MEDICINE USAGE PATTERNS IN A DISTRICT HOSPITAL:

A THERAPEUTIC BUDGET MODEL APPROACH

PART 2

M.J. EKSTEEN

MEDICINE USAGE PATTERNS IN A DISTRICT HOSPITAL: A THERAPEUTIC BUDGET MODEL APPROACH

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November 2008

Potchefstroom

"If the Lord does not build the house,

the work of the builders is useless..."

Psalm 127:1 (Today's English version, The Good News Bible)

"I have the strength to face all conditions by the power that Christ gives me."

Philippians 4:13 (Today's English version, The Good News Bible)

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NORTH WEST PROVINCE

DEPARTMENT OF HEALTH

PROCUREMENT CARD | **Stock code:**

Product Generic Name: | **Min:**

Strength and dosage form: | **Pack size:** | **Max:**

Order							Back order				
Date	Order number	Quantity ordered	Date received	Invoice number	Quantity received	Unit Price	Quantity on back order	Back Order Receipt Date	Back order Invoice number	Quantity received	Remarks

Appendix A.1: Procurement card

Generic name:											Code:
Order							Back order				
Date	Order number	Quantity ordered	Date received	Invoice number	Quantity received	Unit Price	Quantity on back order	Back Order Receipt Date	Back order Invoice number	Quantity received	Remarks

Appendix A.2: Approval letter – Thusong/GDLR hospital complex

North West Province

HEALTH
Department:
Health
NORTH WEST PROVINCE

Thusong GDLR Hospital Complex

Thusong Hospital
Private Bag x6
Itsoseng, 2744
Tel: 018-338 2231/ 2232 / 2238 / 2418
Fax: 018 338-2921
Kncholo@nwpg.gov.za

Central District

General De La Rey Hospital
Private Bag x12025
Thabo Mbeki Street, 2740
Tel: 018-632 3041/ 3025 / 3042
Fax: 018 632-4270
jmusonda@nwpg.gov.za

Ref: JMM20/06-1

20 June 2007

Ms Mariet Eksteen
School of Pharmacy
Faculty of Health Sciences
Northwest University
Potchefstroom 2520

Dear Madam,

MEDICINE USAGE CONTROL IN A DISTRICT HOSPITAL STUDY

1. I wish to acknowledge receipt of your formal request through Mr George John.

2. It is my pleasure to inform you that hospital management has no objection to your study being conducted in Thusong Hospital.

3. The above is on the condition that you first obtain permission from the Head, Department of Health Northwest Province, as facilitated by Ms Shirley Malakane of Departmental Research Committee.

4. I wish you all the best in your endeavors.

Sincerely yours

Dr John Musonda
BSc., MBChB (Zambia), MSc Pharmacology (Bradford. UK), MBA (Potch, RSA),
M.Med. Fam. Med. (Pret., RSA)
Clinical Manager/CMO
Family Physician

Appendix A.3: Approval letter – Directorate: Policy, Planning & Research

HEALTH

DEPARTMENT:
HEALTH
NORTH WEST PROVINCE

2nd Floor Tirelo Building
Dr Albert Luthuli Drive
Mafikeng, 2745
Private Bag X2068
MMABATHO, 2735

Directorate: Policy, Planning & Research

Enq: S.Malakane
Tel: (018) 387 5747/6
Tel: (018) 387 5629
Fax: (018) 387 5617
smalakane@nwpg.gov.za

To: Ms M.J Eksteen
North West University (Potchefstroom Campus)

From: Mr K .Rabanye
Director: Policy, Planning & Research
North West Department of Health

Date: 1st October 2007

Subject: Approval for Research Project: **Medicine usage control in a District Hospital: A therapeutic budget model approach**

Approval is granted to conduct the above study in Central District, North West Province. Kindly make relevant arrangements with the management for suitable dates and times. The NWDoH will be furnished with final research report before publication by

MJEksteen ..... 30 September 2008

M.J Eksteen **Submission date for the final report**

With kind regards

.....
K.Rabanye (Mr)
Director: Policy, Planning & Research
North West Dept of Health

Appendix A.4: Ethical committee approval letter –

North-West University



NORTH-WEST UNIVERSITY
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NOORDWES-UNIVERSITEIT

Private Bag X6001, Potchefstroom
South Africa 2520

Tel: (018) 299-4900
Faks: (018) 299-4910
Web: http://www.nwu.ac.za

Ethics Committee
Tel +27 18 299 1366
Fax +27 18 297 5308
Email Ethics@nwu.ac.za

28 August 2007

Dear Mr G John *(project leader)*

ETHICS APPROVAL OF PROJECT

The North-West University Ethics Committee (NWU-EC) hereby approves your project as indicated below. This implies that the NWU-EC grants its permission that, provided the special conditions specified below are met and pending any other authorisation that may be necessary, the project may be initiated, using the ethics number below.

Project title: Medicine usage control in a district hospital: A therapeutic budget model approach

Ethics number:

N	W	U	-	0	0	0	1	7	-	0	7	-	A	7
Institution				Project Number						Year			Status	

Status: S = Submission; R = Re-Submission; P = Provisional Authorisation; A = Authorisation

Approval date: 13 August 2007 **Expiry date**: 13 August 2012

Special conditions of the approval (if any):

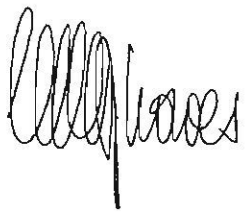
General conditions:

While this ethics approval is subject to all declarations, undertakings and agreements incorporated and signed in the application form, please note the following:

- *The project leader (principle investigator) must report in the prescribed format to the NWU-EC:*
  - *annually (or as otherwise requested) on the progress of the project,*
  - *without any delay in case of any adverse event (or any matter that interrupts sound ethical principles) during the course of the project.*
- *The approval applies strictly to the protocol as stipulated in the application form. Would any changes to the protocol be deemed necessary during the course of the project, the project leader must apply for approval of these changes at the NWU-EC. Would there be deviated from the project protocol without the necessary approval of such changes, the ethics approval is immediately and automatically forfeited.*
- *The date of approval indicates the first date that the project may be started. Would the project have to continue after the expiry date, a new application must be made to the NWU-EC and new approval received before or on the expiry date.*
- *In the interest of ethical responsibility the NWU-EC retains the right to:*
  - *request access to any information or data at any time during the course or after completion of the project;*
  - *withdraw or postpone approval if:*
    - *any unethical principles or practices of the project are revealed or suspected,*
    - *it becomes apparent that any relevant information was withheld from the NWU-EC or that information has been false or misrepresented,*
    - *the required annual report and reporting of adverse events was not done timely and accurately,*
    - *new institutional rules, national legislation or international conventions deem it necessary.*

The Ethics Committee would like to remain at your service as scientist and researcher, and wishes you well with your project. Please do not hesitate to contact the Ethics Committee for any further enquiries or requests for assistance.

Yours sincerely



Prof M Lowes
(chair NWU Ethics Committee)

MEDICINE USAGE SURVEY FORM (INPATIENTS)

PIN number: _____

A. GENERAL INFORMATION

1. **Gender**

Male	Female

2. **Date of birth**

Y	Y	Y	Y	M	M	D	D

3. **Demography of patient**

Type	X		X
Inpatient – Maternity ward		Outpatient – Acute	
Inpatient – Pediatric ward		Outpatient – Chronic	
Inpatient – Male surgical ward		HIV/AIDS	
Inpatient – Female surgical ward		TB	

4. **Duration of stay**

Date of admission	
Date of discharge	

5. **Classification of stay**

Private	Hospital	Psychiatric

6. **Frequency of visits** (in past 6 months)

Outpatient	
Inpatient	

B. STOCK / MEDICINE SUPPLY

7. **Prescription / consultation outcome**

Was medicine supplied to the patient?

Yes	No

If Yes, please complete in the following details *(see page 3 of survey form)*

If no medicine was supply then check the appropriate category

No	Category	X
01	No medicine given (advice only)	
02	No medicine given and referred	
03	No medicine stock	
04	Medicine given and referred (special case)	
05	Other	

If Other, please specify _____

8. Prescription analysis

8.1 Medicine prescribed by

Doctor	Nurse	Pharmacist

8.2 Was the medicine prescribed according to the EDL?

Yes	No

8.3 Is the maximum number of prescribed items per prescription exceeded based on EDL/GPP?

Yes	No

8.4 Discharge instructions including treatment:

_____

_____

_____

8.5 What is the follow-up plan?

_____

9. Prescription / consultation outcome **Date of prescription:** _____

No	Medicine prescribed (Name + strength)	Therapeutic code for medicine	Indication	ICD-10 code for disease	Dosage form	Quantity	Dosage regimen	Duration	Cost
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									

MEDICINE USAGE SURVEY FORM (OUTPATIENTS)

PIN Number: _____

A. GENERAL INFORMATION

1. **Gender**

Male	Female

2. **Date of birth**

Y	Y	Y	Y	M	M	D	D

3. **Demography of patient**

Type	X
Outpatient – Acute	
Outpatient – Chronic	
HIV/AIDS	
TB	

4. **Frequency of visits** (in past 6 months)

Outpatient	
Inpatient	

5. **Immunizations**

Which of the following immunizations did the patient receive?

No	Type of vaccine	X
01	Bacillus Calmette Guerin (BCG)	
02	Oral Polio Vaccine (OPV)	
03	Diphtheria, Pertussis & Tetanus (DPT)	
04	Diphtherai & Tetanus (DT)	
05	Hepatitis B (Hep B)	
06	Influenza (Hi B)	
07	Tetanus toxoid (TT)	
08	Rubella	
09	Rabies	
10	Measles	
11	Others	
12	None of the above	

If Others, please specify _____

_____

B. STOCK / MEDICINE SUPPLY

6. Prescription / consultation outcome

Was medicine supplied to the patient?

Yes	No

If Yes, please complete in the following details *(see next page)*

If no medicine was supply then check the appropriate category

No	Category	X
01	No medicine given (advice only)	
02	No medicine given and referred	
03	No medicine stock	
04	Medicine given and referred (special case)	
05	Other	

If Other, please specify _____

_____

7. Prescription analysis

7.1 Medicine prescribed by

Doctor	Nurse	Pharmacist

7.2 Medicine dispensed by

Doctor	Nurse	Pharmacist	Assistant	Intern

7.3 Was the medicine prescribed according to the EDL?

Yes	No

9. Prescription / consultation outcome **Date of prescription: _____**

No	Medicine prescribed (Name + strength)	Therapeutic code for medicine	Indication	ICD-10 code for disease	Dosage form	Quantity	Dosage regimen	Duration	Cost
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									

Appendix C.1: Codes for budget groups used in therapeutic budget model

Code	Budget group
1	Anti-infective
2	Cardiovascular agents
3	Dermatological
4	Endocrine
5	Functional
6	Gastrolyte
7	Pain reliever
8	Immunological
9	Respiratory agents
10	Uro-genital drug
11	Miscellaneous

Appendix C.2: Codes for pharmacological groups used in therapeutic budget model

Code	Pharmacological group	Code	Pharmacological group
101	Antibacterial (penicillins)	306	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays
102	Anti-infective (aminoglycosides)	307	Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids
103	Anti-infective (cephalosporins)	308	Solvents, fixatives, galencials, oils, powders & crystals
104	Antibacterial (chloramphenicol, erythromycin)	309	Eye preparations (anti-infective)
105	Antiviral	310	Eye preparations (local anesthetic)
106	Topical anti-infective	311	Eye preparations (anti-allergic & anti-inflammatory including corticosteroid & decongestants)
107	Antimalaria	312	Eye preparations (miotics & antiglaucoma)
108	Antihelminthic	313	Eye preparations (mydriatics)
109	Antituberculosis	314	Eye preparations (other)
110	Antifungal (oral/injection)	315	Ear and nose preparations
111	Cancer chemotherapy	316	Corticosteroids for topical use
112	Others	317	Others
201	Anti-angina	401	Contraceptive hormones & other contraceptives
202	Antihypertensive	402	Contraceptive (barrier methods)
203	Congestive heart failure drug	403	Contraceptive (intra-uterine)
204	Antithrombotic and anticoagulant	404	Contraceptive (injectable)
205	Drugs affecting the blood	405	Contraceptive (oral)
206	Hypolipidaemic agent	406	Hormones, androgen, oestrogen & progesterone
207	Vasoconstrictor	407	Antidiabetic agents (injection)
208	Others	408	Antidiabetic agents (oral)
209	Special requests	409	Antihypoglycaemic agents
301	Antifungal (topical)	410	Diagnostic agents
302	Antiseptic, antiviral, keratoplastic & keratolytic agents	411	Oxytoxins and other obstetric drugs
303	Antipruritic & anti-inflammatory agent	412	Thyroid and parathyroid preparations
304	Keratoplastic & keratolytic agent	413	Hormones (others)
305	Scabicides & pediculocides	414	Corticosteroids for systemic use (oral/injection)

Appendix C.2: Codes for pharmacological groups used in therapeutic budget mode (continue)

Code	Pharmacological group	Code	Pharmacological group
415	Hormone inhibitor and cytosatic	614	Mouthwash & throat preparations
501	Anti-epileptic	615	Electrolyte and acid-base distrubance (oral)
502	Antiparkinsonism	616	Electrolyte and acid-bace distrubance (parenteral)
503	Anti-allergic & anaphylaxis	617	Drugs affecting the blood
504	Psychiatric disorders (schizophrenia)	618	Vitamin & mineral
505	Psychotic disorder	619	Feeding and nutritional supplements (oral)
506	Mood disorders	620	Feeding and nutritional supplements (parenteral)
507	Hypnotics / sedative	621	Enzymes & other agents
508	Anesthetic (parenteral)	622	Other gastrolyte
509	Muscle relaxant (central & peripherally acting)	701	Anesthetics (local)
510	Anti-alcoholism drug	702	Anesthetics (general)
511	Antimigraine agent	703	Analgesic, non opioid including NSAIMs, gold and anti-gout preparations
512	Other	704	Anti-inflammatory (corticosteroid)
601	Anti-infective	705	Analgesics (opioid) / narcotic analgesics
602	Antihelmenthic	706	Sedatives, hypnotics and mood disorders
603	Antischisosomal	707	Antimalaria
604	Anti-infective	708	Antimigraine agents
605	Antifungal	709	Others
606	Antacids / anti-ulcers	801	Sera & immunologicals
607	Anti-emetic	802	Vaccines
608	Antihaemmorrhoidal	803	Immunosuppresants
609	Cathartic drugs / laxatives	804	Diagnostic agents
610	Antidiarrhoea & ulcerative colitis	805	Diagnostic agents (radiology)
611	Antispasmodics & anticholinergics	806	Antidotes (general)
612	Constipation, digestants, liver & bile preparations	807	Antidotes (specific)
613	Anti-obesity agents	901	Anti-asthmatic & mucolytics

Appendix C.2: Codes for pharmacological groups used in therapeutic budget mode (continue)

Code	Pharmacological group	Code	Pharmacological group
902	Cough Mixture		
903	Antituberculosis		
904	Decongestants (cold/flu)		
905	Antihistamine for systemic use		
906	Others		
1001	Anti-effective, antibacterial & other		
1002	Antifungal		
1003	Diuretics		
1004	Urinary alkalisers & iron-exchange preparations		
1005	Urinary antiseptics		
1006	Others		
1101	Dialysis fluids		
1102	Cryogenic products / aids		
1103	Cleaning fluids		

Appendix C.3: Therapeutic budget model

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
1	Anti-infective	01	Antibacterial (penicillins)	Amoxycillin Caps 250mg 15's	1	0	1	0	0	1	2
				Amoxycillin Caps 250mg 100's	1	0	1	0	0	2	2
				Amoxycillin Caps 250mg 500's	1	0	1	0	0	3	2
				Amoxycillin Caps 500mg 15's	1	0	1	0	0	4	2
				Amoxycillin Susp 125mg/5ml 100ml	1	0	1	0	0	5	2
				Amoxycillin Susp 250mg/5ml 100ml	1	0	1	0	0	6	2
				Amoxycillin with Clavulanic acid Inj 500mg/100mg 0.6g	1	0	1	0	0	7	2
				Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	0	1	0	0	8	2
				Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	0	1	0	0	9	2
				Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15's	1	0	1	0	1	0	2
				Ampicillin Inj 250mg	1	0	1	0	1	1	2
				Ampicillin Inj 500mg	1	0	1	0	1	2	2
				Azitromycin Tabs 500mg 3's	1	0	1	0	1	3	2
				Benzathine Penicillin 1.2Mu Vials	1	0	1	0	1	4	2
				Benzathine Penicillin Co. 600 000iu Vials	1	0	1	0	1	5	2
				Benzathine Penicillin Co.Single dose 120 000iu Vials	1	0	1	0	1	6	2
				Benzathine Penicillin G Inj. 2.4Mu Vials	1	0	1	0	1	7	2
				Benzylpenicillin G Inj 1Mu 50's	1	0	1	0	1	8	2
				Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	1	0	1	0	1	9	2
				Ciprofloxacin Tabs 500mg 10's	1	0	1	0	2	0	2
				Clarithromycin Inj 500mg	1	0	1	0	2	1	2
				Clarithromycin Tabs 500mg 14's	1	0	1	0	2	2	2
				Clindamycin Caps 150mg 100's	1	0	1	0	2	3	2
				Clindamycin Inj 600mg/4ml	1	0	1	0	2	4	2
				Cloxacillin IV Inj 500mg	1	0	1	0	2	5	2
				Co-Trimoxazole for IV Infus 480mg 5ml	1	0	1	0	2	6	2
				Flucloxacillin Caps 250mg 100's	1	0	1	0	2	7	2
				Flucloxacillin Caps 250mg 20's	1	0	1	0	2	8	2
				Flucloxacillin Susp 125mg 100ml	1	0	1	0	2	9	2
				Fluconazole Caps 50mg 14's	1	0	1	0	3	0	2
				Fluconazole Caps 200mg 28's	1	0	1	0	3	1	2
				Fluconazole Inj for IV Infus 2mg/ml 100ml	1	0	1	0	3	2	2
				Fluconazole Susp 50mg/5ml 35ml	1	0	1	0	5	6	2
				Fluconazole Tabs 200mg 28's	1	0	1	0	3	3	2
				Fusidate Sodium Inj 500mg	1	0	1	0	3	4	2
				Gentamycin 0.5g methylmethacrylate 33.8g	1	0	1	0	3	5	2
				Gentamycin Beads 4.5g 30's	1	0	1	0	3	6	2
				Gentamicin Inj 40mg/ml 1ml	1	0	1	0	3	7	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
1	Anti-infective	01	Antibacterial (penicillins)	Gentamicin Inj 80mg/2ml 2ml	1	0	1	0	3	8	2
				Imipenem 500mg & Cilistatin 500mg Inj	1	0	1	0	3	9	2
				Ketoconazole Tabs 200mg 30's	1	0	1	0	4	0	2
				Nalidixic Acid Susp 250mg/ml 100ml	1	0	1	0	4	1	2
				Nalidixic Acid Tabs 500mg 100's	1	0	1	0	4	2	2
				Nitrofuradantin Susp 100ml	1	0	1	0	4	3	2
				Nitrofurantoin Caps 50mg 50's	1	0	1	0	4	4	2
				Nitrofurantoin Caps 100mg 30's	1	0	1	0	5	5	2
				Nitrofurantoin Caps 100mg 50's	1	0	1	0	4	5	2
				Ofloxacin Tabs 200mg 10's	1	0	1	0	4	6	2
				Ofloxacin Tabs 400mg 100's	1	0	1	0	4	7	2
				Phenoxymethyl Penicillin Susp 125mg/5ml 100ml	1	0	1	0	4	8	2
				Phenoxymethyl Penicillin Susp 250mg/5ml 100ml	1	0	1	0	4	9	2
				Phenoxymethyl Penicillin Tabs 250mg 20's	1	0	1	0	5	0	2
				Phenoxymethyl Penicillin Tabs 250mg 100's	1	0	1	0	5	1	2
				Piperacillin Inj 2g	1	0	1	0	5	2	2
				Piperacillin Inj 4g	1	0	1	0	5	3	2
				Procaine Penicillin Inj 300mg/ml 10ml	1	0	1	0	5	4	2
		02	Anti-infective (aminoglycoside)	Amikacin Inj 100mg/2ml 2ml	1	0	2	0	0	1	2
				Amikacin Inj 500mg/2ml 2ml	1	0	2	0	0	2	2
				Kanamycin Sulphate Inj 1g 3ml	1	0	2	0	0	3	2
				Tobramycin Eye Drops 3mg/ml 5ml	1	0	2	0	0	4	2
		03	Anti-infective (cephalosporins)	Cefazolin Inj 500mg	1	0	3	0	0	1	2
				Cefepime Inj 500mg	1	0	3	0	0	2	2
				Cefepime Inj 1g	1	0	3	0	0	3	2
				Cefotaxime Inj 500mg	1	0	3	0	0	4	2
				Cefotaxime Inj 1g/15ml	1	0	3	0	0	5	2
				Cefoxitin Inj 1g	1	0	3	0	0	6	2
				Ceftazidime Inj 500mg	1	0	3	0	0	7	2
				Ceftazidime Inj 1g	1	0	3	0	0	8	2
				Ceftriaxone IM Inj 250mg	1	0	3	0	0	9	2
				Ceftriaxone Inj 1g	1	0	3	0	1	0	2
				Cefuroxime Inj 250mg	1	0	3	0	1	1	2
				Cefuroxime Inj 750mg	1	0	3	0	1	2	2
				Cefuroxime Susp 125mg/5ml 100ml	1	0	3	0	1	3	2
				Cefuroxime Tabs 500mg 10's	1	0	3	0	1	4	2
				Cephalexin Caps 250mg 100's	1	0	3	0	1	5	2
				Cephalexin Susp 125mg/5ml 100ml	1	0	3	0	1	6	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
1	Anti-infective	03	Anti-infective (cephalosporins)	Cephalexin Susp 250mg/5ml 100ml	1	0	3	0	1	7	2
		04	Antibacterial (chloramphenicol, erythromycin)	Chloramphenicol Inj 1g	1	0	4	0	0	1	2
				Chloramphenicol Caps 250mg 100's	1	0	4	0	0	2	2
				Ciprofloxacin Tabs 500mg 10's ***(see antibacterials)***							
				Co-trimoxazole Tabs 480mg 20's	1	0	4	0	0	3	2
				Co-trimoxazole Tabs 480mg 100's	1	0	4	0	0	4	2
				Co-trimoxazole Tabs 400mg 1000's	1	0	4	0	0	5	2
				Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56's	1	0	4	0	0	6	2
				Co-trimoxazole Susp 200/40mg/5ml 50ml	1	0	4	0	0	7	2
				Co-trimoxazole Susp 200/40mg/5ml 100ml	1	0	4	0	0	8	2
				Doxycycline Caps 100mg 14's	1	0	4	0	0	9	2
				Doxycycline Caps 100mg 100's	1	0	4	0	1	0	2
				Erythromycin Susp 125mg/5ml 100ml	1	0	4	0	1	1	2
				Erythromycin Caps 250mg 100's	1	0	4	0	1	2	2
				Erythromycin IV Inj 1g	1	0	4	0	1	3	2
				Erythromycin Tabs 250mg 20's	1	0	4	0	1	4	2
				Erythromycin Tabs 250mg 100's	1	0	4	0	1	5	2
				Erythromycin Tabs 250mg 56's	1	0	4	0	1	6	2
				Metronidazole IV Inj 500mg/ml 100ml	1	0	4	0	1	7	2
				Metronidazole Supps 500mg 10's	1	0	4	0	1	8	2
				Metronidazole Supps 1g 10's	1	0	4	0	1	9	2
				Metronidazole Tabs 200mg 10's	1	0	4	0	2	5	2
				Metronidazole Tabs 200mg 21's	1	0	4	0	2	0	2
				Metronidazole Tabs 200mg 250's	1	0	4	0	2	1	2
				Metronidazole Susp 200mg/5ml 50ml	1	0	4	0	2	2	2
				Metronidazole Susp 200mg/5ml 100ml	1	0	4	0	2	3	2
				Spectinomycin Inj 400mg/ml 2g 5ml	1	0	4	0	2	4	2
		05	Antiviral	Abacavir Tabs 300mg 60's	1	0	5	0	0	1	2
				Abacavir Sol 120mg/ml 240ml	1	0	5	0	0	2	2
				Acyclovir Cream 5% 2g	1	0	5	0	0	3	2
				Acyclovir Inj 250mg	1	0	5	0	0	4	2
				Acyclovir Sol 200mg/5ml 125ml	1	0	5	0	0	5	2
				Amantadine Caps 100mg 20's ***(see antiparkinsonism)***							
				Didanosine Syr 10ml	1	0	5	0	0	6	2
				Didanosine Tabs 25mg 60's	1	0	5	0	0	7	2
				Didanosine Tabs 50mg 60's	1	0	5	0	0	8	2
				Didanosine Tabs 100mg 60's	1	0	5	0	0	9	2
				Didanosine Tabs 150mg 60's	1	0	5	0	1	0	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
1	Anti-infective	05	Antiviral	Efavirenz Caps 50mg 30's	1	0	5	0	1	1	2
				Efavirenz Caps 200mg 90's	1	0	5	0	1	2	2
				Efavirenz Caps 600mg 30's	1	0	5	0	1	3	2
				Ganciclovir Inj 500mg	1	0	5	0	1	4	2
				Indinavir Caps 400mg 180's	1	0	5	0	1	5	2
				Lamivudine Oral Sol 10mg/ml 240ml	1	0	5	0	1	6	2
				Lamivudine Tabs 150mg 60's	1	0	5	0	1	7	2
				Lopinavir & RitonavirCaps 133/33 90's	1	0	5	0	1	8	2
				Lopinavir Syr 60ml	1	0	5	0	1	9	2
				Nevirapine Susp 50mg/5ml 240ml	1	0	5	0	2	0	2
				Nevirapine Tabs 200mg 60's	1	0	5	0	2	1	2
				Ritonavir Caps 100mg 84's	1	0	5	0	2	2	2
				Ritonavir Oral Solution 80mg/ml 90ml	1	0	5	0	2	3	2
				Saquinavir Caps 200mg 270's	1	0	5	0	2	4	2
				Stavudine Caps 15mg 60's	1	0	5	0	2	5	2
				Stavudine Caps 20mg 60's	1	0	5	0	2	6	2
				Stavudine D4t Caps 30mg 60's	1	0	5	0	2	7	2
				Stavudine D4t Caps 40mg 60's	1	0	5	0	2	8	2
				Stavudine D4t Sol 200ml	1	0	5	0	2	9	2
				Valaciclovir Tabs 500mg 42's	1	0	5	0	3	0	2
				Zidovudine Caps 100mg 100's	1	0	5	0	3	1	2
				Zidovudine Caps 300mg 60's	1	0	5	0	3	2	2
				Zidovudine Syr 50mg/5ml 200ml	1	0	5	0	3	3	2
		06	Topical anti-infective	***see dermatological***							
		07	Antimalaria	***see pain relievers***							
		08	Antihelminthics	***see gastrointestinal***							
		09	Antituberculosis	***see respiratory group***							
		10	Antifungal oral/injection	Aminoglutethimide Tabs 250mg 100's	1	1	0	0	0	1	2
				Amphotericin B Lozenges 10mg 20's	1	1	0	0	0	2	2
				Amphotericin B Inj 50mg	1	1	0	0	0	3	2
				Griseofulvin Tabs 125mg 100's	1	1	0	0	0	4	2
				Griseofulvin Tabs 500mg 100's	1	1	0	0	0	5	2
				Nystatin Oral Susp 100 000iu 20ml	1	1	0	0	0	6	2
		11	Cancer chemotherapy	Bleomycin Sulphate Inj 15iu/amp	1	1	1	0	0	1	2
				Carboplatin Inj 150mg/15ml	1	1	1	0	0	2	2
				Carboplatin Inj 450mg/45ml	1	1	1	0	0	3	2
				Carmustine Inj 100mg	1	1	1	0	0	4	2
				Chlorambucil Tabs 2mg 25's	1	1	1	0	0	5	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
1	Anti-infective	11	Cancer chemotherapy	Cisplatin Inj 10mg	1	1	1	0	0	6	2
				Cisplatin Inj 50mg	1	1	1	0	0	7	2
				Cytarabine Inj 500mg/25ml	1	1	1	0	0	8	2
				Cyclophosphamide Inj 500mg	1	1	1	0	0	9	2
				Cyclophosphamide Inj 1000mg	1	1	1	0	1	0	2
				Cyclophosphamide Tabs 50mg 50's	1	1	1	0	1	1	2
				Dacarbazine Inj 200mg	1	1	1	0	1	2	2
				Dactinomycin Inj 0.5mg 3ml	1	1	1	0	1	3	2
				Doxorubicin Inj 50mg/25ml	1	1	1	0	1	4	2
				Etoposide Caps 50mg 20's	1	1	1	0	1	5	2
				Etoposide Inj 100mg/5ml	1	1	1	0	1	6	2
				Fludarabine Phosphate Inj 50mg	1	1	1	0	1	7	2
				Flourouracil Inj 500mg 10ml	1	1	1	0	1	8	2
				Flourouracil Oint 5% 20g	1	1	1	0	1	9	2
				Gemcitabine Inj 200mg	1	1	1	0	2	0	2
				Gemcitabine Inj 1g	1	1	1	0	2	1	2
				Hydroxyurea Caps 500mg 100's	1	1	1	0	2	2	2
				Ifosfamide Inj 2 000mg	1	1	1	0	2	3	2
				Melphalan Tabs 2mg 25's	1	1	1	0	2	4	2
				Mesna Inj 400mg	1	1	1	0	2	5	2
				Methotrexate Inj 50mg 2ml	1	1	1	0	2	6	2
				Methotrexate Inj 500mg	1	1	1	0	2	7	2
				Methotrexate Inj 1g	1	1	1	0	2	8	2
				Methotrexate Tabs 2.5mg 100's	1	1	1	0	2	9	2
				Mitomycin Inj 2mg	1	1	1	0	3	0	2
				Mitomycin Inj 10mg	1	1	1	0	3	1	2
				Mitozantrone Inj 2mg/ml 10ml	1	1	1	0	3	2	2
				Paclitaxel Inj 30mg 5ml	1	1	1	0	3	3	2
				Paclitaxel Inj 100mg	1	1	1	0	3	4	2
				Testosterone Cyp Inj 100mg/ml 10ml	1	1	1	0	3	5	2
				Vinblastine Sulphate Inj 10mg	1	1	1	0	3	6	2
				Vincristine Inj 2mg/2ml	1	1	1	0	3	7	2
				Vincristine Sulphate Inj 1mg	1	1	1	0	3	8	2
				Vincristine Sulphate Inj 2mg/2ml 10ml	1	1	1	0	3	9	2
				Vinorelbine Inj 50mg	1	1	1	0	4	0	2
		12	Others	Dapsone Tabs 100mg 100's	1	1	2	0	0	1	2
				Clofazime Caps 100mg 100's	1	1	2	0	0	2	2
				Maintelyte & Dextrose 5% 1000ml	1	1	2	0	0	3	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
1	Anti-infective	12	Others	Maintelyte & Dextrose 10% 1000ml	1	1	2	0	0	4	2
				Neonatal Maintelyte & Dextrose 10% 200ml	1	1	2	0	0	5	2
				Teicoplanin Inj 200mg	1	1	2	0	0	6	2
				Vancomycin Inj 500mg/10ml 10ml	1	1	2	0	0	7	2
2	Cardiovascular agent	01	Anti-angina	Glyceryl Trinitrate SL Tabs 0.5mg 50's	2	0	1	0	0	1	2
				Glyceryl Trinitrate Inj 1mg/ml 10ml	2	0	1	0	0	2	2
				Glyceryl Trinitrate Inj 5mg/ml 5ml	2	0	1	0	0	3	2
				Glyceryl Trinitrate Inj 50mg/ml 10ml	2	0	1	0	0	4	2
				Isosorbide Dinitrate Tabs 5mg 50's	2	0	1	0	0	5	2
				Isosorbide-5-Mononitrate Tabs 20mg 56's	2	0	1	0	0	6	2
				Nitroglycerin Spray 0.4mg	2	0	1	0	0	7	2
				Verapamil HCl 240mg 30's	2	0	1	0	0	8	2
				Verapamil Inj 2.5mg/ml 2ml	2	0	1	0	0	9	2
				Verapamil Tabs 40mg 500's	2	0	1	0	1	0	2
				Verapamil Tabs 80mg 250's	2	0	1	0	1	1	2
		02	Antihypertensive	Amlodipine Besylate Tabs 5mg 30's	2	0	2	0	0	1	2
				Atenolol Inj 0.5mg/ml 10ml	2	0	2	0	0	2	2
				Atenolol Tabs 50mg 28's	2	0	2	0	0	3	2
				Atenolol Tabs 100mg 28's	2	0	2	0	0	4	2
				Carvedilol Tabs 6.25mg 30's	2	0	2	0	0	5	2
				Carvedilol Tabs 25mg 30's	2	0	2	0	0	6	2
				Clonidine Tabs 0.025mg 100's	2	0	2	0	0	7	2
				Dihydralazine Inj 25mg	2	0	2	0	0	8	2
				Diltiazem Tabs 60mg 250's	2	0	2	0	0	9	2
				Enalapril Tabs 5mg 28's	2	0	2	0	1	0	2
				Enalapril Tabs 10mg 28's	2	0	2	0	1	1	2
				Enalapril Tabs 20mg 28's	2	0	2	0	1	2	2
				Esmolol Inj 10mg 10ml	2	0	2	0	1	3	2
				Furosemide Tabs 40mg 28's	2	0	2	0	1	4	2
				Furosemide Tabs 40mg 56's	2	0	2	0	1	5	2
				Furosemide Tabs 40mg 84's	2	0	2	0	1	6	2
				Furosemide Tabs 40mg 250's	2	0	2	0	1	7	2
				Furosemide Tabs 500mg 100's	2	0	2	0	1	8	2
				Furosemide Inj 10mg/ml 2ml	2	0	2	0	1	9	2
				Furosemide Inj 10mg/ml 25ml	2	0	2	0	2	0	2
				Furosemide Oral Sol 10mg/ml 100ml	2	0	2	0	2	1	2
				Hydralazine Tabs 10mg 500's	2	0	2	0	2	2	2
				Hydralazine Tabs 25mg 500's	2	0	2	0	2	3	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
2	Cardiovascular agent	02	Antihypertensive	Hydralazine Tabs 50mg 500's	2	0	2	0	2	4	2
				Hydrochlorothiazide Tabs 25mg 14's	2	0	2	0	2	5	2
				Hydrochlorothiazide Tabs 25mg 28's	2	0	2	0	2	6	2
				Hydrochlorothiazide Tabs 25mg 500's	2	0	2	0	2	7	2
				Indapamide Tabs 2.5mg 30's	2	0	2	0	2	8	2
				Labetalol HCl 5mg/ml 20ml	2	0	2	0	2	9	2
				Mannitol for Irrigation 5% 3 000ml	2	0	2	0	3	0	2
				Mannitol Inj 25% 50ml	2	0	2	0	3	1	2
				Mannitol Inj for IV use 20% 500ml	2	0	2	0	3	2	2
				Methyldopa Tabs 250mg 56's	2	0	2	0	3	3	2
				Methyldopa Tabs 250mg 84's	2	0	2	0	3	4	2
				Methyldopa Tabs 250mg 500's	2	0	2	0	3	5	2
				Nifedipine Caps 5mg 100's	2	0	2	0	3	6	2
				Nifedipine Tabs SR 30mg 28's	2	0	2	0	3	7	2
				Nifedipine Tabs SR 60mg 28's	2	0	2	0	3	8	2
				Nimodipine Inj for IV Infus 10mg/50ml 5ml	2	0	2	0	3	9	2
				Nimodipine Tabs 30mg 100's	2	0	2	0	4	0	2
				Perindopril Tabs 4mg 28's	2	0	2	0	4	1	2
				Prazosin Tabs 1mg 14's	2	0	2	0	4	2	2
				Prazosin Tabs 2mg 100's	2	0	2	0	4	3	2
				Prazosin Tabs 5mg 30's	2	0	2	0	4	4	2
				Propranolol HCl Tabs 10mg 84's	2	0	2	0	4	5	2
				Propranolol HCl Tabs 40mg 56's	2	0	2	0	4	6	2
				Propranolol HCl Tabs 40mg 84's	2	0	2	0	4	7	2
				Propranolol Inj 1mg/ml 1ml	2	0	2	0	4	8	2
				Propranolol Tabs 10mg 60's	2	0	2	0	4	9	2
				Propranolol Tabs 40mg 28's	2	0	2	0	5	0	2
				Reserpine Tabs 0,25mg 14's	2	0	2	0	5	1	2
				Sodium Nitroprusside Inj for IV Infus 100mg	2	0	2	0	5	2	2
				Spironolactone Tabs 25mg 14's	2	0	2	0	5	3	2
				Terazosin Tabs 2mg 28's	2	0	2	0	5	4	2
				Terazosin Tabs 5mg 28's	2	0	2	0	5	5	2
				Valsartan Film Coated Tabs 80mg 28's	2	0	2	0	5	6	2
				Verapamil HCl 240mg 28's ***(See Anti-anginal)***							
				Verapamil Inj 2.5mg/ml 2ml ***(see anti-anginal)***							
				Verapamil Tabs 40mg 500's ***(see anti-anginal)***							
				Verapamil Tabs 80mg 250's ***(see anti-anginal)***							
		03	Congestive heart failure drugs	Carvedilol Tabs 6.25mg 30's ***(see antihypertensive)***							

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
2	Cardiovascular agent	03	Congestive heart failure drugs	Carvedilol Tabs 25mg 30's *(see antihypertensive)*							
				Digoxin Inj 0.25mg/ml 2ml	2	0	3	0	0	1	2
				Digoxin Oral Drops 0.05mg/ml 50ml	2	0	3	0	0	2	2
				Digoxin Tabs 0.0625mg 100's (Paediatric)	2	0	3	0	0	3	2
				Digoxin Tabs 0.25mg 14's	2	0	3	0	0	4	2
				Digoxin Tabs 0.25mg 28's	2	0	3	0	0	5	2
				Digoxin Tabs 0.25mg 500's	2	0	3	0	0	6	2
				Hydrochlorothiazide Tabs 25mg 14's *(see antihypertensives)*							
				Hydrochlorothiazide Tabs 25mg 28's *(see antihypertensives)*							
				Hydrochlorothiazide Tabs 25mg 500's *(see antihypertensives)*							
				Furosemide Tabs 40mg 28's *(see antihypertensive)*							
				Furosemide Tabs 40mg 500's *(see antihypertensive)*							
				Furosemide Tabs 40mg 1000's *(see antihypertensive)*							
				Furosemide Tabs 500mg 100's *(see antihypertensive)*							
				Furosemide Inj 10mg/ml 2ml *(see antihypertensive)*							
				Furosemide Inj 10mg/ml 25ml *(see antihypertensive)*							
				Furosemide Oral Sol 10mg/ml 100ml *(see antihypertensive)*							
				Reserpine Tabs 0.25mg 14's *(see antihypertensives)*							
				Reserpine Tabs 0.25mg 28's *(see antihypertensives)*							
		04	Antithrombotic and anticoagulant	Aspirin Codeine Soluble Tabs 500's *(see anti-inflammatory)*							
				Aspirin Soluble Tabs 300mg 24's *(see anti-inflammatory)*							
				Aspirin Soluble Tabs 300mg 1000's *(see anti-inflammaroty)*							
				Clopidogrel Tabs 75mg 28's	2	0	4	0	0	1	2
				Dipyridamole Retard Caps 200mg 60's	2	0	4	0	0	2	2
				Enoxaparin Prefilled Syr SC 40mg/0.4ml	2	0	4	0	0	3	2
				Haemosolvate Factor 8 500Iu 10ml	2	0	4	0	0	4	2
				Haemosolvate Factor 9 500Iu 10ml	2	0	4	0	0	5	2
				Balanced Heparin 1250Iu/ml	2	0	4	0	0	6	2
				Heparin IV Inj 1 000Iu/ml 5ml	2	0	4	0	0	7	2
				HeparinIV Inj 5 000Iu/ml 5ml	2	0	4	0	0	8	2
				Heparin IV Inj 25 000Iu/ml 5ml	2	0	4	0	0	9	2
				Metalyse Inj 50mg	2	0	4	0	1	0	2
				Streptokinase Inj 1 500 000Iu	2	0	4	0	1	1	2
				Tranexamic Acid Inj 100mg/ml 5ml	2	0	4	0	1	2	2
				Tranexamic Acid Tabs 500mg 60's	2	0	4	0	1	3	2
				Warfarin Sodium Tabs 5mg 14's	2	0	4	0	1	7	2
				Warfarin Sodium Tabs 5mg 28's	2	0	4	0	1	4	2
				Warfarin Sodium Tabs 5mg 42's	2	0	4	0	1	5	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
2	Cardiovascular agent	04	Antithrombotic and anticoagulant	Warfarin Sodium Tabs 5mg 49's	2	0	4	0	1	6	2
		05	Drugs affecting the blood	Albumin Sol 20% 50ml	2	0	5	0	0	1	2
				Albumin Sol 20% 100ml	2	0	5	0	0	2	2
				Erythropoietin Inj 4 000Iu/ml 0.4ml	2	0	5	0	0	3	2
				Erythropoietin Inj 10 000Iu	2	0	5	0	0	4	2
				Factor IX Complex 1 000Iu	2	0	5	0	0	5	2
				Ferrous Sulphate Co Tabs eq 65mg Fe 28's	2	0	5	0	0	6	2
				Ferrous Sulphate Co Tabs eq 65mg Fe 84's	2	0	5	0	0	7	2
				Ferrous Sulphate Co Tabs eq 65mg Fe 500's	2	0	5	0	0	8	2
				Ferrous Lactate Drops eq 25mg Fe/ml 10ml	2	0	5	0	0	9	2
				Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	2	0	5	0	1	0	2
				Folic Acid Tabs 5mg 28's	2	0	5	0	1	1	2
				Folic Acid Tabs 5mg 100's	2	0	5	0	1	2	2
				Folic Acid Tabs 5mg 1000's	2	0	5	0	1	3	2
				Hemocue Haemoglobin 201	2	0	5	0	1	4	2
				Iron Polyisomaltore Inj 2ml	2	0	5	0	1	5	2
				Iron(III)-hydroxide sucrose complex eq to Fe Inj 100mg/5ml 5's	2	0	5	0	1	6	2
				Pentoxifylline Tabs 400mg 100's	2	0	5	0	1	7	2
				Phytomenadione Amp 2mg/0.2ml 0.2ml	2	0	5	0	1	8	2
				Phytomenadione IM Inj 10mg/ml 1ml	2	0	5	0	1	9	2
				Protamine Sulphate Inj 10mg/ml 5ml	2	0	5	0	2	0	2
				Recombinant Human Erythropoien 2000Iu	2	0	5	0	2	1	2
				Venofer Inj 100mg 5ml 5's	2	0	5	0	2	2	2
		06	Hypolipidaemic agents	Atorvastatine Tabs 20mg 28's	2	0	6	0	0	1	2
				Bezafibrate Tabs 400mg 30's	2	0	6	0	0	2	2
				Phytomenadione IM Inj 10mg/ml 1ml	2	0	6	0	0	3	2
				Simvastatin Tabs 10mg 28's	2	0	6	0	0	4	2
				Simvastatin Tabs 20mg 28's	2	0	6	0	0	5	2
		07	Vasoconstrictors								
		08	Others	Adenosine Inj 6mg/2ml	2	0	8	0	0	1	2
				Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000 ***(see anaphylaxis)***							
				Amiodarone Inj 50mg/ml 3ml	2	0	8	0	0	2	2
				Amiodarone Tabs 200mg 30's	2	0	8	0	0	3	2
				Dobutamine Inj 12.5mg ml 20ml	2	0	8	0	0	4	2
				Dopamine Inj 40mg/ml 5ml	2	0	8	0	0	5	2
				Propafenone HCl Tabs 150mg 100's	2	0	8	0	0	6	2
				Papaverine Inj 20mg/ml 1ml	2	0	8	0	0	7	2
				Quinidine Sulphate Tabs 300mg 100's	2	0	8	0	0	8	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
2	Cardiovascular agent	08	Others	Rythmodan Retard Tabs 80's	2	0	8	0	0	9	2
				Sotalol Tabs 80mg 100's	2	0	8	0	1	0	2
		09	Special requests								
3	Dermatological	01	Anti-fungal (topical)	Benzoic Acid Co Oint 25mg	3	0	1	0	0	1	2
				Clotrimazole Cream 1% 20g	3	0	1	0	0	2	2
				Fluconazole Susp 50mg/5ml 35ml	3	0	1	0	0	3	2
				Gentian Violet Sol 0.5% 20ml	3	0	1	0	0	4	2
				Itraconazole Caps 100mg 14's	3	0	1	0	0	5	2
				Malic Acid, Benz Acid & Salicyl Acid Cream 50g	3	0	1	0	0	6	2
				Malic Acid, Benz Acid & Salicyl Acid Cream 500g	3	0	1	0	0	7	2
				Malic Acid, Benz Acid, Salicyl Acid & Prop Sol 500ml	3	0	1	0	0	8	2
				Miconazole Nitrate cream 2% 40g	3	0	1	0	0	9	2
				Miconazole Nitrate Oral Gel 2% 30g	3	0	1	0	1	0	2
				Mupirocin Topical Oint 2% 15g	3	0	1	0	1	1	2
				Nystatin Topical Oint 100 000Iu 15g	3	0	1	0	1	2	2
				Nystatin Vaginal Cream 100 000Iu 60g	3	0	1	0	1	3	2
				Nystatin Vaginal Tabs 15's	3	0	1	0	1	4	2
				Selenium Sulphide Shampoo 2.5% 50ml	3	0	1	0	1	5	2
				Terbinafine Cream 1% 15g	3	0	1	0	1	6	2
				Terbinafine HCl Tabs 250mg 14's	3	0	1	0	1	7	2
		02	Antiseptic, antiviral, keratoplastic & keratolytic agents	Cetrimide Chlorhexidine Sol 500ml	3	0	2	0	0	1	2
				Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	3	0	2	0	0	2	2
				Cetrimide Chlorhexidine Gluconate Sol 5000ml	3	0	2	0	0	3	2
				Cetrimide Chlorhexidine Cream 30g	3	0	2	0	0	4	2
				Cetrimide Chlorhexidine Sol 1% in Water 1ml	3	0	2	0	0	5	2
				Chlorhexidine 0.05% 100ml	3	0	2	0	0	6	2
				Chlorhexidine 0.05% 500ml	3	0	2	0	0	7	2
				Chlorhexidine Sol 0.05% 50ml	3	0	2	0	0	8	2
				Chlorhexidine Sol 4% 500ml	3	0	2	0	0	9	2
				Chlorhexidine Sol 4% 20 L	3	0	2	0	1	0	2
				Chlorhexidine Sol 5% 500ml	3	0	2	0	1	1	2
				Chlorhexidine Sol 5% 5000ml	3	0	2	0	1	2	2
				Chlorhexidine Sol 20% 500ml	3	0	2	0	1	3	2
				Chlorhexidine 2% Mouthwash 100ml	3	0	2	0	1	4	2
				Chlorhexidine Gluc Cream 1% 100ml	3	0	2	0	1	5	2
				Chlorhexidine Gluc/alcohol 0.5% 500ml	3	0	2	0	1	6	2
				Chlorhexidine Gluc/alcohol 0.5% 5000ml	3	0	2	0	1	7	2
				Chlorhexidine Gluc/alcohol 0.5% 20 L	3	0	2	0	1	8	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
3	Dermatological	02	Antiseptic, antiviral, keratoplastic & keratolytic agents	Chlorhexidine in Alcohol 500ml	3	0	2	0	1	9	2
				Coal Tar Shampoo 250ml	3	0	2	0	2	0	2
				Coal Tar Sol 500ml	3	0	2	0	2	1	2
				Hydrocortisone Sodium succ Inj 100mg/2ml 2ml ***(see corticosteroids for systemic use)***							
				Hydrogen Peroxide 10Vol 500ml	3	0	2	0	2	2	2
				Hydrogen Peroxide 20Vol 500ml	3	0	2	0	2	3	2
				Hydrogen Peroxide 20Vol 2500ml	3	0	2	0	2	4	2
				Mercurochrome Sol 1% 20ml	3	0	2	0	2	5	2
				Sodium Hypochloride Sol 500ml	3	0	2	0	2	6	2
				Sodium Hypochloride Sol 5000ml	3	0	2	0	2	7	2
				Podophyllum Resin 25g	3	0	2	0	2	8	2
				Podophyllum Resin Oint 10g	3	0	2	0	2	9	2
				Prednisone Tabs 5mg 100's ***(see corticosteroids for systemic use)***							
				Prednisone Tabs 5mg 500's ***(see corticosteroids for systemic use)***							
				Prednisone Tabs 50mg 500's ***(see corticosteroids for systemic use)***							
				Potassium Permanganate Powder 500g	3	0	2	0	3	0	2
				Salicylic Acid Powder 500g	3	0	2	0	3	1	2
				Silver Sulphadiazine Cream 50g	3	0	2	0	3	2	2
				Silver Sulphadiazine Cream 500g	3	0	2	0	3	3	2
		03	Antipruritic & anti-inflammatory agents	Acitretin Caps 10mg	3	0	3	0	0	1	2
				Acitretin Caps 25mg	3	0	3	0	0	2	2
				Calamine Lotion 100ml	3	0	3	0	0	3	2
				Coal Tar Shampoo 250ml ***(see antiseptic)***							
				Coal Tar Sol 500ml ***(see antiseptic)***							
				Ethyl Chloride Spray 100ml ***(see anaesthetic local)***							
				Hydrocortisone Sodium succ Inj 100mg/2ml 2ml ***(see corticosteroids for systemic use)***							
				Hydrocortisone Tabs 10mg 100's	3	0	3	0	0	4	2
				Hydrocortisone Cream 1% 20g	3	0	3	0	0	5	2
				Indomethacin Caps 25mg 28's	3	0	3	0	0	6	2
				Indomethacin Supps 100mg 10's	3	0	3	0	0	7	2
				Piroxicam Caps 10mg 60's	3	0	3	0	0	8	2
				Piroxicam Caps 20mg 28's	3	0	3	0	0	9	2
				Sulfasalazine Tabs 500mg 100's	3	0	3	0	1	0	2
		04	Keratoplastic & keratolytic agents	Benzoyl Peroxide Cream 5% 40g	3	0	4	0	0	1	2
		05	Scabicides & pediculocides	Benzyl Benzoate Emuls 100ml	3	0	5	0	0	1	2
				Monosulfiram Soap 5% 75g	3	0	5	0	0	2	2
				Permethrin Cream 1% 56g	3	0	5	0	0	3	2

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3	Dermatological	05	Scabicides & pediculocides	Permethrin Shampoo 1% 56g	3	0	5	0	0	4	2
				Sulphur Ointment BP 500g	3	0	5	0	0	5	2
		06	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	Aqueous Cream 100g	3	0	6	0	0	1	2
				Aqueous Cream 500g	3	0	6	0	0	2	2
				Arachis Oil, Paradichlorbenzene chlorbut 10ml ***(see ear and nose preparations)***							
				Buffered Cream 500g	3	0	6	0	0	4	2
				Collagenase Clostrid Prot Oint 30g	3	0	6	0	0	5	2
				Emollient Lotion	3	0	6	0	0	6	2
				Emulsifying Oint 500g	3	0	6	0	0	7	2
				Lubricating Jelly Sachet 2.5ml	3	0	6	0	0	8	2
				Plastic wound dressing Aerosol 150g	3	0	6	0	0	9	2
				Soft Paraffin White Oint 500g	3	0	6	0	1	0	2
				Zinc Oint 500g	3	0	6	0	1	1	2
				Zinc & Castor Oil Oint 25g	3	0	6	0	1	2	2
				Zinc Sulphate Grade 500g	3	0	6	0	1	3	2
				Zinc Undecenoate % Undecenoic Add Dusti 50g	3	0	6	0	1	4	2
				Zinc Undecenoate Oint 25g	3	0	6	0	1	5	2
		07	Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	Eusol Sol 500ml	3	0	7	0	0	1	2
				Formaldehyde Sol 2500ml	3	0	7	0	0	2	2
				Formaldehyde Sol 10% 500ml	3	0	7	0	0	3	2
				Formaldehyde Sol 25% In Saline 1ml	3	0	7	0	0	4	2
				Gluteraldehyde Sol 2% 1000ml	3	0	7	0	0	5	2
				Gluteraldehyde Sol 2% 5000ml	3	0	7	0	0	6	2
				Meglumine Amidotrizoate & Sodium Amidotrizoate Inj 100ml	3	0	7	0	0	7	2
				Meglumine Diatrizoate & Sodium Inj 76% 20ml	3	0	7	0	0	8	2
				Meglumine Diatrizoate & Sodium Inj 60% 20ml	3	0	7	0	0	9	2
				Meglumine Diatrizoate Inj 30% 250ml	3	0	7	0	1	0	2
				Meglumine Diatrizoate Inj 60% 100ml 10's	3	0	7	0	1	1	2
				Meglumine Iothalamate Inj 60% 50ml	3	0	7	0	1	2	2
				Ophthalmic Irrigation Sol 15ml	3	0	7	0	1	3	2
				Ophthalmic Irrigation Sol 500ml	3	0	7	0	1	4	2
				Organic-N-Chloro Comp 30g	3	0	7	0	1	5	2
				Povidone Iodine & Aserbine 500g	3	0	7	0	1	6	2
				Povidone Iodine in Alcohol 20% 1ml	3	0	7	0	1	7	2
				Povidone Iodine Cream 25g	3	0	7	0	1	8	2
				Povidone Iodine Cream 500g	3	0	7	0	1	9	2
				Povidone Iodine Oint 25g	3	0	7	0	2	0	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
3	Dermatological	07	Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	Povidone Iodine Oint 500g	3	0	7	0	2	1	2
				Povidone Iodine Sol 1000ml	3	0	7	0	2	2	2
				Povidone Iodine Surgical Scrub 0.7-0.9g 1000ml	3	0	7	0	2	3	2
				Povidone Iodine Vaginal Douche 250ml	3	0	7	0	2	4	2
				Sodium Chloride for Irrigation 0.9% 1000ml	3	0	7	0	2	5	2
				Sodium Chloride Inj 5% 200ml	3	0	7	0	2	6	2
				Sodium hypochlorite Sol 1% 500ml	3	0	7	0	2	7	2
				Sodium hypochlorite Sol 1% 5000ml	3	0	7	0	2	8	2
				Sodium Chloride Sterile 0.9% for Irrigation 1000ml	3	0	7	0	2	9	2
				Sterile water for irrigation 1000ml	3	0	7	0	3	0	2
				Sterile water for Irrigation 3000ml	3	0	7	0	3	1	2
				Water for Irrigation 1000ml	3	0	7	0	3	2	2
		08	Solvents, fixatives, galencials, oils, powders & crystals	Aqua Chloroform Conc 500ml	3	0	8	0	0	1	2
				Lanoline Liquid Anhydrous Mineral Oil 3%	3	0	8	0	0	2	2
				Olive Oil B.P. 500ml	3	0	8	0	0	3	2
		09	Eye preparations (anti-infective)	Acyclovir Eye Oint 3% 4.5g	3	0	9	0	0	1	2
				Acyclovir Tabs 200mg 25's	3	0	9	0	0	2	2
				Chloramphenicol Eye Drops 0.5% 10ml	3	0	9	0	0	3	2
				Chloramphenicol Eye Oint 1% 3.5g	3	0	9	0	0	4	2
				Chloramphenicol Eye Oint 2.5mg Applicaps	3	0	9	0	0	5	2
				Chloramphenicol & Dexamethasone Eye Drops 5ml	3	0	9	0	0	6	2
				Gentamicin Eye Drops 3mg/ml 5ml	3	0	9	0	0	7	2
				Neomycin Polymixin Dexamethasone Eye Drops 5ml	3	0	9	0	0	8	2
				Neomycin Polymixin Dexamethasone Eye Oint 3.5g	3	0	9	0	0	9	2
				Neomycin Sulphate Pol Eye Drops 5ml	3	0	9	0	1	0	2
				Ofloxacin Eye Drops 3mg 5ml	3	0	9	0	1	1	2
				Oxytetracycline Polymixin Eye Oint 5g	3	0	9	0	1	2	2
				Polymyxin Sulphate & Zinc Bacitracin Ung 15g	3	0	9	0	1	3	2
		10	Eye preparations (local anesthetic)	Amethocaine Cream 1% 25g	3	1	0	0	0	1	2
				Amethocaine Eye Drops 1% 5ml (minims)	3	1	0	0	0	2	2
				Oxybuprocaine Eye Drops 0.4% 3ml	3	1	0	0	0	3	2
		11	Eye preparations (anti-allergic & anti-inflammatory including corticosteroids & decongestants)	Antazoline Tetrahydrozoline Eye Drops 10ml	3	1	1	0	0	1	2
				Dexamethasone Eye Drops 0.1% 5ml	3	1	1	0	0	2	2
				Fluoromethotone Eye Drops 0.1% 5ml	3	1	1	0	0	3	2
				Flurbiprofen Eye Drops 0.3mg/ml 5ml	3	1	1	0	0	4	2
				Lodoxamide Eye Drops 1mg/ml 10ml	3	1	1	0	0	5	2
				Prednisolone Acetate Eye Drops 1% 5ml	3	1	1	0	0	5	2

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3	Dermatological	11	Eye preparations...cont.	Sodium Cromoglycate Eye Drops 2% 10ml	3	1	1	0	0	7	2
		12	Eye preparations (miotics & anti-glaucoma)	Acetazolamide Tabs 250mg	3	1	2	0	0	1	2
				Apraclonidine Eye Drops 1% 10ml	3	1	2	0	0	2	2
				Betaxolol Eye Drops 5mg/ml 5ml	3	1	2	0	0	3	2
				Bimatoprost Eye Drops 3ml	3	1	2	0	0	4	2
				Dorzolamide Eye Drops 20mg/ml 5ml	3	1	2	0	0	5	2
				Levobunolol Eye Drops 0.5% 5ml	3	1	2	0	0	6	2
				Pilocarpine Eye Drops 1% 15ml	3	1	2	0	0	7	2
				Pilocarpine Eye Drops 2% 15ml	3	1	2	0	0	8	2
				Pilocarpine Eye Gel 4% 5g	3	1	2	0	0	9	2
				Timolol Eye Drops 0.25% 5ml	3	1	2	0	1	0	2
				Timolol Eye Drops 0.5% 5ml	3	1	2	0	1	1	2
		13	Eye preparations (mydriatics)	Atropine Eye Drops 1% minims 0.5ml	3	1	3	0	0	1	2
				Atropine Eye Drops 5ml	3	1	3	0	0	2	2
				Atropine Inj 0.5mg/ml 1ml	3	1	3	0	0	3	2
				Atropine Inj 1mg/ml 1ml	3	1	3	0	0	4	2
				Cyclopentolate Phenylephrine Eye Drops 5ml	3	1	3	0	0	5	2
				Ephedrine Inj 50mg/ml 1ml	3	1	3	0	0	6	2
				Homatropine Hypromellose Eye Drops 2% 5ml	3	1	3	0	0	7	2
				Phenylephrine Eye Drops 10% 7.5ml	3	1	3	0	0	8	2
				Tropicamide Eye Drops 1% 15ml	3	1	3	0	0	9	2
		14	Eye preparations (other)	Dextran 40 10% in sodium chloride 0.9% 50ml	3	1	4	0	0	1	2
				Dextran 70 Hypromellose Eye Drops 15ml	3	1	4	0	0	2	2
				Fluorescein for Inj 2ml	3	1	4	0	0	3	2
				Fluorescein Strips 1mg 100's	3	1	4	0	0	4	2
				Hydroxypropylmethylcellulose Eye Drops 2% 30ml	3	1	4	0	0	5	2
				Hydroxypropylmethylcellulose Sol 20mg/ml 1ml	3	1	4	0	0	6	2
				Lanoline Liquid anhydrous 3.5g	3	1	4	0	0	7	2
				Polyacrylic Acid Tear Fluid 10g	3	1	4	0	0	8	2
				Pyridostigmine Tabs 10mg 50's	3	1	4	0	0	9	2
				Pyridostigmine Tabs 60mg 150's	3	1	4	0	1	0	2
				Sodium Hyaluronate Inj 10mg/ml 0.55ml	3	1	4	0	1	1	2
				Sodium Hyaluronate Inj 30mg/ml 0.5ml	3	1	4	0	1	2	2
		15	Ear and nose preparations	Acetic Acid Ear Drops 1% in normal saline 10ml	3	1	5	0	0	1	2
				Acetic Acid Ear Drops 2% in alcohol	3	1	5	0	0	2	2
				Adrenaline TartInj Eq/adren.1mg/ml 1:1000 *(see anaphylaxis)*							
				Arachis Oil, Paradichlorbenzene chlorbut 10ml	3	1	5	0	1	5	2
				Benzoin Tincture Co 20ml	3	1	5	0	0	4	2

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3	Dermatological	15	Ear and nose preparations	Ciprofloxacin Eye Drops 3mg/ml	3	1	5	0	0	5	2
				Flumethasone Clioquinol Ear Drops 7.5ml	3	1	5	0	0	6	2
				Neomycin Polymixin Hydrocortisone Ear Drops 10ml	3	1	5	0	0	7	2
				Oxymetazoline Nose Drops 0.025% 10ml	3	1	5	0	0	8	2
				Oxymetazoline Nose Drops 0.05% 10ml	3	1	5	0	0	9	2
				Sodium Bicarbonate Inj 4% 50ml	3	1	5	0	1	0	2
				Sodium Bicarbonate Inj 4.2% 200ml	3	1	5	0	1	1	2
				Sodium Bicarbonate Inj 8.5% 50ml	3	1	5	0	1	2	2
				Sodium Bicarbonate Powder 500g	3	1	5	0	1	3	2
				Sodium Chloride Nose Drops 0.9% 10ml	3	1	5	0	1	4	2
		16	Corticosteroids for topical use	Betamethasone In Uea Cream 10% 500g	3	1	6	0	0	1	2
				Betamethasone Valerate Cream 0.1% 15g	3	1	6	0	0	2	2
				Betamethasone Valerate Cream 0.1% 500g	3	1	6	0	0	3	2
				Betamethasone Valerate Oint 0.1% 15g	3	1	6	0	0	4	2
				Betamethasone Valerate Oint 0.1% 500g	3	1	6	0	0	5	2
				Clobetasol Propionate Cream 0.05% 25g	3	1	6	0	0	6	2
				Clobetasol Propionate Oint 25g	3	1	6	0	0	7	2
				Gelatine Pectin & Sodium Carboxymethylcellulose 5g	3	1	6	0	0	8	2
				Methylprednisolone Oint 1mg/g 30g	3	1	6	0	0	9	2
		17	Others	Acetic Acid Glacial 500ml	3	1	7	0	0	1	2
				Betamethasone Valerate Scalp Application 0.1% 30ml	3	1	7	0	0	2	2
				Citric Acid Sol 50% 1ml	3	1	7	0	0	3	2
				Citric Acid Monohydrate Crystals 500g	3	1	7	0	0	4	2
				Co-Trimoxazole Inj for IV Infus 480mg 5ml ***(see antibacterial)***							
				Isotretinoin Caps 10mg 60's	3	1	7	0	0	5	2
				Isotretinoin Caps 20mg 60's	3	1	7	0	0	6	2
				Sun Screen Cream SPF 15 50ml	3	1	7	0	0	7	2
				Sun Screen Cream SPF 30 50ml	3	1	7	0	0	8	2
4	Endocrine	01	Contraceptive hormones & other								
		02	Contraceptive (barrier method)	Condoms	4	0	2	0	0	1	2
		03	Contraceptive (intra-uterine)	Intra-uterine Device 375	4	0	3	0	0	1	2
				Intra-uterine Device Short	4	0	3	0	0	2	2
		04	Contraceptive (injectable)	Medroxyprogesterone Tabs 5mg 30's	4	0	4	0	0	1	2
				Medroxyprogesterone Tabs 100mg 100's	4	0	4	0	0	2	2
				Medroxyprogesterone Tabs 500mg 100's	4	0	4	0	0	3	2
				Medroxyprogesterone Inj 150mg/ml 1ml	4	0	4	0	0	4	2
				Norethisterone Tabs 5mg 150's	4	0	4	0	0	5	2
				Norethisterone Inj 200mg/ml LA 1ml	4	0	4	0	0	6	2

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4	Endocrine	05	Contraceptive (oral)	Cyproterone & Ethelyloestrogen Tabs 2mg/0.035mg 28's	4	0	5	0	0	1	2
				Levonorgestrel Tabs 0.03mg 28's	4	0	5	0	0	2	2
				Levonorgestrel Oestradiol Tabs 28's	4	0	5	0	0	3	2
				Levonorgestrel 0.15mg & Oestreadiol 0.03mg 28's	4	0	5	0	0	4	2
				Levonorgestrel Ethinyl Oestradiol 28's	4	0	5	0	0	5	2
				Norgestrel Oestradiol Tabs 28's	4	0	5	0	0	6	2
		06	Hormone, androgen, oestrogen & progesterone	Cyproterone Inj 100mg/ml	4	0	6	0	0	1	2
				Cyproterone Tabs 50mg 20's	4	0	6	0	0	2	2
				Melenolone Tabs 25mg 50's	4	0	6	0	0	3	2
				Oestradiol Tabs 2mg 28's	4	0	6	0	0	4	2
				Oestradiol TD Patch 3.9mg 4's	4	0	6	0	0	5	2
				Oestrogens Conj Tabs 0.3mg 28's	4	0	6	0	0	6	2
				Oestrogens Conj Tabs 0.625mg 28's	4	0	6	0	0	7	2
				Oestrogens Conj Tabs 1.25mg 500's	4	0	6	0	0	8	2
				Oestrogens Conj Vaginal Cream 42.5g	4	0	6	0	0	9	2
				Oestrogens Conj Medr Tabs 0.625mg 38's	4	0	6	0	1	0	2
				Oestrogens Conj Medr Tabs 1.25mg 38's	4	0	6	0	1	1	2
				Oestrogens Conj Noreth Tabs 28's	4	0	6	0	1	2	2
				Testosterone Cyp Inj 100mg/ml 10ml ***(see cancer chemotherapy)***							
		07	Antidiabetic agents (injection)	Insulin Actraphane Hm 100iu/ml 10ml	4	0	7	0	0	1	2
				Insulin Actraphane Hm 100iu/ml 3ml Penset	4	0	7	0	0	2	2
				Insulin Actrapid Hm 100iu/ml 10ml	4	0	7	0	0	3	2
				Insulin Actrapid Hm 100iu/ml 3ml Penset	4	0	7	0	0	4	2
				Insulin Monotard Hm 10ml	4	0	7	0	0	5	2
				Insulin Protaphane Hm 100iu/ml 3ml Penset	4	0	7	0	0	6	2
				Insulin Needles 1's	4	0	7	0	0	7	2
				Insulin Protaphane Hm 100iu/ml 10ml	4	0	7	0	0	8	2
				Insulin Ultratard Hm 100iu/ml 10ml	4	0	7	0	0	9	2
		08	Antidiabetic agents (oral)	Acarbose Tabs 50mg 90's	4	0	8	0	0	1	2
				Glibenclamide Tabs 5mg 28's	4	0	8	0	0	2	2
				Glibenclamide Tabs 5mg 500's	4	0	8	0	0	3	2
				Gliclazide Tabs 80mg 56's	4	0	8	0	0	4	2
				Gliclazide Tabs 80mg 28's	4	0	8	0	0	5	2
				Gliclazide Tabs 80mg 504's	4	0	8	0	0	6	2
				Gliplzide Tabs 5mg 100's	4	0	8	0	0	7	2
				Metformin Tabs 850mg 56's	4	0	8	0	0	8	2
				Metformin Tabs 850mg 84's	4	0	8	0	0	9	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
4	Endocrine	08	Antidiabetic agents (oral)	Metformin Tabs 850mg 300's	4	0	8	0	1	0	2
		09	Antihypoglycaemic agents	Glucagon Inj 1mg 1ml	4	0	9	0	0	1	2
		10	Diagnostic agents	***see Imunologicals***							
		11	Oxytoxins and other obstetric drugs	Dinoprost Trometamol Inj 5mg/ml 1ml	4	1	1	0	0	1	2
				Dinoprostone Syringe 2mg/3g	4	1	1	0	0	2	2
				Dinoprostone Gel 0.5mg/3g	4	1	1	0	0	3	2
				Dinoprostone Tabs 0.5mg 10's	4	1	1	0	0	4	2
				Ergometrine Inj 0.5ng/ml 1ml	4	1	1	0	0	5	2
				Octreotide Amp 0.1mg/1ml	4	1	1	0	0	6	2
				Oxytocin 5iu/ml	4	1	1	0	0	7	2
				Oxytocin Inj 10iu 1ml	4	1	1	0	0	8	2
				Oxytocin Inj with ergometrine 5iu/0.5mg 1ml	4	1	1	0	0	9	2
		12	Thyriod and parathyroid preparations	Carbimazole Tabs 5mg 100's	4	1	2	0	0	1	2
				Iodine Weak Sol 500ml	4	1	2	0	0	2	2
				Liothyronine Tabs 0.02mg 50's	4	1	2	0	0	3	2
				Somatropin Inj 16iu	4	1	2	0	0	4	2
				Somatropin Inj 18iu	4	1	2	0	0	5	2
				Somatropin Inj 36iu	4	1	2	0	0	6	2
				Thyroxine Sodium Tabs 50µg 100's	4	1	2	0	0	7	2
				Thyroxine Sodium Tabs 100µg 28's	4	1	2	0	0	8	2
		13	Hormones (other)	Alendronate Tabs 10mg 30's	4	1	3	0	0	1	2
				Alfacalcidol Caps 0.25mg 30's	4	1	3	0	0	2	2
				Alfacalcidol Caps 1mg 30's	4	1	3	0	0	3	2
				Alfacalcidol Sol 0.2mg/ml	4	1	3	0	0	4	2
				Clomiphene Tabs 50mg 5's	4	1	3	0	0	5	2
				Chorionic Gonadotropine Inj 5000iu/amp	4	1	3	0	0	6	2
				Danazol Caps 100mg 60's	4	1	3	0	0	7	2
				Danazol Caps 200mg 60's	4	1	3	0	0	8	2
				Desmopressin Sol Intranasal 0.1mg/ml 2.5ml	4	1	3	0	0	9	2
				Desmopressin Tabs 0.1mg 30's	4	1	3	0	1	0	2
				Filgrastim Prefilled Syringe 0.3mg/ml	4	1	3	0	1	1	2
				Flutamide Tabs 250mg 100's	4	1	3	0	1	2	2
				Goserelin Acetate Inj 3.6mg	4	1	3	0	1	3	2
				Goserelin Acetate Inj 10.8mg	4	1	3	0	1	4	2
				Interferon Alpha-2A 3 000 000iu	4	1	3	0	1	5	2
				Ornipressin Inj 5iu 1ml	4	1	3	0	1	6	2
				Tamoxifen Citrate Tabs 20mg 30's	4	1	3	0	1	7	2
				Tamoxifen Citrate Tabs 20mg 250's	4	1	3	0	1	8	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
4	Endocrine	14	Corticosteroids for systemic use (oral/injections)	Adrenocorticotrophic Hormone 40Iu/ml Vial	4	1	4	0	0	1	2
				Betamethasone Inj 4mg/ml 1ml	4	1	4	0	2	0	2
				Betamethasone Syr 0.6mg/5ml 100ml	4	1	4	0	0	2	2
				Betamethasone Tabs 0.5mg 100's	4	1	4	0	0	3	2
				Cortisone Acetate Tabs 25mg 30's	4	1	4	0	0	4	2
				Dexamethasone IM Inj 4mg/ml 1ml	4	1	4	0	0	5	2
				Desamethasone Tabs 0.5mg 100's	4	1	4	0	0	6	2
				Fludrocortisone Acetate Tabs 0.1mg 100's	4	1	4	0	0	7	2
				Hydrocortisone Sodium succ Inj 100mg/2ml 2ml	4	1	4	0	0	8	2
				Methylprednisolone Inj 40mg/ml 1ml	4	1	4	0	0	9	2
				Methylprednisolone Inj 40mg/ml 2ml	4	1	4	0	1	0	2
				Methylprednisolone Sodium Succ Inj 125mg/2ml 2ml	4	1	4	0	1	1	2
				Methylprednisolone Sodium Succ Inj 8ml	4	1	4	0	1	2	2
				Prednisolone Syr 15mg/5ml 50ml	4	1	4	0	1	3	2
				Prednisolone Tabs 5mg 1000's	4	1	4	0	1	4	2
				Prednisolone Sodium Phosphate Enema 20mg/100ml 100ml	4	1	4	0	1	5	2
				Prednisone Tabs 5mg 28's	4	1	4	0	1	6	2
				Prednisone Tabs 5mg 100's	4	1	4	0	1	7	2
				Prednisone Tabs 5mg 500's	4	1	4	0	1	8	2
				Prednisone Tabs 50mg 500's	4	1	4	0	1	9	2
		15	Hormone inhibitors and cytostatics	Anastrazole Tabs 1mg 30's	4	1	5	0	0	1	2
5	Functional	01	Anti-epileptic	Carbamazepine Susp 100mg/5ml 250ml	5	0	1	0	0	1	2
				Carbamazepine CR Tabs 200mg 30's	5	0	1	0	0	2	2
				Carbamazepine CR Tabs 400mg 30's	5	0	1	0	0	3	2
				Clobazam Tabs 10mg 100's	5	0	1	0	0	4	2
				Clonazepam Inj 1mg/ml 1ml	5	0	1	0	0	5	2
				Clonazepam Oral Drops 2.5mg 10ml	5	0	1	0	0	6	2
				Clonazepam Tabs 0.5mg 90's	5	0	1	0	0	7	2
				Clonazepam Tabs 2mg 90's	5	0	1	0	0	8	2
				Ethosuximide Caps 250mg 50's	5	0	1	0	0	9	2
				Ethosuximide Syr 250mg/5ml 200ml	5	0	1	0	1	0	2
				Gabapentin Caps 300mg 100's	5	0	1	0	1	1	2
				Lamotrigine P5 Disp Tabs 100's	5	0	1	0	1	2	2
				Lamotrigine Tabs 25mg 28's	5	0	1	0	4	4	2
				Lamotrigine Tabs 25mg 60's	5	0	1	0	1	3	2
				Lamotrigine Tabs 50mg 60's	5	0	1	0	1	4	2
				Lamotrigine Tabs 100mg 60's	5	0	1	0	1	5	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
5	Functional	01	Anti-epileptic	Lorazepam Inj 4mg/ml 1ml	5	0	1	0	1	6	2
				Lorazepam Tabs 1mg 100's	5	0	1	0	1	7	2
				Lorazepam Tabs 2.5mg 100's	5	0	1	0	1	8	2
				Midazolam Inj 5mg/ml 3ml	5	0	1	0	1	9	2
				Phenobarbitone Tabs 30mg 28's	5	0	1	0	2	0	2
				Phenobarbitone Tabs 30mg 56's	5	0	1	0	2	1	2
				Phenobarbitone Tabs 30mg 84's	5	0	1	0	2	2	2
				Phenobarbitone Tabs 30mg 1000's	5	0	1	0	2	3	2
				Phenobarbitone Inj 200mg/ml 1ml	5	0	1	0	2	4	2
				Phenobarbitone Vit Nicot Syrup 100ml	5	0	1	0	2	5	2
				Phenytoin Caps 100mg 84's	5	0	1	0	2	6	2
				Phenytoin Caps 100mg 1000's	5	0	1	0	2	7	2
				Phenytoin Inj 50mg/ml 5ml	5	0	1	0	2	8	2
				Phenytoin Susp 125mg/5ml 237ml	5	0	1	0	2	9	2
				Phenytoin Infants Chew Tabs 50mg 100's	5	0	1	0	3	0	2
				Sodium Valproate Liqiud Sugar Free 200mg 300ml	5	0	1	0	3	1	2
				Sodium Valproate Tabs 200mg 28's	5	0	1	0	3	2	2
				Sodium Valproate Tabs 500mg 100's	5	0	1	0	3	3	2
				Sodium Valproate Valproic Acid Tabs 333mg 500's	5	0	1	0	3	4	2
				Sodium Valproate Tabs Cr 200mg 100's	5	0	1	0	3	5	2
				Sodium Valproate Tabs Cr 300mg 84's	5	0	1	0	3	6	2
				Sodium Valproate Tabs Cr 500mg 100's	5	0	1	0	3	7	2
				Topiramate Tabs 25mg 25's	5	0	1	0	3	8	2
				Topiramate Tabs 50mg 60's	5	0	1	0	3	9	2
				Topiramate Tabs 100mg 60's	5	0	1	0	4	0	2
				Valproic Acid Caps 150mg 56's	5	0	1	0	4	1	2
				Valproic Acid Caps 300mg 100's	5	0	1	0	4	2	2
				Valproic Acid Caps 500mg 100's	5	0	1	0	4	3	2
		02	Antiparkinsonism	Amantadine Caps 100mg 20's	5	0	2	0	0	1	2
				Bromocriptine Mesylate Tabs 2.5mg 30's	5	0	2	0	0	2	2
				Biperidin Inj 5mg/ml 5ml	5	0	2	0	0	3	2
				Biperidin HCl Tabs 2mg 500's	5	0	2	0	0	4	2
				Cabergoline Tabs 0.5mg 4's	5	0	2	0	0	5	2
				Carbidopa 25mg & Levodopa 100mg Tabs 100's	5	0	2	0	0	6	2
				Carbidopa 25mg & Levodopa 250mg 100's	5	0	2	0	0	7	2
				Levodopa Benzerazide Tabs 200mg/50mg 100's	5	0	2	0	0	8	2
				Pramipexol Tabs 0.25mg 100's	5	0	2	0	0	9	2
				Selegiline HCl Tabs 5mg 30's	5	0	2	0	1	0	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
5	Functional	02	Antiparkinsonism	Trihexyphenidyl Tabs 2mg 100's	5	0	2	0	1	1	2
				Trihexyphenidyl Tabs 5mg 100's	5	0	2	0	1	2	2
		03	Anti-allergics & anaphylaxis	Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	5	0	3	0	0	1	2
				Atropine Inj 0.5mg/ml 1ml	5	0	3	0	0	2	2
				Atropine Inj 1mg/ml 1ml	5	0	3	0	0	3	2
				Chlorpheniramine Syr 2mg/5ml 50ml	5	0	3	0	0	4	2
				Chlorpheniramine Tabs 4mg 1000's	5	0	3	0	0	5	2
				Dexamethasone Inj 4mg/ml 1ml ***(see corticosteroids for systemic use)***							
				Desamethasone Tabs 0.5mg 100's ***(see corticosteroids for systemic use)***							
				Promethazine Inj 25mg/ml 1ml	5	0	3	0	0	6	2
				Promethazine Inj 25mg/ml 2ml	5	0	3	0	0	7	2
				Promethazine Syr 5mg/5ml 100ml	5	0	3	0	0	8	2
				Promethazine Tabs 10mg 500's	5	0	3	0	0	9	2
				Promethazine Tabs 25mg 500's	5	0	3	0	1	0	2
		04	Psychiatric disorder (schizophrenia)	Clothiapine Inj 10mg/ml 4ml	5	0	4	0	0	1	2
				Clothiapine Tabs 40mg 100's	5	0	4	0	0	2	2
				Clozapine Tabs 25mg 100's	5	0	4	0	0	3	2
				Clozapine Tabs 100mg 100's	5	0	4	0	0	4	2
				Flupenthixol Decanoate Inj 20mg/ml 1ml	5	0	4	0	0	5	2
				Flupenthixol Decanoate Inj 40mg/2ml 2ml	5	0	4	0	0	6	2
				Flupenthixol Decanoate Tabs 0.5mg 30's	5	0	4	0	0	7	2
				Flupenthixol Decanoate Tabs 1mg 30's	5	0	4	0	0	8	2
				Fluphenazine Decanoate Inj 25mg/ml 1ml	5	0	4	0	0	9	2
				Pericyazine Tabs 2.5mg 50's	5	0	4	0	1	0	2
				Risperidone Inj 25mg	5	0	4	0	1	1	2
				Risperidone Tabs 0.5mg 30's	5	0	4	0	1	2	2
				Risperidone Tabs 2mg 30's	5	0	4	0	1	3	2
				Risperidone Tabs 3mg 30's	5	0	4	0	1	4	2
				Seroquel Tabs 100mg 90's	5	0	4	0	1	5	2
				Seroquel Tabs 200mg 60's	5	0	4	0	1	6	2
				Zuclopenthixol Acetate Inj 50mg 1ml	5	0	4	0	1	7	2
				Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml	5	0	4	0	1	8	2
		05	Psychotic disorder	Chlorpromazine Inj 25mg/ml 1ml	5	0	5	0	0	1	2
				Chlorpromazine Inj 25mg/ml 2ml	5	0	5	0	0	2	2
				Chlorpromazine Syr 25mg/5ml 100ml	5	0	5	0	0	3	2
				Chlorpromazine Tabs 25mg 28'	5	0	5	0	2	4	2
				Chlorpromazine Tabs 25mg 56's	5	0	5	0	2	5	2
				Chlorpromazine Tabs 25mg 84's	5	0	5	0	0	4	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
5	Functional	05	Psychotic disorder	Chlorpromazine Tabs 50mg 500's	5	0	5	0	0	5	2
				Chlorpromazine Tabs 100mg 500's	5	0	5	0	0	6	2
				Haloperidol Caps 0.5mg 60's	5	0	5	0	0	7	2
				Haloperidol Inj 5mg/ml 1ml	5	0	5	0	0	8	2
				Haloperidol Inj 10mg/ml 2ml	5	0	5	0	0	9	2
				Haloperidol Tabs 1.5mg 100's	5	0	5	0	1	0	2
				Haloperidol Tabs 5mg 14's	5	0	5	0	1	1	2
				Haloperidol Tabs 5mg 56's	5	0	5	0	1	2	2
				Haloperidol Tabs 5mg 500's	5	0	5	0	1	3	2
				Pimozide Tabs 1mg 75's	5	0	5	0	1	4	2
				Pimozide Tabs 4mg 100's	5	0	5	0	1	5	2
				Sulpiride Caps 50mg 100's	5	0	5	0	1	6	2
				Sulpiride Tabs 200mg 50's	5	0	5	0	1	7	2
				Thioridazine Tabs 10mg 100's	5	0	5	0	1	8	2
				Thioridazine Tabs 25mg 500's	5	0	5	0	1	9	2
				Thioridazine Tabs 50mg 500's	5	0	5	0	2	0	2
				Thioridazine Tabs 100mg 500's	5	0	5	0	2	1	2
				Trifluoperazine Dihydrate Tabs 1mg 50's	5	0	5	0	2	2	2
				Trifluoperazine Dihydrate Tabs 5mg 250's	5	0	5	0	2	3	2
		06	Mood disorder	Amitriptyline Tabs 10mg 500's	5	0	6	0	0	1	2
				Amitriptyline Tabs 25mg 28's	5	0	6	0	0	2	2
				Amitriptyline Tabs 25mg 84's	5	0	6	0	0	3	2
				Amitriptyline Tabs 25mg 500's	5	0	6	0	0	4	2
				Aricept Tabs 10mg 28's	5	0	6	0	0	5	2
				Citalopram Hydrobromide Tabs 20mg 30's	5	0	6	0	0	6	2
				Clomipramine Inj 12.5mg/ml 2ml	5	0	6	0	0	7	2
				Clomipramine Tabs 10mg 100's	5	0	6	0	0	8	2
				Clomipramine Tabs 25mg 50's	5	0	6	0	0	9	2
				Dothiepin Caps 25mg 100's	5	0	6	0	1	0	2
				Dothiepin Tabs 75mg 28's	5	0	6	0	1	1	2
				Fluoxetine Caps 20mg 28's	5	0	6	0	1	2	2
				Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	5	0	6	0	1	3	2
				Hudroxyzine Tabs 25mg 100's	5	0	6	0	2	4	2
				Imipramine Tabs 10mg 100's	5	0	6	0	1	4	2
				Imipramine Tabs 25mg 28's	5	0	6	0	1	5	2
				Lithium Carbonate Tabs 250mg 1000's	5	0	6	0	1	6	2
				Lithium Carbonate Tabs 400mg 100's	5	0	6	0	1	7	2
				Maprotiline Tabs 25mg 100's	5	0	6	0	1	8	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
5	Functional	06	Mood disorder	Maprotiline Tabs 75mg 30's	5	0	6	0	1	9	2
				Mianserin Tabs 10mg 90's	5	0	6	0	2	0	2
				Mianserin Tabs 30mg 100's	5	0	6	0	2	1	2
				Venlafaxine Caps 150mg 30's	5	0	6	0	2	2	2
				Venlafaxine Tabs 75mg 30's	5	0	6	0	2	3	2
		07	Hypnotic / sedative	Diazepam Inj 5mg/ml 2ml	5	0	7	0	0	1	2
				Diazepam Tabs 5mg 10's	5	0	7	0	0	8	2
				Diazepam Tabs 5mg 500's	5	0	7	0	0	2	2
				Oxazepam Tabs 10mg 100's	5	0	7	0	0	4	2
				Oxazepam Tabs 15mg 250's	5	0	7	0	0	5	2
				Oxazepam Tabs 30mg 100's	5	0	7	0	0	6	2
				Thiopentone Sodium Inj 0.5g/20ml 20ml	5	0	7	0	0	7	2
		08	Anesthetics (parenteral)	Alfentanil Inj 0.5mg/ml 2ml	5	0	8	0	0	1	2
				Atracurium Inj 50mg/5ml 5ml	5	0	8	0	0	2	2
				Droperidol 2.5mg/ml 2ml	5	0	8	0	0	3	2
				Etilefrine Inj 10mg/ml 1ml	5	0	8	0	0	4	2
				Flumazenil Inj 0.1mg/ml 5ml	5	0	8	0	0	5	2
				Glycopyrrolate Inj 0.2mg/ml 2ml	5	0	8	0	0	6	2
				Mepivacaine Dental Inj 3% 1.8ml	5	0	8	0	0	7	2
				Pancuronium Inj 2mg/ml 2ml	5	0	8	0	0	8	2
				Propofol Inj 10mg/ml 20ml	5	0	8	0	0	9	2
				Rocuronium Inj 50mg 5ml	5	0	8	0	1	0	2
				Ropivacaine Inj 7.5mg/ml 10ml	5	0	8	0	1	1	2
				Sufentanil Citrate Inj 5mg 2ml	5	0	8	0	1	2	2
		09	Muscle relaxant (central & peripherally acting)	Alcuronium Chloride Inj 5mg/ml 2ml	5	0	9	0	0	1	2
				Baclofen Tabs 10mg 30's	5	0	9	0	0	2	2
				Baclofen Tabs 25mg 30's	5	0	9	0	0	3	2
				Botolinum Toxin Type A Inj	5	0	9	0	0	4	2
				Dantrolene Inj 20mg 70ml	5	0	9	0	0	5	2
				Lioresal Intr Amp 10mg/5ml 4's	5	0	9	0	0	6	2
				Naloxone HCl 0.02mg/ml 2ml	5	0	9	0	0	7	2
				Naloxone Inj 0.4mg/ml 1ml	5	0	9	0	0	8	2
				Orphenadrine Tabs 50mg 28's	5	0	9	0	0	9	2
				Orphenadrine Tabs 50mg 56's	5	0	9	0	1	0	2
				Orphenadrine Tabs 50mg 84's	5	0	9	0	1	1	2
				Orphenadrine Tabs 50mg 100's	5	0	9	0	1	2	2
				Suxamethonium Chloride Inj 50mg/ml 2ml	5	0	9	0	1	3	2
				Vecuronium Bromide Inj 2mg/ml 2ml	5	0	9	0	1	4	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
5	Functional	10	Anti-alcoholism drugs	Disulfiram Tabs 400mg 50's	5	1	0	0	0	1	2
				Piracetam Caps 400mg 90's	5	1	0	0	0	2	2
		11	Antimigraine agents	Clonidine Tabs 0.025mg 100's ***(see antihypertensive)***							
				Chloroquine Syr 50ml ***(see antimalaria)***							
				Chloroquine Tabs 150mg 100's ***(see antimalaria)***							
				Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10's	5	1	1	0	0	3	2
				Flunarizine Caps 5mg 60's	5	1	1	0	0	4	2
				Primaquine Tabs 7.5mg 28's	5	1	1	0	0	5	2
		12	Others	Methylphenidate Tabs 10mg 30's	5	1	2	0	0	1	2
6	Gastrolyte	01	Anti-infective	***see anti-infectives (oral/injections)***							
		02	Antihelmenthic	Albendazole Susp 100mg/5ml 20ml	6	0	2	0	0	1	2
				Albendazole Tabs 200mg 2's	6	0	2	0	0	2	2
				Mebendazole Susp 30ml	6	0	2	0	0	3	2
				Mebendazole Tabs 100mg 6's	6	0	2	0	0	4	2
				Niclosamide Tabs 500mg 4's	6	0	2	0	0	5	2
				Piperazine Hydrate Syr 27ml	6	0	2	0	0	6	2
		03	Antischisosomal	Praziquantel Tabs 500mg 100's	6	0	3	0	0	7	2
		04	Anti-effective	***see anti-infectives (oral/injections)***							
		05	Antifungal	***see uro-genital drugs (oral)***							
		06	Antacid / anti-ulcer	Aluminium Hydroxide 250mg & Magnesium Trisillicate 500mg Tabs 96's	6	0	6	0	0	1	2
				Aluminium Hydroxide 250mg & Magnesium Trisillicate 500mg Tabs 500's	6	0	6	0	0	2	2
				Aluminium Hydroxide Susp 350ml	6	0	6	0	0	3	2
				Aluminium Hydroxide & Magnesium Trisillicate Tabs 24's	6	0	6	0	0	4	2
				Cimetidine IV Inj 100mg/ml 2ml	6	0	6	0	0	5	2
				Cimetidine Tabs 200mg 30's	6	0	6	0	0	6	2
				Cimetidine Tabs 400mg 60's	6	0	6	0	0	7	2
				Magnesium Trisillicate Co Mixt 200ml	6	0	6	0	0	8	2
				Misoprostol Tabs 0.2mg 60's	6	0	6	0	0	9	2
				Misoprostol Tabs 0.2mg 120's	6	0	6	0	1	0	2
				Omeprazole Caps 20mg 30's	6	0	6	0	1	7	2
				Pantoprazole IV 40mg 10ml 5's	6	0	6	0	1	1	2
				Ranitidine HCl Tabs 150mg 60's	6	0	6	0	1	2	2
				Ranitidine HCl Tabs 300mg 30's	6	0	6	0	1	3	2
				Ranitidine Inj 25mg/ml 2ml	6	0	6	0	1	4	2
				Sucralfate Susp 1g/5ml 600ml	6	0	6	0	1	5	2
				Sucralfate Tabs 1g 120's	6	0	6	0	1	6	2
		07	Anti-emetic	Cinnarizine Tabs 25mg 100's	6	0	7	0	0	1	2
				Cyclizine Inj 50mg/ml 1ml	6	0	7	0	0	2	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
6	Gastrolyte	07	Anti-emetic	Cyclizine Supps 50mg 6's	6	0	7	0	0	3	2
				Cyclizine Supps 100mg 6's	6	0	7	0	0	4	2
				Cyclizine Tabs 50mg 10's	6	0	7	0	0	5	2
				Cyclizine Tabs 50mg 200's	6	0	7	0	0	6	2
				Domperidone Tabs 10mg 100's	6	0	7	0	0	7	2
				Cinnarizine Tabs 25mg 100's	6	0	7	0	0	8	2
				Metoclopramide Syr 5mg/5ml 50ml	6	0	7	0	0	9	2
				Metoclopramide Tabs 10mg 10's	6	0	7	0	1	6	2
				Metoclopramide Tabs 10mg 15's	6	0	7	0	1	0	2
				Metoclopramide Tabs 10mg 1000's	6	0	7	0	1	1	2
				Odansetron Inj for IV 8mg/4ml 4ml	6	0	7	0	1	2	2
				Odansetron Tabs 4mg 15's	6	0	7	0	1	3	2
				Prochlorperazine Inj 12.5mg/ml 1ml	6	0	7	0	1	4	2
				Prochlorperazine Tabs 5mg 250's	6	0	7	0	1	5	2
		08	Antihaemmorrhoidal	Bismuth Sub Oxi Res Nic Zinc Oint 25g	6	0	8	0	0	1	2
				Bismuth Sub Oxi Res Nic Ainc Supps 10's	6	0	8	0	0	2	2
				Bismuth Subnitrate Iodof Paste 45g	6	0	8	0	0	3	2
				Prednisolone Caproate 1.9mg & Cinchocaine Hydrochloride 5mg/g Oint 15g	6	0	8	0	0	4	2
				Prednisolone Caproate 1.3mg & Cinchocaine Hydrochloride 1mg Supps 12's	6	0	8	0	0	5	2
		09	Cathartic drugs / laxatives	Bisacodyl Supps 10mg 10's	6	0	9	0	0	1	2
				Bisacodyl Tabs 5mg 200's	6	0	9	0	0	2	2
				Cisapride Tabs 10mg	6	0	9	0	0	3	2
				Glycerine 500ml	6	0	9	0	0	4	2
				Glycerine Supps Adult 12's	6	0	9	0	0	5	2
				Glycerine Supps Infant 12's	6	0	9	0	0	6	2
				Lactulose Syr 3.35mg/5ml 150ml	6	0	9	0	0	7	2
				Magnesium Sulphate Inj 50% 2ml	6	0	9	0	0	8	2
				Magnesium Sulphate Crystals 500g	6	0	9	0	0	9	2
				Poly-Ethylene Glycol Isop Spray 100g	6	0	9	0	1	0	2
				Senna Tabs 1000's	6	0	9	0	1	1	2
				Senna Tabs 7.5mg 12's	6	0	9	0	1	2	2
				Senna Tabs 7.5mg 48's	6	0	9	0	1	3	2
				Senna Tabs 200's	6	0	9	0	1	4	2
				Sodium Phosphate Enema Sol 135ml	6	0	9	0	1	5	2
		10	Antidiarrhoea & ulcerative colitis	Half Darrows & Glucose 5% Sol 200ml	6	1	0	0	0	1	2
				Half Darrows & Glucose 5% Sol 500ml	6	1	0	0	0	2	2
				Loperamide Syr 1mg/5ml 50ml	6	1	0	0	0	3	2
				Loperamide Tabs 2mg 6's	6	1	0	0	0	4	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
6	Gastrolyte	10	Antidiarrhoea & ulcerative colitis	Mesalazine Tabs 400mg 90's	6	1	0	0	0	5	2
				Sodium Chlorite Potassium Sodium Citrate Powder 26g 50's	6	1	0	0	0	6	2
		11	Antispasmodics & anticholinergics	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	6	1	1	0	0	1	2
				Hyoscine-N-Butylbromide Inj 50mg/ml	6	1	1	0	0	7	2
				Hyoscine-N-Butylbromide Syr 100ml	6	1	1	0	0	2	2
				Hyoscine-N-Butylbromide Tabs 10mg 10's	6	1	1	0	0	3	2
				Hyoscine-N-Butylbromide Tabs 10mg 15's	6	1	1	0	0	8	2
				Hyoscine-N-Butylbromide Tabs 10mg 500's	6	1	1	0	0	4	2
				Mebeverine Tabs 135mg 100's	6	1	1	0	0	5	2
				Propantheline Tabs 15mg 100's	6	1	1	0	0	6	2
		12	Constipation, digestants, liver & bile preparations	Evacuated Saline Rinse 250ml	6	1	2	0	0	1	2
				Evacuated Saline Rinse 500ml	6	1	2	0	0	2	2
				Evacuated Saline Rinse 1000ml	6	1	2	0	0	3	2
				Liquid Paraffin 200ml	6	1	2	0	0	4	2
				Sennosides A & B Syr 71ml	6	1	2	0	0	5	2
				Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	6	1	2	0	0	6	2
				Ursodeoxycholic Acid Tabs 100mg 180's	6	1	2	0	0	7	2
		13	Anti-obesity agents								
		14	Mouthwash & throat preparations	Benzydamine Sol 22.5mg/15ml 200ml	6	1	4	0	0	1	2
				Sodium Chloride 0.9% Irrigation 3000ml	6	1	4	0	0	2	2
				Thymol Glycerine B.P. Mouth wash 100ml	6	1	4	0	0	3	2
		15	Electrolyte and acid base disturbances (oral)	***see anti-diarrhoea***							
		16	Electrolyte and acid base disturbances (parenteral)	Calcium Folinate Inj 50mg	6	1	6	0	0	1	2
				Calcium Folinate Tabs 15mg	6	1	6	0	0	2	2
				Electrolyte no 2 Sol 1000ml	6	1	6	0	0	3	2
				General Replacement Sol with Glucose 5% 1000ml	6	1	6	0	0	4	2
				Modified Ringer Lactate 1000ml	6	1	6	0	0	5	2
				Potassium Free Neonatal Maintenace 200ml	6	1	6	0	0	6	2
				Potassium Phosphate Monobasic Anhyd Inj 1.09g 10ml	6	1	6	0	0	7	2
				Ringers Lactate 2000ml	6	1	6	0	0	8	2
				Ringers Lactate Sol 200ml	6	1	6	0	0	9	2
				Ringers Lactate Sol 1000ml	6	1	6	0	1	0	2
				Sodium Chloride 0.9% for Irrigation 1000ml	6	1	6	0	1	1	2
				Sodium Bicarbonate Inj 4.2% 200ml ***(see ear and nose preparations)***							
				Sodium Chloride 0.2% & Glucose 5% Inj 200ml	6	1	6	0	1	2	2
				Sodium Chloride 0.45% & Glucose 2.5% 1000ml	6	1	6	0	1	3	2
				Sodium Chloride 0.45% & Glucose 5% Inj 1000ml	6	1	6	0	1	4	2
				Sodium Chloride 0.45% 1000ml	6	1	6	0	1	5	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
6	Gastrolyte	16	Electrolyte and acid base disturbances (parenteral)	Sodium Chloride 0.9% & Glucose 5% 1000ml	6	1	6	0	1	6	2
				Sodium Chloride 0.9% & Glucose 5% Inj 200ml	6	1	6	0	1	7	2
				Sodium Chloride 0.9% Inj 1000ml	6	1	6	0	1	8	2
				Sodium Chloride 0.9% Inj 50ml	6	1	6	0	1	9	2
				Sodium Chloride 0.9% Inj 100ml	6	1	6	0	2	0	2
				Sodium Chloride 0.9% Inj 200ml	6	1	6	0	2	1	2
				Sodium Hyposchloride 500ml	6	1	6	0	2	2	2
				Synthamin 5.5% with added Electrolytes 1000ml	6	1	6	0	2	3	2
				Synthamin 8.5% with added Electrolytes	6	1	6	0	2	4	2
				Synthamin 8.5% without added Electrolytes	6	1	6	0	2	5	2
				Trace Elements & Electrolytes for IV Infus 10ml	6	1	6	0	2	6	2
				Water for Inj 10ml	6	1	6	0	2	7	2
				Water for Inj 20ml	6	1	6	0	2	8	2
				Water for Inj 200ml	6	1	6	0	2	9	2
				Water for Inj 1000ml	6	1	6	0	3	0	2
		17	Drugs affecting the blood	***see cardiovascular drugs***							
		18	Vitamin & mineral	Ascorbic Acid Inj for IV 100mg/ml 5ml	6	1	8	0	0	1	2
				Biotin (D) Tabs 10mg 100's	6	1	8	0	0	2	2
				Calciferol Tabs 50 000Iu 100's	6	1	8	0	0	3	2
				Calcitriol Caps 0.25mg 30's	6	1	8	0	0	4	2
				Calsium Carbonate & Glycine Tabs 420mg 300's	6	1	8	0	0	5	2
				Calcium Chloride Inj 10% 10ml	6	1	8	0	0	6	2
				Calcium Folinate Inj 50mg 10's	6	1	8	0	0	7	2
				Calcium Folinate Tabs 15mg 10's	6	1	8	0	0	8	2
				Calcium Gluconate Inj 10% 10ml	6	1	8	0	0	9	2
				Calcium Gluconate Tabs 300mg 28's	6	1	8	0	1	0	2
				Ergocalciferol Oral Drops 15ml	6	1	8	0	1	1	2
				Magnesium Chloride Tabs 500-700mg 100's	6	1	8	0	1	2	2
				Magnesium Sulphate Crystals 500g ***(see laxatives)***							
				Nicotinamide Tabs 100mg 28's	6	1	8	0	1	3	2
				Nicotinamide Tabs 100mg 1000's	6	1	8	0	1	4	2
				Nicotinic Acid Tabs 100mg 100's	6	1	8	0	1	5	2
				Potassium Chloride Powder 500g	6	1	8	0	1	6	2
				Potassium Chloride Syr 300mg/5ml 100ml	6	1	8	0	1	7	2
				Potassium Chloride Syr 300mg/5ml 500ml	6	1	8	0	1	8	2
				Potassium Chloride Inj 15% 10ml	6	1	8	0	1	9	2
				Potassium Chloride Slow Tabs 600mg 14's	6	1	8	0	2	0	2
				Potassium Citrate Mixture 100ml	6	1	8	0	2	1	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
6	Gastrolyte	18	Vitamin & mineral	Thiamine IV Inj Vit B1 100mg/ml 10ml	6	1	8	0	2	2	2
				Thiamine Tabs 100mg 28's	6	1	8	0	2	3	2
				Vitamin A Caps 100 000iu 250's	6	1	8	0	2	4	2
				Vitamin A Caps 200 000iu 250's	6	1	8	0	2	5	2
				Vitamin A Tabs 50 000iu 200's	6	1	8	0	2	6	2
				Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30's	6	1	8	0	2	7	2
				Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30's	6	1	8	0	2	8	2
				Vitamin B Co Inj 10ml (IM)	6	1	8	0	2	9	2
				Vitamin B Co Strong Tabs 28's	6	1	8	0	3	0	2
				Vitamin B Co Strong Tabs 84's	6	1	8	0	3	1	2
				Vitamin B Co Strong Tabs 1000's	6	1	8	0	3	2	2
				Vitamin B Co Syr 100ml	6	1	8	0	3	3	2
				Vitamin B6 Tabs 25mg 28's	6	1	8	0	3	4	2
				Vitamin B6 Tabs 25mg 500's	6	1	8	0	3	5	2
				Vitamin C Tabs 100mg 28's	6	1	8	0	3	6	2
				Vitamin C Tabs 100mg 1000's	6	1	8	0	3	7	2
				Vitamin C Tabs 250mg 100's	6	1	8	0	3	9	2
				Vitamin E Tabs 100mg 50's	6	1	8	0	4	0	2
				Vitamin Multiple Oral drops 25ml	6	1	8	0	4	1	2
				Vitamin Multiple Syr 100ml	6	1	8	0	4	2	2
				Vitamin Multiple Tabs 28's	6	1	8	0	4	7	2
				Vitamin Multiple Tabs 56's	6	1	8	0	4	8	2
				Vitamin Multiple Tabs 5000's	6	1	8	0	4	3	2
				Vitamins Fat Soluble Amps for Infants	6	1	8	0	4	4	2
				Vitamins Fat Suluble Inj IV Sol for Adult	6	1	8	0	4	5	2
				Vitamins Water Soluble Inj IV Sol 10ml	6	1	8	0	4	6	2
		19	Feeding and nutritional supplements (oral)	Bettaway Children's Own Tabs 60's	6	1	9	0	0	1	2
				Supradyn Complete Tabs 30's	6	1	9	0	0	2	2
				Vi-Daylin Syrup with Minerals 150ml	6	1	9	0	0	3	2
		20	Feeding and nutritional supplements (parenteral)	Dextrose Sol for IV Infus 5% 50ml	6	2	0	0	0	1	2
				Dextrose Sol for IV Infus 5% 100ml	6	2	0	0	0	2	2
				Dextrose Sol for IV Infus 5% 200ml	6	2	0	0	0	3	2
				Dextrose Sol for IV Infus 5% 1000ml	6	2	0	0	0	4	2
				Dextrose Sol for IV Infus 10% 1000ml	6	2	0	0	0	5	2
				Dextrose Sol for IV Infus 20% 1000ml	6	2	0	0	0	6	2
				Destrose Sol for IV Infus 50% 500ml	6	2	0	0	0	7	2
				Dextrose in Water Inj 50% 20ml	6	2	0	0	0	8	2
				Dextrose In Water Inj 50% 50ml	6	2	0	0	0	9	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
6	Gastrolyte	20	Feeding and nutritional supplements (parenteral)	Dextrose Powder 50g	6	2	0	0	1	0	2
				Dextrose Powder 500g	6	2	0	0	1	1	2
				Electrolytes & Trace Elements	6	2	0	0	1	2	2
				Emulsion Intralipid 10% 100ml	6	2	0	0	1	3	2
				Emulsion Intralipid 10% 500ml	6	2	0	0	1	4	2
				Emulsion Intralipid 20% 500ml	6	2	0	0	1	5	2
				Gelatin & Electrolyte Infusion 500ml	6	2	0	0	1	6	2
		21	Enzymes & other agents	Amino Acid & Comb Clinomel N5-800	6	2	1	0	0	1	2
				Amino Acid & Comb Clinomel N6-900	6	2	1	0	0	2	2
				Amino Acid & Comb Clinomel N7-1000	6	2	1	0	0	3	2
				Amino Acid & Comb Itn 1005N	6	2	1	0	0	4	2
				Amino Acid & Comb Itn 1006N	6	2	1	0	0	5	2
				Amino Acid & Comb Itn 1502A	6	2	1	0	0	6	2
				Amino Acid & Comb Itn 1601N	6	2	1	0	0	7	2
				Amino Acid & Comb Itn 1700A	6	2	1	0	0	8	2
				Amino Acid & Comb Itn 3011A	6	2	1	0	0	9	2
				Amino Acid & Comb Itn 3013A	6	2	1	0	1	0	2
				Amino Acid & Comb Itn 5001A	6	2	1	0	1	1	2
				Amino Acid & Comb Itn 5001Xa	6	2	1	0	1	2	2
				Amino Acid & Comb Itn 5002A	6	2	1	0	1	3	2
				Amino Acid & Comb Itn 55A	6	2	1	0	1	4	2
				Amino Acid & Comb Itn 6001A	6	2	1	0	1	5	2
				Amino Acid & Comb Itn 7001A	6	2	1	0	1	6	2
				Amino Acid & Comb Itn 7002A	6	2	1	0	1	7	2
				Amino Acid & Comb Itn 7003A	6	2	1	0	1	8	2
				Amino Acid & Comb Itn 8001 Xa	6	2	1	0	1	9	2
				Amino Acid & Comb Itn 8001A	6	2	1	0	2	0	2
				Amino Acid & Comb Itn 8003A	6	2	1	0	2	1	2
				Amino Acid & Comb Itn 8003Xa	6	2	1	0	2	2	2
				Amino Acid & Comb Itn 8007A	6	2	1	0	2	3	2
				Amino Acid & Comb Itn 8007Xa	6	2	1	0	2	4	2
				Amino Acid & Comb Itn Pik	6	2	1	0	2	5	2
				Enzymatic & Bacteriostatic Sol 5000ml	6	2	1	0	2	6	2
				Hyaluronidase Powder for Sol Amps	6	2	1	0	2	7	2
				Pancreatin Caps 25 000 100's	6	2	1	0	2	8	2
				Pancrelipase Caps 234.2mg 500's	6	2	1	0	2	9	2
		22	Other gastrolyte	Barium Sulphate Powder 98g	6	2	2	0	0	1	2
				Barium Sculp Powder Single	6	2	2	0	0	2	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
6	Gastrolyte	22	Other gastrolyte	Cyanocobalamin Inj Vit B12 1mg/ml 1ml	6	2	2	0	0	3	2
				Contrast Med Non Ionic Iodine 300mg/ml 20ml	6	2	2	0	0	4	2
				Contrast Med Non Ionic Iodine 300mg/ml 50ml	6	2	2	0	0	5	2
				Contrast Med Non Ionic Iodine 350-370mg/ml 100ml	6	2	2	0	0	6	2
				Contrast Med Non Ionic Iodine 350mg 50ml	6	2	2	0	0	7	2
				Ipecacuanha Tincture 20ml	6	2	2	0	0	8	2
				Neostigmine Methylsulphate Inj 0.5mg/ml1ml	6	2	2	0	0	9	2
				Neostigmine Methylsulphate Inj 2.5mg/ml 1ml	6	2	2	0	1	0	2
				Sodium Acid Phosphate Effervescent Tabs 500mg 100's	6	2	2	0	1	1	2
				Sodium Alginate in a Hydro-Active Base 50g	6	2	2	0	1	2	2
				Sodium Carboxymethyl Cellulose 0.575g/25g	6	2	2	0	1	3	2
				Sodium Polystyrene Sulphate Powder 454g	6	2	2	0	1	4	2
7	Pain reliever	01	Anesthetics (local)	Amethocaine Cream 1% 25g ***(see eye preparations)***							
				Bupivacaine Inj 5mg/ml 10ml	7	0	1	0	0	1	2
				Bupivacaine Spinal Inj 4ml	7	0	1	0	0	2	2
				Bupivacaine Spinal Inj 5mg/ml 4ml	7	0	1	0	0	3	2
				Bupivacaine Inj with Adrenaline 0.5%	7	0	1	0	0	4	2
				Cocaine Hydrochloride Powder 25g	7	0	1	0	0	5	2
				Ethyl Chloride B.P. Spray 100ml	7	0	1	0	0	6	2
				Lignocaine Gel 2% 20g	7	0	1	0	0	7	2
				Lignocaine Inj 1% 20ml	7	0	1	0	0	8	2
				Lignocaine Inj 2% 1.8ml	7	0	1	0	0	9	2
				Lignocaine Inj 2% 20ml	7	0	1	0	1	0	2
				Lignocaine IV Inj 2% 5ml	7	0	1	0	1	1	2
				Lignocaine IV Inj 10% 5ml	7	0	1	0	1	2	2
				Lignocaine Inj with Adrenaline 2% 1.8ml	7	0	1	0	1	3	2
				Lignocaine Inj with Noradrenaline 2% 1.8ml	7	0	1	0	1	4	2
				Lignacaine Spray 10mg 50ml	7	0	1	0	1	5	2
		02	Anesthetics (general)	Enflurane Sol 250ml	7	0	2	0	0	1	2
				Etomidate Inj 2mg/ml 10ml	7	0	2	0	0	2	2
				Halothane Sol 250ml	7	0	2	0	0	3	2
				Isoflurane Liqiud 100ml	7	0	2	0	0	4	2
				Ketamine Inj 10mg/ml 20ml	7	0	2	0	0	5	2
				Ketamine Inj 50mg/ml 10ml	7	0	2	0	0	6	2
				Sevoflurane 250ml	7	0	2	0	0	7	2
		03	Analgesics, non opioids including NSAIMs, gold & anti-gout preparations	Allopurinol Tabs 300mg 30's	7	0	3	0	0	1	2
				Aminosalicylic Acid 4g 30's	7	0	3	0	0	2	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
7	Pain reliever	03	Analgesics, non opioids including NSAIMs, gold & anti-gout preparations	Aspirin Codeine Soluble Tabs 500's	7	0	3	0	0	3	2
				Aspirin Soluble Tabs 300mg 14's	7	0	3	0	0	4	2
				Aspirin Soluble Tabs 300mg 1000's	7	0	3	0	0	5	2
				Aspirin 500mg & Codeien Phosphate 8mg 30's	7	0	3	0	0	6	2
				Celecoxib Caps 100mg 60's	7	0	3	0	0	7	2
				Colchicine Tabs 1mg 60's	7	0	3	0	0	8	2
				Diclofenac Inj 25mg/ml 3ml	7	0	3	0	0	9	2
				Diclofenac Supps 12.5mg 5's	7	0	3	0	1	0	2
				Diclofenac Supps 25mg 5's	7	0	3	0	1	1	2
				Diclofenac Supps 100mg 5's	7	0	3	0	1	2	2
				Diclofenac Tabs 25mg 28's	7	0	3	0	3	5	2
				Diclofenac Tabs 25mg 42's	7	0	3	0	1	3	2
				Diclofenac Tabs 25mg 500's	7	0	3	0	1	4	2
				Dihydrocodeine Tartrate Tabs 30mg 100's	7	0	3	0	1	5	2
				Ibuprofen Susp 100mg/5ml 100ml	7	0	3	0	1	6	2
				Ibuprofen Tabs 200mg 15's	7	0	3	0	1	7	2
				Ibuprofen Tabs 200mg 30's	7	0	3	0	3	4	2
				Ibuprofen Tabs 200mg 84's	7	0	3	0	1	8	2
				Ibuprofen Tabs 200mg 1000's	7	0	3	0	1	9	2
				Methadone Syrup 100ml ***(see cough mixture)***							
				Methyl Salicylate In Vaseline Oint 10% 25g	7	0	3	0	2	0	2
				Paracetamol Codeine Phos Tabs 500mg/8mg 20's	7	0	3	0	2	1	2
				Paracetamol Codeine Phos Tabs 500mg/8mg 5000's	7	0	3	0	2	2	2
				Paracetamol Syr 120mg/5ml 50ml	7	0	3	0	2	3	2
				Paracetamol Syr 120mg/5ml 100ml	7	0	3	0	2	4	2
				Paracetamol Syr 120mg/5ml 500ml	7	0	3	0	2	5	2
				Paracetamol Tabs 500mg 10's	7	0	3	0	2	6	2
				Paracetamol Tabs 500mg 100's	7	0	3	0	2	7	2
				Paracetamol Tabs 500mg 5000's	7	0	3	0	2	8	2
				Paracetamol 120mg & Codeine Phos & Prome Syr 100ml	7	0	3	0	2	9	2
				Probenecid Tabs 500mg 100's	7	0	3	0	3	0	2
				Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20's	7	0	3	0	3	1	2
				Tilidine Oral Drops 100mg/1ml 10ml	7	0	3	0	3	2	2
				Tramadol Inj 100mg/2ml 2ml	7	0	3	0	3	3	2
		04	*Anti-inflammatory (corticosteroids)*	***see dermatologicals***							
		05	Analgesics (opioids) / narcotic analgesics	Codeine Phosphate Syr 100ml	7	0	5	0	0	1	2
				Codeine Phosphate Tabs 30mg 100's	7	0	5	0	0	2	2
				Fentanyl Citrate Inj 0.5mg/ml 2ml	7	0	5	0	0	3	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
7	Pain reliever	05	Analgesics (opioids) / narcotic analgesics	Morphine Sulphate IV Inj 15mg 1ml	7	0	5	0	0	4	2
				Morphine Sulphate Powder 25g	7	0	5	0	0	5	2
				Morphine Sulphate Tabs 10mg 50's	7	0	5	0	0	6	2
				Morphine Sulphate Tabs 30mg 60's	7	0	5	0	0	7	2
				Pethidine IM Inj 50mg/ml 1ml 10's	7	0	5	0	0	8	2
				Pethidine IM Inj 100mg/2ml 1ml 10's	7	0	5	0	0	9	2
		06	Sedatives, hypnotics and mood disorders	***see functional, psychotic drugs & mood disorders***							
		07	Antimalaria	Chloroquine Syr 50ml	7	0	7	0	0	4	2
				Chloroquine Tabs 150mg 100's	7	0	7	0	0	5	2
				Quinine Inj 300mg/ml 1ml	7	0	7	0	0	1	2
				Quinine Sulphate Tabs 300mg 100's	7	0	7	0	0	2	2
				PyrimethamineSulfadoxineTabs 25mg 12's	7	0	7	0	0	3	2
		08	Antimigraine agents	Metoclopramide Tabs 10mg 10's ***(see anti-emetic)***							
		09	Others								
8	Immunological	01	Sera & immunological	Immunoglobulin Human Normal for IV use 1g	8	0	1	0	0	1	2
				Immunoglobulin Human Normal for IV use 3g	8	0	1	0	0	2	2
				Immunoglobulin Human Normal for IV use 6g	8	0	1	0	0	3	2
				Immunoglobulin Human Normal for IV use 12g	8	0	1	0	0	4	2
				Immunoglobulin Human Tetanus 500Iu	8	0	1	0	0	5	2
				Vaccine Anti-D Immunoglobulin Amp IM 100mg/2ml 2ml	8	0	1	0	0	6	2
				Vaccine Antisera Snake Bite	8	0	1	0	0	7	2
				Vaccine Antivenom Spider 5ml	8	0	1	0	0	8	2
				Vaccine Immunoglobulin Anti-Hepatitis B	8	0	1	0	0	9	2
				Vaccine Immunoglobulin Anti-Tetanus 500Iu	8	0	1	0	1	0	2
				Vaccine Immunoglobulin Human Anti-Rabies 150Iu	8	0	1	0	1	1	2
				Vaccine Immunoglobulin Human Norm Single dose 5ml	8	0	1	0	1	2	2
				Vaccine Immunoglobulin Varicella Zoster 2ml	8	0	1	0	1	3	2
				Vaccine Scorpion Antivenom 5ml	8	0	1	0	1	4	2
		02	Vaccines	Vaccine BCG ID Inj 20 dose	8	0	2	0	0	1	2
				Vaccine Diphtheria & Tetanus 10ml	8	0	2	0	0	2	2
				Vaccine DPT 10ml	8	0	2	0	0	3	2
				Vaccine Hepatitis B Pead 10 dose	8	0	2	0	0	4	2
				Vaccine Hepatitis B Pead Single dose	8	0	2	0	0	5	2
				Vaccine Hib-DTP 10 dose	8	0	2	0	0	6	2
				Vaccine Hib-DTP Single dose	8	0	2	0	0	7	2
				Vaccine Influenza 0.5ml	8	0	2	0	0	8	2
				Vaccine Measles 10 dose	8	0	2	0	0	9	2
				Vaccine Meningitis A&C Single dose	8	0	2	0	1	0	2

Appendix C.3: Therapeutic budget model (continue)

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
8	Immunological	02	Vaccines	Vaccine Oral Polio 10 dose	8	0	2	0	1	1	2
				Vaccine Oral Polio 20 dose	8	0	2	0	1	2	2
				Vaccine Pneumococcus Single dose	8	0	2	0	1	3	2
				Vaccine Rabies 2.5Iu/dose Single dose	8	0	2	0	1	4	2
				Vaccine Tetanus Adosrbed 10 dose 10ml	8	0	2	0	1	5	2
				Vaccine Yellow Fever Single dose	8	0	2	0	1	6	2
		03	Immunosuppressants	Azathioprine Tabs 50mg 100's	8	0	3	0	0	1	2
				Ciclosporin Caps 25mg 50's	8	0	3	0	0	2	2
				Ciclosporin Caps 100mg 50's	8	0	3	0	0	3	2
				Litmus Paper Blue 200 leaves	8	0	3	0	0	4	2
				Litmus Paper Red 200 leaves	8	0	3	0	0	5	2
		04	Diagnostic agents	Cldex Test Strip 30's	8	0	4	0	0	1	2
				Mycophenolate mofetil Caps 250mg 100's	8	0	4	0	0	2	2
				Meter Peak Flow Adult	8	0	4	0	0	3	2
				Meter Peak Flow Children	8	0	4	0	0	4	2
				Tacrolimus Caps 1mg 100's	8	0	4	0	0	5	2
				Test HIV Antibodies In Human Confirmator 50's	8	0	4	0	0	6	2
				Test HIV Determine Capillary Tubes 100's	8	0	4	0	0	7	2
				Test Kit Urine For Pregnancy Ectopic 25's	8	0	4	0	0	8	2
				Test Rapit Determination HIV-1/HIV-2 Antibodies 60's	8	0	4	0	0	9	2
				Test Rhesus Factor 10ml	8	0	4	0	1	0	2
				Test Strip Accucheck Sensor 50's	8	0	4	0	1	1	2
				Test Strip Blood Glucose Sg018 50's	8	0	4	0	1	2	2
				Test Strip Blood Glucose Elite 50's	8	0	4	0	1	3	2
				Test Strip Blood Glucose Glucostix 50's	8	0	4	0	1	4	2
				Test Strip Blood Glucose Glucotrent Plus 50's	8	0	4	0	1	5	2
				Test Strip Blood Glucose One Touch 50's	8	0	4	0	1	6	2
				Test Strip Glucose in Blood Refloflux 50's	8	0	4	0	1	7	2
				Test Strip Glucose In Blood Accutrend 50's	8	0	4	0	1	8	2
				Test Strip Glucose in Urine 30's	8	0	4	0	1	9	2
				Test Strip Glucose Ketones Proteins 100's	8	0	4	0	2	0	2
				Test Strip Glucose Proteins Ketones Combur 9 100's	8	0	4	0	2	1	2
				Test Tuberculin PPD Liquid Amp 1.5ml 10's	8	0	4	0	2	2	2
				Test Tuberculin PPD Liquid 25 20's	8	0	4	0	2	3	2
		05	Diagnostic agents (radiology)								
		06	Antidotes (general)	Charcoal Powder Activated 100g	8	0	6	0	0	1	2
		07	Antidotes (specific)	Acetylcysteine Inj 200mg/ml 10ml	8	0	7	0	0	1	2
				Desferrioxamine Mesylate Inj 500mg	8	0	7	0	0	2	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
8	Immunological	07	Antidotes (specific)	Obidoxime Inj for IV use 250mg/ml 1ml	8	0	7	0	0	3	2
9	Respiratory agent	01	Anti-asthmatic & mucolytic	Adrenaline Tart Inj eq Adrenaline 1mg/ml 1:1000 ***(see anaphylaxis)***							
				Aerochamber Adult	9	0	1	0	0	1	2
				Aerochamber Child	9	0	1	0	0	2	2
				Aerochamber Neonate	9	0	1	0	0	3	2
				Aminophyllin Inj for IV use 25mg/ml 10ml	9	0	1	0	0	4	2
				Beclomethasone MDI 100mg 200 dose	9	0	1	0	0	5	2
				Beclomethasone nasal Spray Aqueous 50mg	9	0	1	0	0	6	2
				Budesonide Inhaler&Spacer 100mg	9	0	1	0	0	7	2
				Budesonide MDI 200mg 300 dose	9	0	1	0	0	8	2
				Budesonide Nebulis Susp 0.25mg/ml 2ml	9	0	1	0	0	9	2
				Fenoterol Inhaler Complete 100	9	0	1	0	1	0	2
				Fenoterol UDV 0.5mg/2ml 60's	9	0	1	0	1	1	2
				Fenoterol UDV 1.25mg/2ml 60's	9	0	1	0	1	2	2
				Hexoprenaline Inj 0.0025mg/ml 2ml	9	0	1	0	1	3	2
				Hexoprenaline Inj 0.0025mg/ml 10ml	9	0	1	0	1	4	2
				Hexoprenaline Tabs 0.5mg 100's	9	0	1	0	1	5	2
				Ipratropium Inhaler Complete 200 dose	9	0	1	0	1	6	2
				Ipratropium Inhaler Complete 300 dose	9	0	1	0	1	7	2
				Ipratroplum UDV 0.25mg/2ml 2ml 60's	9	0	1	0	1	8	2
				Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60's	9	0	1	0	1	9	2
				Mesna Inhalant Amps 600mg/3ml	9	0	1	0	2	0	2
				Salbutamol MDI Complete 100mg 200 dose	9	0	1	0	2	1	2
				Salbutamol Syr 2mg/5ml 150ml	9	0	1	0	2	2	2
				Salbutamol Tabs 2mg 28's	9	0	1	0	2	3	2
				Salbutamol Tabs 4mg 100's	9	0	1	0	2	4	2
				Salbutamol Sulphate 2mg 100's	9	0	1	0	2	5	2
				Salbutamol UDV Inh Sol 2.5mg/2.5ml 30's	9	0	1	0	2	6	2
				Salbutamol UDV Inh Sol 5mg/2.5ml	9	0	1	0	2	7	2
				Salmeterol Accuhaler 0.05mg 60 Dose	9	0	1	0	2	8	2
				Theophylline Syr 200ml	9	0	1	0	2	9	2
				Theophylline Syr 25mg/5ml 500ml	9	0	1	0	3	0	2
				Theophylline Anhydrous Tabs 200mg 60's	9	0	1	0	3	1	2
				Theophylline Anhydrous Tabs 250mg 56's	9	0	1	0	3	2	2
				Theophylline Anhydrous Tabs 300mg 60's	9	0	1	0	3	3	2
		02	Cough mixture	Carbocisteine Syr 250mg/5ml 200ml	9	0	2	0	0	1	2
				Methadone Syrup 100ml	9	0	2	0	0	2	2
				Mist Expectorant Stim Syr Adult 200ml	9	0	2	0	0	3	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
9	Respiratory agent	02	Cough mixture	Mist Tussi Infants Mist 100ml	9	0	2	0	0	4	2
				Syrup Simplex 2500ml	9	0	2	0	0	5	2
		03	Antituberculosis	Etambutol Tabs 400mg 100's	9	0	3	0	0	1	2
				Ethionamide Tabs 250mg 250's	9	0	3	0	0	2	2
				Isoniazid Tabs 100mg 1000's	9	0	3	0	0	3	2
				Pyrazinamide Tabs 500mg 28's	9	0	3	0	0	4	2
				Ofloxacin Tabs 200mg 10's ***(see antibacterial)***							
				Rifabutin Caps 150mg 30's	9	0	3	0	0	5	2
				Rifampicin Caps 150mg 100's	9	0	3	0	0	6	2
				Rifampicin Syr 100mg/5ml 180ml	9	0	3	0	0	7	2
				Rifampicin Tabs 450mg 100's	9	0	3	0	0	8	2
				Rifampicin Tabs 600mg 100's	9	0	3	0	0	9	2
				Rifampicin Vial 300mg	9	0	3	0	1	0	2
				Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 60's	9	0	3	0	1	1	2
				Rifampicin 60mg, Isoniazid 30mg 40g sachets 40's	9	0	3	0	1	2	2
				Rifampicin 150mg, Isoniazid 75mg Tabs 60's	9	0	3	0	1	3	2
				Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100's	9	0	3	0	1	4	2
				Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100's	9	0	3	0	1	5	2
				Rifampicin 150mg & Etambutol HCl 275mg Tabs 60's	9	0	3	0	1	6	2
				Rifampicin 300mg & Isoniazid 150mg Tabs 40's	9	0	3	0	1	8	2
				Streptomycin Inj 1g/3ml	9	0	3	0	1	9	2
				Streptomycin Sulphate Inj 5g/15ml	9	0	3	0	2	0	2
				Terizidone Caps 250mg 100's	9	0	3	0	2	1	2
		04	Decongestants (cold/flu)	Oxymetazoline Nose Drops 0.025% 10ml	9	0	4	0	0	1	2
				Oxymetazoline Nose Drops 0.05% 10ml	9	0	4	0	0	2	2
				Phenylephrine Inj 10mg/ml 1ml	9	0	4	0	0	3	2
				Pseudoephedrine Sulphate Syr 30mg/5ml 50ml	9	0	4	0	0	4	2
				Pseudoephedrine Tabs 60mg 20's	9	0	4	0	0	5	2
		05	Antihistamine for systemic use	Cetirizine Dihydrochloride 10mg 28's	9	0	5	0	0	1	2
				Chlorpheniramine Mal Syr 2mg/5ml 50ml	9	0	5	0	1	1	2
				Chlorpheniramine Mal Tabs 4mg 30's	9	0	5	0	0	2	2
				Ketotifen Fumarate Syr 1mg/5ml 200ml	9	0	5	0	0	3	2
				Loratadine Syrup 5mg/ml 100ml	9	0	5	0	0	4	2
				Promethazine Inj 25mg/ml 1ml	9	0	5	0	0	5	2
				Promethazine Inj 25mg/ml 2ml	9	0	5	0	0	6	2
				Promethazine Syr 5mg/5ml 100ml	9	0	5	0	0	7	2
				Promethazine Tabs 10mg 42's	9	0	5	0	0	8	2
				Promethazine Tabs 25mg 500's	9	0	5	0	0	9	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
9	Respiratory agent	05	Antihistamine for systemic use	Trimeprazine Tart syrup 30mg/5ml 100ml	9	0	5	0	1	0	2
		06	Others	Muplrocin Nasal Oint 3g	9	0	6	0	0	1	2
10	Urogenital drugs	01	Anti-effective, antibacterials & other	***see anti-infectives Oral/Inj***							
		02	Antifungal	Clotrimazole Vaginal Tabs 500mg 1's	10	0	2	0	0	1	2
				Fluconazole Susp 50mg/5ml 35ml ***(see antifungal (topical))***							
		03	Diuretics	***see antihypertensives***							
		04	Urinary alkalizers & iron-exchange preparations	Omeprazole Caps 20mg 30's ***(see antiacids)***							
				Sodium Citrate Powder 500g	10	0	4	0	0	2	2
				Sodium Citro-Tartrate Granules 120g	10	0	4	0	0	3	2
		05	Urinary antiseptics								
		06	Others	Finasteride Tabs 5mg 28's	10	0	6	0	0	1	2
				Flavoxate Tabs 200mg 100's	10	0	6	0	0	2	2
				Oxybutynin Tabs 5mg 100's	10	0	6	0	0	3	2
				Terazosin Tabs 2mg 28's ***(see antihypertensive)***							
				Terazosin Tabs 5mg 28's ***(see antihypertensive)***							
11	Miscellaneous	01	Dialysis Fluids	Dianeal Normal Calsium Solution 1..5% 2000ml	11	0	1	0	0	1	2
				Haemodialysis High Pottasium Formula Sol 5000ml	11	0	1	0	0	2	2
				Haemodialysis Liquid Bicarb Conc	11	0	1	0	0	3	2
				Haemodialysis Low Calcium Sol 5000ml	11	0	1	0	0	4	2
				Haemodialysis Low Glucose Formula 28 5000ml	11	0	1	0	0	5	2
				Haemodialysis Low Magnesium Formula 16Afm	11	0	1	0	0	6	2
				Haemodialysis Haemocarb Acid Conc	11	0	1	0	0	7	2
				Perit Dialysis 1.5% Glucose 1000ml in 1000ml	11	0	1	0	0	8	2
				Perit Dialysis 1.5% Glucose 2000ml in 2000ml	11	0	1	0	0	9	2
				Perit Dialysis 2.5% Glucose 1000ml in 1000ml	11	0	1	0	1	0	2
				Perit Dialysis 2.5% Glucose 2000ml in 2000ml	11	0	1	0	1	1	2
				Perit Dialysis 4.25% Glucose 1000ml in 1000ml	11	0	1	0	1	2	2
				Perit Dialysis 4.25% Glucose 2000ml in 2000ml	11	0	1	0	1	3	2
				Peritoneal Dialysis Sol 2.5% Nc 2000ml	11	0	1	0	1	4	2
				Peritoneal Dialysis Sol 4.25% Nc 2000ml	11	0	1	0	1	5	2
		02	Cryogenic Products/Aids	Nitrogen Liquid (Histofreeze)	11	0	2	0	0	1	2
		03	Cleaning fluids	Acetone 500ml	11	0	3	0	0	1	2
				Alcohol 96% 20L	11	0	3	0	0	2	2
				Ether, technical, 500ml	11	0	3	0	0	3	2
		04	Plasma Products	Bioplasma Fdp 50ml	11	0	4	0	0	1	2
				Bioplasma Fdp 200ml	11	0	4	0	0	2	2
				Hydroxyethyl Starch & Sodium Chloride Inj	11	0	4	0	0	3	2
				Hydroxyethyl Starch & Sodium Chloride 500ml	11	0	4	0	0	4	2

Code	Budget Group	Code	Pharmacological Group	Medicine item description	Individual item code						
11	Miscellaneous	04	Plasma Products	Phospholipids Total Inj 200mg 8ml	11	0	4	0	0	5	2

Appendix C.4: ICD-10 codes used in study

Code	Disease	Code	Disease
A05.9	Diarrhoea, infective / Food poisoning	E11.8	Hypoglycaemia / hyperglycaemia in diabetes mellitus
A16.9	Tuberculosis	E52	Pellagra
A41.9	Septicaemia	E56.9	Vitamin deficiency
A50.0	STD suspicion	E57.9	Mineral deficiency
A54.9	Vaginal discharge	E78.5	Cholesterol
A60.1	Herpes viral inflammation of perianal skin & rectum	E87.1	Sodium & water disturbances
A63.0	Genital warts	E87.4	Disorders of acid-base balance
A82.9	Rabies	E87.8	Other disorders of fluid & electrolyte balance
B00.2	Herpes simplex / cold sore	F20	Schizophrenic disorders
B20.1	Undefined bacterial infection	F31	Bipolar affective disorders
B20.3	Undefined viral infection	F31.9	Bipolar disorders
B21.0	Kaposi's sarcoma	F32.9	Major depressive disorder
B24	Unspecified HIV	F40.1	Panic disorder
B35	Fungal skin infection	G00.9	Meningitis, bacterial
B35.9	Scabies	G09	Inflammation
B37.0	Candidiasis	G20	Parkinsonism
B45.1	Cryptococcus - cerebral meningitis	G40.2	Symptomatic epilepsy with complex partial seizures
B53.8	Malaria	G40.9	Epilepsy
B82.0	Worm infections except tape worm	G41.9	Status epileptics, unspecified
B83.5	Hypercalcaemia	H05.0	Acute inflammation of orbit (cellulites of the eye)
C62.9	Malignant neoplasm of testis, unspecified	H10.1	Conjunctivitis
C63.9	Cancer of penis, unspecified	H60.9	Otitis externa
C90.0	Multiple myeloma	H66.9	Otitis media
D52.9	Unspecified folate deficiency anaemia	I00	Rheumatic fever without mention of heart involvement
D64.9	Unspecified anaemia	I10	Hypertension
D68.9	Unspecified coagulation defects	I20.0	Angina
E03.9	Hypothyroidism, unspecified	I50.0	Congestive cardiac failure
E10	Diabetes mellitus type 1	I52	Cardial failure
E11	Diabetes mellitus type 2	I70.2	Arteriosclerotic gangerene

Code	Disease	Code	Disease
I84.9	Haemorrhoids	M10.9	Gout
J01.9	Sinusitis	M99	Muscle relaxant
J03.9	Tonsillitis (bacterial)	N00	Nephritis
J05.9	Gastro-enteritis	N11.1	Chronic obstructive pyelonephritis
J06.9	Acute upper respiratory track infection, unspecified	N39.0	Urinary track infection, uncomplicated
J18.0	Brongopneomonia, unspecified	N40	Benign prostatic hyperplasia
J18.9	Pneumonia, unspecified	N73.9	Pelvic inflammation disease
J30.4	Allergic rhinitis	N75.1	Bartholin's abscess
J44.0	Chronic obstructive pulmonary disease with acute lower respiratory infection	N92.0	Vaginal bleeding
J45	Asthma, acute OR asthma, chronic persistent	O04	Abortion, complicated, therapeutic, legal
J85.2	Abscess of the lung without pneumonia	O91.1	Abscess of the breast
J94.2	Haemothorax	Q24.9	Congenital malformations of the heart, unspecified
K04.7	Dental abscess	R05	Cough
K12.2	Mouth abscess	R05.9	Gastro diarrhoea
K27.0	Peptic ulcer	R11	Nausea
K29.0	Gastritis - acute, haemorrhagic	R52.9	Pain control
K37	Appendicitis, unspecified	R57.9	Anaphylactic shock / shock
K39.0	Urinary tract infection	R62.8	Feeding supplement
K59.0	Constipation	S81.9	Wound caring
K70.9	Alcoholic liver disease, unspecified	T11.6	Amputation of upper limb, level unspecified
K92.2	Gastrointestinal haemorrhage, unspecified	T16	Foreign body in ear (wax)
K93	Abdominal cramps	T30.0	Burns, complicated
L02.9	Boils / impetigo	T52.0	Toxic effect of petroleum products
L03.9	Unspecified cellulites	T63.4	Bites and stings
L13.0	Dermatitis herpetiformis	T65.9	Toxic effect of poisons (unspecified substance)
L22	Rash	T74.2	Rape
L29.9	Pruritus	T78.4	Antihistamine for allergies
L40.9	Psoriasis	T88.4	Failed or difficult intubations
M00.9	Septic Arthritis, acute	T88.5	Sedation

Appendix C.4: ICD-10 codes used in study (continue)

Code	Disease	Code	Disease
UD1	Unknown diagnosis		
Y42.5	Hormone replacement therapy		
Z26.9	Immunisation		
Z30.0	Family planning		
Z39.2	Post partum bleeding		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes

The dark shaded areas indicate unused space

The light shaded areas indicate where medicine items was only used in either inpatients or outpatients department

The bold printed figures are those discussed in Chapter 5

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Diarrhoea, infective / Food poisoning	Anti-infective	154	81.91	10	41.67										
						Antibacterial (penicillins)	98	52.13	3	12.50					
											Amoxycillin Caps 500mg 15s	2	1.06	2	8.33
											Amoxycillin Susp 125mg/5ml 100ml	5	2.66		
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	4	2.13		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	5	2.66	1	4.17
											Ampicillin Inj 250mg	28	14.89		
											Ampicillin Inj 500mg	10	5.32		
											Benzylpenicillin G Inj 1Mu 50s	1	0.53		
											Ciprofloxacin Tabs 500mg 10s	2	1.06		
											Co-trimoxazole for IV Infus 480mg 5ml	1	0.53		
											Gentamicin Inj 40mg/ml 1ml	30	15.96		
											Gentamicin Inj 80mg/2ml 2ml	10	5.32		
						Anti-infective (*cephalosporins*)	7	3.72	1	4.17					
											Cefotaxime Inj 1g/15ml			1	4.17
											Ceftriaxone IM Inj 250mg	4	2.13		
											Ceftriaxone Inj 1g	3	1.60		
						Antibacterial (chloramphenicol, erythromycin)	49	26.06	6	25.00					
											Co-trimoxazole Tabs 480mg 20s	9	4.79	2	8.33
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	0.53	1	4.17
											Co-trimoxazole Susp 200/40mg/5ml 50ml	27	14.36		
											Erythromycin Tabs 250mg 20s			1	4.17
											Metronidazole IV Inj 500mg/ml 100ml	8	4.26		
											Metronidazole Tabs 200mg 21s	4	2.13	2	8.33
	Gastrolyte	34	18.09	14	58.33										
						Antidiarrhoea & ulcerative colitis	34	18.09	14	58.33					
											Half Darrows & Glucose 5% Sol 200ml	14	7.45	1	4.17

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Diarrhoea, infective cont.	Gastrolyte	34	18.09	14	58.33	Antidiarrhoea & ulcerative colitis	34	18.09	14	58.33	Half Darrows & Glucose 5% Sol 500ml	5	2.66		
											Loperamide Tabs 2mg 6s	15	7.98	13	54.17
Tuberculosis	Anti-infective	59	28.64	3	8.11										
						Antibacterial (penicillins)	39	18.93	2	5.41					
											Amoxycillin Caps 500mg 15s			1	2.70
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	4	1.94		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	5	2.43		
											Ampicillin Inj 250mg	2	0.97		
											Ampicillin Inj 500mg	8	3.88		
											Ciprofloxacin Tabs 500mg 10s			1	2.70
											Co-trimoxazole for IV Infus 480mg 5ml	2	0.97		
											Fluconazole Caps 50mg 14s	1	0.49		
											Fluconazole Caps 200mg 28s	3	1.46		
											Fluconazole Inj for IV Infus 2mg/ml 100ml	1	0.49		
											Gentamicin Inj 40mg/ml 1ml	1	0.49		
											Gentamicin Inj 80mg/2ml 2ml	11	5.34		
											Ketoconazole Tabs 200mg 30s	1	0.49		
						Anti-infective (cephalosporins)	4	1.94							
											Ceftriaxone IM Inj 250mg	1	0.49		
											Ceftriaxone Inj 1g	3	1.46		
						Antibacterial (chloramphenicol, erythromycin)	16	7.77	1	2.70					
											Co-trimoxazole Tabs 480mg 20s	8	3.88		
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	3	1.46	1	2.70
											Co-trimoxazole Susp 200/40mg/5ml 50ml	3	1.46		
											Metronidazole Tabs 200mg 21s	1	0.49		
											Spectinomycin Inj 400mg/ml 2g 5ml	1	0.49		
	Gastrolyte	1	0.49												
						Antidiarrhoea & ulcerative colitis	1	0.49							
											Half Darrows & Glucose 5% Sol 200ml	1	0.49		
	Respiratory agents	**146**	70.87	34	91.89										
						Antituberculosis	**146**	70.87	34	91.89					
											Ethionamide Tabs 250mg 250s	3	1.46		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Tuberculosis	Respiratory agents	146	70.87	34	91.89	Antituberculosis	146	70.87	34	91.89	Pyrazinamide Tabs 500mg 28s	1	1.49		
											Rifampicin Caps 150mg 100s	3	1.46		
											Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	41	19.90	2	5.41
											Rifampicin 150mg, Isoniazid 75mg Tabs 60s	20	9.71	4	10.81
											Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg Tabs 100s	71	34.47	24	64.86
											Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s	1	0.49		
											Rifampicin 300mg & Isoniazid 150mg Tabs 40s			4	10.81
											Streptomycin Inj 1g/3ml	3	1.46		
											Streptomycin Sulphate Inj 5g/15ml	3	1.46		
Septicaemia	Anti-infective	5	100												
						Antibacterial (penicillins)	1	20.00							
											Amoxycillin Susp 125mg/5ml 100ml	1	20.00		
						Anti-infective (cephalosporins)	2	40.00							
											Ceftriaxone IM Inj 250mg	2	40.00		
						Antibacterial (chloramphenicol, erythromycin)	2	40.00							
											Metronidazole IV Inj 500mg/ml 100ml	2	40.00		
STD suspicion	Anti-infective	5	100	25	100										
						Antibacterial (penicillins)	3	60.00	10	40.00					
											Amoxycillin Caps 500mg 15s	1	20.00	2	8.00
											Benzathine Penicillin G Inj. 2.4Mu Vials	1	20.00	1	4.00
											Ciprofloxacin Inj for IV Infus 2mg/ml 100ml			2	8.00
											Ciprofloxacin Tabs 500mg 10s	1	20.00	5	20.00
						Anti-infective (cephalosporins)			1	4.00					
											Ceftriaxone Inj 1g			1	4.00
						Antibacterial (chloramphenicol, erythromycin)	2	40.00	14	56.00					
											Doxycycline Caps 100mg 14s	1	20.00	7	28.00
											Erythromycin Tabs 250mg 100s			1	4.00
											Metronidazole IV Inj 500mg/ml 100ml			1	4.00
											Metronidazole Tabs 200mg 21s	1	20.00	5	20.00

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Vaginal discharge	Anti-infective	1	100												
						Antibacterial (chloramphenicol, erythromycin)	1	100							
											Metronidazole IV Inj 500mg/ml 100ml	1	100		
Herpes viral inflammation of perianal skin & rectum	Anti-infective	2	100												
						Antibacterial (penicillins)	1	50.00							
											Flucloxacillin Caps 250mg 20s	1	50.00		
						Antibacterial (chloramphenicol, erythromycin)	1	50.00							
											Metronidazole Tabs 200mg 21s	1	50.00		
Genital warts	Anti-infective	3	100												
						Antibacterial (penicillins)	2	66.67							
											Ampicillin Inj 500mg	1	33.33		
											Cloxacillin IV Inj 500mg	1	33.33		
						Antibacterial (chloramphenicol, erythromycin)	1	33.33							
											Co-trimoxazole Tabs 480mg 20s	1	33.33		
	Dermatological			5	100										
						Antiseptics, antivirals, keratoplastic & keratolytic agents			5	100					
											Podophyllum Resin 25g			1	20.00
											Podophyllum Resin Oint 10g			4	80.00
Rabies	Immunological			6	100										
						Sera & immunologicals			1	16.67					
											Vaccine Immunoglobulin Human Anti-Rabies 150IU			1	16.67
						Vaccines			5	83.33					
											Vaccine Rabies 2.5IU/dose Single dose			5	83.33
Herpes simplex / cold sore	Dermatological			1	100										
						Eye preparations (anti-infective)			1	100					
											Acyclovir Tabs 200mg 25s			1	100
Undefined bacterial infection	Anti-infective	686	99.85	494	98.41										
						Antibacterial (penicillins)	371	54.00	272	54.18					
											Amoxycillin Caps 250mg 15s	8	1.16	14	2.79
											Amoxycillin Caps 500mg 15s	35	5.09	79	15.74

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Undefined bacterial infection	Anti-infective	686	99.85	494	98.41	Antibacterial (penicillins)	371	54.00	272	54.18	Amoxycillin Susp 125mg/5ml 100ml	18	2.62	17	3.39
											Amoxycillin Susp 250mg/5ml 100ml	1	0.15	1	0.02
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	14	2.04		
											Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	6	0.87	8	1.59
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	43	6.26	57	11.35
											Ampicillin Inj 250mg	27	3.93		
											Ampicillin Inj 500mg	57	8.30	2	0.40
											Benzathine Penicillin G Inj. 2.4Mu Vials	3	0.44	3	0.60
											Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	3	0.44	2	0.40
											Ciprofloxacin Tabs 500mg 10s	19	2.77	30	5.98
											Clindamycin Caps 150mg 100s			2	0.40
											Cloxacillin IV Inj 500mg	14	2.04		
											Co-trimoxazole for IV Infus 480mg 5ml	5	0.73		
											Flucloxacillin Caps 250mg 20s	24	3.49	22	4.38
											Fluconazole Caps 50mg 14s	2	0.29		
											Fluconazole Caps 200mg 28s	4	0.58	1	0.20
											Fluconazole Inj for IV Infus 2mg/ml 100ml	1	0.15		
											Gentamicin Inj 40mg/ml 1ml	26	3.78	2	0.40
											Gentamicin Inj 80mg/2ml 2ml	47	6.84	2	0.40
											Ketoconazole Tabs 200mg 30s	11	1.60	15	2.99
											Nalidixic Acid Tabs 500mg 100s			2	0.40
											Nitrofurantoin Caps 100mg 50s	2	0.29	1	0.20
											Phenoxymethyl Penicillin Susp 250mg/5ml 100ml			1	0.20
											Phenoxymethyl Penicillin Tabs 250mg 20s			5	1.00
											Phenoxymethyl Penicillin Tabs 250mg 100s			1	0.20
											Nitrofurantoin Caps 100mg 30s	1	0.15	5	1.00
						Anti-infective (cephalosporins)	43	6.26	12	2.39					
											Cefazolin Inj 500mg	4	0.58	2	0.40
											Ceftriaxone IM inj 250mg	10	1.46	2	0.40
											Ceftriaxone Inj 1g	29	4.22	8	1.59

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Undefined bacterial infection	Anti-infective	686	99.85	494	98.41	Antibacterial (chloramphenicol, erythromycin)	272	39.59	206	41.04					
											Co-trimoxazole Tabs 480mg 20s	55	8.01	18	3.59
											Co-trimoxazole Tabs 400mg 1000s			1	0.20
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	21	3.06	48	9.56
											Co-trimoxazole Susp 200mg/40mg/5ml 50ml	47	6.84	16	3.19
											Co-trimoxazole Syr 200/40mg/5ml 100ml	8	1.16	5	1.00
											Doxycycline Caps 100mg 14s	14	2.04	40	7.97
											Erythromycin Susp 125mg/5ml 100ml	3	0.44	1	0.20
											Erythromycin IV Inj 1g	1	0.15		
											Erythromycin Tabs 250mg 20s	11	1.60	20	3.98
						Antibacterial (chloramphenicol, erythromycin)	272	39.59	206	41.04	*Metronidazole IV Inj 500mg/ml 100ml*	53	7.71	1	0.20
											Metronidazole Tabs 200mg 21s	59	8.59	50	9.96
											Metronidazole Susp 200mg/5ml 50ml			4	0.80
											Metronidazole Susp 200mg/5ml 100ml			1	0.20
											Metronidazole Tabs 200mg 10s			1	0.20
						Antiviral			1	0.20					
											Acyclovir Cream 5% 2g			1	0.20
						Antifungal (oral/injection)			3	0.60					
											Cisplatin Inj 10mg			3	0.60
	Dermatological			6	1.20										
						Antifungal (topical)			2	0.40					
											Clotrimazole Cream 1% 20g			2	0.40
						Ointments, Creams, Pastes, Jellies, Emollients, Protectants, Dressings and Sprays			1	0.20					
											Aqueous Cream 100g			1	0.20
						Eye preparations (anti-infective)			3	0.60					
											Acyclovir Tabs 200mg 25s			3	0.60
	Endocrines			2	0.40										
						Corticosteroids for systemic use (oral/injection)			2	0.40					
											Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s			2	0.40

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Undefined bacterial infection	Pain reliever	1	0.15												
						Analgesics, non-opioids including NSAIMs, gold and anti-gout preparations	1	0.15							
											Ibuprofen Tabs 200mg 15s	1	0.15		
Undefined viral infection	Anti-infective	15	93.75	7	58.33										
						Antibacterial (penicillins)	7	43.75	1	8.33					
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	6.25		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	6.25		
											Ampicillin Inj 500mg	2	12.50		
											Ciprofloxacin Tabs 500mg 10s			1	8.33
											Gentamicin Inj 80mg/2ml 2ml	3	18.75		
						Anti-infective (cephalosporins)	1	6.25							
											Cefazolin Inj 500mg	1	6.25		
						Antibacterial (chloramphenicol, erythromycin)	6	37.50	2	16.67					
											Co-trimoxazole Tabs 480mg 20s	4	25.00		
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	6.25	1	8.33
											Metronidazole Tabs 200mg 21s	1	6.25	1	8.33
						Antiviral	1	6.25	4	33.33					
											Acyclovir Cream 5% 2g	1	6.25	4	33.33
	Dermatological	1	6.25	5	41.67										
						Eye preparations (anti-infective)	1	6.25	5	41.67					
											Acyclovir Tabs 200mg 25s	1	6.25	5	41.67
Kaposi's sarcoma	Anti-infective	4	100												
						Antibacterial (penicillins)	2	50.00							
											Fluconazole Caps 200mg 28s	1	25.00		
											Ketoconazole Tabs 200mg 30s	1	25.00		
						Antibacterial (chloramphenicol, erythromycin)	2	50.00							
											Co-trimoxazole Tabs 480mg 20s	1	25.00		
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	25.00		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Unspecified HIV	Anti-infective	**241**	100	**685**	99.85										
						Antibacterial (penicillins)			4	0.58					
											Amoxycillin Caps 500mg 15s			2	0.29
											Ciprofloxacin Tabs 500mg 10s			2	0.29
						Antibacterial (chloramphenicol, erythromycin)	39	16.18	**166**	24.20					
											Co-trimoxazole Tabs 480mg 20s	6	2.49	20	2.92
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	25	10.37	**125**	18.22
											Co-trimoxazole Susp 200/40mg/5ml 50ml	8	3.32	2	0.29
											Co-trimoxazole Syr 200/40mg/5ml 100ml			5	0.73
											Doxycycline Caps 100mg 14s			2	0.29
											Erythromycin Tabs 250mg 56s			1	0.15
											Metronidazole IV Inj 500mg/ml 100ml			8	1.17
											Metronidazole Tabs 200mg 21s			2	0.29
											Metronidazole Tabs 200mg 60s			1	0.15
						Antiviral	**202**	83.82	**515**	75.07					
											Efavirenz Caps 50mg 30s	1	0.41	11	1.60
											Efavirenz Caps 200mg 90s	12	4.98	18	2.62
											Efavirenz Caps 600mg 30s	12	4.98	**97**	14.14
											Lamivudine Oral Sol 10mg/ml 240ml	15	6.22	9	1.31
											Lamivudine Tabs 150mg 60s	**57**	23.65	**155**	22.59
											Lopinavir Syr 60ml	6	2.49		
											Nevirapine Tabs 200mg 60s	31	12.86	**53**	7.73
											Stavudine Caps 15mg 60s	2	0.83		
											Stavudine Caps 20mg 60s	12	4.98	8	1.17
											Stavudine D4t Caps 30mg 60's	27	11.20	**61**	8.89
											Stavudine D4t Caps 40mg 60s	17	7.05	**98**	14.29
											Stavudine D4t Sol 200ml			4	0.58
											Zidovudine Caps 300mg 60s	10	4.15	1	0.15
	Cardiovascular agent			1	0.15										
						Drugs affecting the blood			1	0.15					
											Folic Acid Tabs 5mg 1000s			1	0.15

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Fungal skin infection	Dermatological	12	100	21	100										
						Antifungal (topical)	12	100	21	100					
											Clotrimazole Cream 1% 20g	5	41.67	12	57.14
											Gentian Violet Sol 0.5% 20ml			1	4.76
											Malic Acid, Benz Acid & Salicyl Acid Cream 50g	1	8.33		
											Miconazole Nitrate Cream 2% 40g			1	4.76
											Miconazole Nitrate Oral Gel 2% 30g	5	41.67	1	4.76
											Mupirocin Topical Oint 2% 15g			1	4.76
											Nystatin Vaginal Cream 100 000Iu 60g			1	4.76
											Nystatin Vaginal Tabs 15s	1	8.33	2	9.52
											Selenium Sulphide Shampoo 2.5% 50ml			2	9.52
Scabies	Anti-infective			2	18.18										
						Antibacterial (penicillins)			1	9.09					
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s			1	9.09
						Antibacterial (chloramphenicol, erythromycin)			1	9.09					
											Erythromycin Tabs 250mg 20s			1	9.09
	Dermatological	5	100	9	81.82										
						Scabicides & pediculocides	5	100	9	81.82					
											Benzyl Benzoate Emuls 100ml	5	100	7	63.64
											Monosulfiram Soap 5% 75g			2	18.18
Candidiasis	Anti-infective	18	85.71	4	100										
						Antibacterial (penicillins)	1	4.76							
											Fluconazole Susp 50mg/5ml 35ml	1	4.76		
						Antibacterial (chloramphenicol, erythromycin)			1	25.00					
											Co-trimoxazole Tabs 480mg 20s			1	25.00
						Antifungal (oral/injection)	17	80.95	3	75.00					
											Amphotericin B Lozenges 10mg 20s	1	4.76		
											Griseofulvin Tabs 125mg 100s			1	25.00
											Nystatin Oral Susp 100 000Iu 20ml	16	76.19	2	50.00
	Dermatological	3	14.29												
						Anti-fungal (topical)	3	14.29							
											Miconazole Nitrate Oral Gel 2% 30g	3	14.29		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Cryptococcus - cerebral meningitis	Anti-infective	4	100												
						Antibacterial (penicillins)	2	50.00							
											Fluconazole Inj for IV Infus 2mg/ml 100ml	2	50.00		
						Anti-infective (cephalosporins)	2	50.00							
											Ceftriaxone Inj 1g	2	50.00		
Malaria	Pain reliever			1	100										
						Antimalaria			1	100					
											Chloroquine Tabs 150mg 100s			1	100
Worm infections except tape worm	Gastrolyte	17	100	12	100										
						Antihelmenthic	17	100	12	100					
											Albendazole Susp 100mg/5ml 20ml	8	47.06	2	16.67
											Albendazole Tabs 200mg 2s	9	52.94	10	83.33
Hyper-calcaemia	Anti-infective	1	100												
						Anti-infective (cephalosporins)	1	100							
											Ceftriaxone Inj 1g	1	100		
Malignant neoplasm of testis, unspecified	Anti-infective	7	100												
						Antibacterial (penicillins)	7	100							
											Amoxycillin Caps 500mg 15s	3	42.86		
											Ampicillin Inj 500mg	1	14.29		
											Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	1	14.29		
											Ciprofloxacin Tabs 500mg 10s	1	14.29		
Cancer of penis, unspecified	Anti-infective	2	100												
Cancer of penis, unspecified	Anti-infective	2	100			Antibacterial (penicillins)	1	50.00							
											Ampicillin Inj 500mg	1	50.00		
						Antibacterial (chloramphenicol, erythromycin)	1	50.00							
											Erythromycin Tabs 250mg 20s	1	50.00		
Multiple myeloma	Anti-infective	2	100												
						Antibacterial (penicillins)	2	100							
											Ampicillin Inj 500mg	1	50.00		
											Gentamicin Inj 80mg/2ml 2ml	1	50.00		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Unspecified folate deficiency anemia	Cardiovascular agent	221	100	43	100										
						Antithrombotic and anticoagulant			1	2.33					
											Streptokinase Inj 1 500 000IU			1	2.33
						Drugs affecting the blood	221	100	42	97.67					
											Ferrous Sulphate Co Tabs eq 65mg Fe 28s	1	0.45		
											Folic Acid Tabs 5mg 28s	220	99.55	42	97.67
Unspecified anaemia	Anti-infective	4	2.19												
						Antibacterial (penicillins)	2	1.09							
											Amoxycillin Caps 500mg 15s	1	0.55		
											Phenoxymethyl Penicillin Tabs 250mg 20s	1	0.55		
						Antibacterial (chloramphenicol, erythromycin)	2	1.09							
											Co-trimoxazole Susp 200/40mg/5ml 50ml	1	0.55		
											Metronidazole IV Inj 500mg/ml 100ml	1	0.55		
	Cardiovascular agent	177	96.72	41	97.62										
						Drugs affecting the blood	177	96.72	41	97.62					
											Ferrous Sulphate Co Tabs eq 65mg Fe 28s	137	74.86	30	71.43
											Ferrous Sulphate Co Tabs eq 65mg Fe 84s	18	9.84	10	23.81
											Ferrous Lactate Drops eq 25mg Fe/ml 10ml			1	2.38
											Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	20	10.93		
											Folic Acid Tabs 5mg 28s	1	0.55		
											Phytomenadione IM Inj 10mg/ml 1ml	1	0.55		
	Gastrolyte	2	1.09												
						Antihelmenthic	2	1.09							
											Albendazole Susp 100mg/5ml 20ml	2	1.09		
	Pain reliever			1	2.38										
						Anaesthetic (local)			1	2.38					
											Lignocaine Gel 2% 20g			1	2.38
Unspecified coagulation defects	Anti-infective			1	0.81										
						Antibacterial (penicillins)			1	0.81					
											Amoxycillin Caps 500mg 15s			1	0.81
	Cardiovascular agent	60	42.55	29	23.58										
						Antithrombotic and anticoagulant	57	40.43	28	22.76					
											Enoxaparin Prefilled Syr SC 40mg/0.4ml	5	3.55		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Unspecified coagulation defects	Cardiovascular agent	60	42.55	29	23.58	Antithrombotic and anticoagulant	57	40.43	28	22.76	Balanced Heparin 1250IU/ml 5ml 5s	1	0.71		
											Heparin IV Inj 1 000IU/ml 5ml	2	1.42		
											HeparinIV Inj 5 000IU/ml 5ml	12	8.51		
											Tranexamic Acid Inj 100mg/ml 5ml 5s	19	13.48	3	2.44
											Tranexamic Acid Tabs 500mg 60s	5	3.55	6	4.88
											Warfarin Sodium Tabs 5mg 14s	12	8.51	9	7.32
											Warfarin Sodium Tabs 5mg 42s			7	5.69
											Warfarin Sodium Tabs 5mg 49s			1	0.81
											Warfarin Sodium Tabs 5mg 14s	1	0.71	2	1.63
						Drugs affecting the blood	3	2.13	1	0.81					
											Phytomenadione IM Inj 10mg/ml 1ml	3	2.13	1	0.81
	Pain reliever	81	57.45	93	75.61										
						Analgesics, non-opioids including NSAIMs, gold and anti-gout preparations	81	57.45	93	75.61					
											Aspirin Soluble Tabs 300mg 14s	81	57.45	93	75.61
Hypo-thyroidism, unspecified	Endocrine	9	100												
						Thyroid and parathyroid preparation	9	100							
											Thyroxine Sodium Tabs 100µg 28s	9	100		
Diabetes mellitus type 1	Endocrine	46	100	34	100										
						Antidiabetic agent (injection)	46	100	34	100					
											Insulin Actraphane Hm 100IU/ml 10ml	16	34.78	16	47.06
											Insulin Actraphane Hm 100IU/ml 3ml Penset	6	13.04		
											Insulin Actrapid Hm 100IU/ml 10ml	10	21.74	3	8.82
											Insulin Protaphane Hm 100IU/ml 3ml Penset			2	5.88
											Insulin Needles 1s	14	30.43	13	38.24
Diabetes mellitus type 2	Endocrine	95	100	62	100										
						Antidiabetic agents (injections)	1	1.05							
											Insulin Actraphane Hm 100IU/ml 10ml	1	1.05		
						Antidiabetic agent (oral)	94	98.95	62	100					
											Gliclazide Tabs 80mg 56s	14	14.74	14	22.58
											Gliclazide Tabs 80mg 28s	21	22.11	7	11.29
											Metformin Tabs 850mg 56s	45	47.37	15	24.19
											Metformin Tabs 850mg 84s	14	14.74	26	41.94

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Hypo-glycaemia/ hyper-glycaemia in diabetes mellitus	Anti-infective	2	40.00												
						Antibacterial (penicillins)	1	20.00							
											Amoxycillin Caps 500mg 15s	1	20.00		
						Antibacterial (chloramphenicol, erythromycin)	1	20.00							
											Co-trimoxazole Tabs 480mg 20s	1	20.00		
	Endocrines	3	60.00												
						Antihypoglycaemic agent	3	60.00							
											Glucagon Inj 1mg 1ml	3	60.00		
Pellagra	Cardiovascular agent	2	100												
						Congestive heart failure drugs	2	100							
											Digoxin Tabs 0.25mg 14s	1	50.00		
											Digoxin Tabs 0.25mg 28s	1	50.00		
Vitamin deficiency	Cardiovascular agent	1	0.13												
						Drugs affecting the blood	1	0.13							
											Folic Acid Tabs 5mg 28s	1	0.13		
	Endocrine	1	0.13	1	0.17										
						Thyroid and parathyroid preparation	1	0.13							
											Thyroxine Sodium Tabs 50µg 100s	1	0.13		
						Corticosteroid for systemic use (oral/injection)			1	0.17					
											Prednisone Tabs 5mg 28s			1	0.17
	Gastrolyte	772	99.74	605	99.83										
						Vitamin & mineral	771	99.61	605	99.83					
											Calciferol Tabs 50 000IU 100s			1	0.17
											Potassium Chloride Syr 300mg/5ml 100ml	1	0.13		
											Potassium Chloride Slow Tabs 600mg 14s			1	0.17
											Thiamine IV Inj Vit B1 100mg/ml 10ml	4	0.52		
											Thiamine Tabs 100mg 28s	16	2.07	1	0.17
											Vitamin A Caps 100 000IU 250s	21	2.71	2	0.33
											Vitamin A Tabs 50 000IU 200s	1	0.13		
											Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	11	1.42	76	12.54

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Vitamin deficiency	Gastrolyte	772	99.74	605	99.83	Vitamin & mineral	771	99.61	605	99.83	Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	3	0.39	1	0.17
											Vitamin B Co Inj 10ml (IM)	5	0.65	2	0.33
											Vitamin B Co Strong Tabs 28s	122	15.76	80	13.20
											Vitamin B Co Strong Tabs 1000s	1	0.13		
											Vitamin B Co Syr 100ml	12	1.55	1	0.17
											Vitamin B6 Tabs 25mg 28s	102	13.18	63	10.40
											Vitamin C Tabs 100mg 28s	10	1.29	20	3.30
											Vitamin C Tabs 250mg 100s	19	2.45	42	6.93
											Vitamin E Tabs 100mg 50s			1	0.17
											Vitamin Multiple Oral drops 25ml	2	0.26		
											Vitamin Multiple Syr 100ml	153	19.77	58	9.57
											Vitamin Multiple Tabs 28s	288	37.21	256	42.24
						Feeding and nutritional supplement (oral)	1	0.13							
											Bettaway Children's Own Tabs 60s	1	0.13		
Mineral deficiency	Cardiovascular agent	1	0.88												
						Drugs affecting the blood	1	0.88							
											Folic Acid Tabs 5mg 28s	1	0.88		
	Gastrolyte	113	99.12	53	100										
						Vitamin & mineral	107	93.86	53	100					
											Calcitriol Caps 0.25mg 30s	6	5.26		
											Calcium Carbonate & Glycine Tabs 420mg 300s	4	3.51		
											Calcium Gluconate Tabs 300mg 28s	3	2.63	10	18.87
											Magnesium Chloride Tabs 500-700mg 100s	2	1.75		
											Potassium Chloride Syr 300mg/5ml 100ml	32	28.07		
											Potassium Chloride Inj 15% 10ml			1	1.89
											Potassium Chloride Slow Tabs 600mg 14s	43	37.72	27	50.94
											Potassium Citrate Mixture 100ml	15	13.16	15	28.30
											Vitamin A Caps 100 000IU 250s	1	0.88		
											Vitamin Multiple Syr 100ml	1	0.88		
						Feeding and nutritional supplement (oral)	6	5.26							
											Vi-Daylin Syrup with Minerals 150ml	6	5.26		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Cholesterol	Cardiovascular agent	4	100	5	100										
						Hypolipidaemic agent	4	100	5	100					
											Cholestyramine Powder 4g 50s	1	25.00		
											Simvastatin Tabs 10mg 28s			3	60.00
											Simvastatin Tabs 20mg 28s	3	75.00	2	40.00
Sodium & water disturbances	Gastrolyte	1	100	61	100										
						Antacid / anti-ulcer	1	100							
											Aluminium Hydroxide Susp 350ml	1	100		
Disorders of acid-base balance	Dermatological	7	6.73												
						Ear and nose preparation	7	6.73							
											Sodium Bicarbonate Powder 500g	7	6.73		
	Gastrolyte	97	93.27												
						Antacid / anti-ulcer	96	92.31	60	98.36					
											Aluminium Hydroxide Susp 350ml	43	41.35	37	60.66
											Cimetidine IV Inj 100mg/ml 2ml	17	16.35	1	1.64
											Cimetidine Tabs 200mg 30s	9	8.65	8	13.11
											Cimetidine Tabs 400mg 60s	20	19.23	11	18.03
											Magnesium Trisillicate Co Mixt 200ml	1	0.96	1	1.64
											Ranitidine HCl Tabs 300mg 30s	1	0.96		
											Omeprazole Caps 20mg 30s	5	4.81	2	3.28
						Constipation, digestants, liver & bile preparations			1	1.64					
											Sodium Sulphate, Sodium Bicarbonate, Sodium Chloride, Potassium Chloride powder 59g			1	1.64
						Electrolyte and acid-base distrubance (parenteral)	1	0.96							
											Ringers Lactate Sol 1000ml	1	0.96		
Other disorders of fluid & electrolyte balance	Anti-infective	8	5.80	2	7.14										
						Antibacterial (penicillins)	6	4.35	1	3.57					
											Amoxycillin Susp 125mg/5ml 100ml	1	0.72	1	3.57
											Ampicillin Inj 250mg	2	1.45		
											Gentamicin Inj 40mg/ml 1ml	3	2.17		
						Anti-infective (cephalosporins)	2	1.45							
											Ceftriaxone IM Inj 250mg	2	1.45		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Other disorders of fluid & electrolyte balance	Anti-infective	8	5.8	2	7.14	Antibacterial (chloramphenicol, erythromycin)			1	3.57					
											Co-trimoxazole Susp 200/40mg/5ml 50ml			1	3.57
	Gastrolyte	130	94.20	26	92.86										
						Antacid / anti-ulcer	11	7.97	3	10.71					
											Aluminium Hydroxide Susp 350ml	6	4.35	1	3.57
						Antacid / anti-ulcer	11	7.97	3	10.71	Cimetidine IV Inj 100mg/ml 2ml	3	2.17		
											Cimetidine Tabs 200mg 30s	2	1.45		
											Cimetidine Tabs 400mg 60s			1	3.57
											Ranitidine Inj 25mg/ml 2ml			1	3.57
						Antidiarrhoea & ulcerative colitis			1	3.57					
											Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s			1	3.57
						Constipation, digestants, liver & bile preparations	33	23.91	18	64.29					
											Sodium Sulphate, Sodium Bicarbonate, Sodium Chloride, Potassium Chloride powder 59g	33	23.91	18	64.29
						Electrolyte and acid-base distrubance (parenteral)	78	56.52	3	10.71					
											Electrolyte no 2 Sol 1000ml	2	1.45		
											Ringers Lactate Sol 200ml	1	0.72		
											Ringers Lactate Sol 1000ml	48	34.78		
											Sodium Chloride 0.9% for Irrigation 1000ml	1	0.72	1	3.57
											Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.72		
											Sodium Chloride 0.9% Inj 1000ml	21	15.22	2	7.14
											Sodium Chloride 0.9% Inj 50ml	1	0.72		
											Sodium Chloride 0.9% Inj 200ml	2	1.45		
											Water for Inj 10ml	1	0.72		
						Feeding and nutritional supplements (parenteral)	8	5.80	1	3.57					
											Dextrose Sol for IV Infus 5% 50ml	2	1.45		
											Dextrose Sol for IV Infus 5% 1000ml	4	2.90		
											Dextrose Sol for IV Infus 10% 1000ml			1	3.57
											Destrose Sol for IV Infus 50% 500ml	1	0.72		
											Dextrose in Water Inj 50% 20ml	1	0.72		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Schizophrenic disorders	Functional			4	100										
						Psychiatric disorder (schizophrenia)			4	100					
											Fluphenazine Decanoate Inj 25mg/ml 1ml			2	50.00
											Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml			2	50.00
Bipolar affective disorders	Functional	1	100												
						Psycotic disorder	1	100							
											Haloperidol Tabs 5mg 14s	1	100		
Bipolar disorders	Anti-infective			1	3.45										
						Antibacterial (penicillins)			1	3.45					
											Amoxycillin Caps 500mg 15s			1	3.45
	Functional	66	100	28	96.55										
						Psycotic disorder	64	96.97	28	96.55					
											Chlorpromazine Inj 25mg/ml 1ml	1	1.52		
											Chlorpromazine Tabs 50mg 500s	4	6.06	7	24.14
											Chlorpromazine Tabs 100mg 500s			3	10.34
											Haloperidol Inj 5mg/ml 1ml	9	13.64		
											Haloperidol Tabs 5mg 14s	40	60.61	1	3.45
											Haloperidol Tabs 5mg 56s	5	7.58	4	13.79
											Chlorpromazine Tabs 25mg 28s	5	7.58	13	44.83
						Mood disorder	2	3.03							
											Fluoxetine Caps 20mg 28s	2	3.03		
Major depressive disorder	Functional	93	100	103	100										
						Mood disorder	93	100	103	100					
											Amitriptyline Tabs 25mg 28s	68	73.12	80	77.76
											Fluoxetine Caps 20mg 28s	23	24.73	22	21.36
											Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	1	1.08		
											Imipramine Tabs 25mg 28s			1	0.97
											Hydroxyzine Tabs 25mg 100s	1	1.08		
Meningitis, bacterial	Anti-infective	6	100												
						Anti-infective (cephalosporins)	4	66.67							
											Ceftriaxone Inj 1g	4	66.67		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Meningitis, bacterial	Anti-infective	6	100			Antibacterial (chloramphenicol, erythromycin)	2	33.33							
											Co-trimoxazole Susp 200/40mg/5ml 50ml	2	33.33		
Inflammation	Dermatological	19	14.29	50	29.76										
						Antipruritic & anti-inflammatory agent	17	12.78	42	25.00					
											Hydrocortisone Cream 1% 20g			8	4.76
						Antipruritic & anti-inflammatory agent	17	12.78	42	25.00	Indomethacin Caps 25mg 28s	12	9.02	30	17.86
											Indomethacin Supps 100mg 10s	5	3.76	3	1.79
											Sulfasalazine Tabs 500mg 100s			1	0.60
						Ear and nose preparation			2	1.19					
											Acetic Acid Ear Drops 2% in alcohol			2	1.19
						Corticosteroid for topical use	2	1.50	6	3.57					
											Betamethasone Valerate Cream 0.1% 15g	2	1.50	6	3.57
	Endocrine	110	82.71	117	69.64										
						Corticosteroid for systemic use (oral/injection)	110	82.71	117	69.64					
											Dexamethasone IM Inj 4mg/ml 1ml	7	5.26	1	0.60
											Hydrocortisone Sodium Succ Inj 100mg/2ml 2ml 5s	23	17.29	4	2.38
											Methylprednisolone Inj 40mg/ml 1ml	2	1.50	2	1.19
											Methylprednisolone Inj 40mg/ml 2ml			1	0.60
											Prednisolone Syr 15mg/5ml 50ml	7	5.26	2	1.19
											Prednisone Tabs 5mg 28s	71	53.38	98	58.33
											Prednisone Tabs 5mg 100s			8	4.76
											Betamethasone Inj 4mg/ml 1ml			1	0.60
	Gastrolyte			1	0.60										
						Electrolyte and acid-base distrubance (parenteral)			1	0.60					
											Calcium Folinate Tabs 15mg			1	0.60
	Pain reliever	4	3.01												
						Analgesics, non-opioids including NSAIMs, gold and anti-gout preparation	4	3.01							
											Diclofenac Inj 25mg/ml 3ml	1	0.75		
											Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	3	2.26		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Parkinsonism	Functional	7	100	2	100										
						Antiparkinsonism	7	100	2	100					
											Bromocriptine Mesylate Tabs 2.5mg 30s	3	42.86	2	100
											Biperidin Inj 5mg/ml 5ml	1	14.29		
											Carbidopa 25mg & Levodopa 250mg 100s	3	42.86		
Symptomatic epilepsy with complex partial seizures	Anti-infective	10	100												
						Antibacterial (penicillins)	4	40.00							
											Amoxycillin Susp 250mg/5ml 100ml	1	10.00		
											Ampicillin Inj 250mg	1	10.00		
											Ampicillin Inj 500mg	1	10.00		
						Antibacterial (penicillins)	4	40.00			Gentamicin Inj 40mg/ml 1ml	1	10.00		
						Anti-infective (cephalosporins)	4	40.00							
											Ceftriaxone IM Inj 250mg	4	40.00		
						Antibacterial (chloramphenicol, erythromycin)	2	20.00							
											Co-trimoxazole Susp 200/40mg/5ml 50ml	2	20.00		
Epilepsy	Anti-infective	3	2.56												
						Antibacterial (penicillins)	3	2.56							
											Ampicillin Inj 250mg	2	1.71		
											Gentamicin Inj 80mg/2ml 2ml	1	0.85		
	Functional	114	97.44	181	100										
						Anti-epileptic	114	97.44	181	100					
											Carbamazepine Susp 100mg/5ml 250ml			1	0.55
											Carbamazepine CR Tabs 200mg 30s	35	29.91	63	34.81
											Carbamazepine CR Tabs 400mg 30s	9	7.69	65	35.91
											Clonazepam Inj 1mg/ml 1ml	1	0.85		
											Lamotrigine Tabs 25mg 60s	1	0.85	3	1.66
											Lorazepam Inj 4mg/ml 1ml	14	11.97		
											Lorazepam Tabs 1mg 100s	1	0.85	3	1.66
											Lorazepam Tabs 2.5mg 100s			1	0.55
											Phenobarbitone Tabs 30mg 28's	12	10.26	4	2.21
											Phenobarbitone Tabs 30mg 56s	5	4.27	20	11.05
											Phenobarbitone Vit Nicot Syrup 100ml	2	1.71	1	0.55

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Epilepsy	Functional	114	97.44	181	100	Anti-epileptic	114	97.44	181	100	Phenytoin Caps 100mg 84s	26	22.22	5	2.76
											Phenytoin Inj 50mg/ml 5ml	5	4.27		
											Sodium Valproate Liquid Sugar Free 200mg 300ml	3	2.56	1	0.55
											Sodium Valproate Tabs 200mg 28s			5	2.76
											Sodium Valproate Tabs Cr 300mg 84s			1	0.55
											Valproic Acid Caps 150mg 56s			2	1.10
											Valproic Acid Caps 500mg 100s			2	1.10
											Lamotrigine Tabs 25mg 28s			4	2.21
Status epileptics, unspecified	Anti-infective	1	100			Anti-infective (cephalosporins)	1	100			Cefotaxime Inj 1g/15ml	1	100		
Acute inflammatin of orbit (cellulites of the eye)	Anti-infective	8	100			Antibacterial (penicillins)	5	62.50			Cloxacillin IV Inj 500mg	2	25.00		
											Flucloxacillin Caps 250mg 20s	1	12.50		
											Gentamicin Inj 80mg/2ml 2ml	2	25.00		
						Antibacterial (chloramphenicol, erythromycin)	3	37.50			Metronidazole IV Inj 500mg/ml 100ml	2	25.00		
											Metronidazole Tabs 200mg 21s	1	12.50		
Conjunctivitis	Anti-infective			1	3.70	Antibacterial (penicillins)			1	3.70	Amoxycillin Susp 125mg/5ml 100ml			1	3.70
	Dermatological	8	100	26	96.30	Eye preparation (anti-infective)	7	87.50	13	48.15	Acyclovir Tabs 200mg 25s			2	7.41
											Chloramphenicol Eye Drops 0.5% 10ml			3	11.11
											Chloramphenicol Eye Oint 1% 3.5g	7	87.50	8	29.63
						Hypolipidaemic agent	1	12.50	13	48.15	Antazoline Tetrahydrozoline Eye Drops 10ml	1	12.50	13	48.15
Otitis externa	Anti-infective			1	100	Antibacterial (penicillins)			1	100	Amoxycillin Caps 500mg 15s			1	100

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Otitis media	Anti-infective	5	100												
						Antibacterial (penicillins)	1	20.00							
											Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	20.00		
						Antibacterial (chloramphenicol, erythromycin)	4	80.00							
											Co-trimoxazole Susp 200/40mg/5ml 50ml	2	40.00		
											Erythromycin Susp 125mg/5ml 100ml	1	20.00		
											Erythromycin Tabs 250mg 20s	1	20.00		
Rheumatic fever without mentioning of heart involvement	Anti-infective	15	100												
						Antibacterial (penicillins)	7	46.67							
											Amoxycillin Caps 500mg 15s	1	6.67		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	6.67		
											Fluconazole Inj for IV Infus 2mg/ml 100ml	1	6.67		
											Gentamicin Inj 80mg/2ml 2ml	2	13.33		
											Ketoconazole Tabs 200mg 30s	1	6.67		
											Phenoxymethyl Penicillin Tabs 250mg 20s	1	6.67		
						Anti-infective (cephalosporins)	4	26.67							
											Ceftriaxone Inj 1g	4	26.67		
						Antibacterial (chloramphenicol, erythromycin)	4	26.67							
											Metronidazole IV Inj 500mg/ml 100ml	3	20.00		
											Metronidazole Tabs 200mg 21s	1	6.67		
Hypertension	Anti-infective	4	0.85												
						Antibacterial (penicillins)	1	0.21							
											Amoxycillin Caps 500mg 15s	1	0.21		
						Antiviral	3	0.64							
											Nevirapine Tabs 200mg 60s	3	0.64		
	Cardiovascular agent	**467**	99.15	**440**	100										
						Anti-angina			1	0.23					
											Glyceryl Trinitrate SL Tabs 0.5mg 50s			1	0.23
						Antihypertensive	**466**	98.94	439	99.77					

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Hypertension	Cardiovascular agent	467	99.15	440	100	Antihypertensive	466	98.94	439	99.77	Amlodipine Besylate Tabs 5mg 30s	12	2.55		
											Atenolol Tabs 50mg 28s	39	8.28	21	4.77
											Atenolol Tabs 100mg 28s	3	0.64	4	0.91
											Enalapril Tabs 5mg 28s	17	3.61	3	0.68
											Enalapril Tabs 10mg 28s	20	4.25	52	11.82
											Enalapril Tabs 20mg 28s	9	1.91	14	3.18
											Furosemide Tabs 40mg 28s	39	8.28	37	8.41
											Furosemide Tabs 40mg 56s	4	0.85	2	0.45
											Furosemide Tabs 40mg 84s	1	0.21		
											Furosemide Tabs 40mg 250s			1	0.23
											Furosemide Inj 10mg/ml 2ml	33	7.01		
											Furosemide Inj 10mg/ml 25ml	2	0.42	1	0.23
											Hydralazine Tabs 25mg 500s			1	0.23
											Hydrochlorothiazide Tabs 25mg 14s	19	4.03	9	2.05
											Hydrochlorothiazide Tabs 25mg 28s	71	15.07	116	26.36
											Indapamide Tabs 2.5mg 30s	18	3.82	14	3.18
											Mannitol Inj for IV use 20% 50ml	1	0.21		
											Methyldopa Tabs 250mg 56s	1	0.21	1	0.23
											Nifedipine Caps 5mg 100s	10	2.12	1	0.23
											Nifedipine Tabs SR 30mg 28s	22	4.67	35	7.95
											Nifedipine Tabs SR 60mg 28s	19	4.03	44	10.00
											Perindopril Tabs 4mg 28s	93	19.75	59	13.41
											Prazosin Tabs 1mg 14s	1	0.21	8	1.82
											Prazosin Tabs 5mg 30s			3	0.68
											Propranolol Tabs 10mg 60s	3	0.64	2	0.45
											Propranolol Tabs 40mg 28s	1	0.21		
											Spironolactone Tabs 25mg 240s	15	3.18	11	2.50
											Spironolactone Tabs 25mg 14s	13	2.76		
						Congestive heart failure drugs	1	0.21							
											Digoxin Tabs 0.25mg 14s	1	0.21		
Angina	Anti-infective	1	9.09												
						Antibacterial (penicillins)	1	9.09							
											Amoxycillin Caps 500mg 15s	1	9.09		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Angina	Cardiovascular agent	9	81.82	8	100										
						Anti-angina	9	81.82	8	100					
											Glyceryl Trinitrate SL Tabs 0.5mg 50s	9	81.82	8	100
	Functional	1	9.09												
						Anti-epileptic	1	9.09							
											Lorazepam Inj 4mg/ml 1ml	1	9.09		
Congestive cardiac failure	Anti-infective	13	100												
						Antibacterial (penicillins)	8	61.54							
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	4	30.77		
											Ampicillin Inj 500mg	4	30.77		
						Antibacterial (chloramphenicol, erythromycin)	5	38.46							
											Co-trimoxazole Tabs 480mg 20s	1	7.69		
											Doxycycline Caps 100mg 14s	2	15.38		
											Metronidazole Tabs 200mg 21s	2	15.38		
Cardial failure	Cardiovascular agent	14	100	17	100										
						Congestive heart failure drugs	14	100	17	100					
											Digoxin Tabs 0.25mg 14s	13	92.86	14	82.35
											Digoxin Tabs 0.25mg 28s	1	7.14	3	17.65
Arterio-sclerotic gangrene	Anti-infective	2	100												
						Antibacterial (penicillins)	2	100							
											Ampicillin Inj 500mg	1	50.00		
											Gentamicin Inj 80mg/2ml 2ml	1	50.00		
Haemorrhoids	Anti-infective			2	18.18										
						Antibacterial (penicillins)			1	9.09					
											Flucloxacillin Caps 250mg 20s			1	9.09
						Antibacterial (chloramphenicol, erythromycin)			1	9.09					
											Metronidazole Tabs 200mg 21s			1	9.09
	Gastrolyte	6	100	9	81.82										
						Antihaemorrhoidal	6	100	9	81.82					
											Bismuth Sub Oxi Res Nic Zinc Oint 25g			1	9.09
											Bismuth Sub Oxi Res Nic Ainc Supps 10s	6	100	8	72.73

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Sinusitis	Anti-infective	1	33.33	1	4.35										
						Antibacterial (penicillins)	1	33.30	1	4.35					
											Amoxycillin Caps 500mg 15s	1	33.33		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s			1	4.35
	Dermatological	1	33.33	13	56.52										
						Ear and nose preparation	1	33.33	13	56.52					
											Oxymetazoline Nose Drops 0.025% 10ml			1	4.35
											Sodium Chloride Nose Drops 0.9% 10ml	1	33.33	12	52.17
	Respiratory agent	1	33.33	9	39.13										
						Decongestant (cold/flu)	1	33.33	9	39.13					
											Pseudoephedrine Sulphate Syr 30mg/5ml 50ml			1	4.35
											Pseudoephedrine Tabs 60mg 20s	1	33.33	8	34.78
Tonsillitis (bacterial)	Anti-infective	10	100	5	100										
						Antibacterial (penicillins)	8	80.00	4	80.00					
											Amoxycillin Caps 500mg 15s			1	20.00
											Amoxycillin Susp 250mg/5ml 100ml	1	10.00		
											Benzathine Penicillin G Inj. 2.4Mu Vials			2	40.00
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	10.00		
											Ampicillin Inj 250mg	1	10.00		
											Ampicillin Inj 500mg	2	20.00		
											Gentamicin Inj 80mg/2ml 2ml	3	30.00		
											Phenoxymethyl Penicillin Tabs 250mg 20s			1	20.00
						Anti-infective (cephalosporins)	2	20.00							
											Cefotaxime Inj 500mg	1	10.00		
											Ceftriaxone Inj 1g	1	10.00		
						Antibacterial (chloramphenicol, erythromycin)			1	20.00					
											Erythromycin Tabs 250mg 20s			1	20.00
Gastro-enteritis	Anti-infective	5	100												
						Antibacterial (penicillins)	5	100							
											Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	20.00		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Gastro-enteritis	Anti-infective	5	100			Antibacterial (penicillins)	5	100			Ampicillin Inj 250mg	2	40.00		
											Gentamicin Inj 40mg/ml 1ml	2	40.00		
Acute upper respiratory track infection, unspecified	Anti-infective	2	100	16	100										
						Antibacterial (penicillins)	2	100	14	87.50					
											Amoxycillin Caps 500mg 15s			5	31.25
											Amoxycillin Susp 125mg/5ml 100ml			3	18.75
											Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml			2	12.50
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s			4	25.00
											Ampicillin Inj 250mg	1	50.00		
											Gentamicin Inj 40mg/ml 1ml	1	50.00		
						Anti-infective (cephalosporins)			1	6.25					
											Ceftriaxone Inj 1g			1	6.25
						Antibacterial (chloramphenicol, erythromycin)			1	6.25					
											Co-trimoxazole Susp 200/40mg/5ml 50ml			1	6.25
Brongo-pneumonia, unspecified	Anti-infective	45	100	1	100										
						Antibacterial (penicillins)	36	80.00	1	100					
											Amoxycillin Caps 500mg 15s	1	2.22	1	100
											Amoxycillin Susp 125mg/5ml 100ml	2	4.44		
											Amoxycillin Susp 250mg/5ml 100ml	2	4.44		
											Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	2.22		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	2.22		
											Ampicillin Inj 250mg	11	24.44		
											Ampicillin Inj 500mg	4	8.89		
											Gentamicin Inj 40mg/ml 1ml	6	13.33		
											Gentamicin Inj 80mg/2ml 2ml	8	17.78		
						Anti-infective (cephalosporins)	2	4.44							
											Ceftriaxone IM Inj 250mg	2	4.44		
						Antibacterial (chloramphenicol,	7	15.56							
											Co-trimoxazole Tabs 480mg 20s	1	2.22		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Bronco-pneumonia, unspecified	Anti-infective	45	100	1	100	Antibacterial (chloramphenicol, erythromycin)	7	15.56			Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	2.22		
											Co-trimoxazole Susp 200/40mg/5ml 50ml	4	8.89		
											Metronidazole Tabs 200mg 21s	1	2.22		
Pneumonia, unspecified	Anti-infective	85	100												
						Antibacterial (penicillins)	52	61.18							
											Amoxycillin Caps 250mg 15s	1	1.18		
											Amoxycillin Caps 500mg 15s	2	2.35		
											Amoxycillin Susp 125mg/5ml 100ml	3	3.53		
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	4	4.71		
											Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	1.18		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	10	11.76		
											Ampicillin Inj 250mg	3	3.53		
											Ampicillin Inj 500mg	11	12.94		
											Fluconazole Caps 200mg 28s	2	2.35		
											Gentamicin Inj 40mg/ml 1ml	2	2.35		
											Gentamicin Inj 80mg/2ml 2ml	10	11.76		
											Ketoconazole Tabs 200mg 30s	3	3.53		
						Anti-infective (cephalosporins)	5	5.88							
											Ceftriaxone IM Inj 250mg	3	3.53		
											Ceftriaxone Inj 1g	2	2.35		
						Antibacterial (chloramphenicol, erythromycin)	28	32.94							
											Co-trimoxazole Tabs 480mg 20s	7	8.24		
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	5	5.88		
											Co-trimoxazole Susp 200/40mg/5ml 50ml	4	4.71		
											Erythromycin Tabs 250mg 20s	1	1.18		
											Metronidazole IV Inj 500mg/ml 100ml	7	8.24		
											Metronidazole Tabs 200mg 21s	4	4.71		
Allergic rhinitis	Respiratory agent			1	100										
						Antihistamine for systemic use			1	100					
											Chlorpheniramine Mal Tabs 4mg 30s			1	100

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Chronic obstructive pulmonary disease with acute lower respiratory infection	Anti-infective	35	100	5	100										
						Antibacterial (penicillins)	25	71.43	4	80.00					
											Amoxycillin Caps 250mg 15s			1	20.00
											Amoxycillin Caps 500mg 15s			1	20.00
											Amoxycillin Susp 125mg/5ml 100ml	5	14.29		
											Amoxycillin Susp 250mg/5ml 100ml			2	40.00
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	2.86		
											Ampicillin Inj 250mg	5	14.29		
											Ampicillin Inj 500mg	5	14.29		
											Benzylpenicillin G Inj 1Mu 50s	1	2.86		
											Gentamicin Inj 40mg/ml 1ml	7	20.00		
											Gentamicin Inj 80mg/2ml 2ml	1	2.86		
						Anti-infective (cephalosporins)	2	5.71							
											Ceftriaxone IM Inj 250mg	2	5.71		
						Antibacterial (chloramphenicol, erythromycin)	8	22.86	1	20.00					
											Co-trimoxazole Tabs 480mg 20s	2	5.71		
											Co-trimoxazole Susp 200/40mg/5ml 50ml	6	17.14	1	20.00
Asthma, acute OR asthma, chronic persistent	Anti-infective	1	0.68												
						Antibacterial (penicillins)	1	0.68							
											Amoxycillin Caps 500mg 15s	1	0.68		
	Endocrine	31	20.95	24	15.79										
						Corticosteroid for systemic use (oral/injection)	31	20.95	24	15.79					
											Fludrocortisone Acetate Tabs 0.1mg 100s			1	0.66
											Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	2	1.35	2	1.32
											Methylprednisolone Inj 40mg/ml 1ml			1	0.66
											Prednisolone Syr 15mg/5ml 50ml	4	2.70		
											Prednisone Tabs 5mg 28s	24	16.22	20	13.16
											Prednisone Tabs 5mg 100s	1	0.68		
	Respiratory agent	116	78.38	128	84.21										
						Anti-asthmatic & mucolytic	116	78.38	128	84.21					
											Beclomethasone MDI 100mg 200 dose	2	1.35	13	8.55
											Beclomethasone Nasal Spray Aqueous 50mg	1	0.68		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Asthma, acute OR asthma, chronic persistent	Respiratory agent	**116**	78.38	**128**	84.21	Anti-asthmatic & mucolytic	**116**	78.38	**128**	84.21	*Budesonide MDI 200mg 300 dose*	1	0.68	1	0.66
											Fenoterol Inhaler Complete 100	1	0.68		
											Fenoterol UDV 0.5mg/2ml 60s	9	6.08	3	1.97
											Ipratropium UDV 0.25mg/2ml 2ml 60s	3	2.03		
											Ipratropium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s			1	0.66
											Salbutamol MDI Complete 100mg 200 dose	9	6.08	31	20.39
											Salbutamol Syr 2mg/5ml 150ml	17	11.49	4	2.63
											Salbutamol Tabs 2mg 28s	1	0.68	2	1.32
											Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	10	6.76	7	4.61
											Salmeterol Accuhaler 0.05mg 60 Dose			2	1.32
											Theophylline Syr 200ml	**51**	34.46	**47**	30.92
											Theophylline Syr 25mg/5ml 500ml	1	0.68		
											Theophylline Anhydrous Tabs 200mg 60s	5	3.38	14	9.21
											Theophylline Anhydrous Tabs 250mg 56s	5	3.38	3	1.97
Abscess of the lung without pneumonia	Anti-infective	22	100												
						Antibacterial (penicillins)	12	54.55							
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	4.55		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	3	13.64		
											Ampicillin Inj 500mg	2	9.09		
											Fluconazole Inj for IV Infus 2mg/ml 100ml	1	4.55		
											Gentamicin Inj 80mg/2ml 2ml	5	22.73		
						Anti-infective (cephalosporins)	1	4.55							
											Ceftriaxone Inj 1g	1	4.55		
						Antibacterial (chloramphenicol, erythromycin)	9	40.91							
											Co-trimoxazole Tabs 480mg 20s	2	9.09		
											Erythromycin Tabs 250mg 20s	1	4.55		
											Metronidazole IV Inj 500mg/ml 100ml	4	18.18		
											Metronidazole Tabs 200mg 21s	2	9.09		
Haemothorax	Anti-infective	2	100												
						Antibacterial (penicillins)	2	100							
											Amoxycillin Caps 500mg 15s	1	50.00		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Haemothorax	Anti-infective	2	100			Antibacterial (penicillins)	2	100			Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	50.00		
Dental abscess	Anti-infective	2	20.00	5	15.63										
						Antibacterial (penicillins)	1	10.00	3	9.38					
											Amoxycillin Caps 250mg 15s			1	3.13
											Amoxycillin Susp 125mg/5ml 100ml	1	10.00	1	3.13
											Ciprofloxacin Tabs 500mg 10s			1	3.13
						Antibacterial (chloramphenicol, erythromycin)	1	10.00	2	6.25					
											Metronidazole Tabs 200mg 21s	1	10.00	1	3.13
											Metronidazole Susp 200mg/5ml 50ml			1	3.13
	Gastrolyte	8	80.00	27	84.38										
						Mouthwash & throat preparation	8	80.00	27	84.38					
											Thymol Glycerine B.P. Mouth wash 100ml	8	80.00	27	84.38
Mouth abscess	Anti-infective	22	100	7	100										
						Antibacterial (penicillins)	14	63.64	4	57.14					
											Amoxycillin Caps 250mg 15s	1	4.55	1	14.29
											Amoxycillin Susp 125mg/5ml 100ml			1	14.29
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	4.55		
											Ampicillin Inj 250mg	2	9.09		
											Ampicillin Inj 500mg	3	13.64		
											Benzylpenicillin G Inj 1Mu 50s	1	4.55		
											Ciprofloxacin Tabs 500mg 10s			1	14.29
											Flucloxacillin Caps 250mg 20s	1	4.55	1	14.29
											Gentamicin Inj 80mg/2ml 2ml	4	18.18		
											Phenoxymethyl Penicillin Tabs 250mg 20s	1	4.55		
						Anti-infective (cephalosporins)	2	9.09							
											Cefazolin Inj 500mg	1	4.55		
											Ceftriaxone Inj 1g	1	4.55		
						Antibacterial (chloramphenicol, erythromycin)	6	27.27	3	42.86					
											Co-trimoxazole Tabs 480mg 20s	2	9.09		
											Metronidazole IV Inj 500mg/ml 100ml	3	13.64		
											Metronidazole Tabs 200mg 21s	1	4.55	2	28.57
											Metronidazole Susp 200mg/5ml 50ml			1	14.29

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Peptic ulcer	Anti-infective	15	100												
						Antibacterial (penicillins)	8	53.33							
											Amoxycillin Caps 500mg 15s	2	13.33		
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	6.67		
											Ampicillin Inj 500mg	3	20.00		
											Fluconazole Inj for IV Infus 2mg/ml 100ml	1	6.67		
											Gentamicin Inj 80mg/2ml 2ml	1	6.67		
						Antibacterial (chloramphenicol, erythromycin)	7	46.67							
											Co-trimoxazole Tabs 480mg 20s	1	6.67		
											Metronidazole IV Inj 500mg/ml 100ml	3	20.00		
											Metronidazole Tabs 200mg 21s	3	20.00		
Gastritis - acute haemorrhagic	Anti-infective	25	100												
						Antibacterial (penicillins)	17	68.00							
											Amoxycillin Caps 500mg 15s	7	28.00		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	4.00		
											Ampicillin Inj 500mg	3	12.00		
											Flucloxacillin Caps 250mg 20s	1	4.00		
											Fluconazole Inj for IV Infus 2mg/ml 100ml	1	4.00		
											Gentamicin Inj 80mg/2ml 2ml	3	12.00		
											Ketoconazole Tabs 200mg 30s	1	4.00		
						Antibacterial (chloramphenicol, erythromycin)	8	32.00							
											Co-trimoxazole Tabs 480mg 20s	1	4.00		
											Metronidazole IV Inj 500mg/ml 100ml	2	8.00		
											Metronidazole Tabs 200mg 21s	5	20.00		
Appendicitis, unspecified	Anti-infective	3	100												
						Antibacterial (penicillins)	2	66.67							
											Ampicillin Inj 500mg	1	33.33		
											Gentamicin Inj 80mg/2ml 2ml	1	33.33		
						Antibacterial (chloramphenicol, erythromycin)	1	33.33							
											Metronidazole IV Inj 500mg/ml 100ml	1	33.33		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Urinary tract infection	Anti-infective	3	100												
						Antibacterial (penicillins)	1	33.33							
											Amoxycillin Caps 500mg 15s	1	33.33		
						Antibacterial (chloramphenicol, *erythromycin*)	2	66.67							
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	33.33		
											Metronidazole Tabs 200mg 21s	1	33.33		
Constipation	Anti-infective	10	28.57												
						Antibacterial (penicillins)	6	17.14							
											Ampicillin Inj 250mg	1	2.86		
											Ampicillin Inj 500mg	3	8.57		
											Ketoconazole Tabs 200mg 30s	2	5.71		
						Antibacterial (chloramphenicol, erythromycin)	4	11.43							
											Co-trimoxazole Tabs 480mg 20s	3	8.57		
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	2.86		
	Gastrolyte	25	71.43	10	100										
						Cathartic drug / laxative	17	48.57	4	40.00					
											Bisacodyl Supps 10mg 10s	1	2.86		
											Glycerine Supps Adult 12s	1	2.86		
											Lactulose Syr 3.35mg/5ml 150ml	8	22.86	2	20.00
											Senna Tabs 1000s	2	5.71		
											Senna Tabs 7.5mg 12s	4	11.43	2	20.00
											Sodium Phosphate Enema Sol 135ml	1	2.86		
						Constipation, digestants, liver & bile preparations	8	22.86	6	60.00					
											Liquid Paraffin 200ml	8	22.86	6	60.00
Alcohol liver disease, unspecified	Anti-infective	4	100												
						Antibacterial (penicillins)	2	50.00							
											Ampicillin Inj 500mg	1	25.00		
											Fluconazole Caps 200mg 28s	1	25.00		
						Antibacterial (chloramphenicol, erythromycin)	2	50.00							
											Co-trimoxazole Tabs 480mg 20s	2	50.00		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Gastro-intestinal haemorrhage, unspecified	Anti-infective	2	100												
						Antibacterial (penicillins)	1	50.00							
											Amoxycillin Caps 500mg 15s	1	50.00		
						Antibacterial (chloramphenicol, erythromycin)	1	50.00							
											Metronidazole IV Inj 500mg/ml 100ml	1	50.00		
Abdominal cramps	Anti-infective	5	16.13	1	4.76										
						Antibacterial (penicillins)	4	12.90	1	4.76					
											Amoxycillin Caps 500mg 15s			1	4.76
											Ampicillin Inj 250mg	1	3.23		
											Ampicillin Inj 500mg	1	3.23		
											Gentamicin Inj 40mg/ml 1ml	1	3.23		
											Gentamicin Inj 80mg/2ml 2ml	1	3.23		
						Antibacterial (chloramphenicol, erythromycin)	1	3.23							
											Metronidazole IV Inj 500mg/ml 100ml	1	3.23		
	Functional			1	4.76										
						Muscle relaxant (central & peripherally acting)			1	4.76					
											Orphenadrine Tabs 50mg 28s			1	4.76
	Gastrolyte	26	83.87	19	90.48										
						Anti-emetic	2	6.45							
											Metoclopramide Inj 5mg/ml 2ml	1	3.23		
											Sucralfate Tabs 1g 120s	1	3.23		
						Antispasmodic & anticholinergic	24	77.42	19	90.48					
											Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	13	41.94	5	23.81
											Hyoscine-N-Butylbromide Syr 100ml	1	3.23	1	4.76
											Hyoscine-N-Butylbromide Tabs 10mg 10s	10	32.26	8	38.10
											Hyoscine-N-Butylbromide Inj 50mg/ml			2	9.52
											Hyoscine-N-Butylbromide Tabs 10mg 15s			3	14.29
Boils / impetigo	Anti-infective	3	100	1	100										
						Antibacterial (penicillins)	2	66.67	1	100					
											Amoxycillin Susp 125mg/5ml 100ml	2	66.67	1	100
						Anti-infective (cephalosporins)	1	33.33							
											Cefotaxime Inj 1g/15ml	1	33.33		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Unspecified cellulitis	Anti-infective	16	100												
						Antibacterial (penicillins)	10	62.50							
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	2	12.50		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	4	25.00		
											Ampicillin Inj 500mg	2	12.50		
											Cloxacillin IV Inj 500mg	1	6.25		
											Gentamicin Inj 80mg/2ml 2ml	1	6.25		
Unspecified cellulitis	Anti-infective	16	100			Antibacterial (chloramphenicol, erythromycin)	6	37.50							
											Metronidazole IV Inj 500mg/ml 100ml	3	18.75		
											Metronidazole Tabs 200mg 21s	3	18.75		
Dermatitis herpetiformis	Anti-infective	3	100												
						Antibacterial (penicillins)	3	100							
											Ampicillin Inj 500mg	1	33.33		
											Flucloxacillin Caps 250mg 20s	1	33.33		
											Gentamicin Inj 80mg/2ml 2ml	1	33.33		
Rash	Dermatological	1	100	3	100										
						Antipruritic & anti-inflammatory agent	1	100							
											Calamine Lotion 100ml	1	100		
						Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays			2	66.67					
											Zinc & Castor Oil Oint 25g			2	66.67
						Corticosteroid for topical use			1	33.33					
											Betamethasone In Uea Cream 10% 500g			1	33.33
Pruritus	Dermatological			15	100										
						Antipruritic & anti-inflammatory agent			12	80.00					
											Calamine Lotion 100ml			3	20.00
											Hydrocortisone Cream 1% 20g			4	26.67
											Indomethacin Caps 25mg 28s			5	33.33
						Corticosteroid for topical use			3	20.00					
											Betamethasone Valerate Cream 0.1% 15g			3	20.00

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Psoriasis	Anti-infective			12	100										
						Antifungal (oral/injection)			12	100					
											Methotrexate Tabs 2.5mg 100's			12	100
Septic arthritis, acute	Anti-infective	14	100												
						Antibacterial (penicillins)	6	42.86							
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	7.14		
											Ampicillin Inj 500mg	1	7.14		
											Cloxacillin IV Inj 500mg	1	7.14		
											Flucloxacillin Caps 250mg 20s	2	14.29		
											Gentamicin Inj 80mg/2ml 2ml	1	7.14		
						Anti-infective (cephalosporins)	2	14.29							
											Ceftriaxone Inj 1g	2	14.29		
						Antibacterial (chloramphenicol, erythromycin)	6	42.86							
											Doxycycline Caps 100mg 14s	1	7.14		
											Metronidazole IV Inj 500mg/ml 100ml	1	7.14		
											Metronidazole Tabs 200mg 21s	1	7.14		
Gout	Pain reliever	5	100	3	100										
						Analgesics, non-opioids including NSAIMs, gold and anti-gout preparation	5	100	3	100					
											Allopurinol Tabs 300mg 30s	2	40.00	2	66.67
											Colchicine Tabs 1mg 60s	3	60.00	1	33.33
Muscle relaxant	Functional	16	100	19	100										
						Muscle relaxant (central & peripherally acting)	16	100	19	100					
											Naloxone Inj 0.4mg/ml 1ml			1	5.26
											Orphenadrine Tabs 50mg 28s	16	100	18	94.74
Nephritis	Anti-infective	5	100												
						Antibacterial (penicillins)	3	60.00							
											Amoxycillin Caps 500mg 15s	1	20.00		
											Ampicillin Inj 500mg	1	20.00		
											Gentamicin Inj 80mg/2ml 2ml	1	20.00		
						Antibacterial (chloramphenicol, erythromycin)	2	40.00							
											Metronidazole IV Inj 500mg/ml 100ml	1	20.00		
											Metronidazole Tabs 200mg 21s	1	20.00		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Chronic obstructive pyelonephritis	Anti-infective	3	100												
						Antibacterial (penicillins)	1	33.33							
											Ampicillin Inj 500mg	1	33.33		
						Anti-infective (cephalosporins)	1	33.33							
											Ceftriaxone Inj 1g	1	33.33		
						Antibacterial (chloramphenicol, erythromycin)	1	33.33							
											Doxycycline Caps 100mg 14s	1	33.33		
Urinary track infection, uncomplicated	Anti-infective	14	100	22	100										
						Antibacterial (penicillins)	10	71.43	12	54.55					
											Amoxycillin Caps 250mg 15s			1	4.55
											Amoxycillin Caps 500mg 15s	1	7.14	2	9.09
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	7.14	2	9.09
											Ampicillin Inj 500mg	1	7.14		
											Ciprofloxacin Tabs 500mg 10s	2	14.29	5	22.73
											Gentamicin Inj 80mg/2ml 2ml	1	7.14		
											Nalidixic Acid Susp 250mg/ml 100ml	1	7.14		
											Nalidixic Acid Tabs 500mg 100s	3	21.43	2	9.09
						Antibacterial (chloramphenicol, erythromycin)	4	28.57	10	45.45					
											Co-trimoxazole Tabs 480mg 20s	3	21.43		
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s			2	9.09
											Doxycycline Caps 100mg 14s			2	9.09
											Erythromycin Tabs 250mg 20s			1	4.55
											Metronidazole Tabs 200mg 21s	1	7.14	5	22.73
Benign prostatic hyperplasia	Anti-infective	2	100												
						Antibacterial (penicillins)	2	100							
											Ciprofloxacin Tabs 500mg 10s	1	50.00		
											Nitrofurantoin Caps 100mg 50s	1	50.00		
Pelvic inflammation disease	Anti-infective	6	100												
						Antibacterial (penicillins)	4	66.67							
											Ampicillin Inj 500mg	2	33.33		
											Gentamicin Inj 80mg/2ml 2ml	2	33.33		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Pelvic inflammation disease	Anti-infective	6	100			Antibacterial (chloramphenicol, erythromycin)	2	33.33							
											Metronidazole IV Inj 500mg/ml 100ml	2	33.33		
Bartholin's abscess	Anti-infective	7	100												
						Antibacterial (penicillins)	4	57.14							
											Amoxycillin Caps 500mg 15s	2	28.57		
											Ampicillin Inj 500mg	1	14.29		
											Gentamicin Inj 40mg/ml 1ml	1	14.29		
						Antibacterial (chloramphenicol, erythromycin)	3	42.86							
											Metronidazole IV Inj 500mg/ml 100ml	1	14.29		
											Metronidazole Tabs 200mg 21s	2	28.57		
Vaginal bleeding	Anti-infective	1	100												
						Antibacterial (penicillins)	1	100							
											Flucloxacillin Susp 125mg 100ml	1	100		
Abortion, complicated, therapeutic, legal	Anti-infective	31	91.18	34	68.00										
						Antibacterial (penicillins)	15	44.12	34	68.00					
											Amoxycillin Caps 500mg 15s	2	5.88		
											Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	2.94		
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	2	5.88		
											Ampicillin Inj 250mg	1	2.94		
											Ampicillin Inj 500mg	5	14.71		
											Gentamicin Inj 40mg/ml 1ml	2	5.88		
											Gentamicin Inj 80mg/2ml 2ml	2	5.88		
						Anti-infective (cephalosporins)	3	8.82							
											Cefazolin Inj 500mg	2	5.88		
											Ceftriaxone Inj 1g	1	2.94		
						Antibacterial (chloramphenicol, erythromycin)	13	38.24							
											Doxycycline Caps 100mg 14s	1	2.94	17	34.00
											Erythromycin Tabs 250mg 20s	1	2.94		
											Metronidazole IV Inj 500mg/ml 100ml	5	14.71		
											Metronidazole Tabs 200mg 21s	6	17.65	17	34.00

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Abortion, complicated, therapeutic, legal	Gastrolyte	3	8.82	16	32.00										
						Antacid / anti-ulcer	3	8.82	15	30.00					
											Misoprostol Tabs 0.2mg 60s	3	8.82	15	30.00
						Cathartic drug / laxative			1	2.00					
											Magnesium Sulphate Crystals 500g			1	2.00
Abscess of the breast	Anti-infective	6	100												
						Antibacterial (penicillins)	4	66.67							
											Ampicillin Inj 500mg	1	16.67		
											Flucloxacillin Caps 250mg 20s	2	33.33		
											Gentamicin Inj 80mg/2ml 2ml	1	16.67		
						Antibacterial (chloramphenicol, erythromycin)	2	33.33							
											Metronidazole IV Inj 500mg/ml 100ml	1	16.67		
											Metronidazole Tabs 200mg 21s	1	16.67		
Congenital malformations of heart, unspecified	Anti-infective	1	100												
						Antibacterial (chloramphenicol, erythromycin)	1	100							
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	100		
Cough	Anti-infectives			1	2.04										
						Antibacterial (chloramphenicol, erythromycin)			1	2.04					
											Co-trimoxazole Susp 200/40mg/5ml 50ml			1	2.04
	Respiratory agent	22	100	48	97.96										
						Cough mixture	22	100	48	97.96					
											Mist Expectorant Stim Syr Adult 200ml	15	68.18	24	48.98
											Mist Tussi Infants Mist 100ml	7	31.82	24	48.98
Gastro diarrhoea	Anti-infective	3	100												
						Antibacterial (penicillins)	1	33.33							
											Ciprofloxacin Tabs 500mg 10s	1	33.33		
						Antibacterial (chloramphenicol, erythromycin)	2	66.67							
											Metronidazole IV Inj 500mg/ml 100ml	2	66.67		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Nausea	Anti-infective	3	2.75												
						Antibacterial (penicillins)	1	0.92							
											Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	0.92		
						Antibacterial (chloramphenicol, erythromycin)	2	1.83							
											Co-trimoxazole Tabs 480mg 20s	1	0.92		
											Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	0.92		
	Gastrolyte	**106**	97.25	48	100										
						Anti-emetic	**106**	97.25	48	100					
											Cinnarizine Tabs 25mg 100s			1	2.08
											Metoclopramide Inj 5mg/ml 2ml	**62**	56.88	8	16.67
											Metoclopramide Syr 5mg/5ml 50ml	2	1.83	3	6.25
											Metoclopramide Tabs 10mg 15s	15	13.76	19	39.58
											Prochlorperazine Inj 12.5mg/ml 1ml	3	2.75		
											Metoclopramide Tabs 10mg 10s	24	22.02	17	35.42
Pain control	Anti-infective	1	0.09												
						Antibacterial (chloramphenicol, erythromycin)	1	0.09							
											Metronidazole Tabs 200mg 21s	1	0.09		
	Dermatological			1	0.07										
						Eye preparation (local anaesthetic)			1	0.07					
											Amethocaine Cream 1% 25g			1	0.07
	Endocrine	2	0.18												
						Corticosteroid for systemic use (oral/injection)	2	0.18							
											Prednisone Tabs 5mg 28s	2	0.18		
	Functional	3	0.27	1	0.07										
						Antimigraine agent	3	0.27	1	0.07					
											Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	3	0.27	1	0.07
	Gastrolyte	2	0.18												
						Vitamin & mineral	2	0.18							
											Vitamin Multiple Syr 100ml	2	0.18		

Appendix D.1: *Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)*

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Pain control	Pain reliever	**1091**	99.27	**1389**	99.86										
						Anaesthetics (local)	4	0.36	8	0.58					
											Lignocaine Gel 2% 20g	4	0.36	8	0.58
						Analgesic, non-opioid including NSAIMs, gold and anti-gout preparations	**1018**	92.63	**1377**	98.99					
											Diclofenac Inj 25mg/ml 3ml	**76**	6.92	**103**	7.40
											Diclofenac Tabs 25mg 42s	16	1.46	**58**	4.17
											Ibuprofen Susp 100mg/5ml 100ml	12	1.09	11	0.79
											Ibuprofen Tabs 200mg 15s	**241**	21.93	**357**	25.66
											Methyl Salicylate In Vaseline Oint 10% 25g	16	1.46	**85**	6.11
											Paracetamol Codeine Phos Tabs 500mg/8mg 20s	6	0.55	32	2.30
											Paracetamol Syr 120mg/5ml 50ml	**93**	8.46	**68**	4.89
											Paracetamol Syr 120mg/5ml 100ml	33	3.00	17	1.22
											Paracetamol Tabs 500mg 10s	**480**	43.68	**583**	41.91
											Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	23	2.09	26	1.87
											Tilidine Oral Drops 100mg/1ml 10ml	1	0.09	5	0.36
											Ibuprofen Tabs 200mg 30s	3	0.27		
											Diclofenac Tabs 25mg 28s	18	1.64	32	2.30
						Analgesic (opioid) / narcotic analgesic	69	6.28	4	0.29					
											Codeine Phosphate Tabs 30mg 100s	20	1.82		
											Morphine Sulphate IV Inj 15mg 1ml	6	0.55		
											Morphine Sulphate Tabs 30mg 60s	1	0.09		
											Pethidine IM Inj 50mg/ml 1ml 10s	25	2.27	3	0.22
											Pethidine IM Inj 100mg/2ml 1ml 10s	17	1.55	1	0.07
Anaphylactic shock/shock	Functional	1	100												
						Anti-allergic & anaphylaxis	1	100							
											Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	1	100		
Feeding supplement	Gastrolyte	1	100												
						Feeding and nutritional suppplement (parenteral)	1	100							
											Dextrose Sol for IV Infus 5% 1000ml	1	100		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Wound caring	Anti-infective	1	100												
						Antibacterial (penicillins)	1	100							
											Cloxacillin IV Inj 500mg	1	100		
Amputation of upper limb, level unspecified	Anti-infective	7	100												
						Antibacterial (penicillins)	5	71.43							
											Amoxycillin Caps 250mg 15s	1	14.29		
											Ampicillin Inj 500mg	2	28.57		
											Gentamicin Inj 40mg/ml 1ml	2	28.57		
						Antibacterial (chloramphenicol, erythromycin)	2	28.57							
											Metronidazole IV Inj 500mg/ml 100ml	2	28.57		
Foreign body in ear (wax)	Dermatological	3	100	15	100										
						Scabicides & pediculocides			1	6.67					
											Benzyl Benzoate Emuls 100ml			1	6.67
						Eye preparation (anti-allergic & anti-inflammatory including corticosteroide & decongestant)			1	6.67					
											Antazoline Tetrahydrozoline Eye Drops 10ml			1	6.67
						Ear and nose preparation	3	100	13	86.67					
											Acetic Acid Ear Drops 1% in normal saline 10ml	1	33.33	8	53.33
											Neomycin Polymyxin Hydrocortisone Ear Drops 10ml			1	6.67
											Arachis Oil, Paradichlorbenzene chlorbut 10ml	2	66.67	4	26.67
Burns, complicated	Anti-infective			1	100										
						Antibacterial (penicillins)			1	100					
											Amoxycillin Caps 500mg 15s			1	100
Toxic effect of petroleum products	Anti-infective			1	100										
						Antibacterial (penicillins)			1	100					
											Amoxycillin Susp 125mg/5ml 100ml			1	100
Bites and stings	Anti-infective	4	100												
						Antibacterial (penicillins)	3	75.00							
											Ampicillin Inj 500mg	2	50.00		
											Gentamicin Inj 80mg/2ml 2ml	1	25.00		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Bites and stings	Anti-infectice	4	100			Antibacterial (*chloramphenicol*, erythromycin)	1	25.00			Metronidazole IV Inj 500mg/ml 100ml	1	25.00		
Toxic effect of poisons (unspecified substances)	Anti-infective	2	100			Antibacterial (penicillins)	2	100			Amoxycillin Caps 250mg 15s	2	100		
Rape	Anti-infective	3	100	6	100	Antibacterial (penicillins)			2	33.33	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml			2	33.33
						Antibacterial (chloramphenicol, erythromycin)	3	100	4	66.67	Doxycycline Caps 100mg 14s			2	33.33
											Erythromycin Tabs 250mg 20s	1	33.33		
											Metronidazole IV Inj 500mg/ml 100ml			1	16.67
											Metronidazole Tabs 200mg 21s	2	66.67	1	16.67
Antihistamine for allergies	Anti-infective	2	5.13			Antibacterial (penicillins)	2	5.13			Ampicillin Inj 250mg	1	2.56		
											Ampicillin Inj 500mg	1	2.56		
	Dermatological			2	2.00	Eye preparation (anti-allergic & anti-inflammatory including *corticosteroide* & decongestant)			1	1.00	Antazoline Tetrahydrozoline Eye Drops 10ml			1	1.00
						Corticosteroid for topical use			1	1.00	Betamethasone Valerate Cream 0.1% 15g			1	1.00
	Endocrine	2	5.13	7	7.00	Corticosteroid for systemic use (oral/injection)	2	5.13	7	7.00	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	2	5.13		
											Prednisone Tabs 5mg 28s			7	7.00
	Functional	3	7.69			Hypnotic / sedative	3	7.69			Diazepam Inj 5mg/ml 2ml	1	2.56		
											Diazepam Tabs 5mg 10's	2	5.13		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Antihistamine for allergies	Respiratory agent	32	82.05	91	91.00	Antihistamine for systemic use	32	82.05	91	91.00	Chlorpheniramine Mal Tabs 4mg 30s	23	58.97	63	63.00
											Promethazine Inj 25mg/ml 1ml	3	7.69		
											Promethazine Inj 25mg/ml 2ml			6	6.00
											Promethazine Tabs 25mg 500s	2	5.13	9	9.00
											Chlorpheniramine Mal Syr 2mg/5ml 50ml	4	10.26	13	13.00
Failed or difficult intubation	Functional	2	100			Hypnotic / sedative	2	100	10	100	Diazepam Inj 5mg/ml 2ml	1	50.00	4	40.00
											Diazepam Tabs 5mg 10s	1	50.00	6	60.00
Sedation	Functional	34	100	10	100	Hypnotic / sedative	34	100			Diazepam Inj 5mg/ml 2ml	12	35.29		
											Diazepam Tabs 5mg 500s	2	5.88		
											Diazepam Tabs 5mg 10s	20	58.82		
Unknown diagnosis	Anti-infective	7	20			Antibacterial (penicillins)	3	8.58			Amoxycillin Caps 500mg 15s	1	2.86		
											Ciprofloxacin Tabs 500mg 10s	1	2.86		
											Nitrofurantoin Caps 100mg 50s	1	2.86		
						Anti-infective (cephalosporins)	2	5.71			Ceftriaxone inj 1g	2	5.72		
						Antibacterial (Chloramphenicol, Erythromicin)	2	5.71			Metronidazole IV Inj 500mg/ml 100ml	1	2.86		
											Metronidazole Tabs 200mg 21s	1	2.86		
	Dermatological	24	68.57	28	100	Antifungal (topical)	2	5.71	1	3.57	Mupirocin Topical Oint 2% 15g	2	5.72	1	3.57
						Antiseptic, antiviral, keratoplastic & keratolytic agent	5	14.28	11	39.29	Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	1	2.86	1	3.57
											Mercurochrome Sol 1% 20ml	1	2.86	1	3.57
											Podophyllum Resin 25g	1	2.86		

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Unknown diagnosis	Dermatological	24	68.57	28	100	Antiseptic, antiviral, keratoplastic & keratolytic agent	5	14.28	11	39.29	Podophyllum Resin Oint 10g	1	2.86	8	28.57
											Silver Sulphadiazine Cream 50g			1	3.57
											Silver Sulphadiazine Cream 500g	1	2.86		
						Keratoplastic & keratolytic agents			1	3.57					
											Benzoyl Peroxide Cream 5% 40g			1	3.57
						Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	10	28.57	13	46.43					
											Aqueous Cream 100g	3	8.57	9	32.14
											Aqueous Cream 500g	2	5.72		
											Emulsifying Oint 500g	1	2.86		
											Lubricating Jelly Sachet 2.5ml	1	2.86		
											Zinc & Castor Oil Oint 25g	3	8.57	3	10.71
											Zinc Sulphate Grade 500g			1	3.57
						Disinfectant, antiseptic, soap, irrigation solution and preservative fluid	4	11.43	2	7.14					
											Povidone Iodine Oint 25g	2	5.72	1	3.57
											Povidone Iodine Sol 1000ml	2	5.72	1	3.57
						Eye preparation (anti-infective)	3	8.58							
											Acyclovir Tabs 200mg 25s	3			
	Gastrolyte	3	8.52												
						Other gastrolyte	3	8.58							
											Dextrose in Water Inj 50% 20ml	3			
	Pain reliever	1	2.86												
						Analgesic, non-opioid including NSAIMs, gold and antigout preparation	1	2.89							
											Ibuprofen Tabs 200mg 15s	1			
Hormone replacement therapy	Endocrine	2	100	10	100										
						Hormone, androgen, oestrogen & progesterone	2	100	10	100					
											Oestrogens Conj Tabs 0.3mg 28s	1	50.00		
											Oestrogens Conj Tabs 0.625mg 28s	1	50.00	9	90.00
											Oestrogens Conj Vaginal Cream 42.5g			1	10.00
Immunisation	Immunological	10	100	25	100										
						Vaccine	10	100	25	100					
											Vaccine Tetanus Adsorbed 10 dose 10ml	10	100	25	100

Appendix D.1: Frequency of budget groups, pharmacological groups and therapeutic codes according to ICD-10 codes (continue)

ICD-10 code	Budget group	Inpatients		Outpatients		Pharmacological group	Inpatients		Outpatients		Therapeutical code	Inpatients		Outpatients	
		n	%*	n	%*		n	%*	n	%*		n	%*	n	%*
Family planning	Anti-infective	1	10.00												
						Anti-infective (cephalosporins)	1	10.00							
											Cefazolin Inj 500mg	1	10.00		
	Endocrine	9	90.00	3	100										
						Contraceptive (barrier method)	1	10.00							
											Condoms 10s	1	10.00		
						Contraceptive (injectable)	1	10.00	2	66.67					
											Medroxyprogesterone Tabs 5mg 30s	1	10.00	2	66.67
						Contraceptive (oral)	2	20.00	1	33.33					
											Norgestrel Oestradiol Tabs 28s	1	10.00	1	33.33
						Oxytoxin and other obstetric drugs	3	30.00							
											Oxytocin 5IU/ml 5s	1	10.00		
											Oxytocin Inj 10IU 1ml 5s	4	40.00		
Post partum bleeding	Anti-infective	1	100												
						Anti-infective (cephalosporins)	1	100							
											Cefazolin Inj 500mg	1	100		

* Percentage was calculated for each ICD-10 code according to budget groups, pharmacological groups and therapeutic codes for inpatients and outpatients respectively

Appendix D.2: Frequency of different budget groups

Budget group	Inpatients			Budget group	Outpatients		
	Rank	n	%		Rank	n	%
Anti-infective	1	1737	27.62	Pain reliever	1	1487	27.14
Gastrolyte	2	1350	21.47	Anti-infective	2	1357	24.76
Pain reliever	3	1183	18.81	Gastrolyte	3	901	16.44
Cardiovascular agents	4	956	15.20	Cardiovascular agents	4	584	10.66
Functional	5	341	5.42	Functional	5	349	6.37
Respiratory agents	6	317	5.04	Respiratory agents	6	311	5.68
Endocrine	7	310	4.93	Endocrine	7	260	4.74
Dermatological	8	84	1.34	Dermatological	8	200	3.65
Immunological	9	10	0.16	Immunlogical	9	31	0.57
Total of all budget groups		**6288**	**100**	**Total of all budget groups**		**5480**	**100**

Appendix D.3: Frequency of pharmacological groups according to gender

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Pharmacological group	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Antibacterial (enicillins)	**354**	**15.66**	**507**	**12.59**	150	7.16	198	5.85
Anti-infective (cephalosporins)	45	1.99	55	1.37	6	0.29	9	0.27
Antibacterial (chloramphenicol, erythromycin)	179	7.92	**374**	**9.29**	147	7.01	**309**	**9.13**
Antiviral	42	1.86	164	4.07	**168**	**8.02**	**352**	**10.40**
Antifungal (oral/injection)	4	0.18	13	0.32	4	0.19	14	0.41
Anti-angina	2	0.09	7	0.17	2	0.10	7	0.21
Antihypertensive	107	4.73	**359**	**8.91**	132	6.30	**307**	**9.07**
Congestive heart failure drugs	6	0.27	11	0.27	5	0.24	12	0.35
Antithrombotic and anticoagulant	20	0.88	37	0.92	6	0.29	23	0.68
Drugs affecting the blood	101	4.47	302	7.50	24	1.15	61	1.80
Hypolipidaemic agents			4	0.10	5	0.24		
Antifungal (topical)	7	0.31	10	0.25	10	0.48	14	0.41
Antiseptic, antiviral, keratoplastic & keratolytic agent	5	0.22			11	0.52	5	0.15
Antipruritic & anti-inflammatory agents	4	0.18	14	0.35	15	0.72	39	1.15
Keratoplastic & keratolytic agents					1	0.05		
Scabicides & pediculocides	4	0.18	1	0.02	2	0.10	8	0.24
Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	2	0.09	8	0.20	10	0.48	6	0.18
Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	4	0.18			2	0.10		
Eye preparations (anti-infective)	7	0.31	4	0.10	16	0.76	6	0.18
Eye preparations (local anesthetic)					1	0.05		
Eye preparations (anti-allergic & anti-inflammatory including corticosteroids & decongestants)			1	0.02	6	0.29	9	0.27
Ear and nose preparations	3	0.13	8	0.02	10	0.48	18	0.53
Corticosteroids for topical use			2	0.05	4	0.19	7	0.21
Contraceptive (barrier methods)			1	0.02				
Contraceptive (injectable)			1	0.02			2	0.06
Contraceptive (oral)			2	0.05			1	0.03
Hormone, androgen, oestrogen & progesterone			2	0.05			10	0.30
Antidiabetic agents (injection)	6	0.27	41	1.02	27	1.29	7	0.21
Antidiabetic agents (oral)	26	1.15	68	1.69	10	0.48	52	1.54

Appendix D.3: Frequency of pharmacological groups according to gender (continue)

Pharmacological group	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Antihypoglycaemic agents			3	0.07				
Oxytoxins and other obstetric drugs			5	0.12				
Thyroid and parathyroid preparations			10	0.25				
Corticosteroids for systemic use (oral/injection)	45	1.99	100	2.48	60	2.86	91	2.69
Anti-epileptic	57	2.52	58	1.44	91	4.34	90	2.66
Antiparkinsonism			7	0.17			2	0.06
Anti-allergic & anaphylaxis			1	0.02				
Psychiatric disorder (schizophrenia)					3	0.14	1	0.03
Psychotic disorder	21	0.93	44	1.09	9	0.43	19	0.56
Mood disorder	18	0.80	77	1.91	25	1.19	78	2.30
Hypnotic / sedative	22	0.97	17	0.42	5	0.24	5	0.15
Muscle relaxant (central & peripherally acting)	3	0.13	13	0.32	12	0.57	8	0.24
Antimigraine agent	2	0.09	1	0.02			1	0.03
Antihelmenthic	9	0.40	10	0.25	6	0.29	6	0.18
Antacid /anti-ulcer	38	1.68	73	1.81	27	1.29	51	1.51
Anti-emetic	31	1.37	77	1.91	14	0.67	34	1.00
Antihaemmorrhoidal	3	0.13	3	0.07	4	0.19	4	0.12
Cathartic drugs / laxative	5	0.22	12	0.30	3	0.14	3	0.09
Antidiarrhoea & ulcerative colitis	15	0.66	20	0.50	3	0.14	12	0.35
Antispasmodic & anticholinergic	1	0.04	23	0.57	6	0.29	13	0.38
Constipation, digestants, liver & bile preparations	19	0.84	22	0.55	10	0.48	15	0.44
Mouthwash & throat preparations	7	0.31	1	0.02	8	0.38	19	0.56
Electrolyte and acid-base distrubances (parenteral)	39	1.73	42	1.04			4	0.12
Vitamin and mineral	**286**	**12.65**	**594**	**14.75**	**257**	**12.26**	**401**	**11.85**
Feeding and nutritional supplements (oral)	1	0.04	6	0.15				
Feeding and nutritional supplements (parenteral)	6	0.27	4	0.10	1	0.05		
Others gastrolytes	2	0.09	1	0.02				
Anesthetics (local)	3	0.13	1	0.02	5	0.24	4	0.12
Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	**518**	**22.92**	**592**	**14.70**	**642**	**30.63**	**831**	**24.56**
Analgesics (opioids) / narcotic analgesics	32	1.42	37	0.92	4	0.19		
Antimalaria							1	0.03
Sera & immunologicals					1	0.05		
Vaccines	8	0.35	2	0.05	24	1.15	6	0.18

Appendix D.3: Frequency of pharmacological groups according to gender (continue)

Pharmacological group	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Anti-asthmatic & mucolytics	61	2.70	55	1.37	42	2.00	86	2.54
Cough mixture	7	0.31	15	0.37	17	0.81	31	0.92
Antituberculosis	62	2.74	84	2.09	10	0.48	25	0.74
Decongestants (cold/flu)	1	0.04			2	0.10	6	0.18
Antihistamines for systemic use	10	0.44	22	0.55	31	1.48	61	1.80
Total	**2260**	**100**	**4028**	**100**	**2096**	**100**	**3384**	**100**

* Percentage was calculated for each pharmacological group according to the total number of medicine items dispenced to male and female in- and outpatients respectively

Appendix D.4: Frequency of pharmacological groups according to age groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Pharmacological group	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Antibacterial (penicillins)	250	**22.89**	31	**10.47**	31	**14.98**	295	**14.07**	157	**10.49**	97	8.82	36	**12.54**	20	**8.85**	18	**11.46**	158	7.89	81	4.07	35	4.30
Anti-infective (cephalosporins)	37	3.39	6	2.03	6	2.90	39	1.86	6	0.40	6	0.55	3	1.05					7	0.35	4	0.20	1	0.12
Antibacterial (chloramphenicol, erythromycin)	113	**10.35**	25	**8.45**	17	**8.21**	231	**11.02**	122	**8.15**	45	4.09	34	**11.85**	22	**9.73**	13	**8.28**	216	**10.79**	157	7.89	14	1.72
Antivirals	21	1.92	34	**11.49**			86	4.10	64	4.28	1	0.09	12	4.18	43	**19.03**	2	1.27	252	**12.59**	211	**10.61**		
Antifungal (oral/injection)	5	0.46	1	0.34			5	0.24	1	0.07	5	0.45	2	0.70	1	0.44			1	0.05	11	0.55	3	0.37
Anti-angina							3	0.14	6	0.40									2	0.10	7	0.35		
Antihypertensive	2	0.18	45	**15.20**	4	1.93	52	2.48	158	**10.55**	205	**18.64**	1	0.35					11	0.55	232	**11.66**	195	**23.96**
Congestive heart failure drugs									10	0.67	7	0.64									7	0.35	10	1.23
Antithrombotic and anticoagulant					4	1.93	13	0.62	30	2.00	10	0.91					2	1.27	3	0.15	18	0.90	6	0.74
Drugs affecting the blood	100	**9.16**	19	**6.42**	20	9.66	167	7.97	58	3.87	39	3.55	9	3.14	1	0.44			51	2.55	19	0.96	5	0.61
Hypolipidaemic agents									1	0.07	3	0.27									3	0.15	2	0.25
Antifungal (topical)	2	0.18					8	0.38	5	0.33	2	0.18	2	0.70	2	0.88	1	0.64	10	0.50	8	0.40	1	0.12
Antiseptic, antiviral, keratoplastic & keratolytic agent							1	0.05	4	0.27			1	0.35					3	0.15	12	0.60		
Antipruritic & anti-inflammatory agents			1	0.34	1	0.48	9	0.43	5	0.33	2	0.18	2	0.70					12	0.60	30	1.51	10	1.23
Keratoplastic & keratolytic agents																			1	0.05				
Scabicides & pediculocides	2	0.18	3	1.01									1	0.35			4	2.55	5	0.25				
Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	2	0.18					4	0.19	2	0.13	2	0.18	2	0.70					8	0.40	5	0.25	1	0.12
Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids							2	0.10			2	0.18							1	0.05	1	0.05		
Eye preparations (anti-infective)	1	0.09	1	0.34			7	0.33	2	0.13			3	1.05	1	0.44			8	0.40	4	0.20	6	0.74

Appendix D.4: Frequency of pharmacological groups according to age groups (continue)

Pharmacological group	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Eye preparations (local anesthetic)																					1	0.05		
Eye preparations (anti-allergic & anti-inflammatory including corticosteroids & decongestants)							1	0.05							2	0.88			6	0.30	3	0.15	4	0.49
Ear and nose preparations	3	0.27	7	2.36					1	0.07			5	1.74	3	1.33	2	1.27	9	0.45	5	0.25	4	0.49
Corticosteroids for topical use							1	0.05			1	0.09	1	0.35					8	0.40	2	0.10		
Contraceptive (barrier method)							1	0.05																
Contraceptive (injectable)							1	0.05													2	0.10		
Contraceptive (oral)					1	0.48	1	0.05									1	0.64						
Hormone, androgen, oestrogen & progesterone									2	0.13			1	0.35					1	0.05	4	0.20	4	0.49
Antidiabetic agents (injection)							8	0.38	22	1.47	17	1.55							6	0.30	28	1.41		
Antidiabetic agents (oral)							8	0.38	45	3.01	41	3.73							13	0.66	25	1.26	24	2.95
Antihypoglycaemic agents											3	0.27												
Oxytoxins and other obstetric drugs					2	0.97	3	0.14																
Thyroid and parathyroid preparations									1	0.07	9	0.82												
Corticosteroids for systemic use (oral/injection)	22	2.01	13	4.39	4	1.93	62	2.96	28	1.87	16	1.45	3	1.05	5	2.21	2	1.27	48	2.40	68	3.42	25	3.07
Anti-epileptic	10	0.92	9	3.04	3	1.45	29	1.38	39	2.61	25	2.27	3	1.05	11	4.87	1	0.64	65	3.25	84	4.22	17	2.09
Antiparkinsonism					3	1.45	1	0.05			3	0.27									2	0.10		
Anti-allergic & anaphylaxis	1	0.09																						
Psychiatric disorder (schizophrenia)																			2	0.10	1	0.05	1	0.12
Psychotic disorder					4	1.93	38	1.81	13	0.87	10	0.91							7	0.35	20	1.01	1	0.12
Mood disorder	1	0.09			2	0.97	37	1.77	32	2.14	23	2.09					1	0.64	34	1.70	45	2.26	23	2.83
Hypnotic / sedative	4	0.37	1	0.34			21	1.00	7	0.47	6	0.55	1	0.35	1	0.44			1	0.05	6	0.30	1	0.12
Muscle relaxant (central & peripherally acting)					2	0.97	9	0.43	4	0.27	1	0.09							3	0.15	16	0.80	1	0.12
Antimigraine agent					1	0.48	2	0.10											1	0.05				

Appendix D.4: Frequency of pharmacological groups according to age groups (continue)

Pharmacological group	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Antihelmenthic	12	1.10	2	0.68			1	0.05	1	0.07	3	0.27	1	0.35	4	1.77			4	0.20	3	0.15		
Antacid /anti-ulcer					5	2.42	22	1.05	44	2.94	40	3.64			1	0.44	1	0.64	37	1.85	29	1.46	10	1.23
Anti-emetic	4	0.37	2	0.68	8	3.86	31	1.48	35	2.34	28	2.55	3	1.05			2	1.27	19	0.95	20	1.01	4	0.49
Antihaemmorrhoidal							5	0.24	1	0.07									5	0.25			3	0.37
Cathartic drug / laxative							10	0.48	3	0.20	4	0.36					1	0.64	3	0.15	2	0.10		
Antidiarrhoea & ulcerative colitis	19	1.74	1	0.34			5	0.24	6	0.40	4	0.36			3	1.33			4	0.20	4	0.20	4	0.49
Antispasmodics & anticholinergic	1	0.09					6	0.29	12	0.80	5	0.45	2	0.70			1	0.64	7	0.35	7	0.35	2	0.25
Constipation, digestants, liver & bile preparations	26	2.38	2	0.68			5	0.24	5	0.33	3	0.27	7	2.44	2	0.88			4	0.20	9	0.45	3	0.37
Mouthwash & throat preparations			1	0.34			5	0.24			2	0.18	1	0.35	1	0.44	3	1.91	11	0.55	10	0.50	1	0.12
Electrolyte and acid-base disturbances (parenteral)	6	0.55	2	0.68	2	0.97	35	1.67	22	1.47	14	1.27							3	0.15	1	0.05		
Vitamin and mineral	215	**19.78**	38	**12.84**	23	**11.11**	293	**13.98**	178	**11.89**	132	**12.00**	51	**17.77**	32	**14.16**	8	5.10	283	**14.14**	220	**11.06**	64	7.86
Feeding and nutritional supplements (oral)	1	0.09	6	2.06																				
Feeding and nutritional supplements (parenteral)	1	0.09	1	0.34			4	0.19	2	0.13	2	0.18							1	0.05				
Other Gastrolytes							2	0.10			1	0.09												
Anesthetics (local)							4	0.19											5	0.25	1	0.05	3	0.37
Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	125	**11.45**	40	**13.51**	59	**28.50**	390	**18.61**	260	**17.37**	236	**21.45**	66	**23.00**	45	**19.91**	78	**49.68**	522	**26.07**	490	**24.64**	268	**32.92**
Analgesics (opioids) / narcotic analgesics					1	0.48	29	1.38	19	1.27	20	1.82	1	0.35	1	0.44							2	0.02
Antimalaria																					1	0.05		
Sera & immunologicals																							1	0.12
Vaccines	1	0.09	1	0.34	1	0.48	7	0.33							1	0.44	3	1.91	18	0.90	2	0.10	5	0.61
Anti-asthmatic & mucolytics	45	4.12					25	1.19	33	2.20	13	1.18	11	3.83	11	4.87	7	4.46	41	2.05	23	1.16	35	4.30
Cough mixture	6	0.55	1	0.34	1	0.48	3	0.14	7	0.47	4	0.36	13	4.53	5	2.21			20	1.00	7	0.35	3	0.37
Antituberculosis	49	4.49	2	0.68			57	2.72	35	2.34	3	0.27	2	0.70					22	1.10	10	0.50	1	0.12
Decongestants (cold/flu)					1	0.48									1	0.44			5	0.25	1	0.05	1	0.12

Appendix D.4: Frequency of pharmacological groups according to age groups (continue)

Pharmacological group	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Antihistamines for systemic use	4	0.37	1	0.34	1	0.48	12	0.57	9	0.60	5	0.45	7	2.44	7	3.10	6	3.82	35	1.75	27	1.36	10	1.23
Total	**1091**	**100**	**296**	**100**	**207**	**100**	**2096**	**100**	**1497**	**100**	**1100**	**100**	**287**	**100**	**226**	**100**	**157**	**100**	**2002**	**100**	**1989**	**100**	**814**	**100**

* Percentage was calculated for each pharmacological group according to the total number of medicine items dispenced to inpatients and outpatients in the different age groups respectively

Appendix D.5: Frequency of top 10 pharmacological groups

Pharmacological group	Inpatients			Pharmacological group	Outpatients		
	Rank	n	%*		Rank	n	%*
Analgesics, non opioids including NSAIMs, gold & anti-gout preparations	1	1110	17.65	Analgesics, non opioids including NSAIMs, gold & anti-gout preparations	1	1473	26.88
Vitamin & mineral	2	880	13.99	Vitamin & mineral	2	658	12.01
Antibacterial (penicillins)	3	861	13.69	Antiviral	3	520	9.49
Anti-infective (chloramphenicol, erythromycin)	4	553	8.79	Anti-infective (chloramphenicol, erythromycin)	4	456	8.32
Antihypertensive	5	466	7.41	Antihypertensive	5	439	8.01
Drugs affecting the blood	6	403	6.41	Antibacterial (penicillins)	6	348	6.35
Antiviral	7	206	3.28	Anti-epileptic	7	181	3.30
Antituberculosis	8	146	2.32	Corticosteroids for systemic use (oral/injection)	8	151	2.76
Corticosteroids for systemic use (oral/injection)	9	145	2.31	Anti-asthmatic & mucolytics	9	128	2.34
Anti-asthmatic & mucolytics	10	116	1.84	Mood disorder	10	103	1.88
Total of top 10 pharmacological groups		**4886**	**77.70**	**Total of top 10 pharmacological groups**		**4457**	**81.33**
Total of all pharmacological groups		**6288**	**100**	**Total of all pharmacological groups**		**5480**	**100**

* Percentage was calculated for each budget group according to total number of medicine items dispenced to inpatients and outpatients respectively

Appendix D.6: Frequency of therapeutic codes according to gender

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Amoxycillin Caps 250mg 15s	2	0.09	11	0.27	9	0.43	9	0.27
Amoxycillin Caps 500mg 15s	22	0.97	48	**1.19**	46	**2.19**	55	**1.63**
Amoxycillin Susp 125mg/5ml 100ml	21	0.93	17	0.42	13	0.62	13	0.38
Amoxycillin Susp 250mg/5ml 100ml	1	0.04	4	0.10	2	0.10	1	0.03
Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	13	0.58	19	0.47				
Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	6	0.27	4	0.10	3	0.14	7	0.21
Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	27	**1.19**	60	**1.49**	25	**1.19**	41	**1.21**
Ampicillin Inj 250mg	48	**2.12**	43	**1.07**				
Ampicillin Inj 500mg	57	**2.52**	90	**2.23**	2	0.10		
Benzathine Penicillin G Inj. 2.4Mu Vials	2	0.09	2	0.05	2	0.10	4	0.12
Benzylpenicillin G Inj 1Mu 50s			3	0.07				
Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	2	0.09	2	0.05	2	0.10	4	0.12
Ciprofloxacin Tabs 500mg 10s	14	0.62	14	0.35	15	0.72	31	0.92
Clindamycin Caps 150mg 100s					2	0.10		
Cloxacillin IV Inj 500mg	15	0.66	5	0.12				
Co-Trimoxazole for IV Infus 480mg 5ml	2	0.09	6	0.15				
Flucloxacillin Caps 250mg 20s	18	0.80	15	0.37	16	0.76	8	0.24
Flucloxacillin Susp 125mg 100ml			1	0.02				
Fluconazole Caps 50mg 14s	1	0.04	2	0.05				
Fluconazole Caps 200mg 28s	2	0.09	9	0.22			1	0.03
Fluconazole Inj for IV Infus 2mg/ml 100ml	4	0.18	4	0.10				
Gentamicin Inj 40mg/ml 1ml	40	**1.77**	45	**1.12**			2	0.06
Gentamicin Inj 80mg/2ml 2ml	49	**2.17**	77	**1.91**			2	0.06
Ketoconazole Tabs 200mg 30s	1	0.04	19	0.47	5	0.24	10	0.30
Nalidixic Acid Susp 250mg/ml 100ml	1	0.04						
Nalidixic Acid Tabs 500mg 100s	3	0.13			4	0.19		
Nitrofurantoin Caps 100mg 50s	1	0.04	3	0.07			1	0.03

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Phenoxymethyl Penicillin Susp 250mg/5ml 100ml							1	0.03
Phenoxymethyl Penicillin Tabs 250mg 20s	2	0.09	2	0.05	1	0.05	5	0.15
Phenoxymethyl Penicillin Tabs 250mg 100s					1	0.05		
Nitrofurantoin Caps 100mg 30s			1	0.02	2	0.10	3	0.09
Fluconazole Susp 50mg/5ml 35ml			1	0.02				
Cefazolin Inj 500mg	5	0.22	5	0.12	2	0.10		
Cefotaxime Inj 500mg	1	0.04						
Cefotaxime Inj 1g/15ml			2	0.05	1	0.05		
Ceftriaxone IM Inj 250mg	14	0.62	16	0.40			2	0.06
Ceftriaxone Inj 1g	25	**1.11**	32	0.79	3	0.14	7	0.21
Co-trimoxazole Tabs 480mg 20s	28	**1.24**	83	**2.06**	20	0.95	21	0.62
Co-trimoxazole Tabs 400mg 1000s							1	0.03
Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	17	0.75	45	**1.12**	55	**2.62**	123	**3.63**
Co-trimoxazole Susp 200/40mg/5ml 50ml	51	**2.26**	52	**1.29**	14	0.67	8	0.24
Co-trimoxazole Susp 200/40mg/5ml 100ml	6	0.27	2	0.05	9	0.43	1	0.03
Doxycycline Caps 100mg 14s	5	0.22	15	0.37	14	0.67	56	**1.65**
Erythromycin Susp 125mg/5ml 100ml	2	0.09	2	0.05	1	0.05		
Erythromycin IV Inj 1g			1	0.02				
Erythromycin Tabs 250mg 20s	4	0.18	13	0.32	10	0.48	14	0.41
Erythromycin Tabs 250mg 100s							1	0.03
Erythromycin Tabs 250mg 56s							1	0.03
Metronidazole IV Inj 500mg/ml 100ml	36	**1.59**	79	**1.96**	4	0.19	7	0.21
Metronidazole Tabs 200mg 21s	30	**1.33**	81	**2.01**	17	0.81	70	**2.07**
Metronidazole Tabs 200mg 250s							1	0.03
Metronidazole Susp 200mg/5ml 50ml					2	0.10	4	0.12
Metronidazole Susp 200mg/5ml 100ml					1	0.05		
Spectinomycin Inj 400mg/ml 2g 5ml			1	0.02				
Metronidazole Tabs 200mg 10s							1	0.03
Acyclovir Cream 5% 2g			1	0.02	1	0.05	4	0.12
Efavirenz Caps 50mg 30s	1	0.04			8	0.38	3	0.09
Efavirenz Caps 200mg 90s	9	0.40	3	0.07	12	0.57	6	0.18
Efavirenz Caps 600mg 30s	5	0.22	7	0.17	42	**2.00**	55	**1.63**
Lamivudine Oral Sol 10mg/ml 240ml	9	0.40	6	0.15	8	0.38	1	0.03

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Lamivudine Tabs 150mg 60s	5	0.22	52	**1.29**	43	**2.05**	112	**3.31**
Lopinavir Syr 60ml			6	0.15				
Nevirapine Tabs 200mg 60s			34	0.84			53	**1.57**
Stavudine Caps 15mg 60s			2	0.05				
Stavudine Caps 20mg 60s	8	0.35	4	0.10	7	0.33	1	0.03
Stavudine D4t Caps 30mg 60's	1	0.04	26	0.65	14	0.67	47	**1.39**
Stavudine D4t Caps 40mg 60s	4	0.18	13	0.32	29	**1.38**	69	**2.04**
Stavudine D4t Sol 200ml					4	0.19		
Zidovudine Caps 300mg 60s			10	0.25			1	0.03
Amphotericin B Lozenges 10mg 20s			1	0.02				
Griseofulvin Tabs 125mg 100s					1	0.05		
Nystatin Oral Susp 100 000Iu 20ml	4	0.18	12	0.30	3	0.14	2	0.06
Methotrexate Tabs 2.5mg 100s							12	0.35
Glyceryl Trinitrate SL Tabs 0.5mg 50s	2	0.09	7	0.17	2	0.10	7	0.21
Amlodipine Besylate Tabs 5mg 30s			12	0.30				
Atenolol Tabs 50mg 28s	9	0.40	30	0.74	3	0.14	18	0.53
Atenolol Tabs 100mg 28s	3	0.13			3	0.14	1	0.03
Enalapril Tabs 5mg 28s	1	0.04	16	0.40			3	0.09
Enalapril Tabs 10mg 28s	3	0.13	17	0.42	19	0.91	33	0.98
Enalapril Tabs 20mg 28s	3	0.13	6	0.15	4	0.19	10	0.30
Furosemide Tabs 40mg 28s	13	0.58	26	0.65	11	0.52	26	0.77
Furosemide Tabs 40mg 56s	1	0.04	3	0.07			2	0.06
Furosemide Tabs 40mg 84s			1	0.02				
Furosemide Tabs 40mg 250s							1	0.03
Furosemide Inj 10mg/ml 2ml	4	0.18	29	0.72				
Furosemide Inj 10mg/ml 25ml	1	0.04	1	0.02	1	0.05		
Hydralazine Tabs 25mg 500s					1	0.05		
Hydrochlorothiazide Tabs 25mg 14s	3	0.13	16	0.40	3	0.14	6	0.18
Hydrochlorothiazide Tabs 25mg 28s	26	**1.15**	45	**1.12**	37	**1.77**	79	**2.33**
Indapamide Tabs 2.5mg 30s			16	0.45	4	0.19	10	0.30
Mannitol Inj for IV use 20% 500ml	1	0.04						
Methyldopa Tabs 250mg 56s			1	0.02			1	0.03
Nifedipine Caps 5mg 100s			10	0.25			1	0.03

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Nifedipine Tabs SR 30mg 28s	5	0.22	17	0.42	12	0.57	23	0.68
Nifedipine Tabs SR 60mg 28s	5	0.22	14	0.35	15	0.72	29	0.86
Perindopril Tabs 4mg 28s	27	**1.19**	66	**1.64**	11	0.52	48	**1.42**
Prazosin Tabs 1mg 14s	1	0.04			3	0.14	5	0.15
Prazosin Tabs 5mg 30s							3	0.09
Propranolol Tabs 10mg 60s			3	0.07			2	0.06
Propranolol Tabs 40mg 28s	1	0.04						
Spironolactone Tabs 25mg 240s			15	0.37	5	0.24	6	0.18
Spironolactone Tabs 25mg 14s			13	0.32				
Digoxin Tabs 0.25mg 14s	5	0.22	10	0.25	2	0.10	12	0.35
Digoxin Tabs 0.25mg 28s	1	0.04	1	0.02	3	0.14		
Enoxaparin Prefilled Syr SC 40mg/0.4ml	5	0.22						
Balanced Heparin 1250lu/ml			1	0.02				
Heparin IV Inj 1 000lu/ml 5ml			2	0.05				
Heparin IV Inj 5 000lu/ml 5ml	7	0.31	5	0.12				
Streptokinase Inj 1 500 000lu					1	0.05	3	0.09
Tranexamic Acid Inj 100mg/ml 5ml	7	0.31	12	0.30				
Tranexamic Acid Tabs 500mg 60s	1	0.04	4	0.10			6	0.18
Warfarin Sodium Tabs 5mg 28s			12	0.30	5	0.24	4	0.12
Warfarin Sodium Tabs 5mg 42s							7	0.21
Warfarin Sodium Tabs 5mg 49s							1	0.03
Warfarin Sodium Tabs 5mg 14s			1	0.02			2	0.06
Ferrous Sulphate Co Tabs eq 65mg Fe 28s	27	**1.19**	111	**2.76**	7	0.33	23	0.68
Ferrous Sulphate Co Tabs eq 65mg Fe 84s	1	0.04	17	0.42	1	0.05	9	0.27
Ferrous Lactate Drops eq 25mg Fe/ml 10ml					1	0.05		
Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	6	0.27	14	0.35				
Folic Acid Tabs 5mg 28s	65	**2.88**	158	**3.92**	15	0.72	27	0.80
Folic Acid Tabs 5mg 1000s							1	0.03
Phytomenadione IM Inj 10mg/ml 1ml	2	0.09	2	0.05			1	0.03
Cholestyramine Powder 4g 50s			1	0.02				
Simvastatin Tabs 10mg 28s					3	0.14		
Simvastatin Tabs 20mg 28s			3	0.07	2	0.10		
Clotrimazole Cream 1% 20g	1	0.04	4	0.10	6	0.29	8	0.24

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Gentian Violet Sol 0.5% 20ml					1	0.05		
Malic Acid, Benz Acid & Salicyl Acid Cream 50g	1	0.04						
Miconazole Nitrate cream 2% 40g					1	0.05		
Miconazole Nitrate Oral Gel 2% 30g	2	0.09	6	0.15			1	0.03
Mupirocin Topical Oint 2% 15g	2	0.09					2	0.06
Nystatin Vaginal Cream 100 000Iu 60g					1	0.05		
Nystatin Vaginal Tabs 15s	1	0.04					2	0.06
Selenium Sulphide Shampoo 2.5% 50ml					1	0.05	1	0.03
Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	1	0.04					1	0.03
Mercurochrome Sol 1% 20ml	1	0.04			1	0.05		
Podophyllum Resin 25g	1	0.04			1	0.05		
Podophyllum Resin Oint 10g	1	0.04			8	0.38	4	0.12
Silver Sulphadiazine Cream 50g					1	0.05		
Silver Sulphadiazine Cream 500g	1	0.04						
Calamine Lotion 100ml			1	0.02	1	0.05	2	0.06
Hydrocortisone Cream 1% 20g					4	0.19	8	0.24
Indomethacin Caps 25mg 28s	1	0.04	11	0.27	10	0.48	25	0.74
Indomethacin Supps 100mg 10s	3	0.13	2	0.05			3	0.09
Sulfasalazine Tabs 500mg 100s							1	0.03
Benzoyl Peroxide Cream 5% 40g					1	0.05		
Benzyl Benzoate Emuls 100ml	4	0.18	1	0.02	2	0.10	6	0.18
Monosulfiram Soap 5% 75g							2	0.06
Aqueous Cream 100g			3	0.07	6	0.29	4	0.12
Aqueous Cream 500g	1	0.04	1	0.02				
Emulsifying Oint 500g	1	0.04						
Lubricating Jelly Sachet 2.5ml			1	0.02				
Zinc & Castor Oil Oint 25g			3	0.07	4	0.19	1	0.03
Zinc Sulphate Grade 500g							1	0.03
Povidone Iodine Oint 25g	2	0.09			1	0.05		
Povidone Iodine Sol 1000ml	2	0.09			1	0.05		
Acyclovir Tabs 200mg 25s			4	0.10	8	0.38	3	0.09
Chloramphenicol Eye Drops 0.5% 10ml					1	0.05	2	0.06
Chloramphenicol Eye Oint 1% 3.5g	7	0.31			7	0.33	1	0.03

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Amethocaine Cream 1% 25g			1	0.02	1	0.05		
Antazoline Tetrahydrozoline Eye Drops 10ml					6	0.29	9	0.27
Acetic Acid Ear Drops 1% in normal saline 10ml	1	0.04			1	0.05	7	0.21
Acetic Acid Ear Drops 2% in alcohol					1	0.05	1	0.03
Neomycin Polymixin Hydrocortisone Ear Drops 10ml							1	0.03
Oxymetazoline Nose Drops 0.025% 10ml					1	0.05		
Sodium Bicarbonate Powder 500g			7	0.17				
Sodium Chloride Nose Drops 0.9% 10ml	1	0.04			4	0.19	8	0.24
Arachis Oil, Paradichlorbenzene chlorbut 10ml	1	0.04	1	0.02	3	0.14	1	0.03
Betamethasone In Uea Cream 10% 500g					1	0.05		
Betamethasone Valerate Cream 0.1% 15g			2	0.05	3	0.14	7	0.21
Condoms			1	0.02				
Medroxyprogesterone Tabs 5mg 30s			1	0.02			2	0.06
Norgestrel Oestradiol Tabs 28s			2	0.05			1	0.03
Oestrogens Conj Tabs 0.3mg 28s			1	0.02				
Oestrogens Conj Tabs 0.625mg 28s			1	0.02			9	0.27
Oestrogens Conj Vaginal Cream 42.5g							1	0.03
Insulin Actraphane Hm 100Iu/ml 10ml	3	0.13	14	0.35	14	0.67	2	0.06
Insulin Actraphane Hm 100Iu/ml 3ml Penset			6	0.15				
Insulin Actrapid Hm 100Iu/ml 10ml	1	0.04	9	0.22	1	0.05	2	0.06
Insulin Protaphane Hm 100Iu/ml 3ml Penset							2	0.06
Insulin Needles 1s	2	0.09	12	0.30	12	0.57	1	0.03
Gliclazide Tabs 80mg 56s	4	0.18	10	0.25	4	0.19	10	0.30
Gliclazide Tabs 80mg 28s	5	0.22	16	0.40			7	0.21
Metformin Tabs 850mg 56s	12	0.53	33	0.82			15	0.44
Metformin Tabs 850mg 84s	5	0.22	9	0.22	6	0.29	20	0.59
Glucagon Inj 1mg 1ml			3	0.07				
Oxytocin 5Iu/ml			1	0.02				
Oxytocin Inj 10Iu 1ml			4	0.10				
Thyroxine Sodium Tabs 50µg 100s			1	0.02				
Thyroxine Sodium Tabs 100µg 28s			9	0.22				
Dexamethasone IM Inj 4mg/ml 1ml	5	0.22	2	0.05	1	0.05		
Fludrocortisone Acetate Tabs 0.1mg 100s					1	0.05		

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Hydrocortisone Sodium succ Inj 100mg/2ml 2ml	9	0.40	18	0.45	5	0.24	3	0.09
Methylprednisolone Inj 40mg/ml 1ml	2	0.09					3	0.09
Methylprednisolone Inj 40mg/ml 2ml					1	0.05		
Prednisolone Syr 15mg/5ml 50ml	7	0.31	4	0.10			2	0.06
Prednisone Tabs 5mg 28s	22	0.97	75	**1.86**	44	**2.10**	82	**2.42**
Prednisone Tabs 5mg 100s			1	0.02	8	0.38		
Betamethasone Inj 4mg/ml 1ml							1	0.03
Carbamazepine Susp 100mg/5ml 250ml					1	0.05		
Carbamazepine CR Tabs 200mg 30s	17	0.75	18	0.45	30	**1.43**	33	0.98
Carbamazepine CR Tabs 400mg 30s	3	0.13	6	0.15	36	**1.72**	29	0.86
Clonazepam Inj 1mg/ml 1ml			1	0.02				
Lamotrigine Tabs 25mg 60s			1	0.02	1	0.05	2	0.06
Lorazepam Inj 4mg/ml 1ml	7	0.31	8	0.20				
Lorazepam Tabs 1mg 100s			1	0.02	1	0.05	2	0.06
Lorazepam Tabs 2.5mg 100s					1	0.05		
Phenobarbitone Tabs 30mg 28s	7	0.31	5	0.12			4	0.12
Phenobarbitone Tabs 30mg 56s	4	0.18	1	0.02	11	0.52	9	0.27
Phenobarbitone Vit Nicot Syrup 100ml	2	0.09					1	0.03
Phenytoin Caps 100mg 84s	15	0.66	11	0.27	1	0.05	4	0.12
Phenytoin Inj 50mg/ml 5ml	2	0.09	3	0.07				
Sodium Valproate Liqiud Sugar Free 200mg 300ml			3	0.07	1	0.05		
Sodium Valproate Tabs 200mg 28s					4	0.19	1	0.03
Sodium Valproate Tabs Cr 300mg 84s							1	0.03
Valproic Acid Caps 150mg 56s							2	0.06
Valproic Acid Caps 500mg 100's					2	0.10		
Lamotrigine Tabs 25mg 28s					2	0.10	2	0.06
Bromocriptine Mesylate Tabs 2.5mg 30s			3	0.07			2	0.06
Biperidin Inj 5mg/ml 5ml			1	0.02				
Carbidopa 25mg & Levodopa 250mg 100s			3	0.07				
Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml			1	0.02				
Fluphenazine Decanoate Inj 25mg/ml 1ml					1	0.05	1	0.03
Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml					2	0.10		
Chlorpromazine Inj 25mg/ml 1ml	1	0.04						

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Chlorpromazine Tabs 50mg 500s	1	0.04	3	0.07	3	0.14	4	0.12
Chlorpromazine Tabs 100mg 500s					3	0.14		
Haloperidol Inj 5mg/ml 1ml	5	0.22	4	0.10				
Haloperidol Tabs 5mg 14s	9	0.40	32	0.79			1	0.03
Haloperidol Tabs 5mg 56s			5	0.12	3	0.14	1	0.03
Chlorpromazine Tabs 25mg 28'	5	0.22					13	0.38
Amitriptyline Tabs 25mg 28s	10	0.44	58	**1.44**	21	**1.00**	59	**1.74**
Fluoxetine Caps 20mg 28s	8	0.35	14	0.42	4	0.19	18	0.53
Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml			1	0.02				
Imipramine Tabs 25mg 28s							1	0.03
Hudroxyzine Tabs 25mg 100s			1	0.02				
Diazepam Inj 5mg/ml 2ml	8	0.35	6	0.15	3	0.14	1	0.03
Diazepam Tabs 5mg 500s			2	0.05				
Diazepam Tabs 5mg 10s	14	0.62	9	0.22	2	0.10	4	0.12
Naloxone Inj 0.4mg/ml 1ml					1	0.05		
Orphenadrine Tabs 50mg 28s	3	0.13	13	0.32	11	0.52	8	0.24
Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	2	0.09	1	0.02			1	0.03
Albendazole Susp 100mg/5ml 20ml	7	0.31	3	0.07	2	0.10		
Albendazole Tabs 200mg 2s	2	0.09	7	0.17	4	0.19	6	0.18
Aluminium Hydroxide Susp 350ml	18	0.80	32	0.79	13	0.62	25	0.74
Cimetidine IV Inj 100mg/ml 2ml	5	0.22	15	0.37			1	0.03
Cimetidine Tabs 200mg 30s	7	0.31	4	0.10	2	0.10	6	0.18
Cimetidine Tabs 400mg 60s	7	0.31	13	0.32	10	0.48	2	0.06
Magnesium Trisillicate Co Mixt 200ml			1	0.02	1	0.05		
Misoprostol Tabs 0.2mg 60s			3	0.07			15	0.44
Ranitidine HCl Tabs 300mg 30s	1	0.04						
Ranitidine Inj 25mg/ml 2ml							1	0.03
Omeprazole Caps 20mg 30s			5	0.12	1	0.05	1	0.03
Cinnarizine Tabs 25mg 100s					1	0.05		
Metoclopramide Inj 5mg/ml/2ml	16	0.71	47	**1.17**	3	0.14	5	0.15
Metoclopramide Syr 5mg/5ml 50ml	1	0.04	1	0.02	1	0.05	2	0.06
Metoclopramide Tabs 10mg 15s	5	0.22	10	0.25	5	0.24	14	0.41

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Prochlorperazine Inj 12.5mg/ml 1ml			3	0.07				
Metoclopramide Tabs 10mg 10s	9	0.40	16	0.40	4	0.19	13	0.38
Bismuth Sub Oxi Res Nic Zinc Oint 25g					1	0.05		
Bismuth Sub Oxi Res Nic Ainc Supps 10s	3	0.13	3	0.07	4	0.19	4	0.12
Bisacodyl Supps 10mg 10s			1	0.02				
Glycerine Supps Adult 12s	1	0.04						
Lactulose Syr 3.35mg/5ml 150ml			8	0.20	1	0.05	1	0.03
Magnesium Sulphate Crystals 500g							1	0.03
Senna Tabs 1000s	2	0.09						
Senna Tabs 7.5mg 12s	2	0.09	2	0.05	1	0.05	1	0.03
Sodium Phosphate Enema Sol 135ml			1	0.02				
Half Darrows & Glucose 5% Sol 200ml	10	0.44	5	0.12			1	0.03
Half Darrows & Glucose 5% Sol 500ml	3	0.13	2	0.05				
Loperamide Tabs 2mg 6s	2	0.09	13	0.32	2	0.10	11	0.33
Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s					1	0.05		
Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	1	0.04	12	0.30	1	0.05	4	0.12
Hyoscine-N-Butylbromide Syr 100ml			1	0.02			1	0.03
Hyoscine-N-Butylbromide Tabs 10mg 10s			10	0.25	2	0.10	6	0.18
Hyoscine-N-Butylbromide Inj 50mg/ml					2	0.10		
Hyoscine-N-Butylbromide Tabs 10mg 15s					1	0.05	2	0.06
Liquid Paraffin 200ml	3	0.13	5	0.12	3	0.14	3	0.09
Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	16	0.71	17	0.42	7	0.33	12	0.35
Thymol Glycerine B.P. Mouth wash 100ml	7	0.31	1	0.02	8	0.38	19	0.56
Calcium Folinate Tabs 15mg							1	0.03
Electrolyte no 2 Sol 1000ml	2	0.09						
Ringers Lactate 2000ml	1	0.04						
Ringers Lactate Sol 200ml	1	0.04						
Ringers Lactate Sol 1000ml	22	0.97	28	0.70				
Sodium Chloride 0.9% for Irrigation 1000ml	1	0.04					1	0.03
Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.04						
Sodium Chloride 0.9% Inj 1000ml	11	0.49	10	0.25			2	0.06

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Sodium Chloride 0.9% Inj 50ml			1	0.02				
Sodium Chloride 0.9% Inj 200ml			2	0.05				
Water for Inj 10ml			1	0.02				
Calciferol Tabs 50 000Iu 100s							1	0.03
Calcitriol Caps 0.25mg 30s			6	0.15				
Calsium Carbonate & Glycine Tabs 420mg 300s			4	0.10				
Calcium Gluconate Tabs 300mg 28s	1	0.04	2	0.05	3	0.14	7	0.21
Magnesium Chloride Tabs 500-700mg 100s	2	0.09						
Potassium Chloride Syr 300mg/5ml 100ml	12	0.53	21	0.52				
Potassium Chloride Inj 15% 10ml							1	0.03
Potassium Chloride Slow Tabs 600mg 14s	11	0.49	32	0.79	9	0.43	19	0.56
Potassium Citrate Mixture 100ml	3	0.13	12	0.30	5	0.24	10	0.30
Thiamine IV Inj Vit B1 100mg/ml 10ml	1	0.04	3	0.07				
Thiamine Tabs 100mg 28s	9	0.40	7	0.17	1	0.05		
Vitamin A Caps 100 000Iu 250s	8	0.35	14	0.35	1	0.05	1	0.03
Vitamin A Tabs 50 000Iu 200s	1	0.04						
Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	2	0.09	9	0.22	18	0.86	58	**1.71**
Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	1	0.04	2	0.05			1	0.03
Vitamin B Co Inj 10ml (IM)			5	0.12	1	0.05	1	0.03
Vitamin B Co Strong Tabs 28s	14	0.62	108	**2.68**	31	**1.48**	49	**1.45**
Vitamin B Co Strong Tabs 1000s			1	0.02				
Vitamin B Co Syr 100ml	7	0.31	5	0.12	1	0.05		
Vitamin B6 Tabs 25mg 28s	36	**1.59**	66	**1.64**	16	0.76	47	**1.39**
Vitamin C Tabs 100mg 28s	2	0.09	8	0.20	8	0.38	12	0.35
Vitamin C Tabs 250mg 100s	9	0.40	10	0.25	24	**1.15**	18	0.53
Vitamin E Tabs 100mg 50s							1	0.03
Vitamin Multiple Oral drops 25ml	1	0.04	1	0.02				
Vitamin Multiple Syr 100ml	78	**3.45**	78	**1.94**	37	**1.77**	21	0.62
Vitamin Multiple Tabs 28s	88	**3.89**	200	**4.97**	102	**4.87**	154	**4.55**
Bettaway Children's Own Tabs 60s	1	0.04						
Vi-Daylin Syrup with Minerals 150ml			6	0.15				
Dextrose Sol for IV Infus 5% 50ml	1	0.04	1	0.02				

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Dextrose Sol for IV Infus 5% 1000ml	4	0.18	2	0.05				
Dextrose Sol for IV Infus 10% 1000ml					1	0.05		
Destrose Sol for IV Infus 50% 500ml	1	0.04						
Dextrose in Water Inj 50% 20ml			1	0.02				
Sodium Alginate in a Hydro-Active Base 50g	2	0.09	1	0.02				
Lignocaine Gel 2% 20g	3	0.13	1	0.02	5	0.24	4	0.12
Allopurinol Tabs 300mg 30s	2	0.09			1	0.05	1	0.03
Aspirin Soluble Tabs 300mg 14s	26	**1.15**	55	**1.37**	27	**1.29**	66	**1.95**
Colchicine Tabs 1mg 60s	3	0.13			1	0.05		
Diclofenac Inj 25mg/ml 3ml	36	**1.59**	41	**1.02**	51	**2.43**	52	**1.54**
Diclofenac Tabs 25mg 42s	11	0.49	5	0.12	21	**1.00**	37	**1.09**
Ibuprofen Susp 100mg/5ml 100ml	6	0.27	6	0.15	7	0.33	4	0.12
Ibuprofen Tabs 200mg 15s	112	**4.96**	131	**3.25**	170	**8.11**	187	**5.53**
Methyl Salicylate In Vaseline Oint 10% 25g	7	0.31	9	0.22	39	**1.86**	46	**1.36**
Paracetamol Codeine Phos Tabs 500mg/8mg 20s	4	0.18	2	0.05	11	0.52	21	0.62
Paracetamol Syr 120mg/5ml 50ml	48	**2.12**	45	**1.12**	36	**1.72**	32	0.95
Paracetamol Syr 120mg/5ml 100ml	14	0.62	19	0.47	9	0.43	8	0.24
Paracetamol Tabs 500mg 10s	217	**9.60**	263	**6.53**	243	**11.59**	340	**10.05**
Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	17	0.75	9	0.22	9	0.43	17	0.50
Tilidine Oral Drops 100mg/1ml 10ml			1	0.02	3	0.14	2	0.06
Ibuprofen Tabs 200mg 30s	1	0.04	2	0.05				
Diclofenac Tabs 25mg 28s	14	0.62	4	0.10	14	0.67	18	0.53
Codeine Phosphate Tabs 30mg 100s	4	0.18	16	0.40				
Morphine Sulphate IV Inj 15mg 1ml	1	0.04	5	0.12				
Morphine Sulphate Tabs 30mg 60s			1	0.02				
Pethidine IM Inj 50mg/ml 1ml 10s	14	0.62	11	0.27	3	0.14		
Pethidine IM Inj 100mg/2ml 1ml 10s	13	0.58	4	0.10	1	0.05		
Chloroquine Tabs 150mg 100s							1	0.03
Vaccine Immunoglobulin Human Anti-Rabies 150Iu					1	0.05		
Vaccine Rabies 2.5Iu/dose Single dose					5	0.24		
Vaccine Tetanus Adosrbed 10 dose 10ml	8	0.35	2	0.05	19	0.91	6	0.18
Beclomethasone MDI 100mg 200 dose	2	0.09			3	0.14	10	0.30

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Beclomethasone nasal Spray Aqueous 50mg			1	0.02				
Budesonide MDI 200mg 300 dose	1	0.04					1	0.03
Fenoterol Inhaler Complete 100			1	0.02				
Fenoterol UDV 0.5mg/2ml 60s	5	0.22	4	0.10	1	0.05	2	0.06
Ipratropium UDV 0.25mg/2ml 2ml 60s	2	0.09	1	0.02				
Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s					1	0.05		
Salbutamol MDI Complete 100mg 200 dose	6	0.27	3	0.07	5	0.24	26	0.77
Salbutamol Syr 2mg/5ml 150ml	14	0.62	3	0.07			4	0.12
Salbutamol Tabs 2mg 28s			1	0.02	2	0.10		
Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	8	0.35	2	0.05	3	0.14	4	0.12
Salmeterol Accuhaler 0.05mg 60 Dose					2	0.10		
Theophylline Syr 200ml	18	0.80	33	0.82	22	**1.05**	25	0.74
Theophylline Syr 25mg/5ml 500ml	1	0.04						
Theophylline Anhydrous Tabs 200mg 60s	3	0.13	2	0.05	3	0.14	11	0.33
Theophylline Anhydrous Tabs 250mg 56s	1	0.04	4	0.10			3	0.09
Mist Expectorant Stim Syr Adult 200ml	1	0.04	14	0.35	9	0.43	15	0.44
Mist Tussi Infants Mist 100ml	6	0.27	1	0.02	8	0.38	16	0.47
Ethionamide Tabs 250mg 250s			3	0.07				
Pyrazinamide Tabs 500mg 28s			1	0.02				
Rifampicin Caps 150mg 100s			3	0.07				
Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	21	0.93	20	0.50	2	0.10		
Rifampicin 150mg, Isoniazid 75mg Tabs 60s	7	0.31	13	0.32	2	0.10	2	0.06
Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	32	**1.42**	39	0.97	5	0.24	19	0.56
Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s			1	0.02				
Rifampicin 300mg & Isoniazid 150mg Tabs 40s							4	0.12
Streptomycin Inj 1g/3ml	2	0.09	1	0.02				
Streptomycin Sulphate Inj 5g/15ml			3	0.07				
Pseudoephedrine Sulphate Syr 30mg/5ml 50ml					1	0.05		
Pseudoephedrine Tabs 60mg 20s	1	0.04			2	0.10	6	0.18

Appendix D.6: Frequency of therapeutic codes according to gender (continue)

Therapeutic code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Chlorpheniramine Mal Tabs 4mg 30s	8	0.35	15	0.37	22	**1.05**	42	**1.24**
Promethazine Inj 25mg/ml 1ml			3	0.07				
Promethazine Inj 25mg/ml 2ml					1	0.05	5	0.15
Promethazine Tabs 25mg 500s			2	0.05	1	0.05	8	0.24
Chlorpheniramine Mal Syr 2mg/5ml 50ml	2	0.09	2	0.05	7	0.33	6	0.18
Total	**2260**	**100**	**4028**	**100**	**2096**	**100**	**3384**	**100**

* Percentages was calculated for each therapeutic code according to the total number of medicine items dispenced to male and female patients respectively

Appendix D.7: Frequency of therapeutic codes according to age groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Amoxycillin Caps 250mg 15s	6	0.55	3	**1.01**	1	0.48	2	0.10			1	0.09			6	**2.65**	4	**2.55**	3	0.15	5	0.25		
Amoxycillin Caps 500mg 15s			1	0.34	4	**1.93**	31	**1.48**	25	**1.67**	9	0.82	1	0.35	1	0.44	6	**3.82**	58	**2.90**	29	**1.46**	6	0.74
Amoxycillin Susp 125mg/5ml 100ml	33	**3.02**	5	**1.69**									18	**6.27**	7	**3.10**	1	0.64						
Amoxycillin Susp 250mg/5ml 100ml	3	0.27	2	0.68									2	0.70	1	0.44								
Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g					1	0.48	20	0.95	5	0.33	6	0.55												
Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	6	0.55	4	**1.35**									7	**2.44**	2	0.88							**1**	0.12
Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s			1	0.34	2	0.97	46	**2.19**	20	**1.34**	18	**1.64**	1	0.35			1	0.64	34	**1.70**	23	**1.16**	7	0.86
Ampicillin Inj 250mg	84	**7.69**	3	**1.01**			3	0.14	1	0.07														
Ampicillin Inj 500mg	14	**1.28**	3	**1.01**	5	**2.42**	68	**3.24**	39	**2.61**	18	**1.64**											2	0.25
Benzathine Penicillin G Inj. 2.4Mu Vials	1	0.09					2	0.10	1	0.07									3	0.15	2	0.10	1	0.12
Benzylpenicillin G Inj 1Mu 50s	1	0.09	1	0.34							1	0.09												
Ciprofloxacin Inj for IV Infus 2mg/ml 100ml									2	0.13	2	0.18					1	0.64	3	0.15	2	0.10		
Ciprofloxacin Tabs 500mg 10's							8	0.38	10	0.67	10	0.91					1	0.64	28	**1.40**	8	0.40	9	1.11
Clindamycin Caps 150mg 100s													2	0.70										

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Cloxacillin IV Inj 500mg			2	0.68			10	0.48	4	0.27	4	0.36												
Co-Trimoxazole for IV Infus 480mg 5ml	6	0.55					2	0.10																
Flucloxacillin Caps 250mg 20s	2	0.18			3	**1.45**	13	0.62	5	0.33	10	0.91			2	0.88	2	**1.27**	10	0.50	9	0.45	1	0.12
Flucloxacillin Susp 125mg 100ml	1	0.09																						
Fluconazole Caps 50mg 14s							3	0.14																
Fluconazole Caps 200mg 28s							7	0.33	4	0.27									1	0.05				
Fluconazole Inj for IV Infus 2mg/ml 100ml	1	0.09	2	0.68	1	0.48	2	0.10	2	0.13														
Gentamicin Inj 40mg/ml 1ml	76	**6.96**	1	0.34	2	0.97	4	0.19	2	0.13			2	0.70										
Gentamicin Inj 80mg/2ml 2ml	14	**1.28**	3	**1.01**	9	**4.35**	59	**2.81**	29	**1.94**	12	**1.09**	2	0.70										
Ketoconazole Tabs 200mg 30s					1	0.48	14	0.67	5	0.33									13	0.65	1	0.05	1	0.12
Nalidixic Acid Susp 250mg/ml 100ml	1	0.09																						
Nalidixic Acid Tabs 500mg 100s											3	0.27							1	0.05			3	0.37
Nitrofurantoin Caps 100mg 50s									2	0.13	2	0.18							1	0.05				
Phenoxymethyl Penicillin Susp 250mg/5ml 100ml													1	0.35										
Phenoxymethyl Penicillin Tabs 250mg 20s					2	0.97			1	0.07	1	0.09			1	0.44	1	0.64	3	0.15	1	0.05		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Phenoxymethyl Penicillin Tabs 250mg 100s																							1	0.12
Nitrofurantoin Caps 100mg 30s							1	0.05									1	0.64			1	0.05	3	0.37
Fluconazole Susp 50mg/5ml 35ml	1	0.09																						
Cefazolin Inj 500mg							9	0.43	1	0.07									2	0.10				
Cefotaxime Inj 500mg			1	0.34																				
Cefotaxime Inj 1g/15ml	1	0.09	1	0.34																	1	0.05		
Ceftriaxone IM Inj 250mg	28	**2.56**			1	0.48	1	0.05					2	0.70										
Ceftriaxone Inj 1g	8	0.73	4	**1.35**	5	**2.42**	29	**1.38**	5	0.33	6	0.55	1	0.35					5	0.25	3	0.15	1	0.12
Co-trimoxazole Tabs 480mg 20s	5	0.46					64	**3.05**	37	**2.47**	5	0.45			8	**3.54**			17	0.85	12	0.60	4	0.49
Co-trimoxazole Tabs 400mg 1000s																			1	0.05				
Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s							31	**1.48**	29	**1.94**	2	0.18			3	**1.33**			81	**4.05**	92	**4.63**	2	0.25
Co-trimoxazole Susp 200/40mg/5ml 50ml	93	**8.52**	8	**2.70**	1	0.48	1	0.05					19	**6.62**	3	**1.33**								
Co-trimoxazole Syr 200mg/40mg/5ml 100ml	2	0.18	6	**2.03**									9	**3.14**	1	0.44								
Doxycycline Caps 100mg 14s					1	0.48	6	0.29	9	0.60	4	0.36					5	**3.18**	47	**2.35**	15	0.75	3	0.37
Erythromycin Susp 125mg/5ml 100ml	2	0.18	2	0.68									1	0.35										
Erythromycin IV Inj 1g									1	0.07														
Erythromycin Tabs 250mg 20s			3	**1.01**			6	0.29	7	0.47	1	0.09	1	0.35	1	0.44	1	0.64	15	0.75	6	0.30		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Erythromycin Tabs 250mg 100s																					1	0.05		
Erythromycin Tabs 250mg 56s																			1	0.05				
Metronidazole IV Inj 500mg/ml 100ml	6	0.55			7	**3.38**	66	**3.15**	18	**1.20**	18	**1.64**			1	0.44	1	0.64	4	0.20	5	0.25		
Metronidazole Tabs 200mg 21s	5	0.46	6	**2.03**	8	**3.86**	56	**2.67**	21	**1.40**	15	**1.36**			2	0.88	6	**3.82**	48	2.40	26	**1.31**	5	0.61
Metronidazole Tabs 200mg 60s																			1	0.05				
Metronidazole Susp 200mg/5ml 50ml													3	**1.05**	3	**1.33**								
Metronidazole Susp 200mg/5ml 100ml													1	0.35										
Spectinomycin Inj 400mg/ml 2g 5ml							1	0.05																
Metronidazole Tabs 200mg 10s																			1	0.05				
Acyclovir Cream 5% 2g									1	0.07									2	0.10	3	0.15		
Efavirenz Caps 50mg 30s	1	0.09							3	0.20					11	**4.87**								
Efavirenz Caps 200mg 90s	5	0.46	4	**1.35**									4	**1.39**	11	**4.87**					3	0.15		
Efavirenz Caps 600mg 30s							10	0.48	2	0.13									34	**1.70**	63	**3.17**		
Lamivudine Oral Sol 10mg/ml 240ml	7	0.64	8	**2.70**									4	**1.39**	5	**2.21**								
Lamivudine Tabs 150mg 60s			6	**2.03**			30	**1.43**	21	**1.40**					5	**2.21**	1	0.64	83	**4.15**	66	**3.32**		
Lopinavir Syr 60ml	2	0.18	4	**1.35**																				
Nevirapine Tabs 200mg 60s							17	0.81	16	**1.07**	1	0.09							48	**2.40**	5	0.25		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Stavudine Caps 15mg 60s	2	0.18																						
Stavudine Caps 20mg 60s	4	0.37	8	**2.70**											8	**3.54**								
Stavudine D4t Caps 30mg 60s							16	0.76	11	0.73					1	0.44			33	**1.65**	27	**1.36**		
Stavudine D4t Caps 40mg 60s							11	0.52	6	0.40					2	0.88			52	**2.60**	44	**2.21**		
Stavudine D4t Sol 200ml													4	**1.39**							11	0.55		
Zidovudine Caps 300mg 60s			4	**1.35**			2	0.10	4	0.27							1	0.64						
Amphotericin B Lozenges 10mg 20s							1	0.05																
Griseofulvin Tabs 125mg 100s													1	0.35										
Nystatin Oral Susp 100 000Iu 20ml	5	0.46	1	0.34			4	0.19	1	0.07	5	0.45	1	0.35	1	0.44			1	0.05			2	0.25
Methotrexate Tabs 2.5mg 100s																							1	0.12
Glyceryl Trinitrate SL Tabs 0.5mg 50s							3	0.14	6	0.40									2	0.10	7	0.35		
Amlodipine Besylate Tabs 5mg 30s			12	**4.05**																				
Atenolol Tabs 50mg 28s							6	0.29	18	**1.20**	15	**1.36**							1	0.05	19	0.96	1	0.12
Atenolol Tabs 100mg 28s									3	0.20											2	0.10	2	0.25
Enalapril Tabs 5mg 28s			14	**4.73**					2	0.13	1	0.09									3	0.15		
Enalapril Tabs 10mg 28s									12	0.80	8	0.73									29	**1.46**	23	**2.83**

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Enalapril Tabs 20mg 28s									4	0.27	5	0.45									7	0.35	7	0.86
Furosemide Tabs 40mg 28s	2	0.18			1	0.48	8	0.38	14	0.94	14	**1.27**	1	0.35					3	0.15	17	0.85	16	**1.97**
Furosemide Tabs 40mg 56s							1	0.05	3	0.20											2	0.10		
Furosemide Tabs 40mg 84s											1	0.09												
Furosemide Tabs 40mg 250s																					1	0.05		
Furosemide Inj 10mg/ml 2ml			8	**2.70**	2	0.97	7	0.33	6	**0.40**	10	0.91												
Furosemide Inj 10mg/ml 25ml									1	0.07	1	0.09									1	0.05		
Hydralazine Tabs 25mg 500s																					1	0.05		
Hydrochlorothiazide Tabs 25mg 14s									6	0.40	13	**1.18**							2	0.10	6	0.30	1	0.12
Hydrochlorothiazide Tabs 25mg 28s							8	0.38	35	**2.34**	28	**2.55**									61	**3.07**	55	**6.76**
Indapamide Tabs 2.5mg 30s									5	0.33	13	**1.18**									8	0.40	6	0.74
Mannitol Inj for IV use 20% 50ml							1	0.05																
Methyldopa Tabs 250mg 56s					1	0.48													1	0.05				
Nifedipine Caps 5mg 100s							1	0.05	4	0.27	5	0.45											1	0.12
Nifedipine Tabs SR 30mg 28s									6	0.40	16	**1.45**									19	0.96	16	**1.97**
Nifedipine Tabs SR 60mg 28s									11	0.73	8	0.73									23	**1.16**	21	**2.58**

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Perindopril Tabs 4mg 28s							7	0.33	26	**1.74**	60	**5.45**									24	**1.21**	35	**4.30**
Prazosin Tabs 1mg 14s											1	0.09									2	0.10	6	0.74
Prazosin Tabs 5mg 30s																							3	0.37
Propranolol Tabs 10mg 60s							1	0.05			2	0.18									2	0.10		
Propranolol Tabs 40mg 28s							1	0.05																
Spironolactone Tabs 25mg 240s			11	**3.72**			3	0.14			1	0.09							4	0.20	5	0.25	2	0.25
Spironolactone Tabs 25mg 14s							8	0.38	2	0.13	3	0.27												
Digoxin Tabs 0.25mg 14s									9	0.60	6	0.55									7	0.35	7	0.86
Digoxin Tabs 0.25mg 28s									1	0.07	1	0.09											3	0.37
Enoxaparin Prefilled Syr SC 40mg/0.4ml											5	0.45												
Balanced Heparin 1250Iu/ml 5ml 5s									1	0.07														
Heparin IV Inj 1 000Iu/ml 5ml									2	0.13														
Heparin IV Inj 5 000Iu/ml 5ml							3	0.14	9	0.60														
Streptokinase Inj 1 500 000Iu																							1	0.12
Tranexamic Acid Inj 100mg/ml 5ml 5s					3	**1.45**	5	0.24	8	0.53	3	0.27					1	0.64			2	0.10		
Tranexamic Acid Tabs 500mg 60s					1	0.48	2	0.10	1	0.07	1	0.09					1	0.64	2	0.10	3	0.15		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Warfarin Sodium Tabs 5mg 28s							3	0.14	9	0.60									1	0.05	3	0.15	5	0.61
Warfarin Sodium Tabs 5mg 42s																					7	0.35		
Warfarin Sodium Tabs 5mg 49s																					1	0.05		
Warfarin Sodium Tabs 5mg 14s											1	0.09									2	0.10		
Ferrous Sulphate Co Tabs eq 65mg Fe 28s	1	0.09			12	**5.80**	82	**3.91**	23	**1.54**	20	**1.82**			1	0.44			23	**1.15**	4	0.20	2	0.25
Ferrous Sulphate Co Tabs eq 65mg Fe 84s							10	0.48	7	0.47	1	0.09							4	0.20	4	0.20	2	0.25
Ferrous Lactate Drops eq 25mg Fe/ml 10ml													1	0.35										
Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	19	**1.74**	1	0.34																				
Folic Acid Tabs 5mg 28s	80	**7.33**	18	**6.08**	8	**3.86**	75	**3.58**	24	**1.60**	18	**1.64**	8	**2.79**					22	**1.10**	11	0.55	1	0.12
Folic Acid Tabs 5mg 1000s																			1	0.05				
Phytomenadione IM Inj 10mg/ml 1ml									4	0.27									1	0.05				
Cholestyramine Powder 4g 50s									1	0.07														
Simvastatin Tabs 10mg 28s																					2	0.10	1	0.12
Simvastatin Tabs 20mg 28s											3	0.27									1	0.05	1	0.01
Clotrimazole Cream 1% 20g									5	0.33			2	0.70					7	0.35	4	0.20	1	0.12
Gentian Violet Sol 0.5% 20ml																					1	0.05		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Malic Acid, Benz Acid & Salicyl Acid Cream 50g							1	0.05																
Miconazole Nitrate cream 2% 40g															1	0.44								
Miconazole Nitrate Oral Gel 2% 30g	2	0.18					6	0.29											1	0.05				
Mupirocin Topical Oint 2% 15g											2	0.18					1	0.64	1	0.05				
Nystatin Vaginal Cream 100 000Iu 60g																					1	0.05		
Nystatin Vaginal Tabs 15s							1	0.05													2	0.10		
Selenium Sulphide Shampoo 2.5% 50ml															1	0.44			1	0.05				
Cetrimide Chlorhexidine Gluconate Conc Sol 100ml									1	0.07											1	0.05		
Mercurochrome Sol 1% 20ml									1	0.07											1	0.05		
Podophyllum Resin 25g									1	0.07									1	0.05				
Podophyllum Resin Oint 10g							1	0.05					1	0.35					1	0.05	10	0.50		
Silver Sulphadiazine Cream 50g																			1	0.05				
Silver Sulphadiazine Cream 500g									1	0.07														
Calamine Lotion 100ml			1	0.34															1	0.05	1	0.05	1	0.12
Hydrocortisone Cream 1% 20g													2	0.70					2	0.10	8	0.40		

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Indomethacin Caps 25mg 28s							6	0.29	4	0.27	2	0.18							9	0.45	18	0.90	8	0.98
Indomethacin Supps 100mg 10s					1	0.48	3	0.14	1	0.07											3	0.15		
Sulfasalazine Tabs 500mg 100s																							1	0.12
Benzoyl Peroxide Cream 5% 40g			3	**1.01**															1	0.05				
Benzyl Benzoate Emuls 100ml	2	0.18											1	0.35			3	**1.91**	4	0.20				
Monosulfiram Soap 5% 75g																	1	0.64	1	0.05				
Aqueous Cream 100g	1	0.09									2	0.18	1	0.35					4	0.20	4	0.20	1	0.12
Aqueous Cream 500g	1	0.09					1	0.05																
Emulsifying Oint 500g									1	0.07														
Lubricating Jelly Sachet 2.5ml									1	0.07														
Zinc & Castor Oil Oint 25g							3	0.14					1	0.35					3	0.15	1	0.05		
Zinc Sulphate Grade 500g																			1	0.05				
Povidone Iodine Oint 25g											2	0.18							1	0.05				
Povidone Iodine Sol 1000ml							2	0.10													1	0.05		
Acyclovir Tabs 200mg 25s			1	0.34			1	0.05	2	0.13			1	0.35					3	0.15	3	0.15	4	0.49
Chloramphenicol Eye Drops 0.5% 10ml																			1	0.05			2	0.25
Chloramphenicol Eye Oint 1% 3.5g	1	0.09					6	0.29					2	0.70	1	0.44			4	0.20	1	0.05		
Amethocaine Cream 1% 25g																					1	0.05		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Antazoline Tetrahydrozoline Eye Drops 10ml							1	0.05							2	0.88			6	0.30	3	0.15	4	0.49
Acetic Acid Ear Drops 1% in normal saline 10ml	1	0.09											2	0.70	1	0.44	1	0.64	1	0.05	1	0.05	2	0.25
Acetic Acid Ear Drops 2% in alcohol																			1	0.05			1	0.12
Neomycin Polymixin Hydrocortisone Ear Drops 10ml																					1	0.05		
Oxymetazoline Nose Drops 0.025% 10ml													1	0.35										
Sodium Bicarbonate Powder 500g			7	2.36																				
Sodium Chloride Nose Drops 0.9% 10ml	1	0.09											2	0.70	1	0.44	1	0.64	4	0.20	3	0.15	1	0.12
Arachis Oil, Paradichlorbenzene chlorbut 10ml	1	0.09							1	0.07					1	0.44			3	0.15				
Betamethasone In Uea Cream 10% 500g																			1	0.05				
Betamethasone Valerate Cream 0.1% 15g							1	0.05			1	0.09	1	0.35					7	0.35	2	0.10		
Condoms 10s							1	0.05																
Medroxyprogesterone Tabs 5mg 30s							1	0.05													2	0.10		
Norgestrel Oestradiol Tabs 28s					1	0.48	1	0.05	1	0.07							1	0.64						
Oestrogens Conj Tabs 0.3mg 28s									1	0.07														

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Oestrogens Conj Tabs 0.625mg 28s									1	0.07									1	0.05	4	0.20	4	0.49
Oestrogens Conj Vaginal Cream 42.5g													1	0.35										
Insulin Actraphane Hm 100Iu/ml 10ml							3	0.14	11	0.73	3	0.27							2	0.10	14	0.70		
Insulin Actraphane Hm 100Iu/ml 3ml Penset											6	0.55												
Insulin Actrapid Hm 100Iu/ml 10ml							4	0.19	5	0.33	1	0.09							2	0.10	1	0.05		
Insulin Protaphane Hm 100Iu/ml 3ml Penset																					2	0.10		
Insulin Needles 1s							1	0.05	6	0.40	7	0.64							2	0.10	11	0.55		
Gliclazide Tabs 80mg 56s									6	0.40	8	0.73							1	0.05	4	0.20	9	**1.11**
Gliclazide Tabs 80mg 28s							5	0.24	9	0.60	7	0.64							5	0.25	2	0.10		
Metformin Tabs 850mg 56s							3	0.14	24	**1.60**	18	**1.64**							2	0.10	10	0.50	3	0.37
Metformin Tabs 850mg 84s									6	0.40	8	0.73							5	0.25	9	0.45	12	**1.47**
Glucagon Inj 1mg 1ml											3	0.27												
Oxytocin 5Iu/ml 5s					1	0.48																		
Oxytocin Inj 10Iu 1ml 5s					1	0.48	3	0.14																
Thyroxine Sodium Tabs 50µg 100s									1	0.07														
Thyroxine Sodium Tabs 100µg 28s											9	0.82												
Dexamethasone IM Inj 4mg/ml 1ml	1	0.09					4	0.19	2	0.13											1	0.05		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Fludrocortisone Acetate Tabs 0.1mg 100s																					1	0.05		
Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	5	0.46					11	0.52	9	0.60	2	0.18							1	0.05	1	0.05	6	0.74
Methylprednisolone Inj 40mg/ml 1ml	2	0.18																			2	0.10	1	0.12
Methylprednisolone Inj 40mg/ml 2ml																							1	0.12
Prednisolone Syr 15mg/5ml 50ml	11	**1.01**											2	0.70										
Prednisone Tabs 5mg 28s	3	0.27	13	**4.39**	4	**1.93**	46	**2.19**	17	**1.14**	14	**1.27**	1	0.35	5	**2.21**	2	**1.27**	39	1.95	62	**3.12**	17	**2.09**
Prednisone Tabs 5mg 100s							1	0.05											8	0.40				
Betamethasone Inj 4mg/ml 1ml																					1	0.05		
Carbamazepine Susp 100mg/5ml 250ml													1	0.35										
Carbamazepine CR Tabs 200mg 30s			5	**1.69**			8	0.38	15	**1.00**	7	0.64			1	0.44	1	0.64	35	**1.75**	14	0.70	12	**1.47**
Carbamazepine CR Tabs 400mg 30s							1	0.05	8	0.53									15	0.75	49	**2.46**	1	0.12
Clonazepam Inj 1mg/ml 1ml	1	0.09																						
Lamotrigine Tabs 25mg 60s									1	0.07									2	0.10	1	0.05		
Lorazepam Inj 4mg/ml 1ml					2	0.97	10	0.48	3	0.20														
Lorazepam Tabs 1mg 100s					1	0.48													1	0.05	2	0.10		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Lorazepam Tabs 2.5mg 100s																							1	0.12
Phenobarbitone Tabs 30mg 28s	5	0.46	1	0.34					2	0.13	4	0.36									4	0.20		
Phenobarbitone Tabs 30mg 56s											5	0.45			3	**1.33**			9	0.45	6	0.30	2	0.25
Phenobarbitone Vit Nicot Syrup 100ml	2	0.18											1	0.35										
Phenytoin Caps 100mg 84s			1	0.34			8	0.38	9	0.60	8	0.73									5	0.25		
Phenytoin Inj 50mg/ml 5ml	1	0.09					2	0.10	1	0.07	1	0.09												
Sodium Valproate Liqiud Sugar Free 200mg 300ml	1	0.09	2	0.68									1	0.35										
Sodium Valproate Tabs 200mg 28s															4	**1.77**					1	0.05		
Sodium Valproate Tabs Cr 300mg 84s															1	0.44								
Valproic Acid Caps 150mg 56s															2	0.88								
Valproic Acid Caps 500mg 100s																			2	0.10				
Lamotrigine Tabs 25mg 28s																			1	0.05	2	0.10	1	0.12
Bromocriptine Mesylate Tabs 2.5mg 30s					3	**1.45**															2	0.10		
Biperidin Inj 5mg/ml 5ml							1	0.05																
Carbidopa 25mg & Levodopa 250mg 100s											3	0.27												

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	1	0.09																						
Fluphenazine Decanoate Inj 25mg/ml 1ml																					1	0.05	1	0.12
Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml																			2	0.10				
Chlorpromazine Inj 25mg/ml 1ml							1	0.05																
Chlorpromazine Tabs 50mg 500s							1	0.05	3	0.20											7	0.35		
Chlorpromazine Tabs 100mg 500s																					3	0.15		
Haloperidol Inj 5mg/ml 1ml							6	0.29	3	0.20														
Haloperidol Tabs 5mg 14s					4	1.93	26	1.24	5	0.33	6	0.55									1	0.05		
Haloperidol Tabs 5mg 56s							4	0.19	1	0.07									1	0.05	3	0.15		
Chlorpromazine Tabs 25mg 28s									1	0.07	4	0.36							6	0.30	6	0.30	1	0.12
Amitriptyline Tabs 25mg 28s	1	0.09			1	0.48	28	1.34	22	1.47	16	1.45							26	1.30	33	1.66	21	2.58
Fluoxetine Caps 20mg 28s					1	0.48	7	0.33	10	0.67	7	0.64					1	0.64	8	0.40	11	0.55	2	0.25
Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml							1	0.05																
Imipramine Tabs 25mg 28s																					1	0.05		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Hydroxyzine Tabs 25mg 100s							1	0.05																
Diazepam Inj 5mg/ml 2ml	2	0.18	1	0.34			5	0.24	4	0.27	2	0.18	1	0.35	1	0.44					1	0.05	1	0.05
Diazepam Tabs 5mg 500s							2	0.10																
Diazepam Tabs 5mg 10s	2	0.18					14	0.67	3	0.20	4	0.36							1	0.05	5	0.25		
Naloxone Inj 0.4mg/ml 1ml																							1	0.12
Orphenadrine Tabs 50mg 28s					2	0.97	9	0.43	4	0.27	1	0.09							3	0.15	16	0.80		
Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s					1	0.48	2	0.10											1	0.05				
Albendazole Susp 100mg/5ml 20ml	9	0.82	1	0.34									1	0.35	1	0.44			4	0.20				
Albendazole Tabs 200mg 2s	3	0.27	1	0.34			1	0.05	1	0.07	3	0.27			3	1.33			4	0.20	3	0.15		
Aluminium Hydroxide Susp 350ml					2	0.97	12	0.57	17	1.14	19	1.73			1	0.44	1	0.64	15	0.75	14	0.70	7	0.86
Cimetidine IV Inj 100mg/ml 2ml					1	0.48	2	0.10	8	0.53	9	0.82							1	0.05				
Cimetidine Tabs 200mg 30s					1	0.48	3	0.14	5	0.33	2	0.18							2	0.10	4	0.20	2	0.25
Cimetidine Tabs 400mg 60s					1	0.48	2	0.10	9	0.60	8	0.73							4	0.20	7	0.35	1	0.12
Magnesium Trisillicate Co Mixt 200ml									1	0.07									1	0.05				
Misoprostol Tabs 0.2mg 60s							3	0.14											12	0.60	3	0.15		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Ranitidine HCl Tabs 300mg 30s											1	0.09												
Ranitidine Inj 25mg/ml 2ml																			1	0.05				
Omeprazole Caps 20mg 30s									4	0.27	1	0.09							1	0.05	1	0.05		
Cinnarizine Tabs 25mg 100s																							1	0.12
Metoclopramide Inj 5mg/ml 2ml	2	0.18	2	0.68	2	0.97	17	0.81	22	**1.47**	18	**1.64**					1	0.64	1	0.05	6	0.30		
Metoclopramide Syr 5mg/5ml 50ml	2	0.18											3	**1.05**										
Metoclopramide Tabs 10mg 15s					3	**1.45**	6	0.29	4	0.27	2	0.18							9	0.45	8	0.40	2	0.25
Prochlorperazine Inj 12.5mg/ml 1ml							2	0.10			1	0.09												
Metoclopramide Tabs 10mg 10s					3	**1.45**	6	0.29	9	0.60	7	0.64					1	0.64	9	0.45	6	0.30	1	0.12
Bismuth Sub Oxi Res Nic Zinc Oint 25g																					1	0.05		
Bismuth Sub Oxi Res Nic Ainc Supps 10s							5	0.24	1	0.07									5	0.25			3	0.37
Bisacodyl Supps 10mg 10s									1	0.07														
Glycerine Supps Adult 12s							1	0.05																
Lactulose Syr 3.35mg/5ml 150ml							4	0.19	2	0.13	2	0.18							2	0.10				
Magnesium Sulphate Crystals 500g																	1	0.64						
Senna Tabs 1000s							2	0.10																
Senna Tabs 7.5mg 12's							2	0.10			2	0.18							1	0.05	1	0.05		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Sodium Phosphate Enema Sol 135ml							1	0.05																
Half Darrows & Glucose 5% Sol 200ml	14	1.28	1	0.34											1	0.44								
Half Darrows & Glucose 5% Sol 500ml	5	0.46																						
Loperamide Tabs 2mg 6s							5	0.24	6	0.40	4	0.36			2	0.88			4	0.20	3	0.15	4	0.49
Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s															2	0.88					1	0.05		
Hyoscine-N-Butylbromide Inj 20mg/ml 1ml							5	0.24	5	0.33	3	0.27	1	0.35					1	0.05	4	0.20		
Hyoscine-N-Butylbromide Syr 100ml	1	0.09																						
Hyoscine-N-Butylbromide Tabs 10mg 10s							1	0.05	7	0.47	2	0.18	1	0.35					4	0.20	3	0.15		
Hyoscine-N-Butylbromide Inj 50mg/ml																	1	0.64					1	0.12
Hyoscine-N-Butylbromide Tabs 10mg 15s																			2	0.10			1	0.05
Liquid Paraffin 200ml	1	0.09					2	0.10	3	0.20	2	0.18							1	0.05	4	0.20	1	0.12
Sodium Sulphate, Sodium Bicarbonate, Sodium Chloride, Pottassium Chloride powder 59g	25	2.29	2	0.68			3	0.14	2	0.13	1	0.09	7	2.44					3	0.15	5	0.25	2	0.25

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Thymol Glycerin B.P. Mouth wash 100ml	2	0.18	1	0.34			5	0.24			2	0.18	1	0.35	1	0.44	3	**1.91**	11	0.55	10	0.50	1	0.12
Calcium Folinate Tabs 15mg																			1	0.05				
Electrolyte no 2 Sol 1000ml	2	0.18																						
Ringers Lactate 2000ml							1	0.05																
Ringers Lactate Sol 200ml	1	0.09																						
Ringers Lactate Sol 1000ml	2	0.18			2	0.97	28	**1.34**	9	0.60	9	0.82												
Sodium Chloride 0.9% for Irrigation 1000ml									1	0.07											1	0.05		
Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.09																						
Sodium Chloride 0.9% Inj 1000ml							5	0.24	11	0.73	5	0.45							2	0.10				
Sodium Chloride 0.9% Inj 50ml							1	0.05																
Sodium Chloride 0.9% Inj 200ml			2	0.68																				
Water for Inj 10ml									1	0.07														
Calciferol Tabs 50 000Iu 100s																			1	0.05				
Calcitriol Caps 0.25mg 30s			6	**2.03**																				
Calsium Carbonate & Glycine Tabs 420mg 300s			4	**1.35**																				
Calcium Gluconate Tabs 300mg 28s											3	0.27							3	0.15	3	0.15	4	0.49

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Magnesium Chloride Tabs 500-700mg 100s							1	0.05			1	0.09												
Potassium Chloride Syr 300mg/5ml 100ml	32	**2.93**					1	0.05																
Potassium Chloride Inj 15% 10ml																			1	0.05				
Potassium Chloride Slow Tabs 600mg 14s			1	0.34			13	0.62	12	0.80	17	**1.55**							3	0.15	13	0.65	12	1.47
Potassium Citrate Mixture 100ml	1	0.09					3	0.14	2	0.13	9	0.82	1	0.35					13	0.65			1	0.12
Thiamine IV Inj Vit B1 100mg/ml 10ml							1	0.05	2	0.13	1	0.09												
Thiamine Tabs 100mg 28s							6	0.29	10	0.67											1	0.05		
Vitamin A Caps 100 000Iu 250s	22	**2.01**											2	0.70										
Vitamin A Tabs 50 000Iu 200s	1	0.09																						
Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s							8	0.38	3	0.20					8	**3.54**			40	**2.00**	28	**1.41**		
Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	2	0.18	1	0.34															1	0.05				
Vitamin B Co Inj 10ml (IM)							1	0.05	2	0.13	2	0.18							2	0.10				
Vitamin B Co Strong Tabs 28s	1	0.09			10	**4.83**	60	**2.86**	25	**1.67**	26	**2.36**					1	0.64	34	1.70	32	**1.61**	13	**1.60**
Vitamin B Co Strong Tabs 1000s							1	0.05																
Vitamin B Co Syr 100ml	8	0.73	2	0.68			1	0.05	1	0.07			1	0.35										

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Vitamin B6 Tabs 25mg 28s							54	2.58	35	2.34	13	1.18							31	1.55	29	1.46	3	0.37
Vitamin C Tabs 100mg 28s					1	0.48	5	0.24	2	0.13	2	0.18			3	1.33			14	0.70	3	0.15		
Vitamin C Tabs 250mg 100s					1	0.48	10	0.48	5	0.33	3	0.27	1	0.35	1	0.44	3	1.91	25	1.25	11	0.55	1	0.12
Vitamin E Tabs 100mg 50s																			1	0.05				
Vitamin Multiple Oral drops 25ml	2	0.18																						
Vitamin Multiple Syr 100ml	135	12.36	20	6.76					1	0.07			44	15.33	12	5.31							2	0.25
Vitamin Multiple Tabs 28s	12	1.10	4	1.35	11	5.31	128	6.11	78	5.21	55	5.00	2	0.70	8	3.54	4	2.55	114	5.69	100	5.03	28	3.44
Bettaway Children's Own Tabs 60s	1	0.09					1	0.05																
Vi-Daylin Syrup with Minerals 150ml			6	2.03																				
Dextrose Sol for IV Infus 5% 50ml									1	0.07														
Dextrose Sol for IV Infus 5% 1000ml			1	0.34			3	0.14			2	0.18												
Dextrose Sol for IV Infus 10% 1000ml																			1	0.05				
Destrose Sol for IV Infus 50% 500ml									1	0.07														
Dextrose in Water Inj 50% 20ml	1	0.09																						
Sodium Alginate in a Hydro-active bas3e 50g							2	0.10			1	0.09												
Lignocaine Gel 2% 20g							4	0.19											5	0.25	1	0.05	3	0.37

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Allopurinol Tabs 300mg 30s									1	0.07	1	0.09									1	0.05	1	0.12
Aspirin Soluble Tabs 300mg 14s					2	0.97	12	0.57	25	**1.67**	42	**3.82**							11	0.55	43	**2.16**	39	**4.79**
Colchicine Tabs 1mg 60s											3	0.27									1	0.05		
Diclofenac Inj 25mg/ml 3ml					3	**1.45**	43	**2.05**	14	0.94	17	**1.55**					6	**3.82**	41	**2.05**	36	**1.81**	19	**2.33**
Diclofenac Tabs 25mg 42s					1	0.48	5	0.24	2	0.13	8	0.73					1	0.64	19	0.95	31	**1.56**	7	0.86
Ibuprofen Susp 100mg/5ml 100ml	7	0.64	5	**1.69**									5	**1.74**	5	**2.21**	1	0.64						
Ibuprofen Tabs 200mg 15s			3	**1.01**	18	**8.70**	104	**4.96**	71	**4.74**	47	**4.27**			3	**1.33**	28	**17.83**	161	**8.04**	115	**5.78**	49	**6.02**
Methyl Salicylate In Vaseline Oint 10% 25g					1	0.48	1	0.05	2	0.13	12	1.09			2	0.88			21	**1.05**	30	**1.51**	32	**3.93**
Paracetamol Codeine Phos Tabs 500mg/8mg 20s							2	0.10	2	0.13	2	0.18					1	0.64	11	0.55	12	0.60	8	0.98
Paracetamol Syr 120mg/5ml 50ml	83	**7.60**	9	**3.04**			1	0.05					48	**16.72**	18	**7.96**	1	0.64	243	**12.41**			1	0.12
Paracetamol Syr 120mg/5ml 100ml	22	**2.01**	11	**3.72**									8	**2.79**	7	**3.10**	2	1.27						
Paracetamol Tabs 500mg 10s	13	**1.19**	11	**3.72**	30	**14.49**	206	**9.83**	125	**8.35**	95	**8.64**	1	0.35	9	**3.98**	36	**22.93**			196	**9.85**	96	**11.79**
Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s					2	0.97	5	0.24	13	0.87	6	0.55							8	0.40	13	0.65	5	0.61
Tilidine Oral Drops 100mg/1ml 10ml			1	0.34									4	**1.39**	1	0.44								
Ibuprofen Tabs 200mg 30s					1	0.48	1	0.05	1	0.07														

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Diclofenac Tabs 25mg 28s					1	0.48	10	0.48	4	0.27	3	0.27					2	1.27	7	0.35	12	0.60	11	1.35
Codeine Phosphate Tabs 30mg 100s							3	0.14	5	0.33	12	1.09												
Morphine Sulphate IV Inj 15mg 1ml							2	0.10	3	0.20	1	0.09												
Morphine Sulphate Tabs 30mg 60s											1	0.09												
Pethidine IM Inj 50mg/ml 1ml 10s					1	0.48	15	0.72	5	0.33	4	0.36	1	0.35	1	0.44							1	0.12
Pethidine IM Inj 100mg/2ml 1ml 10s							9	0.43	6	0.40	2	0.18											1	0.12
Chloroquine Tabs 150mg 100s																					1	0.05		
Vaccine Immunoglobulin Human Anti-Rabies 150Iu																							1	0.12
Vaccine Rabies 2.5Iu/dose Single dose																							5	0.61
Vaccine Tetanus Adosrbed 10 dose 10ml	1	0.09	1	0.34	1	0.48	7	0.33							1	0.44	3	1.91	18	0.90	2	0.10		
Beclomethasone MDI 100mg 200 dose									2	0.13					1	0.44	2	1.27	5	0.25	1	0.05	4	0.49
Beclomethasone nasal Spray Aqueous 50mg							1	0.05																
Budesonide MDI 200mg 300 dose									1	0.07									1	0.05				
Fenoterol Inhaler Complete 100									1	0.07														
Fenoterol UDV 0.5mg/2ml 60s	8	0.73							1	0.07									1	0.05	2	0.10		

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Ipratropium UDV 0.25mg/2ml 2ml 60s	3	0.27																						
Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s																					1	0.05		
Salbutamol MDI Complete 100mg 200 dose	1	0.09					1	0.05	5	0.33	2	0.18			5	**2.21**	2	**1.27**	11	0.55	2	0.10	11	**1.35**
Salbutamol Syr 2mg/5ml 150ml	15	**1.37**					2	0.10							3	**1.33**					1	0.05		
Salbutamol Tabs 2mg 28s	1	0.09																	1	0.05	1	0.05		
Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	8	0.73							2	0.13			2	0.70					1	0.05	3	0.15	1	0.12
Salmeterol Accuhaler 0.05mg 60 Dose																							2	0.25
Theophylline Syr 200ml	9	0.82					19	0.91	15	1.00	8	0.73	9	**3.14**	2	0.88	1	0.64	15	0.75	12	0.60	8	0.98
Theophylline Syr 25mg/5ml 500ml									1	0.07														
Theophylline Anhydrous Tabs 200mg 60s									3	0.20	2	0.18					2	**1.27**	6	0.30			6	0.74
Theophylline Anhydrous Tabs 250mg 56s	1	0.09					2	0.10	2	0.13	1	0.09											3	0.37
Mist Expectorant Stim Syr Adult 200ml					1	0.48	2	0.10	7	0.47	4	0.36			2	0.88			14	0.70	6	0.30	2	0.25
Mist Tussi Infants Mist 100ml	5	0.46	1	0.34			1	0.05	1	0.07			13	**4.53**	3	**1.33**			6	0.30	1	0.05	1	0.12
Ethionamide Tabs 250mg 250s	3	0.27																						
Pyrazinamide Tabs 500mg 28s									1	0.07														

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Rifampicin Caps 150mg 100s									3	0.20														
Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	39	**3.57**	2	0.68									2	0.70										
Rifampicin 150mg, Isoniazid 75mg Tabs 60s	7	0.64					8	0.38	5	0.33									3	0.15	1	0.05		
Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s							45	**2.15**	23	**1.54**	3	0.27							15	0.75	9	0.45		
Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s							1	0.05																
Rifampicin 300mg & Isoniazid 150mg Tabs 40s																			4	0.20				
Streptomycin Inj 1g/3ml							3	0.14																
Streptomycin Sulphate Inj 5g/15ml									3	0.20														
Pseudoephedrine Sulphate Syr 30mg/5ml 50ml																							1	0.12
Pseudoephedrine Tabs 60mg 20s					1	0.48									1	0.44			5	0.25	1	0.05	1	0.12
Chlorpheniramine Mal Tabs 4mg 30s					1	0.48	8	0.38	9	0.60	5	0.45			1	0.44	1	0.64	32	**1.60**	20	1.01	10	1.23

Appendix D.7: Frequency of therapeutic codes according to age groups (continue)

Therapeutic code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Promethazine Inj 25mg/ml 1ml	1	0.09					2	0.10																
Promethazine Inj 25mg/ml 2ml																	2	**1.27**	1	0.05	3	0.15		
Promethazine Tabs 25mg 500s							2	0.10									3	**1.91**	2	0.10	4	0.20		
Chlorpheniramine Mal Syr 2mg/5ml 50ml	3	0.27	1	0.34									7	**2.44**	6	**2.65**								
Total	1092	100	296	100	207	100	2096	100	1497	100	1100	100	287	100	226	100	157	100	2002	100	1989	100	814	100

** Percentage was calculated for each therapeutic code according to the total number of medicine items dispence to inpatients and outpatients in the different age groups respectively*

Appendix D.8: Frequency of top 10 therapeutic codes

Therapeutic code	Inpatients			Therapuetic code	Outpatients		
	Rank	n	%*		Rank	n	%*
Paracetamol Tabs 500mg 10s	1	480	7.63	Paracetamol Tabs 500mg 10s	1	583	10.64
Vitamin Multiple Tabs 28s	2	288	4.58	Ibuprofen Tabs 200mg 15s	2	357	6.51
Ibuprofen Tabs 200mg 15s	3	243	3.86	Vitamin Multiple Tabs 28s	3	256	4.67
Folic Acid Tabs 5mg 28s	4	223	3.55	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	4	178	3.25
Vitamin Multiple Syr 100ml	5	156	2.48	Lamivudine Tabs 150mg 60s	5	155	2.83
Ampicillin Inj 500mg	6	147	2.34	Prednisone Tabs 5mg 28s	6	126	2.30
Ferrous Sulphate Co Tabs eq 65mg Fe 28s	7	138	2.19	Hydrochlorothiazide Tabs 25mg 28s	7	116	2.12
Gentamicin Inj 80mg/2ml 2ml	8	126	2.00	Diclofenac Inj 25mg/ml 3ml	8	103	1.88
Vitamin B Co Strong Tabs 28s	9	122	1.94	Amoxycillin Caps 500mg 15s	9	101	1.84
Metronidazole IV Inj 500mg/ml 100ml	10	115	1.83	Stavudine D4t Caps 40mg 60s	10	98	1.79
Total of top 10 therapeutic codes		**2038**	**32**	**Total of top 10 therapeutic codes**		**2073**	**38**
Total of all therapeutic codes		**6288**	**100**	**Total of all therapeutic codes**		**5480**	**100**

* Percentages was calculated for each therapeutic code according to total number of medicine items dispenced to inpatients and outpatients respectively

Appendix D.9: Frequency of ICD-10 codes according to gender

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

ICD-10 code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Diarrhoea, infective / food poisoning	96	**4.25**	92	2.28	9	0.43	15	0.44
Tuberculosis	87	**3.85**	119	2.95	9	0.43	28	0.83
Septicaemia	3	0.13	2	0.05				
STD suspicion	5	0.22			16	0.76	9	0.27
Vaginal discharge			1	0.02				
Herpes viral inflammation of perianal skin & rectum	2	0.09						
Genital warts	3	0.13			1	0.05	4	0.12
Rabies					6	0.29		
Herpes simplex / cold sore							1	0.03
Undefined bacterial infection	216	**9.56**	471	**11.69**	198	**9.45**	304	**8.98**
Undefined viral infection	8	0.35	8	0.20	6	0.29	6	0.18
Karposi's sarcoma			4	0.10				
Unspecified HIV	52	2.30	189	**4.69**	221	**10.54**	456	**13.74**
Fungal skin infection	5	0.22	7	0.17	9	0.43	12	0.35
Scabies	4	0.18	1	0.02	3	0.14	8	0.24
Candidiasis	4	0.18	17	0.42	3	0.14	1	0.03
Cryptococcus - cerebral meningitis			4	0.10				
Malaria							1	0.03
Worm infections except tape worm	9	0.40	8	0.20	6	0.29	6	0.18
Hypercalcaemia	1	0.04						
Malignant neoplasm of testis, unspecified	7	0.31						
Cancer of penis, unspecified	2	0.09						
Multiple myeloma	2	0.09						
Unspecified folate deficiency anemia	64	2.83	157	**3.90**	16	0.76	27	0.80
Unspecified anemia	35	1.55	148	**3.67**	10	0.48	32	0.95
Unspecified coagulation defects	48	2.12	93	2.31	32	1.53	91	2.69
Hypothyroidism, unspecified			9	0.22				
Diabetes mellitus type 2	6	0.27	40	0.99	27	1.29	7	0.21
Diabetes mellitus type 1	26	1.15	69	1.71	10	0.48	52	1.54
Hypoglycaemia/hyperglycaemia in diabetes mellitus	1	0.04	4	0.10				

Appendix D.9: Frequency of ICD-10 codes according to gender (continue)

ICD-10 code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Pellagra	2	0.09						
Vitamin deficiency	255	**11.28**	519	**12.88**	242	**11.55**	364	**10.76**
Mineral deficiency	30	1.33	84	2.09	16	0.76	37	1.09
Cholesterol			4	0.10	5	0.24		
Sodium & water disturbances	1	0.04			27	1.29		
Disorders of acid-base balance	36	1.59	68	1.69	10	0.48	34	1.00
Other disorders of fluid & electrolyte balance	61	2.83	74	1.84			18	0.53
Schizophrenic disorder					3	0.14	1	0.03
Bipolar affective disorder			1	0.02				
Bipolar disorder	21	0.93	45	1.12	10	0.48	19	0.56
Major depressive disorder	21	0.93	75	1.86	25	1.19	78	2.30
Meningitis, bacterial	2	0.09	4	0.10				
Inflammation	45	1.99	88	2.18	58	2.77	110	**3.25**
Parkinsonism			7	0.17			2	0.06
Symptomatic epilepsy with complex partial seizures	3	0.13	7	0.17			90	2.66
Epilepsy	59	2.61	58	1.44	91	**4.34**		
Status epileptics, unspecified			1	0.02				
Acute inflammation of orbit (cellulites of the eye)	8	0.35						
Conjunctivitis	7	0.31	1	0.02	15	0.72	12	0.35
Otitis externa							1	0.03
Otitis media			5	0.12				
Rheumatic fever without mentionintg of heart involvement	15	0.66						
Hypertension	107	**4.73**	364	**9.04**	132	**6.30**	308	**9.10**
Angina	3	0.13	8	0.20	2	0.10	6	0.18
Congestive cardiac failure	2	0.09	11	0.27				
Cardial failure	4	0.18	10	0.25	5	0.24	12	0.35
Arteriosclerotic gangerene			2	0.05				
Haemorrhoids	3	0.13	3	0.07	7	0.33	4	0.12
Sinusitis	3	0.13			8	0.38	15	0.44
Tonsillitis (bacterial)	5	0.22	5	0.12			5	0.15
Gastro-enteritis	5	0.22						
Acute upper respiratory track infection, unspecified			2	0.05	9	0.43	7	0.21
Brongopneomonia, unspecified	14	0.62	31	0.77			1	0.03

Appendix D.9: Frequency of ICD-10 codes according to gender (continue)

ICD-10 code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Pneumonia, unspecified	23	1.02	62	1.54				
Allergic rhinitis					1	0.05		
Chronic obstructive pulmonary disease with lower respiratory infe	23	1.02	12	0.30	4	0.19	1	0.03
Asthma, acute OR asthma, chronic persistent	66	2.92	82	2.04	52	2.48	100	2.96
Abscess of the lung without pneumonia	15	0.66	7	0.17				
Haemothorax	2	0.09						
Dental abscess	7	0.31	3	0.07	11	0.52	21	0.62
Mouth abscess	18	0.80	4	0.10	1	0.05	6	0.18
Peptic ulcer	10	0.44	5	0.12				
Gastritis - acute haemorrhagic	4	0.18	21	0.52				
Appendicitis, unspecified			3	0.07				
Urinary tract infection	1	0.04	2	0.05				
Constipation	8	0.35	27	0.67	5	0.24	5	0.15
Gastro-intestinale haemorrhage, unspecified			4	0.10				
Alcohol liver disease, unspecified			2	0.05				
Abdominal cramps	4	0.18	27	0.67	6	0.29	15	0.44
Boils / impetigo			3	0.07	1	0.05		
Unspecified cellulites	12	0.53	4	0.10				
Dermatitis herpetiformis	3	0.13						
Rash			1	0.02	3	0.14		
Pruritus					7	0.33	8	0.24
Psoriasis							12	0.35
Septic arthritis, acute	10	0.44	4	0.10				
Gout	5	0.22			2	0.10	1	0.03
Muscle relaxant	3	0.13	13	0.32	12	0.57	7	0.21
Nephritis			5	0.12				
Chronic obstructive pyelonephritis	3	0.13						
Urinary track infection, uncomplicated	9	0.40	5	0.12	7	0.33	15	0.44
Benign prostatic hyperplasia	2	0.09						
Pelvic inflammation disease			6	0.15				
Bartholin's abscess			7	0.17				
Vaginal bleeding			1	0.02				
Abortion, complicated, therapeutic, legal	1	0.04	33	0.82			50	1.48

Appendix D.9: Frequency of ICD-10 codes according to gender (continue)

ICD-10 code	Inpatients				Outpatients			
	Male		Female		Male		Female	
	n	%*	n	%*	n	%*	n	%*
Abscess of the breast			6	0.15				
Congenital malformations of heart, unspecified			1	0.02				
Cough	7	0.31	15	0.37	18	0.86	31	0.92
Gastro diarrhoea	3	0.13						
Nausea	31	1.37	78	1.94	14	0.67	34	1.00
Pain control	527	**23.32**	572	**14.20**	622	**29.68**	769	**22.72**
Anaphylactic shock / shock			1	0.02				
Feeding supplement			1	0.02				
Wound caring	1	0.04						
Amputastion of upper limb, level unspecified			7	0.17				
Foreign body in ear (wax)	2	0.09	1	0.02	5	0.24	10	0.30
Burns, complicated					1	0.05		
Toxic effects of petroleum products							1	0.03
Bites and Stings	4	0.18						
Toxic effects of poisons (nspecified substance)			2	0.05				
Rape			3	0.07			6	0.18
Antihistamine for allergies	10	0.44	29	0.72	32	1.53	68	2.01
Failed or difficult intubations	1	0.04	1	0.02				
Sedation	21	0.93	13	0.32	5	0.24	5	0.15
Unknown diagnose	15	0.66	20	0.50	21	1.00	7	0.21
Hormone replacement therapy			2	0.05			10	0.30
Immunisation	8	0.35	2	0.05	19	0.91	6	0.18
Family planning			10	0.25			3	0.09
Post partum bleeding			1	0.02				
Totaal	**2260**	**100**	**4028**	**100**	**2096**	**100**	**3384**	**100**

* Percentage was calculated for each ICD-10 code according to total number of medicine items dispenced to male and female in- and outpatients respectively

Appendix D.10: Frequency of ICD-10 codes according to age groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

ICD-10 code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Diarrhoea, infective / food poisoning	120	**10.99**	4	1.35			31	1.48	8	0.53	25	2.27			3	1.33			4	0.20	12	0.60	5	0.61
Tuberculosis	*53*	***4.85***	2	0.68			*90*	***4.29***	*56*	**3.74**	5	0.45	2	0.70					24	1.20	11	0.55		
Septicaemia	3	0.27									2	0.18												
STD suspicion							5	0.24											16	0.80	6	0.30	3	0.37
Vaginal discharge											1	0.09												
Herpes viral inflammation of perianal skin & rectum							2	0.10																
Genital warts							3	0.14											1	0.05	4	0.20		
Rabies																							6	0.74
Herpes simplex / cold sore																			1	0.05				
Undefined bacterial infection	148	**13.55**	23	**7.77**	22	**10.63**	251	**11.98**	183	**12.22**	60	**5.45**	55	**19.17**	22	**9.73**	19	**12.10**	224	**11.19**	137	**6.89**	45	**5.53**
Undefined viral infection			1	0.34			14	0.67	1	0.07			1	0.35					7	0.35	3	0.15	1	0.12
Karposi's sarcoma							4	0.19																
Unspecified HIV	27	2.47	36	**12.16**			102	**4.87**	76	**5.08**			16	**5.57**	57	**25.22**	2	1.27	330	**16.48**	281	**14.13**		
Fungal skin infection	2	0.18					5	0.24	5	0.33			2	0.70	2	0.88			8	0.40	8	0.40	1	0.12
Scabies	2	0.18	3	1.01									1	0.35			5	**3.18**	5	0.25				
Candidiase	6	0.55	1	0.34			8	0.38	1	0.07	5	0.45	1	0.35	1	0.44			1	0.05			1	0.12
Cryptococcus - cerebral meningitis			4	1.35																				
Malaria																					1	0.05		
Worm infections except tape worm	10	0.92	2	0.68			1	0.05	1	0.07	3	0.27	1	0.35	4	1.77			4	0.20	3	0.15		
Hypercalcaemia							1	0.05																
Malignant neoplasm of testis, unspecified									7	0.47														
Cancer of penis, unspecified											2	0.18												
Multiple myeloma									2	0.13														
Unspecified folate deficiency anemia	80	**7.33**	17	5.74	8	**3.68**	76	**3.63**	22	1.47	18	1.64	8	2.79					22	1.10	11	0.55	2	0.25
Unspecified anemia	22	2.01	2	0.68	13	**6.28**	93	**4.44**	32	2.14	21	1.91	1	0.35	1	0.44			28	1.40	8	0.40	4	0.49

Appendix D.10: Frequency of ICD-10 codes according to age groups (continue)

ICD-10 code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Unspecified coagulation defects					6	2.90	25	1.19	58	**3.87**	52	**4.73**					2	1.27	16	0.80	61	**3.07**	44	**5.41**
Hypothyroidism, unspecified											9	0.82												
Diabetes mellitus type 1							8	0.38	21	1.40	17	1.55							6	0.30	28	1.41		
Diabetes mellitus type 2							8	0.38	46	**3.07**	41	**3.73**							13	0.65	25	1.26	24	2.95
Hypoglycaemia/hyperglycaemia in diabetes mellitus							1	0.05			4	0.36												
Pellagra									2	0.13														
Vitamin deficiency	182	**16.67**	27	**9.12**	23	**11.11**	275	**13.12**	165	**11.02**	102	**9.27**	50	**17.42**	32	**14.16**	8	**5.10**	265	**13.24**	204	**10.26**	47	**5.77**
Mineral deficiency	33	**3.02**	18	**6.08**			18	0.86	15	1.00	30	2.73	1	0.35					19	0.95	16	0.80	17	2.09
Cholesterol									1	0.07	3	0.27									3	0.15	2	0.25
Sodium & water disturbances											1	0.09									26	1.31		
Disorders of acid-base balance			7	2.36	5	2.42	14	0.67	43	2.87	35	**3.18**			1	0.44	1	0.64	23	1.15			10	1.23
Other disorders of fluid & electrolyte balance	40	**3.66**	4	1.35	2	0.97	44	2.10	27	1.80	21	1.91	9	**3.14**	2	0.88			8	0.40	7	0.35	2	0.25
Schizophrenic disorder																			2	0.10	1	0.05	1	0.12
Bipolar affective disorder					1	0.48																		
Bipolar disorder					3	1.45	38	1.81	13	0.87	12	1.09							7	0.35	21	1.06	1	0.12
Major depressive disorder	1	0.09			2	0.97	37	1.77	32	2.14	21	1.91					1	0.64	34	1.70	45	2.26	23	2.83
Meningitis, bacterial	4	0.37					2	0.10																
Inflammation	16	1.47			5	2.42	66	**3.15**	29	1.94	17	1.55	4	1.39	1	0.44			56	2.80	86	**4.32**	21	2.58
Parkinsonism					3	1.45	1	0.05			3	0.27									2	0.10		
Symptomatic epilepsy with complex partial seizures	10	0.92																						
Epilepsy	13	1.19	9	**3.04**	3	1.45	29	1.38	38	2.54	25	2.27	3	1.05	11	**4.87**	1	0.64	65	**3.25**	84	**4.22**	17	2.09
Status epileptics, unspecified	1	0.09																						
Acute inflammation of orbit (cellulites of the eye)							8	0.38																
Conjunctivitis	1	0.09					7	0.33					2	0.70	3	1.33			10	0.50	4	0.20	8	0.98
Otitis externa																	1	0.64						
Otitis media			5	1.69																				

Appendix D.10: Frequency of ICD-10 codes according to age groups (continue)

ICD-10 code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Rheumatic fever without mentioning of heart involvement			1	0.34	14	**6.76**																		
Hypertension	2	0.18	45	**15.20**	4	1.93	52	2.48	162	**10.82**	206	**18.73**	1	0.35					11	0.55	233	**11.71**	195	**23.96**
Angina							3	0.14	8	0.53									2	0.10	6	0.30		
Congestive cardiac failure							3	0.14	2	0.13	8	0.73												
Cardial failure									7	0.47	7	0.64									7	0.35	10	1.23
Arteriosclerotic gangerene									2	0.13														
Haemorrhoids							5	0.24	1	0.07									5	0.25	3	0.15	3	0.37
Sinusitis	1	0.09			2	0.97							3	1.05	2	0.88	1	0.64	9	0.45	5	0.25	3	0.37
Tonsillitis (bacterial)			10	**3.38**															3	0.15	2	0.10		
Gastro-enteritis	5	0.46																						
Acute upper respiratory track infection, unspecified	2	0.18											7	2.44					7	0.35	1	0.05	1	0.12
Brongopneomonia, unspecified	36	**3.30**	2	0.68			6	0.29	1	0.07									1	0.05				
Pneumonia, unspecified	16	1.47			4	1.93	50	2.39	8	0.53	7	0.64												
Allergic rhinitis																			1	0.05				
Chronic obstructive pulmonary disease with lower respiratory infection	33	**3.02**							2	0.13			3	1.05					1	0.05	1	0.05		
Asthma, acute OR asthma, chronic persistent	50	**4.58**	13	**4.39**			30	1.43	40	2.67	15	1.36	12	**4.18**	15	**6.64**	9	**5.73**	45	2.25	27	1.36	44	**5.41**
Abscess of the lung without pneumonia							16	0.76	6	0.40														
Haemothorax							2	0.10																
Dental abscess			3	1.01			5	0.24			2	0.18	1	0.35	3	1.33	5	**3.18**	11	0.55	10	0.50	2	0.25
Mouth abscess			3	1.01			9	0.43	6	0.40	4	0.36			2	0.88	2	1.27	2	0.10	1	0.05		
Peptic ulcer							1	0.05	9	0.60	5	0.45												
Gastritis - acute haemorrhagic							11	0.52	4	0.27	10	0.91												
Appendicitis, unspecified									3	0.20														
Urinary tract infection							2	0.10			1	0.09												
Constipation	1	0.09					22	1.05	6	0.40	6	0.55							4	0.20	5	0.25	1	0.12
Alcohol liver disease, unspecified									4	0.27														

Appendix D.10: Frequency of ICD-10 codes according to age groups (continue)

ICD-10 code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Gastro-intestinale haemorrhage, unspecified											2	0.18												
Abdominal cramps	3	0.27					10	0.48	12	0.80	6	0.55	2	0.70			1	0.64	8	0.40	8	0.40	2	0.25
Boils / impetigo			3	1.01									1	0.35										
Unspecified cellulites							16	0.76																
Dermatitis herpetiformis									3	0.20														
Rash			1	0.34															3	0.15				
Pruritus													1	0.35					7	0.35	3	0.15	4	0.49
Psoriasis																					11	0.55	1	0.12
Septic arthritis, acute	4	0.37					10	0.48																
Gout									1	0.07	4	0.36									2	0.10	1	0.12
Muscle relaxant					2	0.97	9	0.43	4	0.27	1	0.09							3	0.15	15	0.75	1	0.12
Nephritis							5	0.24																
Chronic obstructive pyelonephritis											3	0.27												
Urinary track infection, uncomplicated	1	0.09					6	0.29			7	0.64			1	0.44	1	0.64	15	0.75	2	0.10	3	0.37
Benign prostatic hyperplasia											2	0.18												
Pelvic inflammation disease					6	2.90																		
Bartholin's abscess							7	0.33																
Vaginal bleeding	1	0.09																						
Abortion, complicated, therapeutic, legal					6	2.90	28	1.34									3	1.91	36	1.80	11	0.55		
Abscess of the breast							6	0.29																
Congenital malformations of heart, unspecified											1	0.09												
Cough	6	0.55	1	0.34	1	0.48	3	0.14	7	0.47	4	0.36	14	**4.88**	5	2.21			20	1.00	7	0.35	3	0.37
Gastro diarrhoea							3	0.14																
Nausea	4	0.37	2	0.68	8	**3.86**	30	1.43	37	2.47	28	2.55	3	1.05			2	1.27	19	0.95	20	1.01	4	0.49
Pain control	128	**11.72**	40	**13.51**	59	**28.50**	412	**19.66**	250	**16.70**	210	**19.09**	67	**23.34**	46	**20.35**	78	**49.68**	516	**25.77**	447	**22.47**	233	**28.62**
Anaphylactic shock / shock	1	0.09																						
Feeding supplement			1	0.34																				
Wound caring									1	0.07														

Appendix D.10: Frequency of ICD-10 codes according to age groups (continue)

ICD-10 code	Inpatients												Outpatients											
	<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60		<0≤6		>6≤12		>12≤19		>19≤40		>40≤60		>60	
	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*	n	%*
Amputation of upper limb, level unspecified	7	0.64																						
Foreign body in ear (wax)	2	0.18							1	0.07			2	0.70	3	1.33	1	0.64	5	0.25	2	0.10	2	0.25
Burns, complicated																					1	0.05		
Toxic effects of petroleum products													1	0.35										
Bites and Stings							4	0.19																
Toxic effects of poisons (unspecified substance)	2	0.18																						
Rape			3	1.01													3	1.91	3	0.15				
Antihistamine for allergies	6	0.55	1	0.34	1	0.48	14	0.67	9	0.60	8	0.73	7	2.44	7	**3.10**	6	**3.82**	36	1.80	34	1.71	10	1.23
Failed or difficult intubations							1	0.05	1	0.07														
Sedation	4	0.37	1	0.34			20	0.95	6	0.40	3	0.27	1	0.35	1	0.44			1	0.05	6	0.30	1	0.12
Unknown diagnose	2	0.18					10	0.48	8	0.53	15	1.37	3	1.05			1	0.64	10	0.50	13	0.65	1	0.12
Hormone replacement therapy									2	0.13			1	0.35					1	0.05	4	0.20	4	0.49
Immunisation	1	0.09	1	0.34	1	0.48	7	0.33							1	0.44	3	1.91	18	0.90	2	0.10		
Family planning					3	1.45	7	0.33									1	0.64			2	0.10		
Post partum bleeding							1	0.05																
Total	1092	100	296	100	207	100	2096	100	1497	100	1100	100	287	100	226	100	157	100	2002	100	1989	100	814	100

* Percentage was calculated for each ICD-10 code according to total number of medicine items dispenced to inpatients and outpatients in the different age groups respectively

Appendix D.11: Frequency of top 10 ICD-10 codes

ICD-10 code	Inpatients			ICD-10 code	Outpatients		
	Rank	n	%*		Rank	n	%*
Pain control	1	1099	17.48	Pain control	1	1391	25.38
Vitamin deficiency	2	774	12.31	Unspecified HIV	2	686	12.52
Undefined bacterial infection	3	687	10.93	Vitamin deficiency	3	606	11.06
Hypertension	4	471	7.49	Undefined bacterial infection	4	502	9.16
Unspecified HIV	5	241	3.83	Hypertension	5	440	8.03
Unspecified folate deficiency anemia	6	221	3.51	Status epileptics, unspecified	6	181	3.30
Tuberculosis	7	206	3.28	Inflammation	7	168	3.07
Gastro diarrhoea	8	188	2.99	Asthma	8	152	2.77
Unspecified anemia	9	183	2.91	Unspecified coagulation defects	9	123	2.24
Asthma	10	148	2.35	Depression episodes, unspecified	10	103	1.88
Total of top 10 ICD-10 codes		**4218**	**67**	**Total of top 10 ICD-10 codes**		**4352**	**79**
Total of all ICD-10 codes		**6288**	**100**	**Total of all ICD-10 codes**		**5480**	**100**

* Percentage was calculated for ICD-10 codes according to the total number of medicine items dispensed to inpatients and outpatients respectively

Appendix D.12: Average medicine cost per consultation according to pharmacological groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Antibacterial (penicillins)	585	12.40	55.96 ± 88.09	32735.43	26.90	2.17	348	6.41	13.64 ± 28.61	4746.85	4.61	0.72
Anti-infective (cephalosporins)	75	1.59	**211.01 ± 292.60**	15825.63	13.00	**8.18**	15	0.28	25.07 ± 28.42	376.00	0.37	1.32
Antibacterial (chloramphenicol, erythromycin)	475	10.07	3.37 ± 22.42	1602.24	1.32	0.13	455	8.38	8.36 ± 72.94	3804.45	3.69	0.44
Antiviral	73	1.55	**127.31 ± 128.07**	9293.36	7.64	**4.93**	520	9.57	87.90 ± 116.95	45708.45	44.39	4.64
Antifungal (oral/injection)	17	0.36	4.28 ± 5.32	72.70	0.06	0.17	6	0.11	5.32 ± 3.27	31.95	0.03	0.28
Cancer chemotherapy							12	0.22	9.07 ± 4.44	108.80	0.11	0.48
Anti-angina	9	0.19	1.43 ± 1.29	12.87	0.01	0.06	9	0.17	5.06 ± 2.99	45.52	0.04	0.27
Antihypertensive	238	5.05	24.93 ± 61.97	5932.94	4.87	0.97	439	8.08	19.44 ± 43.59	8534.61	8.29	1.03
Congestive heart failure drugs	17	0.36	2.89 ± 2.34	49.06	0.04	0.11	17	0.31	3.89 ± 1.11	66.13	0.06	0.21
Antithrombotic and anticoagulants	47	1.00	**111.75 ± 402.17**	5252.40	4.32	**4.33**	29	0.53	31.72 ± 36.81	919.88	0.89	1.67
Drugs affecting the blood	287	6.09	1.89 ± 5.03	541.52	0.44	0.07	85	1.57	5.23 ± 27.30	444.79	0.43	0.28
Hypolipidaemic agents	4	0.08	6.70 ± 6.95	26.81	0.02	0.26	5	0.09	7.81 ± 1.63	39.05	0.04	0.41
Antifungal (topical)	17	0.36	24.84 ± 19.78	422.29	0.35	0.96	24	0.44	12.53 ± 16.15	300.72	0.29	0.66
Antiseptic, antiviral, keratoplastic & keratolytic agents	5	0.11	38.04 ± 48.62	190.21	0.16	1.47	16	0.29	23.32 ± 12.96	373.19	0.36	1.23
Antipruritic & anti-inflammatory agents	17	0.36	1.90 ± 2.61	32.36	0.03	0.07	54	0.99	3.58 ± 6.92	193.28	0.19	0.19
Keratoplastic & keratolytic agents							1	0.02	18.23 ± 0	18.23	0.02	0.96
Scabicides & pediculocides	5	0.11	1.07 ± 0.46	5.34	0.00	0.04	10	0.18	2.40 ± 2.20	24.01	0.02	0.13
Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	10	0.21	2.27 ± 3.15	22.75	0.02	0.09	16	0.29	16.65 ± 61.96	266.36	0.26	0.88
Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	4	0.08	9.34 ± 8.80	37.37	0.03	0.36	2	0.04	9.34 ± 10.78	18.69	0.02	0.49

Appendix D.12: Average medicine cost per consultation according to pharmacological groups (continue)

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Eye preparations (anti-infective)	11	0.23	3.79 ± 4.68	41.73	0.03	0.15	22	0.41	14.40 ± 13.02	316.85	0.31	0.76
Eye preparations (local anesthetic)							1	0.02	60.00 ± 0	60.00	0.06	**3.16**
Eye preparations (anti-allergic & anti-inflammatory including corticosteroids & decongestants)	1	0.02	4.73 ± 0	4.73	0.00	0.18	15	0.28	4.73 ± 0	70.92	0.07	0.25
Ear and nose preparations	11	0.23	3.53 ± 6.67	38.84	0.03	0.14	28	0.52	6.12 ± 7.26	171.32	0.17	0.32
Corticosteroids for topical use	2	0.04	2.85 ± 1.34	5.70	0.00	0.11	11	0.20	2.97 ± 2.96	32.63	0.03	0.16
Contraceptive (barrier method)	1	0.02	0 ± 0	0.00	0.00	0.00						
Contraceptive (injectable)	1	0.02	**113.92 ± 0**	113.92	0.09	**4.41**	2	0.04	56.96 ± 0	113.92	0.11	3.00
Contraceptive (oral)	2	0.04	22.27 ± 3.52	44.54	0.04	0.86	1	0.02	19.37 ± 0	19.37	0.02	1.02
Hormone, androgen, oestrogen & progesterone	2	0.04	13.53 ± 1.60	27.06	0.02	0.52	10	0.18	16.46 ± 12.84	164.61	0.16	0.87
Antidiabetic agents (injection)	28	0.59	46.36 ± 35.87	1297.98	1.07	1.80	33	0.61	44.23 ± 48.02	1459.49	1.42	2.33
Antidiabetic agents (oral)	64	1.36	6.63 ± 7.16	424.19	0.35	0.26	62	1.14	8.16 ± 3.40	505.85	0.49	0.43
Antihypoglucaemic agents	3	0.06	**1097.74 ± 914.63**	3293.22	2.71	**42.54**						
Oxytoxins and other obstetric drugs	5	0.11	9.96 ± 2.47	49.82	0.04	0.39						
Thyroid and parathyroid preparations	10	0.21	5.22 ± 3.00	52.24	0.04	0.20						
Corticosteroids for systemic use (oral/injection)	128	2.71	20.46 ± 45.03	2619.36	2.15	0.79	116	2.14	7.37 ± 13.00	855.15	0.83	0.39
Anti-epileptic	93	1.97	26.03 ± 36.26	2420.69	1.99	1.01	180	3.31	22.83 ± 17.43	4110.29	3.99	1.20
Antiparkinsonism	7	0.15	22.86 ± 33.44	160.01	0.13	0.89	2	0.04	69.00 ± 0	138.00	0.13	**3.64**
Anti-allergic & anaphylaxis	1	0.02	0.94 ± 0	0.94	0.00	0.04						
Psychitropic disorder (schizophrenia)							4	0.07	12.72 ± 4.50	50.87	0.05	0.67
Psychotic disorder	61	1.29	11.11 ± 32.11	677.48	0.56	0.43	28	0.52	3.02 ± 1.51	84.51	0.08	0.16
Mood disorder	93	1.97	11.41 ± 13.48	1061.36	0.87	0.44	103	1.90	16.75 ± 8.70	1724.80	1.68	0.88
Hypnotics/sedatives	37	0.78	0.62 ± 0.82	23.09	0.02	0.02	10	0.18	0.46 ± 0.34	4.57	0.00	0.02

Appendix D.12: Average medicine cost per consultation according to pharmacological groups (continue)

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Muscle relaxant (central & peripherally acting)	16	0.34	2.78 ± 2.86	44.51	0.04	0.11	20	0.37	4.75 ± 0.79	94.98	0.09	0.25
Antimigraine agents	3	0.06	19.80 ± 0	59.40	0.05	0.77	1	0.02	19.80 ± 0	19.80	0.02	1.04
Antihelmenthics	19	0.40	7.59 ± 6.81	144.23	0.12	0.29	12	0.22	7.50 ± 3.57	90.01	0.09	0.40
Antacid / anti-ulcer	71	1.51	17.55 ± 14.59	1245.96	1.02	0.68	78	1.44	16.82 ± 10.73	1311.60	1.27	0.89
Anti-emetic	89	1.89	5.23 ± 7.09	465.06	0.38	0.20	48	0.88	1.43 ± 0.95	68.60	0.07	0.08
Antihemmorrhoidal	6	0.13	7.74 ± 5.68	46.43	0.04	0.30	9	0.17	14.00 ± 0.22	125.96	0.12	0.74
Cathartic drugs / laxative	17	0.36	7.49 ± 8.68	127.28	0.10	0.29	5	0.09	7.22 ± 4.22	36.08	0.04	0.38
Antidiarrhoea & ulcerative colitis	34	0.72	8.18 ± 9.83	278.21	0.23	0.32	15	0.28	1.77 ± 2.45	26.56	0.03	0.09
Antispasmodics & anticholinergic	22	0.47	3.28 ± 4.00	72.19	0.06	0.13	19	0.35	3.34 ± 4.20	63.50	0.06	0.18
Constipation, digestants, liver & bile preparations	41	0.87	1.04 ± 1.12	42.78	0.04	0.04	25	0.46	1.82 ± 2.13	45.43	0.04	0.10
Mouthwash & throat preparations	7	0.15	0.80 ± 0.49	5.62	0.00	0.03	26	0.48	1.25 ± 0.26	32.62	0.03	0.07
Electrolyte and acid-base disturbances (parenteral)	80	1.70	14.82 ± 12.99	1185.39	0.97	0.57	4	0.07	4.83 ± 4.42	19.31	0.02	0.25
Vitamin and mineral	679	14.40	1.15 ± 1.73	782.69	0.64	0.04	656	12.08	2.10 ± 4.26	1379.77	1.34	0.11
Feeding and nutritional supplements (oral)	7	0.15	4.06 ± 6.52	28.44	0.02	0.16						
Feeding and nutritional supplements (parenteral)	10	0.21	8.12 ± 3.54	81.21	0.07	0.31	1	0.02	10.25 ± 0	10.25	0.01	0.54
Other gastrolytes	3	0.06	57.60 ± 62.35	172.80	0.14	2.23						
Anesthetics (local)	4	0.08	14.90 ± 0	59.62	0.05	0.58	9	0.17	14.90 ± 0	134.14	0.13	0.79
Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	802	17.01	34.78 ± 151.18	27895.35	22.92	1.35	1465	26.97	12.42 ± 35.14	18197.17	17.67	0.66
Analgesics (opioids) / narcotic analgesics	66	1.40	10.03 ± 10.85	661.94	0.54	0.39	4	0.07	2.02 ± 2.38	8.06	0.01	0.11
Antimalaria							1	0.02	1.68 ± 0	1.68	0.00	0.09
Sera & immunologicals							1	0.02	**324.67 ± 0**	324.37	0.32	**17.11**
Vaccines	10	0.21	3.71 ± 6.17	37.14	0.03	0.14	30	0.55	55.12 ± 122.47	1653.67	1.61	2.91

Appendix D.12: Average medicine cost per consultation according to pharmacological groups (continue)

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Anti-asthmatic & mucolytics	93	1.97	10.30 ± 19.83	957.45	0.79	0.40	128	2.36	14.05 ± 12.40	1798.70	1.75	0.74
Cough mixture	22	0.47	1.70 ± 0.72	37.49	0.03	0.07	48	0.88	2.27 ± 0.55	109.11	0.11	0.12
Antituberculosis	136	2.88	20.73 ± 20.64	2819.49	2.32	0.80	34	0.63	38.25 ± 12.09	1300.51	1.26	2.02
Decongestants (cold/flu)	1	0.02	2.35 ± 0	2.35	0.00	0.09	9	0.17	2.40 ± 0.15	21.62	0.02	0.13
Antihistamines for systemic use	31	0.66	1.51 ± 0.82	46.77	0.04	0.06	92	1.69	2.04 ± 0.78	187.56	0.18	0.11
Totaal	**4715**	**100**		**121711.98**	**100**		**5431**	**100**		**102965.17**	**100**	

* Percentage was calculated for pharmacological groups according to the total number of medicine items dispenced to inpatients and outpatients respectively

** Percentage was calculated for pharmacological groups according to the total cost for inpatients and outpatients respectively

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Appendix D.13: Average medicine cost per consultation according to therapeutic codes

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Amoxycillin Caps 250mg 15s	13	0.21	1.36 ± 0.58	17.67	0.01	0.07	18	0.33	2.38 ± 2.87	42.81	0.04	0.13
Amoxycillin Caps 500mg 15s	70	1.15	2.82 ± 1.52	197.09	0.16	0.14	101	1.86	3.48 ± 0.37	351.07	0.34	0.18
Amoxycillin Susp 125mg/5ml 100ml	38	0.62	2.22 ± 0.87	84.17	0.07	0.11	26	0.48	2.17 ± 0.51	70.58	0.07	0.14
Amoxycillin Susp 250mg/5ml 100ml	5	0.08	3.83 ± 0	19.16	0.02	0.19	3	0.06	3.83 ± 0	11.50	0.01	0.20
Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	32	0.53	**105.29 ± 69.77**	3369.22	2.77	**5.27**						
Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	10	0.16	12.19 ± 0	121.90	0.10	0.61	10	0.18	11.23 ± 3.03	112.32	0.11	0.59
Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	87	1.43	18.27 ± 3.36	1589.22	1.31	0.91	66	1.22	17.20 ± 4.21	1135.30	1.10	0.91
Ampicillin Inj 250mg	78	1.28	13.12 ± 12.68	1023.11	0.84	0.66						
Ampicillin Inj 500mg	132	2.17	**135.53 ± 99.94**	17889.42	14.70	**6.79**	2	0.04	16.32 ± 0	32.64	0.03	0.86
Benzathine Penicillin G Inj. 2.4Mu Vials	4	0.07	25.84 ± 27.71	103.36	0.08	1.29	6	0.11	11.98 ± 0	71.90	0.07	0.63
Benzylpenicillin G Inj 1Mu 50s	3	0.05	22.96 ± 18.58	68.88	0.06	1.15						
Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	4	0.07	**218.76 ± 77.21**	875.05	0.72	**10.96**	6	0.11	**180.16 ± 84.58**	1080.95	1.05	**9.50**
Ciprofloxacin Tabs 500mg 10s	28	0.46	1.15 ± 0.93	32.22	0.03	0.06	46	0.85	1.12 ± 1.23	51.74	0.05	0.06
Clindamycin Caps 150mg 100s							2	0.04	22.94 ± 15.36	45.88	0.04	1.21
Cloxacillin IV Inj 500mg	19	0.31	77.58 ± 43.94	1473.96	1.21	3.89						
Co-Trimoxazole for IV Infus 480mg 5ml	6	0.10	6.93 ± 4.35	41.58	0.03	0.35						
Flucloxacillin Caps 250mg 20s	32	0.53	13.22 ± 6.06	423.04	0.35	0.66	24	0.44	16.57 ± 7.02	397.70	0.39	0.87
Flucloxacillin Susp 125mg 100ml	1	0.02	9.48 ± 0	9.48	0.01	0.47						
Fluconazole Caps 50mg 14s	3	0.05	99.51 ± 55.24	298.55	0.25	**4.98**						
Fluconazole Caps 200mg 28s	11	0.18	15.05 ± 14.08	165.53	0.14	0.75	1	0.02	86.75 ± 0	86.75	0.08	**4.58**

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Fluconazole Inj for IV Infus 2mg/ml 100ml	8	0.13	**187.11 ± 189.55**	1496.88	1.23	**9.37**						
Gentamicin Inj 40mg/ml 1ml	74	1.21	3.59 ± 3.15	265.77	0.22	0.18	2	0.04	4.73 ± 5.20	9.45	0.01	0.25
Gentamicin Inj 80mg/2ml 2ml	116	1.90	18.54 ± 11.02	2150.59	1.77	0.93	2	0.04	2.13 ± 0	4.26	0.00	0.11
Ketoconazole Tabs 200mg 30s	20	0.33	40.21 ± 37.20	804.29	0.66	2.01	15	0.28	58.89 ± 29.79	883.38	0.86	**3.11**
Nalidixic Acid Susp 250mg/ml 100ml	1	0.02	27.33 ± 0	27.33	0.02	1.37						
Nalidixic Acid Tabs 500mg 100s	3	0.05	25.95 ± 5.29	77.85	0.06	1.30	4	0.07	40.10 ± 11.47	160.39	0.16	2.12
Nitrofurantoin Caps 100mg 50's	4	0.07	21.04 ± 10.47	84.15	0.07	1.05	1	0.02	16.50 ± 0	16.50	0.02	0.87
Phenoxymethyl Penicillin Susp 250mg/5ml 100ml							1	0.02	3.17 ± 0	3.17	0.00	0.17
Phenoxymethyl Penicillin Tabs 250mg 20s	4	0.07	5.68 ± 3.42	22.70	0.02	0.28	6	0.11	4.73 ± 3.02	28.38	0.03	0.25
Phenoxymethyl Penicillin Tabs 250mg 100s							1	0.02	10.04 ± 0	10.04	0.01	0.53
Nitrofurantoin Caps 100mg 30s	1	0.02	3.27 ± 0	3.27	0.00	0.16	5	0.09	28.03 ± 12.28	140.16	0.14	1.48
Fluconazole Susp 50mg/5ml 35ml	1	0.02	0.00 ± 0	0.00	0.00	0.00						
Cefazolin Inj 500mg	9	0.15	**477.43 ± 372.16**	4296.89	3.53	**23.91**	2	0.04	49.58 ± 23.37	99.16	0.10	2.62
Cefotaxime Inj 500mg	1	0.02	51.21 ± 0	51.21	0.04	2.56						
Cefotaxime Inj 1g/15ml	2	0.03	13.62 ± 1.01	27.23	0.02	0.68	1	0.02	7.17 ± 0	7.17	0.01	0.38
Ceftriaxone IM Inj 250mg	20	0.33	**468.30 ± 319.38**	9366.00	7.70	**23.45**	2	0.04	84.00 ± 0	168.00	0.16	**4.43**
Ceftriaxone Inj 1g	44	0.72	47.37 ± 41.49	2084.30	1.71	2.37	10	0.18	10.17 ± 2.92	101.67	0.10	0.54
Co-trimoxazole Tabs 480mg 20s	109	1.79	1.61 ± 1.58	175.24	0.14	0.08	41	0.75	2.74 ± 1.17	112.17	0.11	0.14
Co-trimoxazole Tabs 400mg 1000s							1	0.02	0.03 ± 0	0.03	0.00	0.00
Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	62	1.02	4.90 ± 1.64	303.97	0.25	0.25	178	3.28	4.68 ± 0.92	833.68	0.81	0.25
Co-trimoxazole Susp 200/40mg/5ml 50ml	95	1.56	1.75 ± 3.48	166.09	0.14	0.09	22	0.41	5.04 ± 5.98	110.79	0.11	0.27

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Co-trimoxazole Syr 200/40mg/5ml 100ml	8	0.13	3.06 ± 1.80	24.48	0.02	0.15	10	0.18	4.03 ± 1.44	40.26	0.04	0.21
Doxycycline Caps 100mg 14s	20	0.33	1.36 ± 0.66	27.20	0.02	0.07	69	1.27	24.21 ± 186.87	1670.34	1.62	1.28
Erythromycin Susp 125mg/5ml 100ml	4	0.07	6.30 ± 2.22	25.19	0.02	0.32	1	0.02	7.41 ± 0	7.41	0.01	0.39
Erythromycin IV Inj 1g	1	0.02	**484.73 ± 0**	484.73	0.40	**24.28**						
Erythromycin Tabs 250mg 20s	17	0.28	10.48 ± 5.74	178.08	0.15	0.52	24	0.44	18.55 ± 7.42	445.21	0.43	0.98
Erythromycin Tabs 250mg 100s							1	0.02	33.60 ± 0	33.60	0.03	1.77
Erythromycin Tabs 250mg 56s							1	0.02	4.53 ± 0	4.53	0.00	0.24
Metronidazole IV Inj 500mg/ml 100ml	107	1.76	0.29 ± 0.19	30.91	0.03	0.01	11	0.20	29.58 ± 19.40	325.35	0.32	1.56
Metronidazole Tabs 200mg 21s	110	1.80	1.44 ± 0.99	158.73	0.13	0.07	87	1.60	1.60 ± 0.58	138.88	0.13	0.08
Metronidazole Tabs 200mg 60s							1	0.02	40.11 ± 0	40.11	0.04	2.12
Metronidazole Susp 200mg/5ml 50ml							6	0.11	6.62 ± 0	39.74	0.04	0.35
Metronidazole Susp 200mg/5ml 100ml							1	0.02	1.83 ± 0	1.83	0.00	0.10
Spectinomycin Inj 400mg/ml 2g 5ml	1	0.02	27.63 ± 0	27.63	0.02	1.38						
Metronidazole Tabs 200mg 10s							1	0.02	0.53 ± 0	0.53	0.00	0.03
Acyclovir Cream 5% 2g	1	0.02	3.09 ± 0	3.09	0.00	0.15	5	0.09	3.09 ± 0	15.44	0.01	0.16
Efavirenz Caps 50mg 30s	1	0.02	2.61 ± 0	2.61	0.00	0.13	11	0.20	**524.59 ± 185.56**	5770.54	5.60	**27.67**
Efavirenz Caps 200mg 90s	12	0.20	76.94 ± 50.95	923.34	0.76	**3.85**	18	0.33	87.08 ± 51.64	1567.49	1.52	4.59
Efavirenz Caps 600mg 30s	12	0.20	**193.05 ± 98.80**	2316.62	1.90	**9.67**	97	1.79	**261.39 ± 59.93**	25354.40	24.62	**13.79**
Lamivudine Oral Sol 10mg/ml 240ml	15	0.25	27.60 ± 16.41	413.96	0.34	1.38	9	0.17	44.10 ± 20.75	396.91	0.39	2.33
Lamivudine Tabs 150mg 60s	56	0.92	28.77 ± 18.33	1611.33	1.32	1.44	155	2.85	41.90 ± 8.17	6494.33	6.31	2.21
Lopinavir Syr 60ml	6	0.10	**318.91 ± 192.48**	1913.45	1.57	**15.97**						
Nevirapine Tabs 200mg 60s	33	0.54	28.65 ± 16.74	945.53	0.78	1.43	53	0.98	38.03 ± 14.89	2015.53	1.96	2.01
Stavudine Caps 15mg 60s	2	0.03	19.25 ± 0	38.50	0.03	0.96						
Stavudine Caps 20mg 60s	12	0.20	17.49 ± 8.77	209.88	0.17	0.88	8	0.15	16.67 ± 5.49	133.38	0.13	0.88
Stavudine D4t Caps 30mg 60s	26	0.43	13.85 ± 7.65	360.07	0.30	0.69	61	1.12	18.70 ± 2.70	1140.75	1.11	0.99
Stavudine D4t Caps 40mg 60s	17	0.28	20.11 ± 4.46	341.89	0.28	1.01	98	1.80	21.74 ± 3.87	2130.28	2.07	1.15

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Stavudine D4t Sol 200ml							4	0.07	**170.47 ± 60.17**	681.87	0.66	**8.99**
Zidovudine Caps 300mg 60s	10	0.16	21.31 ± 28.70	213.09	0.18	1.07	1	0.02	7.54 ± 0	7.54	0.01	0.40
Amphotericin B Lozenges 10mg 20s	1	0.02	1.86 ± 0	1.86	0.00	0.09						
Griseofulvin Tabs 125mg 100s							1	0.02	11.99 ± 0	11.99	0.01	0.63
Nystatin Oral Susp 100 000Iu 20ml	16	0.26	4.43 ± 5.46	70.84	0.06	0.22	5	0.09	3.99 ± 0	19.96	0.02	0.21
Methotrexate Tabs 2.5mg 100s							12	0.22	9.07 ± 4.44	108.80	0.11	0.48
Glyceryl Trinitrate SL Tabs 0.5mg 50s	9	0.15	1.43 ± 1.29	12.87	0.01	0.07	9	0.17	5.06 ± 2.99	45.52	0.04	0.27
Amlodipine Besylate Tabs 5mg 30s	12	0.20	5.19 ± 5.48	62.34	0.05	0.26						
Atenolol Tabs 50mg 28s	38	0.62	1.01 ± 0.90	38.51	0.03	0.05	21	0.39	2.02 ± 0.23	42.48	0.04	0.11
Atenolol Tabs 100mg 28s	3	0.05	2.15 ± 1.68	6.46	0.01	0.11	4	0.07	3.12 ± 0	12.49	0.01	0.16
Enalapril Tabs 5mg 28s	16	0.26	**145.68 ± 170.93**	2330.80	1.92	**7.30**	3	0.06	**459.00 ± 0**	1377.00	1.34	**24.21**
Enalapril Tabs 10mg 28s	20	0.33	1.84 ± 1.28	37.10	0.03	0.09	52	0.96	2.61 ± 0.79	135.55	0.13	0.14
Enalapril Tabs 20mg 28s	9	0.15	2.19 ± 1.68	19.69	0.02	0.11	14	0.26	3.60 ± 0	50.46	0.05	0.19
Furosemide Tabs 40mg 28s	38	0.62	23.95 ± 27.80	910.09	0.75	1.20	37	0.68	36.46 ± 21.74	1349.15	1.31	1.92
Furosemide Tabs 40mg 56s	4	0.07	2.89 ± 0	11.54	0.01	0.14	2	0.04	30.22 ± 34.57	60.44	0.06	1.59
Furosemide Tabs 40mg 84s	1	0.02	4.08 ± 0	4.08	0.00	0.20						
Furosemide Tabs 40mg 250s							1	0.02	3.60 ± 0	0.60	0.00	0.03
Furosemide Inj 10mg/ml 2ml	31	0.51	7.32 ± 7.47	227.07	0.19	0.37						
Furosemide Inj 10mg/ml 25ml	2	0.03	21.22 ± 15.00	42.44	0.03	1.06	1	0.02	0.93 ± 0	0.93	0.00	0.05
Hydralazine Tabs 25mg 500s							1	0.02	6.72 ± 0	6.72	0.01	0.35
Hydrochlorothiazide Tabs 25mg 14s	19	0.31	7.46 ± 3.15	141.65	0.12	0.37	9	0.17	8.73 ± 1.54	78.67	0.08	0.46
Hydrochlorothiazide Tabs 25mg 28s	71	1.16	0.52 ± 0.41	36.82	0.03	0.03	116	2.14	0.98 ± 0.56	113.42	0.11	0.05
Indapamide Tabs 2.5mg 30s	18	0.30	1.05 ± 1.57	18.83	0.02	0.05	14	0.26	4.03 ± 1.22	56.35	0.05	0.21
Mannitol Inj for IV use 20% 50ml	1	0.02	**210.00 ± 0**	210.00	0.17	**10.52**						
Methyldopa Tabs 250mg 56s	1	0.02	0.72 ± 0	0.74	0.00	0.04	1	0.02	20.40 ± 0	20.40	0.02	1.08
Nifedipine Caps 5mg 100s	9	0.15	0.54 ± 0.37	4.89	0.00	0.03	1	0.02	0.16 ± 0	0.16	0.00	0.01

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Nifedipine Tabs SR 30mg 28s	22	0.36	14.31 ± 9.71	314.86	0.26	0.72	35	0.64	22.11 ± 0	773.99	0.75	1.17
Nifedipine Tabs SR 60mg 28s	1	0.02	2.61 ± 0	2.61	0.00	0.13	11	0.20	**524.59 ± 185.56**	5770.54	5.60	**27.67**
Perindopril Tabs 4mg 28s	12	0.20	76.94 ± 50.95	923.34	0.76	**3.85**	18	0.33	87.08 ± 51.64	1567.49	1.52	**4.59**
Prazosin Tabs 1mg 14s	12	0.20	**193.05 ± 98.80**	2316.62	1.90	**9.67**	97	1.79	**261.39 ± 59.93**	25354.40	24.62	**13.79**
Prazosin Tabs 5mg 30s							3	0.06	**165.17 ± 0**	495.50	0.48	**8.71**
Propranolol Tabs 10mg 60s	3	0.05	0.37 ± 0.28	1.10	0.00	0.02	2	0.04	0.83 ± 0.70	1.65	0.00	0.04
Propranolol Tabs 40mg 28s	1	0.02	0.88 ± 0	0.88	0.00	0.04						
Spironolactone Tabs 25mg 240s	15	0.25	5.00 ± 6.71	75.03	0.06	0.25	11	0.20	42.96 ± 27.68	472.51	0.46	2.27
Spironolactone Tabs 25mg 14s	13	0.21	4.70 ± 6.84	61.14	0.05	0.24						
Digoxin Tabs 0.25mg 14s	15	0.25	2.72 ± 2.45	40.92	0.03	0.14	14	0.26	3.85 ± 1.22	53.92	0.05	0.20
Digoxin Tabs 0.25mg 28s	2	0.03	4.07 ± 0	8.14	0.01	0.20	3	0.06	4.04 ± 0	12.21	0.01	0.21
Enoxaparin Prefilled Syr SC 40mg/0.4ml	5	0.08	47.60 ± 34.84	238.00	0.20	2.38						
Balanced Heparin 1250Iu/ml 5ml 5s	1	0.02	**2764.80 ± 0**	2764.80	2.27	**138.47**						
Heparin IV Inj 1 000Iu/ml 5ml	1	0.02	20.66 ± 0	20.66	0.02	1.03						
Heparin IV Inj 5 000Iu/ml 5ml	10	0.16	23.02 ± 14.54	230.23	0.19	1.15						
Streptokinase Inj 1 500 000Iu							1	0.02	1.00 ± 0	1.00	0.00	0.05
Tranexamic Acid Inj 100mg/ml 5ml 5s	16	0.26	**110.08 ± 98.74**	1761.31	1.45	**5.51**	3	0.06	38.29 ± 0	114.87	0.11	2.02
Tranexamic Acid Tabs 500mg 60s	5	0.08	19.24 ± 13.99	96.20	0.08	0.96	6	0.11	70.45 ± 70.24	422.67	0.41	**3.72**
Warfarin Sodium Tabs 5mg 28s	12	0.20	11.12 ± 6.57	133.42	0.11	0.56	9	0.17	19.02 ± 4.10	171.22	0.17	1.00
Warfarin Sodium Tabs 5mg 42s							7	0.13	23.90 ± 1.47	167.33	0.16	1.26
Warfarin Sodium Tabs 5mg 49s							1	0.02	27.24 ± 0	27.24	0.03	1.44
Warfarin Sodium Tabs 5mg 14s	1	0.02	7.78 ± 0	7.78	0.01	0.39	2	0.04	7.78 ± 0	15.57	0.02	0.41
Ferrous Sulphate Co Tabs eq 65mg Fe 28s	138	2.26	0.82 ± 0.77	112.56	0.09	0.04	30	0.55	1.56 ± 0.55	46.69	0.05	0.08
Ferrous Sulphate Co Tabs eq 65mg Fe 84s	18	0.30	4.17 ± 0	75.06	0.06	0.21	10	0.18	4.17 ± 0	41.70	0.04	0.22
Ferrous Lactate Drops eq 25mg Fe/ml 10ml							1	0.02	57.48 ± 0	57.48	0.06	**3.03**

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	20	0.33	6.80 ± 5.93	136.01	0.11	0.34						
Folic Acid Tabs 5mg 28s	220	3.61	0.46 ± 0.43	100.97	0.08	0.02	42	0.77	0.95 ± 0.15	39.88	0.04	0.05
Folic Acid Tabs 5mg 1000s							1	0.02	**247.34 ± 0**	247.34	0.24	**13.05**
Phytomenadione IM Inj 10mg/ml 1ml	3	0.05	38.97 ± 24.34	116.92	0.10	1.95	1	0.02	11.69 ± 0	11.69	0.01	0.62
Cholestyramine Powder 4g 50s	1	0.02	15.15 ± 0	15.15	0.01	0.76						
Simvastatin Tabs 10mg 28s							3	0.06	6.62 ± 0	19.86	0.02	0.35
Simvastatin Tabs 20mg 28s	3	0.05	3.89 ± 4.99	11.66	0.01	0.19	2	0.04	9.60 ± 0	19.19	0.02	0.51
Clotrimazole Cream 1% 20g	5	0.08	2.54 ± 0.02	12.70	0.01	0.13	14	0.26	3.10 ± 1.09	43.35	0.04	0.16
Gentian Violet Sol 0.5% 20ml							1	0.02	1.12 ± 0	1.12	0.00	0.06
Malic Acid, Benz Acid & Salicyl Acid Cream 50g	1	0.02	17.49 ± 0	17.46	0.01	0.87						
Miconazole Nitrate cream 2% 40g							1	0.02	39.93 ± 0	39.93	0.04	2.11
Miconazole Nitrate Oral Gel 2% 30g	8	0.13	44.50 ± 1.40	355.98	0.29	2.23	1	0.02	45.24 ± 0	45.24	0.04	2.39
Mupirocin Topical Oint 2% 15g	2	0.03	16.53 ± 0	33.06	0.03	0.83	2	0.04	16.53 ± 0	33.06	0.03	0.87
Nystatin Vaginal Cream 100 000Iu 60g							1	0.02	50.21 ± 0	50.21	0.05	2.65
Nystatin Vaginal Tabs 15's	1	0.02	3.06 ± 0	3.06	0.00	0.15	2	0.04	24.61 ± 30.86	49.22	0.05	1.30
Selenium Sulphide Shampoo 2.5% 50ml							2	0.04	19.30 ± 0	38.60	0.04	1.02
Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	1	0.02	5.31 ± 0	5.31	0.00	0.27	1	0.02	5.31 ± 0	5.31	0.01	0.28
Mercurochrome Sol 1% 20ml	1	0.02	1.18 ± 0	1.18	0.00	0.06	1	0.02	1.18 ± 0	1.18	0.00	0.06
Podophyllum Resin 25g	1	0.02	42.66 ± 0	42.66	0.04	2.14	1	0.02	42.66 ± 0	42.66	0.04	2.25
Podophyllum Resin Oint 10g	1	0.02	21.05 ± 0	21.05	0.02	1.05	12	0.22	26.32 ± 9.52	315.80	0.31	1.39
Silver Sulphadiazine Cream 50g							1	0.02	8.25 ± 0	8.25	0.01	0.44
Silver Sulphadiazine Cream 500g	1	0.02	**120.00 ± 0**	120.00	0.10	**6.01**						
Calamine Lotion 100ml	1	0.02	1.22 ± 0	1.22	0.00	0.06	3	0.06	1.22 ± 0	3.67	0.00	0.06
Hydrocortisone Cream 1% 20g							12	0.22	3.45 ± 0	41.36	0.04	0.18

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Indomethacin Caps 25mg 28s	12	0.20	1.08 ± 0.70	12.90	0.01	0.05	35	0.64	1.52 ± 0.64	53.25	0.05	0.08
Indomethacin Supps 100mg 10s	5	0.08	3.65 ± 4.44	18.24	0.01	0.18	3	0.06	23.18 ± 19.09	69.54	0.07	1.22
Sulfasalazine Tabs 500mg 100s							1	0.02	25.46 ± 0	25.46	0.02	1.34
Benzoyl Peroxide Cream 5% 40g	5	0.08	1.07 ± 0.46	5.34	0.00	0.05	1	0.02	18.23 ± 0	18.23	0.02	0.96
Benzyl Benzoate Emuls 100ml	3	0.05	1.02 ± 0	3.05	0.00	0.05	8	0.15	1.39 ± 0.58	11.10	0.01	0.07
Monosulfiram Soap 5% 75g	2	0.03	3.12 ± 0	6.23	0.01	0.16	2	0.04	6.46 ± 0	12.91	0.01	0.34
Aqueous Cream 100g							10	0.18	1.32 ± 0.69	13.20	0.01	0.07
Aqueous Cream 500g												
Emulsifying Oint 500g	1	0.02	10.79 ± 0	10.79	0.01	0.54						
Lubricating Jelly Sachet 2.5ml	1	0.02	0.18 ± 0	0.18	0.00	0.01						
Zinc & Castor Oil Oint 25g	3	0.05	0.83 ± 0	2.50	0.00	0.04	5	0.09	0.83 ± 0	4.16	0.00	0.04
Zinc Sulphate Grade 500g							1	0.02	**249.00 ± 0**	249.00	0.24	**13.13**
Povidone Iodine Oint 25g	2	0.03	1.72 ± 0	3.45	0.00	0.09	1	0.02	1.72 ± 0	1.72	0.00	0.09
Povidone Iodine Sol 1000ml	2	0.03	16.96 ± 0	33.93	0.03	0.85	1	0.02	16.96 ± 0	16.96	0.02	0.89
Acyclovir Tabs 200mg 25's	4	0.07	7.07 ± 7.06	28.29	0.02	0.35	11	0.20	19.45 ± 11.28	213.96	0.21	1.03
Chloramphenicol Eye Drops 0.5% 10ml							3	0.06	29.82 ± 0	89.45	0.09	1.57
Chloramphenicol Eye Oint 1% 3.5g	7	0.11	1.92 ± 0.63	13.44	0.01	0.10	8	0.15	1.68 ± 0	13.44	0.01	0.09
Amethocaine Cream 1% 25g							1	0.02	60.00 ± 0	60.00	0.06	**3.16**
Antazoline Tetrahydrozoline Eye Drops 10ml	1	0.02	4.73 ± 0	4.73	0.00	0.24	15	0.28	4.73 ± 0	70.92	0.07	0.25
Acetic Acid Ear Drops 1% in normal saline 10ml	1	0.02	0.06 ± 0	0.06	0.00	0.00	8	0.15	2.75 ± 0	22.00	0.02	0.15
Acetic Acid Ear Drops 2% in alcohol							2	0.04	4.16 ± 3.20	8.33	0.01	0.22
Neomycin Polymixin Hydrocortisone Ear Drops 10ml							1	0.02	32.63 ± 0	32.63	0.03	1.72
Oxymetazoline Nose Drops 0.025% 10ml							1	0.02	7.37 ± 0	7.37	0.01	0.39

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Sodium Bicarbonate Powder 500g	7	0.11	0.68 ± 0.27	4.76	0.00	0.03						
Sodium Chloride Nose Drops 0.9% 10ml	1	0.02	0.02 ± 0	0.02	0.00	0.00	12	0.22	2.75 ± 0	33.00	0.03	0.15
Arachis Oil, Paradichlorbenzene chlorbut 10ml	2	0.03	17.00 ± 0	34.00	0.03	0.85	4	0.07	17.00 ± 0	68.00	0.07	0.90
Betamethasone In Uea Cream 10% 500g							1	0.02	11.73 ± 0	11.73	0.01	0.62
Betamethasone Valerate Cream 0.1% 15g	2	0.03	2.85 ± 1.34	5.70	0.00	0.14	10	0.18	2.09 ± 0.60	20.90	0.02	0.11
Condoms 10s	1	0.02	0 ± 0	0.00	0.00	0.00						
Medroxyprogesterone Tabs 5mg 30s	1	0.02	**113.92 ± 0**	113.92	0.09	**5.71**	2	0.04	56.96 ± 0	113.92	0.11	**3.00**
Norgestrel Oestradiol Tabs 28s	2	0.03	22.27 ± 3.52	44.54	0.04	1.12	1	0.02	19.37 ± 0	19.37	0.02	1.02
Oestrogens Conj Tabs 0.3mg 28s	1	0.02	14.66 ± 0	14.66	0.01	0.73						
Oestrogens Conj Tabs 0.625mg 28s	1	0.02	12.40 ± 0	12.40	0.01	0.62	9	0.17	12.40 ± 0	111.61	0.11	0.65
Oestrogens Conj Vaginal Cream 42.5g							1	0.02	53.00 ± 0	53.00	0.05	2.80
Insulin Actraphane Hm 100Iu/ml 10ml	17	0.28	51.21 ± 31.82	870.51	0.72	2.56	16	0.29	82.56 ± 41.30	1320.95	1.28	**4.35**
Insulin Actraphane Hm 100Iu/ml 3ml Penset	6	0.10	58.53 ± 24.15	351.17	0.29	2.93						
Insulin Actrapid Hm 100Iu/ml 10ml	6	0.10	0.75 ± 0.82	4.51	0.00	0.04	2	0.04	0.55 ± 0.26	1.10	0.00	0.03
Insulin Protaphane Hm 100Iu/ml 3ml Penset							2	0.04	41.31 ± 0	82.63	0.08	2.18
Insulin Needles 1s	14	0.23	5.13 ± 4.75	71.80	0.06	0.26	13	0.24	4.22 ± 2.03	54.81	0.05	0.22
Gliclazide Tabs 80mg 56s	14	0.23	7.39 ± 2.59	103.43	0.08	0.37	14	0.26	8.69 ± 3.12	121.68	0.12	0.46
Gliclazide Tabs 80mg 28s	21	0.34	1.18 ± 1.26	24.77	0.02	0.06	7	0.13	3.28 ± 0	22.93	0.02	0.17
Metformin Tabs 850mg 56s	44	0.72	3.46 ± 3.51	152.22	0.13	0.17	15	0.28	5.51 ± 2.37	82.61	0.08	0.29

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Metformin Tabs 850mg 84s	14	0.23	10.27 ± 2.73	143.77	0.12	0.51	26	0.48	10.72 ± 1.45	278.63	0.27	0.57
Glucagon Inj 1mg 1ml	3	0.05	**1097.74 ± 914.63**	3293.22	2.71	**54.98**						
Oxytocin 5Iu/ml 5s	1	0.02	9.97 ± 0	9.97	0.01	0.50						
Oxytocin Inj 10Iu 1ml 5's	4	0.07	9.96 ± 2.85	39.85	0.03	0.50						
Thyroxine Sodium Tabs 50µg 100s	1	0.02	0.37 ± 0	0.37	0.00	0.02						
Thyroxine Sodium Tabs 100µg 28s	9	0.15	5.76 ± 2.62	51.87	0.04	0.29						
Dexamethasone IM Inj 4mg/ml 1ml	4	0.07	46.07 ± 41.00	184.28	0.15	2.31	1	0.02	4.10 ± 0	4.10	0.00	0.22
Fludrocortisone Acetate Tabs 0.1mg 100s							1	0.02	17.83 ± 0	17.83	0.02	0.94
Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	23	0.38	88.29 ± 71.04	2030.57	1.67	**4.42**	6	0.11	32.68 ± 17.53	196.10	0.19	1.72
Methylprednisolone Inj 40mg/ml 1ml	1	0.02	22.25 ± 0	22.25	0.02	1.11	3	0.06	14.83 ± 0	44.50	0.04	0.78
Methylprednisolone Inj 40mg/ml 2ml							1	0.02	8.17 ± 0	8.17	0.01	0.43
Prednisolone Syr 15mg/5ml 50ml	10	0.16	12.25 ± 8.16	122.47	0.10	0.61	2	0.04	19.83 ± 0	39.67	0.04	1.05
Prednisone Tabs 5mg 28s	92	1.51	2.25 ± 2.70	206.55	0.17	0.11	97	1.79	3.11 ± 2.24	302.08	0.29	0.16
Prednisone Tabs 5mg 100s	1	0.02	53.25 ± 0	53.25	0.04	2.67	4	0.07	60.02 ± 5.94	240.09	0.23	**3.17**
Betamethasone Inj 4mg/ml 1ml							1	0.02	2.62 ± 0	2.62	0.00	0.14
Carbamazepine Susp 100mg/5ml 250ml							1	0.02	67.89 ± 0	67.89	0.07	**3.58**
Carbamazepine CR Tabs 200mg 30s	35	0.57	11.96 ± 13.12	418.73	0.34	0.60	63	1.16	14.98 ± 8.73	943.81	0.92	0.79
Carbamazepine CR Tabs 400mg 30s	9	0.15	24.59 ± 16.86	221.28	0.18	1.23	64	1.18	34.31 ± 15.02	2195.98	2.13	1.81
Clonazepam Inj 1mg/ml 1ml	1	0.02	6.09 ± 0	6.09	0.01	0.30						
Lamotrigine Tabs 25mg 60s	1	0.02	0.50 ± 0	0.50	0.00	0.03	3	0.06	30.00 ± 0	90.00	0.09	1.58
Lorazepam Inj 4mg/ml 1ml	15	0.25	33.50 ± 29.85	502.47	0.41	1.68						
Lorazepam Tabs 1mg 100s	1	0.02	2.18 ± 0	2.18	0.00	0.11	3	0.06	6.47 ± 5.57	19.41	0.02	0.34

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Lorazepam Tabs 2.5mg 100s							1	0.02	6.02 ± 0	6.01	0.01	0.32
Phenobarbitone Tabs 30mg 28s	12	0.20	0.50 ± 0.48	5.94	0.00	0.02	4	0.07	2.57 ± 1.03	10.27	0.01	0.14
Phenobarbitone Tabs 30mg 56s	5	0.08	2.96 ± 0.74	14.82	0.01	0.15	20	0.37	3.13 ± 1.30	62.59	0.06	0.17
Phenobarbitone Vit Nicot Syrup 100ml	2	0.03	40.98 ± 28.98	81.96	0.07	2.05	1	0.02	20.49 ± 0	20.49	0.02	1.08
Phenytoin Caps 100mg 84s	25	0.41	18.74 ± 12.04	468.52	0.38	0.94	5	0.09	26.04 ± 0.03	130.18	0.13	1.37
Phenytoin Inj 50mg/ml 5ml	4	0.07	**110.54 ± 70.03**	442.15	0.36	**5.54**						
Sodium Valproate Liqiud Sugar Free 200mg 300ml	3	0.05	85.35 ± 0	256.05	0.21	**4.27**	1	0.02	85.35 ± 0	85.35	0.08	**4.50**
Sodium Valproate Tabs 200mg 28s							5	0.09	35.26 ± 8.76	176.29	0.17	1.86
Sodium Valproate Tabs Cr 300mg 84s							1	0.02	84.18 ± 0	84.18	0.08	**4.44**
Valproic Acid Caps 150mg 56s							2	0.04	39.16 ± 0	78.32	0.08	2.07
Valproic Acid Caps 500mg 100s							2	0.04	41.75 ± 0	83.51	0.08	2.20
Lamotrigine Tabs 25mg 28s							4	0.07	14.00 ± 0	56.00	0.05	0.74
Bromocriptine Mesylate Tabs 2.5mg 30s	3	0.05	9.18 ± 2.28	27.53	0.02	0.46	2	0.04	69.00 ± 0	138.00	0.13	**3.64**
Biperidin Inj 5mg/ml 5ml	1	0.02	12.80 ± 0	12.80	0.01	0.64						
Carbidopa 25mg & Levodopa 250mg 100s	3	0.05	39.89 ± 50.81	119.68	0.10	2.00						
Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	1	0.02	0.94 ± 0	0.94	0.00	0.05						
Fluphenazine Decanoate Inj 25mg/ml 1ml							2	0.04	8.82 ± 0	17.64	0.02	0.47
Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml							2	0.04	16.61 ± 0	33.23	0.03	0.88
Chlorpromazine Inj 25mg/ml 1ml	1	0.02	0.72 ± 0	0.72	0.00	0.04						
Chlorpromazine Tabs 50mg 500s	4	0.07	50.53 ± 98.34	202.13	0.17	2.53	7	0.13	3.98 ± 1.51	27.88	0.03	0.21

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Chlorpromazine Tabs 100mg 500s							3	0.06	4.99 ± 0	14.98	0.01	0.26
Haloperidol Inj 5mg/ml 1ml	7	0.11	61.92 ± 23.17	433.46	0.36	**3.10**						
Haloperidol Tabs 5mg 14s	40	0.66	0.53 ± 0.70	21.13	0.02	0.03	1	0.02	2.04 ± 0	2.04	0.00	0.11
Haloperidol Tabs 5mg 56s	5	0.08	2.55 ± 0	12.75	0.01	0.13	4	0.07	3.19 ± 1.28	12.75	0.01	0.17
Chlorpromazine Tabs 25mg 28s	5	0.08	1.46 ± 0.74	7.29	0.01	0.07	13	0.24	2.07 ± 0.99	26.87	0.03	0.11
Amitriptyline Tabs 25mg 28s	67	1.10	15.21 ± 14.16	1019.21	0.84	0.76	80	1.47	20.54 ± 5.07	1643.56	1.60	1.08
Fluoxetine Caps 20mg 28s	25	0.41	1.60 ± 1.10	40.03	0.03	0.08	22	0.41	2.52 ± 0	55.44	0.05	0.13
Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	1	0.02	1.50 ± 0	1.50	0.00	0.08						
Imipramine Tabs 25mg 28s							1	0.02	25.80 ± 0	25.80	0.03	1.36
Hydroxyzine Tabs 25mg 100s	1	0.02	0.62 ± 0	0.62	0.00	0.03						
Diazepam Inj 5mg/ml 2ml	14	0.23	1.45 ± 0.82	20.24	0.02	0.07	4	0.07	0.79 ± 0.30	3.15	0.00	0.04
Diazepam Tabs 5mg 500s	2	0.03	0.10 ± 0.09	0.19	0.00	0.00						
Diazepam Tabs 5mg 10s	22	0.36	0.12 ± 0.12	2.65	0.00	0.01	6	0.11	0.24 ± 0.09	1.42	0.00	0.01
Naloxone Inj 0.4mg/ml 1ml							1	0.02	1.40 ± 0	1.40	0.00	0.07
Orphenadrine Tabs 50mg 28s	16	0.26	2.78 ± 2.86	44.51	0.04	0.14	19	0.35	4.93 ± 0	93.58	0.09	0.26
Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	3	0.05	19.80 ± 0	59.40	0.05	0.99	1	0.02	19.80 ± 0	19.80	0.02	1.04
Albendazole Susp 100mg/5ml 20ml	10	0.16	9.17 ± 9.32	91.68	0.08	0.46	2	0.04	7.05 ± 0	14.10	0.01	0.37
Albendazole Tabs 200mg 2s	9	0.15	5.84 ± 0	52.55	0.04	0.29	10	0.18	7.59 ± 3.94	75.91	0.07	0.40
Aluminium Hydroxide Susp 350ml	49	0.80	17.21 ± 11.49	843.24	0.69	0.86	38	0.70	26.67 ± 4.06	1013.61	0.98	1.41
Cimetidine IV Inj 100mg/ml 2ml	19	0.31	9.01 ± 7.26	171.27	0.14	0.45	1	0.02	0.99 ± 0	0.99	0.00	0.05
Cimetidine Tabs 200mg 30s	11	0.18	0.89 ± 0.65	9.89	0.01	0.05	8	0.15	1.44 ± 0.67	11.52	0.01	0.08
Cimetidine Tabs 400mg 60s	20	0.33	3.25 ± 3.42	65.01	0.05	0.16	12	0.22	6.17 ± 3.05	74.03	0.07	0.33
Magnesium Trisillicate Co Mixt 200ml	1	0.02	0.11 ± 0	0.11	0.00	0.01	1	0.02	2.29 ± 0	2.29	0.00	0.12
Misoprostol Tabs 0.2mg 60s	3	0.05	10.78 ± 6.26	32.35	0.03	0.54	15	0.28	12.95 ± 1.03	194.29	0.19	0.68
Ranitidine HCl Tabs 300mg 30s	1	0.02	12.26 ± 0	12.26	0.01	0.61						
Ranitidine Inj 25mg/ml 2ml							1	0.02	12.00 ± 0	12.00	0.01	0.63

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Omeprazole Caps 20mg 30s	5	0.08	22.39 ± 17.06	111.93	0.09	1.12	2	0.04	1.44 ± 0	2.88	0.00	0.08
Cinnarizine Tabs 25mg 100s							1	0.02	2.56 ± 0	2.56	0.00	0.14
Metoclopramide Inj 5mg/ml 2ml	55	0.90	7.52 ± 8.07	413.33	0.34	0.38	8	0.15	2.13 ± 0	17.04	0.02	0.11
Metoclopramide Syr 5mg/5ml 50ml	2	0.03	1.51 ± 1.28	3.01	0.00	0.08	3	0.06	2.41 ± 0	7.23	0.01	0.13
Metoclopramide Tabs 10mg 15s	15	0.25	0.47 ± 0	7.08	0.01	0.02	19	0.35	0.70 ± 0.97	13.22	0.01	0.04
Prochlorperazine Inj 12.5mg/ml 1ml	2	0.03	5.76 ± 2.72	11.53	0.01	0.29						
Metoclopramide Tabs 10mg 10s	25	0.41	1.20 ± 1.67	30.12	0.02	0.06	17	0.31	1.68 ± 0.61	28.55	0.03	0.09
Bismuth Sub Oxi Res Nic Zinc Oint 25g							1	0.02	13.40 ± 0	13.40	0.01	0.71
Bismuth Sub Oxi Res Nic Ainc Supps 10s	6	0.10	7.74 ± 5.68	46.43	0.04	0.39	8	0.15	14.07 ± 0	112.56	0.11	0.74
Bisacodyl Supps 10mg 10s	1	0.02	15.16 ± 0	15.16	0.01	0.76						
Glycerine Supps Adult 12s	1	0.02	23.25 ± 0	23.25	0.02	1.16						
Lactulose Syr 3.35mg/5ml 150ml	8	0.13	8.95 ± 9.98	71.61	0.06	0.45	2	0.04	9.74 ± 0	19.49	0.02	0.51
Magnesium Sulphate Crystals 500g							1	0.02	11.30 ± 0	11.30	0.01	0.60
Senna Tabs 1000s	2	0.03	1.66 ± 1.41	3.31	0.00	0.08						
Senna Tabs 7.5mg 12s	4	0.07	2.42 ± 0.45	9.70	0.01	0.12	2	0.04	2.65 ± 0	5.30	0.01	0.14
Sodium Phosphate Enema Sol 135ml	1	0.02	4.26 ± 0	4.26	0.00	0.21						
Half Darrows & Glucose 5% Sol 200ml	15	0.25	12.08 ± 10.80	181.13	0.15	0.60	1	0.02	10.50 ± 0	10.50	0.01	0.55
Half Darrows & Glucose 5% Sol 500ml	5	0.08	17.89 ± 3.24	89.47	0.07	0.90						
Loperamide Tabs 2mg 6s	14	0.23	0.54 ± 0.29	7.61	0.01	0.03	13	0.24	1.17 ± 0.43	15.26	0.01	0.06
Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s							1	0.02	0.80 ± 0	0.80	0.00	0.04
Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	11	0.18	2.64 ± 1.60	29.04	0.02	0.13	5	0.09	1.12 ± 0	5.59	0.01	0.06

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Hyoscine-N-Butylbromide Syr 100ml	1	0.02	19.99 ± 0	19.99	0.02	1.00	1	0.02	19.99 ± 0	19.99	0.02	1.05
Hyoscine-N-Butylbromide Tabs 10mg 10s	10	0.16	2.32 ± 1.40	23.15	0.02	0.12	8	0.15	3.12 ± 1.01	24.99	0.02	0.16
Hyoscine-N-Butylbromide Inj 50mg/ml							2	0.04	2.50 ± 1.41	5.00	0.00	0.13
Hyoscine-N-Butylbromide Tabs 10mg 15s							3	0.06	2.64 ± 1.32	7.93	0.01	0.14
Liquid Paraffin 200ml	8	0.13	2.88 ± 1.48	23.02	0.02	0.14	6	0.11	5.16 ± 1.81	30.99	0.03	0.27
Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	33	0.54	0.60 ± 0.19	19.76	0.02	0.03	19	0.35	0.76 ± 0.47	14.44	0.01	0.04
Thymol Glycerine B.P. Mouth wash 100ml							26	0.48	1.25 ± 0.26	32.62	0.03	0.07
Calcium Folinate Tabs 15mg							1	0.02	1.90 ± 0	1.90	0.00	0.10
Electrolyte no 2 Sol 1000ml	2	0.03	24.33 ± 0	48.66	0.04	1.22						
Ringers Lactate 2000ml	1	0.02	10.05 ± 0	10.05	0.01	0.50						
Ringers Lactate Sol 200ml	1	0.02	10.00 ± 0	10.00	0.01	0.50						
Ringers Lactate Sol 1000ml	50	0.82	16.31 ± 14.74	815.50	0.67	0.82						
Sodium Chloride 0.9% for Irrigation 1000ml	1	0.02	1.29 ± 0	1.29	0.00	0.06	1	0.02	0.19 ± 0	0.19	0.00	0.01
Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.02	17.54 ± 0	17.54	0.01	0.88						
Sodium Chloride 0.9% Inj 1000ml	21	0.34	10.04 ± 5.98	210.84	0.17	0.50	2	0.04	8.61 ± 0	17.21	0.02	0.45
Sodium Chloride 0.9% Inj 50ml	1	0.02	1.15 ± 0	1.15	0.00	0.06						
Sodium Chloride 0.9% Inj 200ml	2	0.03	34.62 ± 0	69.24	0.06	1.73						
Water for Inj 10ml	1	0.02	1.11 ± 0	1.11	0.00	0.06						
Calciferol Tabs 50 000Iu 100s							1	0.02	2.41 ± 0	2.41	0.00	0.13
Calcitriol Caps 0.25mg 30s	6	0.10	0.68 ± 0.05	4.08	0.00	0.03						
Calsium Carbonate & Glycine Tabs 420mg 300s	4	0.07	0.82 ± 0.33	3.29	0.00	0.04						

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Calcium Gluconate Tabs 300mg 28s	3	0.05	0.86 ± 0.59	2.57	0.00	0.04	10	0.18	0.72 ± 0.43	7.18	0.01	0.04
Magnesium Chloride Tabs 500-700mg 100s	2	0.03	10.68 ± 8.39	21.36	0.02	0.53						
Potassium Chloride Syr 300mg/5ml 100ml	33	0.54	1.06 ± 0.85	35.00	0.03	0.05						
Potassium Chloride Inj 15% 10ml							1	0.02	14.38 ± 0	14.38	0.01	0.76
Potassium Chloride Slow Tabs 600mg 14s	41	0.67	1.58 ± 1.86	64.69	0.05	0.08	28	0.52	2.97 ± 1.00	83.06	0.08	0.16
Potassium Citrate Mixture 100ml	15	0.25	1.67 ± 0.90	24.99	0.02	0.08	15	0.28	2.67 ± 0.83	39.98	0.04	0.14
Thiamine IV Inj Vit B1 100mg/ml 10ml	4	0.07	2.48 ± 1.86	9.92	0.01	0.12						
Thiamine Tabs 100mg 28s	16	0.26	1.74 ± 1.82	27.81	0.02	0.09	1	0.02	4.33 ± 0	4.33	0.00	0.23
Vitamin A Caps 100 000Iu 250s	21	0.34	0.36 ± 0.20	7.58	0.01	0.02	2	0.04	1.56 ± 1.81	3.13	0.00	0.08
Vitamin A Tabs 50 000Iu 200s	1	0.02	0.10 ± 0	0.10	0.00	0.01						
Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	11	0.18	7.91 ± 0	87.03	0.07	0.40	76	1.40	9.57 ± 9.26	727.11	0.71	0.50
Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	3	0.05	5.48 ± 4.63	16.43	0.01	0.27	1	0.02	7.91 ± 0	7.91	0.01	0.42
Vitamin B Co Inj 10ml (IM)	5	0.08	2.31 ± 1.53	11.55	0.01	0.12	2	0.04	1.20 ± 0	2.39	0.00	0.06
Vitamin B Co Strong Tabs 28s	121	1.99	0.43 ± 0.44	51.58	0.04	0.02	80	1.47	0.84 ± 0.33	67.15	0.07	0.04
Vitamin B Co Strong Tabs 1000s	1	0.02	0.21 ± 0	0.21	0.00	0.01						
Vitamin B Co Syr 100ml	12	0.20	0.53 ± 0.65	6.30	0.01	0.03	1	0.02	1.09 ± 0	1.09	0.00	0.06
Vitamin B6 Tabs 25mg 28s	101	1.66	1.21 ± 1.10	122.16	0.10	0.06	63	1.16	1.99 ± 0	125.43	0.12	0.11
Vitamin C Tabs 100mg 28s	10	0.16	0.46 ± 0.48	4.62	0.00	0.02	20	0.37	0.87 ± 0.30	17.35	0.02	0.05
Vitamin C Tabs 250mg 100s	19	0.31	1.52 ± 0.90	28.80	0.02	0.08	42	0.77	1.51 ± 0.76	63.35	0.06	0.08
Vitamin E Tabs 100mg 50s							1	0.02	0.40 ± 0	0.40	0.00	0.02
Vitamin Multiple Oral drops 25ml	2	0.03	11.81 ± 0	23.61	0.02	0.59						
Vitamin Multiple Syr 100ml	155	2.54	0.80 ± 0.74	124.70	0.10	0.04	58	1.07	1.31 ± 0.541	75.89	0.07	0.07

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Vitamin Multiple Tabs 28s	287	4.71	0.36 ± 0.34	104.33	0.09	0.02	254	4.68	0.54 ± 0.44	137.24	0.13	0.03
Bettaway Children's Own Tabs 60s	1	0.02	3.50 ± 0	3.50	0.00	0.18						
Vi-Daylin Syrup with Minerals 150ml	6	0.10	4.16 ± 7.14	24.94	0.02	0.21						
Dextrose Sol for IV Infus 5% 50ml	2	0.03	7.87 ± 0	15.74	0.01	0.39						
Dextrose Sol for IV Infus 5% 1000ml	6	0.10	7.30 ± 0	43.79	0.04	0.37						
Dextrose Sol for IV Infus 10% 1000ml							1	0.02	10.25 ± 0	10.25	0.01	0.54
Destrose Sol for IV Infus 50% 500ml	1	0.02	17.68 ± 0	17.68	0.01	0.89	9	0.17	14.90 ± 0	134.14	0.13	0.79
Dextrose in Water Inj 50% 20ml	1	0.02	4.00 ± 0	4.00	0.00	0.20						
Sodium Alginate in a Hydro-active base 50g	3	0.05	57.60 ± 62.35	172.80	0.14	2.88						
Lignocaine Gel 2% 20g	4	0.07	14.90 ± 0	59.62	0.05	0.75						
Allopurinol Tabs 300mg 30's	2	0.03	3.31 ± 4.28	6.61	0.01	0.17	2	0.04	9.50 ± 4.48	18.99	0.02	0.50
Aspirin Soluble Tabs 300mg 14s	81	1.33	0.88 ± 0.75	70.97	0.06	0.04	91	1.68	1.59 ± 0.29	144.75	0.14	0.08
Colchicine Tabs 1mg 60s	3	0.05	31.04 ± 32.43	93.13	0.08	1.55	1	0.02	10.72 ± 0	10.72	0.01	0.57
Diclofenac Inj 25mg/ml 3ml	72	1.18	**360.83 ± 371.25**	25979.65	21.35	**18.07**	102	1.88	**115.98 ± 15.95**	11829.90	11.49	**6.12**
Diclofenac Tabs 25mg 42s	16	0.26	5.09 ± 2.43	81.38	0.07	0.25	58	1.07	7.53 ± 4.17	436.70	0.42	0.40
Ibuprofen Susp 100mg/5ml 100ml	11	0.18	3.07 ± 2.59	33.84	0.03	0.15	11	0.20	6.39 ± 0	70.24	0.07	0.34
Ibuprofen Tabs 200mg 15s	241	3.95	1.30 ± 0.64	314.10	0.26	0.07	355	6.54	1.60 ± 0.77	567.25	0.55	0.08
Methyl Salicylate In Vaseline Oint 10% 25g	16	0.26	0.64 ± 0	10.30	0.01	0.03	85	1.57	0.64 ± 0	54.74	0.05	0.03
Paracetamol Codeine Phos Tabs 500mg/8mg 20s	6	0.10	76.02 ± 45.67	456.12	0.37	3.81	32	0.59	**126.78 ± 60.26**	4057.06	3.94	**6.69**
Paracetamol Syr 120mg/5ml 50ml	88	1.44	1.42 ± 0.82	124.71	0.10	0.07	67	1.23	2.33 ± 0.85	156.42	0.15	0.12

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Paracetamol Syr 120mg/5ml 100ml	33	0.54	2.38 ± 0.71	78.50	0.06	0.12	17	0.31	2.86 ± 0.65	48.60	0.05	0.15
Paracetamol Tabs 500mg 10s	475	7.79	0.91 ± 0.60	431.02	0.35	0.05	581	10.70	0.92 ± 0.25	535.02	0.52	0.05
Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	26	0.43	6.87 ± 7.88	178.60	0.15	0.34	26	0.48	5.52 ± 1.21	143.42	0.14	0.29
Tilidine Oral Drops 100mg/1ml 10ml	1	0.02	1.25 ± 0	1.25	0.00	0.06	5	0.09	2.30 ± 2.75	11.51	0.01	0.12
Ibuprofen Tabs 200mg 30s	3	0.05	1.86 ± 0	5.58	0.00	0.09						
Diclofenac Tabs 25mg 28s	18	0.30	1.64 ± 1.42	29.58	0.02	0.08	32	0.59	3.50 ± 2.26	111.86	0.11	0.18
Codeine Phosphate Tabs 30mg 100s	19	0.31	13.71 ± 6.11	260.40	0.21	0.69						
Morphine Sulphate IV Inj 15mg 1ml	5	0.08	1.13 ± 1.01	5.66	0.00	0.06						
Morphine Sulphate Tabs 30mg 60s	1	0.02	10.01 ± 0	10.01	0.01	0.50						
Pethidine IM Inj 50mg/ml 1ml 10s	25	0.41	3.53 ± 3.98	88.20	0.07	0.18	3	0.06	0.83 ± 0.29	2.50	0.00	0.04
Pethidine IM Inj 100mg/2ml 1ml 10s	17	0.28	17.51 ± 15.85	297.67	0.24	0.88	1	0.02	5.56 ± 0	5.56	0.01	0.29
Chloroquine Tabs 150mg 100s							1	0.02	1.68 ± 0	1.68	0.00	0.09
Vaccine Immunoglobulin Human Anti-Rabies 150Iu							1	0.02	**324.37 ± 0**	324.37	0.32	**17.11**
Vaccine Rabies 2.5Iu/dose Single dose							5	0.09	**324.37 ± 0**	1621.84	1.58	**17.11**
Vaccine Tetanus Adosrbed 10 dose 10ml	10	0.16	3.71 ± 6.17	37.14	0.03	0.19	25	0.46	1.27 ± 0.43	31.83	0.03	0.07
Beclomethasone MDI 100mg 200 dose	2	0.03	20.36 ± 28.50	40.71	0.03	1.02	13	0.24	40.51 ± 0.00	526.60	0.51	2.14
Beclomethasone nasal Spray Aqueous 50mg	1	0.02	14.54 ± 0	14.54	0.01	0.73						
Budesonide MDI 200mg 300 dose	1	0.02	49.02 ± 0	49.02	0.04	2.46	1	0.02	49.02 ± 0	49.02	0.05	2.59
Fenoterol Inhaler Complete 100	1	0.02	0.33 ± 0	0.33	0.00	0.02						

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Fenoterol UDV 0.5mg/2ml 60s	8	0.13	22.82 ± 28.20	182.56	0.15	1.14	3	0.06	25.56 ± 28.53	76.68	0.07	1.35
Ipratropium UDV 0.25mg/2ml 2ml 60s	3	0.05	2.66 ± 0.59	7.98	0.01	0.13						
Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s							1	0.02	1.85 ± 0	1.85	0.00	0.10
Salbutamol MDI Complete 100mg 200 dose	9	0.15	17.54 ± 5.26	157.89	0.13	0.88	31	0.57	15.79 ± 0	489.46	0.48	0.83
Salbutamol Syr 2mg/5ml 150ml	17	0.28	4.16 ± 1.77	70.76	0.06	0.21	4	0.07	5.59 ± 0	22.35	0.02	0.29
Salbutamol Tabs 2mg 28s	1	0.02	0.11 ± 0	0.11	0.00	0.01	2	0.04	2.62 ± 0.53	5.24	0.01	0.14
Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	10	0.16	17.43 ± 18.82	174.28	0.14	0.87	7	0.13	17.44 ± 20.58	122.10	0.12	0.92
Salmeterol Accuhaler 0.05mg 60 Dose							2	0.04	15.79 ± 0	31.58	0.03	0.83
Theophylline Syr 200ml	51	0.84	4.02 ± 1.94	204.95	0.17	0.20	47	0.87	5.52 ± 0.79	259.39	0.25	0.29
Theophylline Syr 25mg/5ml 500ml	1	0.02	3.02 ± 0	3.02	0.00	0.15						
Theophylline Anhydrous Tabs 200mg 60s	5	0.08	7.67 ± 6.14	38.36	0.03	0.38	14	0.26	12.49 ± 4.58	174.84	0.17	0.66
Theophylline Anhydrous Tabs 250mg 56s	5	0.08	2.59 ± 2.37	12.96	0.01	0.13	3	0.06	13.20 ± 0	39.60	0.04	0.70
Mist Expectorant Stim Syr Adult 200ml	15	0.25	1.68 ± 0.66	25.19	0.02	0.08	24	0.44	2.41 ± 0	57.84	0.06	0.13
Mist Tussi Infants Mist 100ml	7	0.11	1.76 ± 0.89	12.31	0.01	0.09	24	0.44	2.14 ± 0.76	51.27	0.05	0.11
Ethionamide Tabs 250mg 250s	3	0.05	8.87 ± 3.84	26.62	0.02	0.44						
Pyrazinamide Tabs 500mg 28s	1	0.02	0.12 ± 0	0.12	0.00	0.01						
Rifampicin Caps 150mg 100s	3	0.05	7.47 ± 3.56	22.41	0.02	0.37						
Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	40	0.66	7.03 ± 9.26	281.20	0.23	0.35	2	0.04	6.67 ± 0	13.34	0.01	0.35
Rifampicin 150mg, Isoniazid 75mg Tabs 60s	20	0.33	26.13 ± 18.23	522.56	0.43	1.31	4	0.07	32.78 ± 8.18	131.10	0.13	1.73

Appendix D.13: Average medicine cost per consultation according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	% **		n	%*	Mean & std dev	R	% **	
Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	71	1.16	25.34 ± 22.02	1799.08	1.48	1.27	24	0.44	42.51 ± 9.32	1020.24	0.99	2.24
Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s	1	0.02	83.91 ± 0	83.91	0.07	**4.20**						
Rifampicin 300mg & Isoniazid 150mg Tabs 40s							4	0.07	33.96 ± 0	135.82	0.13	1.79
Streptomycin Inj 1g/3ml	3	0.05	23.31 ± 4.64	69.92	0.06	1.17						
Streptomycin Sulphate Inj 5g/15ml	3	0.05	4.56 ± 2.85	13.68	0.01	0.23						
Pseudoephedrine Sulphate Syr 30mg/5ml 50ml							1	0.02	2.82 ± 0	2.82	0.00	0.15
Pseudoephedrine Tabs 60mg 20s	1	0.02	2.35 ± 0	2.35	0.00	0.12	8	0.15	2.35 ± 0	18.81	0.02	0.12
Chlorpheniramine Mal Tabs 4mg 30s	23	0.38	1.66 ± 0.80	38.21	0.03	0.08	64	1.18	2.14 ± 0.20	137.26	0.13	0.11
Promethazine Inj 25mg/ml 1ml	2	0.03	1.35 ± 1.59	2.70	0.00	0.07						
Promethazine Inj 25mg/ml 2ml							6	0.11	1.67 ± 0.52	10.00	0.01	0.09
Promethazine Tabs 25mg 500s	2	0.03	0.46 ± 0.57	0.92	0.00	0.02	9	0.17	2.41 ± 2.36	21.67	0.02	0.13
Chlorpheniramine Mal Syr 2mg/5ml 50ml	4	0.07	1.24 ± 0.28	4.95	0.00	0.06	13	0.24	1.43 ± 0.08	18.63	0.02	0.08
Total	**6007**	**99**		**123572.21**	**102**		**5446**	**100**		**132171.58**	**128**	

* Percentage was calculated for therapeutic codes according to the total number of medicine items dispenced to inpatients and outpatients respectively

** Percentage was calculated for therapeutic codes according to total cost for inpatients and outpatients respectively

Appendix D.14: Average medicine cost per consultation according to ICD-10 codes

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Diarrhoea, infective / food poisoning	99	2.23	35.72 ± 88.59	3536.74	2.93	1.32	24	0.44	3.56 ± 4.90	85.40	0.08	0.19
Tuberculosis	149	3.36	39.23 ± 74.75	5845.88	4.85	1.44	37	0.68	35.50 ± 14.90	1313.59	1.28	1.87
Septicaemia	4	0.09	152.04 ± 301.84	608.15	0.50	5.60						
STD suspicion	2	0.05	9.74 ± 5.73	19.49	0.02	0.36	25	0.46	18.26 ± 54.08	456.57	0.44	0.96
Vaginal discharge	1	0.02	0.33 ± 0	0.33	0.00	0.01						
Herpes viral inflammation of perianal	1	0.02	17.84 ± 0	17.84	0.01	0.66						
Genital warts	2	0.05	15.45 ± 19.30	30.90	0.03	0.57	5	0.09	33.80 ± 11.63	168.98	0.16	1.78
Rabies							6	0.11	324.37 ± 0	1946.21	1.89	17.11
Herpes simplex / cold sore							1	0.02	7.18 ± 0	7.81	0.01	0.41
Undefined bacterial infection	394	8.88	60.73 ± 142.76	23926.85	19.85	2.24	500	9.21	12.85 ± 70.80	6423.63	6.24	0.68
Undefined viral infection	11	0.25	**101.09 ± 184.98**	1111.95	0.92	**3.72**	12	0.22	8.51 ± 10.05	102.08	0.10	0.45
Karposi's sarcoma	2	0.05	55.54 ± 58.67	111.09	0.09	2.05						
Unspecified HIV	71	1.60	**132.02 ± 129.24**	9373.76	7.78	**4.86**	686	12.63	68.50 ± 107.91	46992.64	45.64	**3.61**
Fungal skin infection	12	0.27	21.63 ± 21.27	259.53	0.22	0.80	21	0.39	13.29 ± 16.99	279.09	0.27	0.70
Scabies	5	0.11	1.07 ± 0.46	5.34	0.00	0.04	11	0.20	6.66 ± 10.36	73.26	0.07	0.35
Candidiasis	21	0.47	9.64 ± 14.88	202.41	0.17	0.35	4	0.07	5.89 ± 4.07	23.67	0.02	0.31
Cryptococcosus - cerebral meningitis	3	0.07	94.52 ± 40.80	283.55	0.24	3.48						
Malaria							1	0.02	1.68 ± 0	1.68	0.00	0.09
Worm infections except tape worm	17	0.38	6.31 ± 0.66	107.20	0.09	0.23	12	0.22	7.50 ± 3.57	90.01	0.09	0.40
Hypercalcaemia	1	0.02	9.24 ± 0	9.24	0.01	0.34						
Malignant neoplasm of testis, unspecified	5	0.11	69.94 ± 111.19	349.69	0.29	2.58						

Appendix D.14: Average medicine cost per consultation according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Cancer of penis, unspecified	2	0.05	23.46 ± 12.98	46.92	0.04	0.86						
Multiple myeloma	1	0.02	154.34 ± 0	154.34	0.13	5.68						
Unspecified folate deficiency anemia	218	4.91	0.46 ± 0.44	100.52	0.08	0.02	43	0.79	0.95 ± 0.15	40.88	0.04	0.05
Unspecified anemia	179	4.03	2.37 ± 5.69	424.57	0.35	0.09	42	0.77	3.83 ± 8.79	160.78	0.16	0.20
Unspecified coagulation defects	120	2.70	44.85 ± 256.00	5381.84	4.46	1.65	121	2.23	8.92 ± 21.96	1078.78	1.05	0.47
Hypothyroidism, unspecified	9	0.20	5.76 ± 2.62	51.87	0.04	0.21						
Diabetes mellitus type 2	27	0.61	47.69 ± 35.83	128.71	0.11	0.18	33	0.61	44.23 ± 48.02	1459.49	1.42	2.33
Diabetes mellitus type 1	64	1.44	6.79 ± 7.15	434.46	0.36	0.25	62	1.14	8.16 ± 3.40	505.85	0.49	0.43
Hypoglycaemia/hyperglycaemia in diabetes mellitus	5	0.11	**659.74 ± 882.03**	3298.71	2.74	**24.29**						
Pellagra	2	0.05	2.22 ± 2.62	4.44	0.00	0.08						
Vitamin deficiency	613	13.81	1.03 ± 1.60	631.90	0.52	0.04	604	11.12	2.05 ± 4.39	1240.65	1.20	0.11
Mineral deficiency	106	2.39	1.70 ± 2.70	179.97	0.15	0.06	53	0.98	2.68 ± 2.04	142.25	0.14	0.14
Cholesterol	4	0.09	6.70 ± 6.95	26.81	0.02	0.25	5	0.09	7.81 ± 1.63	39.05	0.04	0.41
Sodium & water disturbances	1	0.02	27.33 ± 0	27.33	0.02	1.01						
Disorders of acid-base balance	67	1.51	15.64 ± 15.27	1047.90	0.87	0.58	61	1.12	17.57 ± 11.98	1071.69	1.04	0.93
Other disorders of fluid & electrolyte balance	127	2.86	13.08 ± 25.02	1661.59	1.38	0.48	28	0.52	3.29 ± 5.52	92.25	0.09	0.17
Schizophrenic disorder							4	0.07	12.72 ± 4.50	50.87	0.05	0.67
Bipolar affective disorder	1	0.02	0.12 ± 0	0.12	0.00	0.00						
Bipolar disorder	62	1.40	10.97 ± 31.86	680.24	0.56	0.40	29	0.53	3.03 ± 1.48	87.97	0.09	0.16
Major depressive disorder	91	2.05	11.63 ± 13.55	1058.48	0.88	0.43	103	1.90	16.75 ± 8.70	1724.80	1.68	0.88
Panic disorder	2	0.05	13.70 ± 5.16	27.40	0.02	0.50						

Appendix D.14: Average medicine cost per consultation according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Meningitis, bacterial	4	0.09	14.25 ± 16.27	57.00	0.05	0.52						
Inflammation	115	2.59	21.59 ± 47.67	2482.39	2.06	0.79	142	2.61	5.86 ± 11.13	832.45	0.81	0.31
Parkinsonism	7	0.16	22.86 ± 33.44	160.01	0.13	0.84	2	0.04	69.00 ± 0	138.00	0.13	3.64
Symptomatic epilepsy with complex partial seizures	5	0.11	71.65 ± 108.11	358.25	0.30	2.64						
Epilepsy	93	2.10	25.81 ± 36.32	2400.47	1.99	0.95	180	3.31	22.83 ± 17.43	4110.29	3.99	1.20
Status epileptics, unspecified	1	0.02	12.90 ± 0	12.90	0.01	0.48						
Acute inflammation of orbit (cellulites of the eye)	2	0.05	69.75 ± 73.42	139.51	0.12	2.57						
Conjunctivitis	8	0.18	2.27 ± 1.15	18.17	0.02	0.08	27	0.50	7.88 ± 9.32	212.66	0.21	0.42
Otitis externa							1	0.02	3.46 ± 0	3.46	0.00	0.18
Otitis media	3	0.07	13.09 ± 4.99	39.26	0.03	0.48						
Rheumatic fever without mentioning of heart involvement	7	0.16	180.11 ± 258.39	1260.78	1.05	6.63						
Hypertension	240	5.41	25.09 ± 61.72	6021.38	5.00	0.92	440	8.10	19.41 ± 43.55	8538.91	8.29	1.02
Angina	10	0.23	4.33 ± 8.16	43.31	0.04	0.16	8	0.15	5.15 ± 3.18	41.22	0.04	0.27
Congestive cardiac failure	10	0.23	74.95 ± 100.55	749.51	0.62	2.76						
Cardial failure	14	0.32	2.71 ± 2.23	37.88	0.03	0.10	17	0.31	3.89 ± 1.11	66.13	0.06	0.21
Arteriosclerotic gangerene	1	0.02	178.81 ± 0	178.81	0.15	6.58						
Haemorrhoids	6	0.14	7.74 ± 5.68	46.43	0.04	0.28	11	0.20	12.97 ± 3.96	142.68	0.14	0.68
Sinusitis	2	0.05	4.07 ± 5.72	8.13	0.01	0.15	23	0.42	3.50 ± 3.40	80.39	0.08	0.18
Tonsillitis (bacterial)	7	0.16	25.81 ± 22.26	180.70	0.15	0.95	5	0.09	9.88 ± 5.48	49.38	0.05	0.52
Gastro-enteritis	2	0.05	14.66 ± 3.49	29.32	0.02	0.54						

Appendix D.14: Average medicine cost per consultation according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Acute upper respiratory track infection, unspecified	1	0.02	15.31 ± 0	15.31	0.01	0.56	16	0.29	6.62 ± 6.50	105.86	0.10	0.35
Brongopneomonia, unspecified	19	0.43	74.64 ± 213.84	1418.15	1.18	2.75	1	0.02	3.46 ± 0	3.46	0.00	0.18
Pneumonia, unspecified	44	0.99	77.30 ± 90.85	3401.00	2.82	2.85						
Allergic rhinitis							1	0.02	2.19 ± 0	2.19	0.00	0.12
Chronic obstructive pulmonary disease with lower respiratory infection	18	0.41	31.36 ± 61.35	564.49	0.47	1.15	5	0.09	2.81 ± 1.26	14.05	0.01	0.15
Asthma, acute OR asthma, chronic	115	2.59	10.31 ± 20.19	1186.15	0.98	0.38	150	2.76	13.01 ± 12.47	1951.80	1.90	0.69
Abscess of the lung without pneumonia	9	0.20	100.57 ± 152.94	905.15	0.75	3.70						
Haemothorax	2	0.05	10.93 ± 10.56	21.85	0.02	0.40						
Dental abscess							31	0.57	1.49 ± 1.02	46.07	0.04	0.08
Mouth abscess	10	0.23	94.96 ± 125.52	949.56	0.79	**3.50**	7	0.13	4.65 ± 5.14	32.56	0.03	0.25
Peptic ulcer	9	0.20	66.77 ± 80.39	600.94	0.50	2.46						
Gastritis - acute haemorrhagic	11	0.25	40.62 ± 83.91	446.82	0.37	1.50						
Appendicitis, unspecified	1	0.02	143.55 ± 0	143.55	0.12	5.29						
Urinary tract infection	2	0.05	3.67 ± 1.22	7.35	0.01	0.14						
Constipation	27	0.61	26.21 ± 66.29	707.57	0.59	0.97	10	0.18	5.58 ± 2.77	55.78	0.05	0.29
Alcohol liver disease, unspecified	2	0.05	172.84 ± 243.42	345.69	0.29	6.36						
Gastro-intestine haemorrhage, unspecified	2	0.05	1.68 ± 1.85	3.36	0.00	0.06						
Abdominal cramps	26	0.59	6.71 ± 15.46	174.44	0.14	0.25	21	0.39	3.42 ± 4.00	71.88	0.07	0.18
Boils / impetigo	3	0.07	5.78 ± 7.49	17.34	0.01	0.21	1	0.02	2.61 ± 0	2.61	0.00	0.14
Unspecified cellulites	8	0.18	59.83 ± 46.78	478.68	0.40	2.20						

Appendix D.14: Average medicine cost per consultation according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Dermatitis herpetiformis	2	0.05	45.94 ± 42.91	91.88	0.08	1.69						
Rash	1	0.02	1.22 ± 0	1.22	0.00	0.04	3	0.06	4.47 ± 6.29	13.40	0.01	0.24
Pruritus							15	0.28	2.23 ± 1.09	33.41	0.03	0.12
Psoriasis							12	0.22	9.07 ± 4.44	108.80	0.11	0.48
Septic arthritis, acute	6	0.14	63.94 ± 69.15	383.66	0.32	2.35						
Gout	4	0.09	24.94 ± 33.64	99.74	0.08	0.92	3	0.06	9.90 ± 3.24	29.71	0.03	0.52
Muscle relaxant	16	0.36	2.78 ± 2.86	44.51	0.04	0.10	19	0.35	4.74 ± 0.81	90.05	0.09	0.25
Nephritis	2	0.05	129.48 ± 176.64	258.96	0.21	4.77						
Chronic obstructive pyelonephritis	2	0.05	53.74 ± 62.46	107.48	0.09	1.98						
Urinary track infection, uncomplicated	12	0.27	21.83 ± 35.22	261.91	0.22	0.80	22	0.41	7.29 ± 11.03	160.45	0.16	0.38
Benign prostatic hyperplasia	2	0.05	13.40 ± 16.06	26.79	0.02	0.49						
Pelvic inflammation disease	1	0.02	182.68 ± 0	182.68	0.15	6.73						
Bartholin's abscess	3	0.07	71.86 ± 118.67	215.57	0.18	2.65						
Vaginal bleeding	1	0.02	9.48 ± 0	9.48	0.01	0.35						
Abortion, complicated, therapeutic, legal	15	0.34	61.75 ± 75.35	926.21	0.77	2.27	50	0.92	5.07 ± 5.43	253.28	0.25	0.27
Abscess of the breast	3	0.07	79.63 ± 119.85	238.90	0.20	2.93						
Congenital malformations of the heart, unspecified	1	0.02	4.53 ± 0	4.53	0.00	0.17						
Cough	22	0.50	1.70 ± 0.72	37.49	0.03	0.06	49	0.90	2.27 ± 0.54	111.34	0.11	0.12
Gastro diarrhoea	1	0.02	0.37 ± 0	0.37	0.00	0.01						
Nausea	89	2.00	5.29 ± 7.02	470.64	0.39	0.19	48	0.88	1.43 ± 0.95	68.60	0.07	0.08
Pain control	774	17.44	36.67 ± 153.80	28382.76	23.55	1.35	1385	25.50	13.16 ± 36.05	18229.81	17.70	0.69
Anaphylactic shock / shock	1	0.02	0.94 ± 0	0.94	0.00	0.03						
Feeding supplement	1	0.02	7.30 ± 0	7.30	0.01	0.27						

Appendix D.14: Average medicine cost per consultation according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Wound caring	1	0.02	59.64 ± 0	59.64	0.05	2.20						
Amputation of upper limb, level unspecified	2	0.05	26.72 ± 35.21	53.43	0.04	0.98						
Foreign body in ear (wax)	3	0.07	11.35 ± 9.78	34.06	0.03	0.42	15	0.28	8.67 ± 9.19	130.11	0.13	0.46
Burns, complicated							1	0.02	3.46 ± 0	3.46	0.00	0.18
Toxic effect of petroleum products							1	0.02	2.61 ± 0	2.61	0.00	0.14
Bites and stings	2	0.05	83.11 ± 44.27	166.22	0.14	3.06						
Toxic effect of poisons (unspecified substances)	2	0.05	0.52 ± 0.56	1.03	0.00	0.02						
Rape	2	0.05	4.26 ± 5.72	8.52	0.01	0.16	6	0.11	86.74 ± 132.17	520.44	0.51	4.58
Antihistamine for allergies	34	0.77	3.83 ± 12.47	130.11	0.11	0.14	94	1.73	2.06 ± 0.82	194.09	0.19	0.11
Failed or difficult intubations	2	0.05	0.75 ± 0.43	1.49	0.00	0.03						
Sedation	32	0.72	0.60 ± 0.83	19.28	0.02	0.02	10	0.18	0.46 ± 0.34	4.57	0.00	0.02
Unknown diagnose	31	0.79	17.91 ± 32.45	604.80	0.60	0.76	28	0.52	18.58 ± 46.44	520.32	0.51	0.98
Hormone replacement therapy	2	0.05	13.53 ± 1.60	27.06	0.02	0.50	10	0.18	16.46 ± 12.84	164.61	0.16	0.87
Immunisation	10	0.23	3.71 ± 6.17	37.14	0.03	0.14	25	0.46	1.27 ± 0.43	31.83	0.03	0.07
Family planning	9	0.20	89.25 ± 196.96	803.23	0.67	3.29	3	0.06	44.43 ± 21.71	133.29	0.13	2.34
Post partum bleeding	1	0.02	66.11 ± 0	66.11	0.05	2.43						
Total	**4439**	**100**		**120544.81**	**100**		**5431**	**100**		**102965.94**	**100**	

* Percentage was calculated for ICD-10 codes according to the total number of medicine items dispenced to inpatients and outpatients respectively

** Percentage was calculated for ICD-10 codes according to the total cost for inpatients and outpatients respectively

Appendix D.15: Average cost per medicine item according to budget groups and gender

The bold printed figures is those discussed in Chapter 5

Gender	Budget group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Anti-infective	624	27.61	**38.13 ± 93.80**	23791.26	53.83	1.95	475	22.66	47.40 ± 96.36	22512.9	53.27	2.35
	Cardiovascular agents	236	10.44	8.79 ± 22.06	2075.62	4.70	0.45	174	8.30	12.58 ± 17.66	2189.47	5.18	0.62
	Dermatological	36	1.59	12.15 ± 22.37	437.48	0.99	0.62	88	4.20	9.83 ± 12.89	865.32	2.05	0.49
	Endocrine	77	3.41	11.147 ± 18.00	857.62	1.94	0.57	97	4.63	18.82 ± 33.35	1825.95	4.32	0.93
	Functional	123	5.44	13.88 ± 26.87	1707.55	3.86	0.71	145	6.92	20.18 ± 17.08	2925.54	6.92	1.00
	Gastrolyte	462	20.44	**3.77 ± 7.60**	1740.04	3.94	0.19	339	16.17	**3.15 ± 5.70**	1067.49	2.53	0.16
	Pain reliever	553	24.47	21.27 ± 105.50	11759.98	26.61	1.09	651	31.06	12.49 ± 33.21	8129.29	19.23	0.62
	Immunological	8	0.35	4.24 ± 6.87	33.95	0.08	0.22	25	1.19	**78.78 ± 140.85**	1969.55	4.66	3.91
	Respiratory agents	141	6.24	12.72 ± 17.35	1794.18	4.06	0.65	102	4.87	7.64 ± 11.66	779.7	1.84	0.38
	Total	**2260**	**100**		**44197.68**	**100**		**2096**	**100**		**42265.21**	**100**	
Female	Anti-infective	1113	27.63	**32.11 ± 86.90**	35738.09	46.11	1.67	882	26.06	**36.58 ± 90.94**	32263.59	53.15	2.04
	Cardiovascular agents	720	17.87	13.53 ± 109.02	9739.98	12.57	0.70	410	12.12	19.17 ± 46.88	7860.51	12.95	1.07
	Dermatological	48	1.19	7.58 ± 14.41	363.84	0.47	0.39	112	3.31	8.76 ± 25.14	980.87	1.62	0.49
	Endocrine	233	5.78	30.32 ± 153.09	7064.71	9.11	1.58	163	4.82	7.93 ± 11.91	1292.43	2.13	0.44
	Functional	218	5.41	12.57 ± 20.20	2739.92	3.53	0.65	204	6.03	16.19 ± 14.24	3302.27	5.44	0.90
	Gastrolyte	888	22.05	3.31 ± 7.85	2938.23	3.79	0.17	562	16.61	3.81 ± 6.98	2142.21	3.53	0.21
	Pain reliever	630	15.64	26.76 ± 137.97	16856.93	21.75	1.39	836	24.70	12.22 ± 35.73	10211.75	16.82	0.68
	Immunological	2	0.05	**1.59 ± 0.75**	3.18	0.00	0.08	6	0.18	**1.41 ± 0.55**	8.49	0.01	0.08
	Respiratory agents	176	4.37	11.76 ± 16.98	2069.37	2.67	0.61	209	6.18	12.62 ± 15.06	2637.81	4.35	0.70
	Total	**4028**	**100**		**77514.25**	**100**		**3384**	**100**		**60699.93**	**100**	

* Percentage was calculated for budget groups according to the total number of medicine items dispenced to male and female in- and outpatients respectively

** Percentage was calculated for budget groups according to the total cost for male and female in- and outpatients respectively

Appendix D.16: Average cost per medicine item according to budget groups and age groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Age group (years)	Budget group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Anti-infective	426	39.01	**25.24 ± 88.01**	10753.41	81.18	2.08	87	30.31	21.02 ± 46.20	1828.75	68.82	2.27
	Cardiovascular agents	102	9.34	**1.43 ± 3.19**	146.09	1.10	0.12	10	3.48	7.33 ± 17.85	73.30	2.76	0.79
	Dermatological	10	0.92	11.77 ± 18.35	117.68	0.89	0.97	17	5.92	3.60 ± 4.73	61.23	2.30	0.39
	Endocrine	22	2.01	14.71 ± 19.13	323.57	2.44	1.21	4	1.39	23.69 ± 21.26	94.75	3.57	2.56
	Functional	16	1.47	14.14 ± 25.00	226.24	1.71	1.17	4	1.39	**43.56 ± 39.68**	174.25	6.56	4.70
	Gastrolyte	286	26.19	2.42 ± 5.37	691.64	5.22	0.20	65	22.65	**1.72 ± 2.49**	111.65	4.20	0.19
	Pain reliever	125	11.45	1.43 ± 1.01	178.33	1.35	0.12	67	23.34	2.52 ± 1.35	168.77	6.35	0.27
	Immunological	1	0.09	2.12 ± 0	2.12	0.02	0.17						
	Respiratory agents	104	9.52	7.76 ± 12.21	807.24	6.09	0.64	33	11.50	4.38 ± 7.43	144.62	5.44	0.47
	Total	**1092**	**100**		**13246.32**	**100**		**287**	**100**		**2657.32**	**100**	
>6≤12	Anti-infective	97	32.77	**32.14 ± 84.26**	3117.11	55.92	1.71	86	38.05	**86.08 ± 182.30**	7402.64	89.16	2.34
	Cardiovascular agents	64	21.62	30.53 ± 82.60	1954.23	35.06	1.62	1	0.44	1.16 ± 0	1.16	0.01	0.03
	Dermatological	12	4.05	**0.82 ± 0.37**	9.78	0.18	0.04	8	3.54	11.61 ± 13.31	92.86	1.12	0.32
	Endocrine	13	4.39	1.86 ± 1.01	24.17	0.43	0.10	5	2.21	2.96 ± 3.05	14.78	0.18	0.08
	Functional	10	3.38	19.34 ± 34.92	193.42	3.47	1.03	12	5.31	28.75 ± 24.85	345.04	4.16	0.78
	Gastrolyte	55	18.58	3.16 ± 6.92	174.01	3.12	0.17	43	19.03	3.76 ± 5.18	161.62	1.95	0.10
	Pain reliever	40	13.51	1.80 ± 1.65	72.08	1.29	0.10	46	20.35	2.47 ± 2.00	113.52	1.37	0.07
	Immunological	1	0.34	1.06 ± 0	1.06	0.02	0.06	1	0.44	**1.06 ± 0**	1.06	0.01	0.03
	Respiratory agents	4	1.35	6.99 ± 8.28	27.94	0.50	0.37	24	10.62	7.09 ± 9.03	170.24	2.05	0.19
	Total	**296**	**100**		**5573.80**	**100**		**226**	**100**		**8302.92**	**100**	
>12≤19	Anti-infective	54	26.09	**55.96 ± 143.90**	3021.64	73.90	2.83	33	21.02	12.69 ± 44.55	418.77	25.27	1.20
	Cardiovascular agents	28	13.53	13.55 ± 45.21	379.43	9.28	0.69	2	1.27	**31.18 ± 10.05**	62.37	3.76	2.96
	Dermatological	1	0.48	11.40 ± 0	11.40	0.28	0.58	7	4.46	4.61 ± 5.57	32.30	1.95	0.44
	Endocrine	7	3.38	7.11 ± 9.07	49.76	1.22	0.36	3	1.91	7.85 ± 9.98	23.54	1.42	0.74
	Functional	15	7.25	7.76 ± 9.47	116.46	2.85	0.39	2	1.27	11.44 ± 12.62	22.89	1.38	1.08
	Gastrolyte	38	18.36	2.08 ± 4.81	79.14	1.94	0.11	16	10.19	3.50 ± 6.87	55.97	3.38	0.33
	Pain reliever	60	28.99	7.06 ± 25.11	423.37	10.35	0.36	78	49.68	11.48 ± 32.89	895.70	54.06	1.09
	Immunological	1	0.48	2.12 ± 0	2.12	0.05	0.11	3	1.91	**1.06 ± 0**	3.18	0.19	0.10
	Respiratory agents	3	1.45	**1.75 ± 0.52**	5.25	0.13	0.09	13	8.28	10.93 ± 14.24	142.14	8.58	1.04
	Total	**207**	**100**		**4088.57**	**100**		**157**	**100**		**1656.86**	**100**	

Appendix D.16: Average cost per medicine item according to budget groups and age groups (continue)

Age group (years)	Budget group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Anti-infective	656	31.30	**39.69 ± 98.81**	26033.71	51.65	1.65	634	31.67	**33.01 ± 84.31**	20925.63	59.94	1.89
	Cardiovascular agents	235	11.21	5.81 ± 23.97	1365.85	2.71	0.24	67	3.35	14.31 ± 38.07	958.66	2.75	0.82
	Dermatological	33	1.57	11.63 ± 16.54	383.77	0.76	0.48	71	3.55	9.62 ± 30.23	683.14	1.96	0.55
	Endocrine	84	4.01	18.71 ± 40.54	1571.88	3.12	0.78	68	3.40	7.98 ± 13.27	542.82	1.55	0.46
	Functional	137	6.54	12.84 ± 25.21	1758.68	3.49	0.53	113	5.64	17.93 ± 15.90	2025.71	5.80	1.03
	Gastrolyte	424	20.23	**3.24 ± 6.60**	1369.63	2.72	0.13	381	19.03	3.99 ± 7.33	1519.99	4.35	0.23
	Pain reliever	423	20.18	38.27 ± 156.80	16186.84	32.12	1.59	527	26.32	12.55 ± 33.74	6611.76	18.94	0.72
	Immunological	7	0.33	4.55 ± 7.37	31.83	0.06	0.19	18	0.90	**1.36 ± 0.49**	24.40	0.07	0.08
	Respiratory agents	97	4.63	17.52 ± 20.50	1699.59	3.37	0.73	123	6.14	13.18 ± 15.86	1621.50	4.64	0.76
	Total	**2096**	**100**		**50401.78**	**100**		**2002**	**100**		**34913.61**	**100**	
>40≤60	Anti-infective	350	23.38	**35.04 ± 73.24**	12262.62	40.95	1.75	464	23.33	**51.05 ± 90.24**	23685.72	55.35	2.37
	Cardiovascular agents	263	17.57	21.98 ± 173.60	5780.17	19.30	1.10	286	14.38	18.45 ± 49.83	5276.14	12.33	0.86
	Dermatological	19	1.27	12.46 ± 27.95	236.69	0.79	0.62	71	3.57	10.48 ± 14.51	744.06	1.74	0.49
	Endocrine	98	6.55	17.34 ± 38.70	1699.72	5.68	0.87	127	6.39	15.26 ± 30.41	1938.29	4.53	0.71
	Functional	95	6.35	15.03 ± 21.96	1427.94	4.77	0.75	174	8.75	17.10 ± 14.66	2976.13	6.95	0.79
	Gastrolyte	309	20.64	**3.29 ± 5.92**	1017.54	3.40	0.16	305	15.33	3.34 ± 5.93	1018.27	2.38	0.16
	Pain reliever	279	18.64	22.62 ± 133.16	6312.01	21.08	1.13	492	24.74	13.01 ± 33.79	6401.90	14.96	0.60
	Immunological							2	0.10	**1.06 ± 0**	2.12	0.00	0.05
	Respiratory agents	84	5.61	14.35 ± 18.64	1205.21	4.03	0.72	68	3.42	11.04 ± 16.32	751.05	1.76	0.51
	Total	**1497**	**100**		**29941.90**	**100**		**1989**	**100**		**42793.68**	**100**	
>60	Anti-infective	154	14.00	28.19 ± 55.39	4340.87	23.52	1.68	53	6.51	9.72 ± 11.79	514.99	4.11	0.63
	Cardiovascular agents	264	24.00	8.29 ± 16.92	2189.83	11.86	0.49	218	26.78	16.87 ± 26.24	3678.36	29.37	1.10
	Dermatological	9	0.82	**4.67 ± 6.74**	42.00	0.23	0.28	26	3.19	8.95 ± 11.45	232.60	1.86	0.58
	Endocrine	86	7.82	**49.46 ± 245.47**	4253.22	23.04	2.95	53	6.51	9.51 ± 7.92	504.20	4.03	0.62
	Functional	68	6.18	10.66 ± 18.03	724.73	3.93	0.64	44	5.41	15.54 ± 8.11	683.80	5.46	1.01
	Gastrolyte	238	21.64	5.66 ± 12.81	1346.31	7.29	0.34	91	11.18	**3.76 ± 7.31**	342.20	2.73	0.24
	Pain reliever	256	23.27	21.27 ± 100.06	5444.28	29.49	1.27	273	33.54	14.77 ± 43.55	4031.98	32.20	0.96
	Immunological							6	0.74	**324.37 ± 0**	1946.21	15.54	21.09
	Respiratory agents	25	2.27	4.73 ± 4.31	118.33	0.64	0.28	50	6.14	11.76 ± 10.61	587.96	4.70	0.76
	Total	**1100**	**100**		**18459.57**	**100**		**814**	**100**		**12522.30**	**100**	

* Percentage was calculated for budget groups according to the total number of medicine items dispenced to inpatients and outpatients in the different age groups respectively

** Percentage was calculated for budget groups according to the total cost for inpatients and outpatients in the different age groups respectively

Appendix D.17: Average cost per medicine item according to budget groups and ICD-10 codes

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures indicate the totals and those figures discussed in Chapter 5

Budget group	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Anti-infective	Diarrhoea, infective / food poisoning	154	8.87	21.23 ± 59.78	3296.04	5.53	0.62	10	0.74	5.96 ± 6.41	59.64	0.11	0.15
	Tuberculosis	59	3.40	51.12 ± 91.92	3015.89	5.06	1.49	3	0.22	4.39 ± 0.83	13.08	0.02	0.11
	Septicaemia	5	0.29	121.63 ± 218.07	608.15	1.02	3.55						
	STD suspicion	5	0.29	3.90 ± 4.67	19.49	0.03	0.11	25	1.84	18.26 ± 54.08	456.57	0.83	0.45
	Vaginal discharge	1	0.06	0.33 ± 0	0.33	0.00	0.01						
	Herpes viral inflammation of perianal skin & rectum	2	0.12	8.92 ± 9.44	17.84	0.03	0.26						
	Genital warts	3	0.17	10.30 ± 7.57	30.90	0.05	0.30						
	Undefined bacterial infection	686	39.49	34.88 ± 107.03	23924.99	40.17	1.02	494	36.40	12.71 ± 71.19	6279.73	11.46	0.31
	Undefined viral infection	15	0.86	74.06 ± 155.70	1110.95	1.87	2.16	7	0.52	3.10 ± 0.72	21.67	0.04	0.08
	Karposi's sarcoma	4	0.23	27.77 ± 43.46	111.09	0.19	0.81						
	Unspecified HIV	241	13.87	38.90 ± 71.57	9373.76	15.74	1.13	685	50.48	68.24 ± 107.77	46745.3	85.34	1.69
	Scabies							2	0.15	26.00 ± 10.75	51.99	0.09	0.64
	Candidiase	18	1.04	4.04 ± 5.26	72.70	0.12	0.12	4	0.29	5.89 ± 4.07	23.57	0.04	0.15
	Cryptococcus - cerebral meningitis	4	0.23	70.89 ± 55.30	283.55	0.48	2.07						
	Hypercalcaemia	1	0.06	9.24 ± 0	9.24	0.02	0.27						
	Malignant neoplasm testis, unspecified	7	0.40	49.96 ± 96.15	349.69	0.59	1.46						
	Cancer of penis, unspecified	2	0.12	23.46 ± 12.98	46.92	0.08	0.68						
	Multiple Myeloma	2	0.12	77.17 ± 63.95	154.34	0.26	2.25						
	Unspecified anemia	4	0.23	1.63 ± 0.99	6.51	0.01	0.05						
	Unspecified coagulation defects							1	0.07	3.46 ± 0	3.46	0.01	0.09
	Hypoglycaemia/hyperglycaemia in diabetes mellitus	2	0.12	2.74 ± 1.33	5.48	0.01	0.08						
	Other disorders of fluid & electrolyte balance	8	0.46	33.35 ± 61.46	266.79	0.45	0.97	2	0.15	1.86 ± 1.06	3.73	0.01	0.05
	Bipolar Disorder							1	0.07	3.46 ± 0	3.46	0.01	0.09
	Meningitis, bacterial	6	0.35	9.50 ± 7.47	57.00	0.10	0.28						
	Symptomatic epilepsy with complex partial seizures	10	0.58	35.83 ± 53.87	358.25	0.60	1.04						
	Epilepsy	3	0.17	2.25 ± 0.78	6.76	0.01	0.07						

Appendix D.17: Average cost per medicine item according to budget groups and ICD-10 codes (continue)

Budget group	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Anti-infective	Status epileptics, unspecified	1	0.06	12.90 ± 0	12.90	0.02	0.38						
	Acute inflammation of orbit (cellulites of the eye)	8	0.46	17.44 ± 31.34	139.51	0.23	0.51						
	Conjunctivitis							1	0.07	5.23 ± 0	5.23	0.01	0.13
	Otitis externa							1	0.07	3.46 ± 0	3.46	0.01	0.09
	Otitis media	5	0.29	7.85 ± 2.80	39.26	0.07	0.23						
	Rheumatic fever without mention of heart involveme	15	0.86	84.05 ± 155.84	1260.78	2.12	2.45						
	Hypertension	4	0.23	20.43 ± 22.73	81.70	0.14	0.60						
	Angina	1	0.06	3.46 ± 0	3.46	0.01	0.10						
	Congestive cardial failure	13	0.75	57.65 ± 90.35	749.51	1.26	1.68						
	Arteriosclerotic gangerene	2	0.12	89.41 ± 81.26	178.81	0.30	2.61						
	Haemorrhoids							2	0.15	8.36 ± 10.24	16.72	0.03	0.21
	Sinusitis	1	0.06	5.76 ± 0	5.76	0.01	0.17	1	0.07	18.39 ± 0	18.39	0.03	0.46
	Tonsillitis (Bacterial)	10	0.58	18.07 ± 18.49	180.70	0.30	0.53	5	0.37	9.88 ± 5.48	49.38	0.09	0.24
	Gastro-enteritis	5	0.29	5.86 ± 5.20	29.32	0.05	0.17						
	Acute upper respiratorie track infection, unspecified	2	0.12	7.66 ± 4.89	15.31	0.03	0.22	16	1.18	6.62 ± 6.50	105.86	0.19	0.16
	Brongopneomonia, unspecified	45	2.59	31.51 ± 125.95	1418.15	2.38	0.92	1	0.07	3.46 ± 0	3.46	0.01	0.09
	Pneumonia, unspecified	85	4.89	40.01 ± 70.61	3401.00	5.71	1.17						
	Chronic obstructive pulmonary disease with acute lower respiratory infection	35	2.01	16.13 ± 34.79	564.49	0.95	0.47	5	0.37	2.81 ± 1.26	14.05	0.03	0.07
	Asthma, acute OR asthma, chronic persistent	1	0.06	3.46 ± 0	3.46	0.01	0.10						
	Abscess of the lung without pneumonia	22	1.27	41.14 ± 73.01	905.15	1.52	1.20						
	Haemothorax	2	0.12	10.93 ± 10.56	21.85	0.04	0.32						
	Dental abscess	2	0.12	1.33 ± 1.81	2.67	0.00	0.04	5	0.37	2.69 ± 2.28	13.45	0.02	0.07
	Mouth abscess	22	1.27	43.16 ± 90.94	949.56	1.59	1.26	7	0.52	4.65 ± 5.14	32.56	0.06	0.12
	Peptic ulcer	15	0.86	40.06 ± 68.95	600.94	1.01	1.17						
	Gastritis - acute, haemorrhagic	25	1.44	17.87 ± 49.11	446.82	0.75	0.52						
	Appenditis, unspecified	3	0.17	47.85 ± 71.89	143.55	0.24	1.40						
	Urinary tract infection	3	0.17	2.45 ± 2.13	7.35	0.01	0.07						
	Constipation	10	0.58	55.73 ± 101.04	557.27	0.94	1.63						

Appendix D.17: Average cost per medicine item according to budget groups and ICD-10 codes (continue)

Budget group	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Anti-infective	Alcohol liver disease, unspecified	4	0.23	86.42 ± 160.10	345.69	0.58	2.52						
	Gastrointestinal haemorrhage, unspecified	2	0.12	1.68 ± 1.85	3.36	0.01	0.05						
	Abdominal cramps	5	0.29	15.93 ± 28.09	79.65	0.13	0.46	1	0.07	3.46 ± 0	3.46	0.01	0.09
	Boils / impetigo	3	0.17	5.78 ± 7.49	17.34	0.03	0.17	1	0.07	2.61 ± 0	2.61	0.00	0.06
	Unspecified cellulites	16	0.92	29.92 ± 41.61	478.68	0.80	0.87						
	Dermatitis herpetiformis	3	0.17	30.63 ± 23.01	91.88	0.15	0.89						
	Psoriasis							12	0.88	9.07 ± 4.44	108.8	0.20	0.22
	Septic arthritis, acute	14	0.81	27.40 ± 47.49	383.66	0.64	0.80						
	Nephritis	5	0.29	51.79 ± 99.30	258.96	0.43	1.51						
	Chronic obstructive pyelonephritis	3	0.17	35.83 ± 53.95	107.48	0.18	1.04						
	Urinary track infection, uncomplicated	14	0.81	18.71 ± 29.74	261.91	0.44	0.55	22	1.62	7.29 ± 11.03	160.45	0.29	0.18
	Benign prostatic hyperplasia	2	0.12	13.39 ± 16.06	26.79	0.04	0.39						
	Pelvic inflammation disease	6	0.35	30.45 ± 57.41	182.68	0.31	0.89						
	Bartholin's abscess	7	0.40	30.80 ± 72.89	215.57	0.36	0.90						
	Vaginal bleeding	1	0.06	9.48 ± 0	9.48	0.02	0.28						
	Abortion, complicated, therapeutic, legal	31	1.78	28.83 ± 54.83	893.87	1.50	0.84	34	2.51	**1.40 ± 0.30**	47.7	0.09	0.03
	Abscess of the breast	6	0.35	39.82 ± 69.91	238.90	0.40	1.16						
	Congenital malformations of heart, unspecified	1	0.06	4.53 ± 0	4.53	0.01	0.13						
	Cough							1	0.07	2.23 ± 0	2.23	0.00	0.06
	Gastro diarrhoea	3	0.17	**0.12 ± 0.12**	0.36	0.00	0.00						
	Nausea	3	0.17	9.39 ± 8.84	28.18	0.05	0.27						
	Pain control	1	0.06	1.12 ± 0	1.12	0.00	0.03						
	Wound caring	1	0.06	59.64 ± 0	59.64	0.10	1.74						
	Amputation of upper limb, level unspecified	7	0.40	7.63 ± 14.89	53.43	0.09	0.22						
	Burns, complicated							1	0.07	3.46 ± 0	3.46	0.01	0.09
	Toxic effect of petroleum products							1	0.07	2.61 ± 0	2.61	0.00	0.06
	Bites and Stings	4	0.23	41.55 ± 50.24	166.22	0.28	1.21						
	Toxic effect of poisons (unspecified substance)	2	0.12	0.51 ± 0.56	1.03	0.00	0.02						
	Rape	3	0.17	2.84 ± 4.10	8.52	0.01	0.08	6	0.44	**86.74 ± 132.17**	520.44	0.95	2.15

Appendix D.17: Average cost per medicine item according to budget groups and ICD-10 codes (continue)

Budget group	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Anti-infective	Antihistamine for allergies	2	0.12	4.85 ± 4.68	9.70	0.02	0.14						
	Unknown diagnose	7	0.40	17.25 ± 21.83	120.77	0.20	0.50						
	Family planning	1	0.06	**594.95 ± 0**	594.95	1.00	17.35						
	Post partum bleeding	1	0.06	66.11 ± 0	66.11	0.11	1.93						
	Total	**1737**	**100**		**59556.40**	**100**		**1357**	**100**		**54776.52**	**100**	
Cardiovascular agents	Unspecified HIV							1	0.17	**247.34 ± 0**	247.34	2.46	14.37
	Unspecified folate deficiency anemia	221	23.12	**0.45 ± 0.44**	100.52	0.85	0.04	43	7.36	**0.95 ± 0.15**	40.88	0.41	0.06
	Unspecified anemia	177	18.51	2.15 ± 5.15	381.04	3.22	0.17	41	7.02	3.56 ± 8.72	145.87	1.45	0.21
	Unspecified coagulation defects	60	6.28	**88.51 ± 355.63**	5310.86	44.95	7.16	29	4.97	32.09 ± 35.54	930.58	9.26	1.86
	Pellagra	2	0.21	2.22 ± 2.62	4.44	0.04	0.18						
	Vitamin deficiency	1	0.10	1.00 ± 0	1.00	0.01	0.08						
	Mineral deficiency	1	0.10	0.50 ± 0	0.50	0.00	0.04						
	Cholesterol	4	0.42	6.70 ± 6.95	26.81	0.23	0.54	5	0.86	7.81 ± 1.63	39.05	0.39	0.45
	Hypertension	467	48.85	12.72 ± 41.33	5939.68	50.27	1.03	440	75.34	19.41 ± 43.55	8538.91	84.96	1.13
	Angina	9	0.94	1.43 ± 1.29	12.87	0.11	0.12	8	1.37	5.15 ± 3.18	41.22	0.41	0.30
	Cardial failure	14	1.46	2.71 ± 2.23	37.88	0.32	0.22	17	2.91	3.89 ± 1.11	66.13	0.66	0.23
	Total	**956**	**100**		**11815.60**	**100**		**584**	**100**		**10049.98**	**100**	
Dermatological	Genital warts							5	2.50	33.80 ± 11.63	168.98	9.15	3.66
	Herpes simplex / cold sore							1	0.50	7.18 ± 0	7.18	0.39	0.78
	Undefined bacterial infection							6	3.00	15.07 ± 15.49	90.42	4.90	1.63
	Undefined viral infection	1	1.19	1.01 ± 0	1.01	0.13	0.11	5	2.50	16.08 ± 012.41	80.42	4.36	1.74
	Fungal skin infection	12	14.29	21.63 ± 21.27	259.53	32.39	2.27	21	10.50	13.29 ± 16.99	279.09	15.12	1.44
	Scabies	5	5.95	1.07 ± 0.46	5.34	0.67	0.11	9	4.50	2.36 ± 2.33	21.26	1.15	0.26
	Candidiase	3	3.57	**43.24 ± 1.73**	129.71	16.19	4.53						
	Disorders of acid-base balance	7	8.33	0.68 ± 0.27	4.76	0.59	0.07						
	Inflammation	19	22.62	1.94 ± 2.49	36.84	4.60	0.20	50	25.00	3.74 ± 7.18	187.2	10.14	0.41
	Conjunctivitis	8	9.52	2.27 ± 1.15	18.17	2.27	0.24	26	13.00	7.98 ± 9.49	207.43	11.24	0.86
	Sinusitis	1	1.19	**0.02 ± 0**	0.02	0.00	0.00	13	6.50	3.11 ± 1.28	40.37	2.19	0.34
	Rash	1	1.19	1.22 ± 0	1.22	0.15	0.13	3	1.50	4.47 ± 6.29	13.4	0.73	0.48

Appendix D.17: Average cost per medicine item according to budget groups and ICD-10 codes (continue)

Budget group	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		*n*	%*	Mean & std dev	R	%**	
Dermatological	Pruritis							15	7.50	**2.23 ± 1.09**	33.41	1.81	0.24
	Pain control							1	0.50	**60.00 ± 0**	60	3.25	6.50
	Foreign body in ear (wax)	3	3.57	11.35 ± 9.78	34.06	4.25	1.19	15	7.50	8.67 ± 9.19	130.11	7.05	0.94
	Antihistamine for allergies							2	1.00	3.31 ± 2.00	6.63	0.36	0.36
	Unknown diagnose	24	28.57	12.94 ± 24.92	310.67	38.77	1.36	28	14.00	18.58 ± 46.44	520.32	28.18	2.01
	Total	**84**	**100**		**801.33**	**100**		**200**	**100**		**1846.22**	**100**	
Endocrine	Undefined bacterial infection							2	0.77	26.74 ± 12.61	53.48	1.71	2.23
	Hypothyriodisme, unspecified	9	2.90	5.76 ± 2.62	51.87	0.65	0.23						
	Diabetes mellitus type 1	46	14.84	27.99 ± 32.92	1287.71	16.25	1.10	34	13.08	42.93 ± 47.89	1459.49	46.80	3.58
	Diabetes mellitus type 2	95	30.65	4.57 ± 4.20	434.46	5.48	0.18	62	23.85	8.16 ± 3.40	505.85	16.22	0.68
	Hypoglycaemia/hyperglycaemia in diabetes mellius	3	0.97	**1097.74 ± 914.63**	3293.22	41.57	42.95						
	Vitamin deficiency	1	0.32	**0.37 ± 0**	0.37	0.00	0.01	1	0.38	3.13 ± 0	3.13	0.10	0.26
	Inflammation	110	35.48	21.04 ± 46.44	2314.38	29.21	0.82	117	45.00	5.50 ± 10.39	643.35	20.63	0.46
	Asthma, acute OR asthma, chronic persistent	31	10.00	7.27 ± 13.39	225.25	2.84	0.28	24	9.23	6.38 ± 8.09	153.1	4.91	0.53
	Pain control	2	0.65	4.21 ± 5.85	8.42	0.11	0.16						
	Antihistamine for allergies	2	0.65	35.66 ± 25.21	71.31	0.90	1.40	7	2.69	**0.30 ± 0.16**	2.09	0.07	0.02
	Hormone replacement therapy	2	0.65	13.53 ± 1.60	27.06	0.34	0.53	10	3.85	16.46 ± 12.84	164.61	5.28	1.37
	Family planning	9	2.90	23.14 ± 34.79	208.28	2.63	0.91	3	1.15	**44.43 ± 21.71**	133.29	4.27	3.70
	Total	**310**	**100**		**7922.33**	**100**		**260**	**100**		**3118.39**	**100**	**1.00**
Functional	Schizophrenic disorder							4	1.15	12.72 ± 4.50	50.87	0.82	0.71
	Bipolar affective disorder	1	0.29	**0.12 ± 0**	0.12	0.00	0.01						
	Bipolar disorder	66	19.35	10.31 ± 29.05	680.24	15.29	0.79	28	8.02	3.02 ± 1.51	84.51	1.36	0.17
	Major depressive disorder	93	27.27	11.38 ± 13.48	1058.48	23.80	0.87	103	29.51	16.75 ± 8.70	1724.8	27.72	0.94
	Parkinsonism	7	2.05	22.86 ± 33.44	160.01	3.60	1.75	2	0.57	**69.00 ± 0**	138	2.22	3.87
	Epilepsy	114	33.43	21.00 ± 26.83	2393.71	53.82	1.61	181	51.86	22.71 ± 17.36	4110.29	66.05	1.27
	Angina	1	0.29	**26.98 ± 0**	26.98	0.61	2.07						
	Abdominal cramp							1	0.29	4.93 ± 0	4.93	0.08	0.28
	Muscle relaxant	16	4.69	2.78 ± 2.86	44.51	1.00	0.21	19	5.44	4.74 ± 0.81	90.05	1.45	0.27
	Pain control	3	0.88	19.80 ± 0	59.40	1.34	1.52	1	0.29	19.80 ± 0	19.8	0.32	1.11

Appendix D.17: Average cost per medicine item according to budget groups and ICD-10 codes (continue)

Budget group	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Functional	Anaphylactic shock / Shock	1	0.29	0.94 ± 0	0.94	0.02	0.07						
	Antihistamine for allergies	3	0.88	0.77 ± 1.15	2.32	0.05	0.06						
	Failed or difficult intubations	2	0.59	0.75 ± 0.43	1.49	0.03	0.06						
	Sedasation	34	9.97	0.57 ± 0.82	19.28	0.43	0.04	10	2.87	**0.46 ± 0.34**	4.57	0.07	0.03
	Total	**341**	**100**		**4447.48**	**100**		**349**	**100**		**6223.25**	**100**	
Gastrolyte	Diarrhoea, infective / food poisoning	34	2.52	7.87 ± 9.92	267.71	5.72	2.27	14	1.55	1.84 ± 2.53	25.76	0.80	0.52
	Tuberculosis	1	0.07	10.50 ± 0	10.50	0.22	3.03						
	Worm infections except tape worm	17	1.26	6.31 ± 0.66	107.20	2.29	1.82	12	1.33	7.50 ± 3.57	90.01	2.80	2.11
	Unspecified anemia	2	0.15	18.51 ± 23.69	37.02	0.79	5.34						
	Vitamin deficiency	772	57.23	0.82 ± 1.35	630.54	13.48	0.24	605	67.15	2.05 ± 4.39	1237.52	38.56	0.57
	Mineral deficiency	113	8.38	1.59 ± 2.52	179.37	3.83	0.46	53	5.88	2.68 ± 2.04	142.27	4.43	0.75
	Sodium & water disturbances	1	0.07	27.33 ± 0	27.33	0.58	7.88						
	Disorders of acid-base balance	97	7.19	10.75 ± 11.14	1043.14	22.30	3.10	61	6.77	**17.57 ± 11.98**	1071.69	33.39	4.93
	Other disorders of fluid & electrolyte balance	130	9.64	10.73 ± 12.49	1394.80	29.81	3.09	26	2.89	3.40 ± 6.03	88.52	2.76	0.96
	Panic disorder	3	0.22	9.13 ± 1.59	27.40	0.59	2.63						
	Inflammation							1	0.11	1.90 ± 0	1.9	0.06	0.53
	Haemorrhoids	6	0.44	7.74 ± 5.68	46.43	0.99	2.23	9	1.00	14.00 ± 0.22	125.96	3.92	3.93
	Dental abscess	7	0.52	0.80 ± 0.49	5.62	0.12	0.23	27	3.00	**1.21 ± 0.13**	32.62	1.02	0.34
	Constipation	25	1.85	6.01 ± 7.46	150.30	3.21	1.73	10	1.11	5.58 ± 2.77	55.78	1.74	1.57
	Abdominal cramps	26	1.93	3.65 ± 5.20	94.79	2.03	1.05	19	2.11	3.34 ± 4.20	63.5	1.98	0.94
	Abortion, complicated, therapeutic, legal	3	0.22	10.78 ± 6.26	32.35	0.69	3.11	16	1.78	12.85 ± 1.08	205.59	6.41	3.61
	Nausea	106	7.86	4.17 ± 6.29	442.46	9.46	1.20	48	5.33	1.43 ± 0.95	68.6	2.14	0.40
	Pain control	2	0.15	**0.61 ± 0.78**	1.22	0.03	0.18						
	Feeding supplement	1	0.07	7.30 ± 0	7.30	0.16	2.10						
	Unknown diagnose	3	0.22	**57.60 ± 62.35**	172.80	3.69	16.61						
	Total	**1349**	**100**		**4678.28**	100		**901**	**100**		**3209.72**	**100**	
Pain reliever	Undefined bacterial infection	1	0.08	1.86 ± 0	1.86	0.01	0.08						
	Malaria							1	0.07	**1.68 ± 0**	1.68	0.01	0.14
	Unspecified anemia							1	0.07	**14.90 ± 0**	14.9	0.08	1.21

Appendix D.17: Average cost per medicine item according to budget groups and ICD-10 codes (continue)

Budget group	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Pain reliever	Unspecified coagulation defects	81	6.85	0.88 ± 0.75	70.97	0.25	0.04	93	6.25	1.56 ± 0.35	144.75	0.79	0.13
	Inflammation	4	0.34	32.79 ± 55.12	131.17	0.46	1.36						
	Gout	5	0.42	19.95 ± 27.59	99.74	0.35	0.82	3	0.20	9.90 ± 3.24	29.71	0.16	0.80
	Pain control	1091	92.22	**25.95 ± 128.59**	28312.60	98.94	1.07	1389	93.41	13.07 ± 35.72	18150.01	98.96	1.06
	Unknown diagnose	1	0.08	**0.56 ± 0**	0.56	0.00	0.02						
	Total	**1182**	**100**		**28616.34**	**100**		**1487**	**100**		**18341.05**	**100**	
Immunological	Rabies							6	19.35	**324.37 ± 0**	1946.21	98.39	5.08
	Immunisation	10	100	**3.71 ± 6.17**	37.14	100	1.00	25	80.65	**1.27 ± 0.43**	31.83	1.61	0.02
	Total	**10**	**100**		**37.14**	**100**		**31**	**100**		**1978.04**	**100**	
Respiratory agents	Tuberculosis	146	46.06	**19.31 ± 20.27**	2819.49	72.98	1.58	34	10.93	**38.25 ± 12.09**	1300.51	38.05	3.48
	Sinusitis	1	0.32	2.35 ± 0	2.35	0.06	0.19	9	2.89	2.40 ± 0.15	21.62	0.63	0.22
	Allergic rhinitis							1	0.32	2.19 ± 0	2.19	0.06	0.20
	Asthma, acute OR asthma, chronic persistent	116	36.59	8.25 ± 12.22	957.45	24.78	0.68	128	41.16	14.05 ± 12.40	1798.7	52.63	1.28
	Cough	22	6.94	1.70 ± 0.72	37.49	0.97	0.14	48	15.43	2.27 ± 0.55	109.11	3.19	0.21
	Antihistamine for allergies	32	10.09	**1.46 ± 0.81**	46.77	1.21	0.12	91	29.26	**2.04 ± 0.79**	185.37	5.42	0.19
	Total	**317**	**100**		**3863.55**	**100**		**311**	**100**		**3417.5**	**100**	

* Percentage was calculated for budget groups according to the total number of medicine items dispenced to inpatients and outpatients respectively

** Percentage was calculated for budget groups according to the total cost for inpatients and outpatients respectively

Appendix D.18: Total cost of different budget groups

Budget group	Inpatients			Budget group	Outpatients		
	Rank	Cost (Rand)	%*		Rank	Cost (Rand)	%*
Anti-infective	1	59529.35	48.91	Anti-infective	1	54776.50	53.20
Pain reliever	2	28616.90	23.51	Pain reliever	2	18341.04	17.81
Cardiovascular agents	3	11815.60	9.71	Cardiovascular agents	3	10049.98	9.76
Endocrine	4	7922.33	6.51	Functional	4	6227.81	6.05
Gastrolyte	5	4678.28	3.84	Respiratory agents	5	3417.51	3.32
Functional	6	4447.00	3.65	Gastrolyte	6	3209.70	3.12
Respiratory agents	7	3863.55	3.17	Endocrine	7	3118.39	3.03
Dermatological	8	801.33	0.66	Immunological	8	1978.04	1.92
Immunological	9	37.14	0.03	Dermatological	9	1846.19	1.79
Total of all budget groups		**121711.94**	**100**	**Total of all budget groups**		**102965.16**	**100**

* Percentage was calculated for budget groups according to the total cost for inpatients and outpatients respectively

Appendix D.19: Average cost per medicine item according to pharmacological groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Antibacterial (penicillins)	861	13.69	38.02 ± 68.54	32735.43	**26.90**	1.96	348	6.35	13.64 ± 28.61	4746.85	4.61	0.73
Anti-infective (cephalosporins)	100	1.59	158.26 ± 252.37	15825.63	**13.00**	**8.18**	15	0.27	25.07 ± 28.42	376.00	0.37	1.33
Antibacterial (chloramphenicol, erythromycin)	553	8.79	2.90 ± 20.73	1602.24	1.32	0.15	456	8.32	8.34 ± 72.86	3804.45	3.69	0.44
Antiviral	206	3.28	45.11 ± 75.77	9293.36	**7.64**	2.33	520	9.49	87.90 ± 116.95	45708.45	**44.39**	**4.68**
Antifungal (oral/injection)	17	0.27	4.28 ± 5.32	72.70	0.06	0.22	6	0.11	5.32 ± 3.27	31.95	0.03	0.28
Cancer chemotherapy							12	0.22	9.07 ± 4.44	108.80	0.11	0.48
Anti-angina	9	0.14	1.43 ± 1.29	12.87	0.01	0.07	9	0.16	5.06 ± 2.99	45.52	0.04	0.27
Antihypertensive	466	7.41	12.73 ± 41.37	5932.94	4.87	0.66	439	8.01	19.44 ± 43.59	8534.61	**8.29**	1.03
Congestive heart failure drugs	17	0.27	2.89 ± 2.34	49.06	0.04	0.15	17	0.31	3.89 ± 1.11	66.13	0.06	0.21
Antithrombotic and anticoagulant	57	0.91	92.15 ± 364.65	5252.40	4.32	**4.76**	29	0.53	31.72 ± 36.81	919.88	0.89	1.69
Drugs affecting the blood	403	6.41	1.34 ± 3.98	541.52	0.44	0.07	85	1.55	5.23 ± 27.30	444.79	0.43	0.28
Hypolipidaemic agents	4	0.06	6.70 ± 6.95	26.81	0.02	0.35	5	0.09	7.81 ± 1.63	39.05	0.04	0.42
Antifungal (topical)	17	0.27	24.84 ± 19.78	422.29	0.35	1.28	24	0.44	12.53 ± 16.15	300.72	0.29	0.67
Antiseptic, antiviral, keratoplastic & keratolytic agents	5	0.08	38.04 ± 48.62	190.21	0.16	1.97	16	0.29	23.32 ± 12.96	373.19	0.36	1.24
Antipruritic & anti-inflammatory agents	18	0.29	1.80 ± 2.52	32.36	0.03	0.09	54	0.99	3.58 ± 6.92	193.28	0.19	0.19
Keratoplastic & keratolytic agents							1	0.02	18.23 ± 0	18.23	0.02	0.97
Scabicides & pediculocides	5	0.08	1.07 ± 0.46	5.34	0.00	0.06	10	0.18	2.40 ± 2.20	24.01	0.02	0.13
Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	10	0.16	2.27 ± 3.15	22.75	0.02	0.12	16	0.29	16.65 ± 61.96	266.36	0.26	0.89
Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	4	0.06	9.34 ± 8.80	37.37	0.03	0.48	2	0.04	9.34 ± 10.78	18.69	0.02	0.50
Eye preparations (anti-infective)	11	0.17	3.79 ± 4.68	41.73	0.03	0.20	22	0.40	14.40 ± 13.02	316.85	0.31	0.77

Appendix D.19: Average cost per medicine item according to pharmacological groups (continue)

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Eye preparations (local anesthetic)							1	0.02	60.00 ± 0	60.00	0.06	**3.19**
Eye preparations (anti-allergtic & anti-inflammatory including corticosteroid & decongestants)	1	0.02	4.73 ± 0	4.73	0.00	0.24	15	0.27	4.73 ± 0	70.92	0.07	0.25
Ear and nose preparations	11	0.17	3.53 ± 6.67	38.84	0.03	0.18	28	0.51	6.012 ± 7.26	171.32	0.17	0.33
Corticosteroids for topical use	2	0.03	2.85 ± 1.34	5.70	0.00	0.15	11	0.20	2.97 ± 2.96	32.63	0.03	0.16
Contraceptive (barrier method)	1	0.02	0	0.00	0.00	0.00						
Contraceptive (injectable)	1	0.02	113.92 ± 0	113.92	0.09	**5.89**	2	0.04	56.96 ± 0	113.92	0.11	**3.03**
Contraceptive (oral)	2	0.03	22.27 ± 3.52	44.54	0.04	1.15	1	0.02	19.37 ± 0	19.37	0.02	1.03
Hormone, androgen, oestrogen & progesterone	2	0.03	13.53 ± 1.60	27.06	0.02	0.70	10	0.18	16.46 ± 12.84	164.61	0.16	0.88
Antidiabetic agents (injection)	47	0.75	27.62 ± 32.66	1297.98	1.07	1.43	34	0.62	42.93 ± 47.89	1459.49	1.42	2.28
Antidiabetic agents (oral)	94	1.49	4.51 ± 4.18	424.19	0.35	0.23	62	1.13	8.16 ± 3.40	505.85	0.49	0.43
Antihypoglucaemic agents	3	0.05	1097.74 ± 914.63	3293.22	2.71	**56.71**						
Oxytoxins and other obstetric drugs	5	0.08	9.96 ± 2.47	49.82	0.04	0.51						
Thyroid and parathyroid preparations	10	0.16	5.22 ± 3.00	52.24	0.04	0.27						
Corticosteroids for systemic use (oral/injection)	145	2.31	18.06 ± 41.39	2619.36	2.15	0.93	151	2.76	5.66 ± 10.10	855.15	0.83	0.30
Anti-epileptic	115	1.83	21.05 ± 26.72	2420.69	1.99	1.09	181	3.30	22.71 ± 17.36	4110.29	3.99	1.21
Antiparkinsonism	7	0.11	22.86 ± 33.44	160.01	0.13	1.18	2	0.04	69.00 ± 0	138.00	0.13	**3.67**
Anti-allergic & anaphylaxis	1	0.02	0.94 ± 0	0.94	0.00	0.05						
Psychiatric disorder (schizophrenia)							4	0.07	12.72 ± 4.50	50.87	0.05	0.68
Psychotic disorder	65	1.03	10.42 ± 29.26	677.48	0.56	0.54	28	0.51	3.02 ± 1.51	84.51	0.08	0.16
Mood disorder	95	1.51	11.17 ± 13.42	1061.36	0.87	0.58	103	1.88	16.75 ± 8.70	1724.80	1.68	0.89
Hypnotic / sedative	39	0.62	0.59 ± 0.81	23.09	0.02	0.03	10	0.18	0.46 ± 0.34	4.57	0.00	0.02
Muscle relaxant (central & peripherally acting)	16	0.25	2.78 ± 2.86	44.51	0.04	0.14	20	0.36	4.75 ± 0.79	94.98	0.09	0.25

Appendix D.19: Average cost per medicine item according to pharmacological groups (continue)

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Antimigraine agent	3	0.05	19.80 ± 0	59.40	0.05	1.02	1	0.02	19.80 ± 0	19.80	0.02	1.05
Antihelmenthic	19	0.30	7.59 ± 6.81	144.23	0.12	0.39	12	0.22	7.50 ± 3.57	90.01	0.09	0.40
Antacid / anti-ulcer	111	1.77	11.22 ± 11.30	1245.96	1.02	0.58	78	1.42	16.82 ± 10.73	1311.60	1.27	0.89
Anti-emetic	108	1.72	4.31 ± 6.45	465.06	0.38	0.22	48	0.88	1.43 ± 0.95	68.60	0.07	0.08
Antihaemmorrhoidal	6	0.10	7.74 ± 5.68	46.43	0.04	0.40	9	0.16	14.00 ± 0.22	125.96	0.12	0.74
Cathartic drugs / laxative	17	0.27	7.49 ± 8.68	127.28	0.10	0.39	5	0.09	7.22 ± 4.22	36.08	0.04	0.38
Antidiarrhoea & ulcerative colitis	35	0.56	7.95 ± 9.79	278.21	0.23	0.41	15	0.27	1.77 ± 0.45	26.56	0.03	0.09
Antispasmodic & anticholinergic	24	0.38	3.01 ± 3.89	72.19	0.06	0.16	19	0.35	3.34 ± 4.20	63.50	0.06	0.18
Constipation, digestants, liver & bile preparations	41	0.65	1.04 ± 1.12	42.78	0.04	0.05	25	0.46	1.82 ± 2.13	45.43	0.04	0.10
Mouthwash & throat preparation	8	0.13	0.80 ± 0.49	5.62	0.00	0.04	27	0.49	1.21 ± 0.13	32.62	0.03	0.06
Electrolyte and acid-base disturbances (parenteral)	81	1.29	14.63 ± 13.01	1185.39	0.97	0.76	4	0.07	4.83 ± 4.42	19.31	0.02	0.26
Vitamin & mineral	880	13.99	0.89 ± 1.45	782.69	0.64	0.05	658	12.01	2.10 ± 4.25	1379.77	1.34	0.11
Feeding and nutritional supplements (oral)	7	0.11	4.06 ± 6.52	28.44	0.02	0.21						
Feeding and nutritional supplements (parenteral)	10	0.16	8.12 ± 3.54	81.21	0.07	0.42	1	0.02	10.25 ± 0	10.25	0.01	0.55
Other gastrolyte	3	0.05	57.60 ± 62.35	172.80	0.14	2.98						
Anesthetics (local)	4	0.06	14.90 ± 0	59.62	0.05	0.77	9	0.16	14.90 ± 0	134.14	0.13	0.79
Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	1110	17.65	25.13 ± 127.62	27895.35	22.92	1.30	1473	26.88	12.35 ± 34.80	18197.17	**17.67**	0.66
Analgesics (opioids) / narcotic analgesics	69	1.10	9.59 ± 10.57	661.94	0.54	0.50	4	0.07	2.02 ± 2.38	8.06	0.01	0.11
Antimalaria							1	0.02	1.68 ± 0	1.68	0.00	0.09
Sera & immunologicals							1	0.02	324.37 ± 0	324.37	0.32	**17.26**
Vaccines	10	0.16	3.71 ± 6.17	37.14	0.03	0.19	30	0.55	55.12 ± 122.47	1653.67	1.61	2.93
Anti-asthmatic & mucolytics	116	1.84	8.25 ± 12.22	957.45	0.79	0.43	128	2.34	14.05 ± 12.40	1798.70	1.75	0.75
Cough mixture	22	0.35	1.70 ± 0.72	37.49	0.03	0.09	48	0.88	2.27 ± 0.55	109.11	0.11	0.12
Antituberculosis	146	2.32	19.31 ± 20.27	2819.49	2.32	1.00	34	0.62	38.25 ± 12.09	1300.51	1.26	2.04

Appendix D.19: Average cost per medicine item according to pharmacological groups (continue)

Pharmacological group	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Decongestants (cold/flu)	1	0.02	2.35 ± 0	2.35	0.00	0.12	9	0.16	2.40 ± 0.15	21.62	0.02	0.13
Antihistamines for systemic use	32	0.51	1.46 ± 0.81	46.77	0.04	0.08	92	1.68	2.04 ± 0.78	187.56	0.18	0.11
Total	**6288**	**100**		**121711.98**	**100**		**5480**	**100**		**102965.17**	**100**	

* Percentage was calculated for pharmacological groups according to the total number of medicine items dispenced to inpatients and outpatients respectively

** Percentage was calculated for pharmacological groups according to total cost for inpatients and outpatients respectively

Appendix D.20: Average cost per medicine item according to pharmacological groups and gender

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Gender	Pharmacolgical group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Antibacterial (penicillins)	354	15.67	37.88 ± 69.21	13408.05	**30.34**	1.94	150	7.16	12.90 ± 25.49	1935.26	4.58	0.64
	Anti-infective (cephalosporins)	45	1.99	165.98 ± 241.65	7469.22	**16.90**	**8.48**	6	0.29	22.34 ± 23.56	134.05	0.32	1.11
	Antibacterial (chloramphenicol, erythromycin)	179	7.92	1.80 ± 2.53	322.67	0.73	0.09	147	7.01	5.70 ± 7.40	837.99	1.98	0.28
	Antiviral	42	1.86	61.45 ± 73.25	2580.95	**5.84**	**3.14**	168	8.02	116.56 ± 135.04	19581.63	**46.33**	**5.78**
	Antifungal (oral/injection)	4	0.18	2.59 ± 1.74	10.38	0.02	0.13	4	0.19	5.99 ± 4.00	23.96	0.06	0.30
	Anti-angina	2	0.09	0.86 ± 0.61	1.72	0.00	0.04	2	0.10	4.29 ± 0	8.59	0.02	0.21
	Antihypertensive	107	4.74	9.17 ± 23.02	981.31	2.22	0.47	132	6.30	14.61 ± 18.97	1928.15	4.56	0.72
	Congestive heart failure drugs	6	0.27	2.02 ± 1.75	12.14	0.03	0.10	5	0.24	3.79 ± 0.38	18.95	0.04	0.19
	Antithrombotic and anticoagulant	20	0.89	47.36 ± 33.10	947.29	2.14	2.42	6	0.29	18.33 ± 9.04	109.95	0.26	0.91
	Drugs affecting the blood	101	4.47	1.32 ± 3.98	133.16	0.30	0.07	24	1.15	3.53 ± 11.51	84.78	0.20	0.18
	Hypolipidaemic agents							5	0.24	7.81 ± 1.63	39.05	0.09	0.39
	Antifungal (topical)	7	0.31	20.95 ± 17.77	146.68	0.33	1.07	10	0.48	13.10 ± 17.80	130.96	0.31	0.65
	Antiseptic, antiviral, keratoplastic & keratolytic agents	5	0.22	38.04 ± 48.62	190.21	0.43	1.94	11	0.52	21.96 ± 12.08	241.56	0.57	1.09
	Antipruritic & anti-inflammatory	4	0.18	3.68 ± 5.15	14.72	0.03	0.19	15	0.72	2.18 ± 0.98	32.76	0.08	0.11
	Keratoplastic & keratolytic agents							1	0.05	18.23 ± 0	18.23	0.04	0.90
	Scabicides & pediculocides	4	0.18	1.02 ± 0.51	4.07	0.01	0.05	2	0.10	1.27 ± 0	2.54	0.01	0.06
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	2	0.09	6.95 ± 5.43	13.91	0.03	0.36	10	0.48	0.94 ± 0.09	9.42	0.02	0.05

Appendix D.20: Average cost per medicine item according to pharmacological groups and gender (continue)

Gender	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	4	0.18	9.34 ± 8.80	37.37	0.08	0.48	2	0.10	9.34 ± 10.78	18.69	0.04	0.46
	Eye preparations (anti-infective)	7	0.31	1.92 ± 0.63	13.44	0.03	0.10	16	0.76	14.18 ± 13.71	226.82	0.54	0.70
	Eye preparations (local anesthetic)							1	0.05	60.00 ± 0	60.00	0.14	2.98
	Eye preparations (anti-allergic & anti-inflammatory including corticosteroids & decongestants)							6	0.29	4.73 ± 0	28.37	0.07	0.23
	Ear and nose preparations	3	0.13	5.69 ± 9.79	17.08	0.04	0.29	10	0.48	7.85 ± 6.53	78.54	0.19	0.39
	Corticosteroids for topical use							4	0.19	4.36 ± 4.92	17.43	0.04	0.22
	Antidiabetic agents (injection)	6	0.27	38.04 ± 38.74	228.25	0.52	1.94	27	1.29	45.39 ± 51.33	1225.50	2.90	2.25
	Antidiabetic agents (oral)	26	1.15	4.56 ± 4.20	118.48	0.27	0.23	10	0.48	10.86 ± 1.77	108.59	0.26	0.54
	Corticosteroids for systemic use (oral/injection)	45	1.99	11.35 ± 15.96	510.90	1.16	0.58	60	2.86	8.20 ± 14.12	491.87	1.16	0.41
	Anti-epileptic	57	2.52	17.74 ± 25.18	1011.18	2.29	0.91	91	4.34	25.51 ± 18.41	2321.80	**5.49**	1.27
	Psychiatric disorder (schizophrenia)							3	0.14	14.02 ± 4.50	42.05	0.10	0.70
	Psycotic disorder	21	0.93	20.44 ± 44.64	429.33	0.97	1.04	9	0.43	4.52 ± 1.43	40.67	0.10	0.22
	Mood disorders	18	0.80	11.14 ± 19.62	200.55	0.45	0.57	25	1.19	18.52 ± 8.22	462.95	1.10	0.92
	Hypnotic / sedative	22	0.97	0.54 ± 0.66	11.93	0.03	0.03	5	0.24	0.50 ± 0.35	2.51	0.01	0.02
	Muscle relaxant (central & peripherally acting)	3	0.13	4.98 ± 4.84	14.95	0.03	0.25	12	0.57	4.63 ± 1.02	55.58	0.13	0.23
	Antimigraine agent	2	0.09	19.80 ± 0	39.60	0.09	1.01						
	Antihelmenthic	9	0.40	6.78 ± 0.53	61.04	0.14	0.35	6	0.29	9.16 ± 4.63	54.98	0.13	0.45
	Antacid / anti-ulcer	38	1.68	9.44 ± 10.82	358.85	0.81	0.48	27	1.29	15.86 ± 11.55	428.19	1.01	0.79
	Anti-emetic	31	1.37	3.54 ± 5.32	109.75	0.25	0.18	14	0.67	1.65 ± 1.16	23.16	0.05	0.08
	Antihaemmorrhoidal	3	0.13	9.85 ± 7.31	29.55	0.07	0.50	5	0.24	13.94 ± 0.30	69.68	0.16	0.69
	Cathartic drugs / laxative	5	0.22	6.19 ± 9.57	30.95	0.07	0.32	2	0.10	6.20 ± 5.02	12.39	0.03	0.31

Appendix D.20: Average cost per medicine item according to pharmacological groups and gender (continue)

Gender	Pharmacolgical group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Antidiarrhoea & ulcerative colitis	15	0.66	12.44 ± 11.38	186.61	0.42	0.64	3	0.14	1.11 ± 0.51	3.34	0.01	0.06
	Antispasmodic & anticholinergic	1	0.04	1.12 ± 0	1.12	0.00	0.06	6	0.29	2.34 ± 1.41	14.05	0.03	0.12
	Constipation, digestants, liver & bile preparations	19	0.84	0.98 ± 1.07	18.58	0.04	0.05	10	0.48	1.86 ± 1.81	18.60	0.04	0.09
	Mouthwash & throat preparations	6	0.27	0.74 ± 0.50	4.44	0.01	0.04	8	0.38	1.27 ± 0.23	10.13	0.02	0.06
	Electrolyte and acid-base disturbances (parenteral)	39	1.73	14.47 ± 14.38	564.18	1.28	0.74						
	Vitamin & mineral	286	12.66	0.96 ± 1.68	273.54	0.62	0.05	257	12.26	1.64 ± 2.37	422.72	1.00	0.08
	Feeding and nutritional supplements (oral)	1	0.04	3.50 ± 0	3.50	0.01	0.18						
	Feeding and nutritional supplements (parenteral)	6	0.27	9.12 ± 4.20	54.74	0.12	0.47	1	0.05	10.25 ± 0	10.25	0.02	0.51
	Others gastrolytes	2	0.09	21.60 ± 0	43.20	0.10	1.10						
	Anesthetics (local)	3	0.13	14.90 ± 0	44.71	0.10	0.76	5	0.24	14.90 ± 0	74.52	0.18	0.74
	Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	518	22.93	22.02 ± 108.57	11404.89	**25.80**	1.13	642	30.63	12.53 ± 33.43	8046.71	**19.04**	0.62
	Analgesics (opioids) / narcotic analgesics	32	1.42	9.70 ± 11.16	310.37	0.70	0.50	4	0.19	2.02 ± 2.38	8.06	0.02	0.10
	Sera & immunologicals							1	0.05	324.37 ± 0	324.37	0.77	**16.09**
	Vaccines	8	0.35	4.24 ± 6.88	33.95	0.08	0.22	24	1.15	68.55 ± 134.06	1645.18	3.89	**3.40**
	Anti-asthmatic & mucolytics	61	2.70	9.81 ± 13.73	598.38	1.35	0.50	42	2.00	9.30 ± 9.82	390.77	0.92	0.46
	Cough mixture	7	0.31	1.86 ± 0.92	13.01	0.03	0.09	17	0.81	2.08 ± 0.36	35.36	0.08	0.10
	Antituberculosis	62	2.74	18.75 ± 20.61	1162.79	2.63	0.96	9	0.43	31.37 ± 19.34	282.36	0.67	1.56
	Decongestants (cold/flu)	1	0.04	2.35 ± 0	2.35	0.01	0.12	3	0.14	2.51 ± 0.27	7.52	0.02	0.12
	Antihistamines for systemic use	10	0.44	1.77 ± 0.48	17.66	0.04	0.09	31	1.48	2.05 ± 0.71	63.70	0.15	0.10
	Totaal	**2259**	**100**		**44197.70**	**100**		**2096**	**100**		**42265.24**	**100**	
Female	Antibacterial (penicillins)	507	12.43	38.12 ± 68.13	19327.38	**24.93**	2.01	198	5.85	14.20 ± 30.81	2811.59	4.63	0.79

Appendix D.20: Average cost per medicine item according to pharmacological groups and gender (continue)

Gender	Pharmacolgical group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Anti-infective (cephalosporins)	55	1.35	151.93 ± 262.86	8356.40	**10.78**	**7.99**	9	0.27	26.88 ± 32.52	241.94	0.40	1.50
	Antibacterial (chloramphenicol, erythromycin)	374	9.17	3.42 ± 25.14	1279.57	1.65	0.18	309	9.13	9.60 ± 88.38	2966.46	4.89	0.54
	Antiviral	164	4.02	40.93 ± 76.05	6712.41	**8.66**	2.15	352	10.40	74.22 ± 104.72	26126.81	**43.04**	**4.14**
	Antifungal (oral/injection)	13	0.32	4.79 ± 5.98	62.33	0.08	0.25	2	0.06	3.99 ± 0	7.98	0.01	0.22
	Cancer chemotherapy							12	0.35	9.07 ± 4.44	108.80	0.18	0.51
	Anti-angina	7	0.17	1.59 ± 1.42	11.16	0.01	0.08	7	0.21	5.28 ± 3.41	36.93	0.06	0.29
	Antihypertensive	359	8.80	13.79 ± 45.40	4951.63	**6.39**	0.73	307	9.07	21.52 ± 50.51	6606.46	**10.88**	1.20
	Congestive heart failure drugs	11	0.27	3.36 ± 2.55	36.91	0.05	0.18	12	0.35	3.93 ± 1.31	47.18	0.08	0.22
	Antithrombotic and anticoagulant	37	0.91	116.35 ± 452.27	4305.11	**5.55**	**6.12**	23	0.68	35.21 ± 40.54	809.93	1.33	1.96
	Drugs affecting the blood	302	7.41	1.35 ± 3.98	408.36	0.53	0.07	61	1.80	5.90 ± 31.48	360.01	0.59	0.33
	Hypolipidaemic agents	4	0.10	6.70 ± 6.95	26.81	0.03	0.35						
	Antifungal (topical)	10	0.25	27.56 ± 21.56	275.62	0.36	1.45	14	0.41	12.13 ± 15.55	169.76	0.28	0.68
	Antiseptic, antiviral, keratoplastic & keratolytic agents							5	0.15	26.33 ± 15.77	131.63	0.22	1.47
	Antipruritic & anti-inflammatory	14	0.34	1.26 ± 0.90	17.64	0.02	0.07	39	1.15	4.12 ± 8.09	160.52	0.26	0.23
	Scabicides & pediculocides	1	0.02	1.27 ± 0	1.27	0.00	0.07	8	0.24	2.68 ± 2.40	21.47	0.04	0.15
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	8	0.20	1.11 ± 0.86	8.84	0.01	0.06	6	0.18	42.82 ± 101.01	256.94	0.42	2.39
	Eye preparations (anti-infective)	4	0.10	7.07 ± 7.06	28.29	0.04	0.37	6	0.18	15.01 ± 12.16	90.03	0.15	0.84
	Eye preparations (anti-allergic & anti-inflammatory including corticosteroids & decongestants)	1	0.02	4.73 ± 0	4.73	0.01	0.25	9	0.27	4.73 ± 0	42.55	0.07	0.26
	Ear and nose preparations	8	0.20	2.72 ± 5.78	21.76	0.03	0.14	18	0.53	5.15 ± 7.64	92.78	0.15	0.29

Appendix D.20: Average cost per medicine item according to pharmacological groups and gender (continue)

Gender	Pharmacolgical group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Corticosteroids for topical use	2	0.05	2.85 ± 1.34	5.70	0.01	0.15	7	0.21	2.17 ± 0.72	15.20	0.03	0.12
	Contraceptive (barrier method)	1	0.02	0	0.00	0.00	0.00						
	Contraceptive (injectable)	1	0.02	113.92 ± 0	113.92	0.15	**5.99**	2	0.06	56.96 ± 0	113.92	0.19	**3.18**
	Contraceptive (oral)	2	0.05	22.27 ± 3.52	44.54	0.06	1.17	1	0.03	19.37 ± 0	19.37	0.03	1.08
	Hormone, androgen, oestrogen & progesterone	2	0.05	13.53 ± 1.60	27.06	0.03	0.71	10	0.30	16.46 ± 12.84	164.61	0.27	0.92
	Antidiabetic agents (injection)	41	1.01	26.09 ± 31.94	1069.74	1.38	1.37	7	0.21	33.43 ± 32.60	233.99	0.39	1.86
	Antidiabetic agents (oral)	68	1.67	4.50 ± 4.21	305.71	0.39	0.24	52	1.54	7.64 ± 3.40	397.26	0.65	0.43
	Antihypoglucaemic agents	3	0.07	097.74 ± 914.63	3293.22	4.25	**57.75**						
	Oxytoxins and other obstetric drugs	5	0.12	9.96 ± 2.47	49.82	0.06	0.52						
	Thyroid and parathyroid preparations	10	0.25	5.22 ± 3.00	52.24	0.07	0.27						
	Corticosteroids for systemic use (oral/injection)	100	2.45	21.08 ± 48.47	2108.46	2.72	1.11	91	2.69	3.99 ± 5.68	363.28	0.60	0.22
	Anti-epileptic	58	1.42	24.30 ± 27.98	1409.51	1.82	1.28	90	2.66	19.87 ± 15.84	1788.49	2.95	1.11
	Antiparkinsonism	7	0.17	22.86 ± 33.44	160.01	0.21	1.20	2	0.06	69.00 ± 0	138.00	0.23	**3.85**
	Anti-allergics & anaphylaxis	1	0.02	0.94 ± 0	0.94	0.00	0.05						
	Psychiatric disorder (Schizophrenia)							1	0.03	8.82 ± 0	8.82	0.01	0.49
	Psycotic disorder	44	1.08	5.64 ± 16.58	248.14	0.32	0.30	19	0.56	2.31 ± 0.92	43.85	0.07	0.13
	Mood disorder	77	1.89	11.18 ± 11.69	860.81	1.11	0.59	78	2.30	16.18 ± 8.82	1261.86	2.08	0.90
	Hypnotic / sedative	17	0.42	0.66 ± 0.99	11.16	0.01	0.03	5	0.15	0.41 ± 0.36	2.06	0.00	0.02
	Muscle relaxant (central & peripherally acting)	13	0.32	2.27 ± 2.20	29.56	0.04	0.12	8	0.24	4.93 ± 0	39.40	0.06	0.27
	Antimigraine agent	1	0.02	19.80 ± 0	19.80	0.03	1.04	1	0.03	19.80 ± 0	19.80	0.03	1.10
	Antihelmenthic	10	0.25	8.32 ± 9.55	83.19	0.11	0.44	6	0.18	5.84 ± 0	35.03	0.06	0.33
	Antacid / anti-ulcer	73	1.79	12.15 ± 11.50	887.12	1.14	0.64	51	1.51	17.32 ± 10.35	883.41	1.46	0.97
	Anti-emetic	77	1.89	4.61 ± 6.86	355.32	0.46	0.24	34	1.00	1.34 ± 0.85	45.44	0.07	0.07
	Antihaemmorrhoidal	3	0.07	5.63 ± 3.72	16.88	0.02	0.30	4	0.12	14.07 ± 0	56.28	0.09	0.78

Appendix D.20: Average cost per medicine item according to pharmacological groups and gender (continue)

Gender	Pharmacolgical group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Cathartic drugs / laxative	12	0.29	8.03 ± 8.67	96.33	0.12	0.42	3	0.09	7.90 ± 4.61	23.69	0.04	0.44
	Antidiarrhoea & ulcerative colitis	20	0.49	4.58 ± 6.94	91.60	0.12	0.24	12	0.35	1.94 ± 2.73	23.22	0.04	0.11
	Antispasmodic & anticholinergic	23	0.56	3.09 ± 3.96	71.07	0.09	0.16	13	0.38	3.80 ± 4.99	49.45	0.08	0.21
	Constipation, digestants, liver & bile preparations	22	0.54	1.10 ± 1.18	24.21	0.03	0.06	15	0.44	1.79 ± 2.38	26.83	0.04	0.10
	Mouthwash & throat preparations	1	0.02	1.18 ± 0	1.18	0.00	0.06	19	0.56	1.18 ± 0	22.50	0.04	0.07
	Electrolyte and acid-base distrubances (parenteral)	42	1.03	14.79 ± 11.77	621.21	0.80	0.78	4	0.12	4.83 ± 4.42	19.31	0.03	0.27
	Vitamin & mineral	594	14.57	0.86 ± 1.33	509.14	0.66	0.05	401	11.85	2.39 ± 5.09	957.05	1.58	0.13
	Feeding and nutritional supplements (oral)	6	0.15	4.16 ± 7.14	24.94	0.03	0.22						
	Feeding and nutritional supplements (parenteral)	4	0.10	6.62 ± 1.76	26.46	0.03	0.35						
	Other gastrolytes	1	0.02	129.60 ± 0	129.60	0.17	**6.82**						
	Anesthetics (local)	1	0.02	14.90 ± 0	14.90	0.02	0.78	4	0.12	14.90 ± 0	59.62	0.10	0.83
	Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	592	14.52	27.86 ± 142.24	16490.45	**21.27**	1.47	831	24.56	12.21 ± 35.83	10150.46	**16.72**	0.68
	Analgesics (opioids) / narcotic analgesics	37	0.91	9.50 ± 10.18	351.57	0.45	0.50						
	Antimalaria							1	0.03	1.68 ± 0	1.68	0.00	0.09
	Vaccines	2	0.05	1.59 ± 0.75	3.18	0.00	0.08	6	0.18	1.41 ± 0.55	8.49	0.01	0.08
	Anti-asthmatic & mucolytics	55	1.35	6.53 ± 10.14	359.07	0.46	0.34	86	2.54	16.37 ± 12.91	1407.94	2.32	0.91
	Cough mixture	15	0.37	1.63 ± 0.63	24.49	0.03	0.09	31	0.92	2.38 ± 0.60	73.75	0.12	0.13
	Antituberculosis	84	2.06	19.72 ± 20.12	1656.70	2.14	1.04	25	0.74	40.73 ± 7.22	1018.16	1.68	2.27
	Decongestants (cold/flu)							6	0.18	2.35 ± 0	14.11	0.02	0.13
	Antihistamines for systemic use	22	0.54	1.32 ± 0.90	29.12	0.04	0.07	61	1.80	2.03 ± 0.82	123.86	0.20	0.11
	Total	**4028**	**99**		**77514.29**	**100**		**3384**	**100**		**60699.96**	**100**	

Appendix D.20: Average cost per medicine item according to pharmacological groups and gender (continue)

Gender	Pharmacolgical group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	

* Percentage was calculated for pharmacological groups according to the total number of medicine items dispenced to male and female patients respectively

** Percentage was calculated for pharmacological groups according to the total cost for male and female patients respectively

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>0≤6	Antibacterial (penicillins)	250	22.89	7.49 ± 11.90	1873.29	**14.14**	0.62	36	12.54	5.74 ± 6.31	206.66	**7.78**	0.62
	Anti-infective (cephalosporins)	37	3.39	199.79 ± 223.61	7392.13	**55.81**	**16.47**	3	1.05	59.08 ± 43.16	177.24	**6.67**	**6.38**
	Antibacterial (chloramphenicol, erythromycin)	113	10.35	1.46 ± 2.53	164.89	1.24	0.12	34	11.85	5.07 ± 4.87	172.25	**6.48**	0.55
	Antiviral	21	1.92	62.18 ± 8.09	1305.74	**9.86**	**5.13**	12	4.18	104.72 ± 80.78	1256.63	**47.29**	**11.31**
	Antifungal (oral/injection)	5	0.46	3.47 ± 3.33	17.36	0.13	0.29	2	0.70	7.99 ± 5.66	15.98	0.60	0.86
	Antihypertensive	2	0.18	3.42 ± 2.09	6.83	0.05	0.28	1	0.35	9.84 ± 0	9.84	0.37	1.06
	Drugs affecting the blood	100	9.16	1.39 ± 3.21	139.26	1.05	0.11	9	3.14	7.05 ± 18.91	63.46	2.39	0.76
	Antifungal (topical)	2	0.18	45.28 ± 0.06	90.56	0.68	**3.73**	2	0.70	2.55 ± 0	5.10	0.19	0.28
	Antiseptic, antiviral, keratoplastic & keratolytic agents							1	0.35	21.05 ± 0	21.05	0.79	2.27
	Antipruritic & anti-inflammatory agents							2	0.70	3.45 ± 0	6.89	0.26	0.37
	Scabicides & pediculocides	2	0.18	1.27 ± 0	2.54	0.02	0.10	1	0.35	1.27 ± 0	1.27	0.05	0.14
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	2	0.18	2.07 ± 1.48	4.13	0.03	0.17	2	0.70	0.92 ± 0.13	1.85	0.07	0.10
	Eye preparations (anti infective)	1	0.09	3.36 ± 0	3.36	0.03	0.28	3	1.05	1.60 ± 0.14	4.80	0.18	0.17

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>0≤6	Ear and nose preparations	3	0.27	5.69 ± 9.79	17.08	0.13	0.47	5	1.74	3.67 ± 2.07	18.37	0.69	0.40
	Corticosteroids for topical use							1	0.35	1.90 ± 0	1.90	0.07	0.21
	Hormone, androgen, oestrogen & progesterone							1	0.35	53.00 ± 0	53.00	1.99	**5.72**
	Corticosteroids for systemic use (oral/injection)	22	2.01	14.71 ± 19.13	323.57	2.44	1.21	3	1.05	13.92 ± 10.25	41.75	1.57	1.50
	Anti-epileptic	10	0.92	19.91 ± 29.93	199.06	1.50	1.64	3	1.05	57.91 ± 33.56	173.73	**6.54**	**6.25**
	Anti-allergics & anaphylaxis	1	0.09	0.94 ± 0	0.94	0.01	0.08						
	Mood disorder	1	0.09	23.26 ± 0	23.26	0.18	1.92						
	Hypnotic / sedative	4	0.37	0.75 ± 1.18	2.98	0.02	0.06	1	0.35	0.53 ± 0	0.53	0.02	0.06
	Antihelmenthic	12	1.10	8.51 ± 8.56	102.14	0.77	0.70	1	0.35	7.05 ± 0	7.05	0.27	0.76
	Anti-emetic	4	0.37	1.05 ± 0.99	4.19	0.03	0.09	3	1.05	2.41 ± 0	7.23	0.27	0.26
	Antidiarrhoea & ulcerative colitis	19	1.74	14.05 ± 9.71	266.92	2.02	1.16						
	Antispasmodics & anticholinergics	1	0.09	19.99 ± 0	19.99	0.15	1.65	2	0.70	11.13 ± 12.53	22.26	0.84	1.20
	Constipation, digestants, liver & bile preparations	26	2.38	0.70 ± 0.78	18.11	0.14	0.06	7	2.44	0.87 ± 0.65	6.08	0.23	0.09
	Mouthwash & throat preparation							1	0.35	1.18 ± 0	1.18	0.04	0.13
	Electrolyte and acid-base disturbances (parenteral)	6	0.55	14.58 ± 9.16	87.47	0.66	1.20						
	Vitamin & mineral	216	19.78	0.86 ± 1.46	185.33	1.40	0.07	51	17.77	1.33 ± 0.57	67.84	2.55	0.14

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>0≤6	Feeding and nutritional supplements (oral)	1	0.09	3.50 ± 0	3.50	0.03	0.29						
	Feeding and nutritional supplements	1	0.09	4.00 ± 0	4.00	0.03	0.33						
	Analgesics, non opioids including NSAIMs, gold and antigout preparations	125	11.45	1.43 ± 1.01	178.33	1.35	0.12	66	23.00	2.54 ± 1.35	167.77	**6.31**	0.27
	Analgesics (opioids) / narcotic analgesics							1	0.35	1.00 ± 0	1.00	0.04	0.11
	Vaccines	1	0.09	2.12 ± 0	2.12	0.02	0.17						
	Anti-asthmatic & mucolytics	45	4.12	7.68 ± 13.97	345.39	2.61	0.63	11	3.83	9.02 ± 11.69	99.17	3.73	0.97
	Cough mixture	6	0.55	1.40 ± 0.55	8.38	0.06	0.12	13	4.53	1.71 ± 0	22.22	0.84	0.18
	Antituberculosis	49	4.49	9.18 ± 11.39	449.74	3.40	0.76	2	0.70	6.67 ± 0	13.34	0.50	0.72
	Antihistamines for systemic use	4	0.37	0.93 ± 0.53	3.72	0.03	0.08	7	2.44	1.41 ± 0.11	9.90	0.37	0.15
	Total	**1092**	**100**		**13246.31**	**100**		**287**	**100**		**2657.34**	**100**	
>6≤12	Antibacterial (penicillins)	31	10.47	29.37 ± 63.29	910.43	**16.33**	1.56	20	8.85	4.37 ± 4.19	87.34	1.05	0.12
	Anti-infective (cephalosporins)	6	2.03	32.49 ± 20.65	194.94	3.50	1.73						
	Antibacterial (chloramphenicol, erythromycin)	25	8.45	3.37 ± 2.90	84.24	1.51	0.18	22	9.73	5.70 ± 8.61	125.39	1.51	0.16
	Antiviral	34	11.49	56.57 ± 125.17	1923.50	**34.51**	**3.00**	43	19.03	167.11 ± 231.87	7185.92	**86.55**	**4.55**
	Antifungal (oral/injection)	1	0.34	3.99 ± 0	3.99	0.07	0.21	1	0.44	3.99 ± 0	3.99	0.05	0.11
	Antihypertensive	45	15.20	42.84 ± 96.12	1928.01	**34.59**	2.28						

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>6≤12	Drugs affecting the blood	19	6.42	1.38 ± 4.54	26.22	0.47	0.07	1	0.44	1.16 ± 0	1.16	0.01	0.03
	Antifungal (topical)							2	0.88	29.61 ± 14.59	59.23	0.71	0.81
	Antipruritic & anti-inflammatory agents	1	0.34	1.22 ± 0	1.22	0.02	0.06						
	Scabicides & pediculocides	3	1.01	0.93 ± 0.59	2.80	0.05	0.05						
	Eye preparations (anti-infective)	1	0.34	1.01 ± 0	1.01	0.02	0.05	1	0.44	1.68 ± 0	1.68	0.02	0.05
	Eye preparations (anti-allergic & anti-inflammatory including corticosteroids & decongestants)							2	0.88	4.73 ± 0	9.46	0.11	0.13
	Ear and nose preparations	7	2.36	0.68 ± 0.27	4.76	0.09	0.04	3	1.33	7.50 ± 8.23	22.50	0.27	0.20
	Corticosteroids for systemic use (oral/injection)	13	4.39	1.86 ± 1.01	24.17	0.43	0.10	5	2.21	2.96 ± 3.05	14.78	0.18	0.08
	Anti-epileptic	9	3.04	21.37 ± 36.41	192.37	3.45	1.14	11	4.87	31.32 ± 24.34	344.51	4.15	0.85
	Hypnotic / sedative	1	0.34	1.05 ± 0	1.05	0.02	0.06	1	0.44	0.53 ± 0	0.53	0.01	0.01
	Antihelmenthic	2	0.68	6.45 ± 0.86	12.89	0.23	0.34	4	1.77	6.14 ± 0.61	24.57	0.30	0.17
	Antacid / anti-ulcer							1	0.44	27.33 ± 0	27.33	0.33	0.74
	Anti-emetic	2	0.68	7.46 ± 7.53	14.91	0.27	0.40						
	Antidiarrhoea & ulcerative colitis	1	0.34	3.68 ± 0	3.68	0.07	0.20	3	1.33	43.07 ± 5.57	12.20	0.15	0.11
	Constipation, digestants, liver & bile preparations	2	0.68	0.76 ± 0	1.52	0.03	0.04	2	0.88	0.76 ± 0	1.52	0.02	0.02
	Mouthwash & throat preparation	1	0.34	0.53 ± 0	0.53	0.01	0.03	1	0.44	1.18 ± 0	1.18	0.01	0.03

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>6≤12	Electrolyte and acid-base disturbances (parenteral)	2	0.68	34.62 ± 0	69.24	1.24	1.84						
	Vitamin & mineral	38	12.84	1.03 ± 0.72	39.00	0.70	0.05	32	14.16	2.96 ± 3.77	94.81	1.14	0.08
	Feeding and nutritional supplements (oral)	6	2.03	4.16 ± 7.14	24.94	0.45	0.22						
	Feeding and nutritional supplements	1	0.34	7.30 ± 0	7.30	0.13	0.39						
	Analgesics, non opioids including NSAIMs, gold and antigout preparations	40	13.51	1.80 ± 1.65	72.08	1.29	0.10	45	19.91	2.51 ± 2.00	113.02	1.36	0.07
	Analgesics (opoids) / narcotic analgesics							1	0.44	0.50 ± 0	0.50	0.01	0.01
	Sera & immunological	1	0.34	1.06 ± 0	1.06	0.02	0.06						
	Vaccines							1	0.44	1.06 ± 0	1.06	0.01	0.03
	Anti-asthmatic & mucolytic							11	4.87	13.37 ± 10.36	147.02	1.77	0.36
	Cough mixture	1	0.34	1.71 ± 0	1.71	0.03	0.09	5	2.21	1.99 ± 0.38	9.95	0.12	0.05
	Antituberculosis	2	0.68	12.39 ± 9.43	24.78	0.44	0.66						
	Decongestants (cold/flu)							1	0.44	2.35 ± 0	2.35	0.03	0.06
	Antihistamines for systemic use	1	0.34	1.46 ± 0	1.46	0.03	0.08	7	3.10	1.56 ± 0.28	10.93	0.13	0.04
	Total	**296**	**100**		**5573.81**	**100**		**226**	**100**		**8302.93**	**100**	
>12≤19	Antibacterial (penicillins)	31	14.98	54.53 ± 115.96	1690.50	**41.35**	2.76	18	11.46	19.85 ± 59.65	357.36	**21.57**	1.88
	Anti-infective (cephalosporins)	6	2.90	220.11 ± 309.96	1320.64	**32.30**	**11.14**						

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>12≤19	Antibacterial (chloramphenicol, erythromycin)	17	8.21	0.62 ± 0.52	10.50	0.26	0.03	13	8.28	3.81 ± 8.95	49.57	2.99	0.36
	Antiviral							2	1.27	5.92 ± 2.30	11.84	0.71	0.56
	Antihypertensive	4	1.93	1.49 ± 0.97	5.98	0.15	0.08						
	Antithrombotic and anticoagulant	4	1.93	89.49 ± 97.04	357.98	**8.76**	**4.53**	2	1.27	31.18 ± 10.05	62.37	3.76	2.96
	Drugs affecting the blood	20	9.66	0.77 ± 0.57	15.48	0.38	0.04						
	Antifungal (topical)							1	0.64	16.53 ± 0	16.53	1.00	1.57
	Antipruritic & anti-inflammatory agents	1	0.48	11.40 ± 0	11.40	0.28	0.58						
	Scabicides & pediculocides							4	2.55	2.57 ± 2.59	10.27	0.62	0.24
	Ear and nose preparations							2	1.27	2.75 ± 0	5.50	0.33	0.26
	Contraceptive (oral)	1	0.48	24.76 ± 0	24.76	0.61	1.25	1	0.64	19.37 ± 0	19.37	1.17	1.84
	Oxytoxins and other obstetric drugs	2	0.97	10.68 ± 1.00	21.35	0.52	0.54						
	Corticosteroids for systemic use (oral/injection)	4	1.93	0.91 ± 0.80	3.65	0.09	0.05	2	1.27	2.09 ± 0	4.17	0.25	0.20
	Anti-epileptic	3	1.45	18.71 ± 14.32	56.14	1.37	0.95	1	0.64	20.37 ± 0	20.37	1.23	1.93
	Antiparkinsonism	3	1.45	9.18 ± 2.28	27.53	0.67	0.46						
	Psycotic disorder	4	1.93	0.34 ± 0.46	1.36	0.03	0.02						
	Mood disorder	2	0.97	3.09 ± 0.80	6.17	0.15	0.16	1	0.64	2.52 ± 0	2.52	0.15	0.24
	Muscle relaxant (central & peripherally acting)	2	0.97	2.73 ± 3.10	5.47	0.13	0.14						
	Antimigraine agents	1	0.48	19.80 ± 0	19.80	0.48	1.00						
	Antacid / anti-ulcer	5	2.42	6.94 ± 11.55	34.72	0.85	0.35	1	0.64	27.33 ± 0	27.33	1.65	2.59
	Anti-emetic	8	3.86	1.46 ± 1.41	11.70	0.29	0.07	2	1.27	1.71 ± 0.59	3.43	0.21	0.16

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>12≤19	Cathartic drug / laxative							1	0.64	11.30 ± 0	11.30	0.68	1.07
	Antispasmodics & anticholinergics							1	0.64	1.50 ± 0	1.50	0.09	0.14
	Mouthwash & throat preparations							3	1.91	1.18 ± 0	3.55	0.21	0.11
	Electrolyte and acid-base disturbances (parenteral)	2	0.97	10.05 ± 0	20.11	0.49	0.51						
	Vitamin & mineral	23	11.11	0.55 ± 0.57	12.61	0.31	0.03	8	5.10	1.11 ± 0.92	8.86	0.53	0.10
	Analgesics, non opioids including NSAIMs, gold and antigout preparations	59	28.50	7.11 ± 25.32	419.37	**10.26**	0.36	78	49.68	11.48 ± 32.89	895.70	**54.06**	1.09
	Analgesics (opioids) / narcotic analgesics	1	0.48	4.00 ± 0	4.00	0.10	0.20						
	Vaccines	1	0.48	2.12 ± 0	2.12	0.05	0.11	3	1.91	1.06 ± 0	3.18	0.19	0.10
	Anti-asthmatic & mucolytics							7	4.46	19.49 ± 14.84	136.40	**8.23**	1.85
	Cough mixture	1	0.48	1.45 ± 0	1.45	0.04	0.07						
	Decongestants (cold/flu)	1	0.48	2.35 ± 0	2.35	0.06	0.12						
	Antihistamines for systemic use	1	0.48	1.46 ± 0	1.46	0.04	0.07	6	3.82	0.96 ± 0.68	5.73	0.35	0.09
	Total	**207**	**100**		**4088.60**	**100**		**157**	**100**		**1656.85**	**100**	
>19≤40	Antibacterial (penicillins)	295	14.07	52.17 ± 71.00	15391.59	**30.54**	2.17	158	7.89	15.88 ± 29.39	2509.47	**7.19**	0.91
	Anti-infective (cephalosporins)	39	1.86	160.61 ± 308.89	6263.89	**12.43**	**6.68**	7	0.35	20.77 ± 21.87	145.37	0.42	1.19
	Antibacterial (chloramphenicol, erythromycin)	231	11.02	2.02 ± 2.90	466.89	0.93	0.08	216	10.79	11.82 ± 105.61	2552.36	**7.31**	0.68

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>19≤40	Antiviral	86	4.10	45.00 ± 62.63	3869.58	**7.68**	1.87	252	12.59	62.36 ± 79.86	15714.44	**45.01**	**3.58**
	Antifungal (oral/injection)	5	0.24	8.35 ± 8.18	41.77	0.08	0.35	1	0.05	3.99 ± 0	3.99	0.01	0.23
	Anti-angina	3	0.14	2.00 ± 2.03	6.01	0.01	0.08	2	0.10	4.29 ± 0	5.59	0.02	0.16
	Antihypertensive	52	2.48	12.19 ± 33.80	633.96	1.26	0.51	11	0.55	36.36 ± 23.87	399.91	1.15	2.08
	Antithrombotic and anticoagulant	13	0.62	44.17 ± 64.98	574.27	1.14	1.84	3	0.15	72.08 ± 77.58	216.23	0.62	**4.13**
	Drugs affecting the blood	167	7.97	0.91 ± 1.07	151.61	0.30	0.04	51	2.55	6.55 ± 34.43	333.93	0.96	0.38
	Antifungal (topical)	8	0.38	35.75 ± 16.24	285.97	0.57	1.49	10	0.50	9.89 ± 13.98	98.91	0.28	0.57
	Antiseptic, antiviral, keratoplastic & keratolytic agents	1	0.05	21.05 ± 0	21.05	0.04	0.88	3	0.15	23.99 ± 17.39	71.96	0.21	1.38
	Antipruritic & anti-inflammatory agents	9	0.43	1.43 ± 1.09	12.86	0.03	0.06	12	0.60	1.89 ± 0.87	22.73	0.07	0.11
	Keratoplastic & keratolytic agents							1	0.05	18.23 ± 0	18.23	0.05	1.05
	Scabicides & pediculocides							5	0.25	2.49 ± 2.34	12.47	0.04	0.14
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	4	0.19	1.40 ± 1.14	5.61	0.01	0.06	8	0.40	31.95 ± 87.70	255.56	0.73	1.83
	Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	2	0.10	16.96 ± 0	33.93	0.07	0.71	1	0.05	1.72 ± 0	1.72	0.00	0.10
	Eye preparations (anti-infective)	7	0.33	2.26 ± 1.54	15.82	0.03	0.09	8	0.40	9.95 ± 12.16	79.62	0.23	0.57

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>19≤40	Eye preparations (anti allergic & anti-inflammatory including corticosteroids & decongestants)	1	0.05	4.73 ± 0	4.73	0.01	0.20	6	0.30	4.73 ± 0	28.37	0.08	0.27
	Ear and nose preparations							9	0.45	7.41 ± 7.20	66.65	0.19	0.42
	Corticosteroids for topical use	1	0.05	3.80 ± 0	3.80	0.01	0.16	8	0.40	3.37 ± 3.44	26.93	0.08	0.19
	Contraceptive (barrier method)	1	0.05	0 ± 0	0.00	0.00	0.00						
	Contraceptive (injectable)	1	0.05	113.92 ± 0	113.92	0.23	**4.74**						
	Contraceptive (oral)	1	0.05	19.78 ± 0	19.78	0.04	0.82						
	Hormone, androgen, oestrogen & progesterone							1	0.05	12.40 ± 0	12.40	0.04	0.71
	Antidiabetic agents (injection)	8	0.38	11.17 ± 25.27	89.35	0.18	0.46	6	0.30	13.64 ± 17.92	81.84	0.23	0.78
	Antidiabetic agents (oral)	8	0.38	2.18 ± 2.62	17.41	0.03	0.09	13	0.65	7.68 ± 3.79	99.86	0.29	0.44
	Oxytoxins and other obstetric drugs	3	0.14	9.49 ± 3.29	28.47	0.06	0.39						
	Corticosteroids for systemic use (oral/injection)	62	2.96	21.02 ± 44.21	1302.95	2.59	0.87	48	2.40	7.27 ± 14.42	348.72	1.00	0.42
	Anti-epileptic	29	1.38	26.70 ± 31.32	774.41	1.54	1.11	65	3.25	21.39 ± 18.68	1390.18	3.98	1.23
	Antiparkinsonism	1	0.05	12.80 ± 0	12.80	0.03	0.53						
	Psychiatric disorder (schizophrenia)							2	0.10	16.61 ± 0	33.23	0.10	0.95
	Psycotic disorder	38	1.81	12.75 ± 34.63	484.62	0.96	0.53	7	0.35	2.41 ± 1.34	16.88	0.05	0.14

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>19≤40	Mood disorder	37	1.77	11.18 ± 11.38	413.75	0.82	0.47	34	1.70	16.20 ± 8.84	550.64	1.58	0.93
	Hypnotic / sedative	21	1.00	0.54 ± 0.89	11.35	0.02	0.02	1	0.05	0.22 ± 0	0.22	0.00	0.01
	Muscle relaxant (central & peripherally acting)	9	0.43	2.46 ± 2.35	22.16	0.04	0.10	3	0.15	4.93 ± 0	14.78	0.04	0.28
	Antimigraine agent	2	0.10	19.80 ± 0	39.60	0.08	0.82	1	0.05	19.80 ± 0	19.80	0.06	1.14
	Antihelmenthic	1	0.05	5.84 ± 0	5.84	0.01	0.24	4	0.20	8.76 ± 5.84	35.03	0.10	0.50
	Antacid / anti-ulcer	22	1.05	11.94 ± 11.36	262.64	0.52	0.50	37	1.85	16.00 ± 9.85	592.15	1.70	0.92
	Anti-emetic	31	1.48	3.41 ± 4.43	105.61	0.21	0.14	19	0.95	1.09 ± 0.72	20.66	0.06	0.06
	Anti-haemmorrhoidal	5	0.24	6.47 ± 5.32	32.36	0.06	0.27	5	0.25	14.07 ± 0	70.35	0.20	0.81
	Cathartic drug / laxative	10	0.48	5.68 ± 7.16	56.80	0.11	0.24	3	0.15	7.38 ± 4.10	22.14	0.06	0.42
	Antidiarrhoea & ulcerative colitis	5	0.24	0.51 ± 0.33	2.54	0.01	0.02	4	0.20	1.27 ± 0.49	5.09	0.01	0.07
	Antispasmodics & anticholinergics	6	0.29	1.94 ± 1.42	11.63	0.02	0.08	7	0.35	2.76 ± 1.11	19.29	0.06	0.16
	Constipation, digestants, liver & bile preparations	5	0.24	1.65 ± 1.24	8.26	0.02	0.07	4	0.20	2.69 ± 4.13	10.75	0.03	0.15
	Mouthwash & throat preparations	5	0.24	0.68 ± 0.58	2.72	0.01	0.02	11	0.55	1.18 ± 0	13.02	0.04	0.07
	Electrolyte and acid-base disturbances (parenteral)	35	1.67	15.58 ± 11.28	545.38	1.08	0.65	3	0.15	6.37 ± 3.87	19.11	0.05	0.37
	Vitamin & mineral	293	13.98	0.90 ± 1.43	262.89	0.52	0.04	283	14.14	2.48 ± 5.87	702.13	2.01	0.14
	Feeding and nutritional supplements	4	0.19	7.44 ± 0.29	29.76	0.06	0.31	1	0.05	10.25 ± 0	10.25	0.03	0.59
	Other gastrolytes	2	0.10	21.60 ± 0	43.20	0.09	0.90						
	Anaesthetics (local)	4	0.19	14.90 ± 0	59.62	0.12	0.62	5	0.25	14.90 ± 0	74.52	0.21	0.85

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>19≤40	Analgesics, non opioids including NSAIMs, gold and antigout preparations	390	18.61	40.82 ± 163.03	15919.25	**31.58**	1.70	522	26.07	12.52 ± 33.90	6537.24	**18.73**	0.72
	Analgesics (opioids) / narcotic analgesics	29	1.38	7.17 ± 11.04	207.97	0.41	0.30						
	Vaccines	7	0.33	4.55 ± 7.37	31.83	0.06	0.19	18	0.90	1.36 ± 0.49	24.40	0.07	0.08
	Anti-asthmatic & mucolytics	25	1.19	4.93 ± 3.51	123.16	0.24	0.20	41	2.05	14.92 ± 12.63	611.77	1.75	0.86
	Cough mixture	3	0.14	1.86 ± 1.35	5.59	0.01	0.08	20	1.00	2.63 ± 0.49	52.54	0.15	0.15
	Antituberculosis	57	2.72	27.22 ± 21.92	1551.58	3.08	1.13	22	1.10	39.45 ± 9.70	867.99	2.49	2.26
	Decongestants (cold/flu)							5	0.25	2.35 ± 0	11.76	0.03	0.13
	Antihistamines for systemic use	12	0.57	1.61 ± 1.12	19.27	0.04	0.07	35	1.75	2.21 ± 0.59	77.50	0.22	0.13
	Total	**2096**	**100**		**50401.81**	**100**		**2002**	**100**		**34910.68**	**100**	
>40≤60	Antibacterial (penicillins)	157	10.49	55.98 ± 88.88	8788.38	**29.35**	2.80	81	4.07	13.83 ± 30.58	1120.29	2.62	0.64
	Anti-infective (cephalosporins)	6	0.40	76.66 ± 125.25	459.93	1.54	**3.83**	4	0.20	11.03 ± 5.06	44.14	0.10	0.51
	Antibacterial (chloramphenicol, erythromycin)	122	8.15	6.69 ± 43.77	816.12	2.73	0.33	157	7.89	5.56 ± 7.73	873.00	2.04	0.26
	Antiviral	64	4.28	34.28 ± 48.99	2194.20	7.33	1.71	211	10.61	102.08 ± 112.84	21539.62	**50.33**	**4.74**
	Antifungal (oral/injection)	1	0.07	3.99 ± 0	3.99	0.01	0.20						
	Cancer Chemotherapy							11	0.55	9.88 ± 3.60	108.68	0.25	0.46
	Anti-angina	6	0.40	1.14 ± 0.84	6.86	0.02	0.06	7	0.35	5.28 ± 3.41	36.93	0.09	0.25
	Antihypertensive	158	10.55	10.38 ± 38.38	1639.36	**5.48**	0.52	232	11.66	19.95 ± 54.13	4628.02	**10.81**	0.93
	Congestive heart failure drugs	10	0.67	3.58 ± 2.57	35.84	0.12	0.18	7	0.35	3.37 ± 0	23.59	0.06	0.16

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>40≤60	Antithrombotic and anticoagulant	30	2.00	130.17 ± 500.36	3905.17	**13.04**	**6.51**	18	0.90	29.52 ± 33.72	531.34	1.24	1.37
	Drugs affecting the blood	58	3.87	3.07 ± 8.92	177.80	0.59	0.15	19	0.96	1.76 ± 1.31	33.43	0.08	0.08
	Hypolipidaemic agents	1	0.07	15.15 ± 0	15.15	0.05	0.76	3	0.15	7.61 ± 1.72	22.83	0.05	0.35
	Antifungal (topical)	5	0.33	2.54 ± 0.02	12.70	0.04	0.13	8	0.40	14.80 ± 20.76	118.40	0.28	0.69
	Antiseptic, antiviral, keratoplastic & keratolytic agents	4	0.27	42.29 ± 55.06	169.15	0.56	2.11	12	0.60	23.35 ± 13.17	280.18	0.65	1.09
	Antipruritic & anti-inflammatory agents	5	0.33	1.06 ± 0.04	5.32	0.02	0.05	30	1.51	4.18 ± 8.22	125.48	0.29	0.19
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	2	0.13	5.49 ± 7.50	10.98	0.04	0.27	5	0.25	1.59 ± 0.94	7.94	0.02	0.07
	antiseptics, soaps, irrigation solutions and preservative fluids							1	0.05	16.96 ± 0	16.96	0.04	0.79
	Eye preparations (anti infective)	2	0.13	10.77 ± 9.14	21.54	0.07	0.54	4	0.20	18.37 ± 11.63	73.48	0.17	0.85
	Eye preparations (local anesthetic)							1	0.05	60.00 ± 0	60.00	0.14	2.79
	Eye preparations (anti allergic & anti-inflammatory including corticosteroids & decongestants)							3	0.15	4.73 ± 0	14.18	0.03	0.22

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>40≤60	Ear and nose preparations	1	0.07	17.00 ± 0	17.00	0.06	0.85	5	0.25	8.73 ± 13.36	43.63	0.10	0.41
	Corticosteroids for topical use							2	0.10	1.90 ± 0	3.80	0.01	0.09
	Contraceptive (injectable)							2	0.10	56.96 ± 0	113.92	0.27	2.65
	Hormone, androgen, oestrogen & progesterone	2	0.13	13.53 ± 1.60	27.06	0.09	0.68	4	0.20	12.40 ± 0	49.60	0.12	0.58
	Antidiabetic agents (injection)	22	1.47	27.72 ± 32.95	609.92	2.04	1.39	28	1.41	49.20 ± 50.12	1377.65	3.22	2.29
	Antidiabetic agents (oral)	45	3.01	3.99 ± 4.10	179.68	0.60	0.20	25	1.26	7.84 ± 3.49	196.11	0.46	0.36
	Thyroid and parathyroid preparations	1	0.07	0.37 ± 0	0.37	0.00	0.02						
	Corticosteroids for systemic use (oral/injections)	28	1.87	31.52 ± 62.48	882.69	2.95	1.58	68	3.42	2.96 ± 3.83	201.01	0.47	0.14
	Anti-epileptic	39	2.61	21.00 ± 25.07	818.87	2.73	1.05	84	4.22	23.19 ± 14.09	1948.27	4.55	1.08
	Antiparkinsonism							2	0.10	69.00 ± 0	138.00	0.32	**3.21**
	Psychiatric disorder (schizophrenia)							1	0.05	8.82 ± 0	8.82	0.02	0.41
	Psycotic disorder	13	0.87	14.14 ± 26.92	183.87	0.61	0.71	20	1.01	3.29 ± 1.54	65.84	0.15	0.15
	Mood disorder	32	2.14	12.67 ± 17.17	405.28	1.35	0.63	45	2.26	16.31 ± 9.76	734.14	1.72	0.76
	Hypnotic / sedative	7	0.47	0.58 ± 0.47	4.09	0.01	0.03	6	0.30	0.37 ± 0.34	2.25	0.01	0.02
	Muscle relaxant (central & peripherally acting)	4	0.27	3.96 ± 4.45	15.83	0.05	0.20	16	0.80	4.93 ± 0	78.80	0.18	0.23
	Antihelmenthic	1	0.07	5.84 ± 0	5.84	0.02	0.29	3	0.15	7.79 ± 3.37	23.36	0.05	0.36
	Antacid /anti-ulcer	44	2.94	9.19 ± 10.65	404.56	1.35	0.46	29	1.46	16.06 ± 11.53	465.61	1.09	0.75
	Anti-emetic	35	2.34	3.80 ± 5.57	133.06	0.44	0.19	20	1.01	1.62 ± 1.11	32.49	0.08	0.08

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>40≤60	Anti-haemmorrhoidal	1	0.07	14.07 ± 0	14.07	0.05	0.70	1	0.05	13.40 ± 0	13.40	0.03	0.62
	Cathartic drug / laxative	3	0.20	6.89 ± 7.25	20.67	0.07	0.34	1	0.05	2.65 ± 0	2.65	0.01	0.12
	Antidiarrhoea & ulcerative colitis	6	0.40	0.52 ± 0.23	3.09	0.01	0.03	4	0.20	1.26 ± 0.51	5.04	0.01	0.06
	Antispasmodics & anticholinergic	12	0.80	1.94 ± 1.24	23.27	0.08	0.10	7	0.35	2.26 ± 1.48	15.83	0.04	0.11
	Constipation, digestants, liver & bile preparations	5	0.33	2.34 ± 1.92	11.70	0.04	0.12	9	0.45	2.43 ± 1.92	21.89	0.05	0.11
	Mouthwash & throat preparations							10	0.50	1.25 ± 0.21	12.50	0.03	0.06
	Electrolyte and acid-base disturbances (parenteral)	22	1.47	9.24 ± 5.35	203.33	0.68	0.46	1	0.05	0.19 ± 0	0.19	0.00	0.01
	Vitamin & mineral	178	11.89	0.97 ± 1.49	172.39	0.58	0.05	220	11.06	1.93 ± 2.56	425.33	0.99	0.09
	Feeding and nutritional supplements	2	0.13	12.78 ± 6.94	25.55	0.09	0.64						
	Anaesthetics (local)							1	0.05	14.90 ± 0	14.90	0.03	0.69
	Analgesics, non opioids including NSAIMs, gold and antigout preparations	260	17.37	23.53 ± 137.89	6117.32	**20.43**	1.18	490	24.64	13.03 ± 33.85	6385.32	**14.92**	0.61
	Analgesics (opoids) / narcotic analgesics	19	1.27	10.25 ± 10.65	194.69	0.65	0.51						
	Anti-malaria							1	0.05	1.68 ± 0	1.68	0.00	0.08
	Vaccines							2	0.10	1.06 ± 0	2.12	0.00	0.05
	Anti-asthmatic & mucolytic	33	2.20	12.06 ± 15.02	398.06	1.33	0.60	23	1.16	10.94 ± 14.96	251.69	0.59	0.51
	Cough mixture	7	0.47	1.53 ± 0.69	10.73	0.04	0.08	7	0.35	2.31 ± 0.26	16.17	0.04	0.11
	Antituberculosis	35	2.34	22.31 ± 22.12	780.81	2.61	1.12	10	0.50	41.92 ± 8.73	419.19	0.98	1.95

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>40≤60	Decongestants (cold/flu)							1	0.05	2.35 ± 0	2.35	0.01	0.11
	Antihistamines for systemic use	9	0.60	1.74 ± 0.45	15.62	0.05	0.09	27	1.36	2.29 ± 1.01	61.66	0.14	0.11
	Total	**1497**	**100**		**29941.91**	**100**		**1989**	**100**		**42793.70**	**100**	
>60	Antibacterial (penicillins)	97	8.82	42.07 ± 65.48	4081.24	**22.11**	2.51	35	4.30	13.31 ± 13.10	456.74	3.65	0.85
	Anti-infective (cephalosporins)	6	0.55	32.35 ± 19.17	194.10	1.05	1.93	1	0.12	9.24 ± 0	9.24	0.07	0.60
	Antibacterial (chloramphenicol, erythromycin)	45	4.09	1.32 ± 2.25	59.60	0.32	0.08	14	1.72	2.28 ± 1.04	31.90	0.25	0.15
	Antiviral	1	0.09	0.33 ± 0	0.33	0.00	0.02						
	Antifungal (oral/injection)	5	0.45	1.12 ± 1.10	5.59	0.03	0.07	2	0.25	3.99 ± 0	7.98	0.06	0.26
	Cancer Chemotherapy							1	0.12	0.13 ± 0	0.13	0.00	0.01
	Antihypertensive	205	18.64	8.38 ± 16.20	1718.80	**9.31**	0.50	195	23.96	17.93 ± 27.43	3496.84	**27.94**	1.17
	Congestive heart failure drugs	7	0.64	1.89 ± 1.65	13.22	0.07	0.11	10	1.23	4.25 ± 1.35	42.54	0.34	0.28
	Antithrombotic and anticoagulant	10	0.91	41.50 ± 29.96	414.99	2.25	2.47	6	0.74	18.33 ± 9.04	109.95	0.88	1.19
	Drugs affecting the blood	39	3.55	0.80 ± 0.79	31.16	0.17	0.05	5	0.61	2.56 ± 1.55	12.81	0.10	0.17
	Hypolipidaemic agents	3	0.27	3.89 ± 4.99	11.66	0.06	0.23	2	0.25	8.11 ± 2.11	16.22	0.13	0.53
	Antifungal (topical)	2	0.18	16.53 ± 0	33.06	0.18	0.99	1	0.12	2.55 ± 0	2.55	0.02	0.17
	Antipruritic & anti-inflammatory agents	2	0.18	0.78 ± 0.37	1.57	0.01	0.05	10	1.23	3.82 ± 7.64	38.17	0.31	0.25

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>60	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	2	0.18	1.02 ± 0	2.03	0.01	0.06	1	0.12	1.02 ± 0	1.02	0.01	0.07
	antiseptics, soaps, irrigation solutions and preservative fluids	2	0.18	1.72 ± 0	3.45	0.02	0.10						
	Eye preparations (anti infective)							6	0.74	26.21 ± 9.01	157.28	1.26	1.71
	Eye preparations (anti allergic & anti-inflammatory including corticosteroids & decongestants)							4	0.49	4.73 ± 0	18.91	0.15	0.31
	Ear and nose preparations							4	0.49	3.67 ± 1.84	14.68	0.12	0.24
	Corticosteroids for topical use	1	0.09	1.90 ± 0	1.90	0.01	0.11						
	Hormone, androgen, oestrogen & progesterone							4	0.49	12.40 ± 0	49.60	0.40	0.81
	Antidiabetic agents (injection)	17	1.55	35.22 ± 34.14	598.71	3.24	2.10						
	Antidiabetic agents (oral)	41	3.73	5.54 ± 4.31	227.09	1.23	0.33	24	2.95	8.74 ± 3.13	209.88	1.68	0.57
	Antihypoglucaemic agents	3	0.27	1097.74 ± 914.93	3293.22	**17.84**	**65.41**						
	Thyroid and parathyroid preparations	9	0.82	5.76 ± 2.62	51.87	0.28	0.34						

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>60	Corticosteroids for systemic use (oral/injection)	16	1.45	5.15 ± 9.32	82.32	0.45	0.31	25	3.07	9.79 ± 11.15	244.72	1.96	0.64
	Anti-epileptic	25	2.27	15.19 ± 19.50	379.84	2.06	0.91	17	2.09	13.72 ± 8.79	233.23	1.86	0.89
	Antiparkinsonism	3	0.27	39.89 ± 50.81	119.68	0.65	2.38						
	Psychiatric disorder (schizophrenia)							1	0.12	8.82 ± 0	8.82	0.07	0.57
	Psycotic disorder	10	0.91	0.76 ± 0.88	7.63	0.04	0.05	1	0.12	1.79 ± 0	1.79	0.01	0.12
	Mood disorder	23	2.09	9.26 ± 11.05	212.90	1.15	0.55	23	2.83	19.02 ± 5.27	437.50	3.50	1.24
	Hypnotic / sedative	6	0.55	0.60 ± 0.82	3.62	0.02	0.04	1	0.12	1.05 ± 0	1.05	0.01	0.07
	Muscle relaxant (central & peripherally acting)	1	0.09	1.05 ± 0	1.05	0.01	0.06	1	0.12	1.40 ± 0	1.40	0.01	0.09
	Antihelmenthic	3	0.27	5.84 ± 0	17.52	0.09	0.35						
	Antacid / anti-ulcer	40	3.64	13.60 ± 11.78	544.04	2.95	0.81	10	1.23	19.92 ± 11.95	199.18	1.59	1.30
	Anti-emetic	28	2.55	6.99 ± 9.37	195.60	1.06	0.42	4	0.49	1.20 ± 0.99	4.80	0.04	0.08
	Anti-haemmorrhoidal							3	0.37	14.07 ± 0	42.21	0.34	0.92
	Cathartic drug / laxative	4	0.36	12.45 ± 12.99	49.80	0.27	0.74						
	Antidiarrhoea & ulcerative colitis	4	0.36	0.49 ± 0.41	1.98	0.01	0.03	4	0.49	1.06 ± 0.42	4.24	0.03	0.07
	Antispasmodics & anticholinergics	5	0.45	3.46 ± 1.70	17.30	0.09	0.21	2	0.25	2.31 ± 1.68	4.62	0.04	0.15
	Constipation, digestants, liver & bile preparations	3	0.27	1.07 ± 0.59	3.20	0.02	0.06	3	0.37	1.73 ± 2.34	5.19	0.04	0.11
	Mouthwash & throat preparations	2	0.18	1.18 ± 0	2.37	0.01	0.07	1	0.12	1.18 ± 0	1.18	0.01	0.08
	Electrolyte and acid-base distrubances (parenteral)	14	1.27	18.56 ± 22.29	259.86	1.41	1.11						
	Vitamin & minerals	132	12.00	0.84 ± 1.69	110.46	0.60	0.05	64	7.86	1.26 ± 1.27	80.79	0.65	0.08

Appendix D.21: Average cost per medicine item according to pharmacological groups and age groups (continue)

Age group (years)	Pharmacological group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>60	Feeding and nutritional supplements	2	0.18	7.30 ± 0	14.60	0.08	0.44						
	Other gastrolytes	1	0.09	129.60 ± 0	129.60	0.70	**7.72**						
	Anaesthetics (local)							3	0.37	14.90 ± 0	44.71	0.36	0.97
	Analgesics, non opioids including NSAIMs, gold and antigout preparations	236	21.45	21.99 ± 104.16	5189.01	**28.11**	1.31	268	32.92	14.85 ± 43.94	3980.70	**31.81**	0.97
	Analgesics (opioids) / narcotic analgesics	20	1.82	12.76 ± 9.64	255.27	1.38	0.76	2	0.25	3.28 ± 3.23	6.56	0.05	0.21
	Sera & Immunologicals							1	0.12	324.37 ± 0	324.37	2.59	**21.10**
	Vaccines							5	0.61	324.37 ± 0	1621.84	**12.96**	**21.10**
	Anti-asthmatic & mucolytics	13	1.18	6.99 ± 4.83	90.85	0.49	0.42	35	4.30	15.79 ± 10.31	552.65	4.42	1.03
	Cough mixture	4	0.36	2.41 ± 0	9.64	0.05	0.14	3	0.37	2.75 ± 0.58	8.24	0.07	0.18
	Antituberculosis	3	0.27	2.10 ± 4.20	12.59	0.07	0.25						
	Decongestants (cold/flu)							2	0.25	2.58 ± 0.33	5.17	0.04	0.17
	Antihistamines for systemic use	5	0.45	1.05 ± 0.56	5.25	0.03	0.06	10	1.23	2.19 ± 0	21.90	0.18	0.14
	Total	**1100**	**100**		**18459.57**	**100**		**814**	**100**		**12513.30**	**100**	

* Percentage was calculated for pharmacological groups according to the total number of medicine items dispensed to inpatients and outpatients in the different age groups respectively

** Percentage was calculated for pharmacological groups according to the total cost for inpatients and outpatients in the different age groups respectively

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Diarrhoea, infective / Food poisoning	Antibacterial (penicillins)	98	52.13	22.39 ± 54.70	2193.74	62.03	1.19	3	12.50	8.44 ± 8.62	25.31	29.63	2.37
	Anti-infective (cephalosporins)	7	3.72	147.60 ± 143.89	1033.23	29.21	7.85	1	4.17	7.17 ± 0	7.17	8.39	2.01
	Antibacterial (chloramphenicol, erythromycin)	49	26.06	0.86 ± 0.95	42.07	1.19	0.05	6	25.00	4.53 ± 6.14	27.17	31.81	1.27
	Antidiarrhea & ulcerative colitis	34	18.09	7.87 ± 9.92	267.71	7.57	0.42	14	58.33	1.84 ± 2.53	25.76	30.16	0.52
	Total	**188**	**100**		**3536.75**	**100.00**		**24**	**100**		**85.41**	**100**	
Tuberculosis	Antibacterial (penicillins)	39	18.93	60.86 ± 79.88	2373.41	40.60	2.14	2	5.41	4.28 ± 1.16	8.55	0.65	0.12
	Anti-infective (cephalosporins)	4	1.94	146.80 ± 238.26	587.19	10.04	5.17						
	Antibacterial (chloramphenicol, erythromycin)	16	7.77	3.46 ± 6.64	55.30	0.95	0.12	1	2.70	4.53 ± 0	4.53	0.34	0.13
	Antidiarrhea & ulcerative colitis	1	0.49	10.50 ± 0	10.50	0.18	0.37						
	Antituberculosis	146	70.87	19.31 ± 20.27	2819.49	48.23	0.68	34	91.89	38.25 ± 12.09	1300.51	99.00	1.08
	Total	**206**	**100**		**5845.89**	**100.00**		**37**	**100**		**1313.59**	**100**	
Septicaemia	Antibacterial (penicillins)	1	20.00	2.61 ± 0	2.61	0.43	0.02						
	Anti-infective (cephalosporins)	2	40.00	302.40 ± 285.11	604.80	99.45	2.49						
	Antibacterial (chloramphenicol, erythromycin)	2	40.00	0.37 ± 0.16	0.74	0.12	0.00						
	Total	**5**	**100**		**608.15**	**100.00**							
STD suspicion	Antibacterial (penicillins)	3	60.00	5.23 ± 6.06	15.98	80.83	1.35	10	40.00	38.03 ± 83.36	380.26	83.28	2.08
	Anti-infective (cephalosporins)							1	4.00	18.49 ± 0	18.49	4.05	1.01
	Antibacterial (chloramphenicol, erythromycin)	2	20.00	1.90 ± 0.49	3.79	19.17	0.96	14	56.00	4.13 ± 8.50	57.83	12.67	0.23
	Total	**5**	**100**		**19.77**	**100.00**		**25**	**100**		**456.58**	**100**	
Vaginal discharge	Antibacterial (chloramphenicol, erythromycin)	1	100.00	0.33 ± 0	0.33	100.00	1.00						
	Total	1	**100**		0.33	100.00							

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Herpes viral inflammation of perianal skin & rectum	Antibacterial (penicillins)	1	50.00	15.60 ± 0	15.60	87.44	1.75						
	Antibacterial (chloramphenicol, erythromycin)	1	50.00	2.24 ± 0	2.24	12.56	0.25						
	Total	**2**	**100**		**17.84**	**100.00**							
Genital warts	Antibacterial (penicillins)	2	66.67	14.55 ± 2.50	29.10	94.17	1.41						
	Antibacterial (chloramphenicol, erythromycin)	1	33.33	1.80 ± 0	1.80	5.83	0.17						
	Antiseptic, antiviral, keratoplastic & keratolytic agents							5	100.00	33.80 ± 11.63	168.98	100.00	1.00
	Total	**3**	**100**		**30.90**	**100.00**		**5**	**100**		**168.98**	**100**	
Rabies	Sera & immunologicals							1	16.67	324.37 ± 0	324.37	16.67	1.00
	Vaccines							5	83.33	324.37 ± 0	1621.84	83.33	1.00
	Total							**6**	**100**		**1946.21**	**100**	
Herpes simplex / cold sore	Eye preparations (anti-infective)							1	100.00	7.18 ± 0	7.18	100.00	1.00
	Total							**1**	**100**		**7.18**	**100**	
Undefined bacterial infection	Antibacterial (penicillins)	371	54.00	38.80 ± 69.12	14393.20	60.16	1.11	272	54.18	12.61 ± 18.15	3429.75	53.39	0.99
	Anti-infective (cephalosporins)	43	6.26	197.64 ± 325.02	8498.70	35.52	5.67	12	2.39	28.43 ± 30.99	341.10	5.31	2.22
	Antibacterial (chloramphenicol, erythromycin)	272	39.59	3.80 ± 29.41	1033.09	4.32	0.11	206	41.04	12.11 ± 108.10	2493.82	38.82	0.95
	Antiviral							1	0.20	3.09 ± 0	3.09	0.05	0.24
	Antifungal (oral/injection)							3	0.60	3.99 ± 0	11.97	0.19	0.31
	Antifungal (topical)							2	0.40	2.55 ± 0	5.10	0.08	0.20
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays							1	0.20	2.03 ± 0	2.03	0.03	0.16
	Eye preparations (anti-infective)							3	0.60	27.76 ± 10.78	83.29	1.30	2.17
	Eye preparations (other)							2	0.40	26.74 ± 12.61	53.48	0.83	2.09
	Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	1	0.15	1.86 ± 0	1.86	0.01	0.05						
	Total	**687**	**100**		**23926.85**	**100.00**		**502**	**100**		**6423.63**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Undefined viral infection	Antibacterial (penicillins)	7	43.75	71.48 ± 7288	500.37	45.00	1.03	1	8.33	2.55 ± 0	2.55	2.50	0.30
	Anti-infective (cephalosporins)	1	6.25	594.95 ± 0	594.95	53.50	8.56						
	Antibacterial (chloramphenicol, erythromycin)	6	37.50	2.09 ± 2.25	12.54	1.13	0.03	2	16.67	3.39 ± 1.62	6.77	6.63	0.40
	Antiviral	1	6.25	3.09 ± 0	3.09	0.28	0.04	4	33.33	3.09 ± 0	12.35	12.10	0.36
	Eye preparations (anti-infective)	1	6.25	1.01 ± 0	1.01	0.09	0.01	5	41.67	16.08 ± 12.41	80.42	78.77	1.89
	Total	**16**	**100**		**1111.96**	**100.00**		**12**	**100**		**102.09**	**100**	
Karposi's sarcoma	Antibacterial (penicillins)	2	50.00	52.83 ± 56.10	105.66	95.11	1.90						
	Antibacterial (chloramphenicol, erythromycin)	2	50.00	2.72 ± 2.57	5.43	4.89	0.10						
	Total	**4**	**100**		**111.09**	**100.00**							
Unspecified HIV	Antibacterial (penicillins)							4	0.58	1.65 ± 1.64	6.58	0.01	0.02
	Antibacterial (chloramphenicol, erythromycin)	39	16.18	4.21 ± 2.32	164.04	1.75	0.11	166	24.20	6.30 ± 8.36	1045.70	2.23	0.09
	Antiviral	202	83.82	45.59 ± 76.39	9209.71	98.25	1.17	515	75.07	88.72 ± 117.21	45693.01	97.23	1.30
	Drugs affecting the blood							1	0.15	247.34 ± 0	247.34	0.53	3.61
	Total	**241**	**100.00**		**9373.75**	**100.00**		**686**	**100**		**46992.63**	**100**	
Fungal skin infection	Antifungal (topical)	12	100.00	21.27 ± 10.28	259.53	100.00	1.00	21	100.00	13.29 ± 16.99	279.09	100.00	1.00
	Total	**12**	**100.00**		**259.53**	**100.00**		**21**	**100**		**279.09**	**100**	
Scabies	Antibacterial (penicillins)							1	9.09	18.39 ± 0	18.39	25.11	2.76
	Antibacterial (chloramphenicol, erythromycin)							1	9.09	33.60 ± 0	33.60	45.87	5.05
	Scabicides & pediculocides	5	100.00	1.07 ± 0.46	5.34	100.00	1.00	9	81.82	2.36 ± 2.33	21.26	29.02	0.35
	Total	**5**	**100.00**		**5.34**	**100.00**		**11**	**100**		**73.25**	**100**	
Candidiasis	Antibacterial (penicillins)	1	4.76	0.00 ± 0	0.00	0.00	0.00						
	Antibacterial (chloramphenicol, erythromycin)							1	25.00	3.60 ± 0	3.60	15.27	0.61
	Antifungal (oral/injection)	17	80.95	4.28 ± 5.32	72.70	35.92	0.44	3	75.00	6.66 ± 4.62	19.97	84.73	1.13
	Antifungal (topical)	3	14.29	43.24 ± 1.73	129.71	64.08	4.49						
	Total	**21**	**100.00**		**202.41**	**100.00**		**4**	**100**		**23.57**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Cryptococcus - cerebral meningitis	Antibacterial (penicillins)	2	50.00	114.05 ± 32.26	228.09	80.44	1.61						
	Anti-infective (cephalosporins)	2	50.00	27.73 ± 26.14	55.46	19.56	0.39						
	Total	**4**	**100.00**		**283.55**	**100.00**							
Malaria	Antimalaria							1	100.00	1.68 ± 0	1.68	100.00	1.00
	Total							**1**	**100**		**1.68**	**100**	
Worm infections except tape worm	Antihelmenthic	17	100.00	6.31 ± 0.66	107.20	100.00	1.00	12	100.00	7.50 ± 3.57	90.01	100.00	1.00
	Total	**17**	**100.00**		**107.20**	**100.00**		**12**	**100**		**90.01**	**100**	
Hypercalcaemia	Anti-infective (cephalosporins)	1	100.00	9.24 ± 0	9.24	100.00	1.00						
	Total	**1**	**100.00**		**9.24**	**100.00**							
Malignant neoplasm testis, unspecified	Antibacterial (penicillins)	7	100.00	49.96 ± 96.15	349.69	100.00	1.00						
	Total	**7**	**100.00**		**349.69**	**100.00**							
Cancer of penis, unspecified	Antibacterial (penicillins)	1	50.00	32.64 ± 0	32.64	69.57	1.39						
	Antibacterial (chloramphenicol, erythromycin)	1	50.00	14.28 ± 0	14.28	30.43	0.61						
	Total	**2**	**100.00**		**46.92**	**100.00**							
Multiple Myeloma	Antibacterial (penicillins)	2	100.00	77.17 ± 63.95	154.34	100.00	1.00						
	Total	**2**	**100.00**		**154.34**	**100.00**							
Unspecified folate deficiency anemia	Antithrombotic and anticoagulant							1	2.33	1.00 ± 0	1.00	2.45	1.05
	Drugs affecting the blood	221	100.00	0.45 ± 0.44	100.52	100.00	1.00	42	97.67	0.95 ± 0.15	39.88	97.55	1.00
	Total	**221**	**100.00**		**100.52**	**100.00**		**43**	**100**		**40.88**	**100**	
Unspecified anemia	Antibacterial (penicillins)	2	1.09	2.07 ± 0.01	4.14	0.98	0.89						
	Antibacterial (chloramphenicol, erythromycin)	2	1.09	1.19 ± 1.47	2.38	0.56	0.51						
	Drugs affecting the blood	177	96.72	2.15 ± 5.15	381.04	89.75	0.93	41	97.62	3.56 ± 8.72	145.87	90.73	0.93
	Antihelmenthic	2	1.09	18.51 ± 23.59	37.02	8.72	7.98						
	Anaesthetics (local)							1	2.38	14.90 ± 0	14.90	9.27	3.89
	Total	**183**	**100.00**		**424.58**	**100.00**		**42**	**100**		**160.77**	**100**	
Unspecified coagulation defects	Antibacterial (penicillins)							1	0.81	3.46 ± 0	3.46	0.32	0.39
	Antithrombotic and anticoagulant	57	40.43	92.15 ± 364.65	5252.40	97.60	2.41	28	22.76	32.82 ± 36.99	918.89	85.18	3.74
	Drugs affecting the blood	3	2.13	19.49 ± 13.50	58.46	1.09	0.51	1	0.81	11.69 ± 0	11.69	1.08	1.33

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Unspecified coagulation defects	Analgesics, non opoids including NSAIMs, gold and anti-gout preparations	81	57.45	0.88 ± 0.75	70.97	1.32	0.02	93	75.61	1.56 ± 0.35	144.75	13.42	0.18
	Total	**141**	**100.00**		**5381.83**	**100.00**		**123**	**100**		**1078.79**	**100**	
Hypothyroidism, unspecified	Thyroid and parathyroid preparations	9	100.00	5.76 ± 2.62	51.87	100.00	1.00						
	Total	**9**	**100.00**		**51.87**	**100.00**							
Diabetes mellitus type 1	Antidiabetic agents (injection)	46	100.00	27.99 ± 32.92	1287.71	100.00	1.00	34	100.00	42.93 ± 47.89	1459.49	100.00	1.00
	Total	**46**	**100.00**		**1287.71**	**100.00**		**34**	**100**		**1459.49**	**100**	
Diabetes mellitus type 2	Antidiabetic agents (injection)	1	1.05	10.27 ± 0	10.27	2.36	2.25						
	Antidiabetic agents (oral)	94	98.95	4.51 ± 4.18	424.19	97.64	0.99	62	100.00	8.16 ± 3.40	505.85	100.00	1.00
	Total	**95**	**100.00**		**434.46**	**100.00**		**62**	**100**		**505.85**	**100**	
Hypoglycaemia / hyperglycaemia in diabetes mellitus	Antibacterial (penicillins)	1	20.00	3.68 ± 0	3.68	0.11	0.01						
	Antibacterial (chloramphenicol, erythromycin)	1	20.00	1.80 ± 0	1.80	0.05	0.00						
	Antihypoglycaemic agents	3	60.00	1097.74 ± 914.63	3293.22	99.83	1.66						
	Total	**5**	**100.00**		**3298.70**	**100.00**							
Pellagra	Congestive heart failure drugs	2	100.00	2.22 ± 2.62	4.44	100.00							
	Total	**2**	**100.00**		**4.44**	**100.00**							
Vitamin deficiency	Drugs affecting the blood	1	0.13	1.00 ± 0	1.00	0.16	1.22						
	Thyroid and parathyroid preparations	1	0.13	0.37 ± 0	0.37	0.06	0.45						
	Corticosteroids for systemic use (oral/injection)							1	0.17	3.13 ± 0	3.13	0.25	1.53
	Vitamins & Minerals	771	99.61	0.81 ± 1.35	627.04	99.23	1.00	605	99.83	2.05 ± 4.39	1237.52	99.75	1.00
	Feeding and nutritional supplements (oral)	1	0.13	3.50 ± 0	3.50	0.55	4.29						
	Total	**774**	**100.00**		**631.91**	**100.00**		**606**	**100**		**1240.65**	**100**	
Mineral deficiency	Drugs affecting the blood	1	0.88	0.50 ± 0	0.50	0.28	0.32						
	Vitamin & mineral	107	93.86	1.44 ± 1.97	154.43	85.86	0.91	53	100.00	2.68 ± 2.04	142.25	100.00	1.00
	Feeding and nutritional supplements (oral)	6	5.26	4.16 ± 7.14	24.94	13.87	2.63						
	Total	**114**	**100.00**		**179.87**	**100.00**		**53**	**100**		**142.25**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Cholesterol	Hypolipidaemic agents	4	100.00	6.70 ± 6.95	26.81	100.00	1.00	5	100.00	7.81 ± 1.63	39.05	100.00	1.00
	Total	**4**	**100.00**		**26.81**	**100.00**		**5**	**100**		**39.05**	**100**	
Sodium & water disturbances	Antacid / anti-ulcer	1	100.00	27.33 ± 0	27.33	100.00	1.00						
	Total	**1**	**100.00**		**27.33**	**100.00**							
Disorders of acid-base balance	Ear and nose preparations	7	6.73	0.68 ± 0.27	4.76	0.45	0.07						
	Antacid / anti-ulcer	96	92.31	10.76 ± 11.20	1033.09	98.59	1.07	60	98.36	17.85 ± 11.88	1070.93	99.93	1.02
	Constipation, digestants, liver & bile preparations							1	1.64	0.76 ± 0	0.76	0.07	0.04
	Electrolyte and acid-base disturbances (parenteral)	1	0.96	10.05 ± 0	10.05	0.96	1.00						
	Total	**104**	**100.00**		**1047.90**	**100.00**		**61**	**100**		**1071.69**	**100**	
Other disorders of fluid & electrolyte balance	Antibacterial (penicillins)	6	4.35	2.47 ± 2.08	14.79	0.89	0.20	1	3.57	2.16 ± 0	2.61	2.83	0.79
	Anti-infective (cephalosporins)	2	1.45	126.00 ± 59.40	252.00	15.17	10.46						
	Antibacterial (chloramphenicol, erythromycin)							1	3.57	1.11 ± 0	1.12	1.21	0.34
	Antacid / anti-ulcer	11	7.97	13.93 ± 12.99	153.20	9.22	1.16	3	10.71	15.46 ± 10.58	46.38	50.28	4.69
	Antidiarrhoea & ulcerative colitis							1	3.57	0.80 ± 0	0.80	0.87	0.24
	Constipation, digestants, liver & bile preparations	33	23.91	0.60 ± 0.19	19.76	1.19	0.05	18	64.29	0.76 ± 0.49	13.68	14.83	0.23
	Electrolyte and acid-base disturbances (parenteral)	78	56.52	14.81 ± 13.23	1155.23	69.53	1.23	3	10.71	5.80 ± 4.86	17.41	18.87	1.76
	Feeding and nutritional supplements (parenteral)	8	5.80	8.33 ± 3.98	66.61	4.01	0.69	1	3.57	10.25 ± 0	10.25	11.11	3.11
	Total	**138**	**100.00**		**1661.59**	**100.00**		**28**	**100.00**		**92.25**	**100.00**	**1.00**
Schizophrenic disorders	Psychiatric disorder (schizophrenia)							4	100.00	12.72 ± 4.50	50.87	100.00	1.00
	Total							**4**	**100**		**50.87**	**100**	
Bipolar affective disorder	Psychotic disorder	1	100.00	0.12 ± 0	0.12	100.00	1.00						
	Total	**1**	**100.00**		**0.12**	**100.00**							
Bipolar disorders	Antibacterial (penicillins)							1	3.45	3.46 ± 0	3.46	3.93	1.14
	Psychotic disorder	64	96.97	10.58 ± 29.46	677.36	99.58	1.03	28	96.55	3.02 ± 1.51	84.51	96.07	0.99
	Mood disorder	2	3.03	1.44 ± 1.53	2.88	0.42	0.14						
	Total	**66**	**100.00**		**680.24**	**100.00**		**29**	**100**		**87.97**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Major depressive disorder	Mood disorders	93	100.00	11.38 ± 13.48	1058.48	100.00	1.00	103	100.00	16.75 ± 8.70	1724.80	100.00	1.00
	Total	**93**	**100.00**		**1058.48**	**100.00**		**103**	**100**		**1724.80**	**100**	
Panic disorder	Electrolyte and acid-base disturbances (parenteral)	2	66.67	10.05 ± 0	20.11	73.37	1.10						
	Feeding and nutritional supplements (parenteral)	1	33.33	7.30 ± 0	7.30	26.63	0.80						
	Total	**3**	**100.00**		**27.41**	**100.00**							
Meningitis, bacterial	Anti-infective (cephalosporins)	4	66.67	12.94 ± 6.58	51.76	90.81	1.36						
	Antibacterial (chloramphenicol, erythromycin)	2	33.33	2.62 ± 2.60	5.24	9.19	0.28						
	Total	**6**	**100.00**		**57.00**	**100.00**							
Inflammation	Antipruritic & anti-inflammatory agents	17	12.78	1.83 ± 2.60	31.14	1.25	0.10	42	25.00	3.99 ± 7.80	167.47	20.12	0.80
	Ear and nose preparations							2	1.19	4.16 ± 3.20	8.33	1.00	0.84
	Corticosteroids for topical use	2	1.50	2.85 ± 1.34	5.70	0.23	0.15	6	3.57	1.90 ± 0	11.40	1.37	0.38
	Corticosteroids for systemic use (oral/injection)	110	82.71	21.34 ± 46.44	2314.38	93.23	1.13	117	69.64	5.50 ± 10.39	643.35	77.28	1.11
	Electrolyte and Acid base distrubances (parenteral)							1	0.60	1.90 ± 0	1.90	0.23	0.38
	Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	4	3.01	32.79 ± 55.12	131.17	5.28	1.76						
	Total	**133**	**100.00**		**2482.39**	**100.00**		**168**	**100**		**832.45**	**100**	
Parkinsonism	Antiparkinsonism	7	100.00	22.86 ± 33.44	160.01	100.00	1.00	2	100.00	69.00 ± 0	138.00	100.00	1.00
	Total	**7**	**100.00**		**160.01**	**100.00**		**2**	**100**		**138.00**	**100**	
Symptomatic epilepsy with complex partial seizures	Antibacterial (penicillins)	4	40.00	5.52 ± 2.41	22.09	6.17	0.15						
	Anti-infective (cephalosporins)	4	40.00	84.00 ± 59.40	336.00	93.79	2.34						
	Antibacterial (chloramphenicol, erythromycin)	2	20.00	0.08 ± 0.04	0.17	0.05	0.00						
	Total	**10**	**100.00**		**358.26**	**100.00**							
Epilepsy	Antibacterial (penicillins)	3	2.56	2.25 ± 0.78	6.76	0.28	0.11						
	Corticosteroids for systemic use (oral/injection)	114	97.44	21.00 ± 26.83	2393.71	99.72	1.02						
	Anti-epileptic							181	100.00	22.71 ± 17.36	4110.29	100.00	1.00
	Total	**117**	**100.00**		**2400.47**	**100.00**		**181**	**100.00**		**4110.29**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Status epileptics, unspecified	Anti-infective (cephalosporins)	1	100.00	12.90 ± 0	12.90	100.00	1.00						
	Total	**1**	**100.00**		**12.90**	**100.00**							
Acute inflammation of orbit (cellulites of the eye)	Antibacterial (penicillins)	5	62.50	27.40 ± 37.25	137.01	98.21	1.57						
	Antibacterial (chloramphenicol, erythromycin)	3	37.50	0.83 ± 1.22	2.50	1.79	0.05						
	Total	**8**	**100.00**		**139.51**	**100.00**							
Conjunctivitis	Antibacterial (penicillins)							1	3.70	5.23 ± 0	5.23	2.46	0.66
	Eye preparations (anti-infective)	7	87.50	1.92 ± 0.63	13.44	73.97	0.85	13	48.15	11.23 ± 12.84	145.97	68.64	1.43
	Hypolipidaemic agents	1	12.50	4.73 ± 0	4.73	26.03	2.08	13	48.15	4.73 ± 0	61.46	28.90	0.60
	Total	**8**	**100.00**		**18.17**	**100.00**		**27**	**100.00**		**212.66**	**100**	
Otitis externa	Antibacterial (penicillins)							1	100.00	3.46 ± 0	3.46	100.00	1.00
	Total							**1**	**100.00**		**3.46**	**100**	
Otitis media	Antibacterial (penicillins)	1	20.00	12.19 ± 0	12.19	31.05	1.55						
	Antibacterial (chloramphenicol, erythromycin)	4	80.00	6.77 ± 1.62	27.07	68.95	0.86						
	Total	**5**	**100.00**		**39.26**	**100.00**							
Rheumatic fever without mention of heart involvement	Antibacterial (penicillins)	7	46.67	112.49 ± 220.63	787.42	62.46	1.34						
	Anti-infective (cephalosporins)	4	26.67	117.85 ± 57.16	471.39	37.39	1.40						
	Antibacterial (chloramphenicol, erythromycin)	4	26.67	0.49 ± 0.25	1.96	0.16	0.01						
	Total	**15**	**100.00**		**1260.77**	**100.00**							
Hypertension	Antibacterial (penicillins)	1	0.21	1.15 ± 0	1.15	0.02	0.09						
	Antiviral	3	0.64	26.85 ± 22.97	80.55	1.34	2.10						
	Anti-angina							1	0.23	4.29 ± 0	4.29	0.05	0.22
	Antihypertensive	466	98.94	12.73 ± 41.37	5932.94	98.53	1.00	439	99.77	19.44 ± 43.59	8534.61	99.95	1.00
	Congestive heart failure drugs	1	0.21	6.74 ± 0	6.74	0.11	0.53						
	Total	**471**	**100.00**		6021.38	**100.00**		**440**	**100.00**		**8538.90**	**100**	
Angina	Antibacterial (penicillins)	1	9.09	3.46 ± 0	3.46	7.99	0.88						
	Anti-angina	9	81.82	1.43 ± 1.29	12.87	29.72	0.36	8	100.00	5.15 ± 3.18	41.22	100.00	1.00
	Anti-epileptic	1	9.09	26.98 ± 0	26.98	62.30	6.85						
	Total	11	**100.00**		**43.31**	**100.00**		**8**	**100**		**41.22**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Congestive cardiac failure	Antibacterial (penicillins)	8	61.54	92.83 ± 101.57	742.61	99.08	1.61						
	Antibacterial (chloramphenicol, erythromycin)	5	38.46	1.38 ± 0.72	6.90	0.92	0.02						
	Total	**13**	**100.00**		**749.51**	**100.00**							
Cardial failure	Congestive heart failure drugs	14	100.00	2.71 ± 2.23	37.88	100.00	1.00	17	100.00	3.89 ± 1.11	66.13	100.00	1.00
	Total	**14**	**100.00**		**37.88**	**100.00**		**17**	**100**		**66.13**	**100**	
Arteriosclerotic gangerene	Antibacterial (penicillins)	2	100.00	89.41 ± 81.26	178.81	100.00	1.00						
	Total	**2**	**100.00**		**178.81**	**100.00**							
Haemorrhoids	Antibacterial (penicillins)							1	9.09	15.60 ± 0	15.60	10.93	1.20
	Antibacterial (chloramphenicol, erythromycin)							1	9.09	1.12 ± 0	1.12	0.78	0.09
	Antihemmorrhoidal	6	100.00	7.74 ± 5.68	46.43	100.00	1.00	9	81.82	14.00 ± 0.22	125.96	88.28	1.08
	Total	**6**	**100.00**		**46.43**	**100.00**		**11**	**100**		**142.68**	**100**	
Sinusitis	Antibacterial (penicillins)	1	33.33	5.76 ± 0	5.76	70.85	2.13	1	4.35	18.39 ± 0	18.39	22.88	5.26
	Ear and nose preparations	1	33.33	0.02 ± 0	0.02	0.25	0.01	13	56.52	3.11 ± 1.28	40.37	50.22	0.89
	Decongestants (cold/flu)	1	33.33	2.35 ± 0	2.35	28.91	0.87	9	39.13	2.40 ± 0.15	21.62	26.90	0.69
	Total	**3**	**100.00**		**8.13**	**100.00**		**23**	**100**		**80.38**	**100**	
Tonsillitis (bacterial)	Antibacterial (penicillins)	8	80.00	13.88 ± 16.21	111.00	61.43	0.77	4	80.00	8.15 ± 4.49	32.58	65.98	0.82
	Anti-infective (cephalosporins)	2	20.00	34.85 ± 23.14	69.69	38.57	1.93						
	Antibacterial (chloramphenicol, erythromycin)							1	20.00	16.80 ± 0	16.80	34.02	1.70
	Total	**10**	**100.00**		**180.69**	**100.00**		**5**	**100**		**49.38**	**100**	
Gastro-enteritis	Antibacterial (penicillins)	5	100.00	5.86 ± 5.20	29.32	100.00	1.00						
	Total	**5**	**100.00**		**29.32**	**100.00**							
Acute upper respiratory track infection, unspecified	Antibacterial (penicillins)	2	100.00	7.66 ± 4.89	15.31	100.00	1.00	14	87.50	6.82 ± 6.77	95.50	90.22	1.03
	Anti-infective (cephalosporins)							1	6.25	9.24 ± 0	9.24	8.73	1.40
	Antibacterial (chloramphenicol, erythromycin)							1	6.25	1.11 ± 0	1.11	1.05	0.17
	Total	**2**	**100.00**		**15.31**	**100.00**		**16**	**100**		**105.85**	**100**	
Brongopneomonia, unspecified	Antibacterial (penicillins)	36	80.00	13.43 ± 25.91	483.37	34.08	0.43	1	100.00	3.46 ± 0	3.46	100.00	1.00
	Anti-infective (cephalosporins)	2	4.44	462.00 ± 534.57	924.00	65.16	14.66						

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Brongopneomonia, *unspecified*	Antibacterial (chloramphenicol, erythromycin)	7	15.56	1.54 ± 1.46	10.78	0.76	0.05						
	Total	**45**	**100.00**		**1418.15**	**100.00**		**1**	**100**		**3.46**	**100**	
Pneumonia, unspecified	Antibacterial (penicillins)	52	61.18	51.32 ± 71.06	2668.60	78.46	1.28						
	Anti-infective (cephalosporins)	5	5.88	135.07 ± 131.16	675.37	19.86	3.38						
	Antibacterial (chloramphenicol, erythromycin)	28	32.94	2.04 ± 3.51	57.03	1.68	0.05						
	Total	**85**	**100.00**		**3401.00**	**100.00**							
Allergic rhinitis	Antihistamines for systemic use							1	100.00	2.19 ± 0	2.19	100.00	1.00
	Total							**1**	**100**		**2.19**	**100**	
Chronic obstructive pulmonary disease with acute lower respiratory infection	Antibacterial (penicillins)	25	71.43	12.18 ± 21.66	304.42	53.93	0.75	4	80.00	3.23 ± 0.96	12.94	92.03	1.15
	Anti-infective (cephalosporins)	2	5.71	126.00 ± 59.40	252.00	44.64	7.81						
	Antibacterial (chloramphenicol, erythromycin)	8	22.86	1.01 ± 0.87	8.07	1.43	0.06	1	20.00	1.11 ± 0	1.12	7.97	0.40
	Total	**35**	**100.00**		**564.49**	**100.00**		**5**	**100**		**14.06**	**100**	
Asthma, acute OR asthma, chronic persistent	Antibacterial (penicillins)	1	0.68	3.46 ± 0	3.46	0.29	0.43						
	Corticosteroids for systemic use (oral/injection)	31	20.95	7.27 ± 13.39	225.25	18.99	0.91	24	15.79	6.38 ± 8.09	153.10	7.84	0.50
	Anti-asthmatic & mucolytics	116	78.38	8.25 ± 12.22	957.45	80.72	1.03	128	84.21	14.05 ± 12.40	1798.70	92.16	1.09
	Total	**148**	**100.00**		**1186.16**	**100.00**		**152**	**100**		**1951.80**	**100**	
Abscess of the lung without pneumonia	Antibacterial (penicillins)	12	54.55	67.97 ± 90.07	815.68	90.12	1.65						
	Anti-infective (cephalosporins)	1	4.55	64.70 ± 0	64.70	7.15	1.57						
	Antibacterial (chloramphenicol, erythromycin)	9	40.91	2.75 ± 5.33	24.76	2.74	0.07						
	Total	**22**	**100.00**		**905.14**	**100.00**							
Haemothorax	Antibacterial (penicillins)	2	100.00	10.93 ± 10.56	21.85	100.00	1.00						
	Total	**2**	***100.00***		**21.85**	***100.00***							
Dental abscess	Antibacterial (penicillins)	1	11.11	2.16 ± 0	2.61	31.52	2.84	3	9.38	1.90 ± 0.67	5.71	12.39	1.32
	Antibacterial (chloramphenicol, erythromycin)	1	11.11	0.05 ± 0	0.05	0.60	0.05	2	6.25	3.87 ± 3.89	7.74	16.80	2.69
	Mouthwash & throat preparations	7	77.78	0.80 ± 0.49	5.62	67.87	0.87	27	84.38	1.21 ± 0.13	32.62	70.81	0.84
	Total	**9**	**100.00**		**8.28**	**100.00**		**32**	**100**		**46.07**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Mouth abscess	Antibacterial (penicillins)	14	63.64	39.96 ± 78.43	559.45	58.92	0.93	4	57.14	5.64 ± 6.64	22.57	69.34	1.21
	Anti-infective (cephalosporins)	2	9.09	192.99 ± 194.51	385.99	40.65	4.47						
	Antibacterial (chloramphenicol, erythromycin)	6	27.27	0.69 ± 0.80	4.13	0.43	0.02	3	42.86	3.33 ± 2.91	9.98	30.66	0.72
	Total	**22**	**100.00**		**949.57**	**100.00**		**7**	**100**		**32.55**	**100**	
Peptic ulcer	Antibacterial (penicillins)	8	53.33	74.47 ± 81.29	595.77	99.14	1.86						
	Antibacterial (chloramphenicol, erythromycin)	7	46.67	0.74 ± 0.75	5.17	0.86	0.02						
	Total	**15**	**100.00**		**600.94**	**100.00**							
Gastritis - acute, haemorrhagic	Antibacterial (penicillins)	17	68.00	25.72 ± 58.42	437.25	97.86	1.44						
	Antibacterial (chloramphenicol, erythromycin)	8	32.00	1.20 ± 0.95	9.57	2.14	0.07						
	Total	**25**	**100.00**		**446.82**	**100.00**							
Appendicitis, unspecified	Antibacterial (penicillins)	2	66.67	71.66 ± 83.27	143.32	99.85	1.50						
	Antibacterial (chloramphenicol, erythromycin)	1	33.33	0.22 ± 0	0.22	0.15	0.00						
	Total	**3**	**100.00**		**143.54**	**100.00**							
Urinary tract infection	Antibacterial (penicillins)	1	33.33	2.53 ± 0	2.53	34.47	1.03						
	Antibacterial (chloramphenicol, erythromycin)	2	66.67	2.41 ± 3.01	4.81	65.53	0.98						
	Total	**3**	**100.00**		**7.34**	**100.00**							
Constipation	Antibacterial (penicillins)	6	17.14	91.42 ± 120.64	548.51	77.52	4.52						
	Antibacterial (chloramphenicol, erythromycin)	4	11.43	2.19 ± 1.76	8.76	1.24	0.11						
	Cathartic drug / laxative	17	48.57	7.49 ± 8.68	127.28	17.99	0.37	4	40.00	6.20 ± 4.10	24.79	44.44	1.11
	Constipation, digestants, liver & bile preparations	8	22.86	2.88 ± 1.48	23.02	3.25	0.14	6	60.00	5.16 ± 1.81	30.99	55.56	0.93
	Total	**35**	**100.00**		**707.57**	**100.00**		**10**	**100**		**55.78**	**100**	
Alcohol liver disease, unspecified	Antibacterial (penicillins)	2	50.00	171.04 ± 219.65	342.09	98.96	1.98						
	Antibacterial (chloramphenicol, erythromycin)	2	50.00	1.80 ± 1.53	3.60	1.04	0.02						
	Total	**4**	**100.00**		**345.69**	**100.00**							

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		*n*	%*	Mean & std dev	R	%**	
Gastro-intestinal haemorrhage, unspecified	Antibacterial (penicillins)	1	50.00	2.99 ± 0	2.99	88.99	1.78						
	Antibacterial (chloramphenicol, erythromycin)	1	50.00	0.37 ± 0	0.37	11.01	0.22						
	Total	**2**	**100.00**		**3.36**	**100.00**							
Abdominal cramps	Antibacterial (penicillins)	4	12.90	19.88 ± 30.79	79.50	45.57	3.53	1	4.76	3.46 ± 0	3.46	4.81	1.01
	Antibacterial (chloramphenicol, erythromycin)	1	3.23	0.15 ± 0	0.15	0.09	0.03						
	Muscle relaxant (central & peripherally acting)							1	4.76	4.93 ± 0	4.93	6.86	1.44
	Anti-emetic	2	6.45	11.30 ± 14.14	22.60	12.96	2.01						
	Antispasmodics & Anticholinergics	24	77.42	3.01 ± 3.89	72.19	41.38	0.53	19	90.48	3.34 ± 4.20	63.50	88.33	0.98
	Total	**31**	**100.00**		**174.44**	**100.00**		**21**	**100**		**71.89**	**100**	
Boils / impetigo	Antibacterial (penicillins)	2	66.67	1.50 ± 1.57	3.01	17.36	0.26	1	100.00	2.61 ± 0	2.61	100.00	1.00
	Anti-infective (cephalosporins)	1	33.33	14.33 ± 0	14.33	82.64	2.48						
	Total	**3**	**100.00**		**17.34**	**100.00**		**1**	**100**		**2.61**	**100**	
Unspecified cellulites	Antibacterial (penicillins)	10	100.00	47.22 ± 44.70	472.15	100.00	1.00						
	Total	**10**	**100.00**		**272.15**	**100.00**							
Dermatitis herpetiformis	Antibacterial (Penicillin's)	3	33.33	30.63 ± 23.01	91.88	93.36	2.80						
	Antibacterial (chloramphenicol, erythromycin)	6	66.67	1.09 ± 0.95	6.53	6.64	0.10						
	Total	**9**	**100.00**		**98.41**	**100.00**							
Rash	Antipruritic & anti-inflammatory agents	1	100.00	1.22 ± 0	1.22	100.00	1.00						
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays							2	66.67	0.83 ± 0	1.66	12.40	0.19
	Corticosteroids for topical use							1	33.33	11.73 ± 0	11.73	87.60	2.63
	Total	**1**	**100.00**		**1.22**	**100.00**		**3**	**100**		**13.39**	**100**	
Pruritus	Antipruritic & anti-inflammatory agents							12	80.00	2.15 ± 1.13	25.81	77.25	0.97
	Corticosteroids for topical use							3	20.00	2.53 ± 1.10	7.60	22.75	1.14
	Total							**15**	**100**		**33.41**	**100**	

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Psoriasis	Cancer Chemotherapy							12	100.00	9.07 ± 4.44	108.80	100.00	1.00
	Total							**12**	**100**		**108.80**	**100**	
Septic Arthritis, acute	Antibacterial (penicillins)	6	42.86	55.57 ± 64.13	333.43	86.91	2.03						
	Anti-infective (cephalosporins)	2	14.29	18.49 ± 0	36.97	9.64	0.67						
	Antibacterial (chloramphenicol, erythromycin)	6	42.86	2.21 ± 2.43	13.25	3.45	0.08						
	Total	**14**	**100.00**		**383.65**	**100.00**							
Gout	Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	5	100.00	19.95 ± 27.59	99.74	100.00	1.00	3	100.00	9.90 ± 3.24	29.71	100.00	1.00
	Total	**5**	**100.00**		**99.74**	**100.00**		**3**	**100**		**29.71**	**100**	
Muscle relaxant	Muscle relaxant (central & peripherally acting)	16	100.00	2.78 ± 2.86	44.51	100.00	1.00	19	100.00	4.74 ± 0.81	90.05	100.00	1.00
	Total	**16**	**100.00**		**44.51**	**100.00**		**19**	**100**		**90.05**	**100**	
Nephritis	Antibacterial (penicillins)	3	60.00	85.82 ± 124.01	257.47	99.42	1.66						
	Antibacterial (Chloramphenicol, Erythromycins)	2	40.00	0.75 ± 0.53	1.49	0.58	0.01						
	Total	**5**	**100.00**		**258.96**	**100.00**							
Chronic obstructive pyelonephritis	Antibacterial (Penicillin's)	1	33.33	97.91 ± 0	97.91	91.10	2.73						
	Anti-infective (cephalosporins)	1	33.33	9.24 ± 0	9.24	8.60	0.26						
	Antibacterial (chloramphenicol, erythromycin)	1	33.33	0.33 ± 0	0.33	0.31	0.01						
	Total	**3**	**100.00**		**107.48**	**100.00**							
Urinary track infection, uncomplicated	Antibacterial (penicillins)	10	71.43	25.68 ± 32.99	256.84	98.06	1.37	12	54.55	10.30 ± 13.85	123.64	77.06	1.41
	Antibacterial (chloramphenicol, erythromycin)	4	28.57	1.27 ± 0.69	5.08	1.94	0.07	10	45.45	3.68 ± 4.79	36.81	22.94	0.50
	Total	**14**	**100.00**		**261.92**	**100.00**		**22**	**100**		**160.45**	**100**	
Benign prostatic *hyperplasia*	Antibacterial (penicillins)	2	100.00	13.39 ± 16.06	26.79	100.00	1.00						
	Total	**2**	**100.00**		**26.79**	**100.00**							
Pelvic inflammation disease	Antibacterial (penicillins)	4	66.67	45.59 ± 67.64	182.35	99.82	1.50						
	Antibacterial (chloramphenicol, erythromycin)	2	33.33	0.17 ± 0.18	0.33	0.18	0.01						
	Total	**6**	**100.00**		**182.68**	**100.00**							

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Bartholin's abscess	Antibacterial (penicillins)	4	57.14	53.14 ± 95.25	212.56	98.61	1.73						
	Antibacterial (chloramphenicol, erythromycin)	3	42.86	1.00 ± 1.07	3.00	1.39	0.03						
	Total	**7**	**100.00**		**215.56**	**100.00**							
Vaginal bleeding	Antibacterial (penicillins)	1	100.00	9.48 ± 0	9.48	100.00	1.00						
	Total	**1**	**100.00**		**9.48**	**100.00**							
Abortion, complicated, therapeutic, legal	Antibacterial (penicillins)	15	44.12	48.57 ± 71.54	728.51	78.65	1.78						
	Anti-infective (cephalosporin)	3	8.82	47.15 ± 32.83	141.46	15.27	1.73						
	Antibacterial (chloramphenicol, erythromycin)	13	38.24	1.84 ± 2.63	23.91	2.58	0.07	34	68.00	1.40 ± 0.30	47.70	18.83	0.28
	Antacid / anti-ulcer	3	8.82	10.78 ± 6.26	32.35	3.49	0.40	15	30.00	12.95 ± 1.03	194.29	76.71	2.56
	Cathartic drug / laxative							1	2.00	11.30 ± 0	11.30	4.46	2.23
	Total	**34**	**100.00**		**926.23**	**100.00**		**50**	**100**		**253.29**	**100**	
Abscess of the breast	Antibacterial (penicillins)	4	66.67	59.33 ± 81.38	237.33	99.35	1.49						
	Antibacterial (chloramphenicol, erythromycin)	2	33.33	0.78 ± 0.48	1.56	0.65	0.02						
	Total	**6**	**100.00**		**238.89**	**100.00**							
Congenital malformations of heart, unspecified	Antibacterial (chloramphenicol, erythromycin)	1	100.00	4.53 ± 0	4.53	100.00	1.00						
	Total	**1**	**100.00**		**4.53**	**100.00**							
Cough	Antibacterial (chloramphenicol, erythromycin)							1	2.04	2.23 ± 0	2.23	2.00	0.98
	Cough mixture	22	100.00	1.70 ± 0.72	37.49	100.00	1.00	48	97.96	2.27 ± 0.55	109.11	98.00	1.00
	Total	**22**	**100.00**		**37.49**	**100.00**		**49**	**100**		**111.34**	**100**	
Gastro diarrhoea	Antibacterial (penicillins)	1	33.33	0.26 ± 0	0.26	70.27	2.11						
	Antibacterial (chloramphenicol, erythromycin)	2	66.67	00.06 ± 0.03	0.11	29.73	0.45						
	Total	**3**	**100.00**		**0.37**	**100.00**							
Nausea	Antibacterial (penicillins)	1	0.92	18.39 ± 0	18.39	3.91	4.26						
	Antibacterial (chloramphenicol, erythromycin)	2	1.83	4.89 ± 5.90	9.78	2.08	1.13						

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Nausea	Anti-emetic	106	97.25	4.17 ± 6.29	442.46	94.01	0.97	48	100.00	1.43 ± 0.95	68.60	100.00	1.00
	Total	**109**	**100.00**		**470.63**	**100.00**		**48**	**100**		**68.60**	**100**	
Pain control	Antibacterial (chloramphenicol, *erythromycin*)	1	0.09	1.12 ± 0	1.12	0.00	0.04						
	Eye preparations (local anaesthetic)							1	0.07	60.00 ± 0	60.00	0.33	4.58
	Corticosteroids for systemic use (oral/injection)	2	0.18	4.21 ± 5.85	8.42	0.03	0.16						
	Antimigraine agent	3	0.27	19.80 ± 0	59.40	0.21	0.77	1	0.07	19.80 ± 0	19.80	0.11	1.51
	Vitamin & mineral	2	0.18	0.61 ± 0.78	1.22	0.00	0.02						
	Anesthetics (local)	4	0.36	14.90 ± 0	59.62	0.21	0.58	8	0.58	14.90 ± 0	119.23	0.65	1.14
	Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	1018	92.63	27.10 ± 133.02	27591.05	97.21	1.05	1377	98.99	13.09 ± 35.87	18022.71	98.86	1.00
	Analgesics (opioids) / narcotic analgesics	69	6.28	9.59 ± 10.57	661.94	2.33	0.37	4	0.29	2.02 ± 2.38	8.06	0.04	0.15
	Total	**1099**	**100.00**		**28382.77**	**100.00**		**1391**	**100**		**18229.80**	**100**	**1.00**
Anaphylactic shock / shock	Anti-allergics & anaphylaxis	1	100.00	0.94 ± 0	0.94	100.00	1.00						
	Total	**1**	**100.00**		**0.94**	**100.00**							
Feeding supplement	Feeding and nutritional supplements (parenteral)	1	100.00	7.30 ± 0	7.30	100.00	1.00						
	Total	**1**	**100.00**		**7.30**	**100.00**							
Wound caring	Antibacterial (penicillins)	1	100.00	59.64 ± 0	59.64	100.00	1.00						
	Total	**1**	**100.00**		**59.64**	**100.00**							
Foreign body in ear (wax)	Scabicides & pediculocides							1	6.67	2.75 ± 0	2.75	2.11	0.32
	Hypolipidaemic agents							1	6.67	4.73 ± 0	4.73	3.64	0.55
	Ear and nose preparations	3	100.00	11.35 ± 9.78	34.06	100.00	1.00	13	86.67	9.43 ± 9.68	122.63	94.25	1.09
	Total	**3**	**100.00**		**34.06**	**100.00**		**15**	**100**		**130.11**	**100**	
Amputation of upper limb, level unspecified	Antibacterial (penicillins)	5	71.43	10.68 ± 17.08	53.40	99.94	1.40						
	Antibacterial (chloramphenicol, erythromycin)	2	28.57	0.02 ± 0.02	0.03	0.06	0.00						
	Total	**7**	**100.00**		**53.43**	**100.00**							

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Burns, complicated	Antibacterial (penicillins)							1	100.00	3.46 ± 0	3.46	100.00	1.00
	Total							**1**	**100**		**3.46**	**100**	
Toxic effect of Petroleum products	*Antibacterial (penicillins)*							1	100.00	2.61 ± 0	2.61	100.00	1.00
	Total							**1**	**100**		**2.61**	**100**	
Bites and Stings	Antibacterial (penicillins)	3	75.00	55.34 ± 51.44	166.03	99.89	1.33						
	Antibacterial (chloramphenicol, erythromycin)	1	25.00	0.19 ± 0	0.19	0.11	0.00						
	Total	**4**	**100.00**		**166.22**	**100.00**							
Parafien poisoning	Antibacterial (penicillins)	2	100.00	0.51 ± 0.56	1.03	100.00	1.00						
	Total	**2**	**100.00**		**1.03**	**100.00**							
Rape	Antibacterial (penicillins)							2	33.33	257.37 ± 0	514.74	98.90	2.97
	Antibacterial (chloramphenicol, erythromycin)	3	100.00	2.84 ± 4.10	8.52	100.00	1.00	4	66.67	1.43 ± 0.21	5.71	1.10	0.02
	Total	**3**	**100.00**		**8.52**	**100.00**		**6**	**100**		**520.45**	**100**	
Antihistamine for allergies	Antibacterial (penicillins)	2	5.13	4.85 ± 4.68	9.70	7.46	1.45						
	Hypolipidaemic agents							1	1.00	4.73 ± 0	4.73	2.44	2.44
	Corticosteroids for topical use							1	1.00	1.90 ± 0	1.90	0.98	0.98
	Corticosteroids for systemic use (oral/injection)	2	5.13	35.66 ± 25.21	71.31	54.81	10.69	7	7.00	0.30 ± 0.16	2.09	1.08	0.15
	Hypnotic / sedative	3	7.69	0.77 ± 1.15	2.32	1.78	0.23						
	Antihistamines for systemic use	32	82.05	1.46 ± 0.81	46.77	35.95	0.44	91	91.00	2.04 ± 0.79	185.37	95.51	1.05
	Total	**39**	**100.00**		**130.10**	**100.00**		**100**	**100**		**194.09**	**100**	
Failed or difficult intubations	Hypnotic / sedative	2	100.00	0.75 ± 0.43	1.49	100.00	1.00						
	Total	**2**	**100.00**		**1.49**	**100.00**							
Sedation	Hypnotic / sedative	34	100.00	0.57 ± 0.82	19.28	100.00	1.00	10	100.00	0.46 ± 0.34	4.57	100.00	1.00
	Total	**34**	**100.00**		**19.28**	**100.00**		**10**	**100**		**4.57**	**100**	
Unknown diagnosis	Antibacterial (penicillins)	3	8.57	12.08 ± 18.14	36.24	5.99	0.70						
	Anti-infective (cephalosporins)	2	5.71	41.59 ± 19.61	83.19	13.75	2.41						
	Antibacterial (chloramphenicol, erythromycin)	2	5.71	0.67 ± 0.63	1.34	0.22	0.04						

Appendix D.22: Average cost per medicine item according to pharmacological groups and ICD-10 codes (continue)

ICD-10 code	Pharmacological group	Inpatient						Outpatient					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		*n*	%*	Mean & std dev	R	%**	
Unknown diagnosis	Antifungal (topical)	2	5.71	16.53 ± 0	33.06	5.47	0.96	1	3.57	16.53 ± 0	16.53	3.18	0.89
	Antiseptic, antiviral, keratoplastic & keratolytic agents	5	14.29	38.04 ± 48.62	190.21	31.45	2.20	11	39.29	18.57 ± 10.87	204.22	39.25	1.00
	Keratoplastic & keratolytic agents							1	3.57	18.23 ± 0	18.23	3.50	0.98
	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	10	28.57	2.27 ± 3.15	22.75	3.76	0.13	13	46.43	20.20 ± 68.75	262.66	50.48	1.09
	Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	4	11.43	9.34 ± 8.80	37.37	6.18	0.54	2	7.14	9.34 ± 10.78	18.69	3.59	0.50
	Eye preparations (anti-infective)	3	8.57	9.09 ± 7.08	27.28	4.51	0.53						
	Other gastrolytes	3	8.57	57.60 ± 62.35	172.80	28.57	**3.33**						
	Analgesics, non opioids including NSAIMs, gold and anti-gout preparations	1	2.86	0.56 ± 0	0.56	0.09	0.03						
	Total	**35**	**100.00**		**604.80**	**79.94**		**28**	**100**		**520.33**	**100**	
Hormone replacement therapy	Hormone, androgen, oestrogen & progesterone	2	100.00	13.53 ± 1.60	27.06	100.00	1.00	10	100.00	16.46 ± 12.84	164.61	100.00	1.00
	Total	**2**	**100.00**		**27.06**	**100.00**		**10**	**100**		**164.61**	**100**	
Immunisation	Vaccines	10	100.00	3.71 ± 6.17	37.14	100.00	1.00	25	100.00	1.27 ± 0.43	31.83	100.00	1.00
	Total	**10**	**100.00**		**37.14**	**100.00**		**25**	**100**		**31.83**	**100**	
Family planning	Anti-infective (cephalosporins)	1	10.00	594.95 ± 0	594.95	74.07	7.41						
	Contraceptive (barrier method)	1	10.00	0 ± 0	0.00	0.00	0.00						
	Contraceptive (injectable)	1	10.00	113.92 ± 0	113.92	14.18	1.42	2	66.67	56.96 ± 0	113.92	85.47	1.28
	Contraceptive (oral)	2	20.00	22.27 ± 3.52	44.54	5.55	0.28	1	33.33	19.37 ± 0	19.37	14.53	0.44
	Oxytoxins and other obstetric drugs	5	50.00	9.96 ± .47	49.82	6.20	0.12						
	Total	**10**	**100.00**		**803.23**	**100.00**		**3**	**100**		**133.29**	**100**	
Post partum bleeding	Anti-infective (cephalosporins)	1	100.00	66.11 ± 0	66.11	100.00	1.00						
	Total	**1**	**100.00**		**66.11**	**100.00**							

* Percentage was calculated for pharmacological groups according to the total number of medicine items dispensed to inpatients and outpatients for the different ICD-10 codes respectively

** Percentage was calculated for pharmacological groups according to the total cost for inpatients and outpatients for the different ICD-10 codes respectively

Appendix D.23: Total cost of top 10 pharmacological groups

Pharmacological group	Inpatients			Pharmacological group	Outpatients		
	Rank	Cost	%*		Rank	Cost	%*
Antibacterial (penicillins)	1	32735.43	26.90	Antiviral	1	45708.45	44.39
Analgesics, non opioids including NSAIMs, gold & anti-gout preparations	2	27895.35	22.92	Analgesics, non opioids including NSAIMs, gold & anti-gout preparations	2	18197.17	17.67
Anti-infective (cephalosporins)	3	15825.63	13.00	Antihypertensive	3	8534.61	8.29
Antiviral	4	9293.36	7.64	Antibacterial (penicillins)	4	4746.85	4.61
Antihypertensive	5	5932.94	4.87	Anti-epileptic	5	4110.29	3.99
Antithrombotic and anticoagulants	6	5252.40	4.32	Anti-infective (Chloramphenicol, erythromycin)	6	3804.45	3.69
Antihypoglycaemic agents	7	3293.22	2.71	Anti-asthmatic & mucolytics	7	1798.70	1.75
Antituberculosis	8	2819.49	2.32	Mood disorder	8	1724.80	1.68
Corticosteroids for systemic use (oral/injection)	9	2619.36	2.15	Vaccines	9	1653.67	1.61
Anti-epileptic	10	2420.69	1.99	Anti-diabeitc agents (injection)	10	1459.49	1.42
Total of top 10 pharmacological groups		**108087.87**	**88.81**	**Total of top 10 pharmacological groups**		**91738.48**	**89.10**
Total of all pharmacological groups		**121711.94**	**100.00**	**Total of all pharmacological groups**		**102965.16**	**100.00**

* Percentage was calculated for pharmacological groups according to the total cost for inpatients and outpatients respectively

Appendix D.24: Average cost per medicine item according to therapeutic codes

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Amoxycillin Caps 250mg 15s	13	0.21	1.36 ± 0.58	17.67	0.01	0.07	18	0.33	2.38 ± 2.87	42.81	0.04	0.13
Amoxycillin Caps 500mg 15s	70	1.11	2.82 ± 1.52	197.09	0.16	0.15	101	1.84	3.48 ± 0.37	351.07	0.34	0.19
Amoxycillin Susp 125mg/5ml 100ml	38	0.60	2.22 ± 0.87	84.17	0.07	0.11	26	0.47	2.17 ± 0.51	70.58	0.07	0.14
Amoxycillin Susp 250mg/5ml 100ml	5	0.08	3.83 ± 0	19.16	0.02	0.20	3	0.05	3.83 ± 0	11.50	0.01	0.20
Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	32	0.51	105.29 ± 69.77	3369.22	2.77	**5.44**						
Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	10	0.16	12.19 ± 0	121.90	0.10	0.63	10	0.18	11.23 ± 3.03	112.32	0.11	0.60
Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	87	1.38	18.27 ± 3.36	1589.22	1.31	0.94	66	1.20	17.20 ± 4.20	1135.30	1.10	0.92
Ampicillin Inj 250mg	91	1.45	11.24 ± 12.40	1023.11	0.84	0.58						
Ampicillin Inj 500mg	147	2.34	121.70 ± 100.80	17889.42	**14.70**	**6.29**	2	0.04	16.32 ± 0	32.64	0.03	0.87
Benzathine Penicillin G Inj. 2.4Mu Vials	4	0.06	25.84 ± 27.71	103.36	0.08	1.33	6	0.11	11.98 ± 0	71.90	0.07	0.64
Benzylpenicillin G Inj 1Mu 50s	3	0.05	22.96 ± 18.58	68.88	0.06	1.19						
Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	4	0.06	218.76 ± 77.21	875.05	0.72	**11.30**	6	0.11	180.16 ± 84.58	1080.95	1.05	**9.59**
Ciprofloxacin Tabs 500mg 10s	28	0.45	1.15 ± 0.93	32.22	0.03	0.06	46	0.84	1.12 ± 1.23	51.74	0.05	0.06
Clindamycin Caps 150mg 100s							2	0.04	22.94 ± 15.36	45.88	0.04	1.22
Cloxacillin IV Inj 500mg	20	0.32	73.70 ± 45.23	1473.96	1.21	**3.81**						
Co-Trimoxazole for IV Infus 480mg 5ml	8	0.13	5.20 ± 4.01	41.58	0.03	0.27						
Flucloxacillin Caps 250mg 20s	33	0.52	12.82 ± 6.34	423.04	0.35	0.66	24	0.44	16.57 ± 7.02	397.70	0.39	0.88
Flucloxacillin Susp 125mg 100ml	1	0.02	9.48 ± 0	9.48	0.01	0.49						
Fluconazole Caps 50mg 14s	3	0.05	99.51 ± 55.24	298.54	0.25	**5.14**						
Fluconazole Caps 200mg 28s	11	0.17	15.05 ± 14.08	165.53	0.14	0.78	1	0.02	86.75 ± 0	86.75	0.08	**4.62**
Fluconazole Inj for IV Infus 2mg/ml 100ml	8	0.13	187.11 ± 189.55	1496.88	1.23	**9.67**						
Gentamicin Inj 40mg/ml 1ml	85	1.35	3.13 ± 3.06	265.77	0.22	0.16	2	0.04	4.73 ± 5.20	9.45	0.01	0.25

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Gentamicin Inj 80mg/2ml 2ml	126	2.00	17.07 ± 11.13	2150.59	1.77	0.88	2	0.04	2.13 ± 0	4.26	0.00	0.11
Ketoconazole Tabs 200mg 30s	20	0.32	40.21 ± 37.20	804.29	0.66	**2.08**	15	0.27	58.89 ± 29.79	883.38	0.86	**3.14**
Nalidixic Acid Susp 250mg/ml 100ml	1	0.02	27.33 ± 0	27.33	0.02	1.41						
Nalidixic Acid Tabs 500mg 100s	3	0.05	25.95 ± 5.29	77.85	0.06	1.34	4	0.07	40.1 ± 11.47	160.39	0.16	**2.14**
Nitrofurantoin Caps 100mg 50s	4	0.06	21.04 ± 10.47	84.15	0.07	1.09	1	0.02	16.50 ± 0	16.50	0.02	0.88
Phenoxymethyl Penicillin Susp 250mg/5ml 100ml							1	0.02	3.17 ± 0	3.17	0.00	0.17
Phenoxymethyl Penicillin Tabs 250mg 20s	4	0.06	5.68 ± 3.42	22.70	0.02	0.29	6	0.11	4.73 ± 3.02	28.38	0.03	0.25
Phenoxymethyl Penicillin Tabs 250mg 100s							1	0.02	10.04 ± 0	10.04	0.01	0.53
Nitrofurantoin Caps 100mg 30s	1	0.02	3.27 ± 0	3.27	0.00	0.17	5	0.09	28.03 ± 12.28	140.16	0.14	1.49
Fluconazole Susp 50mg/5ml 35ml	1	0.02	0.001 ± 0	0.00	0.00	0.00						
Cefazolin Inj 500mg	10	0.16	429.69 ± 370.36	4296.89	**3.53**	**22.20**	2	0.04	49.58 ± 23.37	99.16	0.10	**2.64**
Cefotaxime Inj 500mg	1	0.02	51.21 ± 0	51.21	0.04	**2.65**						
Cefotaxime Inj 1g/15ml	2	0.03	13.62 ± 1.01	27.23	0.02	0.70	1	0.02	7.17 ± 0	7.17	0.01	0.38
Ceftriaxone IM Inj 250mg	30	0.48	312.20 ± 301.93	9366.00	**7.70**	**16.13**	2	0.04	84.00 ± 0	168.00	0.16	**4.47**
Ceftriaxone Inj 1g	57	0.91	36.57 ± 38.32	2084.30	1.71	1.89	10	0.18	10.17 ± 2.92	101.67	0.10	0.54
Co-trimoxazole Tabs 480mg 20s	111	1.77	1.58 ± 1.58	175.24	0.14	0.08	41	0.75	2.74 ± 1.17	112.17	0.11	0.15
Co-trimoxazole Tabs 400mg 1000's							1	0.02	0.03 ± 0	0.03	0.00	0.00
Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	62	0.99	4.90 ± 1.64	303.97	0.25	0.25	178	3.25	4.68 ± 0.92	833.68	0.81	0.25
Co-trimoxazole Susp 200/40mg/5ml 50ml	103	1.64	1.61 ± 2.57	166.09	0.14	0.08	22	0.40	5.04 ± 5.98	110.79	0.11	0.27
Co-trimoxazole Syr 200/40mg/5ml 100ml	8	0.13	3.06 ± 1.80	24.48	0.02	0.16	10	0.18	4.03 ± 144	40.26	0.04	0.21
Doxycycline Caps 100mg 14s	20	0.32	1.36 ± 0.66	27.20	0.02	0.07	70	1.28	23.86 ± 185.54	1670.34	1.62	1.27
Erythromycin Susp 125mg/5ml 100ml	4	0.06	6.30 ± 2.22	25.19	0.02	0.33	1	0.02	7.41 ± 0	7.41	0.01	0.39
Erythromycin IV Inj 1g	1	0.02	484.73 ± 0	484.73	0.40	**25.04**						
Erythromycin Tabs 250mg 20s	17	0.27	10.48 ± 5.74	178.08	0.15	0.54	24	0.44	18.55 ± 7.42	445.21	0.43	0.99
Erythromycin Tabs 250mg 100s							1	0.02	33.60 ± 0	33.60	0.03	1.79

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Erythromycin Tabs 250mg 56s							1	0.02	4.53 ± 0	4.53	0.00	0.24
Metronidazole IV Inj 500mg/ml 100ml	115	1.83	0.27 ± 0.19	30.91	0.03	0.01	11	0.20	29.58 ± 19.40	325.35	0.32	1.58
Metronidazole Tabs 200mg 21s	111	1.77	1.42 ± 0.94	158.73	0.13	0.07	87	1.59	1.60 ± 0.58	138.88	0.13	0.09
Metronidazole Tabs 200mg 60s							1	0.02	40.11 ± 0	40.11	0.04	**2.14**
Metronidazole Susp 200mg/5ml 50ml							6	0.11	6.62 ± 0	39.74	0.04	0.35
Metronidazole Susp 200mg/5ml 100ml							1	0.02	1.83 ± 0	1.83	0.00	0.10
Spectinomycin Inj 400mg/ml 2g 5ml	1	0.02	27.63 ± 0	27.63	0.02	1.43						
Metronidazole Tabs 200mg 10s							1	0.02	0.53 ± 0	0.53	0.00	0.03
Acyclovir Cream 5% 2g	1	0.02	3.09 ± 0	3.09	0.00	0.16	5	0.09	3.09 ± 0	15.44	0.02	0.16
Efavirenz Caps 50mg 30s	1	0.02	2.61 ± 0	2.61	0.00	0.13	11	0.20	524.59 ± 185.56	5770.54	5.61	**27.94**
Efavirenz Caps 200mg 90s	12	0.19	76.94 ± 50.95	923.34	0.76	**3.98**	18	0.33	87.08 ± 51.64	1567.49	1.52	**4.64**
Efavirenz Caps 600mg 30s	12	0.19	193.05 ± 98.80	2316.62	1.90	**9.97**	97	1.77	261.39 ± 59.93	25354.40	24.64	**13.92**
Lamivudine Oral Sol 10mg/ml 240ml	15	0.24	27.60 ± 16.41	413.96	0.34	1.43	9	0.16	44.10 ± 20.75	396.91	0.39	**2.35**
Lamivudine Tabs 150mg 60s	57	0.91	28.27 ± 18.45	1611.33	1.32	1.46	155	2.83	41.90 ± 8.17	6494.33	6.31	**2.23**
Lopinavir Syr 60ml	6	0.10	318.91 ± 192.48	1913.45	1.57	**16.48**						
Nevirapine Tabs 200mg 60s	34	0.54	27.81 ± 17.02	945.53	0.78	1.44	53	0.97	38.03 ± 14.89	2015.53	1.96	**2.03**
Stavudine Caps 15mg 60s	2	0.03	19.25 ± 0	38.50	0.03	0.99						
Stavudine Caps 20mg 60s	12	0.19	17.49 ± 8.77	209.88	0.17	0.90	8	0.15	16.67 ± 5.49	133.38	0.13	0.89
Stavudine D4t Caps 30mg 60s	27	0.43	13.34 ± 7.90	360.07	0.30	0.69	61	1.11	18.70 ± 2.70	1140.75	1.11	1.00
Stavudine D4t Caps 40mg 60s	17	0.27	20.11 ± 4.46	341.89	0.28	1.04	98	1.79	21.74 ± 3.87	2130.28	2.07	1.16
Stavudine D4t Sol 200ml							4	0.07	170.47 ± 60.17	618.87	0.60	**8.24**
Zidovudine Caps 300mg 60s	10	0.16	21.31 ± 28.70	213.09	0.18	1.10	1	0.02	7.54 ± 0	7.54	0.01	0.40
Amphotericin B Lozenges 10mg 20s	1	0.02	1.86 ± 0	1.86	0.00	0.10						
Griseofulvin Tabs 125mg 100s							1	0.02	11.99 ± 0	11.99	0.01	0.64
Nystatin Oral Susp 100 000Iu 20ml	16	0.25	4.43 ± 5.46	70.84	0.06	0.23	5	0.09	3.99 ± 0	19.96	0.02	0.21
Methotrexate Tabs 2.5mg 100s							12	0.22	9.07 ± 4.48	108.80	0.11	0.48
Glyceryl Trinitrate SL Tabs 0.5mg 50s	9	0.14	1.43 ± 1.29	12.87	0.01	0.07	9	0.16	5.06 ± 2.99	45.52	0.04	0.27
Amlodipine Besylate Tabs 5mg 30s	12	0.19	5.19 ± 5.48	62.34	0.05	0.27						
Atenolol Tabs 50mg 28s	39	0.62	0.98 ± 0.90	38.51	0.03	0.05	21	0.38	2.02 ± 023	42.48	0.04	0.11

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Atenolol Tabs 100mg 28s	3	0.05	2.15 ± 1.68	6.46	0.01	0.11	4	0.07	3.12 ± 0	12.49	0.01	0.17
Enalapril Tabs 5mg 28s	17	0.27	137.11 ± 154.60	2330.80	1.92	**7.08**	3	0.05	459.00 ± 0	1377.00	1.34	**24.44**
Enalapril Tabs 10mg 28s	20	0.32	1.85 ± 1.28	37.10	0.03	0.10	52	0.95	2.61 ± 0.79	135.55	0.13	0.14
Enalapril Tabs 20mg 28s	9	0.14	2.19 ± 1.68	19.69	0.02	0.11	14	0.26	3.60 ± 21.74	50.46	0.05	0.19
Furosemide Tabs 40mg 28s	39	0.62	23.34 ± 27.54	910.09	0.75	1.21	37	0.68	36.46 ± 21.74	1349.15	1.31	1.94
Furosemide Tabs 40mg 56s	4	0.06	2.89 ± 0	11.54	0.01	0.15	2	0.04	30.22 ± 34.57	60.44	0.06	1.61
Furosemide Tabs 40mg 84s	1	0.02	4.08 ± 0	4.08	0.00	0.21						
Furosemide Tabs 40mg 250s							1	0.02	3.60 ± 0	3.60	0.00	0.19
Furosemide Inj 10mg/ml 2ml	33	0.52	6.88 ± 7.35	227.07	0.19	0.36						
Furosemide Inj 10mg/ml 25ml	2	0.03	21.22 ± 15.00	42.44	0.03	1.10	1	0.02	0.93 ± 0	0.93	0.00	0.05
Hydralazine Tabs 25mg 500s							1	0.02	6.72 ± 0	6.72	0.01	0.36
Hydrochlorothiazide Tabs 25mg 14s	19	0.30	7.46 ± 3.15	141.65	0.12	0.39	9	0.16	8.73 ± 1.54	78.57	0.08	0.46
Hydrochlorothiazide Tabs 25mg 28s	71	1.13	0.52 ± 0.41	36.82	0.03	0.03	116	2.12	0.98 ± 0.56	113.42	0.11	0.05
Indapamide Tabs 2.5mg 30s	18	0.29	1.05 ± 1.57	18.83	0.02	0.05	14	0.26	4.03 ± 1.22	56.35	0.05	0.21
Mannitol Inj for IV use 20% 50ml	1	0.02	210.00 ± 0	210.00	0.17	**10.85**						
Methyldopa Tabs 250mg 56s	1	0.02	0.72 ± 0	0.72	0.00	0.04	1	0.02	20.40 ± 0	20.40	0.02	1.09
Nifedipine Caps 5mg 100s	10	0.16	0.49 ± 0.38	4.89	0.00	0.03	1	0.02	0.16 ± 0	0.16	0.00	0.01
Nifedipine Tabs SR 30mg 28s	22	0.35	14.31 ± 9.71	314.86	0.26	0.74	35	0.64	22.11 ± 0	773.99	0.75	1.18
Nifedipine Tabs SR 60mg 28s	19	0.30	41.22 ± 33.97	783.23	0.64	**2.13**	44	0.80	59.05 ± 5.70	2598.33	2.53	**3.14**
Perindopril Tabs 4mg 28s	93	1.48	6.07 ± 5.68	565.29	0.46	0.31	59	1.08	12.91 ± 4.20	761.90	0.74	0.69
Prazosin Tabs 1mg 14s	1	0.02	28.39 ± 0	28.39	0.02	1.47	8	0.15	15.38 ± 4.90	123.03	0.12	0.82
Prazosin Tabs 5mg 30s							3	0.05	165.17 ± 0	495.50	0.48	**8.80**
Propranolol Tabs 10mg 60s	3	0.05	0.37 ± 0.28	1.10	0.00	0.02	2	0.04	0.83 ± 0.70	1.65	0.00	0.04
Propranolol Tabs 40mg 28s	1	0.02	0.88 ± 0	0.88	0.00	0.05						
Spironolactone Tabs 25mg 240s	15	0.24	5.00 ± 6.71	75.03	0.06	0.26	11	0.20	42.96 ± 27.68	472.51	0.46	**2.29**
Spironolactone Tabs 25mg 14s	13	0.21	4.70 ± 6.84	61.14	0.05	0.24						
Digoxin Tabs 0.25mg 14s	15	0.24	2.73 ± 2.45	40.92	0.03	0.14	14	0.26	3.85 ± 1.22	53.92	0.05	0.21
Digoxin Tabs 0.25mg 28s	2	0.03	4.07 ± 0	8.14	0.01	0.21	3	0.05	4.07 ± 0	12.21	0.01	0.22
Enoxaparin Prefilled Syr SC 40mg/0.4ml	5	0.08	47.60 ± 34.84	238.00	0.20	2.46						

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Balanced Heparin 1250Iu/ml 5ml 5s	1	0.02	2764.80 ± 0	2764.80	2.27	**142.84**						
Heparin IV Inj 1 000Iu/ml 5ml	2	0.03	10.33 ± 11.36	20.66	0.02	0.53						
Heparin IV Inj 5 000Iu/ml 5ml	12	0.19	19.19 ± 15.81	230.23	0.19	0.99						
Streptokinase Inj 1 500 000Iu							1	0.02	1.00 ± 0	1.00	0.00	0.05
Tranexamic Acid Inj 100mg/ml 5ml 5s	19	0.30	92.70 ± 72.55	1761.31	1.45	**4.79**	3	0.05	38.29 ± 0	114.87	0.11	**2.04**
Tranexamic Acid Tabs 500mg 60s	5	0.08	19.24 ± 13.99	96.20	0.08	0.99	6	0.11	7.04 ± 70.24	422.67	0.41	**3.75**
Warfarin Sodium Tabs 5mg 28s	12	0.19	11.12 ± 6.57	133.42	0.11	0.57	9	0.16	19.02 ± 4.10	171.22	0.17	1.01
Warfarin Sodium Tabs 5mg 42s							7	0.13	23.90 ± 1.47	167.33	0.16	1.27
Warfarin Sodium Tabs 5mg 49s							1	0.02	27.24 ± 0	27.24	0.03	1.45
Warfarin Sodium Tabs 5mg 14s	1	0.02	7.78 ± 0	7.78	0.01	0.40	2	0.04	7.78 ± 0	15.57	0.02	0.41
Ferrous Sulphate Co Tabs eq 65mg Fe 28s	138	2.19	0.82 ± 0.77	112.58	0.09	0.04	30	0.55	1.56 ± 0.55	46.70	0.05	0.08
Ferrous Sulphate Co Tabs eq 65mg Fe 84s	18	0.29	4.17 ± 0	75.06	0.06	0.22	10	0.18	4.17 ± 0	41.70	0.04	0.22
Ferrous Lactate Drops eq 25mg Fe/ml 10ml							1	0.02	57.48 ± 0	57.48	0.06	**3.06**
Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	20	0.32	6.80 ± 5.93	136.01	0.11	0.35						
Folic Acid Tabs 5mg 28s	223	3.55	0.45 ± 0.43	100.97	0.08	0.02	42	0.77	0.95 ± 0.15	39.88	0.04	0.05
Folic Acid Tabs 5mg 1000s							1	0.02	247.34 ± 0	247.34	0.24	13.17
Phytomenadione IM Inj 10mg/ml 1ml	4	0.06	29.23 ± 22.39	116.92	0.10	1.51	1	0.02	11.69 ± 0	11.69	0.01	0.62
Cholestyramine Powder 4g 50s	1	0.02	15.15 ± 0	15.15	0.01	0.78						
Simvastatin Tabs 10mg 28s							3	0.05	6.62 ± 0	19.86	0.02	0.35
Simvastatin Tabs 20mg 28s	3	0.05	3.89 ± 4.99	11.66	0.01	0.20	2	0.04	9.60 ± 0	19.19	0.02	0.51
Clotrimazole Cream 1% 20g	5	0.08	2.54 ± 0.02	12.70	0.01	0.13	14	0.26	3.10 ± 1.09	43.35	0.04	0.16
Gentian Violet Sol 0.5% 20ml							1	0.02	1.12 ± 0	1.12	0.00	0.06
Malic Acid, Benz Acid & Salicyl Acid Cream 50g	1	0.02	17.49 ± 0	17.49	0.01	0.90						
Miconazole Nitrate cream 2% 40g							1	0.02	39.93 ± 0	39.93	0.04	**2.13**
Miconazole Nitrate Oral Gel 2% 30g	8	0.13	44.50 ± 1.40	355.98	0.29	**2.30**	1	0.02	45.24 ± 0	45.24	0.04	**2.41**

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Mupirocin Topical Oint 2% 15g	2	0.03	16.53 ± 0	33.06	0.03	0.85	2	0.04	16.53 ± 0	33.06	0.03	0.88
Nystatin Vaginal Cream 100 000Iu 60g							1	0.02	50.21 ± 0	50.21	0.05	**2.67**
Nystatin Vaginal Tabs 15s	1	0.02	3.06 ± 0	3.06	0.00	0.16	2	0.04	24.61 ± 0	49.22	0.05	1.31
Selenium Sulphide Shampoo 2.5% 50ml							2	0.04	19.30 ± 0	38.60	0.04	1.03
Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	1	0.02	5.31 ± 0	5.31	0.00	0.27	1	0.02	5.31 ± 0	5.31	0.01	0.28
Mercurochrome Sol 1% 20ml	1	0.02	1.18 ± 0	1.18	0.00	0.06	1	0.02	1.18 ± 0	1.18	0.00	0.06
Podophyllum Resin 25g	1	0.02	42.66 ± 0	42.66	0.04	**2.20**	1	0.02	42.66 ± 0	42.66	0.04	**2.27**
Podophyllum Resin Oint 10g	1	0.02	21.05 ± 0	21.05	0.02	1.09	12	0.22	26.32 ± 9.52	315.80	0.31	1.40
Silver Sulphadiazine Cream 50g							1	0.02	8.25 ± 0	8.25	0.01	0.44
Silver Sulphadiazine Cream 500g	1	0.02	120.00 ± 0	120.00	0.10	**6.20**						
Calamine Lotion 100ml	1	0.02	1.22 ± 0	1.22	0.00	0.06	3	0.05	1.22 ± 0	3.67	0.00	0.07
Hydrocortisone Cream 1% 20g							12	0.22	3.45 ± 0	41.36	0.04	0.18
Indomethacin Caps 25mg 28s	12	0.19	1.08 ± 0.70	12.90	0.01	0.06	35	0.64	1.52 ± 0.64	53.25	0.05	0.08
Indomethacin Supps 100mg 10s	5	0.08	3.65 ± 4.44	18.24	0.01	0.19	3	0.05	23.18 ± 19.09	69.54	0.07	1.23
Sulfasalazine Tabs 500mg 100s							1	0.02	25.46 ± 0	25.46	0.02	1.36
Benzoyl Peroxide Cream 5% 40g							1	0.02	18.23 ± 0	18.23	0.02	0.97
Benzyl Benzoate Emuls 100ml	5	0.08	1.07 ± 0.46	5.34	0.00	0.06	8	0.15	1.39 ± 0.58	11.10	0.01	0.07
Monosulfiram Soap 5% 75g							2	0.04	6.46 ± 0	12.91	0.01	0.34
Aqueous Cream 100g	3	0.05	1.01 ± 0	3.05	0.00	0.05	10	0.18	1.32 ± 0.69	13.20	0.01	0.07
Aqueous Cream 500g	2	0.03	3.12 ± 0	6.23	0.01	0.16						
Emulsifying Oint 500g	1	0.02	10.79 ± 0	10.79	0.01	0.56						
Lubricating Jelly Sachet 2.5ml	1	0.02	0.18 ± 0	0.18	0.00	0.01						
Zinc & Castor Oil Oint 25g	3	0.05	0.83 ± 0	2.50	0.00	0.04	5	0.09	0.83 ± 0	4.16	0.00	0.04
Zinc Sulphate Grade 500g							1	0.02	249.00 ± 0	249.00	0.24	**13.26**
Povidone Iodine Oint 25g	2	0.03	1.72 ± 0	3.45	0.00	0.09	1	0.02	1.72 ± 0	1.72	0.00	0.09
Povidone Iodine Sol 1000ml	2	0.03	19.96 ± 0	33.93	0.03	0.88	1	0.02	16.96 ± 0	16.96	0.02	0.90
Acyclovir Tabs 200mg 25s	4	0.06	7.07 ± 7.06	28.29	0.02	0.37	11	0.20	19.45 ± 11.28	213.96	0.21	1.04
Chloramphenicol Eye Drops 0.5% 10ml							3	0.05	29.82 ± 0	89.45	0.09	1.59
Chloramphenicol Eye Oint 1% 3.5g	7	0.11	1.92 ± 0.63	13.44	0.01	0.10	8	0.15	1.68 ± 0	13.44	0.01	0.09

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Amethocaine Cream 1% 25g							1	0.02	60.00 ± 0	60.00	0.06	**3.20**
Antazoline Tetrahydrozoline Eye Drops 10ml	1	0.02	4.73 ± 0	4.73	0.00	0.24	15	0.27	4.73 ± 0	70.92	0.07	0.25
Acetic Acid Ear Drops 1% in normal saline 10ml	1	0.02	0.06 ± 0	0.06	0.00	0.00	8	0.15	2.75 ± 0	22.00	0.02	0.15
Acetic Acid Ear Drops 2% in alcohol							2	0.04	4.16 ± 3.20	8.33	0.01	0.22
Neomycin Polymixin Hydrocortisone Ear Drops 10ml							1	0.02	32.63 ± 0	32.63	0.03	1.74
Oxymetazoline Nose Drops 0.025% 10ml							1	0.02	7.37 ± 0	7.37	0.01	0.39
Sodium Bicarbonate Powder 500g	7	0.11	0.68 ± 0.27	4.76	0.00	0.04						
Sodium Chloride Nose Drops 0.9% 10ml	1	0.02	0.02 ± 0	0.02	0.00	0.00	12	0.22	2.75 ± 0	33.00	0.03	0.15
Arachis Oil, Paradichlorbenzene chlorbut 10ml	2	0.03	17.00 ± 0	34.00	0.03	0.88	4	0.07	17.00 ± 0	68.00	0.07	0.91
Betamethasone In Uea Cream 10% 500g							1	0.02	11.73 ± 0	11.73	0.01	0.62
Betamethasone Valerate Cream 0.1% 15g	2	0.03	2.85 ± 1.34	5.70	0.00	0.15	10	0.18	2.09 ± 0.60	20.90	0.02	0.11
Condoms 10's	1	0.02	0 ± 0	0.00	0.00	0.00						
Medroxyprogesterone Tabs 5mg 30s	1	0.02	113.92 ± 0	113.92	0.09	**5.89**	2	0.04	56.96 ± 0	113.92	0.11	**3.03**
Norgestrel Oestradiol Tabs 28s	2	0.03	22.27 ± 3.52	44.54	0.04	1.15	1	0.02	19.37 ± 0	19.37	0.02	1.03
Oestrogens Conj Tabs 0.3mg 28s	1	0.02	14.66 ± 0	14.66	0.01	0.76						
Oestrogens Conj Tabs 0.625mg 28s	1	0.02	12.40 ± 0	12.40	0.01	0.64	9	0.16	12.40 ± 0	111.61	0.11	0.66
Oestrogens Conj Vaginal Cream 42.5g							1	0.02	53.00 ± 0	53.00	0.05	**2.82**
Insulin Actraphane Hm 100Iu/ml 10ml	17	0.27	51.21 ± 31.82	870.51	0.72	**2.65**	16	0.29	82.56 ± 41.30	1320.95	1.28	**4.40**
Insulin Actraphane Hm 100Iu/ml 3ml Penset	6	0.10	58.53 ± 24.15	351.17	0.29	**3.02**						
Insulin Actrapid Hm 100Iu/ml 10ml	10	0.16	0.45 ± 0.43	4.51	0.00	0.02	3	0.05	0.37 ± 0	1.10	0.00	0.02
Insulin Protaphane Hm 100Iu/ml 3ml Penset							2	0.04	41.31 ± 0	82.63	0.08	**2.20**
Insulin Needles 1s	14	0.22	5.13 ± 4.75	71.80	0.06	0.26	13	0.24	4.22 ± 2.03	54.81	0.05	0.22

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Gliclazide Tabs 80mg 56s	14	0.22	7.39 ± 2.59	103.43	0.08	0.38	14	0.26	8.69 ± 3.12	121.68	0.12	0.46
Gliclazide Tabs 80mg 28s	21	0.33	1.18 ± 1.26	24.77	0.02	0.06	7	0.13	3.28 ± 0	22.93	0.02	0.17
Metformin Tabs 850mg 56s	45	0.72	3.38 ± 3.51	152.22	0.13	0.17	15	0.27	5.51 ± 2.37	82.61	0.08	0.29
Metformin Tabs 850mg 84s	14	0.22	10.27 ± 2.73	143.77	0.12	0.53	26	0.47	10.72 ± 1.45	278.63	0.27	0.57
Glucagon Inj 1mg 1ml	3	0.05	1097.74 ± 914.63	3293.22	2.71	**56.71**						
Oxytocin 5Iu/ml 5s	1	0.02	9.97 ± 0	9.97	0.01	0.52						
Oxytocin Inj 10Iu 1ml 5s	4	0.06	9.96 ± 2.85	39.85	0.03	0.51						
Thyroxine Sodium Tabs 50µg 100s	1	0.02	0.37 ± 0	0.37	0.00	0.02						
Thyroxine Sodium Tabs 100µg 28s	9	0.14	5.73 ± 2.62	51.87	0.04	0.30						
Dexamethasone IM Inj 4mg/ml 1ml	7	0.11	26.33 ± 33.34	184.28	0.15	1.36	1	0.02	4.10 ± 0	4.10	0.00	0.22
Fludrocortisone Acetate Tabs 0.1mg 100s							1	0.02	17.83 ± 0	17.83	0.02	0.95
Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	27	0.43	75.21 ± 68.95	2030.57	1.67	**3.89**	8	0.15	24.51 ± 9.23	196.10	0.19	1.31
Methylprednisolone Inj 40mg/ml 1ml	2	0.03	11.13 ± 5.24	22.25	0.02	0.57	3	0.05	14.83 ± 0	44.50	0.04	0.79
Methylprednisolone Inj 40mg/ml 2ml							1	0.02	8.17 ± 0	8.17	0.01	0.44
Prednisolone Syr 15mg/5ml 50ml	11	0.17	11.13 ± 8.57	122.47	0.10	0.58	2	0.04	19.83 ± 0	39.67	0.04	1.06
Prednisone Tabs 5mg 28s	97	1.54	2.13 ± 2.45	206.55	0.17	0.11	126	2.30	2.40 ± 2.24	302.08	0.29	0.13
Prednisone Tabs 5mg 100s	1	0.02	53.25 ± 0	53.25	0.04	**2.75**	8	0.15	30.01 ± 24.87	240.09	0.23	1.60
Betamethasone Inj 4mg/ml 1ml							1	0.02	2.62 ± 0	2.62	0.00	0.14
Carbamazepine Susp 100mg/5ml 250ml							1	0.02	67.89 ± 0	67.89	0.07	**3.62**
Carbamazepine CR Tabs 200mg 30s	35	0.56	11.96 ± 13.12	418.73	0.34	0.62	63	1.15	14.98 ± 8.73	943.81	0.92	0.80
Carbamazepine CR Tabs 400mg 30s	9	0.14	24.59 ± 16.86	221.28	0.18	1.27	65	1.19	33.78 ± 15.17	2195.98	2.13	1.80
Clonazepam Inj 1mg/ml 1ml	1	0.02	6.09 ± 0	6.09	0.01	0.31						
Lamotrigine Tabs 25mg 60s	1	0.02	0.50 ± 0	0.50	0.00	0.03	3	0.05	30.00 ± 0	90.00	0.09	1.60
Lorazepam Inj 4mg/ml 1ml	15	0.24	33.50 ± 29.85	502.47	0.41	1.73						
Lorazepam Tabs 1mg 100s	1	0.02	2.18 ± 0	2.18	0.00	0.11	3	0.05	6.47 ± 5.57	19.41	0.02	0.34
Lorazepam Tabs 2.5mg 100s							1	0.02	6.02 ± 0	6.02	0.01	0.32
Phenobarbitone Tabs 30mg 28s	12	0.19	0.50 ± 0.48	5.94	0.00	0.03	4	0.07	2.57 ± 1.03	10.27	0.01	0.14
Phenobarbitone Tabs 30mg 56s	5	0.08	2.96 ± 0.74	14.82	0.01	0.15	20	0.36	3.13 ± 1.30	62.59	0.06	0.17

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Phenobarbitone Vit Nicot Syrup 100ml	2	0.03	40.98 ± 28.98	81.96	0.07	**2.12**	1	0.02	20.49 ± 0	20.49	0.02	1.09
Phenytoin Caps 100mg 84s	26	0.41	18.02 ± 12.12	468.52	0.38	0.93	5	0.09	26.04 ± 0.03	130.18	0.13	1.39
Phenytoin Inj 50mg/ml 5ml	5	0.08	88.43 ± 42.08	442.15	0.36	**4.57**						
Sodium Valproate Liqiud Sugar Free 200mg 300ml	3	0.05	85.35 ± 0	256.05	0.21	**4.41**	1	0.02	85.35 ± 0	85.35	0.08	**4.55**
Sodium Valproate Tabs 200mg 28s							5	0.09	35.26 ± 8.76	176.29	0.17	1.88
Sodium Valproate Tabs Cr 300mg 84s							1	0.02	84.18 ± 0	84.18	0.08	**4.48**
Valproic Acid Caps 150mg 56s							2	0.04	39.16 ± 0	78.32	0.08	**2.09**
Valproic Acid Caps 500mg 100s							2	0.04	41.75 ± 0	83.51	0.08	**2.22**
Lamotrigine Tabs 25mg 28s							4	0.07	14.00 ± 0	56.00	0.05	0.75
Bromocriptine Mesylate Tabs 2.5mg 30s	3	0.05	9.18 ± 2.28	27.53	0.02	0.47	2	0.04	69.00 ± 0	138.00	0.13	**3.67**
Biperidin Inj 5mg/ml 5ml	1	0.02	12.80 ± 0	12.80	0.01	0.66						
Carbidopa 25mg & Levodopa 250mg 100s	3	0.05	39.89 ± 50.81	119.68	0.10	**2.06**						
Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	1	0.02	0.94 ± 0	0.94	0.00	0.05						
Fluphenazine Decanoate Inj 25mg/ml 1ml							2	0.04	8.82 ± 0	17.64	0.02	0.47
Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml							2	0.04	16.61 ± 0	33.23	0.03	0.88
Chlorpromazine Inj 25mg/ml 1ml	1	0.02	0.72 ± 0	0.72	0.00	0.04						
Chlorpromazine Tabs 50mg 500s	4	0.06	50.53 ± 98.34	202.13	0.17	**2.61**	7	0.13	3.98 ± 1.51	27.88	0.03	0.21
Chlorpromazine Tabs 100mg 500s							3	0.05	4.99 ± 0	14.98	0.01	0.27
Haloperidol Inj 5mg/ml 1ml	9	0.14	48.16 ± 14.45	433.46	0.36	**2.49**						
Haloperidol Tabs 5mg 14s	41	0.65	0.52 ± 0.70	21.16	0.02	0.03	1	0.02	2.04 ± 0	2.04	0.00	0.11
Haloperidol Tabs 5mg 56s	5	0.08	2.55 ± 0	12.75	0.01	0.13	4	0.07	3.19 ± 1.28	12.75	0.01	0.17
Chlorpromazine Tabs 25mg 28s	5	0.08	1.46 ± 0.74	7.29	0.01	0.08	13	0.24	2.07 ± 0.99	26.87	0.03	0.11
Amitriptyline Tabs 25mg 28s	68	1.08	14.99 ± 14.15	1019.21	0.84	0.77	80	1.46	20.54 ± 5.07	1643.56	1.60	1.09
Fluoxetine Caps 20mg 28s	25	0.40	1.60 ± 1.10	40.03	0.03	0.08	22	0.40	2.52 ± 0	55.44	0.05	0.13
Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	1	0.02	1.50 ± 0	1.50	0.00	0.08						

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Imipramine Tabs 25mg 28s							1	0.02	25.80 ± 0	25.80	0.03	1.37
Hydroxyzine Tabs 25mg 100s	1	0.02	0.62 ± 0	0.62	0.00	0.03						
Diazepam Inj 5mg/ml 2ml	14	0.22	1.46 ± 0.82	20.24	0.02	0.07	4	0.07	0.79 ± 0.30	3.15	0.00	0.04
Diazepam Tabs 5mg 500s	2	0.03	0.10 ± 0.09	0.19	0.00	0.00						
Diazepam Tabs 5mg 10s	23	0.37	0.12 ± 0.12	2.65	0.00	0.01	6	0.11	0.24 ± 0.09	1.42	0.00	0.01
Naloxone Inj 0.4mg/ml 1ml							1	0.02	1.40 ± 0	1.40	0.00	0.07
Orphenadrine Tabs 50mg 28s	16	0.25	2.78 ± 2.86	44.51	0.04	0.14	19	0.35	4.93 ± 0	93.58	0.09	0.26
Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	3	0.05	19.80 ± 0	59.40	0.05	1.02	1	0.02	19.80 ± 0	19.80	0.02	1.05
Albendazole Susp 100mg/5ml 20ml	10	0.16	9.17 ± 9.32	91.68	0.08	0.47	2	0.04	7.05 ± 0	14.10	0.01	0.38
Albendazole Tabs 200mg 2s	9	0.14	5.84 ± 0	52.55	0.04	0.30	10	0.18	7.59 ± 3.94	75.91	0.07	0.40
Aluminium Hydroxide Susp 350ml	50	0.80	16.86 ± 11.63	843.24	0.69	0.87	38	0.69	26.67 ± 4.06	1013.61	0.99	1.42
Cimetidine IV Inj 100mg/ml 2ml	20	0.32	8.56 ± 7.34	171.27	0.14	0.44	1	0.02	0.99 ± 0	0.99	0.00	0.05
Cimetidine Tabs 200mg 30s	11	0.17	0.89 ± 0.65	9.79	0.01	0.05	8	0.15	1.44 ± 0.66	11.52	0.01	0.08
Cimetidine Tabs 400mg 60s	20	0.32	3.25 ± 3.42	65.01	0.05	0.17	12	0.22	6.17 ± 3.05	74.03	0.07	0.33
Magnesium Trisillicate Co Mixt 200ml	1	0.02	0.11 ± 0	0.11	0.00	0.01	1	0.02	2.29 ± 0	2.29	0.00	0.12
Misoprostol Tabs 0.2mg 60s	3	0.05	10.78 ± 6.26	32.35	0.03	0.56	15	0.27	12.95 ± 1.03	194.29	0.19	0.69
Ranitidine HCl Tabs 300mg 30s	1	0.02	12.26 ± 0	12.26	0.01	0.63						
Ranitidine Inj 25mg/ml 2ml							1	0.02	12.00 ± 0	12.00	0.01	0.64
Omeprazole Caps 20mg 30s	5	0.08	22.39 ± 17.06	111.93	0.09	1.16	2	0.04	1.44 ± 0	2.88	0.00	0.08
Cinnarizine Tabs 25mg 100s							1	0.02	2.56 ± 0	2.56	0.00	0.14
Metoclopramide Inj 5mg/ml 2ml	63	1.00	6.56 ± 7.60	413.38	0.34	0.34	8	0.15	2.13 ± 0	17.04	0.02	0.11
Metoclopramide Syr 5mg/5ml 50ml	2	0.03	1.51 ± 1.28	3.01	0.00	0.08	3	0.05	2.41 ± 0	7.23	0.01	0.13
Metoclopramide Tabs 10mg 15s	15	0.24	0.47 ± 0	7.08	0.01	0.02	19	0.35	0.70 ± 0.97	13.22	0.01	0.04
Prochlorperazine Inj 12.5mg/ml 1ml	3	0.05	3.84 ± 0	11.52	0.01	0.20						
Metoclopramide Tabs 10mg 10s	25	0.40	1.20 ± 1.67	30.12	0.02	0.06	17	0.31	1.68 ± 0.61	28.55	0.03	0.09
Bismuth Sub Oxi Res Nic Zinc Oint 25g							1	0.02	13.40 ± 0	13.40	0.01	0.71
Bismuth Sub Oxi Res Nic Ainc Supps 10s	6	0.10	7.74 ± 5.68	46.43	0.04	0.40	8	0.15	14.07 ± 0	112.56	0.11	0.75
Bisacodyl Supps 10mg 10s	1	0.02	15.16 ± 0	15.16	0.01	0.78						

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Glycerine Supps Adult 12's	1	0.02	23.25 ± 0	23.25	0.02	1.20						
Lactulose Syr 3.35mg/5ml 150ml	8	0.13	8.95 ± 9.98	71.61	0.06	0.46	2	0.04	9.74 ± 0	19.49	0.02	0.52
Magnesium Sulphate Crystals 500g							1	0.02	11.30 ± 0	11.30	0.01	0.60
Senna Tabs 1000s	2	0.03	1.66 ± 1.41	3.31	0.00	0.09	2	0.04	2.65 ± 0	5.30	0.01	0.14
Senna Tabs 7.5mg 12s	4	0.06	2.42 ± 0.45	9.70	0.01	0.13						
Sodium Phosphate Enema Sol 135ml	1	0.02	4.26 ± 0	4.26	0.00	0.22						
Half Darrows & Glucose 5% Sol 200ml	15	0.24	12.08 ± 10.80	181.13	0.15	0.62	1	0.02	10.50 ± 0	10.50	0.01	0.56
Half Darrows & Glucose 5% Sol 500ml	5	0.08	17.89 ± 3.24	89.47	0.07	0.92						
Loperamide Tabs 2mg 6s	15	0.24	0.51 ± 0.29	7.61	0.01	0.03	13	0.24	1.17 ± 0.43	15.26	0.01	0.06
Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s							1	0.02	0.80 ± 0	0.80	0.00	0.04
Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	13	0.21	2.23 ± 1.58	29.04	0.02	0.12	5	0.09	1.12 ± 0	5.59	0.01	0.06
Hyoscine-N-Butylbromide Syr 100ml	1	0.02	19.99 ± 0	19.99	0.02	1.03	1	0.02	19.99 ± 0	19.99	0.02	1.06
Hyoscine-N-Butylbromide Tabs 10mg 10s	10	0.16	2.32 ± 1.40	23.15	0.02	0.12	8	0.15	3.12 ± 1.01	24.99	0.02	0.17
Hyoscine-N-Butylbromide Inj 50mg/ml							2	0.04	2.50 ± 1.41	5.00	0.00	0.13
Hyoscine-N-Butylbromide Tabs 10mg 15s							3	0.05	2.64 ± 1.32	7.93	0.01	0.14
Liquid Paraffin 200ml	8	0.13	2.88 ± 1.48	23.02	0.02	0.15	6	0.11	5.16 ± 1.81	30.99	0.03	0.28
Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	33	0.52	0.60 ± 0.19	19.76	0.02	0.03	19	0.35	0.76 ± 0.47	14.44	0.01	0.04
Thymol Glycerine B.P. Mouth wash 100ml	8	0.13	0.80 ± 0.49	5.62	0.00	0.04	27	0.49	1.21 ± 0.13	32.62	0.03	0.06
Calcium Folinate Tabs 15mg							1	0.02	1.90 ± 0	1.90	0.00	0.10
Electrolyte no 2 Sol 1000ml	2	0.03	24.33 ± 0	48.66	0.04	1.26						
Ringers Lactate 2000ml	1	0.02	10.05 ± 0	10.05	0.01	0.52						
Ringers Lactate Sol 200ml	1	0.02	10.00 ± 0	10.00	0.01	0.52						
Ringers Lactate Sol 1000ml	50	0.80	16.31 ± 14.74	815.50	0.67	0.84						

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Sodium Chloride 0.9% for Irrigation 1000ml	1	0.02	1.29 ± 0	1.29	0.00	0.07	1	0.02	0.19 ± 0	0.19	0.00	0.01
Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.02	17.54 ± 0	17.54	0.01	0.91						
Sodium Chloride 0.9% Inj 1000ml	21	0.33	10.04 ± 5.98	210.84	0.17	0.52	2	0.04	8.61 ± 0	17.21	0.02	0.46
Sodium Chloride 0.9% Inj 50ml	1	0.02	1.15 ± 0	1.15	0.00	0.06						
Sodium Chloride 0.9% Inj 200ml	2	0.03	34.62 ± 0	69.24	0.06	**1.79**						
Water for Inj 10ml	1	0.02	1.11 ± 0	1.11	0.00	0.06						
Calciferol Tabs 50 000Iu 100s							1	0.02	2.41 ± 0	2.41	0.00	0.13
Calcitriol Caps 0.25mg 30s	6	0.10	0.68 ± 0.05	4.08	0.00	0.04						
Calsium Carbonate & Glycine Tabs 420mg 300s	4	0.06	0.82 ± 0.33	3.29	0.00	0.04						
Calcium Gluconate Tabs 300mg 28s	3	0.05	0.86 ± 0.59	2.57	0.00	0.04	10	0.18	0.72 ± 0.43	7.18	0.01	0.04
Magnesium Chloride Tabs 500-700mg 100s	2	0.03	10.68 ± 8.39	21.36	0.02	0.55						
Potassium Chloride Syr 300mg/5ml 100ml	33	0.52	1.06 ± 0.85	35.00	0.03	0.05						
Potassium Chloride Inj 15% 10ml							1	0.02	14.38 ± 0	14.38	0.01	0.77
Potassium Chloride Slow Tabs 600mg 14s	43	0.68	1.50 ± 1.71	64.69	0.05	0.08	28	0.51	2.97 ± 1.00	83.06	0.08	0.16
Potassium Citrate Mixture 100ml	15	0.24	1.67 ± 0.90	24.99	0.02	0.09	15	0.27	2.67 ± 0.83	39.98	0.04	0.14
Thiamine IV Inj Vit B1 100mg/ml 10ml	4	0.06	2.48 ± 1.86	9.92	0.01	0.13						
Thiamine Tabs 100mg 28s	16	0.25	1.74 ± 1.82	27.81	0.02	0.09	1	0.02	4.33 ± 0	4.33	0.00	0.23
Vitamin A Caps 100 000Iu 250s	22	0.35	0.34 ± 0.17	7.58	0.01	0.02	2	0.04	1.56 ± 1.81	3.13	0.00	0.08
Vitamin A Tabs 50 000Iu 200s	1	0.02	0.10 ± 0	0.10	0.00	0.01						
Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	11	0.17	7.91 ± 0	87.03	0.07	0.41	76	1.39	9.57 ± 9.26	727.11	0.71	0.51
Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	3	0.05	5.48 ± 4.63	16.43	0.01	0.28	1	0.02	7.91 ± 0	7.91	0.01	0.42
Vitamin B Co Inj 10ml (IM)	5	0.08	2.31 ± 1.53	11.55	0.01	0.12	2	0.04	1.20 ± 0	2.39	0.00	0.06
Vitamin B Co Strong Tabs 28s	122	1.94	0.42 ± 0.44	51.58	0.04	0.02	80	1.46	0.84 ± 0.33	67.15	0.07	0.04

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Vitamin B Co Strong Tabs 1000s	1	0.02	0.21 ± 0	0.21	0.00	0.01						
Vitamin B Co Syr 100ml	12	0.19	0.53 ± 0.65	6.30	0.01	0.03	1	0.02	1.09 ± 0	1.09	0.00	0.06
Vitamin B6 Tabs 25mg 28s	102	1.62	1.20 ± 1.10	122.16	0.10	0.06	63	1.15	2.00 ± 0	125.43	0.12	0.11
Vitamin C Tabs 100mg 28s	10	0.16	0.46 ± 0.48	4.62	0.00	0.02	20	0.36	0.87 ± 0.30	17.35	0.02	0.05
Vitamin C Tabs 250mg 100s	19	0.30	1.52 ± 0.90	28.80	0.02	0.08	42	0.77	1.51 ± 0.76	63.35	0.06	0.08
Vitamin E Tabs 100mg 50s							1	0.02	0.40 ± 0.76	0.40	0.00	0.02
Vitamin Multiple Oral drops 25ml	2	0.03	11.81 ± 0	23.61	0.02	0.61						
Vitamin Multiple Syr 100ml	156	2.48	0.80 ± 0.74	124.70	0.10	0.04	58	1.06	1.31 ± 0.51	75.89	0.07	0.07
Vitamin Multiple Tabs 28s	288	4.58	0.36 ± 0.34	104.33	0.09	0.02	256	4.67	0.54 ± 0.43	137.24	0.13	0.03
Bettaway Children's Own Tabs 60s	1	0.02	3.50 ± 0	3.50	0.00	0.18						
Vi-Daylin Syrup with Minerals 150ml	6	0.10	4.16 ± 7.14	24.94	0.02	0.21						
Dextrose Sol for IV Infus 5% 50ml	2	0.03	7.87 ± 0	15.74	0.01	0.41						
Dextrose Sol for IV Infus 5% 1000ml	6	0.10	7.30 ± 0	43.79	0.04	0.38						
Dextrose Sol for IV Infus 10% 1000ml							1	0.02	10.25 ± 0	10.25	0.01	0.55
Destrose Sol for IV Infus 50% 500ml	1	0.02	17.68 ± 0	17.68	0.01	0.91						
Dextrose in Water Inj 50% 20ml	1	0.02	4.00 ± 0	4.00	0.00	0.24						
Sodium Alginate in a Hydro-active base 5	3	0.05	57.60 ± 62.35	172.80	0.14	**3.39**						
Lignocaine Gel 2% 20g	4	0.06	14.90 ± 0	59.62	0.05	0.77	9	0.16	14.90 ± 0	134.14	0.13	0.79
Allopurinol Tabs 300mg 30s	2	0.03	3.31 ± 4.28	6.61	0.01	0.17	2	0.04	9.50 ± 4.48	18.99	0.02	0.51
Aspirin Soluble Tabs 300mg 14s	81	1.29	0.88 ± 0.75	70.97	0.06	0.05	93	1.70	1.56 ± 0.35	144.75	0.14	0.08
Colchicine Tabs 1mg 60s	3	0.05	31.04 ± 32.43	93.13	0.08	1.60	1	0.02	10.72 ± 0	10.72	0.01	0.57
Diclofenac Inj 25mg/ml 3ml	77	1.22	337.40 ± 361.68	25979.65	**21.35**	**17.43**	103	1.88	114.85 ± 0	11829.90	11.50	**6.12**
Diclofenac Tabs 25mg 42s	16	0.25	5.09 ± 2.43	81.38	0.07	0.26	58	1.06	7.53 ± 4.17	436.70	0.42	0.40
Ibuprofen Susp 100mg/5ml 100ml	12	0.19	2.82 ± 2.62	33.84	0.03	0.15	11	0.20	6.39 ± 0	70.24	0.07	0.34
Ibuprofen Tabs 200mg 15s	243	3.86	1.29 ± 0.62	314.10	0.26	0.07	357	6.51	1.59 ± 0.76	567.25	0.55	0.08
Methyl Salicylate In Vaseline Oint 10% 25g	16	0.25	0.64 ± 0	10.30	0.01	0.03	85	1.55	0.64 ± 0	54.74	0.05	0.03
Paracetamol Codeine Phos Tabs 500mg/8mg 20's	6	0.10	76.02 ± 45.67	456.12	0.37	**3.93**	32	0.58	126.78 ± 60.26	4057.06	3.94	**6.75**
Paracetamol Syr 120mg/5ml 50ml	93	1.48	1.34 ± 0.85	124.71	0.10	0.07	68	1.24	2.30 ± 0.88	156.42	0.15	0.12

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Paracetamol Syr 120mg/5ml 100ml	33	0.52	2.38 ± 0.71	78.50	0.06	0.12	17	0.31	2.86 ± 0.65	48.60	0.05	0.15
Paracetamol Tabs 500mg 10s	480	7.63	0.90 ± 0.60	431.02	0.35	0.05	583	10.64	0.92 ± 0.24	535.02	0.52	0.05
Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20's	26	0.41	6.87 ± 7.88	178.60	0.15	0.35	26	0.47	5.52 ± 1.21	143.42	0.14	0.29
Tilidine Oral Drops 100mg/1ml 10ml	1	0.02	1.25 ± 0	1.25	0.00	0.06	5	0.09	2.30 ± 2.75	11.51	0.01	0.12
Ibuprofen Tabs 200mg 30s	3	0.05	1.86 ± 0	5.58	0.00	0.10					0.00	
Diclofenac Tabs 25mg 28s	18	0.29	1.64 ± 1.42	29.58	0.02	0.08	32	0.58	3.50 ± 2.26	111.86	0.11	0.19
Codeine Phosphate Tabs 30mg 100s	20	0.32	13.02 ± 5.24	260.40	0.21	0.67						
Morphine Sulphate IV Inj 15mg 1ml	6	0.10	0.94 ± 0.87	5.66	0.00	0.05						
Morphine Sulphate Tabs 30mg 60s	1	0.02	10.01 ± 0	10.01	0.01	0.52						
Pethidine IM Inj 50mg/ml 1ml 10s	25	0.40	3.53 ± 3.98	88.20	0.07	0.18	3	0.05	0.83 ± 0.29	2.50	0.00	0.04
Pethidine IM Inj 100mg/2ml 1ml 10s	17	0.27	17.51 ± 15.85	297.67	0.24	0.90	1	0.02	5.56 ± 0	5.56	0.01	0.30
Chloroquine Tabs 150mg 100s							1	0.02	1.68 ± 0	1.68	0.00	0.09
Vaccine Immunoglobulin Human Anti-Rabies 150Iu							1	0.02	324.37 ± 0	324.37	0.32	**17.27**
Vaccine Rabies 2.5Iu/dose Single dose							5	0.09	324.37 ± 0	1621.84	1.58	**17.27**
Vaccine Tetanus Adosrbed 10 dose 10ml	10	0.16	3.71 ± 6.17	37.14	0.03	0.19	25	0.46	1.27 ± 0.42	31.83	0.03	0.07
Beclomethasone MDI 100mg 200 dose	2	0.03	20.36 ± 28.50	40.71	0.03	1.05	13	0.24	40.51 ± 0.00	526.60	0.51	**2.16**
Beclomethasone nasal Spray Aqueous 50mg	1	0.02	14.54 ± 0	14.54	0.01	0.75						
Budesonide MDI 200mg 300 dose	1	0.02	49.02 ± 0	49.02	0.04	**2.53**	1	0.02	49.02 ± 0	49.02	0.05	**2.61**
Fenoterol Inhaler Complete 100	1	0.02	0.33 ± 0	0.33	0.00	0.02						
Fenoterol UDV 0.5mg/2ml 60s	9	0.14	20.28 ± 27.43	182.56	0.15	1.05	3	0.05	25.56 ± 28.53	76.68	0.07	1.36
Ipratropium UDV 0.25mg/2ml 2ml 60's	3	0.05	2.66 ± 0.59	7.98	0.01	0.14						
Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s							1	0.02	1.85 ± 0	1.85	0.00	0.10
Salbutamol MDI Complete 100mg 200 dose	9	0.14	17.54 ± 5.26	157.89	0.13	0.91	31	0.57	15.79 ± 0	489.46	0.48	0.84
Salbutamol Syr 2mg/5ml 150ml	17	0.27	4.16 ± 1.77	70.76	0.06	0.22	4	0.07	5.59 ± 0	22.35	0.02	0.30
Salbutamol Tabs 2mg 28s	1	0.02	0.11 ± 0	0.11	0.00	0.01	2	0.04	2.62 ± 0.53	5.24	0.01	0.14

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	10	0.16	17.43 ± 18.82	174.28	0.14	0.90	7	0.13	17.44 ± 20.58	122.10	0.12	0.93
Salmeterol Accuhaler 0.05mg 60 Dose							2	0.04	15.79 ± 0	31.58	0.03	0.84
Theophylline Syr 200ml	51	0.81	4.02 ± 1.94	204.95	0.17	0.21	47	0.86	5.52 ± 0.79	259.39	0.25	0.29
Theophylline Syr 25mg/5ml 500ml	1	0.02	3.02 ± 0	3.02	0.00	0.16						
Theophylline Anhydrous Tabs 200mg 60s	5	0.08	7.67 ± 6.14	38.34	0.03	0.40	14	0.26	12.49 ± 4.58	174.84	0.17	0.67
Theophylline Anhydrous Tabs 250mg 56s	5	0.08	2.59 ± 2.37	12.96	0.01	0.13	3	0.05	13.20 ± 0	39.60	0.04	0.70
Mist Expectorant Stim Syr Adult 200ml	15	0.24	1.68 ± 0.66	25.19	0.02	0.09	24	0.44	2.41 ± 0	57.84	0.06	0.13
Mist Tussi Infants Mist 100ml	7	0.11	1.76 ± 0.89	12.31	0.01	0.09	24	0.44	2.14 ± 0.76	51.27	0.05	0.11
Ethionamide Tabs 250mg 250s	3	0.05	8.87 ± 3.84	26.62	0.02	0.46						
Pyrazinamide Tabs 500mg 28s	1	0.02	0.12 ± 0	0.12	0.00	0.01						
Rifampicin Caps 150mg 100s	3	0.05	7.47 ± 3.56	22.41	0.02	0.39						
Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	41	0.65	6.86 ± 9.14	281.20	0.23	0.35	2	0.04	6.67 ± 0	13.34	0.01	0.36
Rifampicin 150mg, Isoniazid 75mg Tabs 60s	20	0.32	26.13 ± 18.23	522.56	0.43	1.35	4	0.07	32.78 ± 8.18	131.10	0.13	1.75
Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	71	1.13	25.34 ± 22.02	1799.08	1.48	1.31	24	0.44	42.78 ± 9.32	1020.24	0.99	**2.26**
Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s	1	0.02	83.91 ± 0	83.91	0.07	**4.34**						
Rifampicin 300mg & Isoniazid 150mg Tabs 40s							4	0.07	33.96 ± 0	135.82	0.13	1.81
Streptomycin Inj 1g/3ml	3	0.05	23.31 ± 4.64	69.92	0.06	1.20						
Streptomycin Sulphate Inj 5g/15ml	3	0.05	4.56 ± 2.85	13.68	0.01	0.24						
Pseudoephedrine Sulphate Syr 30mg/5ml 50ml							1	0.02	2.82 ± 0	2.82	0.00	0.15
Pseudoephedrine Tabs 60mg 20s	1	0.02	2.35 ± 0	2.35	0.00	0.12	8	0.15	2.35 ± 0	18.81	0.02	0.13

Appendix D.24: Average cost per medicine item according to therapeutic codes (continue)

Therapeutic code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Chlorpheniramine Mal Tabs 4mg 30s	23	0.37	1.66 ± 0.80	38.21	0.03	0.09	64	1.17	2.14 ± 0.20	137.26	0.13	0.11
Promethazine Inj 25mg/ml 1ml	3	0.05	0.90 ± 0.88	2.70	0.00	0.05						
Promethazine Inj 25mg/ml 2ml							6	0.11	1.66 ± 0.52	10.00	0.01	0.09
Promethazine Tabs 25mg 500s	2	0.03	0.46 ± 0.57	0.92	0.00	0.02	9	0.16	2.41 ± 2.36	21.67	0.02	0.13
Chlorpheniramine Mal Syr 2mg/5ml 50ml	4	0.06	1.24 ± 0.28	4.95	0.00	0.06	13	0.24	1.43 ± 0.08	18.63	0.02	0.08
Total	**6288**	**100**		**121712.14**	**100**		**5480**	**100**		**102902.33**	**100**	

* Percentage was calculated for therapeutic codes according to the total number of medicine items dispenced to inpatients and outpatients respectively

** Percentage was calclated for therapeutic codes according to the total cost for inpatients and outpatiets respectively

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Amoxycillin Caps 250mg 15s	2	0.09	0.97 ± 0.17	1.94	0.00	0.05	9	0.43	1.75 ± 0.21	15.72	0.04	0.09
	Amoxycillin Caps 500mg 15s	22	0.97	2.80 ± 1.75	61.51	0.14	0.14	46	2.20	3.43 ± 0.15	157.97	0.37	0.17
	Amoxycillin Susp 125mg/5ml 100ml	21	0.93	2.34 ± 0.70	49.21	0.11	0.12	13	0.62	2.82 ± 0.72	36.60	0.09	0.14
	Amoxycillin Susp 250mg/5ml 100ml	1	0.04	3.83 ± 0	3.83	0.01	0.20	2	0.10	3.83 ± 0	7.66	0.02	0.19
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	13	0.58	102.72 ± 76.41	1335.36	**3.02**	**5.25**						
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	6	0.27	12.19 ± 0	73.14	0.17	0.62	3	0.14	12.19 ± 0	36.57	0.09	0.60
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	27	1.19	18.30 ± 0.47	494.17	1.12	0.94	25	1.19	17.12 ± 4.42	428.02	1.01	0.85
	Ampicillin Inj 250mg	48	2.12	12.25 ± 15.23	588.13	1.33	0.63						
	Ampicillin Inj 500mg	57	2.52	108.61 ± 91.15	6191.05	**14.01**	**5.55**	2	0.10	16.32 ± 0	32.64	0.08	0.81
	Benzathine Penicillin G Inj. 2.4Mu Vials	2	0.09	11.98 ± 0	23.97	0.05	0.61	2	0.10	11.98 ± 0	23.97	0.06	0.59
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	2	0.09	257.67 ± 0	514.74	1.16	**13.16**	2	0.10	180.16 ± 109.19	360.32	0.85	**8.93**
	Ciprofloxacin Tabs 500mg 10s	14	0.62	1.11 ± 0.93	15.54	0.04	0.06	15	0.72	1.07 ± 1.11	16.07	0.04	0.05
	Clindamycin Caps 150mg 100s							2	0.10	22.94 ± 15.36	45.88	0.11	1.14
	Cloxacillin IV Inj 500mg	15	0.66	78.38 ± 49.15	1175.76	2.66	**4.01**						
	Co-Trimoxazole for IV Infus 480mg 5ml	2	0.09	9.90 ± 0	19.80	0.04	0.51						
	Flucloxacillin Caps 250mg 20s	18	0.80	14.34 ± 5.66	258.11	0.58	0.73	16	0.76	17.06 ± 6.50	272.93	0.65	0.85
	Fluconazole Caps 50mg 14s	1	0.04	157.19 ± 0	157.19	0.36	**8.04**						
	Fluconazole Caps 200mg 28s	2	0.09	31.50 ± 29.68	62.99	0.14	1.61						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	4	0.18	296.52 ± 222.62	1186.07	2.68	**15.16**						
	Gentamicin Inj 40mg/ml 1ml	40	1.77	3.12 ± 3.36	124.98	0.28	0.16						
	Gentamicin Inj 80mg/2ml 2ml	49	2.17	16.99 ± 12.20	832.65	1.88	0.87						

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Ketoconazole Tabs 200mg 30s	1	0.04	92.50 ± 0	92.50	0.21	**4.73**	5	0.24	57.35 ± 32.96	286.75	0.68	**2.84**
	Nalidixic Acid Susp 250mg/ml 100ml	1	0.04	27.33 ± 0	27.33	0.06	1.40						
	Nalidixic Acid Tabs 500mg 100s	3	0.13	25.95 ± 5.29	77.85	0.18	1.33	4	0.19	40.10 ± 11.67	160.39	0.38	1.99
	Nitrofurantoin Caps 100mg 50s	1	0.04	24.75 ± 0	24.75	0.06	1.27						
	Phenoxymethyl Penicillin Tabs 250mg 20s	2	0.09	7.74 ± 3.65	15.48	0.04	0.40	1	0.05	2.58 ± 0	2.58	0.01	0.13
	Phenoxymethyl Penicillin Tabs 250mg 100s							1	0.05	10.03 ± 0	10.04	0.02	0.50
	Nitrofurantoin Caps 100mg 30s							2	0.10	20.58 ± 3.09	41.16	0.10	1.02
	Cefazolin Inj 500mg	5	0.22	330.53 ± 264.42	1652.65	**3.74**	**16.90**	2	0.10	49.58 ± 23.37	99.16	0.23	**2.46**
	Cefotaxime Inj 500mg	1	0.04	51.21 ± 0	51.21	0.12	**2.62**						
	Cefotaxime Inj 1g/15ml							1	0.05	7.17 ± 0	7.17	0.02	0.36
	Ceftriaxone IM Inj 250mg	14	0.62	341.40 ± 311.90	4779.60	**10.81**	**17.46**						
	Ceftriaxone Inj 1g	25	1.11	39.43 ± 43.47	985.77	2.23	**2.02**	3	0.14	9.24 ± 0	27.73	0.07	0.46
	Co-trimoxazole Tabs 480mg 20s	28	1.24	1.15 ± 0.82	32.19	0.07	0.06	20	0.95	2.97 ± 1.52	59.33	0.14	0.15
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	17	0.75	4.53 ± 0	77.04	0.17	0.23	55	2.63	4.66 ± 0.92	256.06	0.61	0.23
	Co-trimoxazole Susp 200/40mg/5ml 50ml	51	2.26	1.35 ± 1.81	68.61	0.16	0.07	14	0.67	6.72 ± 6.94	94.08	0.22	0.33
	Co-trimoxazole Syr 200/40mg/5ml 100ml	6	0.27	3.16 ± 2.04	18.99	0.04	0.16	9	0.43	4.27 ± 1.29	38.43	0.09	0.21
	Doxycycline Caps 100mg 14s	5	0.22	1.75 ± 1.02	8.77	0.02	0.09	14	0.67	1.67 ± 0.42	23.31	0.06	0.08
	Erythromycin Susp 125mg/5ml 100ml	2	0.09	7.41 ± 0	14.82	0.03	0.38	1	0.05	7.41 ± 0	7.41	0.02	0.37
	Erythromycin Tabs 250mg 20s	4	0.18	12.18 ± 7.65	48.72	0.11	0.62	10	0.48	18.48 ± 8.68	184.80	0.44	0.92
	Metronidazole IV Inj 500mg/ml 100ml	36	1.59	0.24 ± 0.16	8.70	0.02	0.01	4	0.19	32.59 ± 8.68	130.38	0.31	1.62
	Metronidazole Tabs 200mg 21s	30	1.33	1.49 ± 0.73	44.82	0.10	0.08	17	0.81	1.71 ± 0.58	29.12	0.07	0.08
	Metronidazole Susp 200mg/5ml 50ml							2	0.10	6.62 ± 0	13.25	0.03	0.33
	Metronidazole Susp 200mg/5ml 100ml							1	0.05	1.83 ± 0	1.83	0.00	0.09

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Acyclovir Cream 5% 2g							1	0.05	3.09 ± 0	3.09	0.01	0.15
	Efavirenz Caps 50mg 30s	1	0.04	2.61 ± 0	2.61	0.01	0.13	8	0.38	473.97 ± 180.62	3791.78	**8.97**	**23.49**
	Efavirenz Caps 200mg 90s	9	0.40	64.94 ± 31.11	584.48	1.32	**3.32**	12	0.57	85.12 ± 51.83	1021.41	2.42	**4.22**
	Efavirenz Caps 600mg 30s	5	0.22	247.34 ± 0	1236.72	2.80	**12.65**	42	2.00	259.12 ± 53.31	10883.14	**25.75**	**12.84**
	Lamivudine Oral Sol 10mg/ml 240ml	9	0.40	31.80 ± 19.35	286.16	0.65	1.63	8	0.38	43.41 ± 22.07	347.24	0.82	**2.15**
	Lamivudine Tabs 150mg 60s	5	0.22	42.97 ± 0	214.83	0.49	**2.20**	43	2.05	42.55 ± 9.58	1829.58	**4.33**	**2.11**
	Stavudine Caps 20mg 60s	8	0.35	18.99 ± 9.18	151.88	0.34	0.97	7	0.33	16.40 ± 5.87	114.77	0.27	0.81
	Stavudine D4t Caps 30mg 60s	1	0.04	19.50 ± 0	19.50	0.04	1.00	14	0.67	19.50 ± 0	273.00	0.65	0.97
	Stavudine D4t Caps 40mg 60s	4	0.18	21.19 ± 0	84.77	0.19	1.08	29	1.38	21.92 ± 3.94	635.76	1.50	1.09
	Stavudine D4t Sol 200ml							4	0.19	170.47 ± 60.17	681.87	1.61	**8.45**
	Griseofulvin Tabs 125mg 100s							1	0.05	11.99 ± 0	11.99	0.03	0.59
	Nystatin Oral Susp 100 000Iu 20ml	4	0.18	2.59 ± 1.74	10.38	0.02	0.13	3	0.14	3.99 ± 0	11.97	0.03	0.20
	Glyceryl Trinitrate SL Tabs 0.5mg 50s	2	0.09	0.86 ± 0.61	1.72	0.00	0.04	2	0.10	4.29 ± 0	8.56	0.02	0.21
	Glyceryl Trinitrate Inj 5mg/ml 5ml	9	0.40	1.23 ± 1.00	11.10	0.03	0.06	3	0.14	2.07 ± 0	6.22	0.01	0.10
	Glyceryl Trinitrate Inj 50mg/ml 10ml	3	0.13	2.15 ± 1.68	6.46	0.01	0.11	3	0.14	3.12 ± 0	9.37	0.02	0.15
	Verapamil Tabs 40mg 500s	1	0.04	32.59 ± 0	32.59	0.07	1.67						
	Verapamil Tabs 80mg 250s	3	0.13	2.32 ± 2.19	6.96	0.02	0.12	19	0.91	2.58 ± 0075	48.96	0.12	0.13
	Enalapril Tabs 20mg 28s	3	0.13	1.50 ± 1.83	4.51	0.01	0.08	4	0.19	3.60 ± 0	14.42	0.03	0.18
	Furosemide Tabs 40mg 28s	13	0.58	14.79 ± 11.62	192.32	0.44	0.76	11	0.53	31.06 ± 12.36	341.66	0.81	1.54
	Furosemide Tabs 40mg 56s	1	0.04	2.89 ± 0	2.89	0.01	0.15						
	Furosemide Inj 10mg/ml 2ml	4	0.18	5.30 ± 3.90	21.18	0.05	0.27						
	Furosemide Inj 10mg/ml 25ml	1	0.04	31.83 ± 0	31.83	0.07	1.63	1	0.05	0.93 ± 0	0.93	0.00	0.05
	Hydralazine Tabs 25mg 500s							1	0.05	6.72 ± 0	6.72	0.02	0.33
	Hydrochlorothiazide Tabs 25mg 14s	3	0.13	6.60 ± 4.57	19.81	0.04	0.34	3	0.14	9.24 ± 0	27.73	0.07	0.46
	Hydrochlorothiazide Tabs 25mg 28s	26	1.15	0.59 ± 0.41	15.41	0.03	0.03	37	1.77	0.92 ± 0.08	33.95	0.08	0.05
	Indapamide Tabs 2.5mg 30s							4	0.19	3.06 ± 1.23	12.25	0.03	0.15
	Mannitol Inj for IV use 20% 50ml	1	0.04	210.00 ± 0	210.00	0.48	**10.74**						
	Nifedipine Tabs SR 30mg 28s	5	0.22	5.98 ± 9.09	29.90	0.07	0.31	12	0.57	22.11 ± 0	265.37	0.63	1.10
	Nifedipine Tabs SR 60mg 28s	5	0.22	38.93 ± 28.82	194.65	0.44	1.99	15	0.72	57.39 ± 9.76	860.88	2.04	**2.84**

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Perindopril Tabs 4mg 28s	27	1.19	6.39 ± 5.47	172.43	0.39	0.33	11	0.53	14.69 ± 7.00	161.62	0.38	0.73
	Prazosin Tabs 1mg 14s	1	0.04	28.39 ± 0	28.39	0.06	1.45	3	0.14	9.46 ± 0	28.39	0.07	0.47
	Propranolol Tabs 40mg 28s	1	0.04	0.88 ± 0	0.88	0.00	0.04						
	Spironolactone Tabs 25mg 240s							5	0.24	21.94 ± 10.41	109.70	0.26	1.09
	Digoxin Tabs 0.25mg 14s	5	0.22	1.61 ± 1.61	8.07	0.02	0.08	2	0.10	3.37 ± 0	6.74	0.02	0.17
	Digoxin Tabs 0.25mg 28s	1	0.04	4.07 ± 0	4.07	0.01	0.21	3	0.14	4.07 ± 0	12.21	0.03	0.20
	Enoxaparin Prefilled Syr SC 40mg/0.4ml	5	0.22	47.60 ± 34.84	238.00	0.54	**2.43**						
	HeparinIV Inj 5 000Iu/ml 5ml	7	0.31	27.93 ± 14.51	195.48	0.44	1.43						
	Streptokinase Inj 1 500 000Iu							1	0.05	1.00 ± 0	1.00	0.00	0.05
	Tranexamic Acid Inj 100mg/ml 5ml 5s	7	0.31	71.11 ± 34.45	497.76	1.13	**3.64**						
	Tranexamic Acid Tabs 500mg 60s	1	0.04	16.05 ± 0	16.05	0.04	0.82						
	Warfarin Sodium Tabs 5mg 28s							5	0.24	21.79 ± 3.48	108.96	0.26	1.08
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	27	1.19	0.67 ± 0.66	17.99	0.04	0.03	7	0.33	1.38 ± 0.44	9.67	0.02	0.07
	Ferrous Sulphate Co Tabs eq 65mg Fe 84s	1	0.04	4.17 ± 0	4.17	0.01	0.21	1	0.05	4.17 ± 0	4.17	0.01	0.21
	Ferrous Lactate Drops eq 25mg Fe/ml 10ml							1	0.05	57.48 ± 0	57.48	0.14	2.85
	Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	6	0.27	6.15 ± 4.35	36.89	0.08	0.31						
	Folic Acid Tabs 5mg 28s	65	2.88	0.42 ± 0.51	27.34	0.06	0.02	15	0.72	0.90 ± 0.21	13.46	0.03	0.04
	Phytomenadione IM Inj 10mg/ml 1ml	2	0.09	23.38 ± 16.53	46.77	0.11	1.20						
	Simvastatin Tabs 10mg 28s							3	0.14	6.62 ± 0	19.86	0.05	0.33
	Simvastatin Tabs 20mg 28s							2	0.10	9.60 ± 0	19.19	0.05	0.48
	Clotrimazole Cream 1% 20g	1	0.04	2.50 ± 0	2.50	0.01	0.13	6	0.29	3.40 ± 1.32	20.40	0.05	0.17
	Gentian Violet Sol 0.5% 20ml							1	0.05	1.12 ± 0	1.12	0.00	0.06
	Malic Acid, Benz Acid & Salicyl Acid Cream 50g	1	0.04	17.49 ± 0	17.49	0.04	0.89						
	Miconazole Nitrate cream 2% 40g							1	0.05	39.93 ± 0	39.93	0.09	1.98

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male													
	Miconazole Nitrate Oral Gel 2% 30g	2	0.09	45.28 ± 0.06	90.56	0.20	**2.32**						
	Mupirocin Topical Oint 2% 15g	2	0.09	16.53 ± 0	33.06	0.07	0.85						
	Nystatin Vaginal Cream 100 000Iu 60g							1	0.05	50.21 ± 0	50.21	0.12	**2.49**
	Nystatin Vaginal Tabs 15s	1	0.04	3.06 ± 0	3.06	0.01	0.16						
	Selenium Sulphide Shampoo 2.5% 50ml							1	0.05	19.30 ± 0	19.30	0.05	0.96
	Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	1	0.04	5.31 ± 0	5.31	0.01	0.27						
	Mercurochrome Sol 1% 20ml	1	0.04	1.18 ± 0	1.18	0.00	0.06	1	0.05	1.18 ± 0	1.18	0.00	0.06
	Podophyllum Resin 25g	1	0.04	42.66 ± 0	42.66	0.10	**2.18**	1	0.05	42.66 ± 0	42.66	0.10	**2.11**
	Podophyllum Resin Oint 10g	1	0.04	21.05 ± 0	21.05	0.05	1.08	8	0.38	23.68 ± 7.44	189.78	0.45	1.18
	Silver Sulphadiazine Cream 50g							1	0.05	8.25 ± 0	8.24	0.02	0.41
	Silver Sulphadiazine Cream 500g	1	0.04	120.00 ± 0	120.00	0.27	**6.14**						
	Calamine Lotion 100ml							1	0.05	1.22 ± 0	1.22	0.00	0.06
	Hydrocortisone Cream 1% 20g							4	0.19	3.45 ± 0	13.79	0.03	0.17
	Indomethacin Caps 25mg 28s	1	0.04	1.04 ± 0	1.04	0.00	0.05	10	0.48	1.77 ± 0.70	17.75	0.04	0.09
	Indomethacin Supps 100mg 10s	3	0.13	4.56 ± 5.92	13.68	0.03	0.23						
	Benzoyl Peroxide Cream 5% 40g							1	0.05	18.23 ± 0	18.23	0.04	0.90
	Benzyl Benzoate Emuls 100ml	4	0.18	1.02 ± 0.51	4.07	0.01	0.05	2	0.10	1.27 ± 0	2.54	0.01	0.06
	Aqueous Cream 100g							6	0.29	1.02 ± 0	6.09	0.01	0.05
	Aqueous Cream 500g	1	0.04	3.12 ± 0	3.12	0.01	0.16						
	Emulsifying Oint 500g	1	0.04	10.79 ± 0	10.74	0.02	0.55						
	Zinc & Castor Oil Oint 25g							4	0.19	0.83 ± 0	3.33	0.01	0.04
	Povidone Iodine Oint 25g	2	0.09	1.72 ± 0	3.45	0.01	0.09	1	0.05	1.72 ± 0	1.72	0.00	0.09
	Povidone Iodine Sol 1000ml	2	0.09	16.96 ± 0	33.93	0.08	0.87	1	0.05	16.96 ± 0	16.96	0.04	0.84
	Acyclovir Tabs 200mg 25s							8	0.38	23.16 ± 10.92	185.24	0.44	1.15
	Chloramphenicol Eye Drops 0.5% 10ml							1	0.05	29.82 ± 0	29.82	0.07	1.48
	Chloramphenicol Eye Oint 1% 3.5g	7	0.31	1.92 ± 0.63	13.44	0.03	0.10	7	0.33	1.68 ± 0	11.76	0.03	0.08
	Amethocaine Cream 1% 25g							1	0.05	60.00 ± 0	60.00	0.14	**2.97**

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Antazoline Tetrahydrozoline Eye Drops 10ml							6	0.29	4.73 ± 0	28.37	0.07	0.23
	Acetic Acid Ear Drops 1% in normal saline 10ml	1	0.04	0.06 ± 0	0.06	0.00	0.00	1	0.05	2.75 ± 0	2.75	0.01	0.14
	Acetic Acid Ear Drops 2% in alcohol							1	0.05	6.43 ± 0	6.43	0.02	0.32
	Oxymetazoline Nose Drops 0.025% 10ml							1	0.05	7.37 ± 0	7.37	0.02	0.37
	Sodium Chloride Nose Drops 0.9% 10ml	1	0.04	0.02 ± 0	0.02	0.00	0.00	4	0.19	2.75 ± 0	11.00	0.03	0.14
	Arachis Oil, Paradichlorbenzene chlorbut 10ml	1	0.04	17.00 ± 0	17.00	0.04	0.87	3	0.14	17.00 ± 0	51.00	0.12	0.84
	Betamethasone In Uea Cream 10% 500g							1	0.05	11.73 ± 0	11.73	0.03	0.58
	Betamethasone Valerate Cream 0.1% 15g							3	0.14	17.00 ± 0	5.70	0.01	0.09
	Insulin Actraphane Hm 100Iu/ml 10ml	3	0.13	73.39 ± 0	220.16	0.50	**3.75**	14	0.67	83.87 ± 44.19	1174.18	2.78	**4.16**
	Insulin Actrapid Hm 100Iu/ml 10ml	1	0.04	0.37 ± 0	0.37	0.00	0.02	1	0.05	0.37 ± 0	0.37	0.00	0.02
	Insulin Needles 1s	2	0.09	3.86 ± 0	7.72	0.02	0.20	12	0.57	4.25 ± 2.11	50.95	0.12	0.21
	Gliclazide Tabs 80mg 56s	4	0.18	6.08 ± 0	24.34	0.06	0.31	4	0.19	10.65 ± 3.04	42.59	0.10	0.53
	Gliclazide Tabs 80mg 28s	5	0.22	0.93 ± 1.32	4.66	0.01	0.05						
	Metformin Tabs 850mg 56s	12	0.53	3.73 ± 3.93	44.71	0.10	0.19						
	Metformin Tabs 850mg 84s	5	0.22	8.95 ± 4.57	44.77	0.10	0.46	6	0.29	11.00 ± 0	66.00	0.16	0.55
	Dexamethasone IM Inj 4mg/ml 1ml	5	0.22	15.56 ± 12.08	77.81	0.18	0.80	1	0.05	4.10 ± 0	4.10	0.01	0.20
	Fludrocortisone Acetate Tabs 0.1mg 100s							1	0.05	17.83 ± 0	17.83	0.04	0.88
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	9	0.40	31.50 ± 23.00	283.46	0.64	1.61	5	0.24	24.96 ± 9.76	124.79	0.30	1.24
	Methylprednisolone Inj 40mg/ml 1ml	2	0.09	11.13 ± 5.24	22.25	0.05	0.57						
	Methylprednisolone Inj 40mg/ml 2ml							1	0.05	8.17 ± 0	8.17	0.02	0.40

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Prednisolone Syr 15mg/5ml 50ml	7	0.31	13.20 ± 8.31	92.42	0.21	0.68						
	Prednisone Tabs 5mg 28s	22	0.97	1.59 ± 2.02	34.96	0.08	0.08	44	2.10	2.20 ± 1.87	96.89	0.23	0.11
	Prednisone Tabs 5mg 100s							8	0.38	30.01 ± 24.87	240.19	0.57	1.49
	Carbamazepine Susp 100mg/5ml 250ml							1	0.05	67.89 ± 0	67.89	0.16	**3.37**
	Carbamazepine CR Tabs 200mg 30s	17	0.75	10.37 ± 8.69	176.28	0.40	0.53	30	1.43	16.79 ± 6.87	503.60	1.19	0.83
	Carbamazepine CR Tabs 400mg 30s	3	0.13	14.09 ± 18.82	42.25	0.10	0.72	36	1.72	35.64 ± 17.20	1282.93	**3.04**	1.77
	Lamotrigine Tabs 25mg 60s							1	0.05	30.00 ± 0	30.00	0.07	1.49
	Lorazepam Inj 4mg/ml 1ml	7	0.31	37.09 ± 44.10	259.66	0.59	1.90						
	Lorazepam Tabs 1mg 100s							1	0.05	12.21 ± 0	12.21	0.03	0.61
	Lorazepam Tabs 2.5mg 100s							1	0.05	6.02 ± 0	6.02	0.01	0.30
	Phenobarbitone Tabs 30mg 28s	7	0.31	0.62 ± 0.50	4.36	0.01	0.03						
	Phenobarbitone Tabs 30mg 56s	4	0.18	3.29 ± 0	13.18	0.03	0.17	11	0.53	3.59 ± 1.44	39.53	0.09	0.18
	Phenobarbitone Vit Nicot Syrup 100ml	2	0.09	40.98 ± 28.98	81.96	0.19	**2.10**						
	Phenytoin Caps 100mg 84s	15	0.66	16.46 ± 12.20	246.93	0.56	0.84	1	0.05	26.06 ± 0	26.06	0.06	1.29
	Phenytoin Inj 50mg/ml 5ml	2	0.09	93.28 ± 0	186.56	0.42	**4.77**						
	Sodium Valproate Liquid Sugar Free 200mg 300ml							1	0.05	85.35 ± 0	85.35	0.20	**4.23**
	Sodium Valproate Tabs 200mg 28s							4	0.19	39.18 ± 0	156.70	0.37	1.94
	Valproic Acid Caps 500mg 100s							2	0.10	41.75 ± 0	83.51	0.20	**2.07**
	Lamotrigine Tabs 25mg 28s							1	0.05	14.00 ± 0	28.00	0.07	1.39
	Fluphenazine Decanoate Inj 25mg/ml 1ml							1	0.05	8.82 ± 0	8.82	0.02	0.44
	Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml							2	0.10	16.61 ± 0	33.23	0.08	0.82
	Chlorpromazine Inj 25mg/ml 1ml	1	0.04	0.72 ± 0	0.72	0.00	0.04						
	Chlorpromazine Tabs 50mg 500s	1	0.04	198.04 ± 0	198.04	0.45	**10.13**	3	0.14	5.16 ± 1.79	15.49	0.04	0.26
	Chlorpromazine Tabs 100mg 500s							3	0.14	4.99 ± 0	14.98	0.04	0.25
	Haloperidol Inj 5mg/ml 1ml	5	0.22	43.35 ± 0	216.73	0.49	**2.22**						
	Haloperidol Tabs 5mg 14s	9	0.40	0.73 ± 0.84	6.56	0.01	0.04						

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Haloperidol Tabs 5mg 56s							3	0.14	3.40 ± 1.47	10.20	0.02	0.17
	Chlorpromazine Tabs 25mg 28s	5	0.22	1.46 ± 0.74	7.29	0.02	0.07						
	Amitriptyline Tabs 25mg 28s	10	0.44	19.45 ± 23.53	194.54	0.44	0.99	21	1.00	21.57 ± 4.49	452.87	1.07	1.07
	Fluoxetine Caps 20mg 28s	8	0.35	0.75 ± 0.89	6.01	0.01	0.04	4	0.19	2.52 ± 0	10.08	0.02	0.12
	Diazepam Inj 5mg/ml 2ml	8	0.35	1.25 ± 0.62	9.98	0.02	0.06	3	0.14	0.70 ± 0.30	2.10	0.00	0.03
	Diazepam Tabs 5mg 10s	14	0.62	0.14 ± 0.14	1.96	0.00	0.01	2	0.10	.021 ± 0.20	0.41	0.00	0.01
	Naloxone Inj 0.4mg/ml 1ml							1	0.05	1.40 ± 0	1.40	0.00	0.07
	Orphenadrine Tabs 50mg 28s	3	0.13	4.98 ± 4.84	14.95	0.03	0.25	11	0.53	4.93 ± 0	54.18	0.13	0.24
	Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	2	0.09	19.80 ± 0	39.60	0.09	1.01						
	Albendazole Susp 100mg/5ml 20ml	7	0.31	7.05 ± 0	49.36	0.11	0.36	2	0.10	7.05 ± 0	14.10	0.03	0.35
	Albendazole Tabs 200mg 2s	2	0.09	5.84 ± 0	11.68	0.03	0.30	4	0.19	10.22 ± 5.59	40.87	0.10	0.51
	Mebendazole Susp 30ml	18	0.80	15.67 ± 12.17	282.12	0.64	0.80	13	0.62	27.33 ± 0	355.33	0.84	1.35
	Cimetidine IV Inj 100mg/ml 2ml	5	0.22	7.72 ± 7.71	38.61	0.09	0.39						
	Cimetidine Tabs 200mg 30s	7	0.31	0.90 ± 0.68	6.29	0.01	0.05	2	0.10	1.08 ± 0.51	2.16	0.01	0.05
	Cimetidine Tabs 400mg 60s	7	0.31	2.79 ± 2.32	19.56	0.04	0.14	10	0.48	6.70 ± 3.09	66.98	0.16	0.33
	Magnesium Trisillicate Co Mixt 200ml							1	0.05	2.29 ± 0	2.29	0.01	0.11
	Ranitidine HCl Tabs 300mg 30s	1	0.04	12.26 ± 0	12.26	0.03	0.63						
	Omeprazole Caps 20mg 30s							1	0.05	1.44 ± 0	1.44	0.00	0.07
	Cinnarizine Tabs 25mg 100s							1	0.05	2.56 ± 0	2.56	0.01	0.13
	Metoclopramide Inj 5mg/ml 2ml	16	0.71	6.39 ± 6.22	102.24	0.23	0.33	3	0.14	2.13 ± 0	6.39	0.02	0.11
	Metoclopramide Syr 5mg/5ml 50ml	1	0.04	0.60 ± 0	0.60	0.00	0.03	1	0.05	2.41 ± 0	2.41	0.01	0.12
	Metoclopramide Tabs 10mg 15s	5	0.22	0.47 ± 0	2.36	0.01	0.02	5	0.24	1.32 ± 1.90	6.61	0.02	0.07
	Sucralfate Tabs 1g 120s	9	0.40	0.50 ± 0.24	4.54	0.01	0.03	4	0.19	1.30 ± 0	5.19	0.01	0.06
	Bismuth Sub Oxi Res Nic Zinc Oint 25g							1	0.05	13.40 ± 0	13.40	0.03	0.66
	Bismuth Sub Oxi Res Nic Ainc Supps 10s	3	0.13	9.85 ± 7.31	29.55	0.07	0.50	4	0.19	14.07 ± 0	56.28	0.13	0.70
	Glycerine Supps Adult 12s	1	0.04	23.25 ± 0	23.25	0.05	1.19						
	Lactulose Syr 3.35mg/5ml 150ml							1	0.05	9.74 ± 0	9.74	0.02	0.48
	Senna Tabs 100's	2	0.09	1.66 ± 1.41	3.31	0.01	0.08						
	Senna Tabs 7.5mg 12s	2	0.09	2.20 ± 0.64	4.40	0.01	0.11	1	0.05	2.65 ± 0	2.65	0.01	0.13

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Half Darrows & Glucose 5% Sol 200ml	10	0.44	13.76 ± 12.84	137.55	0.31	0.70						
	Half Darrows & Glucose 5% Sol 500ml	3	0.13	15.79 ± 2.11	47.37	0.11	0.81						
	Loperamide Tabs 2mg 6s	2	0.09	0.85 ± 0	1.70	0.00	0.04	2	0.10	1.27 ± 0.60	2.54	0.01	0.06
	Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s							1	0.05	0.80 ± 0	0.80	0.00	0.04
	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	1	0.04	1.12 ± 0	1.12	0.00	0.06	1	0.05	1.12 ± 0	1.12	0.00	0.06
	Hyoscine-N-Butylbromide Tabs 10mg 10s							2	0.10	3.41 ± 1.61	6.82	0.02	0.17
	Hyoscine-N-Butylbromide Inj 50mg/ml							2	0.10	2.50 ± 1.42	5.00	0.01	0.12
	Hyoscine-N-Butylbromide Tabs 10mg 15s							1	0.05	1.12 ± 0	1.12	0.00	0.06
	Liquid Paraffin 200ml	3	0.13	3.03 ± 1.57	9.08	0.02	0.15	3	0.14	4.43 ± 0	13.28	0.03	0.22
	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	16	0.71	0.59 ± 0.19	9.50	0.02	0.03	7	0.33	0.76 ± 0.44	5.32	0.01	0.04
	Thymol Glycerine B.P. Mouth wash 100ml	7	0.31	0.74 ± 0.50	5.62	0.01	0.04	8	0.38	1.27 ± 0	10.13	0.02	0.06
	Electrolyte no 2 Sol 1000ml	2	0.09	24.33 ± 0	48.66	0.11	1.24						
	Ringers Lactate 2000ml	1	0.04	10.05 ± 0	10.05	0.02	0.51						
	Ringers Lactate Sol 200ml	1	0.04	10.00 ± 0	10.00	0.02	0.51						
	Ringers Lactate Sol 1000ml	22	0.97	15.99 ± 17.73	351.86	0.80	0.82						
	Sodium Chloride 0.9% for Irrigation 1000ml	1	0.04	1.29 ± 0	1.29	0.00	0.07						
	Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.04	17.54 ± 0	17.54	0.04	0.90						
	Sodium Chloride 0.9% Inj 1000ml	11	0.49	11.34 ± 8.23	124.78	0.28	0.58						
	Calcium Gluconate Tabs 300mg 28s	1	0.04	1.54 ± 0	1.54	0.00	0.08	3	0.14	0.51 ± 0	1.54	0.00	0.03

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Magnesium Chloride Tabs 500-700mg 100s	2	0.09	10..68 ± 8.39	21.36	0.05	0.55						
	Potassium Chloride Syr 300mg/5ml 100ml	12	0.53	1.30 ± 0.85	15.58	0.04	0.07						
	Potassium Chloride Slow Tabs 600mg 14s	11	0.49	1.63 ± 1.98	17.95	0.04	0.08	9	0.43	2.76 ± 1.04	24.84	0.06	0.14
	Potassium Citrate Mixture 100ml	3	0.13	0.94 ± 1.22	2.82	0.01	0.05	5	0.24	2.35 ± 0	11.76	0.03	0.12
	Thiamine IV Inj Vit B1 100mg/ml 10ml	1	0.04	1.02 ± 0	1.02	0.00	0.05						
	Thiamine Tabs 100mg 28s	9	0.40	1.68 ± 1.99	15.14	0.03	0.09	1	0.05	4.33 ± 0	4.33	0.01	0.21
	Vitamin A Caps 100 000Iu 250s	8	0.35	0.39 ± 0.15	3.12	0.01	0.02	1	0.05	2.84 ± 0	2.84	0.01	0.14
	Vitamin A Tabs 50 000Iu 200s	1	0.04	0.10 ± 0	0.10	0.00	0.01						
	Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	2	0.09	7.91 ± 0	15.82	0.04	0.40	18	0.86	9.23 ± 3.03	166.15	0.39	0.46
	Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	1	0.04	10.27 ± 0	10.27	0.02	0.53						
	Vitamin B Co Inj 10ml (IM)							1	0.05	1.20 ± 0	1.20	0.00	0.06
	Vitamin B Co Strong Tabs 28s	14	0.62	0.20 ± 0.24	2.73	0.01	0.01	31	1.48	0.84 ± 0.34	26.16	0.06	0.04
	Vitamin B Co Syr 100ml	7	0.31	0.68 ± 0.77	4.76	0.01	0.03	1	0.05	1.09 ± 0	1.09	0.00	0.05
	Vitamin B6 Tabs 25mg 28s	36	1.59	1.11 ± 0.90	39.82	0.09	0.06	16	0.76	1.99 ± 0	31.86	0.08	0.10
	Vitamin C Tabs 100mg 28s	2	0.09	1.08 ± 0.51	2.17	0.00	0.06	8	0.38	0.81 ± 0.26	6.51	0.02	0.04
	Vitamin C Tabs 250mg 100s	9	0.40	1.81 ± 0.81	16.33	0.04	0.09	24	1.15	1.52 ± 0.61	36.44	0.09	0.08
	Vitamin Multiple Oral drops 25ml	1	0.04	11.81 ± 0	11.81	0.03	0.60						
	Vitamin Multiple Syr 100ml	78	3.45	0.81 ± 0.80	63.14	0.14	0.04	37	1.77	1.64 ± 0.54	49.61	0.12	0.07
	Vitamin Multiple Tabs 28s	88	3.89	0.32 ± 0.27	28.07	0.06	0.02	102	4.87	0.57 ± 0.62	58.40	0.14	0.03
	Bettaway Children's Own Tabs 60s	1	0.04	3.50 ± 0	3.50	0.01	0.18						
	Dextrose Sol for IV Infus 5% 50ml	1	0.04	7.87 ± 0	7.87	0.02	0.40						
	Dextrose Sol for IV Infus 5% 1000ml	4	0.18	7.30 ± 0	29.19	0.07	0.37						
	Dextrose Sol for IV Infus 10% 1000ml							1	0.05	10.25 ± 0	10.25	0.02	0.51
	Destrose Sol for IV Infus 50% 500ml	1	0.04	17.68 ± 0	17.68	0.04	0.90						

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Sodium Alginate in a Hydro-active base 50g	2	0.09	21.60 ± 0	43.20	0.10	1.10						
	Lignocaine Gel 2% 20g	3	0.13	14.90 ± 0	44.71	0.10	0.76	5	0.24	14.90 ± 0	74.52	0.18	0.74
	Allopurinol Tabs 300mg 30s	2	0.09	3.31 ± 4.28	6.61	0.01	0.17	1	0.05	12.66 ± 0	12.66	0.03	0.63
	Aspirin Soluble Tabs 300mg 14s	26	1.15	1.11 ± 0.80	28.87	0.07	0.06	27	1.29	1.53 ± 0.46	41.35	0.10	0.08
	Colchicine Tabs 1mg 60s	3	0.13	31.04 ± 32.43	93.13	0.21	1.59	1	0.05	10.72 ± 0	10.72	0.03	0.53
	Diclofenac Inj 25mg/ml 3ml	36	1.59	288.69 ± 308.00	10392.66	**23.51**	**14.76**	51	2.43	113.44 ± 14.55	5785.25	**13.69**	**5.62**
	Diclofenac Tabs 25mg 42s	11	0.49	5.26 ± 2.86	57.89	0.13	0.27	21	1.00	7.53 ± 14.55	158.20	0.37	0.37
	Ibuprofen Susp 100mg/5ml 100ml	6	0.27	3.67 ± 2.78	22.03	0.05	0.19	7	0.33	6.39 ± 0	44.70	0.11	0.32
	Ibuprofen Tabs 200mg 15s	112	4.96	1.38 ± 0.60	154.48	0.35	0.07	170	8.11	1.55 ± 0.87	263.05	0.62	0.08
	Methyl Salicylate In Vaseline Oint 10% 25g	7	0.31	0.64 ± 0	4.51	0.01	0.03	39	1.86	0.64 ± 0	25.12	0.06	0.03
	Paracetamol Codeine Phos Tabs 500mg/8mg 20s	4	0.18	56.29 ± 43.81	225.18	0.51	**2.88**	11	0.53	115.47 ± 0	1270.21	**3.01**	**5.72**
	Paracetamol Syr 120mg/5ml 50ml	48	2.12	1.55 ± 0.78	74.26	0.17	0.08	36	1.72	2.39 ± 1.21	86.02	0.20	0.12
	Paracetamol Syr 120mg/5ml 100ml	14	0.62	2.55 ± 0.61	35.64	0.08	0.13	9	0.43	3.00 ± 0.90	27.00	0.06	0.15
	Paracetamol Tabs 500mg 10s	217	9.60	0.87 ± 0.45	188.15	0.43	0.04	243	11.60	0.87 ± 0.26	212.07	0.50	0.04
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	17	0.75	5.41 ± 0	92.00	0.21	0.28	9	0.43	5.42 ± 0	48.71	0.12	0.27
	Tilidine Oral Drops 100mg/1ml 10ml							3	0.14	3.10 ± 3.56	9.30	0.02	0.15
	Ibuprofen Tabs 200mg 30s	1	0.04	1.86 ± 0	1.86	0.00	0.10						
	Diclofenac Tabs 25mg 28s	14	0.62	1.97 ± 1.43	27.63	0.06	0.10	14	0.67	3.74 ± 1.22	52.36	0.12	0.19
	Codeine Phosphate Tabs 30mg 100s	4	0.18	12.60 ± 6.67	50.40	0.11	0.64						
	Morphine Sulphate IV Inj 15mg 1ml	1	0.04	0.34 ± 0	0.34	0.00	0.02						
	Pethidine IM Inj 50mg/ml 1ml 10s	14	0.62	3.44 ± 3.71	48.20	0.11	0.18	3	0.14	0.83 ± 0.29	2.50	0.01	0.04
	Pethidine IM Inj 100mg/2ml 1ml 10s	13	0.58	16.26 ± 13.90	211.43	0.48	0.83	1	0.05	5.56 ± 0	5.56	0.01	0.28
	Vaccine Immunoglobulin Human Anti-Rabies 150Iu							1	0.05	324.37 ± 0	324.37	0.77	**16.08**
	Vaccine Rabies 2.5Iu/dose Single dose							5	0.24	324.37 ± 0	1621.84	**3.84**	**16.08**

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Vaccine Tetanus Adosrbed 10 dose 10ml	8	0.35	4.24 ± 6.88	33.95	0.08	0.22	19	0.91	1.23 ± 0.40	23.34	0.06	0.06
	Beclomethasone MDI 100mg 200 dose	2	0.09	20.36 ± 28.50	40.71	0.09	1.04	3	0.14	40.51 ± 0	121.52	0.29	2.01
	Budesonide MDI 200mg 300 dose	1	0.04	49.02 ± 0	49.02	0.11	**2.51**						
	Fenoterol UDV 0.5mg/2ml 60s	5	0.22	24.03 ± 29.97	120.17	0.27	1.23	1	0.05	0.94 ± 0	0.94	0.00	0.05
	Ipratropium UDV 0.25mg/2ml 2ml 60s	2	0.09	3.00 ± 0	6.00	0.01	0.15						
	Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s							1	0.05	1.85 ± 0	1.85	0.00	0.09
	Salbutamol MDI Complete 100mg 200 dose	6	0.27	15.79 ± 0	94.73	0.21	0.81	5	0.24	15.79 ± 0	78.95	0.19	0.78
	Salbutamol Syr 2mg/5ml 150ml	14	0.62	4.25 ± 1.51	59.50	0.13	0.22						
	Salbutamol Tabs 2mg 28s							2	0.10	2.62 ± 0.53	5.24	0.01	0.13
	Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	8	0.35	16.14 ± 17.85	129.16	0.29	0.83	3	0.14	1.40 ± 0.08	4.20	0.01	0.07
	Salmeterol Accuhaler 0.05mg 60 Dose							2	0.10	15.79 ± 0	31.58	0.07	0.78
	Theophylline Syr 200ml	18	0.80	4.32 ± 2.08	77.82	0.18	0.22	22	1.05	5.40 ± 0	118.89	0.28	0.27
	Theophylline Syr 25mg/5ml 500ml	1	0.04	3.02 ± 0	3.02	0.01	0.15						
	Theophylline Anhydrous Tabs 200mg 60s	3	0.13	3.88 ± 4.65	11.65	0.03	0.20	3	0.14	9.20 ± 0	27.61	0.07	0.46
	Theophylline Anhydrous Tabs 250mg 56s	1	0.04	6.60 ± 0	6.60	0.01	0.34						
	Mist Expectorant Stim Syr Adult 200ml	1	0.04	2.41 ± 0	2.41	0.01	0.12	9	0.43	2.41 ± 0	21.69	0.05	0.12
	Mist Tussi Infants Mist 100ml	6	0.27	1.77 ± 0.98	10.60	0.02	0.09	8	0.38	1.71 ± 0	13.67	0.03	0.08
	Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	21	0.93	6.06 ± 8.91	127.22	0.29	0.31	2	0.10	6.67 ± 0	13.34	0.03	0.33
	Rifampicin 150mg, Isoniazid 75mg Tabs 60s	7	0.31	21.99 ± 15.46	153.96	0.35	1.12	2	0.10	35.92 ± 12.70	71.84	0.17	1.78

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Male	Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	32	1.42	26.22 ± 23.84	839.06	1.90	1.34	5	0.24	39.44 ± 17.64	197.18	0.47	1.95
	Streptomycin Inj 1g/3ml	2	0.09	21.28 ± 4.30	42.56	0.10	1.09						
	Pseudoephedrine Sulphate Syr 30mg/5ml 50ml							1	0.05	2.82 ± 0	2.82	0.01	0.14
	Pseudoephedrine Tabs 60mg 20s	1	0.04	2.35 ± 0	2.35	0.01	0.12	2	0.10	2.35 ± 0	4.70	0.01	0.12
	Chlorpheniramine Mal Tabs 4mg 30s	8	0.35	1.92 ± 0.38	15.33	0.03	0.10	22	1.05	2.11 ± 0.26	46.49	0.11	0.10
	Promethazine Inj 25mg/ml 2ml							1	0.05	2.00 ± 0	2.00	0.00	0.10
	Promethazine Tabs 25mg 500s							1	0.05	5.32 ± 0	5.32	0.01	0.26
	Chlorpheniramine Mal Syr 2mg/5ml 50ml	2	0.09	1.17 ± 0.41	2.33	0.01	0.06	7	0.33	1.41 ± 0.11	9.90	0.02	0.07
	Total	**2260**	**100**		**44198.87**	**100**		**2095**	**100**		**42265.73**	**100**	**1.00**
Female	Amoxycillin Caps 250mg 15s	11	0.27	1.43 ± 0.60	15.73	0.02	0.07	9	0.27	3.01 ± 4.08	27.09	0.04	0.17
	Amoxycillin Caps 500mg 15s	48	1.19	2.82 ± 1.43	135.58	0.17	0.15	55	1.63	3.51 ± 0.48	193.10	0.32	0.20
	Amoxycillin Susp 125mg/5ml 100ml	17	0.42	2.06 ± 1.04	34.96	0.05	0.11	13	0.38	2.61 ± 0	33.98	0.06	0.15
	Amoxycillin Susp 250mg/5ml 100ml	4	0.10	3.83 ± 0	15.33	0.02	0.20	1	0.03	3.83 ± 0	3.83	0.01	0.21
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	19	0.47	107.05 ± 66.95	2033.86	2.62	**5.56**						
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	4	0.10	12.19 ± 0	48.76	0.06	0.63	7	0.21	10.82 ± 3.62	75.75	0.12	0.60
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	60	1.49	18.25 ± 4.05	1095.05	1.41	0.95	41	1.21	17.25 ± 4.13	707.28	1.17	0.96
	Ampicillin Inj 250mg	43	1.07	10.12 ± 8.22	434.97	0.56	0.53						
	Ampicillin Inj 500mg	90	2.24	129.98 ± 106.11	11698.37	**15.09**	**6.75**						
	Benzathine Penicillin G Inj. 2.4Mu Vials	2	0.05	39.70 ± 39.19	79.39	0.10	**2.06**	4	0.12	11.98 ± 0	47.94	0.08	0.67
	Benzylpenicillin G Inj 1Mu 50s	3	0.07	22.96 ± 18.58	68.88	0.09	1.19						
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	2	0.05	180.16 ± 109.19	360.32	0.46	**9.36**	4	0.12	180.16 ± 89.16	720.63	1.19	**10.04**

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Ciprofloxacin Tabs 500mg 10s	14	0.35	1.19 ± 0.97	16.68	0.02	0.06	31	0.92	1.15 ± 1.31	35.66	0.06	0.06
	Cloxacillin IV Inj 500mg	5	0.12	59.64 ± 30.57	298.20	0.38	**3.10**						
	Co-Trimoxazole for IV Infus 480mg 5ml	6	0.15	3.63 ± 3.28	21.78	0.03	0.19						
	Flucloxacillin Caps 250mg 20s	15	0.37	11.00 ± 6.82	164.93	0.21	0.57	8	0.24	15.60 ± 8.34	124.77	0.21	0.87
	Flucloxacillin Susp 125mg 100ml	1	0.02	9.48 ± 0	9.48	0.01	0.49						
	Flucloxacillin Susp 125mg 100ml	2	0.05	70.68 ± 33.37	141.35	0.18	**3.67**						
	Fluconazole Caps 200mg 28s	9	0.22	11.39 ± 7.42	102.54	0.13	0.59	1	0.03	86.75 ± 0	86.75	0.14	**4.84**
	Fluconazole Inj for IV Infus 2mg/ml 100ml	4	0.10	77.70 ± 48.58	310.81	0.40	**4.04**						
	Gentamicin Inj 40mg/ml 1ml	45	1.12	3.13 ± 2.81	140.79	0.18	0.16	2	0.06	4.73 ± 5.20	9.45	0.02	0.26
	Gentamicin Inj 80mg/2ml 2ml	77	1.91	17.12 ± 10.48	1317.94	1.70	0.89	2	0.06	2.13 ± 0	4.26	0.01	0.12
	Ketoconazole Tabs 200mg 30s	19	0.47	37.46 ± 36.06	711.79	0.92	1.95	10	0.30	59.66 ± 29.93	596.63	0.98	**3.33**
	Nitrofurantoin Caps 100mg 50s	3	0.07	19.80 ± 12.46	59.40	0.08	1.03	1	0.03	16.50 ± 0	16.50	0.03	0.92
	Phenoxymethyl Penicillin Susp 250mg/5ml 100ml							1	0.03	3.17 ± 0	3.17	0.01	0.18
	Phenoxymethyl Penicillin Tabs 250mg 20s	2	0.05	3.61 ± 2.19	7.22	0.01	0.19	5	0.15	5.16 ± 6.16	25.80	0.04	0.29
	Nitrofurantoin Caps 100mg 30s	1	0.02	3.27 ± 0	3.27	0.00	0.17	3	0.09	33.00 ± 14.29	99.00	0.16	1.84
	Fluconazole Susp 50mg/5ml 35ml	1	0.02	0.00 ± 0	0.00	0.00	0.00						
	Cefazolin Inj 500mg	5	0.12	528.85 ± 462.74	2644.24	**3.41**	**27.47**						
	Cefotaxime Inj 1g/15ml	2	0.05	13.62 ± 1.01	27.23	0.04	0.71						
	Ceftriaxone IM Inj 250mg	16	0.40	286.65 ± 300.73	4586.40	**5.92**	**14.89**	2	0.06	84.00 ± 0	168.00	0.28	**4.68**
	Ceftriaxone Inj 1g	32	0.79	34.33 ± 34.32	1098.53	1.42	1.78	7	0.21	10.56 ± 3.49	73.94	0.12	0.59
	Co-trimoxazole Tabs 480mg 20s	83	2.06	1.72 ± 1.75	143.06	0.18	0.09	21	0.62	2.52 ± 0.66	52.84	0.09	0.14
	Co-trimoxazole Tabs 400mg 1000s							1	0.03	0.03 ± 0	0.03	0.00	0.00
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	45	1.12	5.04 ± 1.92	226.92	0.29	0.26	123	3.63	4.70 ± 0.93	577.62	0.95	0.26
	Co-trimoxazole Susp 200/40mg/5ml 50ml	52	1.29	1.87 ± 3.13	97.48	0.13	0.10	8	0.24	2.09 ± 1.51	16.71	0.03	0.12
	Co-trimoxazole Syr 200/40mg/5ml 100ml	2	0.05	2.75 ± 1.29	5.49	0.01	0.14	1	0.03	1.83 ± 0	1.83	0.00	0.10
	Doxycycline Caps 100mg 14s	15	0.37	1.23 ± 0.48	18.43	0.02	0.06	56	1.65	29.41 ± 207.44	1647.03	2.71	1.64

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Erythromycin Susp 125mg/5ml 100ml	2	0.05	5.19 ± 3.14	10.37	0.01	0.27						
	Erythromycin IV Inj 1g	1	0.02	484.73 ± 0	484.73	0.63	**25.18**						
	Erythromycin Tabs 250mg 20s	13	0.32	9.95 ± 5.30	129.36	0.17	0.52	14	0.41	18.60 ± 6.73	260.41	0.43	1.04
	Erythromycin Tabs 250mg 100s							1	0.03	33.60 ± 0	33.60	0.06	1.87
	Erythromycin Tabs 250mg 56s							1	0.03	4.53 ± 0	4.53	0.01	0.25
	Metronidazole IV Inj 500mg/ml 100ml	79	1.96	0.28 ± 0.20	22.21	0.03	0.01	7	0.21	27.85 ± 20.07	194.97	0.32	1.55
	Metronidazole Tabs 200mg 21s	81	2.01	1.41 ± 0.02	113.91	0.15	0.07	70	2.07	1.57 ± 0.85	109.76	0.18	0.09
	Metronidazole Tabs 200mg 60s							1	0.03	40.11 ± 0	40.11	0.07	**2.24**
	Metronidazole Susp 200mg/5ml 50ml							4	0.12	6.62 ± 0	26.49	0.04	0.37
	Spectinomycin Inj 400mg/ml 2g 5ml	1	0.02	27.63 ± 0	27.63	0.04	1.44						
	Metronidazole Tabs 200mg 10s							1	0.03	0.53 ± 0	0.53	0.00	0.03
	Acyclovir Cream 5% 2g	1	0.02	3.09 ± 0	3.09	0.00	0.16	4	0.12	3.09 ± 0	12.35	0.02	0.17
	Efavirenz Caps 50mg 30s							3	0.09	659.58 ± 142.80	1978.75	**3.26**	**36.77**
	Efavirenz Caps 200mg 90s	3	0.07	112.95 ± 88.40	338.86	0.44	**5.87**	6	0.18	91.01 ± 55.91	546.08	0.90	**5.07**
	Efavirenz Caps 600mg 30s	7	0.17	154.27 ± 116.99	1079.90	1.39	**8.01**	55	1.63	263.11 ± 64.96	14471.26	**23.84**	**14.67**
	Lamivudine Oral Sol 10mg/ml 240ml	6	0.15	21.30 ± 8.66	127.80	0.16	1.11	1	0.03	49.67 ± 0	49.47	0.08	**2.76**
	Lamivudine Tabs 150mg 60s	52	1.29	26.86 ± 18.72	1396.51	1.80	1.39	112	3.31	41.65 ± 7.59	4664.75	**7.68**	**2.32**
	Lopinavir Syr 60ml	6	0.15	318.91 ± 192.48	1913.46	2.47	**16.56**						
	Nevirapine Tabs 200mg 60s	34	0.84	27.81 ± 17.02	945.53	1.22	1.44	53	1.57	38.03 ± 14.89	2015.53	**3.32**	**2.12**
	Stavudine Caps 15mg 60s	2	0.05	19.25 ± 0	38.50	0.05	1.00						
	Stavudine Caps 20mg 60s	4	0.10	14.50 ± 8.23	58.00	0.07	0.75	1	0.03	18.61 ± 0	18.61	0.03	1.04
	Stavudine D4t Caps 30mg 60s	26	0.65	13.10 ± 7.96	340.57	0.44	0.68	47	1.39	18.46 ± 3.04	867.75	1.43	1.03
	Stavudine D4t Caps 40mg 60s	13	0.32	19.78 ± 5.10	257.12	0.33	1.03	69	2.04	21.66 ± 3.87	1494.52	2.46	1.21
	Zidovudine Caps 300mg 60s	10	0.25	21.31 ± 28.70	213.09	0.27	1.11	1	0.03	7.54 ± 0	7.54	0.01	0.42
	Amphotericin B Lozenges 10mg 20s	1	0.02	1.86 ± 0	1.86	0.00	0.10						
	Nystatin Oral Susp 100 000Iu 20ml	12	0.30	5.04 ± 6.18	60.47	0.08	0.26	2	0.06	3.99 ± 0	7.98	0.01	0.22
	Methotrexate Tabs 2.5mg 100s							12	0.35	9.07 ± 4.44	108.80	0.18	0.51

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Glyceryl Trinitrate SL Tabs 0.5mg 50s	7	0.17	1.59 ± 1.42	11.16	0.01	0.08	7	0.21	5.28 ± 3.41	36.93	0.06	0.29
	Amlodipine Besylate Tabs 5mg 30s	12	0.30	5.19 ± 5.48	62.34	0.08	0.27						
	Atenolol Tabs 50mg 28s	30	0.75	0.91 ± 0.87	27.41	0.04	0.05	18	0.53	2.01 ± 0.24	36.26	0.06	0.11
	Atenolol Tabs 100mg 28s							1	0.03	3.12 ± 0	3.12	0.01	0.17
	Enalapril Tabs 5mg 28s	16	0.40	143.64 ± 157.22	2298.21	2.96	**7.46**	3	0.09	459.00 ± 0	1377.00	2.27	**25.59**
	Enalapril Tabs 10mg 28s	17	0.42	1.77 ± 1.14	30.14	0.04	0.09	33	0.98	2.62 ± 0.82	86.58	0.14	0.15
	Enalapril Tabs 20mg 28s	6	0.15	2.53 ± 1.66	15.19	0.02	0.13	10	0.30	3.60 ± 0	36.04	0.06	0.20
	Furosemide Tabs 40mg 28s	26	0.65	27.61 ± 32.11	717.77	0.93	1.43	26	0.77	38.75 ± 24.52	1007.49	1.66	**2.16**
	Furosemide Tabs 40mg 56s	3	0.07	2.89 ± 0	8.66	0.01	0.15	2	0.06	30.22 ± 34.57	60.44	0.10	1.68
	Furosemide Tabs 40mg 84s	1	0.02	4.08 ± 0	4.08	0.01	0.21						
	Furosemide Tabs 40mg 250s							1	0.03	3.60 ± 0	3.60	0.01	0.20
	Furosemide Inj 10mg/ml 2ml	29	0.72	7.10 ± 7.73	205.88	0.27	0.37						
	Furosemide Inj 10mg/ml 25ml	1	0.02	10.61 ± 0	10.61	0.01	0.55						
	Hydrochlorothiazide Tabs 25mg 14s	16	0.40	7.62 ± 2.99	121.84	0.16	0.40	6	0.18	8.47 ± 1.89	50.84	0.08	0.47
	Hydrochlorothiazide Tabs 25mg 28s	45	1.12	0.48 ± 0.42	21.41	0.03	0.02	79	2.33	1.01 ± 0.68	79.47	0.13	0.06
	Indapamide Tabs 2.5mg 30s	18	0.45	1.05 ± 1.57	18.83	0.02	0.05	10	0.30	4.41 ± 1.03	44.10	0.07	0.25
	Methyldopa Tabs 250mg 56s	1	0.02	0.72 ± 0	0.72	0.00	0.04	1	0.03	20.40 ± 0	20.40	0.03	1.14
	Nifedipine Caps 5mg 100s	10	0.25	0.49 ± 0.38	4.89	0.01	0.03	1	0.03	0.16 ± 0	0.16	0.00	0.01
	Nifedipine Tabs SR 30mg 28s	17	0.42	16.76 ± 8.66	284.96	0.37	0.87	23	0.68	22.11 ± 0	508.62	0.84	1.23
	Nifedipine Tabs SR 60mg 28s	14	0.35	42.04 ± 36.60	588.58	0.76	**2.18**	29	0.86	59.91 ± 0	1737.45	2.86	**3.34**
	Perindopril Tabs 4mg 28s	66	1.64	5.95 ± 5.79	392.85	0.51	0.31	48	1.42	12.51 ± 3.22	600.29	0.99	0.70
	Prazosin Tabs 1mg 14s							5	0.15	18.93 ± 0	94.64	0.16	1.06
	Prazosin Tabs 5mg 30s							3	0.09	165.17 ± 0	495.50	0.82	**9.21**
	Propranolol Tabs 10mg 60s	3	0.07	0.37 ± 0.28	1.10	0.00	0.02	2	0.06	0.83 ± 0.70	1.65	0.00	0.05
	Spironolactone Tabs 25mg 240s	15	0.37	5.00 ± 6.71	75.03	0.10	0.26	6	0.18	60.47 ± 25.21	362.81	0.60	**3.37**
	Spironolactone Tabs 25mg 14s	13	0.32	4.70 ± 6.84	61.14	0.08	0.24						
	Digoxin Tabs 0.25mg 14s	10	0.25	3.28 ± 2.68	32.84	0.04	0.17	12	0.35	3.93 ± 1.31	47.18	0.08	0.22
	Digoxin Tabs 0.25mg 28s	1	0.02	4.07 ± 0	4.07	0.01	0.21						
	Balanced Heparin 1250Iu/ml 5ml 5s	1	0.02	2764.80 ± 0	2764.80	**3.57**	**143.60**						
	Heparin IV Inj 1 000Iu/ml 5ml	2	0.05	10.33 ± 11.36	20.66	0.03	0.54						

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	HeparinIV Inj 5 000Iu/ml 5ml	5	0.12	6.95 ± 7.10	34.75	0.04	0.36						
	Tranexamic Acid Inj 100mg/ml 5ml 5s	12	0.30	105.30 ± 86.59	1263.55	1.63	**5.47**	3	0.09	38.29 ± 0	114.87	0.19	**2.13**
	Tranexamic Acid Tabs 500mg 60s	4	0.10	20.04 ± 16.02	80.15	0.10	1.04	6	0.18	70.24 ± 70.24	422.67	0.70	**3.93**
	Warfarin Sodium Tabs 5mg 28s	12	0.30	11.12 ± 6.57	133.42	0.17	0.58	4	0.12	15.57 ± 0	62.26	0.10	0.87
	Warfarin Sodium Tabs 5mg 42s							7	0.21	23.90 ± 1.47	167.33	0.28	1.33
	Warfarin Sodium Tabs 5mg 49s							1	0.03	27.24 ± 0	27.24	0.04	1.52
	Warfarin Sodium Tabs 5mg 14s	1	0.02	7.78 ± 0	7.78	0.01	0.40	2	0.06	7.78 ± 0	15.57	0.03	0.43
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	111	2.76	0.85 ± 0.79	94.57	0.12	0.04	23	0.68	1.61 ± 0.58	37.02	0.06	0.09
	Ferrous Sulphate Co Tabs eq 65mg Fe 84s	17	0.42	4.17 ± 0	70.89	0.09	0.22	9	0.27	4.17 ± 0	37.53	0.06	0.23
	Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	14	0.35	7.08 ± 6.63	99.12	0.13	0.37						
	Folic Acid Tabs 5mg 28s	158	3.92	0.47 ± 0.40	73.63	0.09	0.02	27	0.80	0.98 ± 0.10	26.42	0.04	0.05
	Folic Acid Tabs 5mg 1000s							1	0.03	247.34 ± 0	247.34	0.41	**13.79**
	Phytomenadione IM Inj 10mg/ml 1ml	2	0.05	35.08 ± 33.07	70.15	0.09	1.82	1	0.03	11.69 ± 0	11.69	0.02	0.65
	Cholestyramine Powder 4g 50s	1	0.02	15.15 ± 0	15.15	0.02	0.79						
	Simvastatin Tabs 20mg 28s	3	0.07	3.89 ± 4.99	11.66	0.02	0.20						
	Clotrimazole Cream 1% 20g	4	0.10	2.55 ± 0	10.20	0.01	0.13	8	0.24	2.87 ± 0.90	22.95	0.04	0.16
	Miconazole Nitrate Oral Gel 2% 30g	6	0.15	44.24 ± 1.55	265.42	0.34	**2.30**	1	0.03	45.24 ± 0	45.24	0.07	**2.52**
	Mupirocin Topical Oint 2% 15g							2	0.06	16.53 ± 0	33.06	0.05	0.92
	Nystatin Vaginal Tabs 15s							2	0.06	24.61 ± 30.86	49.22	0.08	1.37
	Selenium Sulphide Shampoo 2.5% 50ml							1	0.03	19.30 ± 0	19.30	0.03	1.08
	Cetrimide Chlorhexidine Gluconate Conc Sol 100ml							1	0.03	5.31 ± 0	5.31	0.01	0.30
	Podophyllum Resin Oint 10g							4	0.12	31.58 ± 12.15	126.32	0.21	1.76
	Calamine Lotion 100ml	1	0.02	1.22 ± 0	1.22	0.00	0.06	2	0.06	1.22 ± 0	2.44	0.00	0.07
	Hydrocortisone Cream 1% 20g							8	0.24	3.45 ± 0	27.58	0.05	0.19
	Indomethacin Caps 25mg 28s	11	0.27	1.08 ± 0.73	11.86	0.02	0.06	25	0.74	1.42 ± 0.59	35.50	0.06	0.08

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Indomethacin Supps 100mg 10s	2	0.05	2.28 ± 1.61	4.56	0.01	0.12	3	0.09	23.18 ± 19.09	69.54	0.11	1.29
	Sulfasalazine Tabs 500mg 100s							1	0.03	25.46 ± 0	25.46	0.04	1.42
	Benzyl Benzoate Emuls 100ml	1	0.02	1.27 ± 0	1.27	0.00	0.07	6	0.18	1.43 ± 0.89	8.56	0.01	0.08
	Monosulfiram Soap 5% 75g							2	0.06	6.46 ± 0.69	12.91	0.02	0.36
	Aqueous Cream 100g	3	0.07	1.02 ± 0	3.05	0.00	0.05	4	0.12	1.78 ± 0.97	7.11	0.01	0.10
	Aqueous Cream 500g	1	0.02	3.12 ± 0	3.12	0.00	0.16						
	Lubricating Jelly Sachet 2.5ml	1	0.02	0.18 ± 0	0.18	0.00	0.01						
	Zinc & Castor Oil Oint 25g	3	0.07	0.83 ± 0	2.50	0.00	0.04	1	0.03	0.83 ± 0	0.83	0.00	0.05
	Zinc Sulphate Grade 500g							1	0.03	249.00 ± 0	249.00	0.41	**13.88**
	Acyclovir Tabs 200mg 25s	4	0.10	7.07 ± 7.06	28.29	0.04	0.37	3	0.09	9.57 ± 4.15	28.72	0.05	0.53
	Chloramphenicol Eye Drops 0.5% 10ml							2	0.06	29.82 ± 0	59.63	0.10	1.66
	Chloramphenicol Eye Oint 1% 3.5g							1	0.03	1.68 ± 0	1.68	0.00	0.09
	Antazoline Tetrahydrozoline Eye Drops 10ml	1	0.02	4.73 ± 0	4.73	0.01	0.25	9	0.27	4.73 ± 0	42.55	0.07	0.26
	Acetic Acid Ear Drops 1% in normal saline 10ml							7	0.21	2.75 ± 0	19.25	0.03	0.15
	Acetic Acid Ear Drops 2% in alcohol							1	0.03	1.90 ± 0	1.90	0.00	0.11
	Neomycin Polymixin Hydrocortisone Ear Drops 10ml							1	0.03	32.63 ± 0	32.63	0.05	1.82
	Sodium Bicarbonate Powder 500g	7	0.17	0.68 ± 0.27	4.76	0.01	0.04						
	Sodium Chloride Nose Drops 0.9% 10ml							8	0.24	2.75 ± 0	22.00	0.04	0.15
	Arachis Oil, Paradichlorbenzene chlorbut 10ml	1	0.02	17.00 ± 0	17.00	0.02	0.88	1	0.03	17.00 ± 0	17.00	0.03	0.95
	Betamethasone Valerate Cream 0.1% 15g	2	0.05	2.85 ± 1.34	5.70	0.01	0.15	7	0.21	2.17 ± 0.72	15.20	0.03	0.12
	Condoms 10s	1	0.02	0 ± 0	0.00	0.00	0.00						
	Medroxyprogesterone Tabs 5mg 30s	1	0.02	113.92 ± 0	113.92	0.15	**5.92**	2	0.06	56.96 ± 0	113.92	0.19	**3.18**
	Norethisterone Inj 200mg/ml LA 1ml	2	0.05	22.27 ± 3.52	44.54	0.06	1.16	1	0.03	19.37 ± 0	19.37	0.03	1.08

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Oestrogens Conj Tabs 0.3mg 28s	1	0.02	14.66 ± 0	14.66	0.02	0.76						
	Oestrogens Conj Tabs 0.625mg 28s	1	0.02	12.40 ± 0	12.40	0.02	0.64	9	0.27	12.40 ± 0	111.61	0.18	0.69
	Oestrogens Conj Vaginal Cream 42.5g							1	0.03	53.00 ± 0	53.00	0.09	**2.95**
	Insulin Actraphane Hm 100Iu/ml 10ml	14	0.35	46.45 ± 33.29	650.35	0.84	**2.41**	2	0.06	73.39 ± 0	146.77	0.24	**4.09**
	Insulin Actraphane Hm 100Iu/ml 3ml Penset	6	0.15	58.53 ± 24.15	351.17	0.45	**3.04**						
	Insulin Actrapid Hm 100Iu/ml 10ml	9	0.22	0.46 ± 0.45	4.15	0.01	0.02	2	0.06	0.37 ± 0	0.73	0.00	0.02
	Insulin Protaphane Hm 100Iu/ml 3ml Penset							2	0.06	41.31 ± 0	82.63	0.14	**2.30**
	Insulin Needles 1s	12	0.30	5.34 ± 5.13	64.08	0.08	0.28	1	0.03	3.86 ± 0	3.86	0.01	0.22
	Gliclazide Tabs 80mg 56s	10	0.25	7.91 ± 2.94	79.09	0.10	0.41	10	0.30	7.91 ± 2.94	79.09	0.13	0.44
	Gliclazide Tabs 80mg 28s	16	0.40	1.26 ± 1.28	20.11	0.03	0.07	7	0.21	3.28 ± 0	22.93	0.04	0.18
	Metformin Tabs 850mg 56s	33	0.82	3.26 ± 3.40	107.51	0.14	0.17	15	0.44	5.51 ± 2.37	82.61	0.14	0.31
	Metformin Tabs 850mg 84s	9	0.22	11.00 ± 0	99.00	0.13	0.57	20	0.59	10.63 ± 1.65	212.63	0.35	0.59
	Glucagon Inj 1mg 1ml	3	0.07	1097.74 ± 914.63	3293.22	**4.25**	**57.02**						
	Oxytocin 5Iu/ml 5s	1	0.02	9.97 ± 0	9.97	0.01	0.52						
	Oxytocin Inj 10Iu 1ml 5s	4	0.10	9.96 ± 2.85	39.85	0.05	0.52						
	Thyroxine Sodium Tabs 50µg 100s	1	0.02	0.37 ± 0	0.37	0.00	0.02						
	Thyroxine Sodium Tabs 100µg 28s	9	0.22	5.76 ± 2.62	51.87	0.07	0.30						
	Betamethasone Tabs 0.5mg 100s	2	0.05	53.24 ± 63.70	106.47	0.14	**2.76**						
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	18	0.45	97.06 ± 74.19	1747.11	2.25	**5.04**	3	0.09	23.77 ± 10.29	71.31	0.12	1.33
	Methylprednisolone Inj 40mg/ml 1ml							3	0.09	14.83 ± 0	44.49	0.07	0.83
	Prednisolone Syr 15mg/5ml 50ml	4	0.10	7.51 ± 8.89	30.05	0.04	0.39	2	0.06	19.83 ± 0	39.67	0.07	1.11
	Prednisone Tabs 5mg 28s	75	1.86	2.29 ± 2.55	171.59	0.22	0.12	82	2.42	2.50 ± 2.43	205.18	0.34	0.14
	Prednisone Tabs 5mg 100s	1	0.02	53.25 ± 0	53.25	0.07	**2.77**						
	Betamethasone Inj 4mg/ml 1ml							1	0.03	2.62 ± 0	2.62	0.00	0.15
	Carbamazepine CR Tabs 200mg 30s	18	0.45	13.47 ± 16.38	242.45	0.31	0.70	33	0.98	13.34 ± 9.95	440.21	0.73	0.74

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Carbamazepine CR Tabs 400mg 30s	6	0.15	29.84 ± 14.62	179.03	0.23	1.55	29	0.86	31.48 ± 12.11	913.05	1.50	1.76
	Clonazepam Inj 1mg/ml 1ml	1	0.02	6.09 ± 0	6.09	0.01	0.32						
	Lamotrigine Tabs 25mg 60s	1	0.02	0.50 ± 0	0.50	0.00	0.03	2	0.06	30.00 ± 0	60.00	0.10	1.67
	Lorazepam Inj 4mg/ml 1ml	8	0.20	30.35 ± 9.54	242.80	0.31	1.58						
	Lorazepam Tabs 1mg 100s	1	0.02	2.18 ± 0	2.18	0.00	0.11	2	0.06	3.60 ± 3.55	7.20	0.01	0.20
	Phenobarbitone Tabs 30mg 28s	5	0.12	0.32 ± 0.42	1.58	0.00	0.02	4	0.12	2.57 ± 1.03	10.27	0.02	0.14
	Phenobarbitone Tabs 30mg 56s	1	0.02	1.65 ± 0	1.65	0.00	0.09	9	0.27	2.56 ± 0.87	23.06	0.04	0.14
	Phenobarbitone Vit Nicot Syrup 100ml							1	0.03	20.49 ± 0	20.49	0.03	1.14
	Phenytoin Caps 100mg 84s	11	0.27	20.14 ± 12.25	221.59	0.29	1.05	4	0.12	26.03 ± 0.3	104.12	0.17	1.45
	Phenytoin Inj 50mg/ml 5ml	3	0.07	85.20 ± 59.18	255.59	0.33	**4.43**						
	Sodium Valproate Liquid Sugar Free 200mg 300ml	3	0.07	85.35 ± 0	256.05	0.33	**4.43**						
	Sodium Valproate Tabs 200mg 28s							1	0.03	19.59 ± 0	19.59	0.03	1.09
	Sodium Valproate Tabs Cr 300mg 84s							1	0.03	84.18 ± 0	84.18	0.14	**4.69**
	Valproic Acid Caps 150mg 56s							2	0.06	39.16 ± 0	78.32	0.13	**2.18**
	Lamotrigine Tabs 25mg 28s							2	0.06	14.00 ± 0	28.00	0.05	0.78
	Bromocriptine Mesylate Tabs 2.5mg 30s	3	0.07	9.18 ± 2.28	27.53	0.04	0.48	2	0.06	69.00 ± 0	138.00	0.23	**3.85**
	Biperidin Inj 5mg/ml 5ml	1	0.02	12.80 ± 0	12.80	0.02	0.66						
	Carbidopa 25mg & Levodopa 250mg 100s	3	0.07	39.89 ± 50.81	119.68	0.15	**2.07**						
	Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	1	0.02	0.94 ± 0	0.94	0.00	0.05						
	Fluphenazine Decanoate Inj 25mg/ml 1ml							1	0.03	8.82 ± 0	8.82	0.01	0.49
	Chlorpromazine Tabs 50mg 500s	1	0.02	1.36 ± 1.51	4.09	0.01	0.21	4	0.12	3.10 ± 0	12.39	0.02	0.17
	Haloperidol Inj 5mg/ml 1ml	4	0.10	54.18 ± 21.67	216.73	0.28	**2.81**						
	Haloperidol Tabs 5mg 14s	32	0.79	0.46 ± 0.66	14.57	0.02	0.02	1	0.03	2.04 ± 0	2.04	0.00	0.11
	Haloperidol Tabs 5mg 56s	5	0.12	2.55 ± 0	12.75	0.02	0.13	1	0.03	2.55 ± 0	2.55	0.00	0.14
	Chlorpromazine Tabs 25mg 28s							13	0.38	2.07 ± 0.99	26.87	0.04	0.12

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Amitriptyline Tabs 25mg 28s	58	1.44	14.22 ± 11.99	824.67	1.06	0.74	59	1.74	20.18 ± 5.25	1190.70	1.96	1.13
	Fluoxetine Caps 20mg 28s	17	0.42	2.00 ± 0.97	34.02	0.04	0.10	18	0.53	2.52 ± 0	45.36	0.07	0.14
	Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	1	0.02	1.50 ± 0	1.50	0.00	0.08						
	Imipramine Tabs 25mg 28s							1	0.03	25.80 ± 0	25.80	0.04	1.44
	Hydroxyzine Tabs 25mg 100s	1	0.02	0.62 ± 0	0.62	0.00	0.03						
	Diazepam Inj 5mg/ml 2ml	6	0.15	1.71 ± 0.04	10.27	0.01	0.09	1	0.03	1.05 ± 0	1.05	0.00	0.06
	Diazepam Tabs 5mg 500s	2	0.05	0.10 ± 0.09	0.19	0.00	0.00						
	Diazepam Tabs 5mg 10s	9	0.22	0.08 ± 0.05	0.70	0.00	0.00	4	0.12	0.25 ± 0.08	1.01	0.00	0.01
	Orphenadrine Tabs 50mg 28s	13	0.32	2.27 ± 2.20	29.56	0.04	0.12	8	0.24	4.93 ± 0	39.40	0.06	0.27
	Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	1	0.02	19.80 ± 0	19.80	0.03	1.03	1	0.03	19.80 ± 0	19.80	0.03	1.10
	Albendazole Susp 100mg/5ml 20ml	3	0.07	14.10 ± 18.41	42.31	0.05	0.73						
	Albendazole Tabs 200mg 2s	7	0.17	5.84 ± 0	40.87	0.05	0.30	6	0.18	5.84 ± 0	35.03	0.06	0.33
	Aluminium Hydroxide Susp 350ml	32	0.79	17.54 ± 11.45	561.12	0.72	0.91	25	0.74	26.33 ± 5.01	658.28	1.08	1.47
	Cimetidine IV Inj 100mg/ml 2ml	15	0.37	8.84 ± 7.47	132.66	0.17	0.46	1	0.03	0.99 ± 0	0.99	0.00	0.06
	Cimetidine Tabs 200mg 30s	4	0.10	0.88 ± 0.69	3.50	0.00	0.05	6	0.18	1.56 ± 0.71	9.36	0.02	0.09
	Cimetidine Tabs 400mg 60s	13	0.32	3.50 ± 3.96	45.45	0.06	0.18	2	0.06	3.53 ± 0	7.05	0.01	0.20
	Magnesium Trisillicate Co Mixt 200ml	1	0.02	0.11 ± 0	0.11	0.00	0.01						
	Misoprostol Tabs 0.2mg 60s	3	0.07	10.78 ± 6.26	32.35	0.04	0.56	15	0.44	12.95 ± 1.03	194.29	0.32	0.72
	Ranitidine Inj 25mg/ml 2ml							1	0.03	12.00 ± 0	12.00	0.02	0.67
	Omeprazole Caps 20mg 30s	5	0.12	22.38 ± 17.06	111.93	0.14	1.16	1	0.03	1.44 ± 0	1.44	0.00	0.08
	Metoclopramide Inj 5mg/ml 2ml	47	1.17	6.62 ± 8.08	311.09	0.40	0.34	5	0.15	2.13 ± 0	10.65	0.02	0.12
	Metoclopramide Syr 5mg/5ml 50ml	1	0.02	2.41 ± 0	2.41	0.00	0.13	2	0.06	2.41 ± 0	4.82	0.01	0.13
	Metoclopramide Tabs 10mg 15s	10	0.25	0.47 ± 0	4.72	0.01	0.02	14	0.41	0.47 ± 0	6.61	0.01	0.03
	Prochlorperazine Inj 12.5mg/ml 1ml	3	0.07	3.84 ± 0	11.53	0.01	0.20						
	Metoclopramide Tabs 10mg 10s	16	0.40	1.60 ± 2.00	25.57	0.03	0.08	13	0.38	1.80 ± 0.66	23.36	0.04	0.10
	Bismuth Sub Oxi Res Nic Ainc Supps 10s	3	0.07	5.63 ± 3.72	16.88	0.02	0.29	4	0.12	14.07 ± 0	56.28	0.09	0.78
	Bisacodyl Supps 10mg 10s	1	0.02	15.16 ± 0	15.16	0.02	0.79						
	Lactulose Syr 3.35mg/5ml 150ml	8	0.20	8.95 ± 9.98	71.61	0.09	0.46	1	0.03	9.74 ± 0	9.74	0.02	0.54

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Magnesium Sulphate Crystals 500g							1	0.03	11.30 ± 0	11.30	0.02	0.63
	Senna Tabs 7.5mg 12s	2	0.05	2.65 ± 0	5.30	0.01	0.14	1	0.03	2.65 ± 0	2.65	0.00	0.15
	Sodium Phosphate Enema Sol 135ml	1	0.02	4.26 ± 0	4.26	0.01	0.22						
	Half Darrows & Glucose 5% Sol 200ml	5	0.12	8.72 ± 3.99	43.58	0.06	0.45	1	0.03	10.50 ± 0	10.50	0.02	0.59
	Half Darrows & Glucose 5% Sol 500ml	2	0.05	21.05 ± 0	42.10	0.05	1.09						
	Loperamide Tabs 2mg 6s	13	0.32	0.46 ± 0.28	5.92	0.01	0.02	11	0.33	1.16 ± 0.43	12.72	0.02	0.06
	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	12	0.30	2.33 ± 1.61	27.93	0.04	0.12	4	0.12	1.12 ± 0	4.47	0.01	0.06
	Hyoscine-N-Butylbromide Syr 100ml	1	0.02	19.99 ± 0	19.99	0.03	1.04	1	0.03	19.99 ± 0	19.99	0.03	1.11
	Hyoscine-N-Butylbromide Tabs 10mg 10s	10	0.25	2.32 ± 1.40	23.15	0.03	0.12	6	0.18	3.03 ± 0.93	18.18	0.03	0.17
	Hyoscine-N-Butylbromide Tabs 10mg 15s							2	0.06	3.41 ± 0	6.82	0.01	0.19
	Liquid Paraffin 200ml	5	0.12	2.79 ± 1.61	13.95	0.02	0.14	3	0.09	5.90 ± 2.56	17.71	0.03	0.33
	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	17	0.42	0.60 ± 0.19	10.26	0.01	0.03	12	0.35	0.76 ± 0.51	9.12	0.02	0.04
	Thymol Glycerine B.P. Mouth wash 100ml	1	0.02	1.18 ± 0	1.18	0.00	0.06	19	0.56	1.18 ± 0	22.50	0.04	0.07
	Calcium Folinate Tabs 15mg							1	0.03	1.90 ± 0	1.90	0.00	0.11
	Ringers Lactate Sol 1000ml	28	0.70	16.56 ± 12.24	463.64	0.60	0.86						
	Sodium Chloride 0.9% for Irrigation 1000ml							1	0.03	0.19 ± 0	0.19	0.00	0.01
	Sodium Chloride 0.9% Inj 1000ml	10	0.25	8.61 ± 0	86.06	0.11	0.45	2	0.06	8.61 ± 0	17.21	0.03	0.48
	Sodium Chloride 0.9% Inj 50ml	1	0.02	1.15 ± 0	1.15	0.00	0.06						
	Sodium Chloride 0.9% Inj 200ml	2	0.05	34.62 ± 0	69.24	0.09	1.80						
	Water for Inj 10ml	1	0.02	1.11 ± 0	1.11	0.00	0.06						
	Calciferol Tabs 50 000Iu 100s							1	0.03	2.41 ± 0	2.41	0.00	0.13

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Calcitriol Caps 0.25mg 30s	6	0.15	0.68 ± 0.05	4.08	0.01	0.04						
	Calsium Carbonate & Glycine Tabs 420mg 300's	4	0.10	0.82 ± 0.33	3.29	0.00	0.04						
	Calcium Gluconate Tabs 300mg 28s	2	0.05	0.51 ± 0	1.03	0.00	0.03	7	0.21	0.81 ± 0.50	5.64	0.01	0.04
	Potassium Chloride Syr 300mg/5ml 100ml	21	0.52	0.93 ± 0.84	19.43	0.03	0.05						
	Potassium Chloride Inj 15% 10ml							1	0.03	14.38 ± 0	14.38	0.02	0.80
	Potassium Chloride Slow Tabs 600mg 14s	32	0.79	1.46 ± 1.63	46.74	0.06	0.08	19	0.56	3.06 ± 0.99	58.21	0.10	0.17
	Potassium Citrate Mixture 100ml	12	0.30	1.85 ± 0.76	22.17	0.03	0.10	10	0.30	2.82 ± 0.99	28.22	0.05	0.16
	Thiamine IV Inj Vit B1 100mg/ml 10ml	3	0.07	2.97 ± 1.94	8.90	0.01	0.15						
	Thiamine Tabs 100mg 28s	7	0.17	1.81 ± 1.72	12.67	0.02	0.09						
	Vitamin A Caps 100 000Iu 250s	14	0.35	0.32 ± 0.19	4.46	0.01	0.02	1	0.03	0.28 ± 0	0.28	0.00	0.02
	Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	9	0.22	7.91 ± 0	71.21	0.09	0.41	58	1.71	9.67 ± 10.49	560.96	0.92	0.54
	Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	2	0.05	3.08 ± 2.90	6.16	0.01	0.16	1	0.03	7.91 ± 0	7.91	0.01	0.44
	Vitamin B Co Inj 10ml (IM)	5	0.12	2.31 ± 1.53	11.55	0.01	0.12	1	0.03	1.20 ± 0	1.20	0.00	0.07
	Vitamin B Co Strong Tabs 28s	108	2.68	0.45 ± 0.45	48.84	0.06	0.02	49	1.45	0.84 ± 0.32	40.99	0.07	0.05
	Vitamin B Co Strong Tabs 1000s	1	0.02	0.21 ± 0	0.21	0.00	0.01						
	Vitamin B Co Syr 100ml	5	0.12	0.31 ± 0.44	1.55	0.00	0.02						
	Vitamin B6 Tabs 25mg 28s	66	1.64	1.25 ± 1.20	82.34	0.11	0.06	47	1.39	1.99 ± 0	93.58	0.15	0.11
	Vitamin C Tabs 100mg 28s	8	0.20	0.31 ± 0.35	2.45	0.00	0.02	12	0.35	0.90 ± 0.33	10.85	0.02	0.05
	Vitamin C Tabs 250mg 100s	10	0.25	1.25 ± 0.93	12.46	0.02	0.06	18	0.53	1.49 ± 0.94	26.91	0.04	0.08
	Vitamin E Tabs 100mg 50s							1	0.03	0.40 ± 0	0.40	0.00	0.02
	Vitamin Multiple Oral drops 25ml	1	0.02	11.81 ± 0	11.81	0.02	0.61						
	Vitamin Multiple Syr 100ml	78	1.94	0.79 ± 0.69	61.56	0.08	0.04	21	0.62	1.25 ± 0.45	26.28	0.04	0.07
	Vitamin Multiple Tabs 28s	200	4.97	0.38 ± 0.37	76.25	0.10	0.02	154	4.55	0.51 ± 0.24	78.84	0.13	0.03
	Vi-Daylin Syrup with Minerals 150ml	6	0.15	4.16 ± 7.14	24.94	0.03	0.22						
	Dextrose Sol for IV Infus 5% 50ml	1	0.02	7.87 ± 0	7.87	0.01	0.41						

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female													
	Dextrose Sol for IV Infus 5% 1000ml	2	0.05	7.30 ± 0	14.60	0.02	0.38						
	Dextrose in Water Inj 50% 20ml	1	0.02	4.00 ± 0	4.00	0.01	0.21						
	Sodium Alginate in a Hydro-active base 50g	1	0.02	129.60 ± 0	129.60	0.17	**6.73**						
	Lignocaine Gel 2% 20g	1	0.02	14.90 ± 0	14.90	0.02	0.77	4	0.12	14.90 ± 0	59.62	0.10	0.83
	Allopurinol Tabs 300mg 30s							1	0.03	6.33 ± 0	6.33	0.01	0.35
	Aspirin Soluble Tabs 300mg 14s	55	1.37	0.77 ± 0.70	42.10	0.05	0.04	66	1.95	1.57 ± 0.20	103.39	0.17	0.09
	Colchicine Tabs 1mg 60s							52	1.54	116.24 ± 5.55	6044.65	**9.96**	**6.48**
	Diclofenac Inj 25mg/ml 3ml	41	1.02	380.17 ± 401.90	15586.99	**20.11**	**19.75**						
	Diclofenac Tabs 25mg 42s	5	0.12	4.70 ± 1.17	23.49	0.03	0.24	37	1.09	7.53 ± 4.78	278.50	0.46	0.42
	Ibuprofen Susp 100mg/5ml 100ml	6	0.15	1.97 ± 2.37	11.81	0.02	0.10	4	0.12	6.39 ± 0	25.54	0.04	0.36
	Ibuprofen Tabs 200mg 15s	131	3.25	1.22 ± 0.64	159.62	0.21	0.06	187	5.53	1.63 ± 0.65	304.20	0.50	0.09
	Methyl Salicylate In Vaseline Oint 10% 25g	9	0.22	0.64 ± 0	5.80	0.01	0.03	46	1.36	0.64 ± 0	29.62	0.05	0.04
	Paracetamol Codeine Phos Tabs 500mg/8mg 20s	2	0.05	115.47 ± 0	230.95	0.30	**6.00**	21	0.62	132.71 ± 74.31	2786.85	**4.59**	**7.40**
	Paracetamol Syr 120mg/5ml 50ml	45	1.12	1.12 ± 0.87	50.45	0.07	0.06	32	0.95	2.20 ± 0	70.40	0.12	0.12
	Paracetamol Syr 120mg/5ml 100ml	19	0.47	2.26 ± 0.78	42.86	0.06	0.12	8	0.24	2.70 ± 0	21.60	0.04	0.15
	Paracetamol Tabs 500mg 10s	263	6.53	0.92 ± 0.69	242.87	0.31	0.05	340	10.05	0.95 ± 0.21	322.95	0.53	0.05
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	9	0.22	9.62 ± 13.45	86.59	0.11	0.50	17	0.50	5.57 ± 1.50	94.71	0.16	0.31
	Tilidine Oral Drops 100mg/1ml 10ml	1	0.02	1.25 ± 0	1.25	0.00	0.06	2	0.06	1.10 ± 0.27	2.21	0.00	0.06
	Ibuprofen Tabs 200mg 30s	2	0.05	1.86 ± 0	3.72	0.00	0.10						
	Diclofenac Tabs 25mg 28s	4	0.10	0.49 ± 0.48	1.96	0.00	0.03	18	0.53	3.31 ± 2.84	59.50	0.10	0.18
	Codeine Phosphate Tabs 30mg 100s	16	0.40	13.13 ± 5.08	210.00	0.27	0.68						
	Morphine Sulphate IV Inj 15mg 1ml	5	0.12	1.06 ± 0.91	5.32	0.01	0.06						
	Morphine Sulphate Tabs 30mg 60s	1	0.02	10.01 ± 0	10.01	0.01	0.52						
	Pethidine IM Inj 50mg/ml 1ml 10s	11	0.27	3.64 ± 4.48	40.00	0.05	0.19						
	Pethidine IM Inj 100mg/2ml 1ml 10s	4	0.10	21.56 ± 23.21	86.24	0.11	1.12						

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Chloroquine Tabs 150mg 100s							1	0.03	1.68 ± 0	1.68	0.00	0.09
	Vaccine Tetanus Adosrbed 10 dose 10ml	2	0.05	1.59 ± 0.75	3.18	0.00	0.08	6	0.18	1.41 ± 0.55	8.49	0.01	0.08
	Beclomethasone MDI 100mg 200 dose							10	0.30	40.51 ± 0.00	405.08	0.67	**2.26**
	Beclomethasone nasal Spray Aqueous 50mg	1	0.02	14.54 ± 0	14.54	0.02	0.76						
	Budesonide MDI 200mg 300 dose							1	0.03	49.02 ± 0	49.02	0.08	**2.73**
	Fenoterol Inhaler Complete 100	1	0.02	0.33 ± 0	0.33	0.00	0.02						
	Fenoterol UDV 0.5mg/2ml 60s	4	0.10	15.60 ± 27.49	62.39	0.08	0.81	2	0.06	37.87 ± 26.80	75.74	0.12	**2.11**
	Ipratropium UDV 0.25mg/2ml 2ml 60s	1	0.02	1.98 ± 0	1.98	0.00	0.10						
	Salbutamol MDI Complete 100mg 200 dose	3	0.07	21.05 ± 9.12	63.16	0.08	1.09	26	0.77	15.79 ± 0	410.51	0.68	0.88
	Salbutamol Syr 2mg/5ml 150ml	3	0.07	3.75 ± 3.17	11.26	0.01	0.19	4	0.12	5.59 ± 0	22.35	0.04	0.31
	Salbutamol Tabs 2mg 28s	1	0.02	0.11 ± 0	0.11	0.00	0.01						
	Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	2	0.05	22.56 ± 29.87	45.13	0.06	1.17	4	0.12	29.48 ± 19.91	117.90	0.19	1.64
	Theophylline Syr 200ml	33	0.82	3.85 ± 1.86	127.13	0.16	0.20	25	0.74	5.62 ± 1.08	140.50	0.23	0.31
	Theophylline Anhydrous Tabs 200mg 60s	2	0.05	13.34 ± 0.65	26.69	0.03	0.69	11	0.33	13.38 ± 4.81	147.23	0.24	0.75
	Theophylline Anhydrous Tabs 250mg 56s	4	0.10	1.59 ± 0.90	6.36	0.01	0.08	3	0.09	13.20 ± 0	39.60	0.07	0.74
	Mist Expectorant Stim Syr Adult 200ml	14	0.35	1.63 ± 0.66	22.78	0.03	0.08	15	0.44	2.41 ± 0	36.15	0.06	0.13
	Mist Tussi Infants Mist 100ml	1	0.02	1.71 ± 0	1.71	0.00	0.09	16	0.47	2.65 ± 0.85	37.60	0.06	0.13
	Ethionamide Tabs 250mg 250s	3	0.07	8.87 ± 3.84	26.62	0.03	0.46						
	Pyrazinamide Tabs 500mg 28s	1	0.02	0.12 ± 0	0.12	0.00	0.01						
	Rifampicin Caps 150mg 100s	3	0.07	7.47 ± 3.56	22.41	0.03	0.39						
	Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	20	0.50	7.70 ± 9.52	153.99	0.20	0.40						
	Rifampicin 150mg, Isoniazid 75mg Tabs 60s	13	0.32	28.35 ± 19.79	368.60	0.48	1.47	2	0.06	29.63 ± 0	59.27	0.10	1.65

Appendix D.25: Average cost per medicine item according to therapeutic codes and gender (continue)

Gender	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
Female	Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	39	0.97	24.62 ± 20.69	960.02	1.24	1.28	19	0.56	43.32 ± 6.21	823.07	1.36	**2.42**
	Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s	1	0.02	83.91 ± 0	83.91	0.11	**4.36**						
	Rifampicin 300mg & Isoniazid 150mg Tabs 40s							4	0.12	33.96 ± 0	135.82	0.22	1.89
	Streptomycin Inj 1g/3ml	1	0.02	27.36 ± 0	27.36	0.04	1.42						
	Streptomycin Sulphate Inj 5g/15ml	3	0.07	4.56 ± 2.85	13.67	0.02	0.24						
	Pseudoephedrine Tabs 60mg 20s							6	0.18	2.35 ± 0	14.11	0.02	0.13
	Chlorpheniramine Mal Tabs 4mg 30s	15	0.37	1.53 ± 0.94	22.88	0.03	0.08	42	1.24	2.16 ± 0.15	90.77	0.15	0.12
	Promethazine Inj 25mg/ml 1ml	3	0.07	0.90 ± 0.88	2.70	0.00	0.05						
	Promethazine Inj 25mg/ml 2ml							5	0.15	1.60 ± 0.55	8.00	0.01	0.09
	Promethazine Tabs 25mg 500s	2	0.05	0.46 ± 0.57	0.92	0.00	0.02	8	0.24	2.04 ± 2.23	16.35	0.03	0.11
	Chlorpheniramine Mal Syr 2mg/5ml 50ml	2	0.05	1.31 ± 0.21	2.62	0.00	0.07	6	0.18	1.46 ± 0	8.74	0.01	0.08
	Total	**4026**	**100**		**77514.40**	**100**	**1.00**	**3384**	**100**		**60699.73**	**100**	

* Percentage was calculated for therapeutic codes according to the total number of medicine items for male and female patients respectively

** Percentage was calculated for therapeutic codes according to the total cost for male and female patients respectively

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Amoxycillin Caps 250mg 15s	6	0.55	1.24 ± 0.68	7.44	0.06	0.10						
	Amoxycillin Caps 500mg 15s							1	0.35	2.46 ± 0	2.46	0.09	0.27
	Amoxycillin Susp 125mg/5ml 100ml	33	3.02	2.22 ± 0.86	73.32	0.55	0.18	18	6.29	2.61 ± 0	47.05	1.78	0.28
	Amoxycillin Susp 250mg/5ml 100ml	3	0.27	3.83 ± 0	11.50	0.09	0.32	2	0.70	3.83 ± 0	7.66	0.29	0.41
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	6	0.55	12.19 ± 0	73.14	0.55	1.00	7	2.45	12.19 ± 0	85.33	**3.22**	1.32
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s							1	0.35	1.39 ± 0	1.39	0.05	0.15
	Ampicillin Inj 250mg	84	7.69	10.95 ± 12.71	919.73	**6.94**	0.90						
	Ampicillin Inj 500mg	14	1.28	24.24 ± 25.57	339.41	2.56	**2.00**						
	Benzathine Penicillin G Inj. 2.4Mu Vials	1	0.09	67.41 ± 0	67.41	0.51	**5.56**						
	Benzylpenicillin G Inj 1Mu 50s	1	0.09	3.36 ± 0	3.36	0.03	0.28						
	Clindamycin Caps 150mg 100s							2	0.70	22.94 ± 15.36	45.88	1.73	**2.48**
	Co-Trimoxazole for IV Infus 480mg 5ml	6	0.55	5.01 ± 3.95	30.03	0.23	0.41						
	Flucloxacillin Caps 250mg 20s	2	0.18	7.41 ± 9.37	14.82	0.11	0.61						
	Flucloxacillin Susp 125mg 100ml	1	0.09	9.48 ± 0	9.48	0.07	0.78						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	1	0.09	21.90 ± 0	21.90	0.17	1.81						
	Gentamicin Inj 40mg/ml 1ml	76	6.96	2.63 ± 2.45	199.62	1.51	0.22	2	0.70	4.73 ± 5.20	9.45	0.36	0.51
	Gentamicin Inj 80mg/2ml 2ml	14	1.28	5.34 ± 4.47	74.82	0.56	0.44	2	0.70	2.13 ± 0	4.26	0.16	0.23
	Nalidixic Acid Susp 250mg/ml 100ml	1	0.09	27.33 ± 0	27.33	0.21	**2.25**						

D.20. Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Phenoxymethyl Penicillin Susp 250mg/5ml 100ml							1	0.35	3.17 ± 0	3.17	0.12	0.34
	Fluconazole Susp 50mg/5ml 35ml	1	0.09	0.00 ± 0	0.00	0.00	0.00						
	Cefotaxime Inj 1g/15ml	1	0.09	12.90 ± 0	12.90	0.10	1.06						
	Ceftriaxone IM Inj 250mg	28	2.56	259.50 ± 226.81	7266.00	**54.85**	**21.39**	2	0.70	84.00 ± 0	168.00	**6.34**	**9.07**
	Ceftriaxone Inj 1g	8	0.73	14.15 ± 9.40	113.23	0.85	1.17	1	0.35	9.24 ± 0	9.24	0.35	1.00
	Co-trimoxazole Tabs 480mg 20s	5	0.46	0.19 ± 0.16	0.93	0.01	0.02						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	93	8.52	1.51 ± 2.61	140.25	1.06	0.12	19	6.64	5.07 ± 6.37	96.31	**3.64**	0.55
	Co-trimoxazole Syr 200/40mg/5ml 100ml	2	0.18	1.83 ± 0	3.66	0.03	0.15	9	3.15	4.27 ± 1.29	38.43	1.45	0.46
	Erythromycin Susp 125mg/5ml 100ml	2	0.18	5.19 ± 3.14	10.37	0.08	0.43	1	0.35	7.41 ± 0	7.41	0.28	0.80
	Metronidazole IV Inj 500mg/ml 100ml	6	0.55	0.09 ± 0.17	0.55	0.00	0.01						
	Metronidazole Tabs 200mg 21s	5	0.46	1.83 ± 2.80	9.13	0.07	0.15						
	Metronidazole Susp 200mg/5ml 50ml							3	1.05	6.62 ± 0	19.87	0.75	0.72
	Metronidazole Susp 200mg/5ml 100ml							1	0.35	1.83 ± 0	1.83	0.07	0.20
	Efavirenz Caps 50mg 30s	1	0.09	2.61 ± 0	2.61	0.02	0.22						
	Efavirenz Caps 200mg 90s	5	0.46	66.93 ± 32.85	334.66	2.53	**5.52**	4	1.40	112.76 ± 83.91	451.03	**17.03**	**12.17**
	Lamivudine Oral Sol 10mg/ml 240ml	7	0.64	29.49 ± 16.65	206.44	1.56	**2.43**	4	1.40	30.93 ± 12.49	123.73	**4.67**	**3.34**
	Lopinavir Syr 60ml	2	0.18	315.23 ± 0	630.46	**4.76**	**25.99**						
	Stavudine Caps 15mg 60s	2	0.18	19.25 ± 0	38.50	0.29	1.59						
	Stavudine Caps 20mg 60s	4	0.37	23.27 ± 9.31	93.07	0.70	1.92						
	Stavudine D4t Sol 200ml							4	1.40	170.47 ± 60.17	681.87	**25.74**	**18.40**
	Griseofulvin Tabs 125mg 100s							1	0.35	11.99 ± 0	11.99	0.45	1.29
	Nystatin Oral Susp 100 000Iu 20ml	5	0.46	3.47 ± 3.33	17.36	0.13	0.29	1	0.35	3.99 ± 0	3.99	0.15	0.43

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Furosemide Tabs 40mg 28s	2	0.18	3.42 ± 2.09	6.83	0.05	0.28	1	0.35	9.84 ± 0	9.84	0.37	1.06
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	1	0.09	0.02 ± 0	0.02	0.00	0.00						
	Ferrous Lactate Drops eq 25mg Fe/ml 10ml							1	0.35	57.48 ± 0	57.48	2.17	**6.21**
	Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	19	1.74	6.10 ± 5.18	115.94	0.88	0.50						
	Folic Acid Tabs 5mg 28s	80	7.33	0.29 ± 0.42	23.30	0.18	0.02	8	2.80	0.75 ± 0.27	5.98	0.23	0.08
	Clotrimazole Cream 1% 20g							2	0.70	2.55 ± 0	5.10	0.19	0.28
	Miconazole Nitrate Oral Gel 2% 30g	2	0.18	45.28 ± 0.06	90.56	0.68	**3.73**						
	Podophyllum Resin Oint 10g							1	0.35	21.05 ± 0	21.05	0.79	**2.27**
	Hydrocortisone Cream 1% 20g							2	0.70	3.45 ± 0	6.89	0.26	0.37
	Benzyl Benzoate Emuls 100ml	2	0.18	1.27 ± 0	2.54	0.02	0.10	1	0.35	1.27 ± 0	1.27	0.05	0.14
	Aqueous Cream 100g	1	0.09	1.02 ± 0	1.02	0.01	0.08	1	0.35	1.02 ± 0	1.02	0.04	0.11
	Aqueous Cream 500g	1	0.09	3.12 ± 0	3.12	0.02	0.26						
	Zinc & Castor Oil Oint 25g							1	0.35	0.83 ± 0	0.83	0.03	0.09
	Acyclovir Tabs 200mg 25s							1	0.35	1.44 ± 0	1.44	0.05	0.16
	Chloramphenicol Eye Oint 1% 3.5g	1	0.09	3.36 ± 0	3.36	0.03	0.28	2	0.70	1.68 ± 0	3.36	0.13	0.18
	Antazoline Tetrahydrozoline Eye Drops 10ml	1	0.09	0.06 ± 0	0.06	0.00	0.00						
	Acetic Acid Ear Drops 1% in normal saline 10ml							2	0.70	2.75 ± 0	5.50	0.21	0.30
	Oxymetazoline Nose Drops 0.025% 10ml							1	0.35	7.37 ± 0	7.37	0.28	0.80
	Sodium Chloride Nose Drops 0.9% 10ml	1	0.09	0.02 ± 0	0.02	0.00	0.00	2	0.70	2.75 ± 0	5.50	0.21	0.30
	Arachis Oil, Paradichlorbenzene chlorbut 10ml	1	0.09	17.00 ± 0	17.00	0.13	1.40						
	Betamethasone Valerate Cream 0.1% 15g							1	0.35	1.90 ± 0	1.90	0.07	0.21

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Oestrogens Conj Vaginal Cream 42.5g							1	0.35	53.00 ± 0	53.00	2.00	**5.72**
	Dexamethasone IM Inj 4mg/ml 1ml	1	0.09	36.86 ± 0	36.86	0.28	**3.04**						
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	5	0.46	28.17 ± 34.44	140.84	1.06	**2.32**						
	Methylprednisolone Inj 40mg/ml 1ml	2	0.18	11.13 ± 5.24	22.25	0.17	0.92						
	Prednisolone Syr 15mg/5ml 50ml	11	1.01	11.13 ± 8.57	122.47	0.92	0.92	2	0.70	19.83 ± 0	39.67	1.50	**2.14**
	Prednisone Tabs 5mg 28s	3	0.27	0.39 ± 0.44	1.15	0.01	0.03	1	0.35	2.09 ± 0	2.09	0.08	0.23
	Carbamazepine Susp 100mg/5ml 250ml							1	0.35	67.89 ± 0	67.89	2.56	**7.33**
	Clonazepam Inj 1mg/ml 1ml	1	0.09	6.09 ± 0	6.09	0.05	0.50	1	0.35	20.49 ± 0	20.48	0.77	**2.21**
	Phenobarbitone Tabs 30mg 28s	5	0.46	0.65 ± 0.51	3.27	0.02	0.05						
	Phenobarbitone Vit Nicot Syrup 100ml	2	0.18	40.98 ± 28.98	81.96	0.62	**3.38**						
	Phenytoin Inj 50mg/ml 5ml	1	0.09	22.39 ± 0	22.39	0.17	1.85						
	Sodium Valproate Liqiud Sugar Free 200mg 300ml	1	0.09	85.35 ± 0	85.35	0.64	**7.04**	1	0.35	85.35 ± 0	85.35	**3.22**	**9.22**
	Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	1	0.09	0.94 ± 0	0.94	0.01	0.08						
	Amitriptyline Tabs 25mg 28s	1	0.09	23.26 ± 0	23.26	0.18	1.92						
	Diazepam Inj 5mg/ml 2ml	2	0.18	1.46 ± 1.47	2.92	0.02	0.12	1	0.35	0.53 ± 0	0.53	0.02	0.06
	Diazepam Tabs 5mg 10s	2	0.18	0.03 ± 0	0.06	0.00	0.00						
	Albendazole Susp 100mg/5ml 20ml	9	0.82	9.40 ± 9.86	84.63	0.64	0.78	1	0.35	7.05 ± 0	7.05	0.27	0.76
	Albendazole Tabs 200mg 2s	3	0.27	5.84 ± 0	17.52	0.13	0.48						
	Metoclopramide Inj 5mg/ml 2ml	2	0.18	0.59 ± 0.68	1.17	0.01	0.05						
	Metoclopramide Syr 5mg/5ml 50ml	2	0.18	1.51 ± 1.28	3.01	0.02	0.12	3	1.05	2.41 ± 0	7.23	0.27	0.26

D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Half Darrows & Glucose 5% Sol 200ml	14	1.28	12.68 ± 10.94	177.45	1.34	1.04						
	Half Darrows & Glucose 5% Sol 500ml	5	0.46	17.89 ± 3.24	89.47	0.68	1.48						
	Hyoscine-N-Butylbromide Syr 100ml	1	0.09	19.99 ± 0	19.99	0.15	1.65	1	0.35	19.99 ± 0	19.99	0.75	**2.16**
	Hyoscine-N-Butylbromide Tabs 10mg 10s							1	0.35	2.27 ± 0	2.27	0.09	0.25
	Liquid Paraffin 200ml	1	0.09	4.43 ± 0	4.43	0.03	0.37						
	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	25	2.29	0.55 ± 0.19	13.68	0.10	0.05	7	2.45	0.87 ± 0.65	6.08	0.23	0.09
	Thymol Glycerine B.P. Mouth wash 100ml							1	0.35	1.18 ± 0	1.18	0.04	0.13
	Electrolyte no 2 Sol 1000ml	2	0.18	24.33 ± 0	48.66	0.37	**2.01**						
	Ringers Lactate Sol 200ml	1	0.09	10.00 ± 0	10.00	0.08	0.82						
	Ringers Lactate Sol 1000ml	2	0.18	5.63 ± 6.26	11.26	0.09	0.46						
	Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.09	17.54 ± 0	17.54	0.13	1.45						
	Potassium Chloride Syr 300mg/5ml 100ml	32	2.93	1.07 ± 0.86	34.30	0.26	0.09						
	Potassium Citrate Mixture 100ml	1	0.09	0.53 ± 0	0.53	0.00	0.04	1	0.35	2.35 ± 0	2.35	0.09	0.25
	Vitamin A Caps 100 000Iu 250s	22	2.01	0.34 ± 0.17	7.58	0.06	0.03	2	0.70	1.56 ± 1.81	3.13	0.12	0.17
	Vitamin A Tabs 50 000Iu 200s	1	0.09	0.10 ± 0	0.10	0.00	0.01						
	Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	2	0.18	7.70 ± 3.63	15.40	0.12	0.63						
	Vitamin B Co Strong Tabs 28s	1	0.09	0.03 ± 0	0.03	0.00	0.00						
	Vitamin B Co Syr 100ml	8	0.73	0.45 ± 0.46	3.61	0.03	0.04	1	0.35	1.09 ± 0	1.09	0.04	0.12
	Vitamin C Tabs 250mg 100s							1	0.35	2.41 ± 0	2.41	0.09	0.26

).26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Vitamin Multiple Oral drops 25ml	2	0.18	11.81 ± 0	23.61	0.18	0.97						
	Vitamin Multiple Syr 100ml	135	12.36	0.72 ± 0.71	97.35	0.73	0.06	44	15.38	1.32 ± 0.45	58.08	2.19	0.14
	Vitamin Multiple Tabs 28s	12	1.10	0.24 ± 0.23	2.82	0.02	0.02	2	0.70	0.40 ± 0	0.80	0.03	0.04
	Bettaway Children's Own Tabs 60s	1	0.09	3.50 ± 0	3.50	0.03	0.29						
	Dextrose in Water Inj 50% 20ml	1	0.09	4.00 ± 0	4.00	0.03	0.33						
	Ibuprofen Susp 100mg/5ml 100ml	7	0.64	2.10 ± 2.24	14.69	0.11	0.17	5	1.75	6.39 ± 0	31.93	1.21	0.69
	Paracetamol Syr 120mg/5ml 50ml	83	7.60	1.29 ± 0.82	107.00	0.81	0.11	48	16.78	2.16 ± 0.29	103.62	**3.91**	0.23
	Paracetamol Syr 120mg/5ml 100ml	22	2.01	2.14 ± 0.69	47.18	0.36	0.18	8	2.80	2.70 ± 0	21.60	0.82	0.29
	Paracetamol Tabs 500mg 10s	13	1.19	0.73 ± 0.85	9.46	0.07	0.06	1	0.35	0.51 ± 0	0.51	0.02	0.06
	Tilidine Oral Drops 100mg/1ml 10ml							4	1.40	2.53 ± 3.12	10.12	0.38	0.27
	Pethidine IM Inj 50mg/ml 1ml 10s							1	0.35	1.00 ± 0	1.00	0.04	0.11
	Vaccine Tetanus Adosrbed 10 dose 10ml	1	0.09	2.12 ± 0	2.12	0.02	0.17						
	Fenoterol UDV 0.5mg/2ml 60s	8	0.73	15.72 ± 25.40	125.74	0.95	1.30						
	Ipratropium UDV 0.25mg/2ml 2ml 60s	3	0.27	2.66 ± 0.59	7.98	0.06	0.22						
	Salbutamol MDI Complete 100mg 200 dose	1	0.09	15.79 ± 0	15.79	0.12	1.30						
	Salbutamol Syr 2mg/5ml 150ml	15	1.37	3.97 ± 1.81	59.59	0.45	0.33						
	Salbutamol Tabs 2mg 28s	1	0.09	0.11 ± 0	0.11	0.00	0.01						
	Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	8	0.73	14.51 ± 18.60	116.05	0.88	1.20	2	0.70	22.56 ± 29.87	45.13	1.70	**2.44**
	Theophylline Syr 200ml	9	0.82	2.24 ± 2.39	20.13	0.15	0.18	9	3.15	6.00 ± 1.80	54.04	2.04	0.65
	Mist Expectorant Stim Syr Adult 200ml	1	0.09	1.21 ± 0	1.21	0.01	0.10						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
<0≤6	Mist Tussi Infants Mist 100ml	5	0.46	1.44 ± 0.61	7.18	0.05	0.12	13	4.55	1.71 ± 0	22.22	0.84	0.18
	Ethionamide Tabs 250mg 250s	3	0.27	8.87 ± 3.84	26.62	0.20	0.73						
	Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	39	3.57	6.58 ± 9.16	256.43	1.94	0.54	2	0.70	6.67 ± 0	13.34	0.50	0.72
	Rifampicin 150mg, Isoniazid 75mg Tabs 60s	7	0.64	23.81 ± 14.43	166.70	1.26	1.96						
	Pseudoephedrine Tabs 60mg 20s	1	0.09	0.23 ± 0	0.23	0.00	0.02						
	Chlorpheniramine Mal Syr 2mg/5ml 50ml	3	0.27	1.17 ± 0.29	3.50	0.03	0.10	7	2.45	1.41 ± 0.11	9.90	0.37	0.15
	Total	**1092**	**100**		**13246.36**	**100**		**286**	**100**		**2648.94**	**100**	
>6≤12	Amoxycillin Caps 250mg 15s	3	1.01	1.11 ± 0.62	3.33	0.06	0.06	6	2.65	1.61 ± 0.52	9.63	0.12	0.04
	Amoxycillin Caps 500mg 15s	1	0.34	0.46 ± 0	0.46	0.01	0.02	1	0.44	2.61 ± 0	2.61	0.03	0.07
	Amoxycillin Susp 125mg/5ml 100ml	5	1.69	2.17 ± 0.99	10.85	0.19	0.12	7	3.10	2.99 ± 0.99	20.91	0.25	0.08
	Amoxycillin Susp 250mg/5ml 100ml	2	0.68	3.83 ± 0	7.66	0.14	0.20	1	0.44	3.83 ± 0	3.83	0.05	0.10
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	4	1.35	12.19 ± 0	48.76	0.87	0.65	2	0.88	12.19 ± 0	24.38	0.29	0.33
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	0.34	18.39 ± 0	18.39	0.33	0.98						
	Ampicillin Inj 250mg	3	1.01	19.54 ± 7.61	58.63	1.05	1.04						
	Ampicillin Inj 500mg	3	1.01	127.82 ± 173.14	383.47	**6.88**	**6.79**						
	Benzylpenicillin G Inj 1Mu 50s	1	0.34	25.20 ± 0	25.20	0.45	1.34						
	Cloxacillin IV Inj 500mg	2	0.68	55.38 ± 42.17	110.76	1.99	**2.94**						
	Flucloxacillin Caps 250mg 20s							2	0.88	11.70 ± 5.51	23.39	0.28	0.32
	Fluconazole Inj for IV Infus 2mg/ml 100ml	2	0.68	114.05 ± 32.26	228.09	**4.09**	**6.06**						
	Gentamicin Inj 40mg/ml 1ml	1	0.34	6.30 ± 0	6.30	0.11	0.33						
	Gentamicin Inj 80mg/2ml 2ml	3	1.01	2.84 ± 1.23	8.52	0.15	0.15						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>6≤12	Phenoxymethyl Penicillin Tabs 250mg 20s							1	0.44	2.58 ± 0	2.58	0.03	0.07
	Cefotaxime Inj 500mg	1	0.34	51.21 ± 0	51.21	0.92	**2.72**						
	Cefotaxime Inj 1g/15ml	1	0.34	14.33 ± 0	14.33	0.26	0.76						
	Ceftriaxone Inj 1g	4	1.35	32.35 ± 22.00	129.41	2.32	1.72						
	Co-trimoxazole Tabs 480mg 20s							8	3.54	3.03 ± 0.95	24.27	0.29	0.08
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s							3	1.33	3.78 ± 1.31	11.33	0.14	0.10
	Co-trimoxazole Susp 200/40mg/5ml 50ml	8	2.70	2.88 ± 2.14	23.06	0.41	0.15	3	1.33	4.83 ± 3.22	14.48	0.17	0.13
	Co-trimoxazole Syr 200/40mg/5ml 100ml	6	2.03	3.47 ± 1.93	20.82	0.37	0.18	1	0.44	1.83 ± 0	1.83	0.02	0.05
	Erythromycin Susp 125mg/5ml 100ml	2	0.68	7.41 ± 0	14.82	0.27	0.39						
	Erythromycin Tabs 250mg 20s	3	1.01	7.84 ± 0.48	23.52	0.42	0.42	1	0.44	8.40 ± 0	8.40	0.10	0.23
	Metronidazole IV Inj 500mg/ml 100ml							1	0.44	42.97 ± 0	42.97	0.52	1.17
	Metronidazole Tabs 200mg 21s	6	2.03	0.34 ± 0.32	2.03	0.04	0.02	2	0.88	1.12 ± 0	2.24	0.03	0.03
	Metronidazole Susp 200mg/5ml 50ml							3	1.33	6.62 ± 0	19.87	0.24	0.18
	Efavirenz Caps 50mg 30s							11	4.87	524.59 ± 185.56	5770.54	**69.50**	**14.28**
	Efavirenz Caps 200mg 90s	4	1.35	62.45 ± 33.57	249.82	**4.48**	**3.32**	11	4.87	72.09 ± 19.67	792.99	**9.55**	1.96
	Lamivudine Oral Sol 10mg/ml 240ml	8	2.70	25.94 ± 17.15	207.52	**3.72**	1.38	5	2.21	54.64 ± 20.78	273.19	**3.29**	1.49
	Lamivudine Tabs 150mg 60s	6	2.03	4.23 ± 2.80	25.41	0.46	0.22	5	2.21	30.79 ± 17.84	153.94	1.85	0.84
	Lopinavir Syr 60ml	4	1.35	320.75 ± 248.46	1282.99	**23.02**	**17.03**						
	Stavudine Caps 20mg 60s	8	2.70	14.60 ± 7.43	116.82	2.10	0.78	8	3.54	16.67 ± 5.49	133.38	1.61	0.45
	Stavudine D4t Caps 30mg 60s							1	0.44	19.50 ± 0	19.50	0.23	0.53
	Stavudine D4t Caps 40mg 60s							2	0.88	21.19 ± 0	42.38	0.51	0.58
	Zidovudine Caps 300mg 60s	4	1.35	10.345 ± 2.64	40.96	0.73	0.54						
	Nystatin Oral Susp 100 000Iu 20ml	1	0.34	3.99 ± 0	3.99	0.07	0.21	1	0.44	3.99 ± 0	3.99	0.05	0.11

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>6≤12	Glyceryl Trinitrate SL Tabs 0.5mg 50s	12	4.05	5.19 ± 5.48	62.34	1.12	0.28						
	Enalapril Tabs 5mg 28s	14	4.73	127.86 ± 141.13	1790.10	**32.12**	**6.79**						
	Furosemide Inj 10mg/ml 2ml	8	2.70	6.12 ± 6.09	48.99	0.88	0.33						
	Spironolactone Tabs 25mg 240s	11	3.72	2.42 ± 0.96	26.59	0.48	0.13						
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s							1	0.44	1.16 ± 0	1.16	0.01	0.03
	Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	1	0.34	20.07 ± 0	20.07	0.36	1.07						
	Folic Acid Tabs 5mg 28s	18	6.08	0.34 ± 0.33	6.14	0.11	0.02						
	Miconazole Nitrate cream 2% 40g							1	0.44	39.93 ± 0	39.93	0.48	1.09
	Selenium Sulphide Shampoo 2.5% 50ml							1	0.44	19.30 ± 0	19.30	0.23	0.53
	Calamine Lotion 100ml	1	0.34	1.22 ± 0	1.22	0.02	0.06						
	Benzyl Benzoate Emuls 100ml	3	1.01	0.93 ± 0.59	2.80	0.05	0.05						
	Acyclovir Tabs 200mg 25s	1	0.34	1.01 ± 0	1.01	0.02	0.05						
	Chloramphenicol Eye Oint 1% 3.5g							1	0.44	1.68 ± 0	1.68	0.02	0.05
	Antazoline Tetrahydrozoline Eye Drops 10ml							2	0.88	4.73 ± 0	9.46	0.11	0.13
	Acetic Acid Ear Drops 1% in normal saline 10ml							1	0.44	2.75 ± 0	2.75	0.03	0.07
	Sodium Bicarbonate Powder 500g	7	2.36	0.68 ± 0.27	4.76	0.09	0.04						
	Sodium Chloride Nose Drops 0.9% 10ml							1	0.44	2.75 ± 0	2.75	0.03	0.07
	Arachis Oil, Paradichlorbenzene chlorbut 10ml							1	0.44	17.00 ± 0	17.00	0.20	0.46
	Prednisone Tabs 5mg 28s	13	4.39	1.86 ± 0.01	24.17	0.43	0.10	5	2.21	2.96 ± 3.05	14.78	0.18	0.08

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>6≤12	Carbamazepine CR Tabs 200mg 30s	5	1.69	4.14 ± 3.92	20.69	0.37	0.22	1	0.44	20.37 ± 0	20.37	0.25	0.55
	Phenobarbitone Tabs 30mg 28s	1	0.34	0.04 ± 0	0.04	0.00	0.00						
	Phenobarbitone Tabs 30mg 56s							3	1.33	1.65 ± 0	4.94	0.06	0.04
	Phenytoin Caps 100mg 84s	1	0.34	0.94 ± 0	0.94	0.02	0.05						
	Sodium Valproate Liqiud Sugar Free 200mg 300ml	2	0.68	85.35 ± 0	170.70	**3.06**	**4.53**						
	Sodium Valproate Tabs 200mg 28s							4	1.77	39.18 ± 0	156.70	1.89	1.07
	Sodium Valproate Tabs Cr 300mg 84s							1	0.44	84.18 ± 0	84.18	1.01	**2.29**
	Valproic Acid Caps 150mg 56s							2	0.88	39.16 ± 0	78.32	0.94	1.07
	Diazepam Inj 5mg/ml 2ml	1	0.34	1.05 ± 0	1.05	0.02	0.06	1	0.44	0.53 ± 0	0.53	0.01	0.01
	Albendazole Susp 100mg/5ml 20ml	1	0.34	7.05 ± 0	7.05	0.13	0.37	1	0.44	7.05 ± 0	7.05	0.08	0.19
	Albendazole Tabs 200mg 2s	1	0.34	5.84 ± 0	5.84	0.10	0.31	3	1.33	5.84 ± 0	17.52	0.21	0.16
	Aluminium Hydroxide Susp 350ml							1	0.44	27.33 ± 0	27.33	0.33	0.74
	Metoclopramide Inj 5mg/ml 2ml	2	0.68	7.46 ± 7.53	14.91	0.27	0.40						
	Half Darrows & Glucose 5% Sol 200ml	1	0.34	3.68 ± 0	3.68	0.07	0.20	1	0.44	10.50 ± 0	10.50	0.13	0.29
	Loperamide Tabs 2mg 6s							2	0.88	0.85 ± 0	1.70	0.02	0.02
	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	2	0.68	0.76 ± 0	1.52	0.03	0.04	2	0.88	0.76 ± 0	1.52	0.02	0.02
	Thymol Glycerine B.P. Mouth wash 100ml	1	0.34	0.53 ± 0	0.53	0.01	0.03	1	0.44	1.18 ± 0	1.18	0.01	0.03
	Sodium Chloride 0.9% Inj 200ml	2	0.68	34.62 ± 0	69.24	1.24	1.84						
	Calcitriol Caps 0.25mg 30s	6	2.03	0.68 ± 0.05	4.08	0.07	0.04						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>6≤12	Calsium Carbonate & Glycine Tabs 420mg 300s	4	1.35	0.82 ± 0.33	3.29	0.06	0.04						
	Potassium Chloride Slow Tabs 600mg 14s	1	0.34	0.19 ± 0	0.19	0.00	0.01						
	Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s							8	3.54	8.90 ± 0	71.21	0.86	0.24
	Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	1	0.34	1.03 ± 0	1.03	0.02	0.05						
	Vitamin B Co Syr 100ml	2	0.68	1.29 ± 1.25	2.58	0.05	0.07						
	Vitamin C Tabs 100mg 28s							3	1.33	0.72 ± 0	2.17	0.03	0.02
	Vitamin C Tabs 250mg 100s							1	0.44	1.2 ± 0	1.20	0.01	0.03
	Vitamin Multiple Syr 100ml	20	6.76	1.36 ± 0.73	27.25	0.49	0.07	12	5.31	1.35 ± 0.67	16.25	0.20	0.04
	Vitamin Multiple Tabs 28s	4	1.35	0.15 ± 0.17	0.58	0.01	0.01	8	3.54	0.50 ± 0.18	3.98	0.05	0.01
	Vi-Daylin Syrup with Minerals 150ml	6	2.03	4.16 ± 7.14	24.94	0.45	0.22						
	Dextrose Sol for IV Infus 5% 1000ml	1	0.34	7.30 ± 0	7.30	0.13	0.39						
	Ibuprofen Susp 100mg/5ml 100ml	5	1.69	3.83 ± 3.03	19.16	0.34	0.20	5	2.21	6.39 ± 0	31.93	0.38	0.17
	Ibuprofen Tabs 200mg 15s	3	1.01	0.33 ± 0.52	0.99	0.02	0.02	3	1.33	0.93 ± 0	2.79	0.03	0.03
	Methyl Salicylate In Vaseline Oint 10% 25g							2	0.88	0.64 ± 0	1.29	0.02	0.02
	Paracetamol Syr 120mg/5ml 50ml	9	3.04	1.58 ± 0.85	14.19	0.25	0.08	18	7.96	2.69 ± 1.61	48.40	0.58	0.07
	Paracetamol Syr 120mg/5ml 100ml	11	3.72	2.85 ± 0.50	31.32	0.56	0.15	7	3.10	3.09 ± 1.02	21.60	0.26	0.08
	Paracetamol Tabs 500mg 10s	11	3.72	0.47 ± 0.28	5.17	0.09	0.02	9	3.98	0.62 ± 0.23	5.62	0.07	0.02
	Tilidine Oral Drops 100mg/1ml 10ml	1	0.34	1.25 ± 0	1.25	0.02	0.07	1	0.44	1.39 ± 0	1.39	0.02	0.04
	Pethidine IM Inj 50mg/ml 1ml 10s							1	0.44	0.50 ± 0	0.50	0.01	0.01
	Vaccine Tetanus Adosrbed 10 dose 10ml	1	0.34	1.06 ± 0	1.06	0.02	0.06	1	0.44	1.06 ± 0	1.06	0.01	0.03

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>6≤12	Beclomethasone MDI 100mg 200 dose							1	0.44	40.51 ± 0	40.51	0.49	1.10
	Salbutamol MDI Complete 100mg 200 dose							5	2.21	15.79 ± 0	78.95	0.95	0.43
	Salbutamol Syr 2mg/5ml 150ml							3	1.33	5.59 ± 0	16.76	0.20	0.15
	Theophylline Syr 200ml							2	0.88	5.40 ± 0	10.81	0.13	0.15
	Mist Expectorant Stim Syr Adult 200ml							2	0.88	2.41 ± 0	4.82	0.06	0.07
	Mist Tussi Infants Mist 100ml	1	0.34	1.71 ± 0	1.71	0.03	0.09	3	1.33	1.71 ± 0	5.13	0.06	0.05
	Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	2	0.68	12.39 ± 9.43	24.78	0.44	0.66						
	Pseudoephedrine Tabs 60mg 20s							1	0.44	2.35 ± 0	2.35	0.03	0.06
	Chlorpheniramine Mal Tabs 4mg 30s							1	0.44	2.19 ± 0	2.19	0.03	0.06
	Chlorpheniramine Mal Syr 2mg/5ml 50ml	1	0.34	1.46 ± 0	1.46	0.03	0.08	6	2.65	1.46 ± 0	8.74	0.11	0.04
	Total	**296**	**100**		**5573.84**	**100**		**226**	**100**		**8302.90**	**100**	
>12≤19	Amoxycillin Caps 250mg 15s	1	0.48	1.82 ± 0	1.82	0.04	0.09	4	2.55	1.82 ± 0	7.27	0.44	0.17
	Amoxycillin Caps 500mg 15s	4	1.93	2.48 ± 2.64	9.90	0.24	0.13	6	3.82	3.46 ± 0	20.74	1.25	0.33
	Amoxycillin Susp 125mg/5ml 100ml							1	0.64	2.61 ± 0	2.61	0.16	0.25
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	0.48	184.90 ± 0	184.90	**4.52**	**9.36**						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	2	0.97	18.39 ± 0	36.79	0.90	0.93	1	0.64	18.40 ± 0	18.40	1.11	1.74
	Ampicillin Inj 500mg	5	2.42	109.33 ± 66.68	546.65	**13.37**	**5.54**						
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml							1	0.64	257.37 ± 0	257.37	**15.53**	**24.39**
	Ciprofloxacin Tabs 500mg 10s							1	0.64	0.26 ± 0	0.26	0.02	0.02
	Flucloxacillin Caps 250mg 20s	3	1.45	9.36 ± 2.70	28.07	0.69	0.47	2	1.27	11.70 ± 5.51	23.39	1.41	1.11

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>12≤19	*Fluconazole Inj for IV Infus* 2mg/ml 100ml	1	0.48	608.24 ± 0	608.24	**14.88**	**30.79**						
	Gentamicin Inj 40mg/ml 1ml	2	0.97	3.158 ± 0	6.30	0.15	0.16						
	Gentamicin Inj 80mg/2ml 2ml	9	4.35	18.11 ± 12.42	162.95	**3.99**	0.92						
	Ketoconazole Tabs 200mg 30s	1	0.48	92.50 ± 0	92.50	2.26	**4.68**						
	Phenoxymethyl Penicillin Tabs 250mg 20s	2	0.97	6.19 ± 5.84	12.38	0.30	0.31	1	0.64	2.58 ± 0	2.58	0.16	0.24
	Nitrofurantoin Caps 100mg 30s							1	0.64	24.75 ± 0	24.75	1.49	**2.35**
	Ceftriaxone IM Inj 250mg	1	0.48	840.00 ± 0	840.00	**20.55**	**42.53**						
	Ceftriaxone Inj 1g	5	2.42	96.13 ± 69.35	480.64	**11.76**	**4.87**						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	1	0.48	1.00 ± 0	1.00	0.02	0.05						
	Doxycycline Caps 100mg 14s	1	0.48	1.10 ± 0	1.10	0.03	0.06	5	3.18	1.55 ± 0	7.77	0.47	0.15
	Erythromycin Tabs 250mg 20s							1	0.64	33.60 ± 0	33.60	2.03	**3.18**
	Metronidazole IV Inj 500mg/ml 100ml	7	3.38	0.30 ± 0.15	2.11	0.05	0.02	1	0.64	1.48 ± 0	1.48	0.09	0.14
	Metronidazole Tabs 200mg 21s	8	3.86	0.79 ± 0.64	6.29	0.15	0.04	6	3.82	1.12 ± 0	6.72	0.41	0.11
	Lamivudine Tabs 150mg 60s							1	0.64	4.30 ± 0	4.30	0.26	0.41
	Zidovudine Caps 300mg 60s							1	0.64	7.54 ± 0	7.54	0.46	0.71
	Atenolol Tabs 100mg 28s	1	0.48	1.94 ± 0	1.94	0.05	0.10						
	Furosemide Inj 10mg/ml 2ml	2	0.97	1.66 ± 1.40	3.31	0.08	0.08						
	Methyldopa Tabs 250mg 56s	1	0.48	0.72 ± 0	0.72	0.02	0.04						
	Tranexamic Acid Inj 100mg/ml 5ml 5s	3	1.45	114.87 ± 101.30	344.60	**8.43**	**5.82**	1	0.64	38.29 ± 0	38.29	2.31	**3.63**
	Tranexamic Acid Tabs 500mg 60s	1	0.48	13.37 ± 0	13.37	0.33	0.68	1	0.64	24.08 ± 0	24.08	1.45	**2.28**
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	12	5.80	0.92 ± 0.60	10.99	0.27	0.05						
	Folic Acid Tabs 5mg 28s	8	3.86	0.56 ± 0.47	4.49	0.11	0.03						
	Mupirocin Topical Oint 2% 15g							1	0.64	16.53 ± 0	16.53	1.00	1.57
	Indomethacin Supps 100mg 10s	1	0.48	11.40 ± 0	11.40	0.28	0.58						
	Benzyl Benzoate Emuls 100ml							3	1.91	1.27 ± 0	3.82	0.23	0.12

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>12≤19	Monosulfiram Soap 5% 75g							1	0.64	6.46 ± 0	6.46	0.39	0.61
	Acetic Acid Ear Drops 1% in normal saline 10ml							1	0.64	2.75 ± 0	2.75	0.17	0.26
	Sodium Chloride Nose Drops 0.9% 10ml							1	0.64	2.75 ± 0	2.75	0.17	0.26
	Norgestrel Oestradiol Tabs 28s	1	0.48	24.76 ± 0	24.76	0.61	1.25	1	0.64	19.37 ± 0	19.37	1.17	1.84
	Oxytocin 5Iu/ml 5s	1	0.48	9.97 ± 0	9.97	0.24	0.50						
	Oxytocin Inj 10Iu 1ml 5s	1	0.48	11.39 ± 0	11.39	0.28	0.58						
	Prednisone Tabs 5mg 28s	4	1.93	0.91 ± 0.80	3.65	0.09	0.05	2	1.27	2.09 ± 0	4.17	0.25	0.20
	Carbamazepine CR Tabs 200mg 30s							1	0.64	20.37 ± 0	20.37	1.23	1.93
	Lorazepam Inj 4mg/ml 1ml	2	0.97	26.98 ± 0	53.96	1.32	1.37						
	Lorazepam Tabs 1mg 100s	1	0.48	2.18 ± 0	2.18	0.05	0.11						
	Bromocriptine Mesylate Tabs 2.5mg 30s	3	1.45	9.18 ± 2.28	27.53	0.67	0.46						
	Trihexyphenidyl Tabs 2mg 100s	4	1.93	0.34 ± 0.46	1.36	0.03	0.02						
	Amitriptyline Tabs 25mg 28s	1	0.48	3.65 ± 0	3.65	0.09	0.18						
	Fluoxetine Caps 20mg 28s	1	0.48	2.52 ± 0	2.52	0.06	0.13	1	0.64	2.52 ± 0	2.52	0.15	0.24
	Orphenadrine Tabs 50mg 28s	2	0.97	2.73 ± 3.10	5.47	0.13	0.14						
	Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	1	0.48	19.80 ± 0	19.80	0.48	1.00						
	Aluminium Hydroxide Susp 350ml	2	0.97	14.05 ± 18.79	28.10	0.69	0.71	1	0.64	27.33 ± 0	27.33	1.65	**2.59**
	Cimetidine IV Inj 100mg/ml 2ml	1	0.48	4.95 ± 0	4.95	0.12	0.25						
	Cimetidine Tabs 200mg 30s	1	0.48	1.44 ± 0	1.44	0.04	0.07						
	Cimetidine Tabs 400mg 60s	1	0.48	0.23 ± 0	0.23	0.01	0.01						
	Magnesium Trisillicate Co Mixt 200ml	2	0.97	3.20 ± 1.51	6.39	0.16	0.16	1	0.64	2.13 ± 0	2.13	0.13	0.20
	Metoclopramide Tabs 10mg 15s	3	1.45	0.47 ± 0	1.42	0.03	0.02						

).26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>12≤19	Metoclopramide Tabs 10mg 10s	3	1.45	1.30 ± 1.13	3.89	0.10	0.07	1	0.64	1.30 ± 0	1.30	0.08	0.12
	Magnesium Sulphate Crystals 500g							1	0.64	11.30 ± 0	11.30	0.68	1.07
	Hyoscine-N-Butylbromide Inj 50mg/ml							1	0.64	1.50 ± 0	1.50	0.09	0.14
	Thymol Glycerine B.P. Mouth wash 100ml							3	1.91	1.18 ± 0	3.55	0.21	0.11
	Ringers Lactate Sol 1000ml	2	0.97	10.05 ± 0	20.11	0.49	0.51						
	Vitamin B Co Strong Tabs 28s	10	4.83	0.48 ± 0.44	4.76	0.12	0.02	1	0.64	0.74 ± 0	0.74	0.04	0.07
	Vitamin C Tabs 100mg 28s	1	0.48	0.72 ± 0	0.72	0.02	0.04						
	Vitamin C Tabs 250mg 100s	1	0.48	2.41 ± 0	2.41	0.06	0.12	3	1.91	2.18 ± 0.40	6.53	0.39	0.21
	Vitamin Multiple Tabs 28s	11	5.31	0.43 ± 0.41	4.72	0.12	0.02	4	2.55	0.40 ± 0	1.59	0.10	0.04
	Aspirin Soluble Tabs 300mg 14s	2	0.97	1.81 ± 1.92	3.62	0.09	0.09						
	Diclofenac Inj 25mg/ml 3ml	3	1.45	115.47 ± 0	346.42	**8.47**	**5.85**	6	3.82	115.47 ± 0	692.84	**41.82**	**10.94**
	Diclofenac Tabs 25mg 42s	1	0.48	5.22 ± 0	5.22	0.13	0.26	1	0.64	10.44 ± 0	10.44	0.63	0.99
	Ibuprofen Susp 100mg/5ml 100ml							1	0.64	6.39 ± 0	6.39	0.39	0.61
	Ibuprofen Tabs 200mg 15s	18	8.70	1.27 ± 0.61	22.81	0.56	0.06	28	17.83	1.13 ± 0.39	31.62	1.91	0.11
	Methyl Salicylate In Vaseline Oint 10% 25g	1	0.48	0.64 ± 0	0.64	0.02	0.03						
	Paracetamol Codeine Phos Tabs 500mg/8mg 20's							1	0.64	115.47 ± 0	115.47	**6.97**	**10.94**
	Paracetamol Syr 120mg/5ml 50ml							1	0.64	2.20 ± 0	2.20	0.13	0.21
	Paracetamol Syr 120mg/5ml 100ml							2	1.27	2.70 ± 0	5.40	0.33	0.26
	Paracetamol Tabs 500mg 10s	30	14.49	0.89 ± 0.40	26.78	0.65	0.05	36	22.93	0.74 ± 0.26	26.57	1.60	0.07
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	2	0.97	5.41 ± 0	10.82	0.26	0.27						
	Ibuprofen Tabs 200mg 30s	1	0.48	1.86 ± 0	1.86	0.05	0.09						
	Diclofenac Tabs 25mg 28s	1	0.48	1.19 ± 0	1.19	0.03	0.06	2	1.27	2.38 ± 0	4.76	0.29	0.23

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>12≤19	Pethidine IM Inj 50mg/ml 1ml 10s	1	0.48	4.00 ± 0	4.00	0.10	0.20						
	Vaccine Tetanus Adosrbed 10 dose 10ml	1	0.48	2.12 ± 0	2.12	0.05	0.11	3	1.91	1.06 ± 0	3.18	0.19	0.10
	Beclomethasone MDI 100mg 200 dose							2	1.27	40.51 ± 0	81.02	**4.89**	**3.84**
	Salbutamol MDI Compiete 100mg 200 dose							2	1.27	15.79 ± 0	31.58	1.91	1.50
	Theophylline Syr 200ml							1	0.64	5.40 ± 0	5.40	0.33	0.51
	Theophylline Anhydrous Tabs 200mg 60s							2	1.27	9.20 ± 0	18.40	1.11	0.87
	Mist Expectorant Stim Syr Adult 200ml	1	0.48	1.45 ± 0	1.45	0.04	0.07						
	Pseudoephedrine Tabs 60mg 20s	1	0.48	2.35 ± 0	2.35	0.06	0.12						
	Chlorpheniramine Mal Tabs 4mg 30s	1	0.48	1.46 ± 0	1.46	0.04	0.07	1	0.64	2.19 ± 0	2.19	0.13	0.21
	Promethazine Inj 25mg/ml 2ml							2	1.27	1.00 ± 0	2.00	0.12	0.09
	Promethazine Tabs 25mg 500s							3	1.91	0.51 ± 0.30	1.54	0.09	0.05
	Total	**207**	**100**		**4088.58**	**100**		**157**	**100**		**1656.83**	**100**	
>19≤40	Amoxycillin Caps 250mg 15s	2	0.10	1.645 ± 0.26	3.27	0.01	0.07	3	0.15	1.82 ± 0	5.45	0.02	0.10
	Amoxycillin Caps 500mg 15s	31	1.48	2.90 ± 1.30	89.85	0.18	0.12	58	2.90	3.52 ± 0.45	204.31	0.59	0.20
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	20	0.95	105.80 ± 67.41	2116.03	**4.20**	**4.40**						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	46	2.20	18.95 ± 2.90	871.88	1.73	0.79	34	1.70	17.98 ± 2.56	610.46	1.75	1.03
	Ampicillin Inj 250mg	3	0.14	8.23 ± 1.78	24.69	0.05	0.34						
	Ampicillin Inj 500mg	68	3.25	130.30 ± 89.11	8860.67	**17.58**	**5.42**						
	Benzathine Penicillin G Inj. 2.4Mu Vials	2	0.10	11.98 ± 0	23.97	0.05	0.50	3	0.15	11.98 ± 0	35.95	0.10	0.69
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml							3	0.15	154.42 ± 89.16	463.26	1.33	**8.85**

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Ciprofloxacin Tabs 500mg 10s	8	0.38	1.15 ± 1.23	9.17	0.02	0.05	28	1.40	0.83 ± 1.22	23.21	0.07	0.05
	Cloxacillin IV Inj 500mg	10	0.48	61.77 ± 43.04	617.70	1.23	2.57						
	Co-Trimoxazole for IV Infus 480mg 5ml	2	0.10	5.78 ± 5.83	11.55	0.02	0.24						
	Flucloxacillin Caps 250mg 20s	13	0.62	13.80 ± 7.05	179.35	0.36	0.57	10	0.50	19.50 ± 8.42	194.95	0.56	1.12
	Fluconazole Caps 50mg 14s	3	0.14	99.51 ± 55.24	298.54	0.59	**4.14**						
	Fluconazole Caps 200mg 28s	7	0.33	17.26 ± 17.45	120.84	0.24	0.72	1	0.05	86.75 ± 0	86.75	0.25	**4.97**
	Fluconazole Inj for IV Infus 2mg/ml 100ml	2	0.10	182.47 ± 172.04	364.94	0.72	**7.58**						
	Gentamicin Inj 40mg/ml 1ml	4	0.19	10.24 ± 4.73	40.95	0.08	0.43						
	Gentamicin Inj 80mg/2ml 2ml	59	2.82	20.18 ± 10.86	1190.67	2.36	0.84						
	Ketoconazole Tabs 200mg 30s	14	0.67	40.30 ± 41.60	564.25	1.12	1.68	13	0.65	63.47 ± 29.41	825.10	2.36	**3.64**
	Nalidixic Acid Tabs 500mg 100s							1	0.05	22.90 ± 0	22.90	0.07	1.31
	Nitrofurantoin Caps 100mg 50s							1	0.05	16.50 ± 0	16.50	0.05	0.95
	Phenoxymethyl Penicillin Tabs 250mg 20s							3	0.15	6.88 ± 2.98	20.64	0.06	0.39
	Nitrofurantoin Caps 100mg 30s	1	0.05	3.27 ± 0	3.27	0.01	0.14						
	Cefazolin Inj 500mg	9	0.43	440.71 ± 391.09	3966.36	**7.87**	**18.32**	2	0.10	49.58 ± 23.37	99.16	0.28	**2.84**
	Ceftriaxone IM Inj 250mg	1	0.05	1260.00 ± 0	1260.00	2.50	**52.37**						
	Ceftriaxone Inj 1g	29	1.38	35.78 ± 35.60	1037.53	2.06	1.49	5	0.25	9.24 ± 0	46.22	0.13	0.53
	Co-trimoxazole Tabs 480mg 20s	64	3.05	1.83 ± 1.75	116.96	0.23	0.08	17	0.85	3.01 ± 1.49	51.24	0.15	0.17
	Co-trimoxazole Tabs 400mg 1000s							1	0.05	0.03 ± 0	0.03	0.00	0.00
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	31	1.48	4.75 ± 1.22	147.29	0.29	0.20	81	4.05	4.67 ± 0.90	378.21	1.08	0.27
	Co-trimoxazole Susp 200/40mg/5ml 50ml	1	0.05	1.78 ± 0	1.78	0.00	0.07						
	Doxycycline Caps 100mg 14s	6	0.29	1.92 ± 0.64	11.55	0.02	0.08	47	2.35	34.75 ± 226.42	1633.05	**4.68**	1.99
	Erythromycin Tabs 250mg 20s	6	0.29	9.52 ± 6.50	57.12	0.11	0.40	15	0.75	20.16 ± 6.96	302.41	0.87	1.16
	Erythromycin Tabs 250mg 56s							1	0.05	4.53 ± 0	4.53	0.01	0.26

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Metronidazole IV Inj 500mg/ml 100ml	66	3.15	0.26 ± 0.15	17.23	0.03	0.01	4	0.20	16.52 ± 20.15	66.08	0.19	0.95
	Metronidazole Tabs 200mg 21s	56	2.67	1.56 ± 0.78	87.33	0.17	0.06	48	2.40	1.59 ± 0.56	76.16	0.22	0.09
	Metronidazole Tabs 200mg 60s							1	0.05	40.11 ± 0	40.11	0.11	**2.30**
	Spectinomycin Inj 400mg/ml 2g 5ml	1	0.05	27.63 ± 0	27.63	0.05	1.15						
	Metronidazole Tabs 200mg 10s							1	0.05	0.53 ± 0	0.53	0.00	0.03
	Acyclovir Cream 5% 2g							2	0.10	3.09 ± 0	6.17	0.02	0.18
	Efavirenz Caps 600mg 30s	10	0.48	182.19 ± 105.57	1821.94	**3.61**	**7.57**	34	1.70	256.17 ± 51.45	8709.70	**24.95**	**14.69**
	Lamivudine Tabs 150mg 60s	30	1.43	32.62 ± 16.55	978.70	1.94	1.36	83	4.15	41.66 ± 5.14	3457.72	**9.90**	**2.39**
	Nevirapine Tabs 200mg 60s	17	0.81	32.32 ± 14.56	549.47	1.09	1.34	48	2.40	38.44 ± 15.11	1845.06	**5.28**	**2.20**
	Stavudine D4t Caps 30mg 60s	16	0.76	14.10 ± 7.53	225.54	0.45	0.59	33	1.65	18.32 ± 3.23	604.50	1.73	1.05
	Stavudine D4t Caps 40mg 60s	11	0.53	19.52 ± 5.54	214.74	0.43	0.81	52	2.60	20.99 ± 1.47	1091.29	**3.13**	1.20
	Zidovudine Caps 300mg 60s	2	0.10	39.60 ± 50.67	79.20	0.16	1.65						
	Amphotericin B Lozenges 10mg 20s	1	0.05	1.86 ± 0	1.86	0.00	0.08						
	Nystatin Oral Susp 100 000Iu 20ml	4	0.19	9.98 ± 8.47	39.91	0.08	0.41	1	0.05	3.99 ± 0	3.99	0.01	0.23
	Glyceryl Trinitrate SL Tabs 0.5mg 50s	3	0.14	2.00 ± 2.03	6.01	0.01	0.08	2	0.10	4.29 ± 0	8.59	0.02	0.25
	Atenolol Tabs 50mg 28s	6	0.29	0.79 ± 1.00	4.72	0.01	0.03	1	0.05	1.04 ± 0	1.04	0.00	0.06
	Furosemide Tabs 40mg 28s	8	0.38	28.59 ± 41.52	228.72	0.45	1.19	3	0.15	45.56 ± 15.78	136.67	0.39	**2.61**
	Furosemide Tabs 40mg 56s	1	0.05	2.89 ± 0	2.89	0.01	0.12						
	Furosemide Inj 10mg/ml 2ml	7	0.33	8.80 ± 11.50	61.57	0.12	0.37						
	Hydrochlorothiazide Tabs 25mg 14s							2	0.10	6.93 ± 3.27	13.87	0.04	0.40
	Hydrochlorothiazide Tabs 25mg 28s	8	0.38	0.41 ± 0.43	3.28	0.01	0.02						
	Mannitol Inj for IV use 20% 50ml	1	0.05	210.00 ± 0	210.00	0.42	**8.73**						
	Methyldopa Tabs 250mg 56s							1	0.05	20.40 ± 0	20.40	0.06	1.17
	Nifedipine Caps 5mg 100s	1	0.05	1.31 ± 0	1.31	0.00	0.05						
	Perindopril Tabs 4mg 28s	7	0.33	5.46 ± 5.69	38.23	0.08	0.23						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Propranolol Tabs 10mg 60s	1	0.05	0.33 ± 0	0.33	0.00	0.01						
	Propranolol Tabs 40mg 28s	1	0.05	0.88 ± 0	0.88	0.00	0.04						
	Spironolactone Tabs 25mg 240s	3	0.14	11.71 ± 13.10	35.14	0.07	0.49	4	0.20	56.99 ± 0	227.94	0.65	**3.27**
	Spironolactone Tabs 25mg 14s	8	0.38	5.86 ± 8.49	46.90	0.09	0.24						
	HeparinIV Inj 5 000Iu/ml 5ml	3	0.14	10.14 ± 7.86	30.41	0.06	0.42						
	Tranexamic Acid Inj 100mg/ml 5ml 5s	5	0.24	99.55 ± 79.40	497.76	0.99	**4.14**						
	Tranexamic Acid Tabs 500mg 60s	2	0.10	13.32 ± 15.21	26.65	0.05	0.55	2	0.10	100.33 ± 85.13	200.66	0.57	**5.75**
	Warfarin Sodium Tabs 5mg 28s	3	0.14	6.48 ± 7.87	19.45	0.04	0.27	1	0.05	15.57 ± 0	15.57	0.04	0.89
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	82	3.91	0.85 ± 0.86	70.10	0.14	0.04	23	1.15	1.58 ± 0.56	36.28	0.10	0.09
	Ferrous Sulphate Co Tabs eq 65mg Fe 84s	10	0.48	4.17 ± 0	41.70	0.08	0.17	4	0.20	4.17 ± 0	16.68	0.05	0.24
	Folic Acid Tabs 5mg 28s	75	3.58	0.53 ± 0.41	39.80	0.08	0.02	22	1.10	1.00 ± 0	21.93	0.06	0.06
	Folic Acid Tabs 5mg 1000s							1	0.05	247.34 ± 0	247.34	0.71	**14.18**
	Phytomenadione IM Inj 10mg/ml 1ml							1	0.05	11.69 ± 0	11.69	0.03	0.67
	Clotrimazole Cream 1% 20g							7	0.35	2.55 ± 0	17.85	0.05	0.15
	Malic Acid, Benz Acid & Salicyl Acid Cream 50g	1	0.05	17.49 ± 0	17.49	0.03	0.73						
	Miconazole Nitrate Oral Gel 2% 30g	6	0.29	44.24 ± 1.55	265.42	0.53	1.84	1	0.05	45.24 ± 0	45.24	0.13	**2.59**
	Mupirocin Topical Oint 2% 15g							1	0.05	16.53 ± 0	16.53	0.05	0.95
	Nystatin Vaginal Tabs 15s	1	0.05	3.06 ± 0	3.06	0.01	0.13						
	Selenium Sulphide Shampoo 2.5% 50ml							1	0.05	19.30 ± 0	19.30	0.06	1.11
	Podophyllum Resin 25g							1	0.05	42.66 ± 0	42.66	0.12	**2.45**
	Podophyllum Resin Oint 10g	1	0.05	21.05 ± 0	21.05	0.04	0.87	1	0.05	21.05 ± 0	21.05	0.06	1.21
	Silver Sulphadiazine Cream 50g							1	0.05	8.25 ± 0	8.25	0.02	0.47
	Calamine Lotion 100ml							1	0.05	1.22 ± 0	1.22	0.00	0.07

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Hydrocortisone Cream 1% 20g							2	0.10	3.45 ± 0	6.89	0.02	0.20
	Indomethacin Caps 25mg 28s	6	0.29	1.19 ± 1.00	7.16	0.01	0.05	9	0.45	1.62 ± 0.55	14.62	0.04	0.09
	Indomethacin Supps 100mg 10s	3	0.14	1.90 ± 1.32	5.70	0.01	0.08						
	Benzoyl Peroxide Cream 5% 40g							1	0.05	18.23 ± 0	18.23	0.05	1.05
	Benzyl Benzoate Emuls 100ml							4	0.20	1.50 ± 0.87	6.01	0.02	0.09
	Monosulfiram Soap 5% 75g							1	0.05	6.46 ± 0	6.46	0.02	0.37
	Aqueous Cream 100g							4	0.20	1.02 ± 0	4.06	0.01	0.06
	Aqueous Cream 500g	1	0.05	3.12 ± 0	3.12	0.01	0.13						
	Zinc & Castor Oil Oint 25g	3	0.14	0.83 ± 0	2.50	0.00	0.03	3	0.15	0.83 ± 0	2.50	0.01	0.05
	Zinc Sulphate Grade 500g							1	0.05	249.00 ± 0	249.00	0.71	**14.28**
	Povidone Iodine Oint 25g							1	0.05	1.72 ± 0	1.72	0.00	0.10
	Povidone Iodine Sol 1000ml	2	0.10	16.96 ± 0	33.93	0.07	0.71						
	Acyclovir Tabs 200mg 25s	1	0.05	5.74 ± 0	5.74	0.01	0.24	3	0.15	14.36 ± 12.44	43.08	0.12	0.82
	Chloramphenicol Eye Drops 0.5% 10ml							1	0.05	29.82 ± 0	29.82	0.09	1.71
	Chloramphenicol Eye Oint 1% 3.5g	6	0.29	1.68 ± 0	10.08	0.02	0.07	4	0.20	1.68 ± 0	6.72	0.02	0.10
	Antazoline Tetrahydrozoline Eye Drops 10ml	1	0.05	4.73 ± 0	4.73	0.01	0.20	6	0.30	4.73 ± 0	28.37	0.08	0.27
	Acetic Acid Ear Drops 1% in normal saline 10ml							1	0.05	2.75 ± 0	2.75	0.01	0.16
	Acetic Acid Ear Drops 2% in alcohol							1	0.05	1.90 ± 0	1.90	0.01	0.11
	Sodium Chloride Nose Drops 0.9% 10ml							4	0.20	2.75 ± 0	11.00	0.03	0.16
	Arachis Oil, Paradichlorbenzene chlorbut 10ml							3	0.15	17.00 ± 0	51.00	0.15	0.97
	Betamethasone In Uea Cream 10% 500g							1	0.05	11.73 ± 0	11.73	0.03	0.67

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Betamethasone Valerate Cream 0.1% 15g	1	0.05	3.80 ± 0	3.80	0.01	0.16	7	0.35	2.17 ± 0.72	15.20	0.04	0.12
	Condoms 10s	1	0.05	0 ± 0	0.00	0.00	0.00						
	Medroxyprogesterone Tabs 5mg 30's	1	0.05	113.92 ± 0	113.92	0.23	**4.74**						
	Norgestrel Oestradiol Tabs 28s	1	0.05	19.78 ± 0	19.78	0.04	0.82						
	Oestrogens Conj Tabs 0.625mg 28s							1	0.05	12.40 ± 0	12.40	0.04	0.71
	Insulin Actraphane Hm 100Iu/ml 10ml	3	0.14	28.13 ± 39.23	84.39	0.17	1.17	2	0.10	36.69 ± 0	73.39	0.21	**2.10**
	Insulin Actrapid Hm 100Iu/ml 10ml	4	0.19	0.28 ± 0.11	1.10	0.00	0.01	2	0.10	0.37 ± 0	0.73	0.00	0.02
	Insulin Needles 1s	1	0.05	3.86 ± 0	3.86	0.01	0.16	2	0.10	3.86 ± 0	7.72	0.02	0.22
	Gliclazide Tabs 80mg 56s							1	0.05	12.17 ± 0	12.17	0.03	0.70
	Gliclazide Tabs 80mg 28s	5	0.24	1.12 ± 1.25	5.61	0.01	0.05	5	0.25	3.28 ± 0	16.38	0.05	0.19
	Metformin Tabs 850mg 56s	3	0.14	3.93 ± 3.67	11.80	0.02	0.16	2	0.10	8.16 ± 0	16.32	0.05	0.47
	Metformin Tabs 850mg 84s							5	0.25	11.00 ± 0	55.00	0.16	0.63
	Oxytocin Inj 10Iu 1ml 5s	3	0.14	9.49 ± 3.29	28.47	0.06	0.39						
	Dexamethasone IM Inj 4mg/ml 1ml	4	0.19	31.74 ± 44.40	126.95	0.25	1.32						
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	11	0.53	92.38 ± 62.69	1016.17	2.02	**3.84**	1	0.05	17.83 ± 0	17.83	0.05	1.02
	Prednisone Tabs 5mg 28s	46	2.20	2.32 ± 3.02	106.59	0.21	0.10	39	1.95	2.33 ± 2.53	90.80	0.26	0.13
	Prednisone Tabs 5mg 100s	1	0.05	53.25 ± 0	53.25	0.11	**2.21**	8	0.40	30.01 ± 24.87	240.09	0.69	1.72
	Carbamazepine CR Tabs 200mg 30s	8	0.38	8.16 ± 8.94	65.26	0.13	0.34	35	1.75	15.21 ± 8.41	532.22	1.52	0.87
	Carbamazepine CR Tabs 400mg 30s	1	0.05	2.86 ± 0	2.86	0.01	0.12	15	0.75	44.76 ± 20.58	671.36	1.92	2.57
	Lamotrigine Tabs 25mg 60s							2	0.10	30.00 ± 0	60.00	0.17	1.72
	Lorazepam Inj 4mg/ml 1ml	10	0.48	38.11 ± 36.04	381.06	0.76	1.58						
	Lorazepam Tabs 1mg 100s							1	0.05	1.09 ± 0	1.09	0.00	0.06
	Phenobarbitone Tabs 30mg 56s							9	0.45	3.11 ± 1.53	28.00	0.08	0.18

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Phenytoin Caps 100mg 84s	8	0.38	17.33 ± 12.08	138.67	0.28	0.72						
	Phenytoin Inj 50mg/ml 5ml	2	0.10	93.28 ± 0	186.56	0.37	**3.88**						
	Valproic Acid Caps 500mg 100s							2	0.10	41.75 ± 0	83.51	0.24	**2.39**
	Lamotrigine Tabs 25mg 28s							1	0.05	14.75 ± 0	14.00	0.04	0.80
	Biperidin Inj 5mg/ml 5ml	1	0.05	12.80 ± 0	12.80	0.03	0.53						
	Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml							2	0.10	16.61 ± 0	33.23	0.10	0.95
	Chlorpromazine Inj 25mg/ml 1ml	1	0.05	0.72 ± 0	0.72	0.00	0.03						
	Chlorpromazine Tabs 50mg 500s	1	0.05	198.04 ± 0	198.04	0.39	**8.23**						
	Haloperidol Inj 5mg/ml 1ml	6	0.29	43.35 ± 0	260.08	0.52	1.80						
	Haloperidol Tabs 5mg 14s	26	1.24	0.60 ± 0.76	15.58	0.03	0.02						
	Haloperidol Tabs 5mg 56s	4	0.19	2.55 ± 0	10.20	0.02	0.11	1	0.05	2.55 ± 0	2.55	0.01	0.15
	Chlorpromazine Tabs 25mg 28s							6	0.30	2.39 ± 1.46	14.33	0.04	0.14
	Amitriptyline Tabs 25mg 28s	28	1.34	14.23 ± 11.52	398.51	0.79	0.59	26	1.30	20.40 ± 5.00	530.48	1.52	1.17
	Fluoxetine Caps 20mg 28s	7	0.33	1.87 ± 1.10	13.12	0.03	0.08	8	0.40	2.52 ± 0	20.16	0.06	0.14
	Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	1	0.05	1.50 ± 0	1.50	0.00	0.06						
	Hydroxyzine Tabs 25mg 100s	1	0.05	0.62 ± 0	0.62	0.00	0.03						
	Diazepam Inj 5mg/ml 2ml	5	0.24	1.89 ± 0.95	9.45	0.02	0.08						
	Diazepam Tabs 5mg 500s	2	0.10	0.10 ± 0.09	0.19	0.00	0.00						
	Diazepam Tabs 5mg 10s	14	0.67	0.12 ± 0.13	1.71	0.00	0.01	1	0.05	0.22 ± 0	0.22	0.00	0.01
	Orphenadrine Tabs 50mg 28s	9	0.43	2.46 ± 2.35	22.16	0.04	0.10	3	0.15	4.93 ± 0	14.78	0.04	0.28
	Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	2	0.10	19.80 ± 0	39.60	0.08	0.82	1	0.05	19.80 ± 0	19.80	0.06	1.14
	Albendazole Tabs 200mg 2s	1	0.05	5.84 ± 0	5.84	0.01	0.24	4	0.20	8.76 ± 5.84	35.03	0.10	0.50
	Aluminium Hydroxide Susp 350ml	12	0.57	17.44 ± 12.31	209.24	0.42	0.72	15	0.75	25.66 ± 6.47	384.95	1.10	1.47
	Cimetidine IV Inj 100mg/ml 2ml	2	0.10	4.46 ± 2.10	8.91	0.02	0.19	1	0.05	0.99 ± 0	0.99	0.00	0.06

D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Cimetidine Tabs 200mg 30s	3	0.14	1.44 ± 0	4.32	0.01	0.06	2	0.10	1.44 ± 0	2.88	0.01	0.08
	Cimetidine Tabs 400mg 60s	2	0.10	3.91 ± 4.44	7.83	0.02	0.16	4	0.20	7.93 ± 4.44	31.73	0.09	0.45
	Magnesium Trisillicate Co Mixt 200ml							1	0.05	2.29 ± 0	2.29	0.01	0.13
	Misoprostol Tabs 0.2mg 60s	3	0.14	10.78 ± 6.26	32.35	0.06	0.45	12	0.60	12.99 ± 1.02	155.88	0.45	0.74
	Ranitidine Inj 25mg/ml 2ml							1	0.05	12.00 ± 0	12.00	0.03	0.69
	Omeprazole Caps 20mg 30s							1	0.05	1.44 ± 0	1.44	0.00	0.08
	Metoclopramide Inj 5mg/ml 2ml	17	0.81	5.39 ± 5.11	91.59	0.18	0.22	1	0.05	2.13 ± 0	2.13	0.01	0.12
	Metoclopramide Tabs 10mg 15s	6	0.29	0.47 ± 0	2.83	0.01	0.02	9	0.45	0.47 ± 0	4.25	0.01	0.03
	Prochlorperazine Inj 12.5mg/ml 1ml	2	0.10	3.84 ± 0	7.68	0.02	0.16						
	Metoclopramide Tabs 10mg 10s	6	0.29	0.58 ± 0.71	3.51	0.01	0.02	9	0.45	1.59 ± 0.57	14.28	0.04	0.09
	Bismuth Sub Oxi Res Nic Ainc Supps 10s	5	0.24	6.47 ± 5.32	32.36	0.06	0.27	5	0.25	14.07 ± 0	70.35	0.20	0.81
	Glycerine Supps Adult 12s	1	0.05	23.25 ± 0	23.25	0.05	0.97						
	Lactulose Syr 3.35mg/5ml 150ml	4	0.19	5.17 ± 5.69	20.69	0.04	0.21	2	0.10	9.74 ± 0	19.49	0.06	0.56
	Senna Tabs 1000s	2	0.10	1.66 ± 1.41	3.31	0.01	0.07						
	Senna Tabs 7.5mg 12s	2	0.10	2.65 ± 0	5.30	0.01	0.11	1	0.05	2.65 ± 0	2.65	0.01	0.15
	Sodium Phosphate Enema Sol 135ml	1	0.05	4.26 ± 0	4.26	0.01	0.18						
	Loperamide Tabs 2mg 6s	5	0.24	0.51 ± 0.33	2.54	0.01	0.02	4	0.20	1.27 ± 0.49	5.09	0.01	0.07
	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	5	0.24	2.23 ± 1.37	11.17	0.02	0.09	1	0.05	1.12 ± 0	1.12	0.00	0.06
	Hyoscine-N-Butylbromide Tabs 10mg 10s	1	0.05	0.45 ± 0	0.45	0.00	0.02	4	0.20	2.84 ± 1.14	11.36	0.03	0.16
	Hyoscine-N-Butylbromide Tabs 10mg 15s							2	0.10	3.41 ± 0	6.82	0.02	0.20
	Liquid Paraffin 200ml	2	0.10	2.99 ± 0.47	5.98	0.01	0.12	1	0.05	8.85 ± 0	8.85	0.03	0.51

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	3	0.14	0.76 ± 0	2.28	0.00	0.03	3	0.15	0.63 ± 0.44	1.90	0.01	0.04
	Thymol Glycerine B.P. Mouth wash 100ml	4	0.19	0.68 ± 0.58	2.72	0.01	0.03	11	0.55	1.18 ± 0	13.02	0.04	0.07
	Calcium Folinate Tabs 15mg							1	0.05	1.90 ± 0	1.90	0.01	0.11
	Ringers Lactate 2000ml	1	0.05	10.05 ± 0	10.05	0.02	0.42						
	Ringers Lactate Sol 1000ml	28	1.34	17.23 ± 11.88	482.54	0.96	0.72						
	Sodium Chloride 0.9% Inj 1000ml	5	0.24	10.33 ± 3.85	51.64	0.10	0.43	2	0.10	8.61 ± 0	17.21	0.05	0.49
	Sodium Chloride 0.9% Inj 50ml	1	0.05	1.15 ± 0	1.15	0.00	0.05						
	Calciferol Tabs 50 000Iu 100s							1	0.05	2.41 ± 0	2.41	0.01	0.14
	Calcium Gluconate Tabs 300mg 28s							3	0.15	0.51 ± 0	1.54	0.00	0.03
	Magnesium Chloride Tabs 500-700mg 100s	1	0.05	4.75 ± 0	4.75	0.01	0.20						
	Potassium Chloride Syr 300mg/5ml 100ml	1	0.05	0.70 ± 0	0.70	0.00	0.03						
	Potassium Chloride Inj 15% 10ml							1	0.05	14.38 ± 0	14.38	0.04	0.82
	Potassium Chloride Slow Tabs 600mg 14's	13	0.62	0.86 ± 1.07	11.12	0.02	0.04	3	0.15	3.43 ± 1.62	10.29	0.03	0.20
	Potassium Citrate Mixture 100ml	3	0.14	1.96 ± 0.68	5.88	0.01	0.08	13	0.65	2.71 ± 0.88	35.28	0.10	0.16
	Thiamine IV Inj Vit B1 100mg/ml 10ml	1	0.05	1.27 ± 0	1.27	0.00	0.05						
	Thiamine Tabs 100mg 28s	6	0.29	1.80 ± 1.97	10.81	0.02	0.07						
	Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	8	0.38	7.91 ± 0	63.30	0.13	0.33	40	2.00	10.68 ± 12.61	427.25	1.22	0.61
	Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s							1	0.05	7.91 ± 0	7.91	0.02	0.45
	Vitamin B Co Inj 10ml (IM)	1	0.05	3.98 ± 0	3.98	0.01	0.17	2	0.10	1.20 ± 0	2.39	0.01	0.07

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Vitamin B Co Strong Tabs 28s	60	2.86	0.44 ± 0.45	26.21	0.05	0.02	34	1.70	0.90 ± 0.39	30.70	0.09	0.05
	Vitamin B Co Strong Tabs 1000s	1	0.05	0.21 ± 0	0.21	0.00	0.01						
	Vitamin B Co Syr 100ml	1	0.05	0.05 ± 0	0.05	0.00	0.00						
	Vitamin B6 Tabs 25mg 28s	54	2.58	1.27 ± 0.84	68.47	0.14	0.05	31	1.55	1.99 ± 0	61.72	0.18	0.11
	Vitamin C Tabs 100mg 28s	5	0.24	0.61 ± 0.56	3.07	0.01	0.03	14	0.70	0.93 ± 0.34	13.01	0.04	0.05
	Vitamin C Tabs 250mg 100s	10	0.48	1.59 ± 0.95	15.90	0.03	0.07	25	1.25	1.58 ± 0.84	39.54	0.11	0.09
	Vitamin E Tabs 100mg 50s							1	0.05	0.40 ± 0	0.40	0.00	0.02
	Vitamin Multiple Tabs 28s	128	6.11	0.37 ± 0.36	47.15	0.09	0.02	114	5.69	0.49 ± 0.20	55.32	0.16	0.03
	Dextrose Sol for IV Infus 5% 50ml	1	0.05	7.87 ± 0	7.87	0.02	0.33						
	Dextrose Sol for IV Infus 5% 1000ml	3	0.14	7.30 ± 0	21.89	0.04	0.30						
	Dextrose Sol for IV Infus 10% 1000ml							1	0.05	10.25 ± 0	10.25	0.03	0.59
	Sodium Alginate in a Hydro-active base 50g	2	0.10	21.60 ± 0	43.20	0.09	0.90						
	Lignocaine Gel 2% 20g	4	0.19	14.90 ± 0	59.62	0.12	0.62	5	0.25	14.90 ± 0	74.52	0.21	0.85
	Aspirin Soluble Tabs 300mg 14s	12	0.57	0.88 ± 0.79	10.55	0.02	0.04	11	0.55	1.36 ± 0.50	14.91	0.04	0.08
	Diclofenac Inj 25mg/ml 3ml	43	2.05	354.43 ± 363.78	15240.57	**30.24**	**14.73**	41	2.05	113.91 ± 17.54	4670.51	**13.38**	**6.53**
	Diclofenac Tabs 25mg 42s	5	0.24	4.70 ± 1.17	23.49	0.05	0.20	19	0.95	7.82 ± 6.22	148.54	0.43	0.45
	Ibuprofen Tabs 200mg 15s	104	4.96	1.32 ± 0.61	137.33	0.27	0.05	161	8.04	1.49 ± 0.57	240.03	0.69	0.09
	Methyl Salicylate In Vaseline Oint 10% 25g	1	0.05	0.64 ± 0	0.64	0.00	0.03	21	1.05	0.64 ± 0	13.52	0.04	0.04
	Paracetamol Codeine Phos Tabs 500mg/8mg 20s	2	0.10	115.47 ± 0	230.95	0.46	**4.80**	11	0.55	106.38 ± 30.15	1170.21	**3.35**	**6.10**
	Paracetamol Syr 120mg/5ml 50ml	1	0.05	3.52 ± 0	3.52	0.01	0.15						
	Paracetamol Tabs 500mg 10s	206	9.83	0.89 ± 0.40	184.28	0.37	0.04	243	12.14	0.89 ± 0.23	217.18	0.62	0.05
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	5	0.24	13.42 ± 17.91	67.11	0.13	0.56	8	0.40	5.41 ± 0	43.30	0.12	0.31
	Ibuprofen Tabs 200mg 30s	1	0.05	1.86 ± 0	1.86	0.00	0.08						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Diclofenac Tabs 25mg 28s	10	0.48	1.90 ± 1.32	18.95	0.04	0.08	7	0.35	2.72 ± 0.90	19.04	0.05	0.16
	Codeine Phosphate Tabs 30mg 100s	3	0.14	10.27 ± 8.55	30.80	0.06	0.43						
	Morphine Sulphate IV Inj 15mg 1ml	2	0.10	0.43 ± 0.12	0.86	0.00	0.02						
	Pethidine IM Inj 50mg/ml 1ml 10s	15	0.72	2.67 ± 3.89	40.00	0.08	0.11						
	Pethidine IM Inj 100mg/2ml 1ml 10s	9	0.43	15.15 ± 16.05	136.32	0.27	0.63						
	Vaccine Tetanus Adosrbed 10 dose 10ml	7	0.33	4.55 ± 7.37	31.83	0.06	0.19	18	0.90	1.36 ± 0.49	24.40	0.07	0.08
	Beclomethasone MDI 100mg 200 dose							5	0.25	40.51 ± 0	202.54	0.58	**2.32**
	Beclomethasone nasal Spray Aqueous 50mg	1	0.05	14.54 ± 0	14.54	0.03	0.60						
	Budesonide MDI 200mg 300 dose							1	0.05	49.02 ± 0	49.02	0.14	**2.81**
	Fenoterol UDV 0.5mg/2ml 60s							1	0.05	18.92 ± 0	18.92	0.05	1.08
	Salbutamol MDI Complete 100mg 200 dose	1	0.05	15.79 ± 0	15.79	0.03	0.66	11	0.55	15.79 ± 0	173.68	0.50	0.91
	Salbutamol Syr 2mg/5ml 150ml	2	0.10	5.59 ± 0	11.17	0.02	0.23						
	Salbutamol Tabs 2mg 28s							1	0.05	2.25 ± 0	2.25	0.01	0.13
	Salbutamol UDV Inh Sol 2.5mg/2.5ml 30's							1	0.05	29.09 ± 0	29.09	0.08	1.67
	Theophylline Syr 200ml	19	0.91	4.12 ± 1.67	78.36	0.16	0.17	15	0.75	5.40 ± 0	81.06	0.23	0.31
	Theophylline Anhydrous Tabs 200mg 60s							6	0.30	9.20 ± 0	55.21	0.16	0.53
	Theophylline Anhydrous Tabs 250mg 56s	2	0.10	1.65 ± 1.03	3.30	0.01	0.07						
	Mist Expectorant Stim Syr Adult 200ml	2	0.10	1.08 ± 0.17	2.17	0.00	0.05	14	0.70	2.41 ± 0	33.74	0.10	0.14
	Mist Tussi Infants Mist 100ml	1	0.05	3.42 ± 0	3.42	0.01	0.14	6	0.30	3.13 ± 0.70	18.80	0.05	0.18

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>19≤40	Rifampicin 150mg, Isoniazid 75mg Tabs 60s	8	0.38	23.25 ± 15.94	186.01	0.37	0.97	3	0.15	33.82 ± 9.69	101.47	0.29	1.94
	Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	45	2.15	26.93 ± 22.21	1211.74	2.40	1.12	15	0.75	42.05 ± 10.26	630.69	1.81	**2.41**
	Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s	1	0.05	83.91 ± 0	83.91	0.17	**3.49**						
	Rifampicin 300mg & Isoniazid 150mg Tabs 40s							4	0.20	33.96 ± 0	135.82	0.39	1.95
	Streptomycin Inj 1g/3ml	3	0.14	23.31 ± 4.64	69.92	0.14	0.97						
	Pseudoephedrine Tabs 60mg 20s							5	0.25	2.35 ± 0	11.76	0.03	0.13
	Chlorpheniramine Mal Tabs 4mg 30s	8	0.38	1.99 ± 1.10	15.88	0.03	0.08	32	1.60	2.16 ± 0.11	69.27	0.20	0.12
	Promethazine Inj 25mg/ml 1ml	2	0.10	1.24 ± 0.94	2.47	0.00	0.05						
	Promethazine Inj 25mg/ml 2ml							1	0.05	2.00 ± 0	2.00	0.01	0.11
	Promethazine Tabs 25mg 500s	2	0.10	0.46 ± 0.57	0.92	0.00	0.02	2	0.10	3.09 ± 3.16	6.18	0.02	0.18
	Total	**2095**	**100**		**50401.84**	**100**		**2002**	**100**		**34913.61**	**100**	
>40≤60	Amoxycillin Caps 250mg 15s							5	0.25	4.09 ± 5.45	20.46	0.05	0.19
	Amoxycillin Caps 500mg 15s	25	1.67	2.59 ± 1.52	64.86	0.22	0.13	29	1.46	3.46 ± 0	100.22	0.23	0.16
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	5	0.33	86.28 ± 78.77	431.42	1.44	**4.31**						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	20	1.34	17.29 ± 4.94	345.81	1.15	0.86	23	1.16	17.01 ± 4.60	391.23	0.91	0.79
	Ampicillin Inj 250mg	1	0.07	20.06 ± 0	20.06	0.07	1.00						
	Ampicillin Inj 500mg	39	2.61	152.51 ± 117.91	5947.91	**19.86**	**7.63**						
	Benzathine Penicillin G Inj. 2.4Mu Vials	1	0.07	11.98 ± 0	11.98	0.04	0.60	2	0.10	11.98 ± 0	23.97	0.06	0.56
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	2	0.13	257.37 ± 0	514.74	1.72	**12.87**	2	0.10	180.16 ± 109.19	360.32	0.84	**8.38**

Appendix D.20: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Ciprofloxacin Tabs 500mg 10s	10	0.67	0.93 ± 0.84	9.30	0.03	0.05	8	0.40	1.11 ± 1.19	8.92	0.02	0.05
	Cloxacillin IV Inj 500mg	4	0.27	76.68 ± 40.41	306.72	1.02	**3.83**						
	Flucloxacillin Caps 250mg 20s	5	0.33	15.60 ± 0	77.98	0.26	0.78	9	0.45	14.73 ± 4.69	132.57	0.31	0.68
	Fluconazole Caps 200mg 28s	4	0.27	11.17 ± 4.50	44.69	0.15	0.56						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	2	0.13	136.85 ± 21.50	273.71	0.91	**6.84**						
	Gentamicin Inj 40mg/ml 1ml	2	0.13	6.30 ± 4.45	12.60	0.04	0.31						
	Gentamicin Inj 80mg/2ml 2ml	29	1.94	18.88 ± 11.05	547.50	1.83	0.94						
	Ketoconazole Tabs 200mg 30s	5	0.33	29.51 ± 11.01	147.54	0.49	1.48	1	0.05	30.53 ± 0	30.53	0.07	1.42
	Nitrofurantoin Caps 100mg 50s	2	0.13	13.20 ± 7.00	26.40	0.09	0.66						
	Phenoxymethyl Penicillin Tabs 250mg 20s	1	0.07	5.16 ± 0	5.16	0.02	0.26	1	0.05	2.58 ± 0	2.58	0.01	0.12
	Nitrofurantoin Caps 100mg 30s							1	0.05	49.50 ± 0	49.50	0.12	**2.30**
	Cefazolin Inj 500mg	1	0.07	330.53 ± 0	330.53	1.10	**16.53**						
	Cefotaxime Inj 1g/15ml							1	0.05	7.166 ± 0	7.17	0.02	0.33
	Ceftriaxone Inj 1g	5	0.33	25.88 ± 16.53	129.40	0.43	1.29	3	0.15	12.32 ± 5.34	36.97	0.09	0.57
	Co-trimoxazole Tabs 480mg 20s	37	2.47	1.39 ± 1.34	51.42	0.17	0.07	12	0.60	2.38 ± 0.77	28.57	0.07	0.11
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	29	1.94	5.09 ± 2.05	147.61	0.49	0.25	92	4.63	4.73 ± 0.93	435.07	1.02	0.22
	Doxycycline Caps 100mg 14s	9	0.60	1.18 ± 0.52	10.66	0.04	0.06	15	0.75	1.66 ± 0.40	24.85	0.06	0.08
	Erythromycin IV Inj 1g	1	0.07	484.73 ± 0	484.73	1.62	**24.23**						
	Erythromycin Tabs 250mg 20s	7	0.47	11.88 ± 6.60	83.16	0.28	0.59	6	0.30	15.40 ± 3.43	92.40	0.22	0.72
	Erythromycin Tabs 250mg 100s							1	0.05	33.60 ± 0	33.60	0.08	1.56
	Metronidazole IV Inj 500mg/ml 100ml	18	1.20	0.39 ± 0.32	7.03	0.02	0.02	5	0.25	42.97 ± 0	214.83	0.50	**2.00**
	Metronidazole Tabs 200mg 21s	21	1.40	1.50 ± 0.72	31.52	0.11	0.08	26	1.31	1.68 ± 0.65	43.68	0.10	0.08
	Acyclovir Cream 5% 2g	1	0.07	3.09 ± 0	3.09	0.01	0.15	3	0.15	3.09 ± 0	9.26	0.02	0.14
	Efavirenz Caps 200mg 90s	3	0.20	112.95 ± 88.40	338.86	1.13	**5.65**	3	0.15	107.82 ± 83.47	323.47	0.76	**5.01**
	Efavirenz Caps 600mg 30s	2	0.13	247.34 ± 0	494.69	1.65	**12.37**	63	3.17	264.20 ± 64.26	16644.70	**38.90**	**12.28**
	Lamivudine Tabs 150mg 60s	21	1.40	28.92 ± 18.74	607.23	2.03	1.45	66	3.32	43.61 ± 8.41	2878.37	**6.73**	**2.03**
	Nevirapine Tabs 200mg 60s	16	1.07	24.73 ± 18.10	395.73	1.32	1.24	5	0.25	34.09 ± 13.45	170.47	0.40	1.58

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Stavudine D4t Caps 30mg 60s	11	0.73	12.23 ± 8.66	134.53	0.45	0.61	27	1.36	19.14 ± 1.88	516.75	1.21	0.89
	Stavudine D4t Caps 40mg 60s	6	0.40	21.19 ± 0	127.15	0.42	1.06	44	2.21	22.65 ± 5.45	996.61	2.33	1.05
	Zidovudine Caps 300mg 60s	4	0.27	23.23 ± 34.89	92.93	0.31	1.16						
	Nystatin Oral Susp 100 000Iu 20ml	1	0.07	3.99 ± 0	3.99	0.01	0.20						
	Methotrexate Tabs 2.5mg 100s							11	0.55	9.88 ± 3.60	108.68	0.25	0.46
	Glyceryl Trinitrate SL Tabs 0.5mg 50s	6	0.40	1.14 ± 0.84	6.86	0.02	0.06	7	0.35	5.28 ± 3.41	36.93	0.09	0.25
	Atenolol Tabs 50mg 28s	18	1.20	0.98 ± 0.85	17.69	0.06	0.05	19	0.96	2.07 ± 0	39.37	0.09	0.10
	Atenolol Tabs 100mg 28s	3	0.20	2.15 ± 1.68	6.46	0.02	0.11	2	0.10	3.12 ± 0	6.24	0.01	0.15
	Enalapril Tabs 5mg 28s	2	0.13	254.06 ± 289.83	508.11	1.70	**12.70**	3	0.15	459.00 ± 0	1377.00	**3.22**	**21.34**
	Enalapril Tabs 10mg 28s	12	0.80	2.08 ± 1.42	24.95	0.08	0.10	29	1.46	2.83 ± 0.98	81.95	0.19	0.13
	Enalapril Tabs 20mg 28s	4	0.27	2.80 ± 1.61	11.20	0.04	0.14	7	0.35	3.60 ± 0	25.23	0.06	0.17
	Furosemide Tabs 40mg 28s	14	0.94	17.36 ± 14.74	243.10	0.81	0.87	17	0.85	39.39 ± 22.60	669.65	1.57	1.83
	Furosemide Tabs 40mg 56s	3	0.20	2.89 ± 0	8.66	0.03	0.14	2	0.10	30.22 ± 34.57	60.44	0.14	1.40
	Furosemide Tabs 40mg 250s							1	0.05	3.60 ± 0	3.60	0.01	0.17
	Furosemide Inj 10mg/ml 2ml	6	0.40	7.06 ± 3.99	42.37	0.14	0.35						
	Furosemide Inj 10mg/ml 25ml	1	0.07	31.83 ± 0	31.83	0.11	1.59	1	0.05	0.93 ± 0	0.93	0.00	0.04
	Hydralazine Tabs 25mg 500s							1	0.05	6.72 ± 0	6.72	0.02	0.31
	Hydrochlorothiazide Tabs 25mg 14s	6	0.40	6.17 ± 3.53	37.00	0.12	0.31	6	0.30	9.24 ± 0	55.46	0.13	0.43
	Hydrochlorothiazide Tabs 25mg 28s	35	2.34	0.55 ± 0.41	19.10	0.06	0.03	61	3.07	0.93 ± 0	56.73	0.13	0.04
	Indapamide Tabs 2.5mg 30s	5	0.33	2.56 ± 2.31	12.82	0.04	0.13	8	0.40	3.98 ± 1.27	31.85	0.07	0.19
	Nifedipine Caps 5mg 100s	4	0.27	0.45 ± 0.36	1.79	0.01	0.02						
	Nifedipine Tabs SR 30mg 28s	6	0.40	15.52 ± 10.23	93.10	0.31	0.78	19	0.96	22.11 ± 0	420.17	0.98	1.03
	Nifedipine Tabs SR 60mg 28s	11	0.73	35.80 ± 28.19	393.80	1.32	1.79	23	1.16	59.91 ± 0	1377.98	**3.22**	**2.79**
	Perindopril Tabs 4mg 28s	26	1.74	6.93 ± 6.11	180.26	0.60	0.35	24	1.21	11.06 ± 1.63	256.51	0.60	0.50
	Prazosin Tabs 1mg 14s							2	0.10	18.93 ± 0	37.86	0.09	0.88
	Propranolol Tabs 10mg 60s							2	0.10	0.83 ± 0.70	1.65	0.00	0.04
	Spironolactone Tabs 25mg 240s							5	0.25	21.94 ± 10.41	109.70	0.26	1.02
	Spironolactone Tabs 25mg 14s	2	0.13	3.56 ± 4.36	7.12	0.02	0.18						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Digoxin Tabs 0.25mg 14s	9	0.60	3.53 ± 2.72	31.77	0.11	0.18	7	0.35	3.37 ± 0	23.59	0.06	0.16
	Digoxin Tabs 0.25mg 28s	1	0.07	4.07 ± 0	4.07	0.01	0.20						
	Balanced Heparin 1250Iu/ml 5ml 5s	1	0.07	2764.80 ± 0	2764.80	**9.23**	138.23						
	Heparin IV Inj 1 000Iu/ml 5ml	2	0.13	10.33 ± 11.36	20.66	0.07	0.52						
	HeparinIV Inj 5 000Iu/ml 5ml	9	0.60	22.20 ± 16.95	199.82	0.67	1.11						
	Tranexamic Acid Inj 100mg/ml 5ml 5s	8	0.53	95.72 ± 76.58	765.79	2.56	**4.79**	2	0.10	38.29 ± 0	76.58	0.18	1.78
	Tranexamic Acid Tabs 500mg 60's	1	0.07	40.13 ± 0	40.13	0.13	**2.01**	3	0.15	65.98 ± 81.93	197.93	0.46	**3.07**
	Warfarin Sodium Tabs 5mg 28s	9	0.60	12.66 ± 5.76	113.97	0.38	0.63	3	0.15	15.57 ± 0	46.70	0.11	0.72
	Warfarin Sodium Tabs 5mg 42s							7	0.35	23.90 ± 1.47	167.33	0.39	1.11
	Warfarin Sodium Tabs 5mg 49s							1	0.05	27.24 ± 0	27.24	0.06	1.27
	Warfarin Sodium Tabs 5mg 14s							2	0.10	7.78 ± 0	15.57	0.04	0.36
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	23	1.54	0.64 ± 0.57	14.74	0.05	0.03	4	0.20	1.45 ± 0.58	5.79	0.01	0.07
	Ferrous Sulphate Co Tabs eq 65mg Fe 84s	7	0.47	4.17 ± 0	29.19	0.10	0.21	4	0.20	4.17 ± 0	16.68	0.04	0.19
	Folic Acid Tabs 5mg 28s	24	1.60	0.71 ± 0.42	16.95	0.06	0.04	11	0.55	1.00 ± 0	10.97	0.03	0.05
	Phytomenadione IM Inj 10mg/ml 1ml	4	0.27	29.23 ± 22.39	116.92	0.39	1.46						
	Cholestyramine Powder 4g 50s	1	0.07	15.15 ± 0	15.15	0.05	0.76						
	Simvastatin Tabs 10mg 28s							2	0.10	6.62 ± 0	13.24	0.03	0.31
	Simvastatin Tabs 20mg 28s							1	0.05	9.60 ± 0	9.60	0.02	0.45
	Benzoic Acid Co Oint 25mg	5	0.33	2.54 ± 0.02	12.70	0.04	0.13	4	0.20	4.46 ± 1.28	17.85	0.04	0.21
	Gentian Violet Sol 0.5% 20ml							1	0.05	1.12 ± 0	1.12	0.00	0.05
	Nystatin Vaginal Cream 100 000Iu 60g							1	0.05	50.21 ± 0	50.21	0.12	**2.33**
	Nystatin Vaginal Tabs 15s							2	0.10	24.61 ± 30.86	49.22	0.12	1.14
	Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	1	0.07	5.31 ± 0	5.31	0.02	0.27	1	0.05	5.31 ± 0	5.31	0.01	0.25
	Mercurochrome Sol 1% 20ml	1	0.07	1.18 ± 0	1.18	0.00	0.06	1	0.05	1.18 ± 0	1.18	0.00	0.05
	Podophyllum Resin 25g	1	0.07	42.66 ± 0	42.66	0.14	**2.13**						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Podophyllum Resin Oint 10g							10	0.50	27.37 ± 10.17	273.69	0.64	1.27
	Silver Sulphadiazine Cream 500g	1	0.07	120.00 ± 0	120.00	0.40	**6.00**						
	Calamine Lotion 100ml							1	0.05	1.22 ± 0	1.22	0.00	0.06
	Hydrocortisone Cream 1% 20g							8	0.40	3.45 ± 0	27.58	0.06	0.16
	Indomethacin Caps 25mg 28s	4	0.27	1.04 ± 0	4.18	0.01	0.05	18	0.90	1.51 ± 0.64	27.15	0.06	0.07
	Indomethacin Supps 100mg 10s	1	0.07	1.14 ± 0	1.14	0.00	0.06	3	0.15	23.18 ± 19.09	69.54	0.16	1.08
	Aqueous Cream 100g							4	0.20	1.78 ± 0.97	7.11	0.02	0.08
	Emulsifying Oint 500g	1	0.07	10.79 ± 0	10.79	0.04	0.54						
	Lubricating Jelly Sachet 2.5ml	1	0.07	0.18 ± 0	0.18	0.00	0.01						
	Zinc & Castor Oil Oint 25g							1	0.05	0.83 ± 0	0.83	0.00	0.04
	Povidone Iodine Sol 1000ml							1	0.05	16.96 ± 0	16.96	0.04	0.79
	Acyclovir Tabs 200mg 25s	2	0.13	10.77 ± 9.14	21.54	0.07	0.54	3	0.15	23.93 ± 4.15	71.80	0.17	1.11
	Chloramphenicol Eye Oint 1% 3.5g							1	0.05	1.68 ± 0	1.68	0.00	0.08
	Amethocaine Cream 1% 25g							1	0.05	60.00 ± 0	60.00	0.14	**2.79**
	Antazoline Tetrahydrozoline Eye Drops 10ml							3	0.15	4.73 ± 0	14.18	0.03	0.22
	Acetic Acid Ear Drops 1% in normal saline 10ml							1	0.05	2.75 ± 0	2.75	0.01	0.13
	Neomycin Polymixin Hydrocortisone Ear Drops 10ml							1	0.05	32.63 ± 0	32.63	0.08	1.52
	Sodium Chloride Nose Drops 0.9% 10ml							3	0.15	2.75 ± 0	8.25	0.02	0.13
	Arachis Oil, Paradichlorbenzene chlorbut 10ml	1	0.07	17.00 ± 0	17.00	0.06	0.85						
	Betamethasone Valerate Cream 0.1% 15g							2	0.10	1.90 ± 0	3.80	0.01	0.09
	Medroxyprogesterone Tabs 5mg 30s							2	0.10	56.96 ± 0	113.92	0.27	**2.65**

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Oestrogens Conj Tabs 0.3mg 28s	1	0.07	14.66 ± 0	14.66	0.05	0.73						
	Oestrogens Conj Tabs 0.625mg 28s	1	0.07	12.40 ± 0	12.40	0.04	0.62	4	0.20	12.40 ± 0	49.60	0.12	0.58
	Insulin Actraphane Hm 100Iu/ml 10ml	11	0.73	51.45 ± 31.70	565.95	1.89	**2.57**	14	0.70	89.11 ± 39.97	1247.56	2.92	**4.14**
	Insulin Actrapid Hm 100Iu/ml 10ml	5	0.33	0.61 ± 0.58	3.05	0.01	0.03	1	0.05	0.37 ± 0	0.37	0.00	0.02
	Insulin Protaphane Hm 100Iu/ml 3ml Penset							2	0.10	41.31 ± 0	82.63	0.19	1.92
	Insulin Needles 1s	6	0.40	6.82 ± 7.25	40.92	0.14	0.34	11	0.55	4.28 ± 2.21	47.09	0.11	0.20
	Gliclazide Tabs 80mg 56s	6	0.40	7.10 ± 2.48	42.59	0.14	0.35	4	0.20	9.13 ± 3.51	36.50	0.09	0.42
	Gliclazide Tabs 80mg 28s	9	0.60	1.16 ± 1.31	10.40	0.03	0.06	2	0.10	3.28 ± 0	6.55	0.02	0.15
	Metformin Tabs 850mg 56s	24	1.60	2.96 ± 3.50	70.93	0.24	0.15	10	0.50	5.41 ± 2.55	54.06	0.13	0.25
	Metformin Tabs 850mg 84s	6	0.40	9.30 ± 4.18	55.77	0.19	0.46	9	0.45	11.00 ± 0	99.00	0.23	0.51
	Thyroxine Sodium Tabs 50µg 100s	1	0.07	0.37 ± 0	0.37	0.00	0.02						
	Dexamethasone IM Inj 4mg/ml 1ml	2	0.13	10.24 ± 2.90	20.48	0.07	0.51	1	0.05	4.10 ± 0	4.10	0.01	0.19
	Fludrocortisone Acetate Tabs 0.1mg 100s							1	0.05	17.83 ± 0	17.83	0.04	0.83
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	9	0.60	91.12 ± 85.24	820.07	2.74	**4.56**	1	0.05	17.83 ± 0	17.83	0.04	0.83
	Methylprednisolone Inj 40mg/ml 1ml							2	0.10	14.83 ± 0	29.67	0.07	0.69
	Prednisone Tabs 5mg 28s	17	1.14	2.48 ± 1.84	42.15	0.14	0.12	62	3.12	2.08 ± 1.85	128.97	0.30	0.10
	Betamethasone Inj 4mg/ml 1ml							1	0.05	2.62 ± 0	2.62	0.01	0.12
	Carbamazepine CR Tabs 200mg 30s	15	1.00	14.84 ± 17.43	222.66	0.74	0.74	14	0.70	14.52 ± 11.47	203.33	0.48	0.68
	Carbamazepine CR Tabs 400mg 30s	8	0.53	27.30 ± 15.78	218.42	0.73	1.37	49	2.46	30.38 ± 11.57	1488.82	**3.48**	1.41
	Lamotrigine Tabs 25mg 60s	1	0.07	0.50 ± 0	0.50	0.00	0.02	1	0.05	30.00 ± 0	30.00	0.07	1.39
	Lorazepam Inj 4mg/ml 1ml	3	0.20	22.48 ± 7.79	67.45	0.23	1.12						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Lorazepam Tabs 1mg 100s							2	0.10	9.16 ± 4.32	18.32	0.04	0.43
	Phenobarbitone Tabs 30mg 28s	2	0.13	0.55 ± 0.68	1.10	0.00	0.03	4	0.20	2.57 ± 1.03	10.27	0.02	0.12
	Phenobarbitone Tabs 30mg 56s							6	0.30	3.29 ± 0	19.76	0.05	0.15
	Phenytoin Caps 100mg 84s	9	0.60	18.76 ± 13.40	168.83	0.56	0.94	5	0.25	26.04 ± 0.03	130.18	0.30	1.21
	Phenytoin Inj 50mg/ml 5ml	1	0.07	139.92 ± 0	139.92	0.47	**7.00**						
	Sodium Valproate Tabs 200mg 28s							1	0.05	19.59 ± 0	19.59	0.05	0.91
	Lamotrigine Tabs 25mg 28s							2	0.10	14.00 ± 0	28.00	0.07	0.65
	Bromocriptine Mesylate Tabs 2.5mg 30s							2	0.10	69.00 ± 0	138.00	0.32	**3.21**
	Fluphenazine Decanoate Inj 25mg/ml 1ml							1	0.05	8.82 ± 0	8.82	0.02	0.41
	Chlorpromazine Tabs 50mg 500s	3	0.20	1.36 ± 1.51	4.09	0.01	0.07	7	0.35	3.98 ± 1.51	27.88	0.07	0.19
	Chlorpromazine Tabs 100mg 500s							3	0.15	4.99 ± 0	14.98	0.04	0.23
	Haloperidol Inj 5mg/ml 1ml	3	0.20	57.79 ± 25.03	173.38	0.58	**2.89**						
	Haloperidol Tabs 5mg 14s	5	0.33	0.74 ± 0.82	3.72	0.01	0.04	1	0.05	2.04 ± 0	2.04	0.00	0.09
	Haloperidol Tabs 5mg 56s	1	0.07	2.55 ± 0	2.55	0.01	0.13	3	0.15	3.40 ± 1.47	10.20	0.02	0.16
	Chlorpromazine Tabs 25mg 28s	1	0.07	0.13 ± 0	0.13	0.00	0.01	6	0.30	1.79 ± 0	10.75	0.03	0.08
	Amitriptyline Tabs 25mg 28s	22	1.47	17.82 ± 18.60	391.96	1.31	0.89	33	1.66	20.62 ± 6.59	680.62	1.59	0.96
	Fluoxetine Caps 20mg 28s	10	0.67	1.33 ± 1.12	13.32	0.04	0.07	11	0.55	2.52 ± 0	27.72	0.06	0.12
	Imipramine Tabs 25mg 28s							1	0.05	25.80 ± 0	25.80	0.06	1.20
	Diazepam Inj 5mg/ml 2ml	4	0.27	0.92 ± 0.26	3.68	0.01	0.05	1	0.05	1.05 ± 0	1.05	0.00	0.05
	Diazepam Tabs 5mg 10s	3	0.20	0.14 ± 0.16	0.41	0.00	0.01	5	0.25	0.24 ± 0.11	1.20	0.00	0.01
	Orphenadrine Tabs 50mg 28s	4	0.27	3.96 ± 4.45	15.83	0.05	0.20	16	0.80	4.93 ± 0	78.80	0.18	0.23
	Albendazole Susp 100mg/5ml 20ml	1	0.07	5.84 ± 0	5.84	0.02	0.29						
	Albendazole Tabs 200mg 2s							3	0.15	7.79 ± 3.37	23.36	0.05	0.36

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Aluminium Hydroxide Susp 350ml	17	1.14	14.98 ± 12.16	254.63	0.85	0.75	14	0.70	27.33 ± 0.00	382.67	0.89	1.27
	Cimetidine IV Inj 100mg/ml 2ml	8	0.53	5.69 ± 6.77	45.54	0.15	0.28						
	Cimetidine Tabs 200mg 30s	5	0.33	0.78 ± 0.62	3.89	0.01	0.04	4	0.20	1.08 ± 0.42	4.32	0.01	0.05
	Cimetidine Tabs 400mg 60s	9	0.60	3.84 ± 4.40	34.53	0.12	0.19	7	0.35	5.54 ± 1.88	38.78	0.09	0.26
	Magnesium Trisillicate Co Mixt 200ml	1	0.07	0.11 ± 0	0.11	0.00	0.01						
	Misoprostol Tabs 0.2mg 60s							3	0.15	12.80 ± 1.30	38.41	0.09	0.60
	Omeprazole Caps 20mg 30s	4	0.27	16.47 ± 12.42	65.87	0.22	0.82	1	0.05	1.44 ± 0	1.44	0.00	0.07
	Metoclopramide Inj 5mg/ml 2ml	22	1.47	5.57 ± 6.42	122.48	0.41	0.28	6	0.30	2.13 ± 0	12.78	0.03	0.10
	Metoclopramide Tabs 10mg 15s	4	0.27	0.47 ± 0	1.89	0.01	0.02	8	0.40	1.00 ± 1.50	8.02	0.02	0.05
	Metoclopramide Tabs 10mg 10s	9	0.60	0.97 ± 0.78	8.70	0.03	0.05	6	0.30	1.95 ± 0.71	11.68	0.03	0.09
	Bismuth Sub Oxi Res Nic Zinc Oint 25g							1	0.05	13.40 ± 0	13.40	0.03	0.62
	Bismuth Sub Oxi Res Nic Ainc Supps 10s	1	0.07	14.07 ± 0	14.07	0.05	0.70						
	Bisacodyl Supps 10mg 10's	1	0.07	15.16 ± 0	15.16	0.05	0.76						
	Lactulose Syr 3.35mg/5ml 150ml	2	0.13	2.76 ± 1.61	5.52	0.02	0.14						
	Senna Tabs 7.5mg 12s							1	0.05	2.65 ± 0	2.65	0.01	0.12
	Loperamide Tabs 2mg 6s	6	0.40	0.52 ± 0.23	3.09	0.01	0.03	3	0.15	1.41 ± 0.49	4.24	0.01	0.07
	Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s							1	0.05	0.80 ± 0	0.80	0.00	0.04
	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	5	0.33	1.34 ± 0.50	6.70	0.02	0.07	4	0.20	1.12 ± 0	4.47	0.01	0.05
	Hyoscine-N-Butylbromide Tabs 10mg 10s	7	0.47	2.37 ± 1.46	16.57	0.06	0.12	3	0.15	3.79 ± 0.66	11.36	0.03	0.18
	Liquid Paraffin 200ml	3	0.20	3.39 ± 1.79	10.18	0.03	0.17	4	0.20	4.43 ± 0	17.71	0.04	0.21

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	2	0.13	0.76 ± 0	1.52	0.01	0.04	5	0.25	0.84 ± 0.42	4.18	0.01	0.04
	Thymol Glycerine B.P. Mouth wash 100ml							10	0.50	1.25 ± 0.21	12.50	0.03	0.06
	Ringers Lactate Sol 1000ml	9	0.60	12.29 ± 6.70	110.58	0.37	0.61						
	Sodium Chloride 0.9% for Irrigation 1000ml	1	0.07	1.29 ± 0	1.29	0.00	0.06	1	0.05	0.19 ± 0	0.19	0.00	0.01
	Sodium Chloride 0.9% Inj 1000ml	11	0.73	8.21 ± 1.30	90.35	0.30	0.41						
	Water for Inj 10ml	1	0.07	1.11 ± 0	1.11	0.00	0.06						
	Calcium Gluconate Tabs 300mg 28s							3	0.15	0.86 ± 0.59	2.57	0.01	0.04
	Potassium Chloride Slow Tabs 600mg 14s	12	0.80	2.33 ± 2.02	27.97	0.09	0.12	13	0.65	2.85 ± 0.73	37.04	0.09	0.13
	Potassium Citrate Mixture 100ml	2	0.13	2.35 ± 0	4.70	0.02	0.12						
	Thiamine IV Inj Vit B1 100mg/ml 10ml	2	0.13	1.78 ± 1.08	3.56	0.01	0.09						
	Thiamine Tabs 100mg 28s	10	0.67	1.70 ± 1.83	17.00	0.06	0.08	1	0.05	4.33 ± 0	4.33	0.01	0.20
	Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	3	0.20	7.91 ± 0	23.74	0.08	0.40	28	1.41	8.17 ± 1.51	228.66	0.53	0.38
	Vitamin B Co Inj 10ml (IM)	2	0.13	2.59 ± 1.97	5.18	0.02	0.13						
	Vitamin B Co Strong Tabs 28s	25	1.67	0.35 ± 0.37	8.87	0.03	0.02	32	1.61	0.79 ± 0.30	25.42	0.06	0.04
	Vitamin B Co Syr 100ml	1	0.07	0.05 ± 0	0.05	0.00	0.00						
	Vitamin B6 Tabs 25mg 28s	35	2.34	1.24 ± 1.47	43.52	0.15	0.06	29	1.46	1.99 ± 0	57.74	0.13	0.09
	Vitamin C Tabs 100mg 28s	2	0.13	0.04 ± 0.02	0.08	0.00	0.00	3	0.15	0.72 ± 0	2.17	0.01	0.03
	Vitamin C Tabs 250mg 100s	5	0.33	1.48 ± 0.95	7.39	0.02	0.07	11	0.55	1.02 ± 0.22	11.26	0.03	0.05
	Vitamin Multiple Syr 100ml	1	0.07	0.09 ± 0	0.09	0.00	0.00						
	Vitamin Multiple Tabs 28s	78	5.21	0.39 ± 0.34	30.24	0.10	0.02	100	5.03	0.56 ± 0.30	56.15	0.13	0.03
	Bettaway Children's Own Tabs 60s	1	0.07	7.87 ± 0	7.87	0.03	0.39						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Destrose Sol for IV Infus 50% 500ml	1	0.07	17.68 ± 0	17.68	0.06	0.88						
	Lignocaine Gel 2% 20g							1	0.05	14.90 ± 0	14.90	0.03	0.69
	Allopurinol Tabs 300mg 30s	1	0.07	0.28 ± 0	0.28	0.00	0.01	1	0.05	12.66 ± 0	12.66	0.03	0.59
	Aspirin Soluble Tabs 300mg 14s	25	1.67	0.91 ± 0.72	22.76	0.08	0.05	43	2.16	1.55 ± 0.37	66.56	0.16	0.07
	Colchicine Tabs 1mg 60s							1	0.05	10.72 ± 0	10.72	0.03	0.50
	Diclofenac Inj 25mg/ml 3ml	14	0.94	404.16 ± 461.34	5658.23	**18.90**	**20.21**	36	1.81	115.47 ± 0	4157.06	**9.72**	**5.37**
	Diclofenac Tabs 25mg 42s	2	0.13	5.22 ± 0	10.44	0.03	0.26	31	1.56	7.44 ± 2.83	230.74	0.54	0.35
	Ibuprofen Tabs 200mg 15s	71	4.74	1.36 ± 0.61	96.76	0.32	0.07	115	5.78	1.79 ± 1.01	205.39	0.48	0.08
	Methyl Salicylate In Vaseline Oint 10% 25g	2	0.13	0.64 ± 0	1.29	0.00	0.03	30	1.51	0.64 ± 0	19.32	0.05	0.03
	Paracetamol Codeine Phos Tabs 500mg/8mg 20s	2	0.13	69.28 ± 65.32	138.57	0.46	**3.46**	12	0.60	115.47 ± 0	1385.69	**3.24**	**5.37**
	Paracetamol Tabs 500mg 10s	125	8.35	0.94 ± 0.84	117.33	0.39	0.05	196	9.85	0.96 ± 0.24	189.07	0.44	0.04
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	13	0.87	5.25 ± 0.46	68.19	0.23	0.26	13	0.65	5.20 ± 0.75	67.65	0.16	0.24
	Ibuprofen Tabs 200mg 30s	1	0.07	1.86 ± 0	1.86	0.01	0.09						
	Diclofenac Tabs 25mg 28s	4	0.27	0.40 ± 0.32	1.62	0.01	0.02	12	0.60	3.37 ± 1.23	40.46	0.09	0.16
	Codeine Phosphate Tabs 30mg 100s	5	0.33	12.32 ± 5.81	61.60	0.21	0.62						
	Morphine Sulphate IV Inj 15mg 1ml	3	0.20	0.91 ± 0.99	2.74	0.01	0.05						
	Pethidine IM Inj 50mg/ml 1ml 10s	5	0.33	6.04 ± 5.20	30.20	0.10	0.30						
	Pethidine IM Inj 100mg/2ml 1ml 10s	6	0.40	16.69 ± 15.34	100.15	0.33	0.83						
	Chloroquine Tabs 150mg 100s							1	0.05	1.68 ± 0	1.68	0.00	0.08
	Vaccine Tetanus Adosrbed 10 dose 10ml							2	0.10	1.06 ± 0	2.12	0.00	0.05
	Beclomethasone MDI 100mg 200 dose	2	0.13	20.36 ± 28.50	40.71	0.14	1.02	1	0.05	40.51 ± 0	40.51	0.09	1.88

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Budesonide MDI 200mg 300 dose	1	0.07	49.02 ± 0	49.02	0.16	**2.45**						
	Fenoterol Inhaler Complete 100	1	0.07	0.33 ± 0	0.33	0.00	0.02						
	Fenoterol UDV 0.5mg/2ml 60s	1	0.07	56.82 ± 0	56.82	0.19	**2.84**	2	0.10	28.88 ± 39.51	57.76	0.14	1.34
	Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s							1	0.05	1.85 ± 0	1.85	0.00	0.09
	Salbutamol MDI Complete 100mg 200 dose	5	0.33	18.95 ± 7.06	94.73	0.32	0.95	2	0.10	15.79 ± 0	31.58	0.07	0.73
	Salbutamol Syr 2mg/5ml 150ml							1	0.05	5.59 ± 0	5.59	0.01	0.26
	Salbutamol Tabs 2mg 28s							1	0.05	2.99 ± 0	2.99	0.01	0.14
	Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	2	0.13	29.12 ± 20.60	58.23	0.19	1.46	3	0.15	15.52 ± 24.39	46.57	0.11	0.72
	Theophylline Syr 200ml	15	1.00	4.49 ± 1.66	67.28	0.22	0.22	12	0.60	5.40 ± 0	64.85	0.15	0.25
	Theophylline Syr 25mg/5ml 500ml	1	0.07	3.02 ± 0	3.02	0.01	0.15						
	Theophylline Anhydrous Tabs 200mg 60s	3	0.20	8.28 ± 6.03	24.85	0.08	0.41						
	Theophylline Anhydrous Tabs 250mg 56s	2	0.13	1.53 ± 1.18	3.06	0.01	0.08						
	Mist Expectorant Stim Syr Adult 200ml	7	0.47	1.53 ± 0.69	10.73	0.04	0.08	6	0.30	2.41 ± 0	14.46	0.03	0.11
	Mist Tussi Infants Mist 100ml	1	0.07	0.12 ± 0	0.12	0.00	0.01	1	0.05	1.71 ± 0	1.71	0.00	0.08
	Rifampicin Caps 150mg 100s	3	0.20	7.47 ± 3.56	22.41	0.07	0.37						
	Rifampicin 150mg, Isoniazid 75mg Tabs 60s	5	0.33	33.97 ± 26.83	169.85	0.57	1.70	1	0.05	29.63 ± 0	29.63	0.07	1.38
	Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	23	1.54	24.99 ± 22.13	574.75	1.92	1.25	9	0.45	43.28 ± 8.05	389.55	0.91	**2.01**
	Streptomycin Sulphate Inj 5g/15ml	3	0.20	4.56 ± 2.85	13.68	0.05	0.23						
	Pseudoephedrine Tabs 60mg 20s							1	0.05	2.35 ± 0	2.35	0.01	0.11

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>40≤60	Chlorpheniramine Mal Tabs 4mg 30s	9	0.60	1.74 ± 0.45	15.62	0.05	0.09	20	1.01	2.09 ± 0.32	41.71	0.10	0.10
	Promethazine Inj 25mg/ml 2ml							3	0.15	2.00 ± 0	6.00	0.01	0.09
	Promethazine Tabs 25mg 500s							4	0.20	3.49 ± 2.44	13.95	0.03	0.16
	Total	**1497**	**100**		**29941.98**	**100**		**1989**	**100**		**42784.67**	**100**	
>60	Amoxycillin Caps 250mg 15s	1	0.09	1.82 ± 0	1.82	0.01	0.11						
	Amoxycillin Caps 500mg 15s	9	0.82	3.56 ± 1.59	32.02	0.17	0.21	6	0.75	3.46 ± 0	20.74	0.17	0.22
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	6	0.55	106.14 ± 79.48	636.86	**3.45**	**6.33**						
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml							1	0.12	2.61 ± 0	2.61	0.02	0.17
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	18	1.64	17.58 ± 2.19	316.36	1.71	1.05	7	0.87	16.32 ± 5.65	113.82	0.91	1.04
	Ampicillin Inj 500mg	18	1.64	100.63 ± 94.82	1811.30	**9.81**	**6.00**	2	0.25	16.32 ± 0	32.64	0.26	1.05
	Benzathine Penicillin G Inj. 2.4Mu Vials							1	0.12	11.98 ± 0	11.98	0.10	0.77
	Benzylpenicillin G Inj 1Mu 50s	1	0.09	40.32 ± 0	40.32	0.22	**2.40**						
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	2	0.18	180.16 ± 109.19	360.32	1.95	**10.74**						
	Ciprofloxacin Tabs 500mg 10s	10	0.91	1.38 ± 0.78	13.75	0.07	0.08	9	1.12	2.15 ± 0.83	19.36	0.15	0.14
	Cloxacillin IV Inj 500mg	4	0.36	109.70 ± 52.33	438.78	2.38	**6.54**						
	Flucloxacillin Caps 250mg 20s	10	0.91	12.28 ± 6.98	122.82	0.67	0.73	1	0.12	23.39 ± 0	23.39	0.19	1.50
	Gentamicin Inj 80mg/2ml 2ml	12	1.09	13.85 ± 5.99	166.14	0.90	0.83						
	Ketoconazole Tabs 200mg 30s							1	0.12	27.75 ± 0	27.75	0.22	1.78
	Nalidixic Acid Tabs 500mg 100s	3	0.27	25.95 ± 5.29	77.85	0.42	1.55	3	0.37	45.83 ± 0.07	137.50	1.10	**2.94**
	Nitrofurantoin Caps 100mg 50s	2	0.18	28.88 ± 5.83	57.75	0.31	1.72						
	Phenoxymethyl Penicillin Tabs 250mg 20s	1	0.09	5.16 ± 0	5.16	0.03	0.31						
	Phenoxymethyl Penicillin Tabs 250mg 100s							1	0.12	10.04 ± 0	10.04	0.08	0.64

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Nitrofurantoin Caps 100mg 30s							3	0.37	21.97 ± 3.25	65.91	0.53	1.41
	Ceftriaxone Inj 1g	6	0.55	32.35 ± 19.17	194.10	1.05	1.93	1	0.12	9.24 ± 0	9.24	0.07	0.59
	Co-trimoxazole Tabs 480mg 20s	5	0.45	1.19 ± 0.84	5.93	0.03	0.07	4	0.50	2.02 ± 0.45	8.09	0.06	0.13
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	2	0.18	4.53 ± 0	9.06	0.05	0.27	2	0.25	4.53 ± 0	9.06	0.07	0.29
	Doxycycline Caps 100mg 14s	4	0.36	0.97 ± 0.67	3.89	0.02	0.06	3	0.37	1.55 ± 0	4.66	0.04	0.10
	Erythromycin Tabs 250mg 20s	1	0.09	14.28 ± 0	14.28	0.08	0.85						
	Metronidazole IV Inj 500mg/ml 100ml	18	1.64	0.22 ± 0.13	4.00	0.02	0.01						
	Metronidazole Tabs 200mg 21s	15	1.36	1.50 ± 0.71	22.43	0.12	0.09	5	0.62	2.02 ± 0.50	10.08	0.08	0.13
	Nevirapine Tabs 200mg 60s	1	0.09	0.33 ± 0	0.33	0.00	0.02						
	Nystatin Oral Susp 100 000Iu 20ml	5	0.45	1.12 ± 1.10	5.59	0.03	0.07	2	0.25	3.99 ± 0	7.98	0.06	0.26
	Methotrexate Tabs 2.5mg 100s							1	0.12	0.13 ± 0	0.13	0.00	0.01
	Atenolol Tabs 50mg 28s	15	1.36	1.07 ± 0.97	16.10	0.09	0.06	1	0.12	2.07 ± 0	2.07	0.02	0.13
	Atenolol Tabs 100mg 28s							2	0.25	3.12 ± 0	6.24	0.05	0.20
	Enalapril Tabs 5mg 28s	1	0.09	32.59 ± 0	32.59	0.18	1.94						
	Enalapril Tabs 10mg 28s	8	0.73	1.52 ± 1.04	12.15	0.07	0.09	23	2.87	2.33 ± 0.28	53.60	0.43	0.15
	Enalapril Tabs 20mg 28s	5	0.45	1.70 ± 1.74	8.50	0.05	0.10	7	0.87	3.60 ± 0	25.23	0.20	0.23
	Furosemide Tabs 40mg 28s	14	1.27	30.68 ± 29.35	429.49	2.33	1.83	16	2.00	33.31 ± 21.73	532.99	**4.27**	**2.14**
	Furosemide Tabs 40mg 84s	1	0.09	4.08 ± 0	4.08	0.02	0.24						
	Furosemide Inj 10mg/ml 2ml	10	0.91	7.08 ± 7.53	70.83	0.38	0.42						
	Furosemide Inj 10mg/ml 25ml	1	0.09	10.61 ± 0	10.61	0.06	0.63						
	Hydrochlorothiazide Tabs 25mg 14s	13	1.18	8.05 ± 2.91	104.65	0.57	0.48	1	0.12	9.24 ± 0	9.24	0.07	0.59
	Hydrochlorothiazide Tabs 25mg 28s	28	2.55	0.52 ± 0.42	14.45	0.08	0.03	55	6.87	1.03 ± 0.81	56.69	0.45	0.07
	Indapamide Tabs 2.5mg 30s	13	1.18	0.46 ± 0.61	6.01	0.03	0.03	6	0.75	4.08 ± 1.27	24.50	0.20	0.26
	Nifedipine Caps 5mg 100s	5	0.45	0.36 ± 0.18	1.79	0.01	0.02	1	0.12	0.16 ± 0	0.16	0.00	0.01
	Nifedipine Tabs SR 30mg 28s	16	1.45	13.86 ± 9.81	221.76	1.20	0.83	16	2.00	22.11 ± 0	353.82	2.83	1.42
	Nifedipine Tabs SR 60mg 28s	8	0.73	48.68 ± 41.51	389.43	2.11	**2.90**	21	2.62	58.11 ± 8.25	1220.35	**9.77**	**3.73**

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Perindopril Tabs 4mg 28s	60	5.45	5.78 ± 5.54	346.79	1.88	0.34	35	4.37	14.18 ± 4.92	496.39	**3.97**	0.91
	Prazosin Tabs 1mg 14s	1	0.09	28.39 ± 0	28.39	0.15	1.69	6	0.75	14.20 ± 5.18	85.18	0.68	0.91
	Prazosin Tabs 5mg 30s							3	0.37	165.17 ± 0	495.50	**3.97**	**10.59**
	Propranolol Tabs 10mg 60's	2	0.18	0.38 ± 0.39	0.77	0.00	0.02						
	Spironolactone Tabs 25mg 240s	1	0.09	13.30 ± 0	13.30	0.07	0.79	2	0.25	67.43 ± 0	134.87	1.08	**4.32**
	Spironolactone Tabs 25mg 14s	3	0.27	2.37 ± 2.06	7.12	0.04	0.14						
	Digoxin Tabs 0.25mg 14s	6	0.55	1.52 ± 1.47	9.15	0.05	0.09	7	0.87	67.43 ± 55.07	30.33	0.24	0.28
	Digoxin Tabs 0.25mg 28s	1	0.09	4.07 ± 0	4.07	0.02	0.24	3	0.37	4.07 ± 0	12.21	0.10	0.26
	Enoxaparin Prefilled Syr SC 40mg/0.4ml	5	0.45	47.60 ± 34.84	238.00	1.29	**2.84**						
	Streptokinase Inj 1 500 000Iu							1	0.12	1.00 ± 0	1.00	0.01	0.06
	Tranexamic Acid Inj 100mg/ml 5ml 5s	3	0.27	51.05 ± 22.11	153.16	0.83	**3.04**						
	Tranexamic Acid Tabs 500mg 60s	1	0.09	16.05 ± 0	16.05	0.09	0.96						
	Warfarin Sodium Tabs 5mg 28s							5	0.62	21.79 ± 3.48	108.96	0.87	1.40
	Warfarin Sodium Tabs 5mg 14s	1	0.09	7.78 ± 0	7.78	0.04	0.46						
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	20	1.82	0.84 ± 0.65	16.70	0.09	0.05	2	0.25	1.74 ± 0.82	3.47	0.03	0.11
	Ferrous Sulphate Co Tabs eq 65mg Fe 84s	1	0.09	4.17 ± 0	4.17	0.02	0.25	2	0.25	4.17 ± 0	8.34	0.07	0.27
	Folic Acid Tabs 5mg 28s	18	1.64	0.57 ± 0.44	10.29	0.06	0.03	1	0.12	1.00 ± 0	1.00	0.01	0.06
	Simvastatin Tabs 10mg 28s							1	0.12	6.62 ± 0	6.62	0.05	0.42
	Simvastatin Tabs 20mg 28s	3	0.27	3.89 ± 4.99	11.66	0.06	0.23	1	0.12	9.60 ± 0	9.60	0.08	0.62
	Clotrimazole Cream 1% 20g							1	0.12	2.55 ± 0	2.55	0.02	0.16
	Mupirocin Topical Oint 2% 15g	2	0.18	16.53 ± 0	33.06	0.18	0.99						
	Calamine Lotion 100ml							1	0.12	1.22 ± 0	1.22	0.01	0.08
	Indomethacin Caps 25mg 28s	2	0.18	0.78 ± 0.37	1.57	0.01	0.05	8	1.00	1.44 ± 0.78	11.48	0.09	0.09
	Sulfasalazine Tabs 500mg 100s							1	0.12	25.46 ± 0	25.46	0.20	1.63
	Aqueous Cream 100g	2	0.18	1.02 ± 0	2.03	0.01	0.06	1	0.12	1.02 ± 0	1.02	0.01	0.07
	Povidone Iodine Oint 25g	2	0.18	1.72 ± 0	3.45	0.02	0.10						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Acyclovir Tabs 200mg 25s							4	0.50	24.41 ± 11.06	97.65	0.78	1.57
	Chloramphenicol Eye Drops 0.5% 10ml							2	0.25	29.82 ± 0	59.63	0.48	1.91
	Antazoline Tetrahydrozoline Eye Drops 10ml							4	0.50	4.73 ± 0	18.91	0.15	0.30
	Acetic Acid Ear Drops 1% in normal saline 10ml							2	0.25	2.73 ± 0	5.50	0.04	0.18
	Acetic Acid Ear Drops 2% in alcohol							1	0.12	6.43 ± 0	6.43	0.05	0.41
	Sodium Chloride Nose Drops 0.9% 10ml							1	0.12	2.75 ± 0	2.75	0.02	0.18
	Betamethasone Valerate Cream 0.1% 15g	1	0.09	1.90 ± 0	1.90	0.01	0.11						
	Oestrogens Conj Tabs 0.625mg 28s							4	0.50	12.40 ± 0	49.60	0.40	0.80
	Insulin Actraphane Hm 100Iu/ml 10ml	3	0.27	73.39 ± 0	220.16	1.19	**4.37**						
	Insulin Actraphane Hm 100Iu/ml 3ml Penset	6	0.55	58.53 ± 24.15	351.17	1.90	**3.49**						
	Insulin Actrapid Hm 100Iu/ml 10ml	1	0.09	0.37 ± 0	0.37	0.00	0.02						
	Insulin Needles 1s	7	0.64	3.86 ± 0	27.02	0.15	0.23						
	Gliclazide Tabs 80mg 56s	8	0.73	7.61 ± 2.82	60.84	0.33	0.45	9	1.12	8.11 ± 3.04	73.01	0.58	0.52
	Gliclazide Tabs 80mg 28s	7	0.64	1.25 ± 1.40	8.76	0.05	0.07						
	Metformin Tabs 850mg 56s	18	1.64	3.86 ± 3.62	69.49	0.38	0.23	3	0.37	4.08 ± 0	12.24	0.10	0.26
	Metformin Tabs 850mg 84s	8	0.73	11.00 ± 0	88.00	0.48	0.66	12	1.50	10.39 ± 2.13	124.63	1.00	0.67
	Glucagon Inj 1mg 1ml	3	0.27	1097.74 ± 914.63	3293.22	**17.84**	**65.41**						
	Thyroxine Sodium Tabs 100µg 28s	9	0.82	5.76 ± 2.62	51.87	0.28	0.34						
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	2	0.18	26.74 ± 12.61	53.48	0.29	1.59	6	0.75	26.74 ± 9.76	160.45	1.28	1.71
	Methylprednisolone Inj 40mg/ml 1ml							1	0.12	14.83 ± 0	14.83	0.12	0.95

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Methylprednisolone Inj 40mg/ml 2ml							1	0.12	8.17 ± 0	8.17	0.07	0.52
	Prednisone Tabs 5mg 28s	14	1.27	2.06 ± 2.45	28.84	0.16	0.12	17	2.12	3.60 ± 2.58	61.27	0.49	0.23
	Carbamazepine CR Tabs 200mg 30s	7	0.64	15.73 ± 7.44	110.11	0.60	0.94	12	1.50	13.96 ± 6.97	167.53	1.34	0.90
	Carbamazepine CR Tabs 400mg 30s							1	0.12	35.81 ± 0	35.81	0.29	**2.30**
	Lorazepam Tabs 2.5mg 100s							1	0.12	6.02 ± 0	6.02	0.05	0.39
	Phenobarbitone Tabs 30mg 28s	4	0.36	0.39 ± 0.50	1.54	0.01	0.02						
	Phenobarbitone Tabs 30mg 56s	5	0.45	2.96 ± 0.74	14.82	0.08	0.18	2	0.25	4.94 ± 0	9.88	0.08	0.32
	Phenytoin Caps 100mg 84s	8	0.73	20.01 ± 11.21	160.09	0.87	1.19						
	Phenytoin Inj 50mg/ml 5ml	1	0.09	93.28 ± 0	93.28	0.51	**5.56**						
	Lamotrigine Tabs 25mg 28s							1	0.12	14.00 ± 0	14.00	0.11	0.90
	Carbidopa 25mg & Levodopa 250mg 100s	3	0.27	39.89 ± 50.81	119.68	0.65	**2.38**						
	Pramipexol Tabs 0.25mg 100s							1	0.12	8.82 ± 0	8.82	0.07	0.57
	Trihexyphenidyl Tabs 2mg 100s	6	0.55	0.08 ± 0.04	0.47	0.00	0.00						
	Chlorpromazine Tabs 25mg 28s	4	0.36	1.79 ± 0	7.16	0.04	0.11	1	0.12	1.79 ± 0	1.79	0.01	0.11
	Amitriptyline Tabs 25mg 28s	16	1.45	12.61 ± 11.79	201.83	1.09	0.75	21	2.62	20.59 ± 0.87	432.46	**3.46**	1.32
	Fluoxetine Caps 20mg 28s	7	0.64	1.58 ± 1.17	11.07	0.06	0.09	2	0.25	2.52 ± 0	5.04	0.04	0.16
	Diazepam Inj 5mg/ml 2ml	2	0.18	1.58 ± 0.74	3.15	0.02	0.09	1	0.12	1.05 ± 0	1.05	0.01	0.07
	Diazepam Tabs 5mg 10s	4	0.36	0.12 ± 0.04	0.47	0.00	0.01						
	Naloxone Inj 0.4mg/ml 1ml							1	0.12	1.40 ± 0	1.40	0.01	0.09
	Orphenadrine Tabs 50mg 28s	1	0.09	1.05 ± 0	1.05	0.01	0.06						
	Albendazole Tabs 200mg 2s	3	0.27	5.84 ± 0	17.52	0.09	0.35						
	Aluminium Hydroxide Susp 350ml	19	1.73	18.49 ± 10.83	351.28	1.90	1.10	7	0.87	27.33 ± 0	191.33	1.53	1.75
	Cimetidine IV Inj 100mg/ml 2ml	9	0.82	12.43 ± 7.51	111.87	0.61	0.74						
	Cimetidine Tabs 200mg 30s	2	0.18	0.07 ± 0.03	0.14	0.00	0.00	2	0.25	2.16 ± 1.02	4.32	0.03	0.14

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Cimetidine Tabs 400mg 60s	8	0.73	2.80 ± 2.19	22.42	0.12	0.17	1	0.12	3.53 ± 0	3.53	0.03	0.23
	Ranitidine HCl Tabs 300mg 30s	1	0.09	12.26 ± 0	12.26	0.07	0.73						
	Omeprazole Caps 20mg 30s	1	0.09	46.06 ± 0	46.06	0.25	**2.74**						
	Cinnarizine Tabs 25mg 100s							1	0.12	2.56 ± 0	2.56	0.02	0.16
	Metoclopramide Inj 5mg/ml 2ml	18	1.64	9.82 ± 10.59	176.79	0.96	0.59						
	Metoclopramide Tabs 10mg 15s	2	0.18	0.47 ± 0	0.94	0.01	0.03	2	0.25	0.47 ± 0	0.94	0.01	0.03
	Prochlorperazine Inj 12.5mg/ml 1ml	1	0.09	3.84 ± 0	3.84	0.02	0.23						
	Sucralfate Tabs 1g 120s	7	0.64	2.00 ± 2.88	14.02	0.08	0.12	1	0.12	1.30 ± 0	1.30	0.01	0.08
	Bismuth Sub Oxi Res Nic Ainc Supps 10s							3	0.37	14.07 ± 0	42.21	0.34	0.90
	Lactulose Syr 3.35mg/5ml 150ml	2	0.18	22.70 ± 9.23	45.41	0.25	1.35						
	Senna Tabs 7.5mg 12s	2	0.18	2.20 ± 0.64	4.40	0.02	0.13						
	Loperamide Tabs 2mg 6s	4	0.36	0.49 ± 0.41	1.98	0.01	0.03	4	0.50	1.06 ± 0.42	4.24	0.03	0.07
	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	3	0.27	3.72 ± 2.33	11.17	0.06	0.22						
	Hyoscine-N-Butylbromide Tabs 10mg 10s	2	0.18	3.07 ± 0.48	6.13	0.03	0.18						
	Hyoscine-N-Butylbromide Inj 50mg/ml							1	0.12	3.50 ± 0	3.50	0.03	0.22
	Hyoscine-N-Butylbromide Tabs 10mg 15s							1	0.12	1.12 ± 0	1.12	0.01	0.07
	Liquid Paraffin 200ml	2	0.18	1.22 ± 0.16	2.44	0.01	0.07	1	0.12	4.43 ± 0	4.43	0.04	0.28
	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	1	0.09	0.76 ± 0	0.76	0.00	0.05	2	0.25	0.38 ± 0	0.76	0.01	0.02
	Thymol Glycerine B.P. Mouth wash 100ml	2	0.18	1.18 ± 0	2.37	0.01	0.07	1	0.12	1.18 ± 0	1.18	0.01	0.08
	Ringers Lactate Sol 1000ml	9	0.82	21.22 ± 26.81	191.01	1.03	1.26						

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Sodium Chloride 0.9% Inj 1000ml	5	0.45	13.77 ± 11.55	68.85	0.37	0.82						
	Calcium Gluconate Tabs 300mg 28s	3	0.27	0.86 ± 0.59	2.57	0.01	0.05	4	0.50	0.77 ± 0.51	3.08	0.02	0.05
	Magnesium Chloride Tabs 500-700mg 100s	1	0.09	16.61 ± 0	16.61	0.09	0.99						
	Potassium Chloride Slow Tabs 600mg 14s	17	1.55	1.49 0 ± 1.74	25.41	0.14	0.09	12	1.50	2.98 ± 1.15	35.72	0.29	0.19
	Potassium Citrate Mixture 100ml	9	0.82	1.54 ± 0.98	13.88	0.08	0.09	1	0.12	2.35 ± 0	2.35	0.02	0.15
	Thiamine IV Inj Vit B1 100mg/ml 10ml	1	0.09	5.09 ± 0	5.09	0.03	0.30						
	Vitamin B Co Inj 10ml (IM)	2	0.18	1.20 ± 0	2.39	0.01	0.07						
	Vitamin B Co Strong Tabs 28s	26	2.36	0.45 ± 0.48	11.70	0.06	0.03	13	1.62	0.79 ± 0.20	10.30	0.08	0.05
	Vitamin B6 Tabs 25mg 28s	13	1.18	0.78 ± 0.84	10.17	0.06	0.05	3	0.37	1.99 ± 0	5.97	0.05	0.13
	Vitamin C Tabs 100mg 28s	2	0.18	0.37 ± 0.49	0.75	0.00	0.02						
	Vitamin C Tabs 250mg 100s	3	0.27	1.03 ± 0.79	3.09	0.02	0.06	1	0.12	2.41 ± 0	2.41	0.02	0.15
	Vitamin Multiple Syr 100ml							2	0.25	0.78 ± 0.54	1.56	0.01	0.05
	Vitamin Multiple Tabs 28s	55	5.00	0.34 ± 0.31	18.81	0.10	0.02	28	3.50	0.69 ± 1.10	19.40	0.16	0.04
	Dextrose Sol for IV Infus 5% 1000ml	2	0.18	7.30 ± 0	14.60	0.08	0.44						
	Sodium Alginate in a Hydro-active base 50g	1	0.09	129.60 ± 0	129.60	0.70	**7.72**						
	Lignocaine Gel 2% 20g							3	0.37	14.90 ± 0	44.71	0.36	0.96
	Allopurinol Tabs 300mg 30s	1	0.09	6.33 ± 0	6.33	0.03	0.38	1	0.12	6.33 ± 0	6.33	0.05	0.41
	Aspirin Soluble Tabs 300mg 14's	42	3.82	0.81 ± 0.69	34.05	0.18	0.05	39	4.87	1.62 ± 0.25	63.28	0.51	0.10
	Colchicine Tabs 1mg 60s	3	0.27	31.04 ± 32.43	93.13	0.50	1.85						
	Diclofenac Inj 25mg/ml 3ml	17	1.55	278.50 ± 288.85	4734.43	**25.65**	**16.60**	19	2.37	115.47 ± 0	2194.01	**17.56**	**7.40**
	Diclofenac Tabs 25mg 42s	8	0.73	8.28 ± 3.42	42.23	0.23	0.31	7	0.87	6.71 ± 2.55	46.98	0.38	0.43
	Ibuprofen Tabs 200mg 15s	47	4.27	1.20 ± 0.66	56.21	0.30	0.07	49	6.12	1.77 ± 0.66	86.49	0.69	0.11
	Methyl Salicylate In Vaseline Oint 10% 25g	12	1.09	0.64 ± 0	7.73	0.04	0.04	32	4.00	0.64 ± 0	20.61	0.16	0.04

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Paracetamol Codeine Phos Tabs 500mg/8mg 20s	2	0.18	43.30 ± 28.58	86.61	0.47	**2.58**	8	1.00	173.21 ± 106.91	1385.69	**11.09**	**11.11**
	Paracetamol Syr 120mg/5ml 50ml							1	0.12	2.20 ± 0	2.20	0.02	0.14
	Paracetamol Tabs 500mg 10s	95	8.64	0.93 ± 0.60	87.99	0.48	0.06	96	11.99	0.99 ± 0.16	95.05	0.76	0.06
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	6	0.55	5.41 ± 0	32.47	0.18	0.32	5	0.62	6.49 ± 2.42	32.47	0.26	0.42
	Diclofenac Tabs 25mg 28s	3	0.27	2.61 ± 2.05	7.82	0.04	0.16	11	1.37	4.33 ± 3.50	47.60	0.38	0.28
	Codeine Phosphate Tabs 30mg 100s	12	1.09	14.00 ± 4.30	168.00	0.91	0.83						
	Morphine Sulphate IV Inj 15mg 1ml	1	0.09	2.06 ± 0	2.06	0.01	0.12						
	Morphine Sulphate Tabs 30mg 60s	1	0.09	10.01 ± 0	10.01	0.05	0.60						
	Pethidine IM Inj 50mg/ml 1ml 10s	4	0.36	3.50 ± 2.38	14.00	0.08	0.21	1	0.12	1.00 ± 0	1.00	0.01	0.06
	Pethidine IM Inj 100mg/2ml 1ml 10s	2	0.18	30.60 ± 19.67	61.20	0.33	1.82	1	0.12	5.56 ± 0	5.56	0.04	0.36
	Vaccine Immunoglobulin Human Anti-Rabies 150Iu							1	0.12	324.37 ± 0	324.37	2.60	**20.80**
	Vaccine Rabies 2.5 Iu/dose Single dose							5	0.62	324.37 ± 0	1621.84	**12.98**	**20.80**
	Beclomethasone MDI 100mg 200 dose							4	0.50	40.51 ± 0	162.03	1.30	**2.60**
	Salbutamol MDI Complete 100mg 200 dose	2	0.18	15.79 ± 0	31.58	0.17	0.94	11	1.37	15.79 ± 0	173.68	1.39	1.01
	Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s							1	0.12	1.31 ± 0	1.31	0.01	0.08
	Salmeterol Accuhaler 0.05mg 60 Dose							2	0.25	15.79 ± 0	31.58	0.25	1.01
	Theophylline Syr 200ml	8	0.73	4.90 ± 1.43	39.18	0.21	0.29	8	1.00	5.40 ± 0	43.23	0.35	0.35
	Theophylline Anhydrous Tabs 200mg 60s	2	0.18	6.75 ± 8.68	13.49	0.07	0.40	6	0.75	16.87 ± 3.76	101.22	0.81	1.08

Appendix D.26: Average cost per medicine item according to therapeutic codes and age groups (continue)

Age group (years)	Therapeutic group	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & std dev	R	%**		n	%*	Mean & std dev	R	%**	
>60	Theophylline Anhydrous Tabs 250mg 56s	1	0.09	6.60 ± 0	6.60	0.04	0.39	3	0.37	13.20 ± 0	39.60	0.32	0.85
	Mist Expectorant Stim Syr Adult 200ml	4	0.36	2.41 ± 0	9.64	0.05	0.14	2	0.25	2.41 ± 0	4.82	0.04	0.15
	Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	3	0.27	4.20 ± 2.10	12.59	0.07	0.25						
	Chlorpheniramine Mal Tabs 4mg 30s	5	0.45	1.05 ± 0.56	5.25	0.03	0.06						
	Total	**1100**	**100**		**18459.58**	**100**		**801**	**100**		**12491.77**	**100**	

* Percentage was calculated for therapeutic codes according to the total number of medicine items dispenced for inpatients and outpatietns in the different age groups respectively

** Percentage was calculated for therapeutic codes according to the total cost for inpatients and outpatients in the different age groups respectively

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Diarrhoea, infective / food poisoning	Amoxycillin Caps 500mg 15s	2	1.06	3.80 ± 0.49	7.60	0.21	0.20	2	8.33	3.46 ± 0	6.91	8.09	0.97
	Amoxycillin Susp 125mg/5ml 100ml	5	2.66	1.49 ± 1.09	7.45	0.21	0.08						
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	4	2.13	138.67 ± 98.35	554.69	15.68	**7.37**						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	5	2.66	18.39 ± 0	91.97	2.60	0.98	1	4.17	18.39 ± 0	18.39	21.54	**5.17**
	Ampicillin Inj 250mg	28	14.89	8.44 ± 7.44	236.25	6.68	0.45						
	Ampicillin Inj 500mg	10	5.32	103.62 ± 113.84	1036.19	29.30	**5.51**						
	Benzylpenicillin G Inj 1Mu 50s	1	0.53	25.20 ± 0	25.20	0.71	1.34						
	Ciprofloxacin Tabs 500mg 10s	2	1.06	1.66 ± 1.26	3.31	0.09	0.09						
	Co-Trimoxazole for IV Infus 480mg 5ml	1	0.53	1.65 ± 0	1.65	0.05	0.09						
	Gentamicin Inj 40mg/ml 1ml	30	15.96	2.68 ± 2.36	80.33	2.27	0.14						
	Gentamicin Inj 80mg/2ml 2ml	10	5.32	14.91 ± 10.14	149.10	4.22	0.79						
	Cefotaxime Inj 1g/15ml							1	4.17	7.17 ± 0	7.17	8.39	**2.01**
	Ceftriaxone IM Inj 250mg	4	2.13	235.20 ± 132.28	940.80	26.60	**12.50**						
	Ceftriaxone Inj 1g	3	1.60	30.81 ± 7.70	92.43	2.61	1.64						
	Co-trimoxazole Tabs 480mg 20s	9	4.79	0.77 ± 0.67	6.95	0.20	0.04	2	8.33	1.80 ± 0	3.60	4.21	0.51
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	0.53	4.53 ± 0	4.53	0.13	0.24	1	4.17	4.53 ± 0	4.53	5.31	1.27
	Co-trimoxazole Susp 200/40mg/5ml 50ml	27	14.36	0.89 ± 0.87	23.98	0.68	0.05						
	Erythromycin Tabs 250mg 20s							1	4.17	16.80 ± 0	16.80	19.67	**4.72**
	Metronidazole IV Inj 500mg/ml 100ml	8	4.26	0.20 ± 0.21	1.61	0.05	0.01						
	Metronidazole Tabs 200mg 21s	4	2.13	1.25 ± 0.93	4.99	0.14	0.07	2	8.33	1.12 ± 0	2.24	2.62	0.31
	Half Darrows & Glucose 5% Sol 200ml	14	7.45	12.19 ± 11.19	170.63	4.82	0.65	1	4.17	10.50 ± 0	10.50	12.30	**2.95**

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Diarrhoea, infective / food poisoning	Half Darrows & Glucose 5% Sol 500ml	5	2.66	17.89 ± 3.24	89.47	2.53	0.95						
	Loperamide Tabs 2mg 6s	15	7.98	0.51 ± 0.29	7.61	0.22	0.03	13	54.17	1.17 ± 0.43	15.26	17.87	0.33
	Total	**188**	**100**		**3536.74**	**100**		**24**	**100**		**85.39**	**100**	
Tuberculosis	Amoxycillin Caps 500mg 15's							1	2.70	3.46 ± 0	3.46	0.26	0.10
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	4	1.96	118.13 ± 79.35	472.51	8.08	**4.12**						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	5	2.45	17.90 ± 1.10	89.51	1.53	0.62						
	Ampicillin Inj 250mg	2	0.98	18.90 ± 1.64	37.80	0.65	0.66						
	Ampicillin Inj 500mg	8	3.92	157.06 ± 103.09	1256.49	21.49	**5.48**						
	Ciprofloxacin Tabs 500mg 10s							1	2.70	5.09 ± 0	5.09	0.39	0.14
	Co-Trimoxazole for IV Infus 480mg 5ml	2	0.98	5.78 ± 5.83	11.55	0.20	0.20						
	Fluconazole Caps 50mg 14s	1	0.49	94.27 ± 0	94.27	1.61	**3.29**						
	Fluconazole Caps 200mg 28s	3	1.47	8.77 ± 5.47	26.31	0.45	0.31						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	1	0.49	152.06 ± 0	152.06	2.60	**5.31**						
	Gentamicin Inj 40mg/ml 1ml	1	0.49	3.15 ± 0	3.15	0.05	0.11						
	Gentamicin Inj 80mg/2ml 2ml	11	5.39	20.33 ± 10.62	223.65	3.83	0.71						
	Ketoconazole Tabs 200mg 30s	1	0.49	6.11 ± 0	6.11	0.10	0.21						
	Ceftriaxone IM Inj 250mg	1	0.49	504.00 ± 0	504.00	8.62	**17.59**						
	Ceftriaxone Inj 1g	3	1.47	27.73 ± 9.24	83.19	1.42	0.97						
	Co-trimoxazole Tabs 480mg 20s	8	3.92	1.30 ± 1.04	10.43	0.18	0.05						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	3	1.47	4.53 ± 0	13.60	0.23	0.16	1	2.70	4.53 ± 0	4.53	0.35	0.13
	Metronidazole IV Inj 500mg/ml 100ml	3	1.47	0.47 ± 0.11	1.41	0.02	0.02						
	Metronidazole Tabs 200mg 21s	1	0.49	2.24 ± 0	2.24	0.04	0.08						
	Spectinomycin Inj 400mg/ml 2g 5ml	1	0.49	27.63 ± 0	27.63	0.47	0.96						
	Half Darrows & Glucose 5% Sol 200ml	1	0.49	10.50 ± 0	10.50	0.18	0.37						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Tuberculosis	Ethionamide Tabs 250mg 250s	3	1.47	8.87 ± 3.84	26.62	0.46	0.31						
	Pyrazinamide Tabs 500mg 28s	1	0.49	0.12 ± 0	0.12	0.00	0.00						
	Rifampicin Caps 150mg 100s	3	1.47	7.47 ± 3.56	22.41	0.38	0.26						
	Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	41	20.10	6.86 ± 9.14	281.20	4.81	0.24	2	5.41	6.67 ± 0	13.34	1.02	0.19
	Rifampicin 150mg, Isoniazid 75mg Tabs 60s	20	9.80	26.13 ± 18.23	522.56	8.94	0.91	4	10.81	32.78 ± 8.18	131.10	9.98	0.92
	Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	**71**	34.80	25.34 ± 22.02	1799.08	30.78	0.88	24	64.86	42.51 ± 9.32	1020.24	77.67	1.20
	Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s	1	0.49	83.91 ± 0	83.91	1.44	**2.93**						
	Rifampicin 300mg & Isoniazid 150mg Tabs 40s							4	10.81	33.96 ± 0	135.82	10.34	0.96
	Streptomycin Inj 1g/3ml	1	0.49	23.31 ± 4.64	69.92	1.20	**2.44**						
	Streptomycin Sulphate Inj 5g/15ml	3	1.47	4.56 ± 2.85	13.68	0.23	0.16						
	Total	**204**	**100**		**5845.91**	**100**		**37**	**100**		**1313.58**	**100**	
Septicaemia	Amoxycillin Susp 125mg/5ml 100ml	1	20.00	2.61 ± 0	2.61	0.43	0.02						
	Ceftriaxone IM Inj 250mg	2	40.00	302.40 ± 285.11	604.80	99.45	**2.49**						
	Metronidazole IV Inj 500mg/ml 100ml	2	40.00	0.37 ± 0.16	0.74	0.12	0.00						
	Total	**5**	**100**		**608.15**	**100**							
STD suspicion	Amoxycillin Caps 500mg 15s	1	20.00	3.46 ± 0	3.46	17.75	0.89	2	8.00	3.46 ± 0	6.91	1.51	0.19
	Benzathine Penicillin G Inj. 2.4Mu Vials	1	20.00	11.98 ± 0	11.98	61.47	**3.07**	1	4.00	11.98 ± 0	11.98	2.62	0.66
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml							2	8.00	180.16 ± 109.19	360.32	78.92	**9.86**
	Ciprofloxacin Tabs 500mg 10s	1	20.00	0.26 ± 0	0.26	1.33	0.07	5	20.00	0.21 ± 0.10	1.05	0.23	0.01
	Ceftriaxone Inj 1g							1	4.00	18.49 ± 0	18.49	4.05	1.01
	Doxycycline Caps 100mg 14s	1	20.00	1.55 ± 0	1.55	7.95	0.40	7	28.00	1.65 ± 0.25	11.55	2.53	0.09

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
STD suspicion	Erythromycin Tabs 250mg 100s							1	4.00	33.60 ± 0	33.60	7.36	1.84
	Metronidazole IV Inj 500mg/ml 100ml							1	4.00	1.48 ± 0	1.48	0.32	0.08
	Metronidazole Tabs 200mg 21s	1	20.00	2.24 ± 0	2.24	11.49	0.57	5	20.00	2.24 ± 0.79	11.20	2.45	0.12
	Total	**5**	**100**		**19.49**	**100**		**25**	**100**		**456.57**	**100**	
Vaginal discharge	Metronidazole IV Inj 500mg/ml 100ml	1	100.00	0.33 ± 0	0.33	100.00	1.00						
	Total	**1**	**100**		**0.33**	**100**							
Herpes viral inflammation of perianal skin	Flucloxacillin Caps 250mg 20s	1	50.00	15.60 ± 0	15.60	87.44	1.75						
	Metronidazole Tabs 200mg 21s	1	50.00	2.24 ± 0	2.24	12.56	0.25						
	Total	**2**	**100**		**17.84**	**100**							
Genital warts	Ampicillin Inj 500mg	1	33.33	16.32 ± 0	16.32	52.82	1.58						
	Cloxacillin IV Inj 500mg	1	33.33	12.78 ± 0	12.78	41.36	1.24						
	Co-trimoxazole Tabs 480mg 20s	1	33.33	1.80 ± 0	1.80	5.83	0.17						
	Podophyllum Resin 25g							1	20.00	42.66 ± 0	42.66	25.24	1.26
	Podophyllum Resin Oint 10g							4	80.00	31.58 ± 12.15	126.32	74.75	0.93
	Total	**3**	**99.99**		**30.90**	**100**		**5**	**100**		**168.98**	**100**	
Rabies	Vaccine Immunoglobulin Human Anti-Rabies 150Iu							1	16.67	324.37 ± 0	324.37	16.67	1.00
	Vaccine Rabies 2.5Iu/dose Single dose							5	83.33	324.37 ± 0	1621.84	83.33	1.00
	Total							**6**	**100**		**1946.21**	**100**	
Herpes simplex cont.	Acyclovir Tabs 200mg 25s							1	100.00	7.18 ± 0	7.18	100.00	1.00
	Total							**1**	**100**		**7.18**	**100**	
Undefined bacterial infection	Amoxycillin Caps 250mg 15s	8	1.16	1.52 ± 0.44	12.16	0.05	0.04	14	2.79	2.54 ± 3.27	35.54	0.55	0.20
	Amoxycillin Caps 500mg 15s	35	5.09	2.66 ± 1.43	93.20	0.39	0.08	**79**	15.74	3.46 ± 0.03	273.43	4.26	0.27
	Amoxycillin Susp 125mg/5ml 100ml	18	2.62	2.34 ± 0.80	42.09	0.18	0.07	17	3.39	2.61 ± 0	44.44	0.69	0.20
	Amoxycillin Susp 250mg/5ml 100ml	1	0.15	3.83 ± 0	3.83	0.02	0.11	1	0.20	3.83 ± 0	3.83	0.06	0.30
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	14	2.04	102.72 ± 55.24	1438.08	6.01	**2.95**						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Undefined bacterial infection	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	6	0.87	12.19 ± 0	73.14	0.31	0.35	8	1.59	12.19 ± 0	97.52	1.52	0.95
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	43	6.26	18.39 ± 4.61	790.94	3.31	0.53	**57**	11.35	17.31 ± 3.98	986.75	15.36	1.35
	Ampicillin Inj 250mg	27	3.93	15.55 ± 18.60	419.76	1.75	0.45						
	Ampicillin Inj 500mg	**57**	8.30	135.10 ± 113.94	7700.46	32.18	**3.88**	2	0.40	16.32 ± 0	32.64	0.51	1.28
	Benzathine Penicillin G Inj. 2.4Mu Vials	3	0.44	30.46 ± 32.00	91.38	0.38	0.87	3	0.60	11.98 ± 0	35.95	0.56	0.94
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	3	0.44	205.89 ± 89.16	617.68	2.58	**5.91**	2	0.40	102.95 ± 0	205.89	3.21	**8.05**
	Ciprofloxacin Tabs 500mg 10s	19	2.77	1.08 ± 0.88	20.50	0.09	0.03	30	5.98	1.10 ± 1.12	32.86	0.51	0.09
	Clindamycin Caps 150mg 100s							2	0.40	22.94 ± 15.36	45.88	0.71	1.79
	Cloxacillin IV Inj 500mg	14	2.04	81.24 ± 43.87	1137.42	4.75	**2.33**						
	Co-Trimoxazole for IV Infus 480mg 5ml	5	0.73	5.68 ± 4.01	28.38	0.12	0.16						
	Flucloxacillin Caps 250mg 20s	24	3.49	13.27 ± 6.57	318.55	1.33	0.38	22	4.38	16.66 ± 7.34	366.51	5.71	1.30
	Fluconazole Caps 50mg 14s	2	0.29	102.14 ± 77.86	204.27	0.85	**2.93**						
	Fluconazole Caps 200mg 28s	4	0.58	24.29 ± 20.69	97.17	0.41	0.70	1	0.20	86.75 ± 0	86.75	1.35	**6.78**
	Fluconazole Inj for IV Infus 2mg/ml 100ml	1	0.15	21.90 ± 0	21.90	0.09	0.63						
	Gentamicin Inj 40mg/ml 1ml	26	3.78	3.61 ± 3.88	93.80	0.39	0.10	2	0.40	4.73 ± 5.20	9.45	0.15	0.37
	Gentamicin Inj 80mg/2ml 2ml	47	6.84	18.08 ± 10.65	849.60	3.55	0.52	2	0.40	2.13 ± 0	4.26	0.07	0.17
	Ketoconazole Tabs 200mg 30s	11	1.60	28.11 ± 26.07	309.23	1.29	0.81	15	2.99	58.89 ± 29.79	883.38	13.75	**4.60**
	Nalidixic Acid Tabs 500mg 100s							2	0.40	45.79 ± 0	91.58	1.43	**3.58**
	Nitrofurantoin Caps 100mg 50s	2	0.29	13.20 ± 7.00	26.40	0.11	0.38	1	0.20	16.50 ± 0	16.50	0.26	1.29
	Phenoxymethyl Penicillin Susp 250mg/5ml 100ml							1	0.20	3.17 ± 0	3.17	0.05	0.25
	Phenoxymethyl Penicillin Tabs 250mg 20's							5	1.00	4.64 ± 3.36	23.22	0.36	0.36
	Phenoxymethyl Penicillin Tabs 250mg 100's							1	0.20	10.04 ± 0	10.04	0.16	0.78
	Nitrofurantoin Caps 100mg 30s	1	0.15	3.27 ± 0	3.27	0.01	0.09	5	1.00	28.03 ± 12.28	140.16	2.18	**2.19**
	Cefazolin Inj 500mg	4	0.58	644.53 ± 443.04	2578.13	10.78	**18.51**	2	0.40	49.58 ± 23.37	99.16	1.54	**3.87**

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Undefined bacterial infection	Ceftriaxone IM Inj 250mg	10	1.46	491.40 ± 391.54	4914.00	20.54	**14.11**	2	0.40	84.00 ± 0	168.00	2.62	**6.56**
	Ceftriaxone Inj 1g	29	4.22	34.71 ± 36.09	1006.56	4.21	1.00	8	1.59	9.24 ± 0	73.94	1.15	0.72
	Co-trimoxazole Tabs 480mg 20s	**55**	8.01	2.01 ± 1.94	110.67	0.46	0.06	18	3.59	2.04 ± 0.57	36.67	0.57	0.16
	Co-trimoxazole Tabs 400mg 1000s							1	0.20	0.03 ± 0	0.03	0.00	0.00
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	21	3.06	4.87 ± 1.46	102.29	0.43	0.14	48	9.56	4.96 ± 1.45	237.93	3.70	0.39
	Co-trimoxazole Susp 200/40mg/5ml 50ml	47	6.84	1.60 ± 3.18	75.10	0.31	0.05	16	3.19	5.74 ± 6.75	91.85	1.43	0.45
	Co-trimoxazole Syr 200/40mg/5ml 100ml	8	1.16	3.06 ± 1.80	24.48	0.10	0.09	5	1.00	4.76 ± 1.64	23.79	0.37	0.37
	Doxycycline Caps 100mg 14s	14	2.04	1.33 ± 0.51	18.64	0.08	0.04	40	7.97	40.58 ± 245.43	1623.05	25.27	**3.17**
	Erythromycin Susp 125mg/5ml 100ml	3	0.44	5.93 ± 2.57	17.78	0.07	0.17	1	0.20	7.41 ± 0	7.41	0.12	0.58
	Erythromycin IV Inj 1g	1	0.15	484.73 ± 0	484.73	2.03	**13.92**						
	Erythromycin Tabs 250mg 20s	11	1.60	9.47 ± 6.40	104.16	0.44	0.27	20	3.98	18.06 ± 7.35	361.21	5.62	1.41
	Metronidazole IV Inj 500mg/ml 100ml	**53**	7.71	0.29 ± 0.22	15.27	0.06	0.01	1	0.20	0.15 ± 0	0.15	0.00	0.01
	Metronidazole Tabs 200mg 21s	**59**	8.59	1.36 ± 0.83	79.97	0.33	0.04	**50**	9.96	1.66 ± 0.57	82.88	1.29	0.13
	Metronidazole Susp 200mg/5ml 50ml							4	0.80	6.62 ± 0	26.49	0.41	0.52
	Metronidazole Susp 200mg/5ml 100ml							1	0.20	1.83 ± 0	1.83	0.03	0.14
	Metronidazole Tabs 200mg 10s							1	0.20	0.53 ± 0	0.53	0.01	0.04
	Acyclovir Cream 5% 2g							1	0.20	3.09 ± 0	3.09	0.05	0.24
	Nystatin Oral Susp 100 000lu 20ml							3	0.60	3.99 ± 0	11.97	0.19	0.31
	Benzoic Acid Co Oint 25mg							2	0.40	2.55 ± 0	5.10	0.08	0.20
	Aqueous Cream 100g							1	0.20	2.03 ± 0	2.03	0.03	0.16
	Chloramphenicol Eye Drops 0.5% 10ml							3	0.60	27.76 ± 10.78	83.29	1.30	**2.17**
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s							2	0.40	26.74 ± 12.61	53.48	0.83	**2.09**

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Undefined bacterial infection	Ibuprofen Tabs 200mg 15s	1	0.15	1.86 ± 0	1.86	0.01	0.05						
	Total	**687**	**100**		**23926.85**	**100**		**502**	**100**		**6423.62**	**100**	
Undefined viral infection	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	6.25	123.26 ± 0	123.26	11.09	1.77						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	6.25	18.39 ± 0	18.39	1.65	0.26						
	Ampicillin Inj 500mg	2	12.50	134.62 ± 109.62	269.25	24.21	1.94						
	Ciprofloxacin Tabs 500mg 10s							1	8.33	2.55 ± 0	2.55	2.50	0.30
	Gentamicin Inj 80mg/2ml 2ml	3	18.75	29.82 ± 24.19	89.46	8.05	0.43						
	Cefazolin Inj 500mg	1	6.25	594.95 ± 0	594.95	53.51	**8.56**						
	Co-trimoxazole Tabs 480mg 20s	4	25.00	1.84 ± 2.39	7.37	0.66	0.03						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	6.25	4.53 ± 0	4.53	0.41	0.07	1	8.33	4.53 ± 0	4.53	4.44	0.53
	Metronidazole Tabs 200mg 21s	1	6.25	0.64 ± 0	0.64	0.06	0.01	1	8.33	2.24 ± 0	2.24	2.19	0.26
	Acyclovir Cream 5% 2g	1	6.25	3.09 ± 0	3.09	0.28	0.04	4	33.33	3.09 ± 0	12.35	12.10	0.36
	Acyclovir Tabs 200mg 25s	1	6.25	1.01 ± 0	1.01	0.09	0.01	5	41.67	16.08 ± 12.41	80.42	78.78	1.89
	Total	**16**	**100**		**1111.95**	**100**		**12**	**100**		**102.08**	**100**	
Kapro's sarcoma	Fluconazole Caps 200mg 28s	1	25.00	13.16 ± 0	13.16	11.85	0.47						
	Ketoconazole Tabs 200mg 30s	1	25.00	92.50 ± 0	92.50	83.27	**3.33**						
	Co-trimoxazole Tabs 480mg 20s	1	25.00	0.90 ± 0	0.90	0.81	0.03						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	25.00	4.53 ± 0	4.53	4.08	0.16						
	Total	**4**	**100**		**111.09**	**100**							
Unspecified HIV	Amoxycillin Caps 500mg 15s							2	0.29	3.04 ± 0.60	6.07	0.01	0.04
	Ciprofloxacin Tabs 500mg 10s							2	0.29	0.26 ± 0	0.51	0.00	0.00
	Co-trimoxazole Tabs 480mg 20s	6	2.49	1.38 ± 1.03	8.27	0.09	0.04	20	2.92	3.42 ± 1.22	68.31	0.15	0.05
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	25	10.37	4.89 ± 1.81	122.36	1.31	0.13	**125**	18.22	4.58 ± 0.61	573.09	1.22	0.07
	Co-trimoxazole Susp 200/40mg/5ml 50ml	8	3.32	4.18 ± 2.95	33.41	0.36	0.11	2	0.29	6.68 ± 0	13.37	0.03	0.10
	Co-trimoxazole Syr 200/40mg/5ml 100ml							5	0.73	3.29 ± 0.82	16.47	0.04	0.05

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Unspecified HIV	Doxycycline Caps 100mg 14s							2	0.29	1.55 ± 0	3.11	0.01	0.02
	Erythromycin Tabs 250mg 56s							1	0.15	4.53 ± 0	4.53	0.01	0.07
	Metronidazole IV Inj 500mg/ml 100ml							8	1.17	40.28 ± 7.60	322.24	0.69	0.59
	Metronidazole Tabs 200mg 21s							2	0.29	2.24 ± 0	4.48	0.01	0.03
	Metronidazole Tabs 200mg 60s							1	0.15	40.11 ± 0	40.11	0.09	0.59
	Efavirenz Caps 50mg 30s	1	0.41	2.61 ± 0	2.61	0.03	0.07	11	1.60	185.56 ± 185.56	5770.54	12.28	**7.66**
	Efavirenz Caps 200mg 90s	12	4.98	76.94 ± 50.95	923.34	9.85	1.98	18	2.62	87.08 ± 51.64	1567.49	3.34	1.27
	Efavirenz Caps 600mg 30s	12	4.98	193.05 ± 98.80	2316.62	24.71	**4.96**	**97**	14.14	261.39 ± 59.93	25354.40	53.95	**3.82**
	Lamivudine Oral Sol 10mg/ml 240ml	15	6.22	27.60 ± 16.41	413.96	4.42	0.71	9	1.31	44.10 ± 20.75	396.91	0.84	0.64
	Lamivudine Tabs 150mg 60s	**57**	23.65	28.27 ± 18.45	1611.33	17.19	0.73	**155**	22.59	41.90 ± 8.17	6494.33	13.82	0.61
	Lopinavir Syr 60ml	6	2.49	318.91 ± 192.48	1913.45	20.41	**8.20**						
	Nevirapine Tabs 200mg 60s	31	12.86	27.90 ± 16.83	864.98	9.23	0.72	**53**	7.73	38.03 ± 14.89	2015.53	4.29	0.56
	Stavudine Caps 15mg 60s	2	0.83	19.25 ± 0	38.50	0.41	0.49						
	Stavudine Caps 20mg 60s	12	4.98	17.49 ± 8.77	209.88	2.24	0.45	8	1.17	16.67 ± 5.49	133.38	0.28	0.24
	Stavudine D4t Caps 30mg 60s	27	11.20	13.34 ± 7.90	360.07	3.84	0.34	**61**	8.89	18.70 ± 2.70	1140.75	2.43	0.27
	Stavudine D4t Caps 40mg 60s	17	7.05	20.11 ± 4.46	341.89	3.65	0.52	**98**	14.29	21.74 ± 3.87	2130.28	4.53	0.32
	Stavudine D4t Sol 200ml							4	0.58	170.47 ± 60.17	681.87	1.45	**2.49**
	Zidovudine Caps 300mg 60s	10	4.15	21.31 ± 28.70	213.09	2.27	0.55	1	0.15	7.54 ± 0	7.54	0.02	0.11
	Folic Acid Tabs 5mg 1000s							1	0.15	247.34 ± 0	247.34	0.53	**3.61**
	Total	**241**	**100**		**9373.76**	**100**		**686**	**100**		**46992.64**	**100**	
Fungal skin infection	Clotrimazole Cream 1% 20g	5	41.67	2.54 ± 0.02	12.70	4.89	0.12	12	57.14	3.19 ± 1.15	38.25	13.71	0.24
	Gentian Violet Sol 0.5% 20ml							1	4.76	1.12 ± 0	1.12	0.40	0.08
	Malic Acid, Benz Acid & Salicyl Acid Cream 50g	1	8.33	17.49 ± 0	17.49	6.74	0.81						
	Miconazole Nitrate cream 2% 40g							1	4.76	39.93 ± 0	39.93	14.31	**3.00**
	Miconazole Nitrate Oral Gel 2% 30g	5	41.67	45.25 ± 0.04	226.27	87.19	**2.09**	1	4.76	45.24 ± 0	45.24	16.21	**3.40**
	Mupirocin Topical Oint 2% 15g							1	4.76	16.53 ± 0	16.53	5.92	1.24
	Nystatin Vaginal Cream 100 000Iu 60g							1	4.76	50.21 ± 0	50.21	17.99	**3.78**

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Fungal skin infection	Nystatin Vaginal Tabs 15s	1	8.33	3.06 ± 0	3.06	1.18	0.14	2	9.52	24.61 ± 30.86	49.22	17.63	1.85
	Selenium Sulphide Shampoo 2.5% 50ml							2	9.52	19.30 ± 0	38.60	13.83	1.45
	Total	**12**	**100**		**259.52**	**100**		**21**	**100**		**279.09**	**100**	
Scabies	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s							1	9.09	18.39 ± 0	18.49	25.21	**2.77**
	Benzathine Penicillin 1.2Mu Vials							1	9.09	33.60 ± 0	33.60	45.81	**5.04**
	Benzyl Benzoate Emuls 100ml	5	100.00	1.07 ± 0.46	5.34	100.00	1.00	7	63.64	1.19 ± 0.21	8.35	11.38	0.18
	Monosulfiram Soap 5% 75g							2	18.18	6.46 ± 0	12.91	17.60	0.97
	Total	**5**	**100**		**5.34**	**100**		**11**	**100**		**73.35**	**100**	
Candidiasis	Fluconazole Susp 50mg/5ml 35ml	1	4.76	0.00 ± 0	0.00	0.00	0.00						
	Co-trimoxazole Tabs 480mg 20s							1	25.00	3.60 ± 0	3.60	15.26	0.61
	Amphotericin B Lozenges 10mg 20's	1	4.76	1.86 ± 0	1.86	0.92	0.19						
	Griseofulvin Tabs 125mg 100s							1	25.00	11.99 ± 0	11.99	50.87	**2.03**
	Nystatin Oral Susp 100 000Iu 20ml	16	76.19	4.43 ± 5.46	70.84	35.00	0.46	2	50.00	3.99 ± 0	7.98	33.86	0.68
	Miconazole Nitrate Oral Gel 2% 30g	3	14.29	43.24 ± 1.73	129.71	64.08	**4.49**						
	Total	**21**	**100**		**202.41**	**100**		**4**	**100**		**23.57**	**99.98**	
Cryptococcus cerebral meningitis	Chloroquine Tabs 150mg 100s							1	100.00	1.68 ± 0	1.68	100.00	1.00
	Total							**1**	**100**		**1.68**	**100**	
Malaria	Fluconazole Inj for IV Infus 2mg/ml 100ml	2	50.00	114.05 ± 32.26	228.09	80.44	1.61						
	Ceftriaxone Inj 1g	2	50.00	27.73 ± 26.14	55.46	19.56	0.39						
	Total	**4**	**100**		**283.55**	**100**							
Worm infections except tape worm	Albendazole Susp 100mg/5ml 20ml	8	47.06	6.83 ± 0.62	54.65	50.98	1.08	2	16.67	7.05 ± 0	14.10	15.67	0.94
	Albendazole Tabs 200mg 2s	9	52.94	5.84 ± 0	52.55	49.02	0.93	10	83.33	7.59 ± 3.94	75.91	84.33	1.01
	Total	**17**	**100**		**107.20**	**100**		**12**	**100**		**90.01**	**100**	

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Hyper-calcaemia	Ceftriaxone Inj 1g	1	100.00	9.24 ± 0	9.24	100.00	1.00						
	Total	**1**	**100**		**9.24**	**100**							
Malignant neoplasm of testis, unspecified	Amoxycillin Caps 500mg 15s	3	42.86	1.69 ± 1.64	5.07	1.45	0.03						
	Ampicillin Inj 500mg	1	14.29	81.59 ± 0	81.59	23.33	1.63						
	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	1	14.29	257.37 ± 0	257.37	73.60	**5.15**						
	Ciprofloxacin Tabs 500mg 10s	1	14.29	0.51 ± 0	0.51	0.15	0.01						
	Phenoxymethyl Penicillin Tabs 250mg 20s	1	14.29	5.16 ± 0	5.16	1.48	0.10						
	Total	**7**	**100**		**349.70**	**100**							
Cancer of penis, unspecified	Ampicillin Inj 500mg	1	50.00	32.64 ± 0	32.64	69.57	1.39						
	Erythromycin Tabs 250mg 20s	1	50.00	14.28 ± 0	14.28	30.43	0.61						
	Total	**2**	**100**		**46.92**	**100**							
Multiple Myeloma	Ampicillin Inj 500mg	1	50.00	122.39 ± 0	122.39	79.30	1.59						
	Gentamicin Inj 80mg/2ml 2ml	1	50.00	31.95 ± 0	31.95	20.70	0.41						
	Total	**2**	**100**		**154.34**	**100**							
Unspecified folate deficiency anaemia	Streptokinase Inj 1 500 000Iu							1	2.33	1.00 ± 0	1.00	2.44	1.05
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	1	0.45	1.16 ± 0	1.16	1.15	**2.55**						
	Folic Acid Tabs 5mg 28s	**220**	99.55	0.45 ± 0.44	99.37	98.85	0.99	42	97.67	0.95 ± 0.15	39.88	97.56	1.00
	Total	**221**	**100**		**100.53**	**100**		**43**	**100**		**40.88**	**100**	
Unspecified anemia	Amoxycillin Caps 500mg 15s	1	0.55	2.07 ± 0	2.07	0.49	0.89						
	Phenoxymethyl Penicillin Tabs 250mg 20s	1	0.55	2.06 ± 0	2.06	0.49	0.89						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	1	0.55	2.23 ± 0	2.23	0.53	0.96						
	Metronidazole IV Inj 500mg/ml 100ml	1	0.55	0.15 ± 0	0.15	0.04	0.06						
	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	**137**	74.86	0.81 ± 0.77	111.40	26.24	0.35	30	71.43	1.56 ± 0.55	46.69	29.04	0.41
	Ferrous Sulphate Co Tabs eq 65mg Fe 84s	18	9.84	4.17 ± 0	75.06	17.68	1.80	10	23.81	4.17 ± 0	41.70	25.94	1.09

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Unspecified anemia	Ferrous Lactate Drops eq 25mg Fe/ml 10ml							1	2.38	57.48 ± 0	57.48	35.75	**15.02**
	Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	20	10.93	6.80 ± 5.93	136.01	32.03	**2.93**						
	Folic Acid Tabs 5mg 28s	1	0.55	0.11 ± 0	0.11	0.03	0.05						
	Phytomenadione IM Inj 10mg/ml 1ml	1	0.55	58.46 ± 0	58.46	13.77	**25.20**						
	Albendazole Susp 100mg/5ml 20ml	2	1.09	18.51 ± 23.69	37.02	8.72	**7.98**						
	Lignocaine Gel 2% 20g							1	2.38	14.90 ± 0	14.90	9.27	**3.89**
	Total	**183**	**100**		**424.57**	**100**		**42**	**100**		**160.77**	**100**	
Unspecified coagulation defects	Amoxycillin Caps 500mg 15s							1	0.81	3.46 ± 0	3.46	0.32	0.39
	Enoxaparin Prefilled Syr SC 40mg/0.4ml	5	3.55	47.60 ± 34.84	238.00	4.42	1.25						
	Balanced Heparin 1250Iu/ml 5ml 5s	1	0.71	2764.80 ± 0	2764.80	51.37	**72.44**						
	Heparin IV Inj 1 000Iu/ml 5ml	2	1.42	10.33 ± 11.36	20.66	0.38	0.27						
	HeparinIV Inj 5 000Iu/ml 5ml	12	8.51	19.19 ± 15.81	230.23	4.28	0.50						
	Tranexamic Acid Inj 100mg/ml 5ml 5s	19	13.48	92.70 ± 72.55	1761.31	32.73	**2.43**	3	2.44	38.29 ± 0	114.87	10.65	**4.37**
	Tranexamic Acid Tabs 500mg 60s	5	3.55	19.24 ± 13.99	96.20	1.79	0.50	6	4.88	70.45 ± 70.24	422.67	39.18	**8.03**
	Warfarin Sodium Tabs 5mg 28s	12	8.51	11.12 ± 6.57	133.42	2.48	0.29	9	7.32	19.02 ± 4.10	171.22	15.87	**2.17**
	Warfarin Sodium Tabs 5mg 42s							7	5.69	23.90 ± 1.47	167.33	15.51	**2.73**
	Warfarin Sodium Tabs 5mg 49s							1	0.81	27.24 ± 0	27.24	2.52	**3.11**
	Warfarin Sodium Tabs 5mg 14s	1	0.71	7.78 ± 0	7.78	0.14	0.20	2	1.63	7.78 ± 0	15.57	1.44	0.89
	Phytomenadione IM Inj 10mg/ml 1ml	3	2.13	19.49 ± 13.50	58.46	1.09	0.51	1	0.81	11.69 ± 0	11.69	1.08	1.33
	Aspirin Soluble Tabs 300mg 14s	81	57.45	0.88 ± 0.75	70.97	1.32	0.02	**93**	75.61	1.56 ± 0.35	144.75	13.42	0.18
	Total	**141**	**100**		**5381.83**	**100**		**123**	**100**		**1078.78**	**100**	
Hypo-thyroidism, unspecified	Thyroxine Sodium Tabs 100µg 28s	9	100.00	5.76 ± 2.62	51.87	100.00	1.00						
	Total	**9**	**100**		**51.87**	**100**							

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Diabetes mellitus type 1	Insulin Actraphane Hm 100Iu/ml 10ml	16	34.78	53.76 ± 31.00	860.23	66.80	1.92	16	47.06	82.56 ± 41.30	1320.95	90.51	1.92
	Insulin Actraphane Hm 100Iu/ml 3ml Penset	6	13.04	58.53 ± 24.15	351.17	27.27	**2.09**						
	Insulin Actrapid Hm 100Iu/ml 10ml	10	21.74	0.45 ± 0.43	4.51	0.35	0.02	3	8.82	0.37 ± 0	1.10	0.08	0.01
	Insulin Protaphane Hm 100Iu/ml 3ml Penset							2	5.88	41.31 ± 0	82.63	5.66	0.96
	Insulin Needles 1s	14	30.43	5.13 ± 4.75	71.80	5.58	0.18	13	38.24	4.22 ± 2.03	54.81	3.76	0.10
	Total	**46**	**100**		**1287.71**	**100**		**34**	**100**		**1459.49**	**100**	
Diabetes mellitus type 2	Insulin Actraphane Hm 100Iu/ml 10ml	1	1.05	10.27 ± 0	10.27	2.36	**2.25**						
	Gliclazide Tabs 80mg 56s	14	14.74	7.39 ± 2.59	103.43	23.81	1.62	14	22.58	8.69 ± 3.12	121.68	24.05	1.07
	Gliclazide Tabs 80mg 28s	21	22.11	1.18 ± 1.26	24.77	5.70	0.26	7	11.29	3.28 ± 0	22.93	4.53	0.40
	Metformin Tabs 850mg 56s	45	47.37	3.38 ±3.51	152.22	35.04	0.74	15	24.19	5.51 ± 2.37	82.61	16.33	0.68
	Metformin Tabs 850mg 84s	14	14.74	10.27 ± 2.73	143.77	33.09	**2.25**	26	41.94	10.72 ± 1.45	278.63	55.08	1.31
	Total	**95**	**100**		**434.46**	**100**		**62**	**100**		**505.85**	**100**	
Hypo-glycaemia / hyper-glycaemia	Amoxycillin Caps 500mg 15s	1	20.00	3.68 ± 0	3.68	0.11	0.01						
	Co-trimoxazole Tabs 480mg 20s	1	20.00	1.80 ± 0	1.80	0.05	0.00						
	Glucagon Inj 1mg 1ml	3	60.00	1097.74 ± 914.63	3293.22	99.83	1.66						
	Total	**5**	**100**		**3298.70**	**100**							
Pellagra	Digoxin Tabs 0.25mg 14s	1	50.00	0.37 ± 0	0.37	8.33	0.17						
	Digoxin Tabs 0.25mg 28s	1	50.00	4.07 ± 0	4.07	91.67	1.83						
	Total	**2**	**100**		**4.44**	**100**							
Vitamin deficiency	Folic Acid Tabs 5mg 28s	1	0.13	1.00 ± 0	1.00	0.16	1.22						
	Thyroxine Sodium Tabs 50µg 100s	1	0.13	0.37 ± 0	0.37	0.06	0.45						
	Ornipressin Inj 5Iu 1ml							1	0.17	3.13 ± 0	3.13	0.25	1.53
	Calciferol Tabs 50 000Iu 100s							1	0.17	2.41 ± 0	2.41	0.19	1.18
	Potassium Chloride Syr 300mg/5ml 100ml	1	0.13	1.93 ± 0	1.93	0.31	**2.36**						
	Potassium Chloride Slow Tabs 600mg 14s							1	0.17	2.35 ± 0	2.35	0.19	1.15

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Vitamin deficiency	Thiamine IV Inj Vit B1 100mg/ml 10ml	4	0.52	2.48 ± 1.86	9.92	1.57	**3.04**						
	Thiamine Tabs 100mg 28s	16	2.07	1.74 ± 1.82	27.81	4.40	**2.13**	1	0.17	4.33 ± 0	4.33	0.35	**2.12**
	Vitamin A Caps 100 000Iu 250s	21	2.71	0.35 ± 0.18	7.30	1.16	0.43	2	0.33	1.56 ± 1.81	3.13	0.25	0.76
	Vitamin A Tabs 50 000Iu 200s	1	0.13	0.10 ± 0	0.10	0.02	0.12						
	Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	11	1.42	7.91 ± 0	87.03	13.77	**9.69**	**76**	12.54	9.57 ± 9.26	727.11	58.61	**4.67**
	Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	3	0.39	5.48 ± 4.63	16.43	2.60	**6.71**	1	0.17	7.91 ± 0	7.91	0.64	**3.86**
	Vitamin B Co Inj 10ml (IM)	5	0.65	2.31 ± 1.53	11.55	1.83	**2.83**	2	0.33	1.20 ± 0	2.39	0.19	0.58
	Vitamin B Co Strong Tabs 28s	**122**	15.76	0.42 ± 0.44	51.58	8.16	0.52	**80**	13.20	0.84 ± 0.33	67.15	5.41	0.41
	Vitamin B Co Strong Tabs 1000s	1	0.13	0.21 ± 0	0.21	0.03	0.26						
	Vitamin B Co Syr 100ml	12	1.55	0.53 ± 0.65	6.30	1.00	0.64	1	0.17	1.09 ± 0	1.09	0.09	0.53
	Vitamin B6 Tabs 25mg 28s	**102**	13.18	1.20 ± 1.10	122.16	19.33	1.47	**63**	10.40	1.99 ± 0	125.43	10.11	0.97
	Vitamin C Tabs 100mg 28s	10	1.29	0.46 ± 0.48	4.62	0.73	0.57	20	3.30	0.87 ± 0.30	17.35	1.40	0.42
	Vitamin C Tabs 250mg 100s	19	2.45	1.52 ± 0.90	28.80	4.56	1.86	42	6.93	1.51 ± 0.76	63.35	5.11	0.74
	Vitamin E Tabs 100mg 50s							1	0.17	0.40 ± 0	0.40	0.03	0.19
	Vitamin Multiple Oral drops 25ml	2	0.26	11.81 ± 0	23.61	3.74	**14.46**						
	Vitamin Multiple Syr 100ml	**153**	19.77	0.81 ± 0.75	123.38	19.52	0.99	**58**	9.57	1.31 ± 0.51	75.89	6.12	0.64
	Vitamin Multiple Tabs 28s	**288**	37.21	0.36 ± 0.34	104.33	16.51	0.44	**256**	42.24	0.51 ± 0.43	137.24	11.06	0.26
	Bettaway Children's Own Tabs 60s	1	0.13	3.50 ± 0	3.50	0.55	**4.29**						
	Total	**774**	**100**		**631.93**	**100**		**606**	**100**		**1240.65**	**100**	
Mineral deficiency	Folic Acid Tabs 5mg 28s	1	0.88	0.50 ± 0	0.50	0.28	0.32						
	Calcitriol Caps 0.25mg 30s	6	5.26	0.68 ± 0.05	4.08	2.27	0.43						
	Calsium Carbonate & Glycine Tabs 420mg 300s	4	3.51	0.82 ± 0.33	3.29	1.83	0.52						
	Calcium Gluconate Tabs 300mg 28s	3	2.63	0.86 ± 0.59	2.57	1.43	0.54	10	18.87	0.72 ± 0.43	7.18	5.05	0.27
	Magnesium Chloride Tabs 500-700mg 100s	2	1.75	10.68 ± 8.39	21.36	11.88	**6.77**						
	Potassium Chloride Syr 300mg/5ml 100ml	32	28.07	1.03 ± 0.85	33.08	18.39	0.66						

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Mineral deficiency	Potassium Chloride Inj 15% 10ml							1	1.89	14.37 ± 0	14.38	10.11	**5.36**
	Potassium Chloride Slow Tabs 600mg 14s	43	37.72	1.50 ± 1.71	64.69	35.96	0.95	27	50.94	2.99 ± 1.01	80.70	56.74	1.11
	Potassium Citrate Mixture 100ml	15	13.16	1.67 ± 0.90	24.99	13.89	1.06	15	28.30	2.67 ± 0.83	39.98	28.11	0.99
	Vitamin A Caps 100 000Iu 250s	1	0.88	0.28 ± 0	0.28	0.16	0.18						
	Vitamin Multiple Syr 100ml	1	0.88	0.09 ± 0	0.09	0.05	0.06						
	Vi-Daylin Syrup with Minerals 150ml	6	5.26	4.16 ± 7.14	24.94	13.87	**2.63**						
	Total	**114**	**100**		**179.87**	**100**		**53**	**100**		**142.24**	**100**	
Cholesterol	Cholestyramine Powder 4g 50s	1	25.00	15.15 ± 0	15.15	56.51	**2.26**						
	Simvastatin Tabs 10mg 28s							3	60.00	6.62 ± 0	19.86	50.85	0.85
	Simvastatin Tabs 20mg 28s	3	75.00	3.89±	11.66	43.49	0.58	2	40.00	9.60 ± 0	19.19	49.15	1.23
	Total	**4**	**100**		**26.81**	**100**		**5**	**100**		**39.05**	**100**	
Sodium & Water disturbances	Aluminium Hydroxide Susp 350ml	1	100.00	27.33 ± 0	27.33	100.00	1.00						
	Total	**1**	**100**		**27.33**	**100**							
Disorders of acid-base balance	Sodium Bicarbonate Power 500mg	7	6.73	0.68 ± 0.27	4.76	0.45	0.07						
	Aluminium Hydroxide Susp 350ml	43	41.35	15.72 ± 11.67	676.13	64.52	1.56	37	60.66	26.66 ± 4.12	986.28	92.03	1.52
	Cimetidine IV Inj 100mg/ml 2ml	17	16.35	9.38 ± 7.60	159.39	15.21	0.93	1	1.64	0.99 ± 0	0.99	0.09	0.06
	Cimetidine Tabs 200mg 30s	9	8.65	0.92 ± 0.63	8.26	0.79	0.09	8	13.11	1.44 ± 0.67	11.52	1.07	0.08
	Cimetidine Tabs 400mg 60s	20	19.23	3.25 ± 3.42	65.01	6.20	0.32	11	18.03	6.09 ± 3.19	66.98	6.25	0.35
	Magnesium Trisillicate Co Mixt 200ml	1	0.96	0.11 ± 0	0.11	0.01	0.01	1	1.64	2.29 ± 0	2.29	0.21	0.13
	Ranitidine HCl Tabs 300mg 30s	1	0.96	12.26 ± 0	12.26	1.17	1.22						
	Omeprazole Caps 20mg 30s	5	4.81	22.39 ± 17.06	111.93	10.68	**2.22**	2	3.28	1.44 ± 0	2.88	0.27	0.08
	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g							1	1.64	0.76 ± 0	0.76	0.07	0.04
	Ringers Lactate Sol 1000ml	1	0.96	10.05 ± 0	10.05	0.96	1.00						
	Total	**104**	**100**		**1047.90**	**100**		**61**	**100**		**1071.69**	**100**	

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Other disorders of fluid & electrolyte balance	Amoxycillin Susp 125mg/5ml 100ml	1	0.72	2.61 ± 0	2.61	0.16	0.22	1	3.57	2.61 ± 0	7.61	7.83	**2.19**
	Ampicillin Inj 250mg	2	1.45	3.86 ± 3.27	7.72	0.46	0.32						
	Gentamicin Inj 40mg/ml 1ml	3	2.17	1.49 ± 1.45	4.46	0.27	0.12						
	Ceftriaxone IM Inj 250mg	2	1.45	126.00 ± 59.40	252.00	15.17	**10.46**						
	Co-trimoxazole Susp 200/40mg/5ml 50ml							1	3.57	1.11 ± 0	1.11	1.15	0.32
	Aluminium Hydroxide Susp 350ml	6	4.35	23.30 ± 9.89	139.78	8.41	1.93	1	3.57	27.33 ± 0	27.33	28.11	**7.87**
	Cimetidine IV Inj 100mg/ml 2ml	3	2.17	3.96 ± 3.57	11.88	0.71	0.33						
	Cimetidine Tabs 200mg 30s	2	1.45	0.77 ± 0.95	1.54	0.09	0.06						
	Cimetidine Tabs 400mg 60s							1	3.57	7.05 ± 0	7.05	7.25	**2.03**
	Ranitidine Inj 25mg/ml 2ml							1	3.57	12.00 ± 0	12.00	12.34	**3.46**
	Sodium Chlorite Potassium Sodium Citrate Powder 26g 50's							1	3.57	0.80 ± 0	0.80	0.82	0.23
	Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	33	23.91	0.60 ± 0.19	19.76	1.19	0.05	18	64.29	0.76 ± 0.49	13.68	14.07	0.22
	Electrolyte no 2 Sol 1000ml	2	1.45	24.33 ± 0	48.66	2.93	**2.02**						
	Ringers Lactate Sol 200ml	1	0.72	10.00 ± 0	10.00	0.60	0.83						
	Ringers Lactate Sol 1000ml	48	34.78	16.57 ± 15.00	795.39	47.87	1.38						
	Sodium Chloride 0.9% for Irrigation 1000ml	1	0.72	1.29 ± 0	1.29	0.08	0.11	1	3.57	0.19 ± 0	0.19	0.20	0.05
	Sodium Chloride 0.2% & Glucose 5% Inj 200ml	1	0.72	17.54 ± 0	17.54	1.06	1.46						
	Sodium Chloride 0.9% Inj 1000ml	21	15.22	10.04 ± 5.98	210.84	12.69	0.83	2	7.14	8.61 ± 0	17.21	17.70	**2.48**
	Sodium Chloride 0.9% Inj 50ml	1	0.72	1.15 ± 0	1.15	0.07	0.10						
	Sodium Chloride 0.9% Inj 200ml	2	1.45	34.62 ± 0	69.24	4.17	**2.88**						
	Water for Inj 10ml	1	0.72	1.11 ± 0	1.11	0.07	0.09						
	Dextrose Sol for IV Infus 5% 50ml	2	1.45	7.87 ± 0	15.74	0.95	0.65						
	Dextrose Sol for IV Infus 5% 1000ml	4	2.90	7.30 ± 0	29.19	1.76	0.61						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Other disorders of fluid & electrolyte balance	Dextrose Sol for IV Infus 10% 1000ml							1	3.57	10.25 ± 0	10.25	10.54	**2.95**
	Destrose Sol for IV Infus 50% 500ml	1	0.72	17.68 ± 0	17.68	1.06	1.47						
	Dextrose in Water Inj 50% 20ml	1	0.72	4.00 ± 0	4.00	0.24	0.33						
	Total	**138**	**100**		**1661.58**	**100**		**28**	**100**		**97.23**	**100**	
Schizo-phrenic disorder	Fluphenazine Decanoate Inj 25mg/ml 1ml							2	50.00	8.82 ± 0	17.64	34.67	0.69
	Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml							2	50.00	16.61 ± 0	33.23	65.32	1.31
	Total							**4**	**100**		**50.87**	**99.99**	
Bipolar affective disorder	Haloperidol Tabs 5mg 14s	1	100.00	0.12 ± 0	0.12	100.00	1.00						
	Total	**1**	**100**		**0.12**	**100**							
Bipolar disorder	Amoxycillin Caps 500mg 15s							1	3.45	3.46 ± 0	3.46	3.93	1.14
	Chlorpromazine Inj 25mg/ml 1ml	1	1.52	0.72 ± 0	0.72	0.11	0.07						
	Chlorpromazine Tabs 50mg 500s	4	6.06	50.53 ± 98.34	202.13	29.71	**4.90**	7	24.14	3.98 ± 1.51	27.88	31.69	1.31
	Chlorpromazine Tabs 100mg 500s							3	10.34	4.99 ± 0	14.98	17.02	1.65
	Haloperidol Inj 5mg/ml 1ml	9	13.64	48.16 ± 14.45	433.46	63.72	**4.67**						
	Haloperidol Tabs 5mg 14s	40	60.61	0.53 ± 0.71	21.00	3.09	0.05	1	3.45	2.04 ± 0	2.04	2.32	0.67
	Haloperidol Tabs 5mg 56s	5	7.58	2.55 ± 0	12.75	1.87	0.25	4	13.79	3.19 ± 1.28	12.75	14.49	1.05
	Chlorpromazine Tabs 25mg 28s	5	7.58	1.46 ± 0.74	7.29	1.07	0.14	13	44.83	2.07 ± 0.99	26.87	30.54	0.68
	Fluoxetine Caps 20mg 28s	2	3.03	1.44 ± 0.53	2.88	0.42	0.14						
	Total	**66**	**100**		**680.23**	**100**		**29**	**100**		**87.97**	**100**	
Major depressive disorder	Amitriptyline Tabs 25mg 28s	68	73.12	14.99 ± 14.15	1019.21	96.29	1.32	**80**	77.67	20.54 ± 5.07	1643.56	95.29	1.23
	Fluoxetine Caps 20mg 28s	23	24.73	1.62 ± 1.10	37.15	3.51	0.14	22	21.36	2.52 ± 0	55.44	3.21	0.15
	Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	1	1.08	1.50 ± 0	1.50	0.14	0.13						
	Imipramine Tabs 25mg 28s							1	0.97	25.80 ± 0	25.80	1.50	1.54
	Hydroxyzine Tabs 25mg 100s	1	1.08	0.62 ± 0	0.62	0.06	0.05						
	Total	**93**	**100**		**1058.48**	**100**		**103**	**100**		**1724.80**	**100**	

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Meningitis, bacterial	Ceftriaxone Inj 1g	4	66.67	12.94 ± 6.58	51.76	90.81	1.36						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	2	33.33	2.62 ± 2.60	5.24	9.19	0.28						
	Total	**6**	**100**		**57.00**	**100**							
Inflammation	Hydrocortisone Cream 1% 20g							8	4.76	3.45 ± 0	27.58	3.31	0.70
	Indomethacin Caps 25mg 28s	12	9.02	1.08 ± 0.70	12.90	0.52	0.06	30	17.86	1.50 ± 0.59	44.89	5.39	0.30
	Indomethacin Supps 100mg 10s	5	3.76	3.65 ± 4.44	18.24	0.73	0.20	3	1.79	23.18 ± 19.09	69.54	8.35	**4.68**
	Sulfasalazine Tabs 500mg 100s							1	0.60	25.46 ± 0	25.46	3.06	**5.14**
	Monosulfiram Soap 5% 75g							2	1.19	4.16 ± 3.20	8.33	1.00	0.84
	Betamethasone Valerate Cream 0.1% 15g	2	1.50	2.85 ± 1.34	5.70	0.23	0.15	6	3.57	1.90 ± 0	11.40	1.37	0.38
	Dexamethasone IM Inj 4mg/ml 1ml	7	5.26	26.33 ± 33.34	184.28	7.42	1.41	1	0.60	4.10 ± 0	4.10	0.49	0.83
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	23	17.29	82.08 ± 72.30	1887.95	76.05	**4.40**	4	2.38	22.28 ± 8.91	89.14	10.71	**4.50**
	Methylprednisolone Inj 40mg/ml 1ml	2	1.50	11.13 ± 5.24	22.25	0.90	0.60	2	1.19	14.83 ± 0	29.67	3.56	**2.99**
	Methylprednisolone Inj 40mg/ml 2ml							1	0.60	8.17 ± 0	8.17	0.98	1.65
	Prednisolone Syr 15mg/5ml 50ml	7	5.26	10.40 ± 9.12	72.79	2.93	0.56	2	1.19	19.83 ± 0	39.67	4.76	**4.00**
	Prednisone Tabs 5mg 28s	**71**	53.38	2.07 ± 2.62	147.12	5.93	0.11	**98**	58.33	2.35 ± 2.15	229.91	27.62	0.47
	Prednisone Tabs 5mg 100s							8	4.76	30.01 ± 24.87	240.09	28.84	**6.06**
	Betamethasone Inj 4mg/ml 1ml							1	0.60	2.62 ± 0	2.62	0.31	0.53
	Calcium Folinate Tabs 15mg							1	0.60	1.90 ± 0	1.90	0.23	0.38
	Diclofenac Inj 25mg/ml 3ml	1	0.75	115.47 ± 0	115.47	4.65	**6.19**						
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	3	2.26	5.23 ± 0.31	15.70	0.63	0.28						
	Total	**133**	**100**		**2482.40**	**100**		**168**	**100**		**832.45**	**100**	
Parkinsonism	Bromocriptine Mesylate Tabs 2.5mg 30s	3	42.86	9.18 ± 2.28	27.53	17.21	0.40	2	100.00	69.00 ± 0	138.00	100.00	1.00
	Biperidin Inj 5mg/ml 5ml	1	14.29	12.80 ± 0	12.80	8.00	0.56						
	Carbidopa 25mg & Levodopa 250mg 100s	3	42.86	39.89 ± 50.81	119.68	74.80	1.75						

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Parkinsonism	**Total**	**7**	**100**		**160.01**	**100**		**2**	**100**		**138.00**	**100**	
Symptomatic epilepsy with complex partial seizures	Amoxycillin Susp 250mg/5ml 100ml	1	10.00	3.83 ± 0	3.83	1.07	0.11						
	Ampicillin Inj 250mg	1	10.00	6.94 ± 0	6.94	1.94	0.19						
	Ampicillin Inj 500mg	1	10.00	8.16 ± 0	8.16	2.28	0.23						
	Gentamicin Inj 40mg/ml 1ml	1	10.00	3.15 ± 0	3.15	0.88	0.09						
	Ceftriaxone IM Inj 250mg	4	40.00	84.00± 59.40	336.00	93.79	**2.34**						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	2	20.00	0.08 ± 0.04	0.17	0.05	0.00						
	Total	**10**	**100**		**358.25**	**100**							
Epilepsy	Ampicillin Inj 250mg	2	1.71	2.31 ± 1.09	4.63	0.19	0.11						
	Gentamicin Inj 80mg/2ml 2ml	1	0.85	2.13 ± 0	2.13	0.09	0.10						
	Carbamazepine Susp 100mg/5ml 250ml							1	0.55	67.89 ± 0	67.89	1.65	**2.99**
	Carbamazepine CR Tabs 200mg 30s	35	29.91	11.96 ± 13.12	418.73	17.44	0.58	**63**	34.81	14.98 ± 8.73	943.81	22.96	0.66
	Carbamazepine CR Tabs 400mg 30s	9	7.69	24.59 ± 16.86	221.28	9.22	1.20	**65**	35.91	33.78 ± 15.17	2195.98	53.43	1.49
	Clonazepam Inj 1mg/ml 1ml	1	0.85	6.09 ± 0	6.09	0.25	0.30						
	Lamotrigine Tabs 25mg 60s	1	0.85	0.50 ± 0	0.50	0.02	0.02	3	1.66	30.00 ± 0	90.00	2.19	1.32
	Lorazepam Inj 4mg/ml 1ml	14	11.97	33.96 ± 30.92	475.49	19.81	1.66						
	Lorazepam Tabs 1mg 100s	1	0.85	2.18 ± 0	2.18	0.09	0.11	3	1.66	6.47 ± 5.57	19.41	0.47	0.28
	Lorazepam Tabs 2.5mg 100s							1	0.55	6.02 ± 0	6.02	0.15	0.27
	Phenobarbitone Tabs 30mg 28s	12	10.26	0.50 ± 0.48	5.94	0.25	0.02	4	2.21	2.57 ± 1.03	10.27	0.25	0.11
	Phenobarbitone Tabs 30mg 56s	5	4.27	2.96 ± 0.74	14.82	0.62	0.14	20	11.05	3.13 ± 1.30	62.59	1.52	0.14
	Phenobarbitone Vit Nicot Syrup 100ml	2	1.71	40.98 ± 28.98	81.96	3.41	2.00	1	0.55	20.49 ± 0	20.49	0.50	0.90
	Phenytoin Caps 100mg 84s	26	22.22	18.02 ± 12.12	468.52	19.52	0.88	5	2.76	26.04 ± 0.03	130.18	3.17	1.15

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Epilepsy	Phenytoin Inj 50mg/ml 5ml	5	4.27	88.43 ± 42.08	442.15	18.42	**4.31**						
	Sodium Valproate Liqiud Sugar Free 200mg 300ml	3	2.56	85.35 ± 0	256.05	10.67	**4.16**	1	0.55	85.35 ± 0	85.35	2.08	**3.76**
	Sodium Valproate Tabs 200mg 28s							5	2.76	35.26 ± 8.76	176.29	4.29	1.55
	Sodium Valproate Tabs Cr 300mg 84s							1	0.55	84.18 ± 0	84.18	2.05	**3.71**
	Valproic Acid Caps 150mg 56s							2	1.10	39.16 ± 0	78.32	1.91	1.72
	Valproic Acid Caps 500mg 100s							2	1.10	41.75 ± 0	83.51	2.03	1.84
	Lamotrigine Tabs 25mg 28s							4	2.21	14.00 ± 0	56.00	1.36	0.62
	Total	**117**	**100**		**2400.47**	**100**		**181**	**100**		**4110.29**	**100**	
Status epileptics, unspecified	Cefotaxime Inj 1g/15ml	1	100.00	12.90 ± 0	12.90	100.00	1.00						
	Total	**1**	**100**		**12.90**	**100**							
Acute inflammation of orbit (cellulites of the eye)	Cloxacillin IV Inj 500mg	2	25.00	51.12 ± 60.25	102.24	73.29	**2.93**						
	Flucloxacillin Caps 250mg 20s	1	12.50	15.60 ± 0	15.60	11.18	0.89						
	Gentamicin Inj 80mg/2ml 2ml	2	25.00	9.59 ± 4.52	19.17	13.74	0.55						
	Metronidazole IV Inj 500mg/ml 100ml	2	25.00	0.13 ± 0.13	0.26	0.19	0.01						
	Metronidazole Tabs 200mg 21s	1	12.50	2.24 ± 0	2.24	1.61	0.13						
	Total	**8**	**100**		**139.51**	**100**							
Conjunctivitis	Amoxycillin Susp 125mg/5ml 100ml							1	3.70	5.23 ± 0	5.23	2.46	0.66
	Acyclovir Tabs 200mg 25s							2	7.41	21.54 ± 0	43.08	20.26	**2.73**
	Chloramphenicol Eye Drops 0.5% 10ml							3	11.11	29.82 ± 0	89.45	42.06	**3.79**
	Chloramphenicol Eye Oint 1% 3.5g	7	87.50	1.92 ± 0.63	13.44	73.97	0.85	8	29.63	1.68 ± 0	13.44	6.32	0.21
	Antazoline Tetrahydrozoline Eye Drops 10ml	1	12.50	4.73 ± 0	4.73	26.03	**2.08**	13	48.15	4.73 ± 0	61.46	28.90	0.60
	Total	**8**	**100**		**18.17**	**100**		**27**	**100**		**212.66**	**100**	
Otitis externa	Amoxycillin Caps 500mg 15s							1	100.00	3.46 ± 0	3.46	100.00	1.00
	Total							**1**	**100**		**3.46**	**100**	

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Otitis media	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	20.00	12.19 ± 0	12.19	31.05	1.55						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	2	40.00	5.63 ± 1.49	11.26	28.68	0.72						
	Erythromycin Susp 125mg/5ml 100ml	1	20.00	7.41 ± 0	7.41	18.87	0.94						
	Erythromycin Tabs 250mg 20s	1	20.00	8.40 ± 0	8.40	21.40	1.07						
	Total	**5**	**100**		**39.26**	**100**							
Rheumatic fever without mention of heart involvement	Amoxycillin Caps 500mg 15s	1	6.67	0.46 ± 0	0.46	0.04	0.01						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	6.67	18.39 ± 0	18.40	1.46	0.22						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	1	6.67	608.24 ± 0	608.24	48.24	**7.24**						
	Gentamicin Inj 80mg/2ml 2ml	2	13.33	28.76 ± 4.52	57.51	4.56	0.34						
	Ketoconazole Tabs 200mg 30s	1	6.67	92.50 ± 0	92.50	7.34	1.10						
	Phenoxymethyl Penicillin Tabs 250mg 20s	1	6.67	10.32 ± 0	10.32	0.82	0.12						
	Ceftriaxone Inj 1g	4	26.67	117.85 ± 57.16	471.39	37.39	1.40						
	Metronidazole IV Inj 500mg/ml 100ml	3	20.00	0.37 ± 0.07	1.11	0.09	0.00						
	Metronidazole Tabs 200mg 21s	1	6.67	0.85 ± 0	0.85	0.07	0.01						
	Total	**15**	**100**		**1260.78**	**100**							
Hypertension	Amoxycillin Caps 500mg 15's	1	0.21	1.15 ± 0	1.15	0.02	0.09						
	Nevirapine Tabs 200mg 60s	3	0.64	26.85 ± 22.97	80.55	1.34	**2.10**						
	Glyceryl Trinitrate SL Tabs 0.5mg 50s							1	0.23	4.29 ± 0	4.29	0.05	0.22
	Amlodipine Besylate Tabs 5mg 30s	12	2.55	5.19 ± 5.48	62.34	1.04	0.41						
	Atenolol Tabs 50mg 28s	39	8.28	0.99 ± 0.90	38.51	0.64	0.08	21	4.77	2.02 ± 0.23	42.48	0.50	0.10
	Atenolol Tabs 100mg 28s	3	0.64	2.15 ± 1.68	6.46	0.11	0.17	4	0.91	3.12 ± 0	12.49	0.15	0.16
	Enalapril Tabs 5mg 28s	17	3.61	137.11 ± 154.60	2330.80	38.71	**10.72**	3	0.68	459.00 ± 0	1377.00	16.13	**23.65**
	Enalapril Tabs 10mg 28s	20	4.25	1.85 ± 1.28	37.10	0.62	0.15	**52**	11.82	2.61 ± 0.79	135.55	1.59	0.13
	Enalapril Tabs 20mg 28s	9	1.91	2.19 ± 1.68	19.69	0.33	0.17	14	3.18	3.60 ± 0	50.46	0.59	0.19

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Hypertension	Furosemide Tabs 40mg 28s	39	8.28	23.34 ± 27.54	910.09	15.11	1.83	37	8.41	36.46 ± 21.74	1349.15	15.80	1.88
	Furosemide Tabs 40mg 56s	4	0.85	2.89 ± 0	11.54	0.19	0.23	2	0.45	30.22 ± 34.57	60.44	0.71	1.56
	Furosemide Tabs 40mg 84's	1	0.21	4.08 ± 0	4.08	0.07	0.32						
	Furosemide Tabs 40mg 250s							1	0.23	3.60 ± 0	3.60	0.04	0.19
	Furosemide Inj 10mg/ml 2ml	33	7.01	6.88 ± 7.35	227.07	3.77	0.54						
	Furosemide Inj 10mg/ml 25ml	2	0.42	21.22 ± 15.00	42.44	0.70	1.66	1	0.23	0.93 ± 0	0.93	0.01	0.05
	Hydralazine Tabs 25mg 500s							1	0.23	6.72 ± 0	6.72	0.08	0.35
	Hydrochlorothiazide Tabs 25mg 14s	19	4.03	7.46 ± 3.15	141.65	2.35	0.58	9	2.05	8.73 ± 1.54	78.57	0.92	0.45
	Hydrochlorothiazide Tabs 25mg 28s	**71**	15.07	0.52 ± 0.41	36.82	0.61	0.04	**116**	26.36	0.98 ± 0.56	113.42	1.33	0.05
	Indapamide Tabs 2.5mg 30s	18	3.82	1.05 ± 1.57	18.83	0.31	0.08	14	3.18	4.03 ± 1.22	56.35	0.66	0.21
	Mannitol Inj for IV use 20% 50ml	1	0.21	210.00 ± 0	210.00	3.49	**16.43**						
	Methyldopa Tabs 250mg 56s	1	0.21	0.72 ± 0	0.72	0.01	0.06	1	0.23	20.40 ± 0	20.40	0.24	1.05
	Nifedipine Caps 5mg 100s	10	2.12	0.49 ± 0.38	4.89	0.08	0.04	1	0.23	0.16 ± 0	0.16	0.00	0.01
	Nifedipine Tabs SR 30mg 28s	22	4.67	14.31 ± 9.71	314.86	5.23	1.12	35	7.95	22.11 ± 0	773.99	9.06	1.14
	Nifedipine Tabs SR 60mg 28s	19	4.03	41.22 ± 33.97	783.23	13.01	**3.22**	44	10.00	59.05 ± 5.70	2598.33	30.43	**3.04**
	Perindopril Tabs 4mg 28s	**93**	19.75	6.08 ± 5.68	565.29	9.39	0.48	**59**	13.41	12.91 ± 4.20	761.90	8.92	0.67
	Prazosin Tabs 1mg 14s	1	0.21	28.39 ± 0	28.39	0.47	**2.22**	8	1.82	15.38 ± 4.20	123.03	1.44	0.79
	Prazosin Tabs 5mg 30s							3	0.68	165.17 ± 0	495.50	5.80	**8.51**
	Propranolol Tabs 10mg 60s	3	0.64	0.37 ± 0.28	1.10	0.02	0.03	2	0.45	0.83 ± 0.70	1.65	0.02	0.04
	Propranolol Tabs 40mg 28s	1	0.21	0.88 ± 0	0.88	0.01	0.07						
	Spironolactone Tabs 25mg 240s	15	3.18	5.00 ± 6.71	75.03	1.25	0.39	11	2.50	42.96 ± 27.68	472.51	5.53	**2.21**
	Spironolactone Tabs 25mg 14s	13	2.76	4.70 ± 6.84	61.14	1.02	0.37						
	Digoxin Tabs 0.25mg 14s	1	0.21	6.74 ± 0	6.74	0.11	0.53						
	Total	**471**	**100**		**6021.39**	**100**		**440**	**100**		**8538.90**	**100**	
Angina	Amoxycillin Caps 500mg 15s	1	9.09	3.46 ± 0	3.46	7.99	0.88						
	Glyceryl Trinitrate SL Tabs 0.5mg 50s	9	81.82	1.43 ± 1.29	12.87	29.72	0.36	8	100.00	5.15 ± 3.18	41.22	100.00	1.00
	Lorazepam Inj 4mg/ml 1ml	1	9.09	26.98 ± 0	26.98	62.30	**6.85**						
	Total	**11**	**100**		**43.31**	**100**		**8**	**100**		**41.22**	**100**	
Congestive cardiac failure	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	4	30.77	18.39 ± 0	73.58	9.82	0.32						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Congestive cardiac failure	Ampicillin Inj 500mg	4	30.77	167.26 ± 96.42	669.04	89.26	**2.90**						
	Co-trimoxazole Tabs 480mg 20s	1	7.69	1.80 ± 0	1.80	0.24	0.03						
	Doxycycline Caps 100mg 14s	2	15.38	1.00 ± 0.78	2.01	0.27	0.02						
	Metronidazole Tabs 200mg 21s	2	15.38	1.55 ± 0.98	3.09	0.41	0.03						
	Total	**13**	**100**		**749.52**	**100**							
Cardial failure	Digoxin Tabs 0.25mg 14s	13	92.86	2.60 ± 2.28	33.81	89.26	0.96	14	82.35	3.85 ± 1.22	53.92	81.54	0.99
	Digoxin Tabs 0.25mg 28s	1	7.14	4.07 ± 0	4.07	10.74	1.50	3	17.65	4.07 ± 0	12.21	18.46	1.05
	Total	**14**	**100**		**37.88**	**100**		**17**	**100**		**66.13**	**100**	
Arterio-sclerotic gangerene	Ampicillin Inj 500mg	1	50.00	146.86 ± 0	146.86	82.13	1.64						
	Gentamicin Inj 80mg/2ml 2ml	1	50.00	31.95 ± 0	31.95	17.87	0.36						
	Total	**2**	**100**		**178.81**	**100**							
Haemorrhoids	Flucloxacillin Caps 250mg 20s							1	9.09	15.60 ± 0	15.60	10.93	1.20
	Metronidazole Tabs 200mg 21s							1	9.09	1.12 ± 0	1.12	0.78	0.09
	Bismuth Sub Oxi Res Nic Zinc Oint 25g							1	9.09	13.40 ± 0	13.40	9.39	1.03
	Bismuth Sub Oxi Res Nic Ainc Supps 10s	6	100.00	7.74 ± 5.68	46.43	100.00	1.00	8	72.73	14.07 ± 0	112.56	78.89	1.08
	Total	**6**	**100**		**46.43**	**100**		**11**	**100**		**142.68**	**100**	
Sinusitis	Amoxycillin Caps 500mg 15s	1	33.33	5.76 ± 0	5.76	70.85	**2.13**						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s							1	4.35	18.39 ± 0	18.39	22.88	**5.26**
	Oxymetazoline Nose Drops 0.025% 10ml							1	4.35	7.37 ± 0	7.37	9.17	**2.11**
	Sodium Chloride Nose Drops 0.9% 10ml	1	33.33	0.02 ± 0	0.02	0.25	0.01	12	52.17	2.75 ± 0	33.00	41.05	0.79
	Pseudoephedrine Sulphate Syr 30mg/5ml 50ml							1	4.35	2.82 ± 0	2.82	3.50	0.81
	Pseudoephedrine Tabs 60mg 20s	1	33.33	2.35 ± 0	2.35	28.91	0.87	8	34.78	2.35 ± 0	18.81	23.40	0.67
	Total	**3**	**100**		**8.13**	**100**		**23**	**100**		**80.38**	**100**	
Tonsillitis (bacterial)	Amoxycillin Caps 500mg 15s							1	20.00	3.46 ± 0	3.46	7.00	
	Amoxycillin Susp 250mg/5ml 100ml	1	10.00	3.83 ± 0	3.83	2.12	0.21						

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Tonsillitis (bacterial)	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	10.00	18.39 ± 0	18.39	10.18	1.02						
	Ampicillin Inj 250mg	1	10.00	23.15 ± 0	23.15	12.81	1.28						
	Ampicillin Inj 500mg	2	20.00	28.56 ± 28.85	57.11	31.60	1.58						
	Benzathine Penicillin G Inj. 2.4Mu Vials							2	40.00	11.98 ± 0	23.97	48.54	1.21
	Gentamicin Inj 80mg/2ml 2ml	3	30.00	2.84 ± 1.23	8.52	4.71	0.16						
	Phenoxymethyl Penicillin Tabs 250mg 20s							1	20.00	5.16 ± 0	5.16	10.45	0.52
	Cefotaxime Inj 500mg	1	10.00	51.21 ± 0	51.21	28.34	**2.83**						
	Ceftriaxone Inj 1g	1	10.00	18.49 ± 0	18.49	10.23	1.02						
	Erythromycin Tabs 250mg 20s							1	20.00	16.80 ± 0	16.80	34.02	1.70
	Total	**10**	**100**		**180.70**	**100**		**5**	**100**		**49.38**	**100.01**	
Gastro-enteritis	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	20.00	12.19 ± 0	12.19	41.58	**2.08**						
	Ampicillin Inj 250mg	2	40.00	5.94 ± 6.87	11.88	40.52	1.01						
	Gentamicin Inj 40mg/ml 1ml	2	40.00	2.63 ± 0	5.25	17.91	0.45						
	Total	**5**	**100**		**29.32**	**100**							
Acute upper respiratory track infection, unspecified	Amoxycillin Caps 500mg 15s							5	31.25	3.26 ± 0.45	16.28	15.38	0.49
	Amoxycillin Susp 125mg/5ml 100ml							3	18.75	2.61 ± 0	7.84	7.41	0.40
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml							2	12.50	7.40 ± 6.77	14.80	13.98	1.12
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s							4	25.00	14.14 ± 8.50	56.58	53.45	**2.14**
	Ampicillin Inj 250mg	1	50.00	11.11 ± 0	11.11	72.57	1.45						
	Gentamicin Inj 40mg/ml 1ml	1	50.00	4.20 ± 0	4.20	27.43	0.55						
	Ceftriaxone Inj 1g							1	6.25	9.24 ± 0	9.24	8.73	1.40
	Co-trimoxazole Susp 200/40mg/5ml 50ml							1	6.25	1.11 ± 0	1.11	1.05	0.17
	Total	**2**	**100**		**15.31**	**100**		**16**	**100**		**105.85**	**100**	

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Brongo-pneomonia, unspecified	Amoxycillin Caps 500mg 15s	1	2.22	3.46 ± 0	3.46	0.24	0.11	1	100.00	3.46 ± 0	3.46	100.00	1.00
	Amoxycillin Susp 125mg/5ml 100ml	2	4.44	2.61 ± 0	5.23	0.37	0.08						
	Amoxycillin Susp 250mg/5ml 100ml	2	4.44	3.83 ± 0	7.66	0.54	0.12						
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	2.22	12.19 ± 0	12.19	0.86	0.39						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	2.22	18.39 ± 0	18.39	1.30	0.58						
	Ampicillin Inj 250mg	11	24.44	13.54 ± 9.93	148.90	10.50	0.43						
	Ampicillin Inj 500mg	4	8.89	46.91 ± 72.17	187.66	13.23	1.49						
	Gentamicin Inj 40mg/ml 1ml	6	13.33	2.71 ± 1.63	16.28	1.15	0.09						
	Gentamicin Inj 80mg/2ml 2ml	8	17.78	10.45 ± 12.40	83.60	5.90	0.33						
	Ceftriaxone IM Inj 250mg	2	4.44	462.00 ± 534.57	924.00	65.16	**14.66**						
	Co-trimoxazole Tabs 480mg 20s	1	2.22	0.99 ± 0	0.99	0.07	0.03						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	2.22	4.53 ± 0	4.53	0.32	0.14						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	4	8.89	1.03 ± 0.88	4.14	0.29	0.03						
	Metronidazole Tabs 200mg 21s	1	2.22	1.12 ± 0	1.12	0.08	0.04						
	Total	**45**	**100**		**1418.15**	**100**		**1**	**100**		**3.46**	**100**	
Pneumonia, unspecified	Amoxycillin Caps 250mg 15s	1	1.18	1.82 ± 0	1.82	0.05	0.05						
	Amoxycillin Caps 500mg 15s	2	2.35	3.46 ± 0	6.91	0.20	0.09						
	Amoxycillin Susp 125mg/5ml 100ml	3	3.53	1.83 ± 1.36	5.49	0.16	0.05						
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	4	4.71	102.72 ± 112.52	410.88	12.08	**2.57**						
	Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	1	1.18	12.19 ± 0	12.19	0.36	0.30						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	10	11.76	18.39 ± 0	183.94	5.41	0.46						
	Ampicillin Inj 250mg	3	3.53	12.65 ± 10.98	37.96	1.12	0.32						
	Ampicillin Inj 500mg	11	12.94	144.64 ± 75.76	1591.01	46.78	**3.61**						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Pneumonia, unspecified	Fluconazole Caps 200mg 28s	2	2.35	6.58 ± 5.56	13.16	0.39	0.16						
	Gentamicin Inj 40mg/ml 1ml	2	2.35	3.94 ± 1.11	7.88	0.23	0.10						
	Gentamicin Inj 80mg/2ml 2ml	10	11.76	19.70 ± 10.92	197.03	5.79	0.49						
	Ketoconazole Tabs 200mg 30s	3	3.53	66.79 ± 44.54	200.36	5.89	1.67						
	Ceftriaxone IM Inj 250mg	3	3.53	212.80 ± 108.01	638.40	18.77	**5.32**						
	Ceftriaxone Inj 1g	2	2.35	18.49 ± 13.07	36.97	1.09	0.46						
	Co-trimoxazole Tabs 480mg 20s	7	8.24	0.83 ± 0.53	5.84	0.17	0.02						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	5	5.88	4.99 ± 2.48	24.93	0.73	0.12						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	4	4.71	0.70 ± 0.46	2.79	0.08	0.02						
	Erythromycin Tabs 250mg 20s	1	1.18	16.80 ± 0	16.80	0.49	0.42						
	Metronidazole IV Inj 500mg/ml 100ml	7	8.24	0.29 ± 0.16	2.04	0.06	0.01						
	Metronidazole Tabs 200mg 21s	4	4.71	1.16 ± 0.85	4.64	0.14	0.03						
	Total	**85**	**100**		**3401.04**	**100**							
Allergic rhinitis	Chlorpheniramine Mal Tabs 4mg 30s							1	100.00	2.19 ± 0	2.19	100.00	1.00
	Total							**1**	**100**		**2.19**	**100**	
Chronic obstructive pulmonary disease with acute lower respiratory infection	Amoxycillin Caps 250mg 15s							1	20.00	1.82 ± 0	1.82	12.93	0.65
	Amoxycillin Caps 500mg 15s							1	20.00	3.46 ± 0	3.46	24.60	1.23
	Amoxycillin Susp 125mg/5ml 100ml	5	14.29	2.61 ± 0	13.07	2.32	0.16						
	Amoxycillin Susp 250mg/5ml 100ml							2	40.00	3.83 ± 0	7.66	54.55	1.36
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	2.86	18.39 ± 0	18.39	3.26	1.14						
	Ampicillin Inj 250mg	5	14.29	7.81 ± 9.91	39.06	6.92	0.48						
	Ampicillin Inj 500mg	5	14.29	42.10 ± 35.21	210.50	37.29	**2.61**						
	Benzylpenicillin G Inj 1Mu 50s	1	2.86	3.36 ± 0	3.36	0.60	0.21						
	Gentamicin Inj 40mg/ml 1ml	7	20.00	2.26 ± 1.26	15.78	2.80	0.14						
	Gentamicin Inj 80mg/2ml 2ml	1	2.86	4.26 ± 0	4.26	0.75	0.26						
	Ceftriaxone IM Inj 250mg	2	5.71	126.00 ± 59.40	252.00	44.64	**7.81**						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Chronic obstructive pulmonary disease with acute lower respiratory infection	Co-trimoxazole Tabs 480mg 20s	2	5.71	0.14 ± 0.06	0.27	0.05	0.01						
	Co-trimoxazole Susp 200/40mg/5ml 50ml	6	17.14	1.30 ± 0.81	7.80	1.38	0.08	1	20.00	1.11 ± 0	1.11	7.93	0.40
	Total	**35**	**100**		**564.49**	**100**		**5**	**100**		**14.05**	**100.01**	
Asthma, acute OR asthma, chronic persistent	Amoxycillin Caps 500mg 15s	1	0.68	3.46 ± 0	3.46	0.29	0.43						
	Fludrocortisone Acetate Tabs 0.1mg 100's							1	0.66	17.83 ± 0	17.83	0.91	1.39
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	2	1.35	35.66 ± 25.21	71.31	6.01	**4.45**	2	1.32	26.74 ± 12.61	53.48	2.74	**2.08**
	Methylprednisolone Inj 40mg/ml 1ml							1	0.66	14.83 ± 0	14.83	0.76	1.15
	Prednisolone Syr 15mg/5ml 50ml	4	2.70	12.42 ± 8.65	49.68	4.19	1.55						
	Prednisone Tabs 5mg 28s	24	16.22	2.13 ± 1.53	51.00	4.30	0.27	20	13.16	3.35 ± 2.63	66.96	3.43	0.26
	Prednisone Tabs 5mg 100s	1	0.68	53.25 ± 0	53.25	4.49	**6.64**						
	Beclomethasone MDI 100mg 200 dose	2	1.35	20.36 ± 28.50	40.71	3.43	**2.54**	13	8.55	40.51 ± 0.00	526.60	26.98	**3.15**
	Beclomethasone nasal Spray Aqueous 50mg	1	0.68	14.54 ± 0	14.54	1.23	1.81						
	Budesonide MDI 200mg 300 dose	1	0.68	49.02 ± 0	49.02	4.13	**6.12**	1	0.66	49.02 ± 0	49.02	2.51	**3.82**
	Fenoterol Inhaler Complete 100	1	0.68	0.33 ± 0	0.33	0.03	0.04						
	Fenoterol UDV 0.5mg/2ml 60s	9	6.08	20.28 ± 27.43	182.56	15.39	**2.53**	3	1.97	25.56 ± 28.53	76.68	3.93	1.99
	Ipratropium UDV 0.25mg/2ml 2ml 60s	3	2.03	2.66 ± 0.59	7.98	0.67	0.33						
	Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s							1	0.66	1.85 ± 0	1.85	0.09	0.14
	Salbutamol MDI Complete 100mg 200 dose	9	6.08	17.54 ± 5.26	157.89	13.31	**2.19**	31	20.39	15.79 ± 0	489.46	25.08	1.23
	Salbutamol Syr 2mg/5ml 150ml	17	11.49	4.16 ± 1.77	70.76	5.97	0.52	4	2.63	5.59 ± 0	22.35	1.15	0.44
	Salbutamol Tabs 2mg 28s	1	0.68	0.11 ± 0	0.11	0.01	0.01	2	1.32	2.62 ± 0.53	5.24	0.27	0.20

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Asthma, acute OR asthma, chronic persistent	Salbutamol UDV Inh Sol 2.5mg/2.5ml 30's	10	6.76	17.43 ± 18.82	174.28	14.69	**2.17**	7	4.61	17.44 ± 20.58	122.10	6.26	1.36
	Salmeterol Accuhaler 0.05mg 60 Dose							2	1.32	15.79 ± 0	31.58	1.62	1.23
	Theophylline Syr 200ml	**51**	34.46	4.02 ± 1.94	204.95	17.28	0.50	47	30.92	5.52 ± 0.79	259.39	13.29	0.43
	Theophylline Syr 25mg/5ml 500ml	1	0.68	3.02 ± 0	3.02	0.25	0.38						
	Theophylline Anhydrous Tabs 200mg 60s	5	3.38	7.67 ± 6.14	38.34	3.23	0.96	14	9.21	12.49 ± 4.58	174.84	8.96	0.97
	Theophylline Anhydrous Tabs 250mg 56s	5	3.38	2.59 ± 2.37	12.96	1.09	0.32	3	1.97	13.20 ± 0	39.60	2.03	1.03
	Total	**148**	**100**		**1186.15**	**100**		**152**	**100**		**1951.79**	**100**	
Abscess of the lung without pneumonia	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	4.55	164.35 ± 0	164.35	18.16	**3.99**						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	3	13.64	18.39 ± 0	55.18	6.10	0.45						
	Ampicillin Inj 500mg	2	9.09	93.83 ± 63.46	187.66	20.73	2.28						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	1	4.55	304.12 ± 0	304.12	33.60	**7.39**						
	Gentamicin Inj 80mg/2ml 2ml	5	22.73	20.87 ± 9.45	104.37	11.53	0.51						
	Ceftriaxone Inj 1g	1	4.55	64.70 ± 0	64.70	7.15	1.57						
	Co-trimoxazole Tabs 480mg 20s	2	9.09	1.17 ± 0.64	2.34	0.26	0.03						
	Erythromycin Tabs 250mg 20s	1	4.55	16.80 ± 0	16.80	1.86	0.41						
	Metronidazole IV Inj 500mg/ml 100ml	4	18.18	0.29 ± 0.15	1.15	0.13	0.01						
	Metronidazole Tabs 200mg 21s	2	9.09	2.24 ± 0	4.48	0.49	0.05						
	Total	**22**	**100**		**905.15**	**100**							
Haemothorax	Amoxycillin Caps 500mg 15s	1	50.00	3.46 ± 0	3.46	15.84	0.32						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	50.00	18.39 ± 0	18.39	84.16	1.68						
	Total	**2**	**100**		**21.85**	**100**							

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Dental abscess	Amoxycillin Caps 250mg 15s							1	3.13	1.82 ± 0	1.82	3.94	1.26
	Amoxycillin Susp 125mg/5ml 100ml	1	10.00	2.61 ± 0	2.61	31.52	**3.15**	1	3.13	2.61 ± 0	2.61	5.67	1.82
	Ciprofloxacin Tabs 500mg 10s							1	3.13	1.27 ± 0	1.27	2.76	0.88
	Metronidazole Tabs 200mg 21s	1	10.00	0.05 ± 0	0.05	0.60	0.06	1	3.13	1.12 ± 0	1.12	2.43	0.78
	Metronidazole Susp 200mg/5ml 50ml							1	3.13	6.62 ± 0	6.62	14.37	**4.60**
	Thymol Glycerine B.P. Mouth wash 100ml	8	80.00	0.80 ± 0.49	5.62	67.87	0.85	27	84.38	1.21 ± 0.13	32.62	70.81	0.84
	Total	**10**	**100**		**8.28**	**100**		**32**	**100**		**46.07**	**99.99**	
Mouth abscess	Amoxycillin Caps 250mg 15s	1	4.55	0.85 ± 0	0.85	0.09	0.02	1	14.29	1.82 ± 0	1.82	5.59	0.39
	Amoxycillin Susp 125mg/5ml 100ml							1	14.29	2.61 ± 0	2.61	8.02	0.56
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	4.55	18.39 ± 0	18.39	1.94	0.43						
	Ampicillin Inj 250mg	2	9.09	10.03 ± 1.09	20.06	2.11	0.23						
	Ampicillin Inj 500mg	3	13.64	141.42 ± 140.69	424.27	44.68	**3.28**						
	Benzylpenicillin G Inj 1Mu 50s	1	4.55	40.32 ± 0	40.32	4.25	0.93						
	Ciprofloxacin Tabs 500mg 10s							1	14.29	2.55 ± 0	2.55	7.82	0.55
	Flucloxacillin Caps 250mg 20s	1	4.55	7.80 ± 0	7.80	0.82	0.18	1	14.29	15.60 ± 0	15.60	47.90	**3.35**
	Gentamicin Inj 80mg/2ml 2ml	4	18.18	10.65 ± 3.01	42.60	4.49	0.25						
	Phenoxymethyl Penicillin Tabs 250mg 20s	1	4.55	5.16 ± 0	5.16	0.54	0.12						
	Cefazolin Inj 500mg	1	4.55	330.53 ± 0	330.53	34.81	**7.66**						
	Ceftriaxone Inj 1g	1	4.55	55.46 ± 0	55.46	5.84	1.28						
	Co-trimoxazole Tabs 480mg 20s	2	9.09	0.63 ± 0.13	1.26	0.13	0.01						
	Metronidazole IV Inj 500mg/ml 100ml	3	13.64	0.21 ± 0.24	0.63	0.07	0.00						
	Metronidazole Tabs 200mg 21s	1	4.55	2.24 ± 0	2.24	0.24	0.05	2	28.57	1.68 ± 0.79	3.36	10.32	0.36
	Metronidazole Susp 200mg/5ml 50ml							1	14.29	6.62 ± 0	6.62	20.34	1.42
	Total	**22**	**100**		**949.57**	**100**		**7**	**100**		**32.56**	**99.99**	

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Peptic ulcer	Amoxycillin Caps 500mg 15s	2	13.33	3.11 ± 0.49	6.22	1.04	0.08						
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	6.67	61.63 ± 0	61.63	10.26	1.54						
	Ampicillin Inj 500mg	3	20.00	133.26 ± 96.65	399.79	66.53	**3.33**						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	1	6.67	121.65 ± 0	121.65	20.24	**3.04**						
	Gentamicin Inj 80mg/2ml 2ml	1	6.67	6.48 ± 0	6.48	1.08	0.16						
	Co-trimoxazole Tabs 480mg 20s	1	6.67	0.72 ± 0	0.72	0.12	0.02						
	Metronidazole IV Inj 500mg/ml 100ml	3	20.00	0.22 ± 0.16	0.67	0.11	0.01						
	Metronidazole Tabs 200mg 21s	3	20.00	1.26 ± 0.92	3.79	0.63	0.03						
	Total	**15**	**100**		**600.95**	**100**							
Gastritis - acute, haemorrhagic	Amoxycillin Caps 500mg 15s	7	28.00	3.36 ± 2.68	23.50	5.26	0.19						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	4.00	9.80 ± 0	9.80	2.19	0.55						
	Ampicillin Inj 500mg	3	12.00	97.91 ± 127.45	293.72	65.74	**5.48**						
	Flucloxacillin Caps 250mg 20s	1	4.00	15.60 ± 0	15.60	3.49	0.87						
	Fluconazole Inj for IV Infus 2mg/ml 100ml	1	4.00	60.82 ± 0	60.82	13.61	**3.40**						
	Gentamicin Inj 80mg/2ml 2ml	3	12.00	10.65 ± 7.38	31.95	7.15	0.60						
	Ketoconazole Tabs 200mg 30s	1	4.00	1.85 ± 0	1.85	0.41	0.10						
	Co-trimoxazole Tabs 480mg 20s	1	4.00	1.35 ± 0	1.35	0.30	0.08						
	Metronidazole IV Inj 500mg/ml 100ml	2	8.00	0.17 ± 0.18	0.33	0.07	0.01						
	Metronidazole Tabs 200mg 21s	5	20.00	1.58 ± 0.93	7.89	1.77	0.09						
	Total	**25**	**100**		**446.81**	**100**							
Appendicitis, unspecified	Ampicillin Inj 500mg	1	33.33	130.54 ± 0	130.54	90.94	**2.73**						
	Gentamicin Inj 80mg/2ml 2ml	1	33.33	12.78 ± 0	12.78	8.90	0.27						
	Metronidazole IV Inj 500mg/ml 100ml	1	33.33	0.22 ± 0	0.22	0.15	0.00						
	Total	**3**	**100**		**143.54**	**100**							

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Urinary tract infection	Amoxycillin Caps 500mg 15s	1	33.33	2.53 ± 0	2.53	34.47	1.03						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	33.33	4.53 ± 0	4.53	61.72	1.85						
	Metronidazole Tabs 200mg 21s	1	33.33	0.28 ± 0	0.28	3.81	0.11						
	Total	**3**	**100**		**7.34**	**100**							
Constipation	Ampicillin Inj 250mg	1	2.86	6.17 ± 0	6.17	0.87	0.31						
	Ampicillin Inj 500mg	3	8.57	146.86 ± 157.37	440.59	62.27	**7.26**						
	Ketoconazole Tabs 200mg 30s	2	5.71	50.88 ± 58.87	101.75	14.38	**2.52**						
	Co-trimoxazole Tabs 480mg 20s	3	8.57	1.41 ± 1.00	4.23	0.60	0.07						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	2.86	4.53 ± 0	4.53	0.64	0.22						
	Bisacodyl Supps 10mg 10s	1	2.86	15.16 ± 0	15.16	2.14	0.75						
	Glycerine Supps Adult 12s	1	2.86	23.25 ± 0	23.25	3.29	1.15						
	Lactulose Syr 3.35mg/5ml 150ml	8	22.86	8.95 ± 9.98	71.61	10.12	0.44	2	20.00	9.74 ± 0	19.49	34.94	1.75
	Senna Tabs 1000s	2	5.71	1.66 ± 1.41	3.31	0.47	0.08						
	Senna Tabs 7.5mg 12s	4	11.43	2.42 ± 0.45	9.70	1.37	0.12	2	20.00	2.65 ± 0	5.30	9.50	0.47
	Sodium Phosphate Enema Sol 135ml	1	2.86	4.26 ± 0	4.26	0.60	0.21						
	Liquid Paraffin 200ml	8	22.86	2.88 ± 1.48	23.02	3.25	0.14	6	60.00	5.16 ± 1.81	30.99	55.56	0.93
	Total	**35**	**100**		**707.58**	**100**		**10**	**100**		**55.78**	**99.99**	
Alhohol liver disease, unspecified	Ampicillin Inj 500mg	1	25.00	326.36 ± 0	326.36	94.41	**3.78**						
	Fluconazole Caps 200mg 28s	1	25.00	15.73 ± 0	15.73	4.55	0.18						
	Co-trimoxazole Tabs 480mg 20s	2	50.00	1.80 ± 1.53	3.60	1.04	0.02						
	Total	**4**	**100**		**345.69**	**100**							
Gastro-intestinal haemorrhage, unspecified	Amoxycillin Caps 500mg 15s	1	50.00	2.99 ± 0	2.99	88.99	1.78						
	Metronidazole IV Inj 500mg/ml 100ml	1	50.00	0.37 ± 0	0.37	11.01	0.22						
	Total	**2**	**100**		**3.36**	**100**							
Abdominal cramps	Amoxycillin Caps 500mg 15s							1	4.76	3.46 ± 0	3.46	4.81	1.01
	Ampicillin Inj 250mg	1	3.23	0.93 ± 0	0.93	0.53	0.17						
	Ampicillin Inj 500mg	1	3.23	65.27 ± 0	65.27	37.42	**11.60**						
	Gentamicin Inj 40mg/ml 1ml	1	3.23	0.53 ± 0	0.53	0.30	0.09						
	Gentamicin Inj 80mg/2ml 2ml	1	3.23	12.78 ± 0	12.78	7.33	**2.27**						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Abdominal cramps	Metronidazole IV Inj 500mg/ml 100ml	1	3.23	0.15 ± 0	0.15	0.09	0.03						
	Orphenadrine Tabs 50mg 28s							1	4.76	4.93 ± 0	4.93	6.85	1.44
	Metoclopramide Inj 5mg/ml 2ml	1	3.23	21.30 ± 0	21.30	12.21	**3.79**						
	Metoclopramide Tabs 10mg 10s	1	3.23	1.30 ± 0	1.30	0.75	0.23						
	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	13	41.94	2.23 ± 1.58	29.04	16.65	0.40	5	23.81	1.12 ± 0	5.59	7.77	0.33
	Hyoscine-N-Butylbromide Syr 100ml	1	3.23	19.99 ± 0	19.99	11.46	**3.55**	1	4.76	19.99 ± 0	19.99	27.81	**5.84**
	Hyoscine-N-Butylbromide Tabs 10mg 10s	10	32.26	2.32 ± 1.40	23.15	13.27	0.41	8	38.10	3.12 ± 1.01	24.99	34.77	0.91
	Hyoscine-N-Butylbromide Inj 50mg/ml							2	9.52	2.50 ± 1.41	5.00	6.95	0.73
	Hyoscine-N-Butylbromide Inj 50mg/ml							3	14.29	2.64 ± 1.32	7.93	11.04	0.77
	Total	**31**	**100**		**174.44**	**100**		**21**	**100**		**71.88**	**100**	
Boils / impetigo	Amoxycillin Susp 125mg/5ml 100ml	2	66.67	1.50 ± 1.57	3.01	17.36	0.26	1	100.00	2.61 ± 0	2.61	100.00	1.00
	Cefotaxime Inj 1g/15ml	1	33.33	14.33 ± 0	14.33	82.64	**2.48**						
	Total	**3**	**100**		**17.34**	**100**		**1**	**100**		**2.61**	**100**	
Unspecified cellulites	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	2	12.50	61.63 ± 58.11	123.26	25.75	2.06						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	4	25.00	18.39 ± 0	73.58	15.37	0.61						
	Ampicillin Inj 500mg	2	12.50	114.23 ± 23.08	228.45	47.72	**3.82**						
	Cloxacillin IV Inj 500mg	1	6.25	34.08 ± 0	34.08	7.12	1.14						
	Gentamicin Inj 80mg/2ml 2ml	1	6.25	12.78 ± 0	12.78	2.67	0.43						
	Metronidazole IV Inj 500mg/ml 100ml	3	18.75	0.31 ± 0.15	0.93	0.19	0.01						
	Metronidazole Tabs 200mg 21s	3	18.75	1.87 ± 0.65	5.60	1.17	0.06						
	Total	**16**	**100**		**478.68**	**100**							
Dermatitis herpetiformis	Ampicillin Inj 500mg	1	33.33	57.11 ± 0	57.11	62.16	1.86						
	Flucloxacillin Caps 250mg 20s	1	33.33	15.60 ± 0	15.60	16.98	0.51						

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Dermatitis herpetiformis	Gentamicin Inj 80mg/2ml 2ml	1	33.33	19.17 ± 0	19.17	20.86	0.63						
	Total	**3**	**100**		**91.88**	**100**							
Rash	Calamine Lotion 100ml	1	100.00	1.22 ± 0	1.22	100.00	1.00						
	Zinc & Castor Oil Oint 25g							2	66.67	0.83 ± 0	1.66	12.40	0.19
	Betamethasone In Uea Cream 10% 500g							1	33.33	11.73 ± 0	11.73	87.60	**2.63**
	Total	**1**	**100**		**1.22**	**100**		**3**	**100**		**13.39**	**100**	
Pruritus	Calamine Lotion 100ml							3	20.00	1.22 ± 0	3.67	10.97	0.55
	Hydrocortisone Cream 1% 20g							4	26.67	3.45 ± 0	13.79	41.27	1.55
	Indomethacin Caps 25mg 28s							5	33.33	1.67 ± 0.93	8.35	25.00	0.75
	Betamethasone Valerate Cream 0.1% 15g							3	20.00	2.53 ± 1.10	7.60	22.75	1.14
	Total							**15**	**100**		**33.41**	**99.99**	
Psoriasis	Methotrexate Tabs 2.5mg 100s							12	100.00	9.07 ± 4.44	108.80	100.00	1.00
	Total							**12**	**100**		**108.80**	**100**	
Septic arthritis, acute	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	7.14	18.39 ± 0	18.39	4.79	0.67						
	Ampicillin Inj 500mg	1	7.14	146.86 ± 0	146.86	38.28	**5.36**						
	Cloxacillin IV Inj 500mg	1	7.14	127.80 ± 0	127.80	33.31	**4.66**						
	Flucloxacillin Caps 250mg 20s	2	14.29	7.41 ± 9.37	14.82	3.86	0.27						
	Gentamicin Inj 80mg/2ml 2ml	1	7.14	25.56 ± 0	25.56	6.66	0.93						
	Ceftriaxone Inj 1g	2	14.29	18.49 ± 0	36.97	9.64	0.67						
	Doxycycline Caps 100mg 14s	1	7.14	3.11 ± 0	3.11	0.81	0.11						
	Metronidazole IV Inj 500mg/ml 100ml	1	7.14	0.33 ± 0	0.33	0.09	0.01						
	Metronidazole Tabs 200mg 21s	4	28.57	2.45 ± 2.88	9.81	2.56	0.09						
	Total	**14**	**100**		**383.65**	**100**							
Gout	Allopurinol Tabs 300mg 30s	2	40.00	3.31 ± 4.28	6.61	6.63	0.17	2	66.67	9.50 ± 4.48	18.99	63.92	0.96
	Colchicine Tabs 1mg 60s	3	60.00	31.04 ± 32.43	93.13	93.37	1.56	1	33.33	10.72 ± 0	10.72	36.08	1.08
	Total	**5**	**100**		**99.74**	**100**		**3**	**100**		**29.71**	**100**	
Muscle relaxant	Naloxone Inj 0.4mg/ml 1ml							1	5.26	1.40 ± 0	1.40	1.55	0.30
	Orphenadrine Tabs 50mg 28s	16	100.00	2.78 ± 2.86	44.51	100.00	1.00	18	94.74	4.93 ± 0	88.65	98.45	1.04
	Total	**16**	**100**		**44.51**	**100**		**19**	**100**		**90.05**	**100**	

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Nephritis	Amoxycillin Caps 500mg 15s	1	20.00	3.46 ± 0	3.46	1.34	0.07						
	Ampicillin Inj 500mg	1	20.00	228.45 ± 0	228.45	88.22	4.41						
	Gentamicin Inj 80mg/2ml 2ml	1	20.00	25.56 ± 0	25.56	9.87	0.49						
	Metronidazole IV Inj 500mg/ml 100ml	1	20.00	0.37 ± 0	0.37	0.14	0.01						
	Metronidazole Tabs 200mg 21s	1	20.00	1.12 ± 0	1.12	0.43	0.02						
	Total	**5**	**100**		**258.96**	**100**							
Chronic obstructive pyelonephritis	Ampicillin Inj 500mg	1	33.33	97.91 ± 0	97.91	91.10	**2.73**						
	Ceftriaxone Inj 1g	1	33.33	9.24 ± 0	9.24	8.60	0.26						
	Doxycycline Caps 100mg 14s	1	33.33	0.33 ± 0	0.33	0.31	0.01						
	Total	**3**	**100**		**107.48**	**100**							
Urinary track infection, uncom-plicated	Amoxycillin Caps 250mg 15s							1	4.55	1.82 ± 0	1.82	1.13	0.25
	Amoxycillin Caps 500mg 15s	1	7.14	3.46 ± 0	3.46	1.32	0.18	2	9.09	5.18 ± 2.44	10.37	6.46	0.71
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15's	1	7.14	18.39 ± 0	18.39	7.02	0.98	2	9.09	18.39 ± 0	36.79	22.93	**2.52**
	Ampicillin Inj 500mg	1	7.14	114.23 ± 0	114.23	43.61	**6.11**						
	Ciprofloxacin Tabs 500mg 10s	2	14.29	1.40 ± 1.62	2.80	1.07	0.07	5	22.73	1.17 ± 1.26	5.86	3.65	0.16
	Gentamicin Inj 80mg/2ml 2ml	1	7.14	12.78 ± 0	12.78	4.88	0.68						
	Nalidixic Acid Susp 250mg/ml 100ml	1	7.14	27.33 ± 0	27.33	10.43	1.46						
	Nalidixic Acid Tabs 500mg 100s	3	21.43	25.95 ± 5.29	77.85	29.72	1.39	2	9.09	34.40 ± 16.27	68.81	42.88	**4.72**
	Co-trimoxazole Tabs 480mg 20s	3	21.43	1.32 ± 0.83	3.96	1.51	0.07						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s							2	9.09	4.53 ± 0	9.06	5.65	0.62
	Doxycycline Caps 100mg 14s							2	9.09	1.55 ± 0	3.11	1.94	0.21
	Erythromycin Tabs 250mg 20s							1	4.55	16.80 ± 0	16.80	10.47	**2.30**
	Metronidazole Tabs 200mg 21s	1	7.14	1.12 ± 0	1.12	0.43	0.06	5	22.73	1.57 ± 0.61	7.84	4.89	0.21
	Total	**14**	**100**		**261.92**	**100**		**22**	**100**		**160.45**	**100**	
Benign prostatic hyperplasia	Ciprofloxacin Tabs 500mg 10s	1	50.00	2.04 ± 0	2.04	7.61	0.15						
	Nitrofurantoin Caps 100mg 50s	1	50.00	24.75 ± 0	24.75	92.39	1.85						
	Total	**2**	**100**		**26.79**	**100**							

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Pelvic inflammation disease	Ampicillin Inj 500mg	2	33.33	81.59 ± 92.31	163.18	89.33	**2.68**						
	Gentamicin Inj 80mg/2ml 2ml	2	33.33	9.59 ± 4.52	19.17	10.49	0.31						
	Metronidazole IV Inj 500mg/ml 100ml	2	33.33	0.17 ± 0.18	0.33	0.18	0.01						
	Total	**6**	**100**		**182.68**	**100**							
Bartholin's abscess	Amoxycillin Caps 500mg 15s	2	28.57	2.07 ± 1.96	4.15	1.93	0.07						
	Ampicillin Inj 500mg	1	14.29	195.82 ± 0	195.82	90.84	**6.36**						
	Gentamicin Inj 40mg/ml 1ml	1	14.29	12.60 ± 0	12.60	5.84	0.41						
	Metronidazole IV Inj 500mg/ml 100ml	1	14.29	0.44 ± 0	0.44	0.20	0.01						
	Metronidazole Tabs 200mg 21s	2	28.57	1.28 ± 1.36	2.56	1.19	0.04						
	Total	**7**	**100**		**215.57**	**100**							
Vaginal bleeding	Flucloxacillin Susp 125mg 100ml	1	100.00	9.48 ± 0	9.48	100.00	1.00						
	Total	**1**	**100**		**9.48**	**100**							
Abortion, complicated, therapeutic, legal	Amoxycillin Caps 500mg 15s	2	5.88	3.46 ± 0	6.91	0.75	0.13						
	Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	1	2.94	20.54 ± 0	20.54	2.22	0.75						
	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	2	5.88	18.39 ± 0	36.79	3.97	0.68						
	Ampicillin Inj 250mg	1	2.94	9.26 ± 0	9.26	1.00	0.34						
	Ampicillin Inj 500mg	5	14.71	124.02 ± 84.48	620.08	66.95	4.55						
	Gentamicin Inj 40mg/ml 1ml	2	5.88	7.88 ± 6.68	15.75	1.70	0.29						
	Gentamicin Inj 80mg/2ml 2ml	2	5.88	9.59 ± 4.52	19.17	2.07	0.35						
	Cefazolin Inj 500mg	2	5.88	66.11 ± 0	132.21	14.27	**2.43**						
	Ceftriaxone Inj 1g	1	2.94	9.24 ± 0	9.24	1.00	0.34						
	Doxycycline Caps 100mg 14s	1	2.94	1.55 ± 0	1.55	0.17	0.06	17	34.00	1.55 ± 0	26.42	10.43	0.31
	Erythromycin Tabs 250mg 20s	1	2.94	10.08 ± 0	10.08	1.09	0.37						
	Metronidazole IV Inj 500mg/ml 100ml	5	14.71	0.21 ± 0.14	1.07	0.12	0.01						
	Metronidazole Tabs 200mg 21s	6	17.65	1.87 ± 0.58	11.20	1.21	0.07	17	34.00	1.25 ± 0.37	21.28	8.40	0.25
	Misoprostol Tabs 0.2mg 60s	3	8.82	10.78 ± 6.26	32.35	3.49	0.40	15	30.00	12.95 ± 1.03	194.29	76.71	**2.56**
	Magnesium Sulphate Crystals 500g							1	2.00	11.30 ± 0	11.30	4.46	**2.23**

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Abortion, complicated, therapeutic, legal	**Total**	**34**	**100**		**926.20**	**100**		**50**	**100**		**253.28**	**100**	
Abscess of the breast	Ampicillin Inj 500mg	1	16.67	179.50 ± 0	179.50	75.14	**4.51**						
	Flucloxacillin Caps 250mg 20s	2	33.33	9.75 ± 8.27	19.50	8.16	0.24						
	Gentamicin Inj 80mg/2ml 2ml	1	16.67	38.34 ± 0	38.34	16.05	0.96						
	Metronidazole IV Inj 500mg/ml 100ml	1	16.67	0.44 ± 0	0.44	0.18	0.01						
	Metronidazole Tabs 200mg 21s	1	16.67	1.12 ± 0	1.12	0.47	0.03						
	Total	**6**	**100**		**238.90**	**100**							
Congenital mal-formations of heart, unspecified	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	100.00	4.53 ± 0	4.53	100.00	1.00						
	Total	**1**	**100**		**4.53**	**100**							
Cough	Co-trimoxazole Susp 200/40mg/5ml 50ml							1	2.04	2.23 ± 0	2.23	2.00	0.98
	Mist Expectorant Stim Syr Adult 200ml	15	68.18	1.68 ± 0.66	25.19	67.17	0.99	24	48.98	2.41 ± 0	57.84	51.95	1.06
	Mist Tussi Infants Mist 100ml	7	31.82	1.76 ± 0.89	12.31	32.83	1.03	24	48.98	2.14 ± 0.76	51.27	46.05	0.94
	Total	**22**	**100**		**37.50**	**100**		**49**	**100**		**111.34**	**100**	
Gastro diarrhoea	Ciprofloxacin Tabs 500mg 10s	1	33.33	0.26 ± 0	0.26	70.27	**2.11**						
	Metronidazole IV Inj 500mg/ml 100ml	2	66.67	0.06 ± 0.03	0.11	29.73	0.45						
	Total	**3**	**100**		**0.37**	**100**							
Nausea	Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	1	0.92	18.39 ± 0	18.39	3.91	**4.26**						
	Co-trimoxazole Tabs 480mg 20s	1	0.92	0.72 ± 0	0.72	0.15	0.17						
	Co-Trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	1	0.92	9.06 ± 0	9.06	1.93	**2.10**						
	Cinnarizine Tabs 25mg 100s							1	2.08	2.56 ± 0	2.56	3.73	1.79
	Metoclopramide Inj 5mg/ml 2ml	**62**	56.88	6.32 ± 7.42	392.03	83.30	1.46	8	16.67	2.13 ± 0	17.04	24.84	1.49

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Nausea	Metoclopramide Syr 5mg/5ml 50ml	2	1.83	1.51 ± 1.28	3.01	0.64	0.35	3	6.25	2.41 ± 0	7.23	10.54	1.69
	Metoclopramide Tabs 10mg 15s	15	13.76	0.47 ± 0	7.08	1.50	0.11	19	39.58	0.70 ± 0.97	13.22	19.27	0.49
	Prochlorperazine Inj 12.5mg/ml 1ml	3	2.75	3.84 ± 0	11.53	2.45	0.89						
	Metoclopramide Tabs 10mg 10s	24	22.02	1.20 ± 1.71	28.82	6.12	0.28	17	35.42	1.68 ± 0.61	28.55	41.62	1.18
	Total	**109**	**100**		**470.64**	**100**		**48**	**100**		**68.60**	**99.99**	
Pain control	Metronidazole Tabs 200mg 21s	1	0.09	1.12 ± 0	1.12	0.00	0.04						
	Amethocaine Cream 1% 25g							1	0.07	60.00 ± 0	60.00	0.33	**4.58**
	Prednisone Tabs 5mg 28s	2	0.18	4.21 ± 5.85	8.42	0.03	0.16						
	Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	3	0.27	19.80 ± 0	59.40	0.21	0.77	1	0.07	19.80 ± 0	19.80	0.11	1.51
	Vitamin Multiple Syr 100ml	2	0.18	0.61 ± 0.78	1.22	0.00	0.02						
	Lignocaine Gel 2% 20g	4	0.36	14.90 ± 0	59.62	0.21	0.58	8	0.58	14.90 ± 0	119.23	0.65	1.14
	Diclofenac Inj 25mg/ml 3ml	**76**	6.92	340.32 ± 363.16	25864.18	91.13	**13.18**	**103**	7.40	114.85 ± 11.01	11829.90	64.89	**8.76**
	Diclofenac Tabs 25mg 42s	16	1.46	5.09 ± 2.43	81.38	0.29	0.20	**58**	4.17	7.53 ± 4.17	436.70	2.40	0.57
	Ibuprofen Susp 100mg/5ml 100ml	12	1.09	2.82 ± 2.62	33.84	0.12	0.11	11	0.79	6.39 ± 0	70.24	0.39	0.49
	Ibuprofen Tabs 200mg 15s	**241**	21.93	1.29 ± 0.62	311.68	1.10	0.05	**357**	25.66	1.59 ± 0.75	567.25	3.11	0.12
	Methyl Salicylate In Vaseline Oint 10% 25g	16	1.46	0.64 ± 0	10.30	0.04	0.02	**85**	6.11	0.64 ± 0	54.74	0.30	0.05
	Paracetamol Codeine Phos Tabs 500mg/8mg 20s	6	0.55	76.02 ± 45.67	456.12	1.61	**2.94**	32	2.30	126.78 ± 60.26	4057.06	22.26	**9.67**
	Paracetamol Syr 120mg/5ml 50ml	93	8.46	1.34 ± 0.85	124.71	0.44	0.05	**68**	4.89	2.30 ± 0.88	156.42	0.86	0.18
	Paracetamol Syr 120mg/5ml 100ml	33	3.00	2.38 ± 0.71	78.50	0.28	0.09	17	1.22	2.86 ± 0.65	48.60	0.27	0.22
	Paracetamol Tabs 500mg 10s	**480**	43.68	0.90 ± 0.60	431.02	1.52	0.03	**583**	41.91	0.92 ± 0.24	535.02	2.93	0.07
	Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	23	2.09	7.08 ± 8.37	162.90	0.57	0.27	26	1.87	5.52 ± 1.21	143.42	0.79	0.42
	Tilidine Oral Drops 100mg/1ml 10ml	1	0.09	1.25 ± 0	1.25	0.00	0.05	5	0.36	2.30 ± 2.75	11.51	0.06	0.18
	Ibuprofen Tabs 200mg 30s	3	0.27	1.86 ± 0	5.58	0.02	0.07						
	Diclofenac Tabs 25mg 28s	18	1.64	1.64 ± 1.42	29.58	0.10	0.06	32	2.30	3.50 ± 2.26	111.86	0.61	0.27

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Pain control	Codeine Phosphate Tabs 30mg 100s	20	1.82	13.02 ± 5.24	260.40	0.92	0.50						
	Morphine Sulphate IV Inj 15mg 1ml	6	0.55	0.94 ± 0.87	5.66	0.02	0.04						
	Morphine Sulphate Tabs 30mg 60s	1	0.09	10.01 ± 0	10.01	0.04	0.39						
	Pethidine IM Inj 50mg/ml 1ml 10s	25	2.27	3.53 ± 3.98	88.20	0.31	0.14	3	0.22	0.83 ± 0.29	2.50	0.01	0.06
	Pethidine IM Inj 100mg/2ml 1ml 10s	17	1.55	17.51 ± 15.85	297.67	1.05	0.68	1	0.07	5.56 ± 0	5.56	0.03	0.42
	Total	**1099**	**100**		**28382.76**	**100**		**1391**	**100**		**18229.81**	**100**	
Anaphylactic shock / shock	Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	1	100.00	0.94 ± 0	0.94	100.00	1.00						
	Total	**1**	**100**		**0.94**	**100**							
Feeding supplement	Dextrose Sol for IV Infus 5% 1000ml	1	100.00	7.30 ± 0	7.30	100.00	1.00						
	Total	**1**	**100**		**7.30**	**100**							
Wound caring	Cloxacillin IV Inj 500mg	1	100.00	59.64 ± 0	59.64	100.00	1.00						
	Total	**1**	**100**		**59.64**	**100**							
Amputation of upper limb, level unspecified	Amoxycillin Caps 250mg 15s	1	14.29	1.82 ± 0	1.82	3.41	0.24						
	Ampicillin Inj 500mg	2	28.57	24.48 ± 23.08	48.95	91.62	**3.21**						
	Gentamicin Inj 40mg/ml 1ml	2	28.57	1.31 ± 0	2.63	4.92	0.17						
	Metronidazole IV Inj 500mg/ml 100ml	2	28.57	0.02 ± 0.02	0.03	0.06	0.00						
	Total	**7**	**100**		**53.43**	**100**							
Foreign body in ear (wax)	Benzyl Benzoate Emuls 100ml							1	6.67	2.75 ± 0	2.75	2.11	0.32
	Antazoline Tetrahydrozoline Eye Drops 10ml							1	6.67	4.73 ± 0	4.73	3.63	0.55
	Acetic Acid Ear Drops 1% in normal saline 10ml	1	33.33	0.06 ± 0	0.06	0.18	0.01	8	53.33	2.75 ± 0	22.00	16.91	0.32
	Neomycin Polymixin Hydrocortisone Ear Drops 10ml							1	6.67	32.63 ± 0	32.63	25.08	**3.76**
	Arachis Oil, Paradichlorbenzene chlorbut 10ml	2	66.67	17.00 ± 0	34.00	99.82	1.50	4	26.67	17.00 ± 0	68.00	52.26	1.96

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Foreign body in ear (wax)	**Total**	**3**	**100**		**34.06**	**100**		**15**	**100**		**130.11**	**100**	
Burns, complicated	Amoxycillin Caps 500mg 15s							1	50.00	3.46 ± 0	3.46	57.00	1.14
	Total												
Toxic effect of petroleum products	Amoxycillin Susp 125mg/5ml 100ml							1	50.00	2.61 ± 0	2.61	43.00	0.86
	Total												
Bites and Stings	Ampicillin Inj 500mg	2	50.00	73.43 ± 57.69	146.86	88.35	1.77						
	Gentamicin Inj 80mg/2ml 2ml	1	25.00	19.17 ± 0	19.17	11.53	0.46						
	Metronidazole IV Inj 500mg/ml 100ml	1	25.00	0.19 ± 0	0.19	0.11	0.00						
	Total	**4**	**100**		**166.22**	**100**		**2**	**100**		**6.07**	**100**	
Toxic effect of poisons (unspecified substance)	Amoxycillin Caps 250mg 15s	2	100.00	0.51 ± 0.56	1.03	100.00	1.00						
	Total	**2**	**100**		**1.03**	**100**							
Rape	Ciprofloxacin Inj for IV Infus 2mg/ml 100ml							2	33.33	257.37 ± 0	514.74	98.90	**2.97**
	Doxycycline Caps 100mg 14s							2	33.33	1.55 ± 0	3.11	0.60	0.02
	Erythromycin Tabs 250mg 20s	1	33.33	7.56 ± 0	7.56	88.73	**2.66**						
	Metronidazole IV Inj 500mg/ml 100ml							1	16.67	1.48 ± 0	1.48	0.28	0.02
	Metronidazole Tabs 200mg 21s	2	66.67	0.48 ± 0.38	0.96	11.27	0.17	1	16.67	1.12 ± 0	1.12	0.22	0.01
	Total	**3**	**100**		**8.52**	**100**		**6**	**100**		**520.44**	**100**	
Antihistamine for allergies	Ampicillin Inj 250mg	1	2.56	1.54 ± 0	1.54	1.18	0.46						
	Ampicillin Inj 500mg	1	2.56	8.16 ± 0	8.16	6.27	**2.45**						
	Antazoline Tetrahydrozoline Eye Drops 10ml							1	1.00	4.73 ± 0	4.73	2.44	**2.44**
	Betamethasone Valerate Cream 0.1% 15g							1	1.00	1.90 ± 0	1.90	0.98	0.98
	Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	2	5.13	35.66 ± 25.21	71.31	54.81	**10.69**						
	Prednisone Tabs 5mg 28s							7	7.00	0.30 ± 0.16	2.09	1.07	0.15

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Antihistamine for allergies	Diazepam Inj 5mg/ml 2ml	1	2.56	2.10 ± 0	2.10	1.61	0.63						
	Diazepam Tabs 5mg 10s	2	5.13	0.11 ± 0.07	0.22	0.17	0.03						
	Chlorpheniramine Mal Tabs 4mg 30s	23	58.97	1.66 ± 0.80	38.21	29.37	0.50	63	63.00	2.14 ± 0.20	135.07	69.59	1.10
	Promethazine Inj 25mg/ml 1ml	3	7.69	0.90 ± 0.88	2.70	2.08	0.27						
	Promethazine Inj 25mg/ml 2ml							6	6.00	1.67 ± 0.52	10.00	5.15	0.86
	Promethazine Tabs 25mg 500s	2	5.13	0.46 ± 0.57	0.92	0.71	0.14	9	9.00	2.41 ± 2.26	21.67	11.17	1.24
	Chlorpheniramine Mal Syr 2mg/5ml 50ml	4	10.26	1.24 ± 0.28	4.95	3.80	0.37	13	13.00	1.43 ± 0.08	18.63	9.60	0.74
	Total	**39**	**100**		**130.11**	**100**		**100**	**100**		**194.08**	**100**	
Failed or difficult intubations	Diazepam Inj 5mg/ml 2ml	1	50.00	1.05 ± 0	1.05	70.47	1.41	4	40.00	0.79 ± 0.30	3.15	68.93	1.72
	Diazepam Tabs 5mg 10s	1	50.00	0.44 ± 0	0.44	29.53	0.59	6	60.00	0.24 ± 0.09	1.42	31.05	0.52
	Total	**2**	**100**		**1.49**	**100**		**10**	**100**		**4.57**	**99.98**	
Sedation	Diazepam Inj 5mg/ml 2ml	12	35.29	1.42 ± 0.87	17.09	88.69	**2.51**						
	Diazepam Tabs 5mg 500s	2	5.88	0.10 ± 0.09	0.19	0.99	0.17						
	Diazepam Tabs 5mg 10s	20	58.82	0.10 ± 0.10	1.99	10.33	0.18						
	Total	**34**	**100**		**19.27**	**100**							
Unknown diagnosis	Amoxycillin Caps 500mg 15s	1	2.86	0.69 ± 0	0.69	0.11	0.04						
	Ciprofloxacin Tabs 500mg 10s	1	2.86	2.55 ± 0	2.55	0.42	0.15						
	Nitrofurantoin Caps 100mg 50s	1	2.86	33.00 ± 0	33.00	5.46	**1.91**						
	Ceftriaxone Inj 1g	2	5.71	41.59 ± 19.61	83.19	13.75	**2.41**						
	Metronidazole IV Inj 500mg/ml 100ml	1	2.86	0.22 ± 0	0.22	0.04	0.01						
	Metronidazole Tabs 200mg 21s	1	2.86	1.12 ± 0	1.12	0.19	0.06						
	Mupirocin Topical Oint 2% 15g	2	5.71	16.53 ± 0	33.06	5.47	0.96	1	3.57	16.53 ± 0	16.53	3.18	0.89
	Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	1	2.86	5.31 ± 0	5.31	0.88	0.31	1	3.57	5.31 ± 0	5.31	1.02	0.29
	Mercurochrome Sol 1% 20ml	1	2.86	1.18 ± 0	1.18	0.20	0.07	1	3.57	1.18 ± 0	1.18	0.23	0.06
	Podophyllum Resin 25g	1	2.86	42.66 ± 0	42.66	7.05	**2.47**						
	Podophyllum Resin Oint 10g	1	2.86	21.05 ± 0	21.05	3.48	1.22	8	28.57	23.68 ± 7.44	189.48	36.42	1.27
	Silver Sulphadiazine Cream 500g	1	2.86	120.00 ± 0	120.00	19.84	**6.94**	1	3.57	8.25 ± 0	8.25	1.58	0.44
	Benzoyl Peroxide Cream 5% 40g							1	3.57	18.23 ± 0	18.23	3.50	0.98
	Aqueous Cream 100g	3	8.57	1.02 ± 0	3.05	0.50	0.06	9	32.14	1.24 ± 0.38	11.17	2.15	0.07

Appendix D.27: Average cost per medicine item according to therapeutic codes and ICD-10 codes (continue)

ICD-10 code	Therapeutic code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%	Mean & std dev	n	%		n	%	Mean & std dev	n	%	
Unknown diagnosis	Aqueous Cream 500g	2	5.71	3.12 ± 0	6.23	1.03	0.18						
	Emulsifying Oint 500g	1	2.86	10.79 ± 0	10.79	1.78	0.62						
	Lubricating Jelly Sachet 2.5ml	1	2.86	0.18 ± 0	0.18	0.03	0.01						
	Zinc & Castor Oil Oint 25g	3	8.57	0.83 ± 0	2.50	0.41	0.05	3	10.71	0.83 ± 0	2.50	0.48	0.04
	Zinc Sulphate Grade 500g							1	3.57	249.00 ± 0	249.00	47.86	**13.40**
	Povidone Iodine Oint 25g	2	5.71	1.72 ± 0	3.45	0.57	0.10	1	3.57	1.72 ± 0	1.72	0.33	0.09
	Povidone Iodine Sol 1000ml	2	5.71	16.96 ± 0	33.93	5.61	0.98	1	3.57	16.96 ± 0	16.96	3.26	0.91
	Acyclovir Tabs 200mg 25s	3	8.57	9.09 ± 7.08	27.28	4.51	0.53						
	Sodium Alginate in a Hydro-active base 50g	3	8.57	57.60 ± 62.35	172.80	28.57	**3.33**						
	Ibuprofen Tabs 200mg 15s	1	2.86	0.56 ± 0	0.56	0.09	0.03						
	Total	**35**	**100**		**604.80**	**100**		**28**	**100**		**520.32**	**100**	
Hormone replacement therapy	Oestrogens Conj Tabs 0.3mg 28s	1	50.00	14.66 ± 0	14.66	54.18	1.08						
	Oestrogens Conj Tabs 0.625mg 28s	1	50.00	12.40 ± 0	12.40	45.82	0.92	9	90.00	12.40 ± 0	111.61	67.80	0.75
	Oestrogens Conj Vaginal Cream 42.5g							1	10.00	53.00 ± 0	53.00	32.20	**3.22**
	Total	**2**	**100**		**27.06**	**100**		**10**	**100**		**164.61**	**100**	
Immunisation	Vaccine Tetanus Adosrbed 10 dose 10ml	10	100.00	3.71 ± 6.17	37.14	100.00	1.00	25	100.00	1.27 ± 0.43	31.83	100.00	1.00
	Total	**10**	**100**		**37.14**	**100**		**25**	**100**		**31.83**	**100**	
Family planning	Cefazolin Inj 500mg	1	10.00	594.95 ± 0	594.95	74.07	**7.41**						
	Condoms 10s	1	10.00	0 ± 0	0.00	0.00	0.00						
	Medroxyprogesterone Tabs 5mg 30s	1	10.00	113.92 ± 0	113.92	14.18	1.42	2	66.67	56.96 ± 0	113.92	85.47	1.28
	Norgestrel Oestradiol Tabs 28s	2	20.00	22.27 ± 3.52	44.54	5.55	0.28	1	33.33	19.37 ± 0	19.37	14.53	0.44
	Oxytocin 5Iu/ml 5s	1	10.00	9.97 ± 0	9.97	1.24	0.12						
	Oxytocin Inj 10Iu 1ml 5s	4	40.00	9.96 ± 2.85	39.85	4.96	0.12						
	Total	**10**	**100**		**803.23**	**100**		**3**	**100**		**133.29**	**100**	
Post partum bleeding	Cefazolin Inj 500mg	1	100.00	66.11 ± 0	66.11	100.00	1.00						
	Total	**1**	**100**		**66.11**	**100**							

* Percentage was calculated for therapeutic codes according to the total number of medicine items dispensed in the different ICD-10 codes for inpatients and outpatients respectively

** Percentage was calcualted for therapeutic codes according to the total cost in the different ICD-10 codes for inpatients and outpatients respectively

Appendix D.28: Total cost of top 10 therapeutic codes

Therapeutic code	Inpatients			Therapuetic code	Outpatients		
	Rank	R	%*		Rank	R	%*
Diclofenac Inj 25mg/ml 3ml	1	25979.65	21.35	Efavirenz Caps 600mg 30s	1	25354.40	24.62
Ampicillin Inj 500mg	2	17889.42	14.70	Diclofenac Inj 25mg/ml 3ml	2	11829.90	11.49
Ceftriaxone IM Inj 250mg	3	9366.00	7.70	Lamivudine Tabs 150mg 60s	3	6494.33	6.31
Cefazolin Inj 500mg	4	4296.89	3.53	Efavirenz Caps 50mg 30s	4	5770.54	5.60
Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	5	3369.22	2.77	Paracetamol Codeine Phos Tabs 500mg/8mg 20s	5	4057.06	3.94
Glucagon Inj 1mg 1ml	6	3293.22	2.71	Nifedipine Tabs SR 60mg 28s	6	2598.33	2.52
Balanced Heparin 1250Iu/ml 5ml 5s	7	2764.80	2.27	Carbamazepine CR Tabs 400mg 30s	7	2195.98	2.13
Enalapril Tabs 5mg 28s	8	2330.80	1.92	Stavudine D4t Caps 40mg 60s	8	2130.28	2.07
Efavirenz Caps 600mg 30s	9	2316.62	1.90	Nevirapine Tabs 200mg 60s	9	2015.53	1.96
Gentamicin Inj 80mg/2ml 2ml	10	2150.59	1.77	Doxycycline Caps 100mg 14s	10	1670.34	1.62
Total of top 10 therapeutic codes		**73757.21**	**61**	**Total of top 10 therapeutic codes**		**64116.69**	**62**
Total of all the therapeutic codes		**21711.94**	**100**	**Total of all the therapeutic codes**		**102965.16**	**100**

* Percentage was calculated for therapeutic codes according to total cost for inpatients and outpatients respectively

Appendix D.29: Average cost per medicine item according to ICD-10 codes

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean	R	%**		n	%*	Mean	R	%**	
Diarrhoea, infective / food poisoning	188	2.99	18.81 ± 54.48	3536.74	**2.91**	0.97	24	0.44	3.56 ± 4.90	85.40	0.08	0.19
Tuberculosis	206	3.28	28.38 ± 53.76	5845.88	**4.80**	1.47	37	0.68	35.50 ± 14.90	1313.59	1.28	1.89
Septicaemia	5	0.08	121.63 ± 218.07	608.15	0.50	**6.29**						
STD suspicion	5	0.08	3.90 ± 4.67	19.49	0.02	0.20	25	0.46	18.26 ± 54.08	456.57	0.44	0.97
Vaginal discharge	1	0.02	0.33 ± 0	0.33	0.00	0.02						
Herpes viral inflammation of perianal skin & rectum	2	0.03	8.92 ± 9.44	17.84	0.01	0.46						
Genital warts	3	0.05	10.30 ± 7.57	30.90	0.03	0.53	5	0.09	33.80 ± 11.63	168.98	0.16	1.80
Rabies							6	0.11	324.37 ± 0	1946.21	1.89	**17.26**
Herpes simplex / cold sore							1	0.02	7.18 ± 0	7.18	0.01	0.38
Undefined bacterial infection	687	10.93	34.83 ± 106.96	23926.85	**19.66**	1.80	502	9.16	12.80 ± 70.65	6423.63	**6.24**	0.68
Undefined viral infection	16	0.25	69.50 ± 151.52	1111.95	0.91	**3.59**	12	0.22	8.51 ± 10.05	102.08	0.10	0.45
Karposi's sarcoma	4	0.06	27.78 ± 46	111.09	0.09	1.44						
Unspecified HIV	241	3.83	38.90 ± 57	9373.76	**7.70**	**2.01**	686	12.52	68.50 ± 107.91	46992.64	**45.64**	**3.65**
Fungal skin infection	12	0.19	21.63 ± 27	259.53	0.21	1.12	21	0.38	13.29 ± 16.99	279.09	0.27	0.71
Scabies	5	0.08	1.07 ± 0.46	5.34	0.00	0.06	11	0.20	6.66 ± 10.36	73.26	0.07	0.35
Candidiasis	21	0.33	9.64 ± 14.88	202.41	0.17	0.50	4	0.07	5.89 ± 4.07	23.57	0.02	0.31
Cryptococcus - cerebral meningitis	4	0.06	70.89 ± 55.30	283.85	0.23	**3.67**						
Malaria							1	0.02	1.68 ± 0	1.68	0.00	0.09
Worm infections except tape worm	17	0.27	6.31 ± 0.66	107.20	0.09	0.33	12	0.22	7.50 ± 3.57	90.01	0.09	0.40
Hypercalcaemia	1	0.02	9.24 ± 0	9.24	0.01	0.48						
Malignant neoplasm of testis, unspecified	7	0.11	49.96 ± 96.15	349.69	0.29	**2.58**						
Cancer of penis, unspecified	2	0.03	23.46 ± 12.98	46.92	0.04	1.21						
Multiple myeloma	2	0.03	77.17 ± 63.95	154.34	0.13	**3.99**						
Unspecified folaat deficiency anemia	221	3.51	0.45 ± 0.44	100.52	0.08	0.02	43	0.78	0.95 ± 0.15	40.88	0.04	0.05
Unspecified anemia	183	2.91	2.32 ± 5.63	424.57	0.35	0.12	42	0.77	3.82 ± 8.79	160.78	0.16	0.20
Unspecified coagulation defects	141	2.24	38.17 ± 234.93	5381.84	**4.42**	**1.97**	123	2.24	8.77 ± 21.81	1078.78	1.05	0.47
Hypothyroidism, unspecified	9	0.14	5.76 ± 2.62	51.87	0.04	0.30						
Diabetes mellitus type 1	46	0.73	27.99 ± 32.92	1287.71	1.06	1.45	34	0.62	42.93 ± 47.89	1459.49	1.42	2.28
Diabetes mellitus type 2	95	1.51	4.57 ± 4.20	434.46	0.36	0.24	62	1.13	8.16 ± 3.40	505.85	0.49	0.43

Appendix D.29: Average cost per medicine item according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean	R	%**		n	%*	Mean	R	%**	
Hypoglycaemia/ hyperglycaemia in diabetes mellitus	5	0.08	659.74 ± 882.03	3298.71	2.71	**34.09**						
Pellagra	2	0.03	2.22 ± 2.61	4.44	0.00	0.11						
Vitamin deficiency	774	12.31	0.82 ± 1.35	631.90	0.52	0.04	606	11.06	2.05 ± 4.39	1240.65	1.20	0.11
Mineral deficiency	114	1.81	1.57 ± 2.51	179.87	0.15	0.08	53	0.97	2.68 ± 2.04	142.25	0.14	0.14
Cholesterol	4	0.06	6.70 ± 6.95	26.81	0.02	0.35	5	0.09	7.81 ± 1.63	39.05	0.04	0.42
Sodium & water disturbances	1	0.02	27.33 ± 0	27.33	0.02	1.41						
Disorders of acid-base balance	104	1.65	10.08 ± 11.05	1047.90	0.86	0.52	61	1.11	17.57 ± 11.98	1071.69	1.04	0.94
Other disorders of fluid & electrolyte balance	138	2.19	12.04 ± 19.18	1661.59	1.37	0.62	28	0.51	3.29 ± 5.82	92.25	0.09	0.18
Schizophrenic disorder							4	0.07	12.72 ± 4.50	50.87	0.05	0.68
Bipolar affective disorder	1	0.02	0.12 ± 0	0.12	0.00	0.01						
Bipolar disorder	66	1.05	10.31 ± 29.05	680.24	0.56	0.53	29	0.53	3.03 ± 1.48	87.97	0.09	0.16
Major depressive disorder	93	1.48	11.38 ± 13.48	1058.48	0.87	0.59	103	1.88	16.75 ± 8.70	1724.80	1.68	0.89
Meningitis, bacterial	6	0.10	9.50 ± 7.47	57.00	0.05	0.49						
Inflammation	133	2.12	18.66 ± 43.61	2482.39	2.04	0.96	168	3.07	4.96 ± 9.53	832.45	0.81	0.26
Parkinsonism	7	0.11	22.86 ± 33.44	160.01	0.13	1.18	2	0.04	69.00 ± 0	138.00	0.13	**3.67**
Symptomatic epilepsy with complex partial seizures	10	0.16	35.83 ± 53.87	358.25	0.29	1.85						
Epilepsy	117	1.86	20.52 ± 26.65	2400.47	1.97	1.06	181	3.30	22.71 ± 17.36	4110.29	**3.99**	1.21
Status epileptics, unspecified	1	0.02	12.90 ± 0	12.90	0.01	0.67						
Acute inflammation of orbit (cellulites of the eye)	8	0.13	17.44 ± 31.34	139.51	0.11	0.90						
Conjunctivitis	8	0.13	2.27 ± 1.15	18.17	0.01	0.12	27	0.49	7.88 ± 9.32	212.66	0.21	0.42
Otitis externa							1	0.02	3.46 ± 0	3.46	0.00	0.18
Otitis media	5	0.08	7.85 ± 2.80	39.26	0.03	0.41						
Rheumatic fever without mention of heart involvement	15	0.24	84.05 ± 155.84	1260.78	1.04	**4.34**						
Hypertension	471	7.49	12.78 ± 41.20	6021.38	**4.95**	0.66	440	8.03	19.41 ± 43.55	8538.91	**8.29**	1.03
Angina	11	0.17	3.94 ± 7.75	43.31	0.04	0.20	8	0.15	5.15 ± 3.18	41.22	0.04	0.27
Congestive cardiac failure	13	0.21	57.65 ± 90.36	749.51	0.62	**2.98**						
Cardial failure	14	0.22	2.71 ± 2.23	37.88	0.03	0.14	17	0.31	3.89 ± 1.11	66.13	0.06	0.21
Arteriosclerotic gangerene	2	0.03	89.41 ± 81.26	178.81	0.15	**4.62**						

Appendix D.29: Average cost per medicine item according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean	R	%**		n	%*	Mean	R	%**	
Haemorrhoids	6	0.10	7.74 ± 5.68	46.43	0.04	0.40	11	0.20	12.97 ± 3.96	142.68	0.14	0.69
Sinusitis	3	0.05	2.71 ± 2.89	8.13	0.01	0.14	23	0.42	3.50 ± 3.40	80.39	0.08	0.19
Tonsillitis (bacterial)	10	0.16	18.01 ± 18.49	180.70	0.15	0.93	5	0.09	9.88 ± 5.48	49.38	0.05	0.53
Gastro-enteritis	5	0.08	5.86 ± 5.20	29.32	0.02	0.30						
Acute upper respiratory track infection, unspecified	2	0.03	7.66 ± 4.89	15.31	0.01	0.40	16	0.29	6.62 ± 6.50	105.86	0.10	0.35
Brongopneomonia, unspecified	45	0.72	31.51 ± 125.95	1418.15	1.17	1.63	1	0.02	3.46 ± 0	3.46	0.00	0.18
Pneumonia, unspecified	85	1.35	40.01 ± 70.61	3401.00	2.79	**2.07**						
Allergic rhinitis							1	0.02	2.19 ± 0	2.19	0.00	0.12
Chronic obstructive pulmonary disease with acute lower respiratory infection	35	0.56	16.13 ± 34.79	564.49	0.46	0.83	5	0.09	2.81 ± 1.26	14.05	0.01	0.15
Asthma, acute OR asthma, chronic persistent	148	2.35	8.01 ± 12.40	1186.15	0.97	0.41	152	2.77	12.84 ± 12.13	1951.80	1.90	0.68
Abscess of the lung without pneumonia	22	0.35	41.14 ± 73.00	905.15	0.74	**2.13**						
Haemothorax	2	0.03	10.93 ± 10.56	21.85	0.02	0.56						
Dental abscess	10	0.16	0.92 ± 0.80	8.29	0.01	0.04	32	0.58	1.44 ± 0.99	46.07	0.04	0.08
Mouth abscess	22	0.35	43.16 ± 90.94	949.56	0.78	**2.23**	7	0.13	4.65 ± 5.14	32.56	0.03	0.25
Peptic ulcer	15	0.24	40.06 ± 68.95	600.94	0.49	**2.07**						
Gastritis - acute, haemorrhagic	25	0.40	17.87 ± 49.11	446.82	0.37	0.92						
Appendicitis, unspecified	3	0.05	47.85 ± 71.89	143.55	0.12	**2.47**						
Urinary tract infection	3	0.05	2.45 ± 2.13	7.35	0.01	0.13						
Constipation	35	0.56	20.22 ± 57.11	707.57	0.58	1.04	10	0.18	5.58 ± 2.77	55.78	0.05	0.30
Alcohol liver disease, unspecified	4	0.06	86.42 ± 160.10	345.69	0.28	**4.47**						
Gastrointestinal haemorrhage, unspecified	2	0.03	1.68 ± 1.85	3.36	0.00	0.09						
Abdominal cramps	31	0.49	5.63 ± 12.20	174.44	0.14	0.29	21	0.38	3.42 ± 4.00	71.88	0.07	0.18
Boils / impetigo	3	0.05	5.78 ± 7.49	17.34	0.01	0.30	1	0.02	2.61 ± 0	2.61	0.00	0.14
Unspecified cellulites	16	0.25	29.92 ± 41.61	478.68	0.39	1.55						
Dermatitis herpetiformis	3	0.05	30.63 ± 23.01	91.88	0.08	1.58						
Rash	1	0.02	1.22 ± 0	1.22	0.00	0.06	3	0.05	4.47 ± 6.29	13.40	0.01	0.24
Pruritus							15	0.27	2.23 ± 1.09	33.41	0.03	0.12
Psoriasis							12	0.22	9.07 ± 4.44	108.80	0.11	0.48
Septic arthritis, acute	14	0.22	27.40 ± 47.49	383.66	0.32	1.42						

Appendix D.29: Average cost per medicine item according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean	R	%**		n	%*	Mean	R	%**	
Gout	5	0.08	19.95 ± 27.59	99.74	0.08	1.03	3	0.05	9.90 ± 3.24	29.71	0.03	0.53
Muscle relaxant	16	0.25	2.78 ± 2.86	44.51	0.04	0.14	19	0.35	4.74 ± 0.81	90.05	0.09	0.25
Nephritis	5	0.08	51.79 ± 99.30	258.96	0.21	**2.68**						
Chronic obstructive pyelonephritis	3	0.05	35.83 ± 53.95	107.48	0.09	1.85						
Urinary track infection, uncomplicated	14	0.22	18.71 ± 29.74	261.91	0.22	0.97	22	0.40	7.29 ± 11.03	160.45	0.16	0.39
Benign prostatic hyperplasia	2	0.03	13.39 ± 16.06	26.79	0.02	0.69						
Pelvic inflammation disease	6	0.10	30.45 ± 57.41	182.68	0.15	1.57						
Bartholin's abscess	7	0.11	30.80 ± 72.89	215.57	0.18	1.59						
Vaginal bleeding	1	0.02	9.48 ± 0	9.48	0.01	0.49						
Abortion, complicated, therapeutic, legal	34	0.54	27.24 ± 52.56	926.21	0.76	1.41	50	0.91	5.07 ± 5.43	253.28	0.25	0.27
Abscess of the breast	6	0.10	39.82 ± 69.91	238.90	0.20	**2.06**						
Congenital malformations of heart, unspecified	1	0.02	4.53 ± 0	4.53	0.00	0.23						
Cough	22	0.35	1.70 ± 0.72	37.49	0.03	0.09	49	0.89	2.27 ± 0.54	111.34	0.11	0.12
Gastro diarrhoea	3	0.05	0.12 ± 0.12	0.36	0.00	0.01						
Nausea	109	1.73	4.32 ± 6.37	470.64	0.39	0.22	48	0.88	1.43 ± 0.95	68.60	0.07	0.08
Pain control	1099	17.48	25.83 ± 128.13	28382.76	**23.32**	1.33	1391	25.38	13.11 ± 35.72	18229.81	**17.70**	0.70
Anaphylactic shock / shock	1	0.02	0.94 ± 0	0.94	0.00	0.05						
Feeding supplement	1	0.02	7.30 ± 0	7.30	0.01	0.38						
Wound caring	1	0.02	59.64 ± 0	59.64	0.05	**3.08**						
Amputation of upper limb, level unspecified	7	0.11	7.63 ± 14.89	53.43	0.04	0.39						
Foreign body in ear (wax)	3	0.05	11.35 ± 9.78	34.06	0.03	0.59	15	0.27	8.67 ± 9.19	130.11	0.13	0.46
Burns, complicated							1	0.02	3.46 ± 0	3.46	0.00	0.18
Toxic effect of petroleum products							1	0.02	2.61± 0	2.61	0.00	0.14
Bites and stings	4	0.06	41.55 ± 50.24	166.21	0.14	**2.15**						
Toxic effect of poisons (unspecified substance)	2	0.03	0.51 ± 0.56	1.03	0.00	0.03						
Rape	3	0.05	2.84 ± 4.10	8.52	0.01	0.15	6	0.11	86.74 ± 132.17	520.44	0.51	**4.62**
Antihistamin for allergies	39	0.62	3.34 ± 8.75	130.11	0.11	0.17	100	1.82	1.94 ± 0.92	194.09	0.19	0.10
Failed or difficult intubations	2	0.03	0.75 ± 0.43	1.49	0.00	0.04						
Sedation	34	0.54	0.57 ± 0.82	19.28	0.02	0.03	10	0.18	0.46 ± 0.34	4.57	0.00	0.02

Appendix D.29: Average cost per medicine item according to ICD-10 codes (continue)

ICD-10 code	Inpatients						Outpatients					
	Prevalence		Cost			CPI	Prevalence		Cost			CPI
	n	%*	Mean	R	%**		n	%*	Mean	R	%**	
Unknown diagnose	35	0.56	17.91 ± 32.45	604.80	0.50	0.89	28	0.51	18.58 ± 46.44	520.32	0.51	0.99
Hormone replacement therapy	2	0.03	13.53 ± 1.60	27.06	0.02	0.70	10	0.18	16.46 ± 12.84	164.61	0.16	0.88
Immunisation	10	0.16	3.71 ± 6.17	37.14	0.03	0.19	25	0.46	1.27 ± 0.43	31.83	0.03	0.07
Family planning	10	0.16	80.32 ± 183.77	803.23	0.66	**4.15**	3	0.05	44.43 ± 21.71	133.29	0.13	**2.36**
Post partum bleeding	1	0.02	66.11 ± 0	66.11	0.05	**3.42**						
Total	**6285**	**100**		**121684.88**	**100**		**5480**	**100**		**102965.21**	**100**	

* Percentage was calculated for ICD-10 codes according to the total number of medicine items dispenced to inpatients and outpatients respectively

** Percentage was calculated for ICD-10 codes according to total cost for inpatients and outpatients respectively

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Male	Diarrhoea, infective / food poisoning	96	4.25	27.07 ± 71.30	2599.00	**5.89**	1.39	9	0.43	5.90 ± 6.91	53.08	0.12	0.28
	Tuberculosis	87	3.85	32.47 ± 65.95	2824.92	**6.40**	1.66	9	0.43	31.37 ± 19.34	2852.36	**6.36**	**14.82**
	Septicaemia	3	0.13	202.47 ± 265.71	607.41	1.38	**10.36**						
	STD suspicion	5	0.22	3.90 ± 4.67	19.49	0.04	0.20	16	0.76	24.52 ± 67.03	392.36	0.88	1.15
	Herpes viral inflammation of perianal skin & rectum	2	0.09	8.92 ± 9.44	17.84	0.04	0.46						
	Genital warts	3	0.13	10.30 ± 7.57	30.90	0.07	0.53	1	0.05	42.66 ± 0	42.66	0.10	1.99
	Rabies							6	0.29	324.37 ± 0	1946.21	**4.34**	**15.16**
	Undefined bacterial infection	216	9.57	37.28 ± 112.37	8051.66	**18.24**	1.91	198	9.45	10.17 ± 13.27	2013.90	**4.49**	0.48
	Undefined viral infection	8	0.35	118.36 ± 204.89	946.85	2.15	**6.06**	6	0.29	11.37 ± 13.48	68.20	0.15	0.53
	Unspecified HIV	52	2.30	50.59 ± 69.42	2630.79	**5.96**	**2.59**	221	10.54	90.23 ± 126.76	19940.89	**44.48**	**4.22**
	Fungal skin infection	5	0.22	22.72 ± 21.45	113.62	0.26	1.16	9	0.43	14.37 ± 18.47	128.41	0.29	0.67
	Scabies	4	0.18	1.02 ± 0.51	4.07	0.01	0.05	3	0.14	12.05 ± 18.66	36.14	0.08	0.56
	Candidiase	4	0.18	2.59 ± 1.74	10.38	0.02	0.13	3	0.14	6.53 ± 4.74	19.58	0.04	0.31
	Worm infections except tape worm	9	0.40	6.78 ± 0.53	61.04	0.14	0.35	6	0.29	9.16 ± 4.63	54.98	0.12	0.43
	Hypercalcaemia	1	0.04	9.24 ± 0	9.24	0.02	0.47						
	Malignant neoplasm of testis, unspecified	7	0.31	49.96 ± 96.15	349.69	0.79	**2.56**						
	Cancer of penis, unspecified	2	0.09	23.46 ± 12.98	46.92	0.11	1.20						
	Multiple myeloma	2	0.09	77.17 ± 63.95	154.34	0.35	**3.95**						
	Unspecified folate deficiency anemia	64	2.83	0.43 ± 0.51	27.24	0.06	0.02	16	0.76	0.90 ± 0.20	14.46	0.03	0.04
	Unspecified anemia	35	1.55	1.69 ± 2.78	59.15	0.13	0.09	10	0.48	8.62 ± 17.68	86.22	0.19	0.40
	Unspecified coagulation defects	48	2.13	21.31 ± 31.04	1022.93	2.32	1.09	32	1.53	4.70 ± 7.59	150.31	0.34	0.22
	Diabetes mellitus type 1	6	0.27	38.04 ± 38.74	228.25	0.52	1.95	27	1.29	45.39 ± 51.33	1225.49	2.73	**2.12**
	Diabetes mellitus type 2	26	1.15	4.56 ± 4.20	118.48	0.27	0.23	10	0.48	10.86 ± 1.77	108.59	0.24	0.51

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender (continue)

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Male	Hypoglycaemia / hyperglycaemia in diabetes mellitus	1	0.04	1.80 ± 0	1.80	0.00	0.09						
	Pellagra	2	0.09	2.22 ± 2.62	4.44	0.01	0.11						
	Vitamin deficiency	255	11.29	0.85 ± 1.39	216.48	0.49	0.04	242	11.55	1.61 ± 2.42	390.06	0.87	0.08
	Mineral deficiency	30	1.33	1.98 ± 3.14	59.34	0.13	0.10	16	0.76	2.24 ± 1.16	35.79	0.08	0.10
	Cholesterol							5	0.24	7.81 ± 1.63	39.05	0.09	0.37
	Sodium & water disturbances	1	0.04	27.33 ± 0	27.33	0.06	1.40						
	Disorders of acid-base balance	36	1.59	9.46 ± 10.50	340.48	0.77	0.48	27	1.29	15.63 ± 11.79	421.90	0.94	0.73
	Other disorders of fluid & electrolyte balance	64	2.83	9.43 ± 12.98	603.70	1.37	0.48	10	0.48	2.52 ± 3.38	25.27	0.06	0.12
	Schizophrenic disorder							3	0.14	14.02 ± 4.50	42.05	0.09	0.66
	Bipolar disorder	21	0.93	20.44 ± 44.64	429.33	0.97	1.05	10	0.48	4.41 ± 1.39	44.12	0.10	0.21
	Major depressive disorder	18	0.80	11.14 ± 19.62	200.55	0.45	0.57	25	1.19	18.52 ± 8.22	462.95	1.03	0.87
	Meningitis, bacterial	2	0.09	18.49 ± 0	36.97	0.08	0.95						
	Inflammation	45	1.99	12.21 ± 21.53	549.51	1.25	0.62	58	2.77	6.38 ± 13.21	369.78	0.82	0.30
	Symptomatic epilepsy with complex partial seizures	3	0.13	6.31 ± 2.23	18.94	0.04	0.32						
	Epilepsy	59	2.61	16.80 ± 24.94	990.96	2.25	0.86	91	4.34	25.51 ± 18.41	2321.80	**5.18**	1.19
	Acute inflammation of orbit (cellulites of the eye)	8	0.35	17.44 ± 31.34	139.51	0.32	0.89						
	Conjunctivitis	7	0.31	1.92 ± 0.63	13.44	0.03	0.10	15	0.72	7.25 ± 9.12	108.80	0.24	0.34
	Rheumatic fever without mention of heart involvement	15	0.66	84.05 ± 155.84	1260.78	2.86	**4.30**						
	Hypertension	107	4.74	9.17 ± 23.02	981.31	2.22	0.47	132	6.30	14.61 ± 18.97	1928.15	**4.30**	0.68
	Angina	3	0.13	9.57 ± 15.09	28.70	0.07	0.49	2	0.10	4.29 ± 0	8.59	0.02	0.20
	Congestive cardiac failure	2	0.09	17.22 ± 21.81	34.43	0.08	0.88						
	Cardial failure	4	0.18	1.93 ± 1.67	7.70	0.02	0.10	5	0.24	3.79 ± 0.38	18.95	0.04	0.18
	Haemorrhoids	3	0.13	9.85 ± 7.31	29.55	0.07	0.50	7	0.33	12.34 ± 4.99	86.40	0.19	0.58
	Sinusitis	3	0.13	2.71 ± 2.89	8.13	0.02	0.14	8	0.38	3.24 ± 1.68	25.89	0.06	0.15

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender (continue)

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Male	Tonsillitis (bacterial)	5	0.22	23.10 ± 17.24	115.49	0.26	1.18						
	Gastro-enteritis	5	0.22	5.86 ± 5.20	29.32	0.07	0.30						
	Acute upper respiratory track infection, unspecified							9	0.43	5.30 ± 5.93	47.69	0.11	0.25
	Brongophenomonia, unspesified	14	0.62	7.75 ± 6.45	108.50	0.25	0.40						
	Pneumonia, unspecified	23	1.02	62.07 ± 98.51	1427.66	**3.24**	**3.18**						
	Allergic rhinitis							1	0.05	2.19 ± 0	2.19	0.00	0.10
	Chronic obstructive pulmonary disease with acute lower respiratory infection	23	1.02	11.64 ± 22.63	267.81	0.61	0.60	4	0.19	2.65 ± 1.40	10.60	0.02	0.12
	Asthma, acute OR asthma, chronic persistent	66	2.92	10.38 ± 14.35	685.07	1.55	0.53	52	2.48	9.29 ± 9.98	482.95	1.08	0.43
	Abscess of the lung without pneumonisa	15	0.66	50.98 ± 86.20	764.75	1.73	**2.61**						
	Haemothorax	2	0.09	10.93 ± 10.56	21.85	0.05	0.56						
	Dental abscess	6	0.27	0.74 ± 0.50	4.44	0.01	0.04	11	0.52	1.30 ± 0.26	14.34	0.03	0.06
	Mouth abscess	18	0.80	49.51 ± 99.62	891.19	2.02	**2.53**	1	0.05	15.60 ± 0	15.60	0.03	0.73
	Peptic ulcer	10	0.44	29.05 ± 45.29	290.53	0.66	1.49						
	Gastritis - acute, haemorrhagic	4	0.18	14.22 ± 13.49	56.86	0.13	0.73						
	Urinary tract infection	1	0.04	4.53 ± 0	4.53	0.01	0.23						
	Constipation	8	0.35	5.00 ± 7.46	40.03	0.09	0.26	5	0.24	5.13 ± 2.69	25.67	0.06	0.24
	Abdominal cramps	4	0.18	5.97 ± 10.22	23.87	0.05	0.31	6	0.29	2.34 ± 1.41	14.05	0.03	0.11
	Boils / impetigo							1	0.05	2.61 ± 0	2.61	0.01	0.12
	Unspecified cellulites	12	0.53	27.37 ± 35.58	328.40	0.74	1.40						
	Dermatitis herpetiformis	3	0.13	30.63 ± 23.01	91.88	0.21	1.57						
	Rash							3	0.14	4.47 ± 6.29	13.40	0.03	0.21
	Pruritus							7	0.33	2.33 ± 1.02	16.28	0.04	0.11
	Septic Artritis, acute	10	0.44	36.13 ± 54.30	361.27	0.82	1.85						
	Gout	5	0.22	19.95 ± 27.59	99.74	0.23	1.02	2	0.10	11.69 ± 1.37	23.38	0.05	0.55
	Muscle relaxant	3	0.13	4.98 ± 4.84	14.95	0.03	0.25	12	0.57	4.63 ± 1.02	55.58	0.12	0.22

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender (continue)

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Male	Chronic obstructive pyelonephritis	3	0.13	35.83 ± 53.95	107.48	0.24	1.83						
	Urinary track infection, uncomplicated	9	0.40	12.62 ± 13.28	113.60	0.26	0.65	7	0.33	11.09 ± 17.32	77.64	0.17	0.52
	Benign prostatic hyperplasia	2	0.09	13.39 ± 16.06	26.79	0.06	0.69						
	Cough	7	0.31	1.86 ± 0.92	13.01	0.03	0.10	18	0.86	2.09 ± 0.35	37.59	0.08	0.10
	Gastro diarrhoea	3	0.13	0.12 ± 0.12	0.37	0.00	0.01						
	Nausea	31	1.37	3.45 ± 5.02	106.84	0.24	0.18	14	0.67	1.65 ± 1.16	23.16	0.05	0.08
	Pain control	527	23.34	21.95 ± 107.53	11566.18	**26.21**	1.12	622	29.68	13.04 ± 33.95	8109.66	**18.09**	0.61
	Wound caring	1	0.04	59.64 ± 0	59.64	0.14	**3.05**						
	Foreign body in ear (wax)	2	0.09	8.53 ± 11.98	17.06	0.04	0.44	5	0.24	11.70 ± 7.30	58.48	0.13	0.55
	Burns, complicated							1	0.05	3.46 ± 0	3.46	0.01	0.16
	Bites and stings	4	0.18	41.55 ± 50.24	166.22	0.38	**2.13**						
	Antihistamine for allergies	10	0.44	1.77 ± 0.48	17.66	0.04	0.09	32	1.53	2.13 ± 0.84	68.14	0.15	0.10
	Failed or dificult intubations	1	0.04	0.44 ± 0	0.44	0.00	0.02	5	0.24	0.50 ± 0.35	2.51	0.01	0.02
	Sedation	21	0.93	0.55 ± 0.68	11.49	0.03	0.03						
	Unknown diagnose	15	0.66	21.18 ± 29.46	317.75	0.72	1.08	21	1.00	11.60 ± 11.73	243.57	0.54	0.54
	Immunisation	8	0.35	4.24 ± 6.88	33.95	0.08	0.22	19	0.91	1.23 ± 0.40	23.34	0.05	0.06
	Total	**2258**	**100**		**44131.61**	**100**		**2096**	**100**		**44835.28**	**100**	
Female													
	Diarrhoea, infective / food poisoning	92	2.28	10.19 ± 25.35	937.75	1.21	0.53	15	0.44	2.16 ± 2.55	32.33	0.05	0.12
	Tuberculosis	119	2.95	25.39 ± 42.77	3020.96	**3.90**	1.32	28	0.83	36.83 ± 13.33	1031.24	1.70	**2.05**
	Septicaemia	2	0.05	0.37 ± 0.16	0.74	0.00	0.02						
	STD suspicion							9	0.27	7.13 ± 11.41	64.21	0.11	0.40
	Vaginal discharge	1	0.02	0.33 ± 0	0.33	0.00	0.02						
	Genital warts							4	0.12	31.58 ± 12.15	126.32	0.21	1.76
	Herpes simplex / cold sore							1	0.03	7.18 ± 0	7.18	0.01	0.40
	Undefined bacterial infection	471	11.69	33.71 ± 104.48	15875.19	**20.48**	1.75	304	8.98	14.51 ± 90.17	4409.73	**7.26**	0.81
	Undefined viral infection	8	0.20	20.64 ± 41.97	165.10	0.21	1.07	6	0.18	5.65 ± 4.57	33.89	0.06	0.31
	Karposi's sarcoma	4	0.10	27.77 ± 43.46	111.09	0.14	1.44						
	Unspecified HIV	189	4.69	35.68 ± 71.99	6742.97	**8.70**	1.85	465	13.74	58.18 ± 96.12	27051.75	**44.57**	**3.24**

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender (continue)

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Female	Fungal skin infection	7	0.17	20.84 ± 22.82	145.91	0.19	1.08	12	0.35	12.56 ± 16.59	150.68	0.25	0.70
	Scabies	1	0.02	1.27 ± 0	1.27	0.00	0.07	8	0.24	4.64 ± 6.05	37.11	0.06	0.26
	Candidiasis	17	0.42	11.30 ± 16.15	192.04	0.25	0.59	1	0.03	3.99 ± 0	3.99	0.01	0.22
	Cryptococcus - cerebral meningitis	4	0.10	70.89 ± 55.30	283.55	0.37	**3.68**						
	Malaria							1	0.03	1.68 ± 0	1.68	0.00	0.09
	Worm infections except tape worm	8	0.20	5.77 ± 0.19	46.16	0.06	0.30	6	0.18	5.84 ± 0	35.03	0.06	0.33
	Unspecified folate deficiency anemia	157	3.90	0.47 ± 0.41	73.29	0.09	0.02	27	0.80	0.98 ± 0.10	26.42	0.04	0.05
	Unspecified anemia	148	3.67	2.47 ± 6.11	365.42	0.47	0.13	32	0.95	2.33 ± 1.27	74.55	0.12	0.13
	Unspecified coagulation defects	93	2.31	46.87 ± 288.56	4358.90	**5.62**	**2.44**	91	2.69	10.20 ± 24.84	928.47	1.53	0.57
	Hypothyroidisme, unspecified	9	0.22	5.76 ± 2.62	51.87	0.07	0.30						
	Diabetes mellitus type 1	40	0.99	26.49 ± 32.25	1059.46	1.37	1.38	7	0.21	33.43 ± 32.60	233.99	0.39	1.86
	Diabetes mellitius type 2	69	1.71	4.58 ± 4.24	315.98	0.41	0.24	52	1.54	7.64 ± 3.40	397.26	0.65	0.43
	Hypoglycaemia / hyperglycaemia in Diabetes Mellitus	4	0.10	824.23 ± 925.71	3296.91	**4.25**	**42.83**						
	Vitamin deficiency	519	12.88	0.80 ± 1.33	415.42	0.54	0.04	364	10.76	2.34 ± 5.29	850.60	1.40	0.13
	Mineral deficiency	84	2.09	1.43 ± 2.25	120.53	0.16	0.07	37	1.09	2.88 ± 2.30	106.46	0.18	0.16
	Cholesterol	4	0.10	6.70 ± 6.95	26.81	0.03	0.35						
	Sodium & water disturbances	68	1.69	10.40 ± 11.40	707.42	0.91	0.54						
	Disorders of acid-base balance	74	1.84	14.30 ± 23.11	1057.89	1.36	0.74	34	1.00	19.11 ± 12.08	649.79	1.07	1.07
	Other disorders of fluid & electrolyte balance							18	0.53	3.72 ± 6.86	66.97	0.11	0.21
	Schizophrenic disorder							1	0.03	8.82 ± 0	8.82	0.01	0.49
	Bipolar affective disorder	1	0.02	0.12 ± 0	0.12	0.00	0.01						
	Bipolar disorder	45	1.12	5.58 ± 16.39	250.90	0.32	0.29	19	0.56	2.31 ± 0.82	43.85	0.07	0.13
	Major depressive disorder	75	1.86	11.44 ± 11.73	857.93	1.11	0.59	78	2.30	16.18 ± 8.82	1261.86	2.08	0.90
	Meningitis, bacterial	4	0.10	5.01 ± 3.48	20.03	0.03	0.26						
	Inflammation	88	2.18	21.96 ± 51.18	1932.87	2.49	1.14	110	3.25	4.21 ± 6.80	462.67	0.76	0.23
	Parkinsonism	7	0.17	22.86 ± 33.44	160.01	0.21	1.19	2	0.06	69.00 ± 0	138.00	0.23	**3.85**

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender (continue)

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Female	Symptomatic epilepsy with complex partial seizures	7	0.17	48.47 ± 61.06	339.32	0.44	**2.52**						
	Epilepsy	58	1.44	24.30 ± 27.98	1409.51	1.82	1.26	90	2.66	19.87 ± 15.84	1788.49	2.95	1.11
	Status epileptics, unspecified	1	0.02	12.90 ± 0	12.90	0.02	0.67						
	Conjunctivitis	1	0.02	4.73 ± 0	4.73	0.01	0.25	12	0.35	8.66 ± 9.92	103.86	0.17	0.48
	Otitis externa							1	0.03	3.46 ± 0	3.46	0.01	0.19
	Otitis media	5	0.12	7.85 ± 2.80	39.26	0.05	0.41						
	Hypertension	364	9.04	13.85 ± 45.14	5040.07	**6.50**	0.72	308	9.10	21.46 ± 50.44	6610.76	**10.89**	1.20
	Angina	8	0.20	1.83 ± 1.47	14.61	0.02	0.09	6	0.18	5.44 ± 3.71	32.63	0.05	0.30
	Congestive cardiac failure	11	0.27	65.01 ± 96.75	715.08	0.92	**3.38**						
	Cardial failure	10	0.25	3.02 ± 2.42	30.17	0.04	0.16	12	0.35	3.93 ± 1.31	47.18	0.08	0.22
	Arteriosclerotic gangerene	2	0.05	89.41 ± 81.26	178.81	0.23	**4.65**						
	Haemorrhoids	3	0.07	5.63 ± 3.72	16.88	0.02	0.29	4	0.12	14.07 ± 0	56.28	0.09	0.78
	Sinusitis							15	0.44	3.63 ± 4.09	54.50	0.09	0.20
	Tonsillitis (bacterial)	5	0.12	13.04 ± 20.23	65.21	0.08	0.68	5	0.15	9.88 ± 5.48	49.38	0.08	0.55
	Acute upper respiratory track infection, unspecified	2	0.05	7.66 ± 4.89	15.31	0.02	0.40	7	0.21	8.31 ± 7.26	58.17	0.10	0.46
	Brongopneomonia, unspecified	31	0.77	42.25 ± 151.21	1309.65	1.69	**2.20**	1	0.03	3.46 ± 0	3.46	0.01	0.19
	Pneumonia, unspecified	62	1.54	31.83 ± 55.81	1973.34	2.55	1.65						
	Chronic obstructive pulmonary disease with acute lower respiratory infection	12	0.30	24.72 ± 50.94	296.68	0.38	1.28	1	0.03	3.46 ± 0	3.46	0.01	0.19
	Asthma, acute OR asthma, chronic persistent	82	2.04	6.11 ± 10.27	501.08	0.65	0.32	100	2.96	14.69 ± 12.77	1468.86	2.42	0.82
	Abscess of the lung without pneumonia	7	0.17	20.06 ± 23.55	140.40	0.18	1.04						
	Dental abscess	3	0.07	1.28 ± 1.28	3.85	0.00	0.07	21	0.62	1.51 ± 1.21	31.73	0.05	0.08
	Mouth abscess	4	0.10	14.59 ± 17.92	58.37	0.08	0.76	6	0.18	2.83 ± 1.94	16.96	0.03	0.16
	Peptic ulcer	5	0.12	62.08 ± 105.42	310.41	0.40	**3.23**						
	Gastritis - acute, haemorrhagic	21	0.52	18.57 ± 583.52	389.96	0.50	0.96						

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender (continue)

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Female	Appendicitis, unspecified	3	0.07	47.85 ± 71.89	143.55	0.19	**2.49**						
	Urinary tract infection	2	0.05	1.41 ± 1.59	2.81	0.00	0.07						
	Constipation	27	0.67	24.72 ± 64.48	667.54	0.86	1.28	5	0.15	6.02 ± 3.10	30.10	0.05	0.34
	Alcohol liver disease, unspecified	4	0.10	86.42 ± 160.10	345.69	0.45	**4.49**						
	Gastrointestinal haemorrhage, unspecified	2	0.05	1.68 ± 1.85	3.36	0.00	0.09						
	Abdominal cramps	27	0.67	5.58 ± 12.63	150.57	0.19	0.29	15	0.44	3.86 ± 4.63	57.83	0.10	0.21
	Boils / impetigo	3	0.07	5.78 ± 7.49	17.34	0.02	0.30						
	Unspecified cellulites	4	0.10	37.57 ± 62.54	150.28	0.19	1.95						
	Rash	1	0.02	1.22 ± 0	1.22	0.00	0.06						
	Pruritus							8	0.24	2.14 ± 1.21	17.13	0.03	0.12
	Psoriasis							12	0.35	9.07 ± 4.44	108.80	0.18	0.51
	Septic Arthritis, acute	4	0.10	5.60 ± 6.29	22.39	0.03	0.29						
	Gout							1	0.03	6.33 ± 0	6.33	0.01	0.35
	Muscle relaxant	13	0.32	2.27 ± 2.20	29.56	0.04	0.12	7	0.21	4.93 ± 0	34.48	0.06	0.27
	Nephritis	5	0.12	51.79 ± 99.30	258.96	0.33	**2.69**						
	Urinary track infection, uncomplicated	5	0.12	29.66 ± 47.84	148.32	0.19	1.54	15	0.44	5.52 ± 6.60	82.81	0.14	0.31
	Pelvic inflammation disease	6	0.15	30.45 ± 57.41	182.68	0.24	1.58						
	Bartholin's abscess	7	0.17	30.80 ± 72.89	215.57	0.28	1.60						
	Vaginal bleeding	1	0.02	9.48 ± 0	9.48	0.01	0.49						
	Abortion, complicated, therapeutic, legal	34	0.84	26.06 ± 52.92	926.22	1.19	1.42	50	1.48	5.07 ± 5.43	253.28	0.42	0.28
	Abscess of the breast	6	0.15	39.82 ± 69.91	238.90	0.31	**2.07**						
	Congenital malformations of heart, unspecified	1	0.02	4.53 ± 0	4.53	0.01	0.24						
	Cough	15	0.37	1.63 ± 0.63	24.49	0.03	0.08	31	0.92	2.38 ± 0.60	73.75	0.12	0.13
	Nausea	78	1.94	4.66 ± 6.84	363.80	0.47	0.24	34	1.00	1.34 ± 0.85	45.44	0.07	0.07
	Pain control	572	14.20	29.40 ± 144.54	16816.59	**21.69**	1.53	769	22.72	13.16 ± 37.11	10120.15	**16.67**	0.73
	Anaphylactic shock / shock	1	0.02	0.94 ± 0	0.94	0.00	0.05						

Appendix D.30: Average cost per medicine item according to ICD-10 codes and gender (continue)

Gender	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
Female	Feeding supplement	1	0.02	7.30 ± 0	7.30	0.01	0.38						
	Amputation of upper limb, level unspecified	7	0.17	7.63 ± 14.89	53.43	0.07	0.40						
	Foreign body in ear (wax)	1	0.02	17.00 ± 0	17.00	0.02	0.88	10	0.30	7.16 ± 10.01	71.63	0.12	0.40
	Toxic effect of petroleum products							1	0.03	2.61 ± 0	2.61	0.00	0.15
	Toxic effect of poisons (unspecified substance)	2	0.05	0.51 ± 0.56	1.03	0.00	0.03						
	Rape	3	0.07	2.84 ± 4.10	8.52	0.01	0.15	6	0.18	86.74 ± 132.17	520.44	0.86	**4.84**
	Antihistamine for allergies	29	0.72	3.88 ± 10.13	112.45	0.15	0.20	68	2.01	1.85 ± 0.94	125.94	0.21	0.10
	Failed or dificult intubations	1	0.02	1.05 ± 0	1.05	0.00	0.05						
	Sedation	13	0.32	0.60 ± 1.04	7.78	0.01	0.03	5	0.15	0.41 ± 0.36	2.06	0.00	0.02
	Unknown diagnose	20	0.50	13.81 ± 36.77	277.05	0.36	0.72	7	0.21	39.54 ± 92.53	276.75	0.46	**2.20**
	Hormone replacement therapy	2	0.05	13.53 ± 1.60	27.06	0.03	0.70	10	0.30	16.46 ± 12.84	164.61	0.27	0.92
	Immunisation	2	0.05	1.59 ± 0.75	3.18	0.00	0.08	6	0.18	1.41 ± 0.55	8.49	0.01	0.08
	Family planning	10	0.25	80.32 ± 183.77	803.23	1.04	**4.17**	3	0.09	44.43 ± 21.71	133.29	0.22	**2.48**
	Post partum bleeding	1	0.02	66.11 ± 0	66.11	0.09	**3.44**						
	Total	**4029**	**100**		**77570.40**	**100**		**3384**	**100**		**60699.95**	**100.00**	

* Percentage was calculated for ICD-10 codes according to the total number of medicine items dispenced to male and female patients respectively

** Percentage was calculated for ICD-10 codes according to the total cost for male and female patients respectively

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age groups

The shaded areas indicate where medicine items was only used in either inpatiens or outpatient department

The bold printed figures is those discussed in Chapter 5

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
<0≤6	Diarrhoea, infective / food poisoning	120	10.99	13.36 ± 47.04	1603.15	**12.10**	1.10						
	Tuberculosis	53	4.85	18.59 ± 68.85	985.14	**7.44**	1.53	2	0.70	6.67 ± 0	13.34	0.50	0.72
	Septicaemia	3	0.27	202.47 ± 265.71	607.41	**4.59**	**16.69**						
	Undefined bacterial infection	148	13.55	24.77 ± 98.76	3666.67	**27.68**	**2.04**	55	19.30	9.10 ± 15.87	500.54	**18.84**	0.98
	Undefined viral infection							1	0.35	1.44 ± 0	1.44	0.05	0.15
	Unspecified HIV	27	2.47	49.53 ± 80.94	1337.38	**10.10**	**4.08**	16	5.61	79.45 ± 82.63	1271.27	**47.84**	**8.52**
	Fungal skin infection	2	0.18	45.28 ± 0.06	90.56	0.68	**3.73**	2	0.70	2.55 ± 0	5.10	0.19	0.27
	Scabies	2	0.18	1.27 ± 0	2.54	0.02	0.10	1	0.35	1.27 ± 0	1.27	0.05	0.14
	Candidiasis	6	0.55	2.89 ± 3.30	17.36	0.13	0.24	1	0.35	11.99 ± 0	11.99	0.45	1.29
	Worm infections except tape worm	10	0.92	6.51 ± 0.72	65.12	0.49	0.54	1	0.35	7.05 ± 0	7.05	0.27	0.76
	Unspecified folate deficiency anemia	80	7.33	0.29 ± 0.42	23.30	0.18	0.02	8	2.81	0.75 ± 0.27	5.98	0.23	0.08
	Unspecified anemia	22	2.01	6.95 ± 8.09	152.98	1.15	0.57	1	0.35	57.48 ± 0	57.48	2.16	**6.16**
	Vitamin deficiency	182	16.67	0.85 ± 1.56	154.42	1.17	0.07	50	17.54	1.31 ± 0.55	65.49	2.46	0.14
	Mineral deficiency	33	3.02	1.01 ± 0.85	33.19	0.25	0.08	1	0.35	2.35 ± 0	2.35	0.09	0.25
	Other disorders of fluid & electrolyte balance	40	3.66	9.30 ± 29.35	371.94	2.81	0.77	9	3.16	1.09 ± 0.80	9.81	0.37	0.12
	Major depressive disorder	1	0.09	23.26 ± 0	23.26	0.18	1.92						
	Meningitis, bacterial	4	0.37	5.01 ± 3.48	20.03	0.15	0.41						
	Inflammation	16	1.47	17.10 ± 21.48	273.63	2.07	1.41	4	1.40	11.25 ± 9.93	45.01	1.69	1.21
	Symptomatic epilepsy with complex partial seizures	10	0.92	35.83 ± 53.87	358.25	2.70	**2.95**						
	Epilepsy	13	1.19	15.83 ± 27.05	205.82	1.55	1.31	3	1.05	57.91 ± 33.56	173.73	**6.54**	**6.21**
	Status epileptics, unspecified	1	0.09	12.90 ± 0	12.90	0.10	1.06						
	Conjunctivitis	1	0.09	3.36 ± 0	3.36	0.03	0.28	2	0.70	1.68 ± 0	3.36	0.13	0.18
	Hypertension	2	0.18	3.42 ± 2.09	6.83	0.05	0.28	1	0.35	9.84 ± 0	9.84	0.37	1.06
	Sinusitis	1	0.09	0.02 ± 0	0.02	0.00	0.00	3	1.05	4.29 ± 2.67	12.87	0.48	0.46
	Gastro-enteritis	5	0.46	5.86 ± 5.20	29.32	0.22	0.48						

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
<0≤6	Acute upper respiratory track infection, unspecified	2	0.18	7.66 ± 4.89	15.31	0.12	0.63	7	2.46	3.57 ± 3.85	25.00	0.94	0.38
	Brongopneomonia, unspecified	36	3.30	32.64 ± 139.20	1175.04	**8.87**	**2.69**						
	Pneumonia, unspecified	16	1.47	44.11 ± 92.73	705.82	**5.33**	**3.64**						
	Chronic obstructive pulmonary disease with acute lower respiratory infection	33	3.02	16.30 ± 35.83	537.93	**4.06**	1.34	3	1.05	2.93 ± 1.67	8.78	0.33	0.31
	Asthma, acute OR asthma, chronic persistent	50	4.58	7.91 ± 13.52	395.26	2.98	0.65	12	4.21	8.44 ± 11.33	101.25	**3.81**	0.90
	Dental abscess							1	0.35	1.18 ± 0	1.18	0.04	0.13
	Constipation	1	0.09	4.43 ± 0	4.43	0.03	0.37						
	Abdominal cramps	3	0.27	7.15 ± 11.12	21.44	0.16	0.59	2	0.70	11.13 ± 12.53	22.26	0.84	1.19
	Boils / impetigo							1	0.35	2.61 ± 0	2.61	0.10	0.28
	Pruritus							1	0.35	3.45 ± 0	3.45	0.13	0.37
	Septic artritis, acute	4	0.37	5.60 ± 6.29	22.39	0.17	0.46						
	Urinary track infection, uncomplicated	1	0.09	27.33 ± 0	27.33	0.21	**2.25**						
	Vaginal bleeding	1	0.09	9.48 ± 0	9.48	0.07	0.78						
	Cough	6	0.55	1.40 ± 0.55	8.38	0.06	0.12	14	4.91	1.75 ± 0.14	24.45	0.92	0.19
	Nausea	4	0.37	1.05 ± 0.99	4.19	0.03	0.09	3	1.05	2.41 ± 0	7.23	0.27	0.26
	Pain control	128	11.72	1.40 ± 1.01	179.62	1.36	0.12	67	23.51	2.52 ± 1.35	168.77	**6.35**	0.27
	Anaphylactic shock / shock	1	0.09	0.94 ± 0	0.94	0.01	0.08						
	Amputasion of upper limb, level unspesified	7	0.64	7.63 ± 14.89	53.43	0.40	0.63						
	Foreign body in ear (wax)	2	0.18	8.53 ± 11.98	17.06	0.13	0.70	2	0.70	2.75 ± 0	5.50	0.21	0.29
	Toxic effect of petroleum products							1	0.35	2.61 ± 0	2.61	0.10	0.28
	Toxic effect of poisons (unspecified substance)	2	0.18	0.51 ± 0.56	1.03	0.01	0.04						
	Antihistamine for allergies	6	0.55	2.24 ± 2.94	13.43	0.10	0.18	7	2.46	1.41 ± 0.11	9.99	0.38	0.15
	Sedation	4	0.37	0.75 ± 1.18	2.98	0.02	0.06	1	0.35	0.53 ± 0	0.53	0.02	0.06
	Unknown diagnosis	2	0.18	2.07 ± 1.48	4.13	0.03	0.17	3	1.05	7.63 ± 11.62	22.90	0.86	0.82

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
<0≤6	Hormone replacement therapy							1	0.35	53.00 ± 0	53.00	1.99	**5.68**
	Immunisation	1	0.09	2.12 ± 0	2.12	0.02	0.17						
	Total	**1092**	**100**		**13246.32**	**100**		**285**	**100.70**		**2657.43**	**100**	
>6≤12	Diarrhoea, infective / food poisoning	4	1.35	9.91 ± 10.25	39.63	0.71	0.53	3	1.33	4.07 ± 5.57	12.20	0.15	0.11
	Tuberculosis	2	0.68	12.39 ± 9.43	24.78	0.44	0.66						
	Undefined bacterial infection	23	7.77	23.65 ± 68.37	544.00	**9.76**	1.26	22	9.73	4.44 ± 4.22	97.63	1.18	0.12
	Undefined viral infection	1	0.34	1.01 ± 0	1.01	0.02	0.05						
	Unspecified HIV	36	12.16	53.48 ± 122.23	1925.27	**34.54**	**2.84**	57	25.22	127.64 ± 212.65	7275.50	**87.63**	**3.47**
	Fungal skin infection							2	0.88	29.61 ± 14.59	59.23	0.71	0.81
	Scabies	3	1.01	0.93 ± 1.59	2.80	0.05	0.05						
	Candidiasis	1	0.34	3.99 ± 0	3.99	0.07	0.21	1	0.44	3.99 ± 0	3.99	0.05	0.11
	Cryptococcus - cerebral meningitis	4	1.35	70.89 ± 55.30	283.55	**5.09**	**3.76**						
	Worm infections except tape worm	2	0.68	6.45 ± 0.86	12.89	0.23	0.34	4	1.77	6.14 ± 0.61	24.57	0.30	0.17
	Unspecified folaat deficiency anemia	17	5.74	0.33 ± 0.34	5.64	0.10	0.02						
	Unspecified anaemia	2	0.68	11.15 ± 12.62	22.30	0.40	0.59	1	0.44	1.16 ± 0	1.16	0.01	0.03
	Vitamin deficiency	27	9.12	1.16 ± 0.81	31.45	0.56	0.06	32	14.16	2.96 ± 3.77	94.81	1.14	0.08
	Mineral deficiency	18	6.08	1.83 ± 4.23	33.00	0.59	0.10						
	Disorders of acid-base balance	7	2.36	0.68 ± 0.27	4.76	0.09	0.04	1	0.44	27.33 ± 0	27.33	0.33	0.74
	Other disorders of fluid & electrolyte balance	4	1.35	17.69 ± 19.55	70.76	1.27	0.94	2	0.88	0.76 ± 0	1.52	0.02	0.02
	Inflammation							1	0.44	2.09 ± 0	2.09	0.03	0.06
	Epilepsy	9	3.04	21.37 ± 36.41	192.37	**3.45**	1.14	11	4.87	31.32 ± 24.34	344.51	**4.15**	0.85
	Conjunctivitis							3	1.33	3.88 ± 1.92	11.64	0.14	0.11
	Otitis media	5	1.69	7.85 ± 2.80	39.26	0.70	0.42						
	Rheumatic fever without mention of heart involvement	1	0.34	0.46 ± 0	0.46	0.01	0.02						
	Hypertention	45	15.20	42.84 ± 96.12	1928.01	**34.59**	**2.28**						
	Sinusitis							2	0.88	2.55 ± 0.28	5.10	0.06	0.07
	Tonsillitis (bacterial)	10	3.38	18.07 ± 18.46	180.70	**3.24**	0.96						

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>6≤12	Brongopneomonia, unspecified	2	0.68	3.03 ± 1.13	6.06	0.11	0.16						
	Asthma, acute OR asthma, chronic persistent	13	4.39	1.86 ± 1.01	24.17	0.43	0.10	15	6.64	10.65 ± 10.05	159.71	1.92	0.29
	Dental abscess	3	1.01	1.07 ± 1.36	3.20	0.06	0.06	3	1.33	3.47 ± 2.82	10.42	0.13	0.09
	Mouth abscess	3	1.01	22.37 ± 29.09	67.11	1.20	1.19	2	0.88	4.62 ± 2.83	9.24	0.11	0.13
	Boils / impetigo	3	1.01	5.78 ± 7.49	17.34	0.31	0.31						
	Rash	1	0.34	1.22 ± 0	1.22	0.02	0.06						
	Urinary track infection, uncomplicated							1	0.44	1.82 ± 0	1.82	0.02	0.05
	Cough	1	0.34	1.71 ± 0	1.71	0.03	0.09	5	2.21	1.99 ± 0.38	9.95	0.12	0.05
	Nausea	2	0.68	7.46 ± 7.53	14.91	0.27	0.40						
	Pain control	40	13.51	1.80 ± 1.65	72.08	1.29	0.10	46	20.35	2.47 ± 2.00	113.52	1.37	0.07
	Feeding supplement	1	0.34	7.30 ± 0	7.30	0.13	0.39						
	Foreign body in ear (wax)							3	1.33	8.16 ± 7.72	24.48	0.29	0.22
	Rape	3	1.01	2.84 ± 4.10	8.52	0.15	0.15						
	Antihistamine for allergies	1	0.34	1.46 ± 0	1.46	0.03	0.08	7	3.10	1.56 ± 0.28	10.93	0.13	0.04
	Sedation	1	0.34	1.05 ± 0	1.05	0.02	0.06	1	0.44	0.53 ± 0	0.53	0.01	0.01
	Immunisation	1	0.34	1.06 ± 0	1.06	0.02	0.06	1	0.44	1.06 ± 0	1.06	0.01	0.03
	Total	**296**	**100**		**5573.82**	**100**		**226**	**100**		**8302.94**	**100**	
>12≤19	Undefined bacterial infection	22	10.63	57.75 ± 180.98	1270.50	**31.07**	**2.92**	19	12.10	5.13 ± 6.81	97.47	**5.88**	0.49
	Unspecified HIV							2	1.27	5.92 ± 2.30	11.84	0.71	0.56
	Scabies							5	3.18	8.77 ± 14.06	43.87	2.65	0.83
	Unspecified folate deficiency anemia	8	3.86	0.56 ± 0.47	4.49	0.11	0.03						
	Unspecified anaemia	13	6.28	1.00 ± 0.66	13.06	0.32	0.05						
	Unspecified coagulation defects	6	2.90	60.27 ± 87.76	361.59	**8.84**	**3.05**	2	1.27	31.18 ± 10.05	62.37	**3.76**	**2.95**
	Vitamin deficiency	23	11.11	0.55 ± 0.57	12.61	0.31	0.03	8	5.10	1.11 ± 0.92	8.86	0.53	0.10
	Mineral deficiency	5	2.42	6.94 ± 11.55	34.72	0.85	0.35	1	0.64	27.33 ± 0	27.33	1.65	**2.59**
	Other disorders of fluid & electrolyte balance	2	0.97	10.05 ± 0	20.11	0.49	0.51						

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>12≤19	Bipolar affective disorder	1	0.48	0.12 ± 0	0.12	0.00	0.01						
	Bipolar disorder	3	1.45	0.41 ± 0.53	1.23	0.03	0.02						
	Major depressive disorder	2	0.97	3.09 ± 0.80	6.17	0.15	0.16	1	0.64	2.52 ± 0	2.52	0.15	0.24
	Inflammation	5	2.42	3.01 ± 4.74	15.05	0.37	0.15						
	Parkinsonism	3	1.45	9.18 ± 2.28	27.53	0.67	0.46						
	Epilepsy	3	1.45	18.71 ± 14.32	56.14	1.37	0.95	1	0.64	20.37 ± 0	20.37	1.23	1.93
	Otitis media							1	0.64	3.46 ± 0	3.46	0.21	0.33
	Rheumatic fever without mention of heart involvement	14	6.76	90.02 ± 159.94	1260.32	**30.83**	**4.56**						
	Hypertension	4	1.93	1.49 ± 0.97	5.98	0.15	0.08						
	Sinusitis	2	0.97	4.05 ± 2.41	8.11	0.20	0.21	1	0.64	2.75 ± 0	2.75	0.17	0.26
	Pneumonia, unspecified	4	1.93	51.17 ± 86.12	204.68	**5.01**	**2.59**						
	Asthma, acute OR asthma, chronic persistent							9	5.73	15.62 ± 14.97	140.58	**8.48**	1.48
	Dental abscess							5	3.18	1.30 ± 0.29	6.49	0.39	0.12
	Mouth abscess							2	1.27	1.47 ± 0.49	2.94	0.18	0.14
	Abdominal cramp							1	0.64	1.50 ± 0	1.50	0.09	0.14
	Muscle relaxant	2	0.97	2.73 ± 3.10	5.47	0.13	0.14						
	Urinary track infection, uncomplicated							1	0.64	3.46 ± 0	3.46	0.21	0.33
	Pelvic inflammation disease	6	2.90	30.45 ± 57.41	182.68	**4.47**	1.54						
	Abortion, complicated, therapeutic, legal	6	2.90	15.94 ± 25.02	95.63	2.34	0.81	3	1.91	4.66 ± 5.75	13.97	0.84	0.44
	Cough	1	0.48	1.45 ± 0	1.45	0.04	0.07						
	Nausea	8	3.86	1.46 ± 1.41	11.70	0.29	0.07	2	1.27	1.71 ± 0.59	3.43	0.21	0.16
	Pain control	59	28.50	7.45 ± 25.36	439.55	**10.75**	0.38	78	49.68	11.48 ± 32.89	895.70	**54.06**	1.09
	Foreign body in ear (wax)							1	0.64	2.75 ± 0	2.75	0.17	0.26
	Rape							3	1.91	86.80 ± 147.72	260.40	**15.72**	**8.22**
	Antihistamine for allergies	1	0.48	1.46 ± 0	1.46	0.04	0.07	6	3.82	0.96 ± 0.68	5.73	0.35	0.09
	Unknown diagnosis							1	0.64	16.53 ± 0	16.53	1.00	1.57

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>12≤19	Immunisation	1	0.48	2.12 ± 0	2.12	0.05	0.11	3	1.91	1.06 ± 0	3.18	0.19	0.10
	Family planning	3	1.45	15.37 ± 8.16	46.11	1.13	0.78	1	0.64	19.37 ± 0	19.37	1.17	1.84
	Total	**207**	**100**		**4088.58**	**100**		**157**	**100**		**1656.87**	**100**	
>19≤40	Diarrhoea, infective / food poisoning	31	1.48	34.26 ± 68.90	1062.19	2.11	1.43	4	0.20	1.27 ± 0.49	5.09	0.01	0.07
	Tuberculosis	90	4.30	31.99 ± 47.71	2879.11	**5.72**	1.33	24	1.20	36.52 ± 13.59	876.54	**2.51**	2.09
	STD suspicion	5	0.24	3.90 ± 4.67	19.49	0.04	0.16	16	0.80	8.56 ± 25.32	137.03	0.39	0.49
	Herpes viral inflammation of perianal skin & rectum	2	0.10	8.92 ± 9.44	17.84	0.04	0.37						
	Genital warts	3	0.14	10.30 ± 7.57	30.90	0.06	0.43	1	0.05	42.66 ± 0	42.66	0.12	**2.45**
	Herpes implex / cold sore							1	0.05	7.18 ± 0	7.18	0.02	0.41
	Undefined bacterial infection	251	11.98	42.07 ± 129.85	10559.37	**20.99**	1.75	224	11.19	18.28 ± 104.78	4093.78	**11.73**	1.05
	Undefined viral infection	14	0.67	79.13 ± 160.29	1107.86	2.20	**3.30**	7	0.35	7.34 ± 9.58	51.39	0.15	0.42
	Karposi's sarcoma	4	0.19	27.77 ± 43.46	11.09	0.02	0.12						
	Unspecified HIV	102	4.87	38.57 ± 59.37	3934.61	**7.82**	1.61	330	16.48	49.63 ± 74.67	16378.96	**46.91**	**2.85**
	Fungal skin infection	5	0.24	31.25 ± 19.82	156.26	0.31	1.30	8	0.40	11.73 ± 15.23	93.81	0.27	0.67
	Scabies							5	0.25	5.62 ± 7.51	28.11	0.08	0.32
	Candidiasis	8	0.38	21.43 ± 19.11	171.48	0.34	0.89	1	0.05	3.60 ± 0	3.60	0.01	0.21
	Worm infections except tape worm	1	0.05	5.84 ± 0	5.84	0.01	0.24	4	0.20	8.76 ± 5.84	35.03	0.10	0.50
	Hypercalcaemia	1	0.05	9.24 ± 0	9.24	0.02	0.38						
	Unspecified folate deficiency anemia	76	3.63	0.54 ± 0.42	40.96	0.08	0.02	22	1.10	1.00 ± 0	21.93	0.06	0.06
	Unspecified anemia	93	4.44	1.21 ± 1.32	112.87	0.22	0.05	28	1.40	2.42 ± 2.66	67.86	0.19	0.14
	Unspecified coagulation defects	25	1.19	23.39 ± 50.98	584.82	1.16	0.97	16	0.80	15.39 ± 40.00	246.28	0.71	0.88
	Diabetes mellitus type 1	8	0.38	11.17 ± 25.27	89.35	0.18	0.47	6	0.30	13.64 ± 17.92	81.84	0.23	0.78
	Diabetes mellitus type 2	8	0.38	2.18 ± 2.62	17.41	0.03	0.09	13	0.65	7.68 ± 3.79	99.86	0.29	0.44
	Hypoglycaemia / hyperglycaemia in diabetes mellitus	1	0.05	3.69 ± 0	3.68	0.01	0.15						
	Vitamin deficiency	275	13.13	0.87 ± 1.44	240.44	0.48	0.04	265	13.24	2.44 ± 6.02	646.13	1.85	0.14
	Mineral deficiency	18	0.86	1.25 ± 1.34	22.44	0.04	0.05	19	0.95	3.11 ± 3.01	59.13	0.17	0.18
	Disorders of acid-base balance	14	0.67	12.01 ± 12.04	168.10	0.33	0.50	23	1.15	17.26 ± 12.04	396.94	1.14	0.99

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>19≤40	Other disorders of fluid & electrolyte balance	44	2.10	13.91 ± 11.60	612.21	1.22	0.58	8	0.40	8.59 ± 8.91	68.70	0.20	0.49
	Schizophrenic disorder							2	0.10	16.61 ± 0	33.23	0.10	0.95
	Bipolar disorder	38	1.81	12.75 ± 34.63	484.62	0.96	0.53	7	0.35	2.41 ± 1.34	16.88	0.05	0.14
	Major depressive disorder	37	1.77	11.18 ± 11.38	413.75	0.82	0.47	34	1.70	16.20 ± 8.84	550.64	1.58	0.93
	Meningitis, bacterial	2	0.10	18.49 ± 0	36.97	0.07	0.77						
	Inflammation	66	3.15	19.72 ± 44.42	1301.57	2.59	0.82	56	2.80	6.28 ± 13.49	351.78	1.01	0.36
	Parkinsonism	1	0.05	12.80 ± 0	12.80	0.03	0.53						
	Epilepsy	29	1.38	26.70 ± 31.32	774.41	1.54	1.11	65	3.25	21.39 ± 18.68	1390.18	**3.98**	1.23
	Acute inflammation of orbit (cellulites of the eye)	8	0.38	17.44 ± 31.34	139.51	0.28	0.73						
	Conjunctivitis	7	0.33	2.12 ± 1.15	14.81	0.03	0.09	10	0.50	6.02 ± 8.50	60.18	0.17	0.35
	Hypertension	52	2.48	12.19 ± 33.80	633.96	1.26	0.51	11	0.55	36.36 ± 23.87	399.91	1.15	**2.08**
	Angina	3	0.14	2.00 ± 2.03	6.01	0.01	0.08	2	0.10	4.29 ± 0	8.59	0.02	0.25
	Congestive cardiac failure	3	0.14	163.87 ± 126.25	491.62	0.98	**6.83**						
	Haemorrhoids	5	0.24	6.47 ± 5.32	32.36	0.06	0.27	5	0.25	14.07 ± 0	70.35	0.20	0.81
	Sinusitis							9	0.45	2.53 ± 0.21	22.76	0.07	0.15
	Tonsillitis (bacterial)							3	0.15	11.31 ± 5.85	33.94	0.10	0.65
	Acute upper respiratory track infection, unspesified							7	0.35	10.68 ± 7.50	74.79	0.21	0.61
	Brongopneomonia, unspecified	6	0.29	36.44 ± 59.72	218.66	0.43	1.52	1	0.05	3.46 ± 0	3.46	0.01	0.20
	Pneumonia, unspecified	50	2.39	32.82 ± 55.92	1640.96	**3.26**	1.37						
	Allergic rhinitis							1	0.05	2.19 ± 0	2.19	0.01	0.13
	Chronic obstructive pulmonary disease with acute lower respiratory infection							1	0.05	3.46 ± 0	3.46	0.01	0.20
	Asthma, acute OR asthma, chronic persistent	30	1.43	6.18 ± 9.51	185.36	0.37	0.26	45	2.25	13.97 ± 12.48	628.46	1.80	0.80
	Abscess of the lung without pneumonia	16	0.76	50.67 ± 83.66	810.70	1.61	**2.11**						

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>19≤40	Haemothorax	2	0.10	10.93 ± 10.56	21.85	0.04	0.46						
	Dental abscess	4	0.19	0.68 ± 0.58	2.72	0.01	0.03	11	0.55	1.18 ± 0	13.02	0.04	0.07
	Mouth abscess	9	0.43	39.01 ± 95.70	351.10	0.70	1.62	2	0.10	2.39 ± 0.22	4.79	0.01	0.14
	Peptic ulcer	1	0.05	1.12 ± 0	1.12	0.00	0.05						
	Gastritis - acute, haemorrhagic	11	0.53	11.81 ± 18.85	129.87	0.26	0.49						
	Urinary tract infection	2	0.10	1.41 ± 1.59	2.81	0.01	0.06						
	Constipation	22	1.05	28.18 ± 71.14	620.04	1.23	1.17	4	0.20	7.75 ± 3.42	30.99	0.09	0.44
	Abdominal cramp	10	0.48	11.11 ± 20.21	111.12	0.22	0.46	8	0.40	2.84 ± 1.05	22.75	0.07	0.16
	Unspecified cellulites	16	0.76	29.92 ± 41.61	478.68	0.95	1.25						
	Rash							3	0.15	4.47 ± 6.29	13.40	0.04	0.26
	Pruritis							7	0.35	2.42 ± 1.13	16.95	0.05	0.14
	Septic Arthritis, acute	10	0.48	36.13 ± 54.30	361.27	0.72	1.50						
	Muscle relaxant	9	0.43	2.46 ± 2.35	22.16	0.04	0.10	3	0.15	4.93 ± 0	14.78	0.04	0.28
	Nephritis	5	0.24	51.79 ± 99.30	258.96	0.51	**2.16**						
	Urinary track infection, uncomplicated	6	0.29	24.89 ± 44.36	149.32	0.30	1.04	15	0.75	6.78 ± 8.00	101.68	0.29	0.39
	Bartholin's abses	7	0.33	30.80 ± 72.89	215.57	0.43	1.28						
	Abortion, complicated, therapeutic, legal	28	1.34	29.66 ± 56.80	830.58	1.65	1.24	36	1.80	5.25 ± 5.58	189.09	0.54	0.30
	Abscess of the breast	6	0.29	39.82 ± 69.91	238.90	0.47	1.66						
	Cough	3	0.14	1.86 ± 1.35	5.59	0.01	0.08	20	1.00	2.63 ± 0.49	52.54	0.15	0.15
	Gastro diarrhoea	3	0.14	0.12 ± 0.12	0.37	0.00	0.01						
	Nausea	30	1.43	2.81 ± 2.98	84.31	0.17	0.12	19	0.95	1.09 ± 0.72	20.66	0.06	0.06
	Pain control	412	19.67	39.08 ± 158.72	16099.68	**32.01**	1.63	516	25.77	12.79 ± 34.06	6601.74	**18.91**	0.73
	Foreign body in ear (wax)							5	0.25	11.30 ± 7.81	56.50	0.16	0.65
	Bites and stings	4	0.19	41.55 ± 50.24	166.22	0.33	1.73						
	Rape							3	0.15	86.68 ± 147.82	260.04	0.74	4.97
	Antihistamine for allergies	14	0.67	6.47 ± 14.24	90.58	0.18	0.27	36	1.80	2.27 ± 0.72	81.89	0.23	0.13
	Failed or difficult intubations	1	0.05	0.44 ± 0	0.44	0.00	0.02	1	0.05	0.22 ± 0	0.22	0.00	0.01
	Sedation	20	0.95	0.55 ± 0.91	10.91	0.02	0.02						

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>19≤40	Unknown diagnosis	10	0.48	10.95 ± 9.41	109.53	0.22	0.46	10	0.50	30.31 ± 77.22	303.14	0.87	1.74
	Hormone replacement therapy							1	0.05	12.40 ± 0	12.40	0.04	0.71
	Immunisation	7	0.33	4.55 ± 7.37	31.83	0.06	0.19	18	0.90	1.36 ± 0.49	24.40	0.07	0.08
	Family planning	7	0.33	108.16 ± 218.23	757.12	1.51	**4.50**						
	Post partum bleeding	1	0.05	66.11 ± 0	66.11	0.13	**2.75**						
	Total	**2092**	**100**		**50274.39**	**100**		**2002**	**100**		**34913.63**	**100**	
>40≤60	Diarrhoea, infective / food poisoning	8	0.53	3.25 ± 6.28	26.02	0.09	0.16	12	0.60	5.04 ± 6.15	60.42	0.14	0.23
	Tuberculosis	56	3.74	33.94 ± 49.15	1900.61	**6.35**	1.70	11	0.55	38.52 ± 13.99	423.72	0.99	1.78
	STD suspicion							6	0.30	52.58 ± 101.13	315.49	0.73	**2.43**
	Genital warts							4	0.20	31.58 ± 12.15	126.32	0.29	1.46
	Undefined bacterial infection	183	12.22	33.79 ± 82.06	6183.18	**20.65**	1.69	137	6.89	7.97 ± 11.22	1091.75	2.54	0.37
	Undefined viral infection	1	0.07	3.09 ± 0	3.08	0.01	0.15	3	0.15	11.63 ± 14.80	34.89	0.08	0.54
	Unspecified HIV	76	5.08	28.64 ± 46.38	2176.50	**7.27**	1.43	281	14.13	78.49 ± 106.11	22055.08	**51.32**	**3.63**
	Fungal skin infection	5	0.33	2.54 ± 0.02	12.70	0.04	0.13	8	0.40	14.80 ± 20.76	118.40	0.28	0.69
	Candidiase	1	0.07	3.99 ± 0	3.99	0.01	0.20						
	Malaria							1	0.05	1.68 ± 0	1.68	0.00	0.08
	Worm infections except tape worm	1	0.07	5.84 ± 0	5.84	0.02	0.29	3	0.15	7.79 ± 3.37	23.36	0.05	0.36
	Malignant neoplasm of testis, unspecified	7	0.47	49.96 ± 96.15	349.69	1.17	**2.50**						
	Multiple myeloma	2	0.13	77.18 ± 63.95	154.34	0.52	**3.86**						
	Unspecified folate deficiency anemia	22	1.47	0.72 ± 0.42	15.85	0.05	0.04	11	0.55	1.00 ± 0	10.97	0.03	0.05
	Unspecified anemia	32	2.14	3.20 ± 10.20	102.50	0.34	0.16	8	0.40	2.81 ± 1.50	22.47	0.05	0.13
	Unspecified coagulation defects	58	3.87	68.73 ± 362.65	3986.38	**13.31**	**3.44**	61	3.07	9.80 ± 22.09	597.89	1.39	0.45
	Diabetes mellitus type 1	21	1.40	28.55 ± 33.53	599.64	2.00	1.43	28	1.41	49.20 ± 50.12	1377.65	**3.21**	**2.28**
	Diabetes mellitus type 2	46	3.07	4.13 ± 4.16	189.96	0.63	0.21	25	1.26	7.84 ± 3.49	196.11	0.46	0.36
	Pellagra	2	0.13	2.22 ± 2.62	4.44	0.01	0.11						
	Vitamin deficiency	165	11.02	0.85 ± 1.40	140.99	0.47	0.04	204	10.26	1.89 ± 2.64	385.72	0.90	0.09
	Mineral deficiency	15	1.00	2.18 ± 1.88	32.77	0.11	0.11	16	0.80	2.48 ± 1.06	39.61	0.09	0.11
	Cholesterol	1	0.07	15.15 ± 0	15.15	0.05	0.76	3	0.15	7.61 ± 1.72	22.83	0.05	0.35

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>40≤60	Disorders of acid-base balance	43	2.87	8.37 ± 9.99	359.95	1.20	0.42	26	1.31	16.19 ± 12.39	420.91	0.98	0.75
	Other disorders of fluid & electrolyte balance	27	1.80	10.19 ± 7.46	275.02	0.92	0.51	7	0.35	1.64 ± 2.42	11.46	0.03	0.08
	Schizophrenic disorder							1	0.05	8.82 ± 0	8.81	0.02	0.41
	Bipolar disorder	13	0.87	14.14 ± 26.92	183.87	0.61	0.71	21	1.06	3.30 ± 1.50	69.30	0.16	0.15
	Major depressive disorder	32	2.14	12.67 ± 17.17	405.28	1.35	0.63	45	2.26	16.31 ± 9.75	734.14	1.71	0.76
	Inflammation	29	1.94	28.71 ± 61.67	832.52	2.78	1.44	86	4.32	3.41 ± 5.63	293.37	0.68	0.16
	Parkinsonism							2	0.10	69.00 ± 0	138.00	0.32	**3.19**
	Epilepsy	38	2.54	20.84 ± 25.39	791.89	2.64	1.04	84	4.22	23.19 ± 14.09	1948.27	**4.53**	1.07
	Conjunctivitis							4	0.20	3.97 ± 1.52	15.86	0.04	0.18
	Hypertension	162	10.82	10.66 ± 38.06	1727.47	**5.77**	0.53	233	11.71	19.88 ± 54.03	4632.32	**10.78**	0.92
	Angina	8	0.53	4.66 ± 9.08	37.30	0.12	0.23	6	0.30	5.44 ± 3.71	32.63	0.08	0.25
	Congestive cardiac failure	2	0.13	17.22 ± 21.81	34.43	0.11	0.86						
	Cardial failure	7	0.47	3.52 ± 2.54	24.66	0.08	0.18	7	0.35	3.37 ± 0	23.59	0.05	0.16
	Arteriosclerotic gangerene	2	0.13	89.41 ± 81.26	178.81	0.60	**4.47**						
	Haemorrhoids	1	0.07	14.07 ± 0	14.07	0.05	0.70	3	0.15	10.04 ± 7.80	30.12	0.07	0.46
	Sinusitis							5	0.25	5.80 ± 7.04	29.00	0.07	0.27
	Tonsillitis (bacterial)							2	0.10	7.72 ± 6.03	15.44	0.04	0.36
	Acute upper respiratory track infection, unspecified							1	0.05	3.46 ± 0	3.46	0.01	0.16
	Brongopneomonia, unspecified	1	0.07	18.39 ± 0	18.39	0.06	0.92						
	Pneumonia, unspecified	8	0.53	48.57 ± 92.97	388.56	1.30	**2.43**						
	Chronic obstructive pulmonary disease with acute lower respiratory infection	2	0.13	13.28 ± 7.24	26.55	0.09	0.66	1	0.05	1.82 ± 0	1.82	0.00	0.08
	Asthma, acute OR asthma, chronic persistent	40	2.67	11.73 ± 15.57	469.24	1.57	0.59	27	1.36	10.37 ± 14.05	279.96	0.65	0.48
	Abscess of the lung without pneumonia	6	0.40	15.74 ± 18.07	94.45	0.32	0.79						
	Dental abscess							10	0.50	1.25 ± 0.21	12.50	0.03	0.06

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>40≤60	Mouth abscess	6	0.40	78.83 ± 130.68	472.98	1.58	**3.94**	1	0.05	15.60 ± 0	15.60	0.04	0.72
	Peptic ulcer	9	0.60	32.16 ± 46.90	289.41	0.97	1.61						
	Gastritis - acute, haemorrhagic	4	0.27	2.54 ± 3.03	10.16	0.03	0.13						
	Appendicitis, unspecified	3	0.20	47.85 ± 71.89	143.55	0.48	**2.39**						
	Constipation	6	0.40	5.14 ± 5.10	30.86	0.10	0.26	5	0.25	4.07 ± 0.80	20.36	0.05	0.19
	Alcohol liver disease, unspecified	4	0.27	86.42 ± 160.10	345.69	1.15	**4.32**						
	Abdominal cramps	12	0.80	1.94 ± 1.24	23.27	0.08	0.10	8	0.40	2.59 ± 1.66	20.75	0.05	0.12
	Dermatitis herpetiformis	3	0.20	30.63 ± 23.01	91.88	0.31	1.53						
	Pruritis							3	0.15	2.19 ± 1.14	6.57	0.02	0.10
	Psoriasis							11	0.55	9.88 ± 3.60	108.68	0.25	0.46
	Gout	1	0.07	0.28 ± 0	0.28	0.00	0.01	2	0.10	11.69 ± 1.37	23.38	0.05	0.54
	Muscle relaxant	4	0.27	3.96 ± 4.45	15.83	0.05	0.20	15	0.75	4.93 ± 0	73.88	0.17	0.23
	Urinary track infection, uncomplicated							2	0.10	1.40 ± 1.62	2.80	0.01	0.06
	Abortion, complicated, therapeutic, legal							11	0.55	4.57 ± 5.33	50.22	0.12	0.21
	Cough	7	0.47	1.53 ± 0.69	10.73	0.04	0.08	7	0.35	2.31 ± 0.26	16.17	0.04	0.11
	Nausea	37	2.47	3.86 ± 5.51	142.84	0.48	0.19	20	1.01	1.62 ± 1.11	32.49	0.08	0.08
	Pain control	250	16.70	25.09 ± 140.49	6273.28	**20.95**	1.25	447	22.47	14.25 ± 35.32	6370.29	**14.82**	0.66
	Wound caring	1	0.07	59.64 ± 0	59.64	0.20	**2.98**						
	Foreign body in ear (wax)	1	0.07	17.00 ± 0	17.00	0.06	0.85	2	0.10	17.69 ± 21.13	35.38	0.08	0.82
	Burns, complicated							1	0.05	3.16 ± 0	3.46	0.01	0.16
	Antihistamine for allergies	9	0.60	1.74 ± 0.45	15.62	0.05	0.09	34	1.71	1.87 ± 1.22	63.74	0.15	0.09
	Failed or difficult intubations	1	0.07	1.05 ± 0	1.05	0.00	0.05						
	Sedation	6	0.40	0.51 ± 0.46	3.04	0.01	0.03	6	0.30	0.37 ± 0.34	2.25	0.01	0.02
	Unknown diagnosis	8	0.53	25.21 ± 40.70	201.67	0.67	1.26	13	0.65	13.60 ± 152.64	176.74	0.41	0.63
	Hormone replacement therapy	2	0.13	13.53 ± 1.60	27.06	0.09	0.68	4	0.20	12.40 ± 0	49.60	0.12	0.57
	Immunisation							2	0.10	1.06 ± 0	2.12	0.00	0.05
	Family planning							2	0.10	56.96 ± 0	113.92	0.27	2.64
	Total	**1497**	**100**		**29941.93**	**100**		**1989**	**100**		**42793.72**	**99.58**	

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>60	Diarrhoea, infective / food poisoning	25	2.27	32.23 ± 73.86	805.76	**4.25**	1.87	5	0.61	1.54 ± 1.13	7.70	0.06	0.10
	Tuberculosis	5	0.45	11.25 ± 10.62	56.24	0.30	0.65						
	Septicemia	2	0.18	0.37 ± 0.16	0.74	0.00	0.02						
	STD suspicion							3	0.37	1.35 ± 1.01	4.05	0.03	0.09
	Vaginal discharge	1	0.09	0.33 ± 0	0.33	0.00	0.02						
	Rabies							6	0.74	324.37 ± 0	1946.21	**15.54**	**21.09**
	Undefined bacterial infection	60	5.45	28.39 ± 48.17	1703.14	**8.99**	1.65	45	5.53	12.05 ± 12.38	542.47	4.33	0.78
	Undefined viral infection							1	0.12	14.36 ± 0	14.36	0.11	0.93
	Fungal skin infection							1	0.12	2.55 ± 0	2.55	0.02	0.17
	Candidiasis	5	0.45	1.12 ± 1.10	5.59	0.03	0.06	1	0.12	3.99 ± 0	3.99	0.03	0.26
	Worm infections except tape worm	3	0.27	5.84 ± 0	17.52	0.09	0.34						
	Cancer of penis, unspecified	2	0.18	23.46 ± 12.98	46.92	0.25	1.36						
	Unspecified folate deficiency anemia	18	1.64	0.57 ± 0.44	10.29	0.05	0.03	2	0.25	1.00 ± 0	1.99	0.02	0.06
	Unspecified anemia	21	1.91	0.99 ± 0.97	20.87	0.11	0.06	4	0.49	2.95 ± 1.48	11.81	0.09	0.19
	Unspecified coagulation defects	52	4.73	8.64 ± 20.52	449.04	2.37	0.50	44	5.41	3.91 ± 6.57	172.24	1.38	0.25
	Hypothyroidism, unspecified	9	0.82	5.76 ± 2.62	541.87	2.86	**3.49**						
	Diabetes mellitus type 1	17	1.55	35.22 ± 34.14	598.71	**3.16**	**2.04**						
	Diabetes mellitus type 2	41	3.73	5.54 ± 4.31	227.09	1.20	0.32	24	2.95	8.74 ± 3.13	209.88	1.68	0.57
	Hypoglycaemia / hyperglycaemia in diabetes mellitus	4	0.36	823.76 ± 926.27	3295.02	**17.39**	**47.82**						
	Vitamin deficiency	102	9.27	0.51 ± 0.68	52.00	0.27	0.03	47	5.77	0.84 ± 0.94	39.64	0.32	0.05
	Mineral deficiency	30	2.73	1.95 ± 3.11	58.47	0.31	0.11	17	2.09	2.42 ± 1.37	41.15	0.33	0.16
	Cholesterol	3	0.27	3.89 ± 4.99	11.66	0.06	0.23	2	0.25	8.11 ± 2.11	16.22	0.13	0.53
	Sodium & water disturbances	1	0.09	27.33 ± 0	27.33	0.14	1.59						
	Disorders of acid-base balance	35	3.18	13.74 ± 11.71	480.37	2.53	0.80	10	1.23	19.92 ± 11.95	199.18	1.59	1.29
	Other disorders of fluid & electrolyte balance	21	1.91	14.84 ± 19.47	311.55	1.64	0.86	2	0.25	0.38 ± 0	0.76	0.01	0.02
	Schizophrenic disorder							1	0.12	8.82 ± 0	8.82	0.07	0.57
	Bipolar disorder	12	1.09	0.88 ± 0.96	10.51	0.06	0.05	1	0.12	1.79 ± 0	1.79	0.01	0.12

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>60	Major depressive disorder	21	1.91	10.00 ± 11.30	210.02	1.11	0.58	23	2.83	19.02 ± 5.27	437.50	**3.49**	1.24
	Inflammation	17	1.55	3.51 ± 8.42	59.61	0.31	0.20	21	2.58	6.68 ± 9.06	140.20	1.12	0.43
	Parkinsonism	3	0.27	39.89 ± 50.81	119.68	0.63	**2.32**						
	Epilepsy	25	2.27	15.19 ± 19.50	379.84	2.00	0.88	17	2.09	13.72 ± 8.79	233.23	1.86	0.89
	Conjunctivitis							8	0.98	15.20 ± 11.63	121.62	0.97	0.99
	Hypertension	206	18.73	8.35 ± 16.17	1719.13	**9.07**	0.48	195	23.96	17.93 ± 27.43	3496.84	**27.92**	1.17
	Congestive cardiac failure	8	0.73	27.93 ± 55.30	223.46	1.18	1.62						
	Cardial failure	7	0.64	1.89 ± 1.65	13.22	0.07	0.11	10	1.23	4.25 ± 1.35	42.54	0.34	0.28
	Haemorrhoids							3	0.37	14.07 ± 0	42.21	0.34	0.91
	Sinusitis							3	0.37	2.64 ± 0.25	7.92	0.06	0.17
	Acute upper respiratory track infection, unspecified							1	0.12	2.61 ± 0	2.61	0.02	0.17
	Pneumonia, unspecified	7	0.64	65.85 ± 86.91	460.97	2.43	**3.82**						
	Asthma, acute OR asthma, chronic persistent	15	1.36	7.48 ± 5.39	112.13	0.59	0.43	44	5.41	14.59 ± 10.67	641.84	**5.13**	0.95
	Dental abscess	2	0.18	1.18 ± 0	2.37	0.01	0.07	2	0.25	1.23 ± 0.06	2.46	0.02	0.08
	Mouth abscess	4	0.36	14.59 ± 17.925	58.37	0.31	0.85						
	Peptic ulcer	5	0.45	62.08 ± 105.42	310.41	1.64	**3.60**						
	Gastritis - acute, haemorrhagic	10	0.91	30.68 ± 75.52	306.79	1.62	1.78						
	Urinary tract infection	1	0.09	4.53 ± 0	4.53	0.02	0.26						
	Constipation	6	0.55	8.71 ± 11.61	52.24	0.28	0.51	1	0.12	4.43 ± 0	4.43	0.04	0.29
	Gastrointestinal haemorrhage, unspecified	2	0.18	1.68 ± 1.85	3.36	0.02	0.10						
	Abdominal cramps	6	0.55	3.10 ± 1.76	18.60	0.10	0.18	2	0.25	2.31 ± 1.68	4.62	0.04	0.15
	Pruritus							4	0.49	1.61 ± 1.02	6.44	0.05	0.10
	Psoriasis							1	0.12	0.13 ± 0	0.13	0.00	0.01
	Gout	4	0.36	24.87 ± 29.22	99.46	0.52	1.44	1	0.12	6.33 ± 0	6.33	0.05	0.41
	Muscle relaxant	1	0.09	1.05 ± 0	1.05	0.01	0.06	1	0.12	1.40 ± 0	1.40	0.01	0.09
	Chronic obstructive pyelonephritis	3	0.27	35.83 ± 53.95	107.49	0.57	**2.08**						

Appendix D.31: Average cost per medicine item according to ICD-10 codes and age group (continue)

Age group (years)	ICD-10 code	Inpatients						Outpatients					
		Prevalence		Cost			CPI	Prevalence		Cost			CPI
		n	%*	Mean & Std dev	R	%**		n	%*	Mean & Std dev	R	%**	
>60	Urinary track infection, uncomplicated	7	0.64	12.18 ± 13.27	85.26	0.45	0.71	3	0.37	16.90 ± 25.13	50.70	0.40	1.10
	Benign prostatic hyperplasia	2	0.18	13.39 ± 16.06	26.79	0.14	0.78						
	Congenital malformations of heart, unspecified	1	0.09	4.53 ± 0	4.53	0.02	0.26						
	Cough	4	0.36	2.41 ± 0	9.64	0.05	0.14	3	0.37	2.75 ± 0.58	8.24	0.07	0.18
	Nausea	28	2.55	7.60 ± 9.54	212.69	1.12	0.44	4	0.49	1.20 ± 0.99	4.80	0.04	0.08
	Pain control	210	19.09	25.33 ± 110.01	5318.56	**28.07**	1.47	233	28.62	17.01 ± 46.79	3962.37	**31.64**	1.11
	Foreign body in ear (wax)							2	0.25	2.75 ± 0	5.50	0.04	0.18
	Antihistamine for allergies	8	0.73	0.95 ± 0.76	7.57	0.04	0.05	10	1.23	2.19 ± 0	21.90	0.17	0.14
	Sedation	3	0.27	0.43 ± 0.53	1.30	0.01	0.03	1	0.12	1.05 ± 0	1.05	0.01	0.07
	Unknown diagnosis	15	1.36	24.02 ± 47.10	289.47	1.53	1.12	1	0.12	1.02 ± 0	1.02	0.01	0.07
	Hormone replacement therapy							4	0.49	12.40 ± 0	49.60	0.40	0.81
	Total	**1100**	**100**		**18949.56**	**100**		**814**	**100**		**12522.31**	**100**	

* Percentage was calculated for ICD-10 codes according to the total number of medicine items dispenced to inpatients and outpatients in the different age groups respectively

** Percentage was calculated for ICD-10 codes according to the total cost for inpatients and outpatients in the different age groups respectively

Appendix D.32: Total cost of top 10 ICD-10 codes

ICD-10 code	Inpatients			ICD-10 code	Outpatients		
	Rank	R	%*		Rank	R	%*
Pain control	1	28382.76	23.32	Unspecified HIV	1	46992.64	45.64
Undefined bacterial infection	2	23926.85	19.66	Pain control	2	18229.81	17.70
Unspecified HIV	3	9373.76	7.70	Hypertension	3	8538.91	8.29
Hypertension	4	6021.38	4.95	Undefined bacterial infection	4	6423.63	6.24
Tuberculosis	5	5845.88	4.80	Epilepsy	5	4110.29	3.99
Unspecified coagulation defects	6	5381.84	4.42	Asthma	6	1951.80	1.90
Gastro diarrhoea	7	3536.74	2.91	Rabies	7	1946.21	1.89
Pneumonia, unspecified	8	3401.00	2.79	Major depressive disorder	8	1724.80	1.68
Hypoglycaemia/hyperglycaemai in diabetes mellitis	9	3298.71	2.71	Diabetes mellitis type 2	9	1459.49	1.42
Inflammation	10	2482.39	2.04	Tuberculosis	10	1313.59	1.28
Total of top 10 ICD-10 codes		**91651.31**	**75**	**Total of top 10 ICD-10 codes**		**92691.17**	**90**
Total of all ICD-10 codes		**121711.95**	**100**	**Total of all ICD-10 codes**		**102965.16**	**100**

* Percentage was calculated for ICD-10 codes according to the total cost for inpatients and outpatients respectively

Appendix E: Therapeutic budget model for Thusong hospital

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Anti-infective	**50.88**	Antibacterial (Penicillin's)	**16.68**	Amoxycillin Caps 250mg 15s	**0.03**
				Amoxycillin Caps 500mg 15s	**0.24**
				Amoxycillin Susp 125mg/5ml 100ml	**0.07**
				Amoxycillin Susp 250mg/5ml 100ml	**0.01**
				Amoxycillin with Clavulanic acid Inj 1000mg/200mg 1.2g	**1.50**
				Amoxycillin with Clavulanic acid Susp 125mg/31.25mg 100ml	**0.10**
				Amoxycillin with Clavulanic acid Tabs 250mg/125mg 375mg 15s	**1.21**
				Ampicillin Inj 250mg	**0.46**
				Ampicillin Inj 500mg	**7.98**
				Benzathine Penicillin G Inj. 2.4Mu Vials	**0.08**
				Benzylpenicillin G Inj 1Mu 50s	**0.03**
				Ciprofloxacin Inj for IV Infus 2mg/ml 100ml	**0.87**
				Ciprofloxacin Tabs 500mg 10s	**0.04**
				Clindamycin Caps 150mg 100s	**0.02**
				Cloxacillin IV Inj 500mg	**0.66**
				Co-Trimoxazole for IV Infus 480mg 5ml	**0.02**
				Flucloxacillin Caps 250mg 20s	**0.37**
				Flucloxacillin Susp 125mg 100ml	**0.00**
				Fluconazole Caps 50mg 14s	**0.13**
				Fluconazole Caps 200mg 28s	**0.11**
				Fluconazole Inj for IV Infus 2mg/ml 100ml	**0.67**
				Gentamicin Inj 40mg/ml 1ml	**0.12**
				Gentamicin Inj 80mg/2ml 2ml	**0.96**
				Ketoconazole Tabs 200mg 30s	**0.75**
				Nalidixic Acid Susp 250mg/ml 100ml	**0.01**
				Nalidixic Acid Tabs 500mg 100s	**0.11**
				Nitrofurantoin Caps 100mg 50s	**0.04**
				Phenoxymethyl Penicillin Susp 250mg/5ml 100ml	**0.00**
				Phenoxymethyl Penicillin Tabs 250mg 20s	**0.02**

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Anti-infective	**50.88**	Antibacterial (Penicillin's)	**16.68**	Phenoxymethyl Penicillin Tabs 250mg 100s	**0.00**
				Nitrofurantoin Caps 100mg 30s	**0.06**
				Fluconazole Susp 50mg/5ml 35ml	**0.00**
		Anti-infective (Cephalosporin)	**7.21**	Cefazolin Inj 500mg	**1.96**
				Cefotaxime Inj 500mg	**0.02**
				Cefotaxime Inj 1g/15ml	**0.02**
				Ceftriaxone IM Inj 250mg	**4.24**
				Ceftriaxone Inj 1g	**0.97**
		Antibacterial (Chloramphenicol, Erythromycins	**2.41**	Co-trimoxazole Tabs 480mg 20s	**0.13**
				Co-trimoxazole Tabs 400mg 1000s	**0.00**
				Co-trimoxazole, Sul 400mg, Trim 80mg Tabs 56s	**0.51**
				Co-trimoxazole Susp 200/40mg/5ml 50ml	**0.12**
				Co-trimoxazole Susp 200/40mg/5ml 100ml	**0.03**
				Doxycycline Caps 100mg 14s	**0.76**
				Erythromycin Susp 125mg/5ml 100ml	**0.01**
				Erythromycin IV Inj 1g	**0.22**
				Erythromycin Tabs 250mg 20s	**0.28**
				Erythromycin Tabs 250mg 100s	**0.01**
				Erythromycin Tabs 250mg 56s	**0.00**
				Metronidazole IV Inj 500mg/ml 100ml	**0.16**
				Metronidazole Tabs 200mg 21s	**0.13**
				Metronidazole Tabs 200mg 60s	**0.02**
				Metronidazole Susp 200mg/5ml 50ml	**0.02**
				Metronidazole Susp 200mg/5ml 100ml	**0.00**
				Spectinomycin Inj 400mg/ml 2g 5ml	**0.01**
				Metronidazole Tabs 200mg 10s	**0.00**
		Antiviral	**24.48**	Acyclovir Cream 5% 2g	**0.01**
				Efavirenz Caps 50mg 30s	**2.57**
				Efavirenz Caps 200mg 90s	**1.11**
				Efavirenz Caps 600mg 30s	**12.32**
				Lamivudine Oral Sol 10mg/ml 240ml	**0.36**

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Anti-infective	**50.88**	Antiviral	**24.48**	Lamivudine Tabs 150mg 60s	**3.61**
				Lopinavir Syr 60ml	**0.85**
				Nevirapine Tabs 200mg 60s	**1.32**
				Stavudine Caps 15mg 60s	**0.02**
				Stavudine Caps 20mg 60s	**0.15**
				Stavudine D4t Caps 30mg 60s	**0.67**
				Stavudine D4t Caps 40mg 60s	**1.10**
				Stavudine D4t Sol 200ml	**0.28**
				Zidovudine Caps 300mg 60s	**0.10**
		Antifungal oral/injections	**0.05**	Amphotericin B Lozenges 10mg 20s	**0.00**
				Griseofulvin Tabs 125mg 100s	**0.01**
				Nystatin Oral Susp 100 000Iu 20ml	**0.04**
		Cancer chemotherapy	**0.05**	Methotrexate Tabs 2.5mg 100s	**0.05**
Cardiovascular agents	**9.73**	Anti-angina	**0.03**	Glyceryl Trinitrate SL Tabs 0.5mg 50s	**0.03**
		Antihypertensive	**6.44**	Amlodipine Besylate Tabs 5mg 30s	**0.03**
				Atenolol Tabs 50mg 28s	**0.04**
				Atenolol Tabs 100mg 28s	**0.01**
				Enalapril Tabs 5mg 28s	**1.65**
				Enalapril Tabs 10mg 28s	**0.08**
				Enalapril Tabs 20mg 28s	**0.03**
				Furosemide Tabs 40mg 28s	***1.01***
				Furosemide Tabs 40mg 56s	**0.03**
				Furosemide Tabs 40mg 84s	**0.00**
				Furosemide Tabs 40mg 250s	**0.00**
				Furosemide Inj 10mg/ml 2ml	**0.10**
				Furosemide Inj 10mg/ml 25ml	**0.02**
				Hydralazine Tabs 25mg 500s	**0.00**
				Hydrochlorothiazide Tabs 25mg 14s	**0.10**
				Hydrochlorothiazide Tabs 25mg 28s	**0.07**
				Indapamide Tabs 2.5mg 30s	**0.03**
				Mannitol Inj for IV use 20% 50ml	**0.09**

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Cardiovascular agents	**9.73**	Antihypertensive	**6.44**	Methyldopa Tabs 250mg 56s	**0.01**
				Nifedipine Caps 5mg 100s	**0.00**
				Nifedipine Tabs SR 30mg 28s	**0.48**
				Nifedipine Tabs SR 60mg 28s	**1.51**
				Perindopril Tabs 4mg 28s	**0.59**
				Prazosin Tabs 1mg 14s	**0.07**
				Prazosin Tabs 5mg 30s	**0.22**
				Propranolol Tabs 10mg 60s	**0.00**
				Propranolol Tabs 40mg 28s	**0.00**
				Spironolactone Tabs 25mg 240s	**0.24**
				Spironolactone Tabs 25mg 14s	**0.03**
		Congestive heart failure drugs	***0.05***	*Digoxin Tabs 0.25mg 14s*	***0.04***
				Digoxin Tabs 0.25mg 28s	**0.01**
		Antithrombotic and anticoagulant	**2.75**	Enoxaparin Prefilled Syr SC 40mg/0.4ml	**0.11**
				Balanced Heparin 1250Iu/ml	**1.23**
				Heparin IV Inj 1 000Iu/ml 5ml	**0.01**
				Heparin IV Inj 5 000Iu/ml 5ml	**0.10**
				Streptokinase Inj 1 500 000Iu	**0.00**
				Tranexamic Acid Inj 100mg/ml 5ml 5s	**0.84**
				Tranexamic Acid Tabs 500mg 60s	**0.23**
				Warfarin Sodium Tabs 5mg 14s	**0.14**
				Warfarin Sodium Tabs 5mg 28s	**0.07**
				Warfarin Sodium Tabs 5mg 42s	**0.01**
				Warfarin Sodium Tabs 5mg 49s	**0.01**
		Drugs affecting the blood	**0.44**	Ferrous Sulphate Co Tabs eq 65mg Fe 28s	**0.07**
				Ferrous Sulphate Co Tabs eq 65mg Fe 84s	**0.05**
				Ferrous Lactate Drops eq 25mg Fe/ml 10ml	**0.03**
				Ferrous Gluconate Syr eq 30mg Fe/5ml 100ml	**0.06**
				Folic Acid Tabs 5mg 28s	**0.06**
				Folic Acid Tabs 5mg 1000s	**0.11**
				Phytomenadione IM Inj 10mg/ml 1ml	**0.06**

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Cardiovascular agents	9.73	Drugs affecting the blood	0.44	Cholestyramine Power 4g 50s	0.01
		Hypolipidaemic agents	0.03	Simvastatin Tabs 10mg 28s	0.01
				Simvastatin Tabs 20mg 28s	0.01
Dermatological	1.18	Anti-fungal (topical)	0.32	Clotrimazole Cream 1% 20g	0.02
				Gentian Violet Sol 0.5% 20ml	0.00
				Malic Acid, Benz Acid & Salicyl Acid Cream 50g	0.01
				Miconazole Nitrate cream 2% 40g	0.02
				Miconazole Nitrate Oral Gel 2% 30g	0.18
				Mupirocin Topical Oint 2% 15g	0.03
				Nystatin Vaginal Cream 100 000Iu 60g	0.02
				Nystatin Vaginal Tabs 15s	0.02
				Selenium Sulphide Shampoo 2.5% 50ml	0.02
		Antiseptics, antivirals, keratoplastic & keratolytic agents	0.25	Cetrimide Chlorhexidine Gluconate Conc Sol 100ml	0.00
				Mercurochrome Sol 1% 20ml	0.00
				Podophyllum Resin 25g	0.04
				Podophyllum Resin Oint 10g	0.15
				Silver Sulphadiazine Cream 50g	0.00
				Silver Sulphadiazine Cream 500g	0.05
		Antipruritic & anti-inflammatory agents	0.1	Calamine Lotion 100ml	0.00
				Hydrocortisone Cream 1% 20g	0.02
				Indomethacin Caps 25mg 28s	0.03
				Indomethacin Supps 100mg 10s	0.04
				Sulfasalazine Tabs 500mg 100s	0.01
		Keratoplastic & Keratolytic agents	0.01	Benzoyl Peroxide Cream 5% 40g	0.01
		Scabicides & Pediculocides	0.01	Benzyl Benzoate Emuls 100ml	0.01
				Monosulfiram Soap 5% 75g	0.01
		Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	0.13	Aqueous Cream 100g	0.01
				Aqueous Cream 500g	0.00
				Emulsifying Oint 500g	0.00
				Lubricating Jelly Sachet 2.5ml	0.00
				Zinc & Castor Oil Oint 25g	0.00

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Dermatological	1.18	Ointments, creams, pastes, jellies, emollients, protectants, dressings and sprays	0.13	Zinc Sulphate Grade 500g	0.11
		Disinfectants, antiseptics, soaps, irrigation solutions and preservative fluids	0.02	Povidone Iodine Oint 25g	0.00
				Povidone Iodine Sol 1000ml	0.02
		Eye preparations (anti-infective)	0.16	Acyclovir Tabs 200mg 25s	0.11
				Chloramphenicol Eye Drops 0.5% 10ml	0.04
				Chloramphenicol Eye Oint 1% 3.5g	0.01
		Eye preparations (local anaesthetic)	0.03	Amethocaine Cream 1% 25g	0.03
		Eye preparations (anti-allergic & anti-inflammatory including corticosteroidis & decongestants)	0.03	Antazoline Tetrahydrozoline Eye Drops 10ml	0.03
		Ear and nose preparations	0.09	Acetic Acid Ear Drops 1% in normal saline 10ml	0.01
				Acetic Acid Ear Drops 2% in alcohol	0.00
				Neomycin Polymixin Hydrocortisone Ear Drops 10ml	0.01
				Oxymetazoline Nose Drops 0.025% 10ml	0.00
				Sodium Bicarbonate Powder 500g	0.00
				Sodium Chloride Nose Drops 0.9% 10ml	0.01
				Arachis oil, paradichlorbenzene chlorbut 10ml	0.05
		Corticosteroids for topical use	0.02	Betamethasone In Uea Cream 10% 500g	0.01
				Betamethasone Valerate Cream 0.1% 15g	0.01
Endocrine	4.91	Contraceptive (barrier methods)	0	Condoms	0.00
		Contraceptive (injectable)	0.1	Medroxyprogesterone Tabs 5mg 30s	0.10
		Contraceptive (oral)	0.03	Norgestrel Oestradiol Tabs 28s	0.03
		Hormones, androgens, oestrogens & progesterones	0.09	Oestrogens Conj Tabs 0.3mg 28s	0.01
				Oestrogens Conj Tabs 0.625mg 28s	0.06
				Oestrogens Conj Vaginal Cream 42.5g	0.02
		Anti-diabetic agents (injections)	1.23	Insulin Actraphane Hm 100Iu/ml 10ml	0.98
				Insulin Actraphane Hm 100Iu/ml 3ml Penset	0.16

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Endocrine	**4.91**	Anti-diabetic agents (injections)	**1.23**	Insulin Actrapid Hm 100Iu/ml 10ml	**0.00**
				Insulin Protaphane Hm 100Iu/ml 3ml Penset	**0.04**
				Insulin Needles 1s	**0.06**
		Antidiabetic agents (oral)	**0.41**	Gliclazide Tabs 80mg 56s	**0.10**
				Gliclazide Tabs 80mg 28s	**0.02**
				Metformin Tabs 850mg 56s	**0.10**
				Metformin Tabs 850mg 84s	**0.19**
		Antihypoglycaemic agents	**1.47**	Glucagon Inj 1mg 1ml	**1.47**
		Oxytoxins and other obstetric drugs	**0.02**	Oxytocin 5Iu/ml 5s	**0.00**
				Oxytocin Inj 10Iu 1ml 5s	**0.02**
		Thyriod and Parathyroid preparations	**0.02**	Thyroxine Sodium Tabs 50µg 100s	**0.00**
				Thyroxine Sodium Tabs 100µg 28s	**0.02**
		Corticosteroids for systemic use (oral/injections)	**1.55**	Dexamethasone IM Inj 4mg/ml 1ml	**0.08**
				Fludrocortisone Acetate Tabs 0.1mg 100s	**0.01**
				Hydrocortisone Sodium succ Inj 100mg/2ml 2ml 5s	**0.99**
				Methylprednisolone Inj 40mg/ml 1ml	**0.03**
				Methylprednisolone Inj 40mg/ml 2ml	**0.00**
				Prednisolone Syr 15mg/5ml 50ml	**0.07**
				Prednisone Tabs 5mg 28s	**0.23**
				Prednisone Tabs 5mg 100s	**0.13**
				Bethamethasone Inj 4mg/ml 1ml	**0.00**
Functional	**4.75**	Anti-epileptics	**2.91**	Carbamazepine Susp 100mg/5ml 250ml	**0.03**
				Carbamazepine CR Tabs 200mg 30s	**0.61**
				Carbamazepine CR Tabs 400mg 30s	**1.08**
				Clonazepam Inj 1mg/ml 1ml	**0.00**
				Lamotrigine Tabs 25mg 28s	**0.04**
				Lorazepam Inj 4mg/ml 1ml	**0.22**
				Lorazepam Tabs 1mg 100s	**0.01**
				Lorazepam Tabs 2.5mg 100s	**0.00**
				Phenobarbitone Tabs 30mg 28s	**0.01**
				Phenobarbitone Tabs 30mg 56s	**0.03**

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Functional	4.75	Anti-epileptics	2.91	Phenobarbitone Vit Nicot Syrup 100ml	0.05
				Phenytoin Caps 100mg 84s	0.27
				Phenytoin Inj 50mg/ml 5ml	0.20
				Sodium Valproate Liqiud Sugar Free 200mg 300ml	0.15
				Sodium Valproate Tabs 200mg 28s	0.08
				Sodium Valproate Tabs Cr 300mg 84s	0.04
				Valproic Acid Caps 150mg 56s	0.03
				Valproic Acid Caps 500mg 100s	0.04
				Lamotrigine Tabs 25mg 28s	0.02
		Antiparkinsonism	0.13	Bromocriptine Mesylate Tabs 2.5mg 30s	0.07
				Biperidin Inj 5mg/ml 5ml	0.01
				Carbidopa 25mg & Levodopa 250mg 100s	0.05
		Anti-allergics & Anaphylaxis	0	Adrenaline Tart.Inj Eq/adren.1mg/ml 1:1000ml	0.00
		Psychiatric disorders (Schizophrenia)	0.02	Fluphenazine Decanoate Inj 25mg/ml 1ml	0.01
				Zuclopenthixol Decanoate Oily Inj 200mg/ml 1ml	0.01
		Psychotic disorders	0.34	Chlorpromazine Inj 25mg/ml 1ml	0.00
				Chlorpromazine Tabs 50mg 500s	0.10
				Chlorpromazine Tabs 100mg 500s	0.01
				Haloperidol Inj 5mg/ml 1ml	0.19
				Haloperidol Tabs 5mg 14s	0.01
				Haloperidol Tabs 5mg 56s	0.01
				Chlorpromazine Tabs 25mg 28s	0.02
		Mood disorders	1.24	Amitriptyline Tabs 25mg 28s	1.19
				Fluoxetine Caps 20mg 28s	0.04
				Hydroxyzine Dihydrochloride IM Inj 50mg/ml 2ml	0.00
				Imipramine Tabs 25mg 28s	0.01
				Hydroxyzine Tabs 25mg 100s	0.00
		Hypnotics/sedatives	0.01	Diazepam Inj 5mg/ml 2ml	0.01
				Diazepam Tabs 5mg 500s	0.00
				Diazepam Tabs 5mg 10s	0.00

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Functional	4.75	Muscle relaxants (central & peripherally acting)	0.06	Naloxone Inj 0.4mg/ml 1ml	0.00
				Orphenadrine Tabs 50mg 28s	0.06
		Antimigraine agents	0.04	Ergotamine 2mg, Caffeine 100mg & Cyclizine 50mg Tabs 10s	0.04
Gastrolyte	3.51	Antihelmenthics	0.1	Albendazole Susp 100mg/5ml 20ml	0.05
				Albendazole Tabs 200mg 2s	0.06
		Antacids/anti-ulcers	1.14	Aluminium Hydroxide Susp 350ml	0.83
				Cimetidine IV Inj 100mg/ml 2ml	0.08
				Cimetidine Tabs 200mg 30s	0.01
				Cimetidine Tabs 400mg 60s	0.06
				Magnesium Trisillicate Co Mixt 200ml	0.00
				Misoprostol Tabs 0.2mg 60s	0.10
				Ranitidine HCl Tabs 300mg 30s	0.01
				Ranitidine Inj 25mg/ml 2ml	0.01
				Omeprazole Caps 20mg 30s	0.05
		Anti-emetic	0.24	Cinnarizine Tabs 25mg 100s	0.00
				Metroclopramide Inj 5mg/ml 2ml	0.19
				Metoclopramide Syr 5mg/5ml 50ml	0.00
				Metoclopramide Tabs 10mg 15s	0.01
				Prochlorperazine Inj 12.5mg/ml 1ml	0.01
				Metoclopramide Tabs 10mg 10s	0.03
		Antihaemmorrhoidal	0.08	Bismuth Sub Oxi Res Nic Zinc Oint 25g	0.01
				Bismuth Sub Oxi Res Nic Ainc Supps 10s	0.07
		Cathartic drugs/laxatives	0.07	Bisacodyl Supps 10mg 10s	0.01
				Glycerine Supps Adult 12s	0.01
				Lactulose Syr 3.35mg/5ml 150ml	0.04
				Magnesium Sulphate Crystals 500g	0.01
				Senna Tabs 1000s	0.00
				Senna Tabs 7.5mg 12s	0.00
				Sodium Phosphate Enema Sol 135ml	0.00
		Antidiarrhoea & ulcerative colitis	0.14	Half Darrows & Glucose 5% Sol 200ml	0.09

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Gastrolyte	**3.51**	Antidiarrhoea & ulcerative colitis	**0.14**	Half Darrows & Glucose 5% Sol 500ml	**0.04**
				Loperamide Tabs 2mg 6s	**0.01**
				Sodium Chlorite Potassium Sodium Citrate Powder 26g 50s	**0.00**
		Antispasmodics & anticholinergics	**0.06**	Hyoscine-N-Butylbromide Inj 20mg/ml 1ml	**0.02**
				Hyoscine-N-Butylbromide Syr 100ml	**0.02**
				Hyoscine-N-Butylbromide Tabs 10mg 10s	**0.02**
				Hyoscine-N-Butylbromide Inj 50mg/ml	**0.00**
				Hyoscine-N-Butylbromide Tabs 10mg 15s	**0.00**
		Constipation, digestants, liver & bile preparations	**0.04**	Liquid Paraffin 200ml	**0.02**
				Sodium Sulphate, Sodium Biccarbonate, Sodium Chloride, Pottassium Chloride powder 59g	**0.02**
		Mouthwash & throat preparations	**0.02**	Thymol Glycerine B.P. Mouth wash 100ml	**0.02**
		Electrolyte and acid base disturbances (parenteral)	**0.54**	Calcium Folinate Tabs 15mg	**0.00**
				Electrolyte no 2 Sol 1000ml	**0.02**
				Ringers Lactate 2000ml	**0.00**
				Ringers Lactate Sol 200ml	**0.00**
				Ringers Lactate Sol 1000ml	**0.36**
				Sodium Chloride 0.9% for Irrigation 1000ml	**0.00**
				Sodium Chloride 0.2% & Glucose 5% Inj 200ml	**0.01**
				Sodium Chloride 0.9% Inj 1000ml	**0.10**
				Sodium Chloride 0.9% Inj 50ml	**0.00**
				Sodium Chloride 0.9% Inj 200ml	**0.03**
				Water for Inj 10ml	**0.00**
		Vitamins & Minerals	**0.96**	Calciferol Tabs 50 000Iu 100s	**0.00**
				Calcitriol Caps 0.25mg 30s	**0.00**
				Calsium Carbonate & Glycine Tabs 420mg 300s	**0.00**
				Calcium Gluconate Tabs 300mg 28s	**0.00**
				Magnesium Chloride Tabs 500-700mg 100s	**0.01**
				Potassium Chloride Syr 300mg/5ml 100ml	**0.02**
				Potassium Chloride Inj 15% 10ml	**0.01**

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Gastrolyte	**3.51**	Vitamins & Minerals	**0.96**	Potassium Chloride Slow Tabs 600mg 14s	**0.07**
				Potassium Citrate Mixture 100ml	**0.03**
				Thiamine IV Inj Vit B1 100mg/ml 10ml	**0.00**
				Thiamine Tabs 100mg 28s	**0.01**
				Vitamin A Caps 100 000Iu 250s	**0.00**
				Vitamin A Tabs 50 000Iu 200s	**0.00**
				Vitamin A, D, E, Folic acid, Riboflavin Tabs for Adults 30s	**0.36**
				Vitamin A, D, E, Ascorbic Acid Tabs for Kids 30s	**0.01**
				Vitamin B Co Inj 10ml (IM)	**0.01**
				Vitamin B Co Strong Tabs 28s	**0.05**
				Vitamin B Co Strong Tabs 1000s	**0.00**
				Vitamin B Co Syr 100ml	**0.00**
				Vitamin B6 Tabs 25mg 28s	**0.11**
				Vitamin C Tabs 100mg 28s	**0.01**
				Vitamin C Tabs 250mg 100s	**0.04**
				Vitamin E Tabs 100mg 50s	**0.00**
				Vitamin Multiple Oral drops 25ml	**0.01**
				Vitamin Multiple Syr 100ml	**0.09**
				Vitamin Multiple Tabs 28s	**0.11**
		Feeding and nutritional supplements (oral)	**0.01**	Bettaway Children's Own Tabs 60s	**0.00**
				Vi-Daylin Syrup with Minerals 150ml	**0.01**
		Feeding and nutritional supplements (parenteral)	**0.04**	Dextrose Sol for IV Infus 5% 50ml	**0.01**
				Dextrose Sol for IV Infus 5% 1000ml	**0.02**
				Dextrose Sol for IV Infus 10% 1000ml	**0.00**
				Dextrose Sol for IV Infus 50% 500ml	**0.01**
				Dextrose in Water Inj 50% 20ml	**0.00**
		Other gastrolyte	**0.08**	Sodium Alginate in a Hydro-active base 50g	**0.08**
Pain reliever	**20.9**	*Anaesthetics (local)*	**0.09**	Lignocaine Gel 2% 20g	**0.09**
		Analgesics, non opoids including NSAIMs, gold & anti-gout preparations	**20.52**	Allopurinol Tabs 300mg 30s	**0.01**
				Aspirin Soluble Tabs 300mg 14s	**0.10**
				Colchicine Tabs 1mg 60s	**0.05**

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Pain reliever	20.9	Analgesics, non opoids including NSAIMs, gold & anti-gout preparations	20.52	Diclofenac Inj 25mg/ml 3ml	16.83
				Diclofenac Tabs 25mg 42s	0.23
				Ibuprofen Susp 100mg/5ml 100ml	0.05
				Ibuprofen Tabs 200mg 15s	0.39
				Methyl Salicylate In Vaseline Oint 10% 25g	0.03
				Paracetamol Codeine Phos Tabs 500mg/8mg 20s	2.01
				Paracetamol Syr 120mg/5ml 50ml	0.13
				Paracetamol Syr 120mg/5ml 100ml	0.06
				Paracetamol Tabs 500mg 10s	0.43
				Propoxyphene HCl 65mg & Paracetamol 250mg Caps 20s	0.14
				Tilidine Oral Drops 100mg/1ml 10ml	0.01
				Ibuprofen Tabs 200mg 30s	0.00
				Diclofenac Tabs 25mg 28s	0.06
		Analgesics (opoids)/narcotic analgesics	0.3	Codeine Phosphate Tabs 30mg 100s	0.12
				Morphine Sulphate IV Inj 15mg 1ml	0.00
				Morphine Sulphate Tabs 30mg 60s	0.00
				Pethidine IM Inj 50mg/ml 1ml 10s	0.04
				Pethidine IM Inj 100mg/2ml 1ml 10s	0.14
		Antimalaria	0	Chloroquine Tabs 150mg 100s	0.00
Immunilogical	0.9	Sera & immunologicals	0.14	Vaccine Immunoglobulin Human Anti-Rabies 150Iu	0.14
		Vaccines	0.75	Vaccine Rabies 2.5Iu/dose Single dose	0.72
				Vaccine Tetanus Adosrbed 10 dose 10ml	0.03
Respiratory agents	3.24	Anti-asthmatic & mucolytic	1.23	Beclomethasone MDI 100mg 200 dose	0.25
				Beclomethasone nasal Spray Aqueous 50mg	0.01
				Budesonide MDI 200mg 300 dose	0.04
				Fenoterol Inhaler Complete 100	0.00
				Fenoterol UDV 0.5mg/2ml 60s	0.12
				Ipratropium UDV 0.25mg/2ml 2ml 60s	0.00
				Ipratroprium 0.5mg Salbutamol 2.5mg UDV 2.5ml 60s	0.00
				Salbutamol MDI Complete 100mg 200 dose	0.29
				Salbutamol Syr 2mg/5ml 150ml	0.04

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***
Respiratory agents	3.24	Anti-asthmatic & mucolytic	1.23	Salbutamol Tabs 2mg 28s	0.00
				Salbutamol UDV Inh Sol 2.5mg/2.5ml 30s	0.13
				Salmeterol Accuhaler 0.05mg 60 Dose	0.01
				Theophylline Syr 200ml	0.21
				Theophylline Syr 25mg/5ml 500ml	0.00
				Theophylline Anhydrous Tabs 200mg 60s	0.91
				Theophylline Anhydrous Tabs 250mg 56s	0.02
		Cough mixtures	0.07	Mist Expectorant Stim Syr Adult 200ml	0.04
				Mist Tussi Infants Mist 100ml	0.03
		Antituberculosis	1.83	Ethionamide Tabs 250mg 250s	0.01
				Pyrazinamide Tabs 500mg 28s	0.01
				Rifampicin Caps 150mg 100s	0.13
				Rifampicin 60mg, Isoniazid 30mg & Pyrazinamide 150mg Tabs 80s	0.29
				Rifampicin 150mg, Isoniazid 75mg Tabs 60s	1.26
				Rifampicin 150mg, Isoniazid 75mg, Pyrazinamide 400mg & Ethambutol 275mg 100s	0.04
				Rifampicin 150mg Pyrazinamide 400mg, Isoniazid 75mg & Ethambutol 275mg Tabs 100s	0.06
				Rifampicin 300mg & Isoniazid 150mg Tabs 40s	0.03
				Streptomycin Inj 1g/3ml	0.01
				Streptomycin Sulphate Inj 5g/15ml	0.00
		Decongestants (cold/flu)	0.01	Pseudoephedrine Sulphate Syr 30mg/5ml 50ml	0.01
				Pseudoephedrine Tabs 60mg 20s	0.01
		Antihistamines for systemic use	0.1	Chlorpheniramine Mal Tabs 4mg 30s	0.08
				Promethazine Inj 25mg/ml 1ml	0.00
				Promethazine Inj 25mg/ml 2ml	0.00
				Promethazine Tabs 25mg 500s	0.01
				Chlorpheniramine Mal Syr 2mg/5ml 50ml	0.01

* Percentage was calculated using the total cost of all budget groups for inpatients and outpatients combined which add up to 100%

** Percentage was calculated using the total cost of all pharmacological groups for inpatients and outpatients combined which add up to 100%

Budget groups	%*	Pharmacological groups	%**	Therapeutic codes	%***

***Percentage was calculated using the total cost of all therapeutic codes for inpatients and outpatients combined which add up to 100%

Medicine usage control in a district hospital in South Africa: A therapeutic budget model approach

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BACKGROUND

In South Africa budgets for drug supply management in the public health care sector are allocated without proper statistical data or guidance and is done on the basis of historic allocations (Blok *et al*; 2002:32). This has caused scenarios where funds are exhausted prematurely, causing a deficit, thus hindering delivery of effective and efficient health care.

AIM

The aim of the study was to develop a therapeutic medicine budget model for planning and to control medicine usage at a district hospital, in the North-West Province of South Africa, based on demand-procurement-expenditure data.

METHODOLOGY

Retrospective drug utilisation study was done on medicine prescription data from 1494 patients (both inpatients and outpatients) for the study period 1 January till 30 June 2007 (6 months) from a district hospital in South Africa. All medicine items prescribed were classified in the therapeutic budget model according to different budget groups, pharmacological groups, individual medicine items and ICD-10 classifications.

For this presentation the results are limited to the three top products, and only important results from the outpatient and inpatient categories are mentioned.

RESULTS

The average cost per medicine item was R18.78 ± 54.53 (where total cost of items were R103 750.97 [n=5522]) for outpatients. The average medicine cost per consultation was R70.64 ± 178.06 (where total medicine cost of consultations were R120 938.83 [n=1712]) for inpatients.

The top 3 individual medicine items (active ingredient) according to usage for outpatients were Paracetamol® tablets 500mg 10's [n=586], Ibuprofen® tablets 200mg 15's [n=357] and Multivitamin® tablets 28's [n=256].

The top 3 most expensive medicine items as a percentage of total cost for inpatients were Diclofenac® injection 25mg/ml 3ml (21.48%), Ampicillin® injection 500mg (14.79%) and Ceftriaxone® IM injection 250mg (7.74%).

The top 3 diseases, based on usage, in the outpatients were Pain control [n=1394], HIV disease [n=686] and Vitamin deficiency [n=608].

The most expensive diseases, according to average medicine cost per disease for inpatients were Diabetes Mellitus (659.74 ± 882.03 [n=5]), Septicemia, (121.63 ± 218.06 [n=5]) and Pneumonia, (40.01 ± 70.61 [n=85]).

CONCLUSION

According to the above results for usage and costs, therapeutic budgeting can be an important instrument in the process of managing disease cost at different levels to achieve better resource management in the public health care setting.

Appendix F.2: Abstract of podium presentation at 7th Pharmaceutical Sciences – North-West Department of Health Pharmacy managers' conference at Omuramba, Rustenburg, South Africa from September 10th 2008 to September 12th 2008

Medicine cost and usage control in a district hospital in North-West Province: A therapeutic budget model approach

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BACKGROUND

According to the National Drug Policy one of the health objectives is to ensure the availability and accessibility of essential drugs to all citizens. An economic objective of the same policy is to promote the cost-effective and rational use of drugs.

OBJECTIVE

The general objective of this study was to develop and implement a therapeutic medicine budget model in a district hospital in the public sector of the North-West Province to control medicine usage.

METHODOLOGY

Retrospective drug utilisation of six months were documented (January 2007 until June 2007). The total patient visits during this time was 6 243. Based on scientific methods, a sample of 25% was selected [n = 1494] and formed the sample population for the study. After the data collecting period of 9 weeks, only 18.67% of the study population were included based on the inclusion criteria of the study. All the medicine items were classified in the therapeutic budget model according to different budget groups, pharmacological groups and individual therapeutic codes. Diseases were classified according to the ICD-10 code classification system. Patient confidentially was assured by using a unique pin number on the survey form, so that no names of patients or other biographical details are collected from the patient files on to the survey form which was in line with the ethical application conditions of the North-West University. The data obtained in the survey forms were captured in Excel® worksheets and the data were analysed by the SAS® program.

RESULTS AND DISCUSSION

The total number of medicine items dispensed during the study period was 11 768 (6 288 for inpatients and 5 480 for outpatients). The average cost per medicine item was R19.36 ± 86.79 for inpatients. The total number of consultations were 3 220 (1720 for inpatients and 1500 for outpatients). The average number of medicine items per consultation was 3.66 ± 1.98. The total cost of medicine items during the study period was R244 677.11 (R121 711.95 for inpatients and R102 965.16 for outpatients). The average medicine cost per consultation for inpatients was R70.80 ± 177.72.

The top three budget groups according to frequency were anti-infective drugs [n = 3 094], pain reliever drugs [n = 2 670] and gastrolyte drugs [n = 2 251] and they represent 68.11% of all medicines used according to budget groups. The top three pharmacological groups according to total cost were antivirals [n = R55 001.81], analgesics (non-opioids including NSAIMS) gold and anti-gout preparations [n = R46 092.52] and anti-bacterials (penicillins) [n = R37 482.28] and they represent 61.68% of the total cost of pharmacological groups. The top three therapeutic codes according to frequency were Paracetamol® 500 mg tablets (10s) [n = 1 063], Ibuprofen® 200 mg tablets (15s) [n = 600] and Multivitamin® tablets (28s) [n = 544] and they represent 18.75% of all therapeutic codes. The top three ICD-10 codes based on total cost were unspecified HIV [n = R56 366.40], pain control [n = R46 612.57]

and undefined bacterial infection [n = R30 350.48] and they represent 59.35% of all medical conditions diagnosed.

In the Budget Allocation Survey form, the total hospital budget for 2007 was predicted at R3 276 750.00. Of this budget, 75% was for pharmaceuticals (R2 457 562.50).

The total pharmaceutical medicine cost (excluding surgicals) from the study was R224 677.11 (this was for 18.67% of the total patient visits for six months) which can be calculated at R1 203 412.48 for all patient visits during six months.

The therapeutic budget model projected the budget needed for the hospitals for pharmaceuticals to be R2 406 824.96, based on actual medicine usage data for just the hospital only.

The correlation between the actual budget and the projected budget showed a R50 737.54 surplus in the budget of the hospital.

RECOMMENDATION

The scope of a therapeutic budget model to be implemented in the hospitals in the public sector of the North-West Province, seems to be promising due to the following:

- Evaluation of budgetary compliance, cost efficiency of therapy and Standard Treatment Guideline (STG) / Essential Drug List (EDL) / formulary compliance.
- Better procurement strategies based on demand, expenditure and inventory control.

Appendix F.3: Abstract of podium presentation (contender for Adcock Ingram Young Scientist of the year award) at the 29th annual conference of the academy of pharmaceutical sciences of South Africa at Hunter's Rest, Rustenburg, South Africa form September 23rd 2008 to September 26th 2008

Medicine cost and usage control in a district hospital in North-West Province: A therapeutic budget model approach

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