

A decision model to support theatre allocation for non-elective patients in a private hospital

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Dedications

To my son Frans, may you find your journey of education and knowledge to be inspiring and fulfilling.

In concluding, I dedicate this study in memory of my grandmother Jean Middel, the inspiration behind my study

Abstract

The unforeseen arrival of patients in need of non-elective surgeries may cause a thoroughly planned operating theatre schedule to change with each arrival. This may have an influence on efficiency, utilization and waiting time between surgeries. The purpose of the study is to offer a solution to this problem by determining which allocation policy for patients in need of non-elective surgery will be best suited for this private hospital. The policy should ensure a balance between scheduling patients for elective surgery and responding to the arrival of patients in need of non-elective surgery, and should contribute towards the utilization of the operating theatres. Operating theatre planning can be a very complex process because many stakeholders are involved and due to the influence of variability on the output of performance measures, such as financial indicators, waiting times, throughput and utilization

In order to solve this problem, the objectives of the study are as follows: firstly to investigate the current allocation policy for patients in need of non-elective surgery used in this private hospital and secondly to explore and extract the standards, rules and regulations that should be taken into consideration when designing a theatre schedule. Finally the study wants to propose an allocation policy for patients in need of non-elective surgery to ensure the highest scheduling efficiency, the best resource utilization and minimized waiting time between surgeries.

The use of simulation in healthcare is becoming a very popular trend. Simulation models can be valuable when it comes to the observation of the performance measures of different systems and sub-systems within healthcare. It can also be beneficial as a decision support tool and a planning tool. A simulation model was developed based on the flexibility policy currently used by the hospital to determine the utilization of the operating theatres. After the model was verified, it was used as decision model to evaluate different policies, such as the dedicated and hybrid policy. Various scenarios were tested for their effect on the key performance indicators. This enabled the researcher to determine which theatre allocation policy for arriving patients in need of non-elective surgery would be best suited to this hospital.

The cumulative utilization of the flexibility policy is compared to the dedicated policy and the hybrid policy for the month of July (2 July – 31 July). Based on the results, it is recommended that the hospital consider implementing the hybrid policy as it will help to ensure a balance between scheduling elective patients and responding to the arrival of non-elective patients, and will contribute to the utilization of the operating theatres.

Keywords: Operating theatre, Simulation modelling, Healthcare, Industrial engineering

Opsomming

Die onvoorspelbaarheid van die aankoms van pasiënte wat onbeplande sjirurgie nodig by 'n hospitaal kan veroorsaak dat 'n deeglik beplande teaterskedule voortdurend verander. Dit kan 'n invloed hê op doeltreffendheid, teaterbenutting en wagtyd tussen operasies. Om hierdie probleem op te los, het die studie ten doel om vas te stel watter toewysingsbeleid vir pasiënte wat onbeplande sjirurgie nodig die beste sal wees vir hierdie privaathospitaal om 'n balans te kry tussen die skedulering van pasiënte vir beplande sjirurgie en toepaslike reaksie op die aankoms van pasiënte wat onbeplande sjirurgie nodig om sodoende positief by te dra tot die gebruik van die operasieteaters. Operasieteaterbeplanning kan 'n baie komplekse proses wees omdat daar soveel belanghebbendes betrokke is en omdat die sukses daarvan die uitkoms op prestasiemaatreëls soos finansiële aanwysers, wagtye, deurset en benutting beïnvloed.

Die doelwitte vir die projek was eerstens om die hospitaal se huidige toewysingsbeleid vir pasiënte wat onbeplande sjirurgie nodig te ondersoek om te bepaal of die gebruik daarvan voldoende is. Die tweede doelwit was om die standarde te ondersoek en te onttrek en om die reëls en regulasies wat in ag geneem moet word by die ontwerp van 'n teaterskedule en uiteindelik 'n toewysingsbeleid vir pasiënte wat onbeplande sjirurgie nodig, te identifiseer. Die toewysingsbeleid moet die hoogste skeduleringsdoeltreffendheid, hulpbronbenutting en verminderde wagtyd tussen operasies verseker.

Die gebruik van simulاسie in gesondheidsorg het 'n baie gewilde tendens geword. Simulasiemodelle kan waardevol wees as dit kom by die waarneming van die prestasie-aanwysers van verskillende stelsels en substelsels binne gesondheidsorg. Dit kan ook voordelig wees as 'n besluitnemingshulpmiddel en 'n beplanningsinstrument. 'n Simulasiemodel is ontwikkel op grond van die buigsame beleid wat tans deur die hospitaal gebruik word om die benutting van die operasieteaters te bestuur. Nadat die model geverifieer is, is dit gebruik as besluitnemingsmodel om verskillende beleide te evalueer, byvoorbeeld die toegewydebeleid en die beleid wat 'n kombinasie van die toegewyde en buigsame beleide is. Verskeie scenario's is getoets om te sien wat die beleid se uitwerking op die sleutelprestasie-aanwysers is. Dit het ons in staat gestel om te bepaal watter teatertoewysingsbeleid vir pasiënte wat onbeplande sjirurgie nodig die beste sal wees vir hierdie hospitaal.

Die kumulatiewe benutting van die buigsame beleid word vergelyk met die toegewyde beleid en die beleid wat 'n kombinasie van die twee is vir die maand van Julie (2 Julie tot 31 Julie). Op grond van die resultate beveel die studie aan dat die hospitaal moet oorweeg om die beleid wat 'n kombinasie van die twee is te implementeer omdat dit sal help om 'n goeie balans tussen die skedulering van pasiënte vir beplande sjirurgie en reaksie op die aankoms van pasiënte wat onbeplande sjirurgie nodig sal verseker, en positief sal bydra tot die gebruik van die operasieteaters.

Sleutelwoorde: Operasieteater, Simulasiemodellering, Gesondheidsorg, Bedryfsingenieurswese

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Chapter 1: Research Overview

1.1. Introduction and Background

It is clear from literature that extensive research has been done over the last decade on information technology within healthcare, leading to the improvement of systems and making data capturing much more cost effective and accessible. As such, the benchmarking of health performance standards among countries has become a popular trend (Papanicolas & Smith, 2013).

It can be argued that improving healthcare systems will benefit the level of medical care provided to patients. However, the implementation of these improvements may in some cases be costly and time-consuming. How can the effect of innovation and change on healthcare systems be predicted? Holleman *et al.* (2009:1256) asserts that the “implementation of innovation is a complex and intensive procedure in which different strategies can be successful”. The implementation can be done by implementing new ideas such as adding resources and making observations on how this influences the utilization. This could also include making changes to schedules and analysing the effect of the changes on various components of the system. This can be seen as a continuous improvement approach and it is important to know that in real life, improving processes with this approach can become expensive.

One way of predicting the effect of information technology innovations on a healthcare system is with the use of simulation. The use of simulation in healthcare is becoming a very popular trend. Simulation models can be beneficial in several ways. They can be valuable when it comes to the observation of the performance measures of different systems and sub-systems within healthcare, it can also be beneficial as a decision support tool and a planning tool (Everett, 2002).

One of the systems in the South African healthcare environment that could benefit from improvement through innovation is operating theatre scheduling. Hospitals usually manage the use of operating theatres by making use of one of the following types of scheduling: open scheduling, block scheduling and modified block scheduling (Sufahani *et al.*, 2012a). Using simulation as a technique to help with forecasting and analysis of various scenarios could be much more cost effective than experimenting with various scenarios in real life. When a theatre schedule is designed, it is important to look at the balance between scheduling elective surgeries and responding to the arrival of patients who are in need of non-elective surgeries (from here “onwards non-elective patients”). Elective surgery schedules are designed to ensure:

- ❖ high surgery efficiency rates;
- ❖ good utilization of resources used for surgeries; and
- ❖ the minimum waiting time between elective surgeries.

1.2. Research Questions

The above-mentioned problem statement raises a number of research questions that are addressed in this study. The research questions are as follows:

1. What is the current non-elective patient allocation policy of the hospital?
2. What standards, rules and regulations should be taken into consideration when designing a theatre schedule?
3. Which non-elective patient allocation policy will ensure the highest scheduling efficiency, resource utilization and minimized waiting time between surgeries?

1.3. Research Aims and Objectives

1.3.1. Research Aim

The aim of this study is to determine which non-elective patient allocation policy will be best suited for this private hospital to ensure a balance between scheduling elective patients and responding to the arrival of non-elective patients to contribute to the utilization of the operating theatres.

1.3.2. Research Objective

In order to achieve the above-mentioned, aim the following research objectives have to be addressed in this study:

Objective 1: Investigate the current non-elective patient allocation policy used in this private hospital.

Objective 2: Explore and extract the standards, rules and regulations that should be taken into consideration when designing a theatre schedule.

Objective 3: Select a non-elective patient allocation policy to ensure the highest scheduling efficiency, resource utilization and minimized waiting times between surgeries.

1.3.3. Deliverable

The deliverable of this research is a model to support non-elective patient policy decisions in an operating theatre.

1.4. Research Design and Method

The purpose of the research design is to provide information on what methods was used during this study. In order to reach the objectives of this study, the following actions were undertaken:

❖ A relevant literature review was be done to understand:

- The standard theatre scheduling techniques used
- The standards, rules and regulations that should be taken into consideration when designing a theatres schedule
- The different non-elective patient allocation policies to determine which policy would be most suited to the theatre schedule

- ❖ There was an investigation of the processes and an analysis of data on the current theatre scheduling methods used in the private hospital to construct a decision support tool. The following had to be done during the investigation and analysis:
 - The researcher gained access to existing data collected by hospital management.
 - Detailed processes of the operating theatres were captured.
- ❖ A decision support tool to accurately depict the current non-elective patient allocation policy used was developed.
 - The model had to be verified to determine if this model accurately depicts the current non-elective patient allocation policy used.
- ❖ The model had to be adapted to determine which non-elective patient allocation policy should be used.

1.5. Problem Statement

The unpredictability of non-elective patient arrivals causes a thoroughly planned theatre schedule to change with each arrival of a non-elective patient. This may have an influence on efficiency rates, theatre utilization and waiting times between surgeries.

1.6. Contribution of the Study

1.6.1. Individuals

This study makes a contribution that will benefit patients by reducing both direct and indirect waiting times and minimizing unforeseen scheduling errors.

1.6.2. Literature

This study contributes to the literature of theatre scheduling in a South African context. It is also part of a broader effort to improve healthcare systems and to increase research outputs of this domain.

1.6.3. Organization

Continuously improving the systems used in healthcare can be beneficial to the level of care provided to the patients. The implementations of these improvements are not always successful, and this can be a costly exercise. This model could help the hospital to analyse and predict the effect of changes and improvements made to theatre scheduling. It can also contribute by saving resources and reducing costs.

1.7. Ethical Considerations

1.7.1. Ethics in Healthcare

In healthcare, practitioners and administrators often have to make decisions on matters of ethics while providing the best medical care to each individual. The rules and regulations of ethics in healthcare guides healthcare providers in decision making processes. Ethics guidelines also help healthcare providers to think about what actions they should and should not take in various situations (Pera S A & Van Tonder S, 2011:53).

Healthcare Providers and Practitioners: According to the Health Professions Council of South Africa (Anon, 2008b), healthcare providers and practitioners should practice medicine in accordance with the ethics values and standards explained in **Table 1** below:

Table 1: Core Ethics Values and Standards for Healthcare Providers and Practitioners (Anon, 2008b)

Ethics Value	Explanation
<i>Respect for persons:</i>	Patients should be treated and respected as people who has worth, dignity and sense of value.
<i>Best interest of well-being (Non-maleficence):</i>	Healthcare providers and practitioners should not act in any way that could harm the patients, even when their actions are conflicting with their own personal interest.
<i>Best interest of well-being (Beneficence):</i>	Healthcare providers and practitioners should always act in the best possible interest of the patient.
<i>Human rights:</i>	Patients have human rights and healthcare providers and healthcare practitioners should keep this in mind when decisions are made.
<i>Autonomy:</i>	Patients have the right to make own decisions based on their culture, beliefs, values and preference. Healthcare providers and practitioners should inform patients of the possibilities available, but should respect the fact that patients have the right to make their own choices, whether it is to accept or reject the possibilities given.
<i>Integrity:</i>	Healthcare providers and practitioners should act with integrity by keeping in mind all the core ethics values when practising medicine.
<i>Truthfulness:</i>	Healthcare providers and practitioners should make truthfulness the foundation of their relationship with their patients.
<i>Confidentiality:</i>	All patient information should be kept confidential by healthcare providers and practitioners according to the rules and regulations about doctor-patient confidentiality.

Compassion:	To enable healthcare providers and practitioners to provide an environment of support and comfort, they should act sensitively towards patients and their needs.
Tolerance:	Healthcare providers and practitioners should respect the fact that patients have different beliefs on ethics.
Justice:	All patients should be treated equally by healthcare providers and healthcare practitioners.
Professional competence and self-improvement:	Healthcare practitioners should stay competent, and in order for them to stay competent, they should continuously seek new knowledge and skills.
Community:	Healthcare providers and practitioners should strive to give something back to their community by contributing to the well-being of the community.

1.7.2. Ethics in Health Research

Section 1.7.1 explained the ethics values and standards for healthcare providers and practitioners. When doing research in healthcare, some of the same core ethics values and standards should be upheld (Anon, 2008a). The ethics values and standards applicable to healthcare researchers are explained in the **Table 2** below:

Table 2: Core Ethics Values and Standards for Healthcare Researchers (Anon, 2008b)

Ethics Value	Explanation
Best interest of well-being: Non-maleficence:	Non-maleficence is about not acting in any way that could harm the patients, even when their actions are conflicting to their own personal interest. In research one should minimize any risk of harming patients.
Best interest of well-being: Beneficence:	When research is conducted, the benefits of the research should outweigh any possible risks involved.
Autonomy:	Autonomy is about patients having the right to make their own decisions based on their culture, beliefs, values and preference. Healthcare research should not harm this right in any way.
Confidentiality:	Patients have the right that their information should be kept confidential. When healthcare research is conducted, this is important. The researcher should ensure that all patient information collected is kept safe or destroyed after research is conducted.
Justice:	Justice is about treating all patients equally. Healthcare researchers are obligated to justify the choice of research. The inclusion and exclusion of research participants should be done based on fair and ethical principles.

1.7.3. Permission and Informed Consent

The researcher got the necessary permission to conduct this study at a private hospital. A research proposal was submitted for approval by hospital management before commencement of the research as part of the process of gaining permission.

1.7.4. Anonymity and Confidentiality

During the data collection phase of this project, the focus was on historical data captured on process and procedure times, etc. For the sake of ethics, the researcher preferred historic data where patients' personal data had already been removed. The personal data have no bearing on the study, therefore no patient information is disclosed in this study report. Data were collected with the assistance of hospital management and the head of the department (HOD). This study does not include any patient interaction. The researcher ensured the hospital that they would adhere to their policy of confidentiality for the duration of this project and signed their confidentiality agreement. Due to the confidentiality agreement with the hospital, the name of the hospital where the study was performed is not disclosed in this mini-thesis, and the data collected were only used for the purpose of this study and for no other reasons. The results obtained during this study will become the property of the hospital.

1.8. Visual Summary of Mini-Dissertation

Figure 1 below is a visual representation of the mini-dissertation. This presentation is used throughout the study to show the interconnectedness of the research.

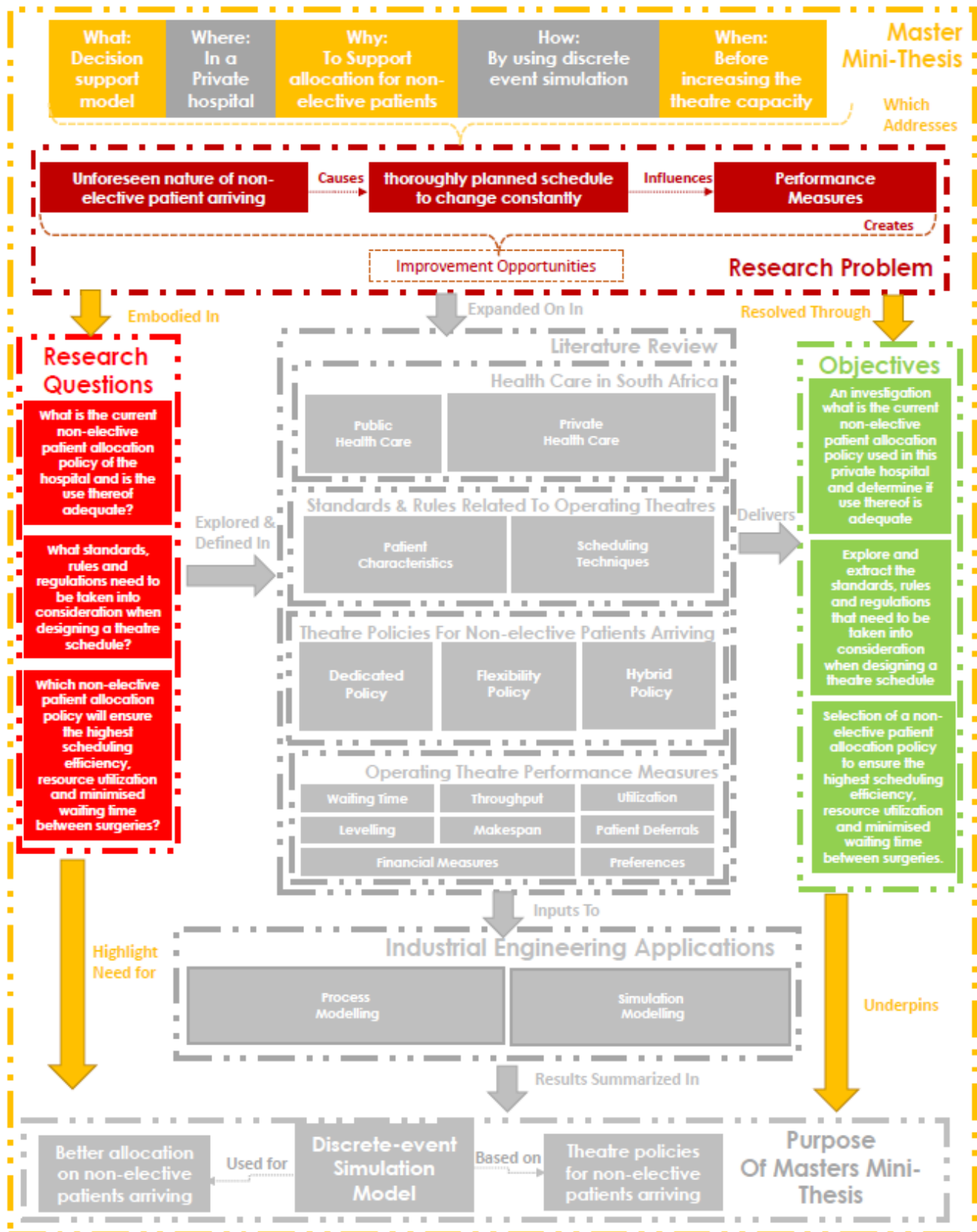


Figure 1: Visualized research framework – Chapter 1

Chapter 2: Literature Review

2.1. Introduction

This chapter provides the reader with a general overview of the research topics pertaining to this mini-thesis. These research topics include both the public and private healthcare sectors in South Africa to create an understanding of the healthcare sector. It also provides more in-depth information on the standards and rules related to operating theatres, theatre policies for the arrival of non-elective patients, operating room performance measures and the tools and techniques for theatre scheduling.

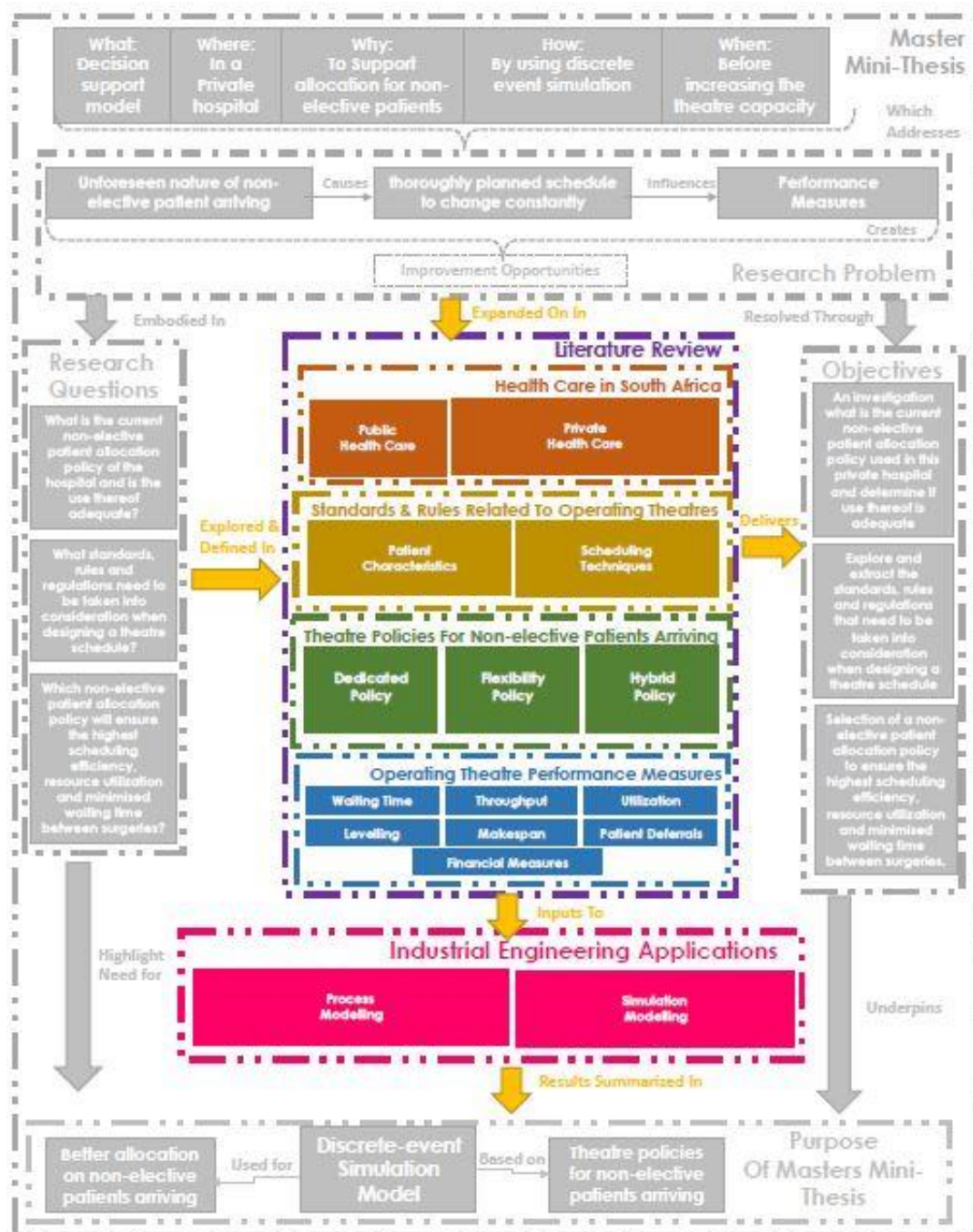


Figure 2: Visualized research framework – Chapter 2

As previously stated Figure 1 is a visual representation of the mini-dissertation to show the interconnectedness of the research, thus the outline of the literature review is presented Figure 2.

2.2. Healthcare in South Africa

An important benchmarking comparison between countries is to determine their doctor-patient ratios. This information enables them to benchmark among one another. According to the 2001 data from the World Bank, the doctor ratio per 10 000 population in low-, middle- and high-income countries should be as follows (World-Bank, 2001):

Table 3: Doctor ratio per 10 000 population in high-, middle- and low-income countries (World-Bank, 2001).

High-income countries	28 doctors per 10 000 people
Middle-income countries	18 doctors per 10 000 people
Low-income countries	5 doctors per 10 000 people

In South Africa, healthcare has to be provided to all citizens as set out by the Constitution as part of their human rights. Public healthcare is therefore available to all South African citizens, although there are individuals who prefer the private healthcare sector instead. According to Heng and Wright (2013), the Institute of Medicine created an acronym 'STEEP' in 2001 to represent the components believed to ensure quality care within the healthcare sector. These components are:



Figure 3: STEEP acronym - components believed to ensure quality care within the healthcare sector

The Department of Health's Strategic Plan 2015/16 – 2019/20 similarly states that its mission is “to improve health status through the prevention of illness, disease and the promotion of healthy lifestyles, and to consistently improve the healthcare delivery system by focusing on access, equity, efficiency, quality and sustainability” (DepartmentOfHealth(DOH), 2015). Since hospitals benchmark among one another, it has become a crucial objective of hospitals to ensure more efficient and effective practices within their healthcare delivery system (Alons, 2012a).

Healthcare in South Africa is provided in two parallel sectors. These are known as the:

- ❖ Public healthcare sector
- ❖ Private healthcare sector

Both the public and private healthcare sector aim to meet the healthcare needs of South African citizens, but there is a notable difference between the two sectors (Mukhtar *et al.*, 2013), as shown in **Table 4** below:

Table 4: Differences between Public and Private Healthcare (Mukhtar *et al.*, 2013)

	Public Healthcare	Private Healthcare
<i>Funding</i>	Public healthcare is dependent on government funding. According to the report by D. Marjorie Jobson (2015), 40% of the health expenditures are funded by the National Treasury, meaning that approximately 11% of the National budget is allocated to public healthcare.	Consumers are responsible for paying for services received either privately, through medical aid, or medical insurance. Cost can become extremely high.
<i>Ownership</i>	Owned by government.	Privately owned by one or more companies.
<i>Service/Profit-oriented</i>	Service-oriented.	Profit-oriented.

According to World Health Organization (WHO, 2016), South Africa has a doctor-patient ratio of 8.18 per 10 000 population. **Table 5** below clearly shows how South Africa compares to its neighbouring countries. Comparing it to the data provided in **Table 3**, it is evident that South Africa falls slightly above the set targets for low-income countries.

Table 5: Doctors ratio per 10 000 population in South Africa and neighbouring countries (WHO, 2016)

Country	Doctor ratio per 10 000 population	Latest available year
<i>South Africa</i>	8.18	(2016)
<i>Botswana</i>	3.84	(2012)
<i>Namibia</i>	3.72	(2007)
<i>Swaziland</i>	1.47	(2009)
<i>Zimbabwe</i>	0.77	(2014)
<i>Mozambique</i>	0.55	(2013)
<i>Lesotho</i>	0.47	(2003)

When considering the provincial data provided by the World Health Organization (WHO, 2016) as shown in **Table 6** below, it is clear that North West has an extremely low doctor ratio per 10 000 population in comparison to the other provinces in South Africa.

Table 6: Doctors ratio per 10 000 population per province in South Africa (WHO, 2016)

Province	Doctor ratio per 10 000 population
<i>Western Cape</i>	14.7
<i>Gauteng</i>	12.6
<i>Free State</i>	5.4
<i>KwaZulu-Natal</i>	5.2
<i>Northern Cape</i>	4.2
<i>Mpumalanga</i>	3.0
<i>Eastern Cape</i>	2.7
<i>North West</i>	2.3
<i>Limpopo</i>	1.8

Table 7 reveals that the South African population comprises of 55 176 million citizens and has grown by 9 367 million citizens since 2002. The population rate for North West is 3 758 million, only covering 6.8% of the South African population (StatsSA, 2016).

Table 7: Population per Province, 2002-2016 (StatsSA, 2016)

	Total population (Thousands)									
	WC	EC	NC	FS	KZN	NW	GP	MP	LP	RSA
2002	4 851	6 290	1 056	2 724	9 326	3 101	10 048	3 560	4 852	45 809
2003	4 951	6 316	1 066	2 725	9 420	3 141	10 273	3 610	4 907	46 409
2004	5 051	6 343	1 075	2 726	9 517	3 182	10 501	3 661	4 964	47 020
2005	5 153	6 371	1 085	2 728	9 616	3 223	10 731	3 711	5 022	47 640
2006	5 256	6 400	1 095	2 729	9 715	3 266	10 965	3 762	5 081	48 270
2007	5 360	6 431	1 105	2 732	9 816	3 310	11 202	3 814	5 141	48 910
2008	5 466	6 460	1 114	2 735	9 918	3 355	11 446	3 866	5 201	49 561
2009	5 573	6 491	1 124	2 737	10 023	3 401	11 694	3 917	5 262	50 223
2010	5 682	6 522	1 134	2 740	10 129	3 448	11 946	3 970	5 325	50 896
2011	5 792	6 554	1 143	2 744	10 237	3 497	12 202	4 022	5 388	51 580
2012	5 904	6 586	1 153	2 749	10 346	3 547	12 464	4 075	5 452	52 275
2013	6 017	6 620	1 163	2 753	10 457	3 598	12 728	4 128	5 518	52 982
2014	6 131	6 656	1 173	2 758	10 571	3 650	12 996	4 182	5 585	53 701
2015	6 246	6 693	1 182	2 763	10 688	3 703	13 268	4 236	5 654	54 432
2016	6 362	6 731	1 192	2 769	10 807	3 758	13 543	4 290	5 724	55 176

South Africa's public healthcare demand remains very high due to the country's high levels of poverty and unemployment. **Figure 4** shows that of the 55 176 million South African citizens, 39 672 million

(71.9%) consulted a public healthcare facility in 2016 in comparison with the 14 898 million citizens (27%) who consulted private healthcare (StatsSA, 2016).

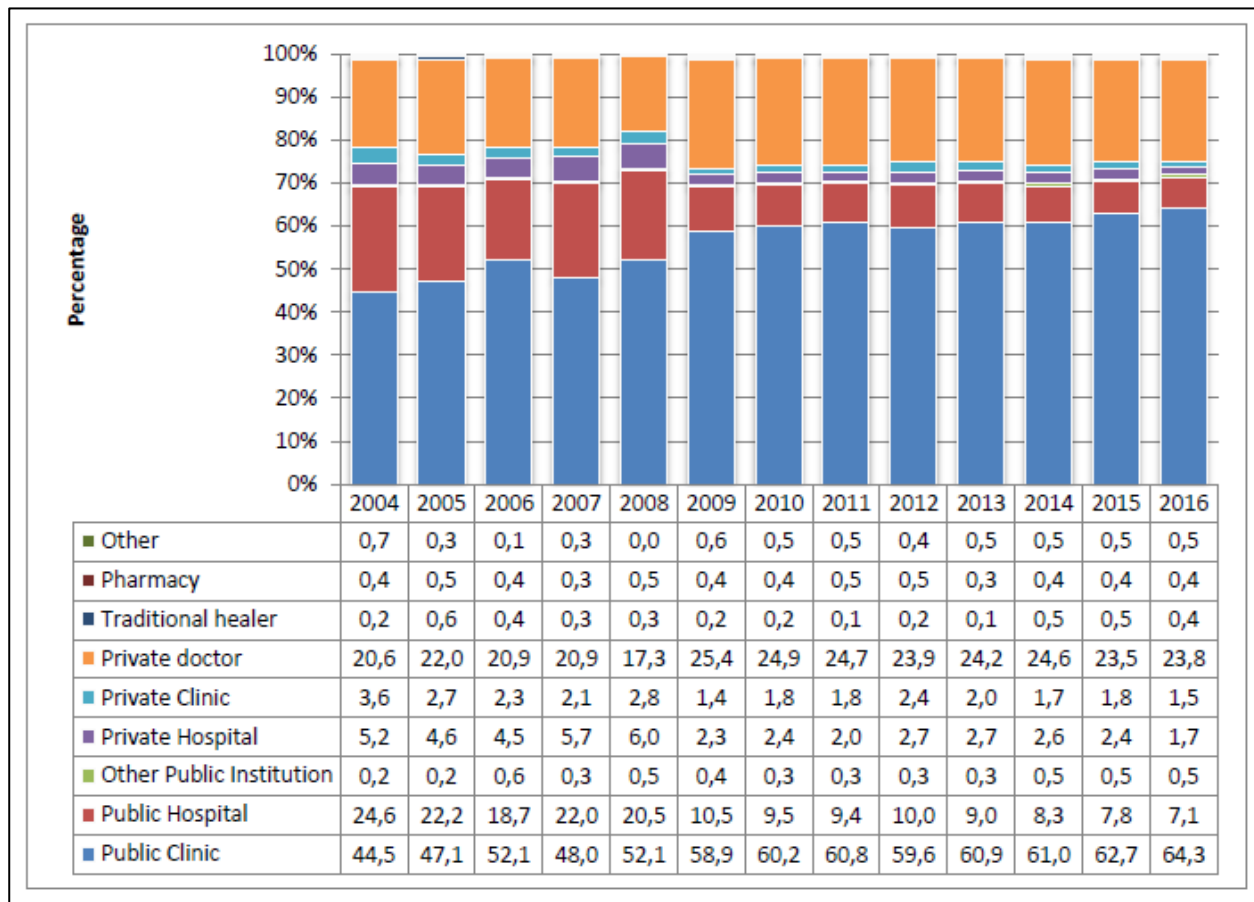


Figure 4: Percentage distribution of the type of health care facility consulted first by the households when members fall ill or get injured, 2004–2016 (StatsSA, 2016)

Table 8 shows that only 17 out of every 100 South African citizens has medical aid coverage. **Figure 5** clearly indicates that in the North West only 15.4% of the citizens are members of medical aid schemes, and this is after it has grown with 1.6% since 2011 (StatsSA, 2016).

Table 8: Medical aid coverage, 2002–2016 (StatsSA, 2016)

Indicator (Numbers in thousands)	Year											
	2002	2004	2006	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number covered by a medical aid scheme	7 296	7 331	6 871	8 156	8 698	9 146	8 450	9 285	9 732	9 625	9 458	9 499
Number not covered by a medical aid scheme	38 325	39 600	41 337	41 253	41 168	41 474	42 888	42 658	43 048	43 572	44 599	45 149
Subtotal	45 620	46 930	48 208	49 410	49 866	50 621	51 337	51 943	52 780	53 197	54 057	54 648
Percentage covered by a medical aid scheme	15,9	15,6	14,2	16,5	17,4	18,1	16,5	17,9	18,4	18,1	17,5	17,4
Do not know	135	60	36	98	20	23	18	51	36	48	68	56
Unspecified	53	29	25	54	337	252	224	281	166	456	308	472
Total population	45 809	47 019	48 270	49 561	50 223	50 896	51 580	52 275	52 982	53 701	54 433	55 176

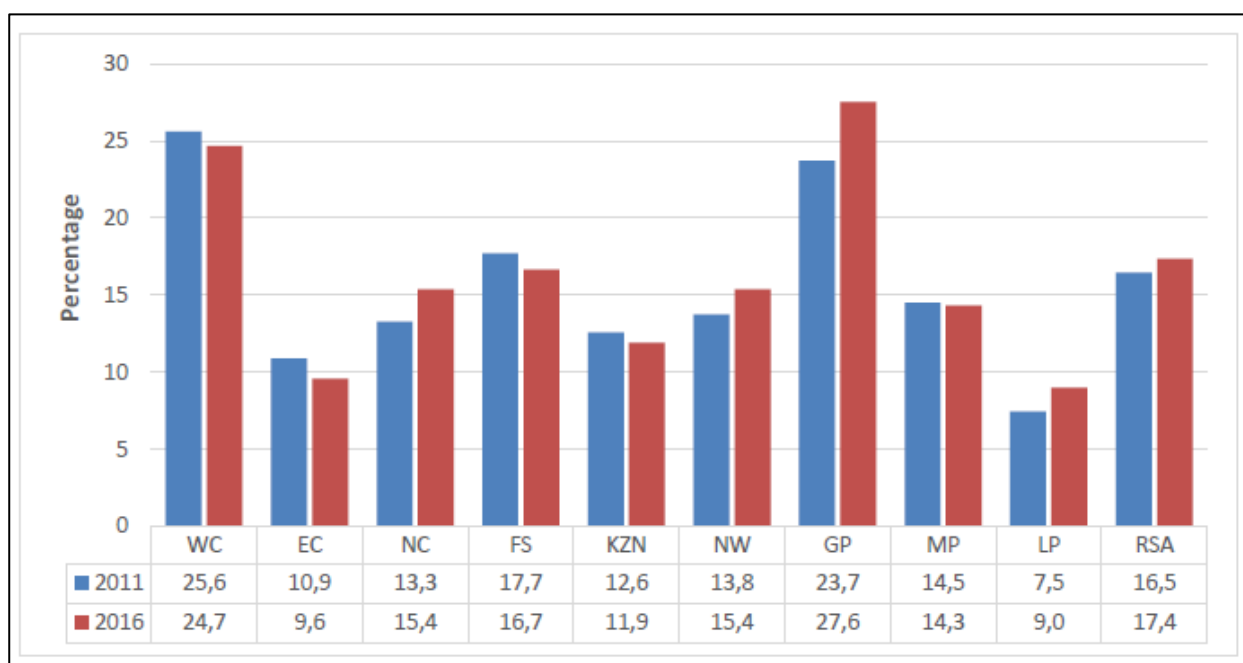


Figure 5: Percentage of individuals who are members of medical aid schemes per province, 2011 and 2016 (StatsSA, 2016)

In South Africa there is a clear gap between low and high income groups within the South African population. As mentioned in the introduction, healthcare is a human right in South Africa. However, due to the large income gap, not all citizens can afford to use private healthcare. The government acted by developing the National Health Insurance (NHI) plan to ensure that all South Africans are provided universal health coverage. This would provide them with quality healthcare regardless of their income (DepartmentOfHealth(DOH), 2018). The NHI plan aims to create a single pool of

healthcare that includes both public and private healthcare services, therefore breaching the gaps that emerge in the current two-tiered healthcare approach used in South Africa. The NHI plan will enable South African citizens who fall into low-income groups to make use of services in the private healthcare sector. However, this will not change the current private healthcare sector or the use of medical aids. These services will still be available. The only notable difference will be the fact that the South African government will no longer provide tax subsidies to medical schemes, Medical aid premiums may therefore become unaffordable. The implantation of the NHI plan still has a long way to go, but it is the future South African healthcare model.

2.3. Standards and Rules Related to Operating Theatres

The surgical department of a hospital includes many different sections, and the operating rooms are one of those sections. In accordance to the Guidelines for Design and Construction of Hospitals and Health Care Facilities (AIA, 2001:34-38), certain guidelines should be taken into consideration when a surgical department is constructed. The next paragraph provides more information on the guidelines.

The surgical department should be divided into the following sections:

- ❖ **Unrestricted Section:** This section is where the general admission of patients takes place and where they enter for surgeries. Surgical attire is not required in this section.
- ❖ **Semi-restricted Section:** This section can be seen as the supporting sections of the operating theatres. In this section instruments are processed from cleaning and sterilization to storage and from storage to the operating theatres. In this section surgical attire it is required.
- ❖ **Restricted Section:** The restricted section is the operating theatre where operating procedures take place. Here surgical attire is also required.

According to the Guidelines for Design and Construction of Hospitals and Health Care Facilities (AIA, 2001:34-38) operating theatres should meet different size requirements. Information on the sizes are given in **Table 9** below.

Table 9: Operating Theatre Size Requirements (AIA, 2001:34-38)

Type of Operating Theatre	Size¹	Comments
<i>Operating theatre(s) for general procedures</i>	37.16 m² There should be a minimum clearance of (6.10m) between fixed cabinets and built-in shelves.	If it is not possible to meet this size requirement, the appointed authorities may grant permission to have a room with a minimum clear area of (33.45m²) and a minimum clearance of (5.49m) between fixed cabinets and built-in shelves.
<i>Operating theatre(s) for cardiovascular, orthopaedic, neurological procedures</i>	(37.16 + 55.74)m² The 55.74 m² is the additional clear area needed in addition to that of a general operating theatre. There should be a minimum clearance of (6.10m) between fixed cabinets and built-in shelves.	If it is not possible to meet this size requirement, the appointed authorities may grant permission to have orthopaedic rooms with a minimum clear area of (33.5m²) and with a minimum clearance of (5m) between fixed cabinets and built-in shelves. It should have cardiovascular and neurological rooms with a minimum clear area of (44.39m²). Orthopaedic operating theatres should have an enclosed storage for splints and traction equipment. This storage can be located inside or outside the theatre, but should be easily accessible. If a sink is used for the disposal purposes of plaster, it is required that there should be a plaster trap present.
<i>Operating theatre(s) for cystoscopic and endo-urolologic procedures</i>	32.52 m² There should be a minimum clearance of (4.57m) between fixed cabinets and built-in shelves.	If it is not possible to meet this size requirement, the appointed authorities may grant permission to have a cystoscopy room with a minimum clear area of (23.28m²)

¹ Minimum clear area excluding fixed or wall-mounted cabinets and built-in shelves

2.3.1. Patient characteristics

This section takes a cursory look at the different patient characteristics to gain an understanding of how surgical suits operate. Healthcare literature refers to two types of patients. These types can be categorized as elective patients and non-elective patients. The next paragraph differentiates between elective patients and non-elective patients.

(a) Elective patients

Elective patients are patients whose surgeries can be planned and scheduled well in advance. These type of surgeries are known as elective surgeries. Elective patients can be divided into sub-categories such as inpatients and outpatients.

(i) Inpatient

The Oxford Learner's Dictionary's online dictionary (2018) defines an inpatient as "a patient who stays in hospital while receiving treatment".

(ii) Outpatient

The Oxford Learner's Dictionary's online dictionary (2018) defines an outpatient as "a patient who goes to hospital for treatment but does not stay there".

(b) Non-elective patient

Non-elective patients are patients whose surgeries cannot be planned or scheduled well in advance due to the emergent and unforeseen nature of the surgeries. Non-elective patients may arrive from different departments within the hospital. The department can include the following:

- ❖ the emergency department (ED);
- ❖ the intensive care unit; and
- ❖ inpatient wards.

The admission ratings of the above-mentioned departments help to determine the probability of non-elective patients arriving by formalizing the relevant patient mix.

On the arrival of non-elective patients, the hospital should make an important decision based on the schedule. The patient has to either be admitted or referred to another healthcare provider. When deciding to admit the non-elective patient, the practitioner should first look at the influence it will have on the current schedule of elective patients.

Non-elective patients differentiate between urgent patients and emergent patients.

(i) Urgent Patients

Urgent patients can be defined as patients who arrive suddenly and unexpectedly, requiring a rapid response (The-free-Dictionary, 2017). Urgent patients are sufficiently stable, but still have to undergo surgery as soon as possible.

(ii) Emergent Patients

Emergent patients can be defined as patients who arrive unexpectedly, calling for quick judgement and prompt action (The-free-Dictionary, 2017). Surgery should be performed on emergent patients as soon as possible. What distinguishes emergent patients from urgent patients is that an emergent patients may not be as sufficiently stable.

2.3.2. Scheduling techniques

The theatre schedule plays a very important role when it comes to managing a successful surgical unit. The main purpose of a theatre schedule is to:

- ❖ reduce the waiting time of patients;
- ❖ reduce the cost by avoiding factors such as overtime etc.; and to
- ❖ maximize the utilization rate of theatres.

Different theatre scheduling techniques can be used (Sufahani *et al.*, 2012b). These techniques are as follows:

- ❖ Open scheduling
- ❖ Block scheduling
- ❖ Modified block scheduling

(a) Open scheduling

When an open scheduling approach is followed to compile the master surgical schedule, operating request are sent in and a schedule is compiled where surgeries and surgeons are assigned to certain timeslots in the master surgical schedule (Pulido *et al.*, 2014a). This is usually compiled a day before the surgeries have to take place. With the open scheduling approach, each surgery is scheduled as an individual case not dependant on a block allocated for a specified surgeon or surgical group like with the block scheduling approach. This approach is often also referred to as the first-come-first-serve approach. **Table 10** shows an advantage and disadvantage of using this scheduling approach.

Table 10: An Advantage and Disadvantage of using an Open Scheduling approach (Patterson, 1996)

Advantage	This can be beneficial to surgeons who are able to schedule their surgeries well in advance.
Disadvantage	Due to the first-come-first-serve nature of open scheduling, it may not be beneficial for surgeries that cannot be scheduled well in advance due to their unpredictable nature, e.g. cardiac and orthopaedic surgeries.

(b) Block scheduling

The block scheduling approach entails that slots are allocated to a surgeon or surgical group as per availability (Albert *et al.*, 2006). Surgeons or surgical groups can then schedule surgeries in their allocated block of time. It is important that when they schedule surgeries they should fit into the allocated block time. It may happen that surgeons realize that they will use more than their allocated time. In cases like this they should extend their allocated block time in advance. **Table 11** provides the advantage and disadvantage of using this scheduling approach.

Table 11: An Advantage and Disadvantage of using a Block Scheduling approach (Patterson, 1996)

Advantage	This type of scheduling approach provides surgeons or surgical groups with assigned and predictable timeslots.
Disadvantage	If a surgeon or surgical group to whom the time slot is allocated does not have enough surgeries, it may have a negative influence on the utilization rate of the operating theatre

(c) Modified block scheduling

Modified block scheduling is a scheduling technique that uses a combination of open and block scheduling techniques. This can be applied in two different ways. First, the block scheduling approach can be followed where slots are allocated to a surgeon or surgical groups, and unused slots are then identified in an allocated time frame. The open scheduling approach is then applied to the slots that are not used as blocks. According to Rafaliya (2013:7,8), block scheduling and modified block scheduling approaches are used most frequently in hospitals. **Table 12** provides the advantage and disadvantage of using this scheduling approach.

**Table 12: An Advantage and Disadvantage of using a Modified Block Scheduling approach
(Patterson, 1996)**

Advantage	This can help with surgeries that can be planned well in advance and for those that cannot.
Disadvantage	Compiling a modified block schedule can become a very challenging task to manage a balance between the different approaches used here.

2.4. Theatre Allocation Policies for the Arrival of Non-Elective Patients

During the scheduling of the operating theatres the scheduler should keep in mind that there is a possibility of non-elective patients arriving, therefore different allocation policies should be considered. Van Riet and Demeulemeester (2015a:52-69) elaborate on the following allocation policies:

- ❖ Flexibility policy
- ❖ Dedicated policy
- ❖ Hybrid policy

2.4.1. Flexibility Policy

With a flexibility policy, all surgeries, both elective and non-elective, are grouped together. The flexibility policy has two possible options:

Option 1: As shown in **Figure 6**, the full capacity of the operating theatre is filled to a certain fraction. By doing this some capacity is left as safety net for unexpected events such as non-elective patients arriving.

Option 2: As shown in **Figure 7**, the schedule is planned in such a way that a certain time frame is scheduled for unexpected arrivals of non-elective patients. According to Van Riet and Demeulemeester (2015a:59), this specific time frame can either be:

- ❖ Break-in-moments (BIM's)
- ❖ Time intervals
- ❖ Breaks

The purpose of break-in-moments is to help ensure that when a non-elective patient arrives, the time between waiting for a surgery and receiving a surgery is minimized.

It is also important to note that if no unexpected events occur (no non-elective patients arriving) the capacity is left unused. The arrival of unexpected events is only considered as a possibility.

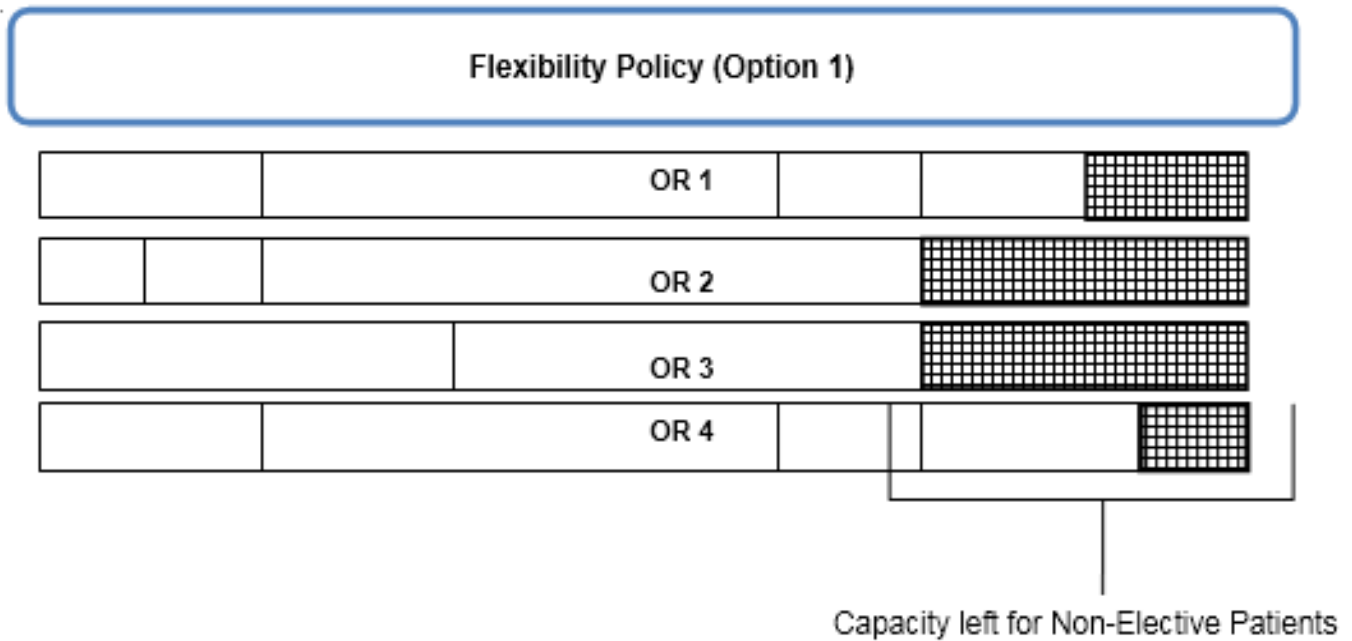


Figure 6: Flexibility policy (Option 1)

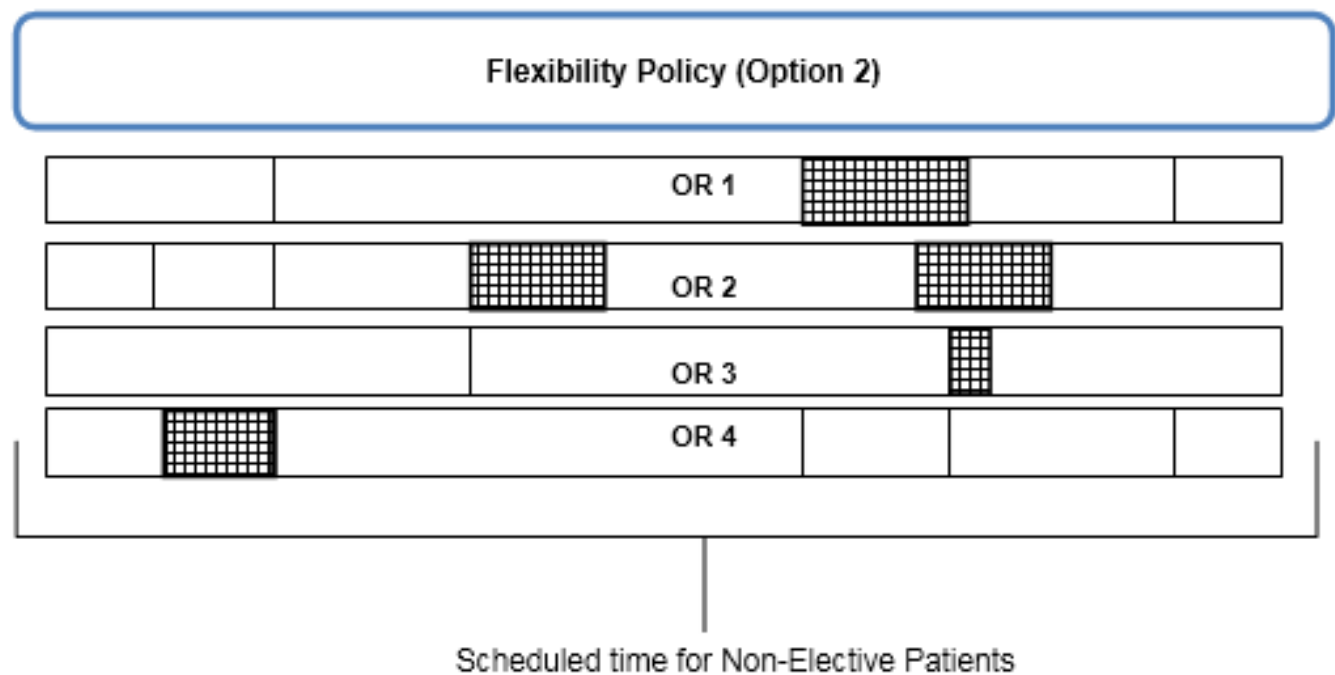


Figure 7: Flexibility policy (Option 2)

2.4.2. Dedicated Policy

In this policy the operating theatres are dedicated to serve specific categories of patients. When making use of the dedicated policy, one should clearly indicate the type of patients each operating theatre would be dedicated to as shown in **Figure 8**. This will also be dependent on the patient categories you decide on, for example elective or non-elective patients. The dedicated policy is used to help reduce the variability of flow going through the operating theatres. This also helps to reduce

rescheduling and cancellation. Another important factor that should be clearly defined is how many operating theatres would be dedicated to a specific category of patients.

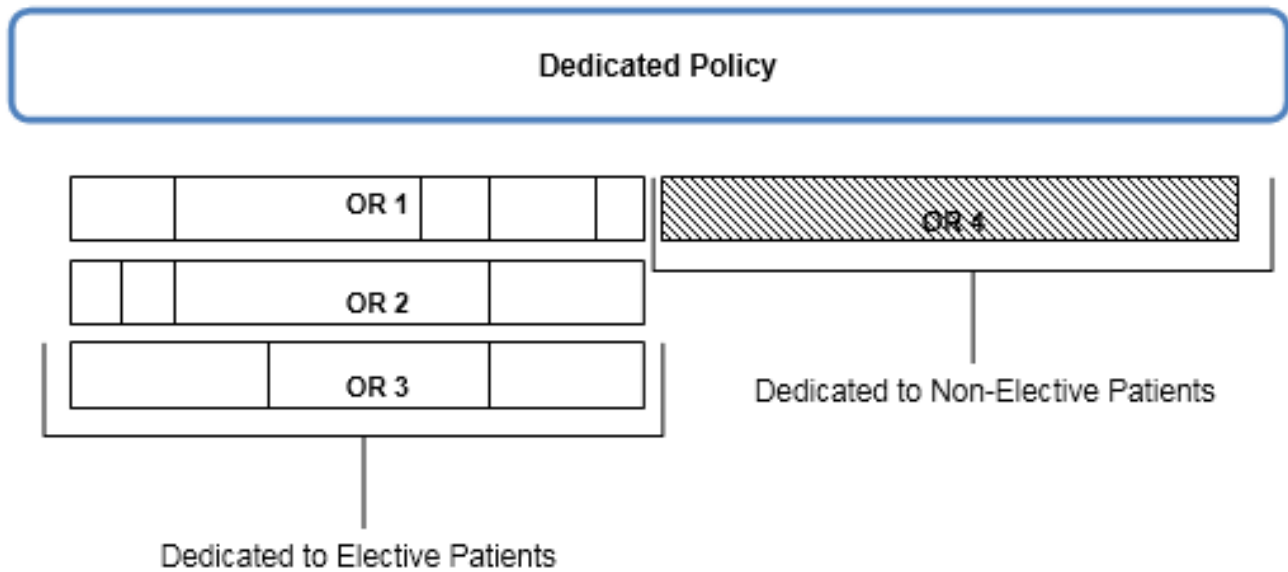


Figure 8: Dedicated policy

2.4.3. Hybrid Policy

The hybrid policy is a policy that consist of a combination of characteristics from the flexibility policy and the dedicated policy. This policy entails that some operating theatres are dedicated to specific patient categories (dedicated policy) and other theatres are used for all patient categories (flexibility policy).

When the hybrid policy is used it is important to:

- ❖ clearly define which operating theatres will make use of the flexibility policy and which will make use of the dedicated policy;
- ❖ clearly indicate how patients will be divided between the different operating theatres, in other words how would they qualify for the different types of operating theatres; and
- ❖ clearly indicate how patients can move over to operating theatres making use of other policies.

2.5. Operating Theatre Performance Measures

Operating theatre planning can be a complex process as many stakeholders are involved and because of the influence of variability on the output of performance measures such as financial indicators, waiting times, throughput and utilization (Van Riet & Demeulemeester, 2015a). In an idealistic healthcare system, healthcare providers would be able to provide the best quality of care at the right time to the right patient at the lowest cost possible, but due to the existence of the trade-offs as shown in **Figure 9**, it is easier said than done (Van Riet & Demeulemeester, 2015b).

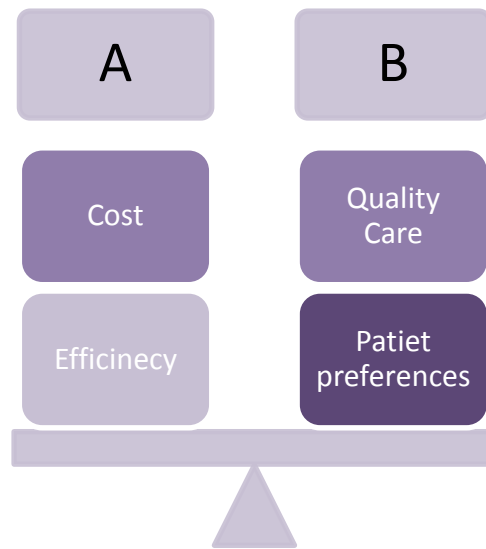


Figure 9: Trade-offs in operating theatre planning (Van Riet & Demeulemeester, 2015b)

Hospitals can use performance measure dashboards to benchmark internally against performance indicators over time and externally against recognized best practices (Fixler & Wright, 2013).

Van Riet and Demeulemeester (2015a:52) give examples of events that cause variability in the surgical processes, these examples are as follows:

- ❖ Late arrivals: This can include the late arrivals of patients, medical records and medical staff.
- ❖ Non-arrival: This can include the non-arrival of patients for surgeries or the non-arrival of staff.
- ❖ Delay in support services and the incorrect reservation of equipment.
- ❖ Variability of surgery procedures.
- ❖ Variability of setup times.
- ❖ Variability of cleaning times.
- ❖ Variability of change-over times.
- ❖ Arrival of urgent and emergent patients.

2.5.1. Waiting time

Waiting time is a well-known performance measure in healthcare. According to Law (2015), the waiting time can be defined as the time from the moment the patient enters the process until the time the patient completed the process and exits the system.

There are a few different waiting times that should be differentiated:

- ❖ **Indirect waiting time:** This is the time between the decision that surgery is required and the actual day of surgery (This is applicable to elective patients).
- ❖ **Direct waiting time:** Elective patients – This is the time between the scheduled time of the surgery and the actual time when the surgery takes place. Non-elective patients – It is the time between the arrival of the emergency and the actual surgery taking place.

Long waiting times can lead to a few disadvantages, such as (Alons, 2012b):

- ❖ Bad patient satisfaction rates due to long waiting times for elective patients.
- ❖ Health risks due to long waiting times for non-elective patients, categorized as emergent and urgent patients.

2.5.2. Throughput

The Oxford Learner's Dictionary's online dictionary (2018) defines throughput as "the amount of work that is done, or the number of people that are dealt with, in a particular period of time." This is one of the performance measures that one would want to maximize. An improved patient throughput will have a positive influence on the waiting time.

2.5.3. Utilization

Utilization is a well-known performance measure. In this context, further referred to as daily utilization, it measures the time that an operating theatre is used against the time that the operating theatre is indicated available. The time that an operating theatre is used refers to the time when the patient enters the operating theatre until the patient exits the operating theatre. The time that the operating theatre is available refers to the operational time of the theatre. It is important that operating theatres maintain a balance between low and high utilization levels (Alons, 2012b). Low utilization levels can have a negative effect on the financial indicators of the operating theatre. High utilization levels may have a positive and negative effect on the other performance measures of the operating theatre. High utilization levels may contribute towards a higher throughput and shorter waiting times. A higher throughput will have a positive reflection on financial indicators. On the other hand, high utilization may have a negative effect on the theatre schedule because it does not provide much room to accommodate variabilities within the system. The efficiency of a theatre can be examined by measuring the utilization of the theatre (Hartmann & Sunjka, 2013).

2.5.4. Levelling

Levelling can be defined as a performance measure where the focus is on levelling resources to ensure smooth usage of resources to avoid peaks that cause capacity problems (Alons, 2012b).

2.5.5. Makespan

According to Alons (2012b), this performance measure measures the time between the arrival of the first patient and the completion of the last patient. Thus, the makespan can be improved by minimizing the operating theatre closing time.

2.5.6. Patient deferrals

Patient deferrals in this context refers to when patients delay their scheduled surgeries, causing increased waiting times for the other patients (Alons, 2012b).

2.5.7. Financial measures

One of the most expensive parts of the hospital is the operating theatre itself (Alons, 2012b). Therefore, hospitals definitely work towards minimizing financial expenses wherever possible when it comes to the operating theatres.

2.6. Tools and Techniques for Theatre Scheduling

2.6.1. Process modelling

Process modelling is a technique used to visually represent different processes. A process model can either be developed for the current state, also known as the 'as is' state, or for the future state, also known as the 'to be' state.

There are different types of process modelling techniques that can be used. A few examples include:

- ❖ Flowcharts
- ❖ Business process modelling (BPMN)
- ❖ Data flow diagram (DFD)

The following steps are typically followed when a process model is created:

Step 1: Develop a current state model depicting the process you are working on.

Step 2: Identify possible process improvements by:

- *Analysing the process*
- *Identify possible constraint and problems within the systems*
- *Identify possible solutions*

Step 3: Adapt the current state model by including possible solutions to the constraints and the problems identified in Step 2 and develop a future state model.

To ensure continuous improvements of the process step 1 to 3 can be repeated.

In healthcare, processes can be modelled from the different perspectives. According to Jun *et al.* (2009) the application of process modelling in the healthcare sector can become an essential tool to assist with:

- ❖ Creating a shared understanding of the process.
- ❖ Identifying possible improvements.
- ❖ Understanding the relationship between different elements within a system. In this context the researcher will typically look at the relationship between patients and resources and how they interact with one another.

2.6.2. Simulation modelling

Simulation is one of many different tools and techniques used within the healthcare sector for the purpose of analysing, improving processes and providing support to enable better operational decision making (Günel & Pidd, 2010). Simulation modelling is used due to its ability to mimic real-life scenarios and how they change over time (Persson, 2007). It is also very useful when exploring the relationship between human-oriented variables and infrastructure-oriented variables (Almagooshi, 2015). This tool and technique allows the researcher to test many different scenarios and variables before actual implementation. This minimizes factors such as wasting money and resources on implementing scenarios not tested thoroughly. Not only does the use of simulation modelling save costs, it also saves time and it provides the opportunity to evaluate different scenarios without disrupting the day-to-day procedures and operations in the hospital (Pulido *et al.*, 2014b). It is important to take into consideration that simulation is a prediction model of the reality and not necessarily a model generating the optimal solution for the problem.

There are different types of simulation models used within the field of healthcare. According to Sweetser (1999) the different simulation modelling approaches used are as follow:

- ❖ System Dynamics Simulation
- ❖ Discrete Event Simulation
- ❖ Monte Carlo Simulation
- ❖ Agent-based modelling

(i) System Dynamics Simulation Modelling

System dynamics is an abstract method of modelling and according to Sweetser (1999) system dynamics can be defined as “a methodology used to understand how the systems change over time.” With this modelling techniques the focus is not placed on individual characteristics but rather placed

on the representation of the system as a whole, thus it is system-oriented. Therefore the behaviour of the system will not be influenced by the actions of individuals. System dynamics modelling can be a very useful tool to model continuous processes of non-linear changes and it can be helpful when making long term strategic decisions. The main objective of a system dynamics simulation model is to determine under what conditions the process modelled will change and to what extent will it change. The nature of a system dynamics simulation is deterministic in other words outcomes can be precisely determined due to random variables not taken into consideration. With this simulation model a Top-down approach is followed.

This simulation modelling technique can be used in healthcare to:

- ❖ Model chronic disease preventions
- ❖ Determine the effect of drug-resistant infections.
- ❖ Determine the effect if ineffective management of chronic illness
- ❖ Investigate the decline in health related quality.

(ii) Discrete Event Simulation Modelling

Discrete event simulation is used to model processes that consist of discrete events in time thus is process-oriented. This method of modelling are much more focused on detail opposed to systems dynamic simulation modelling method. According to Sweetser (1999) a discrete event simulation is used to understand a process, how it works and to observe how its behaviour will change when changes are implemented thud the behaviour of entities are determined by the system itself. The nature of a discrete event simulation is stochastic in other words it may happen that with the same set of data and initial conditions set different outcomes output can be obtained due to variability taken into consideration. According to Jun *et al.* (1999), discrete-event simulation has been widely used to:

- ❖ Solve resource allocation problems;
- ❖ Improve of patient flow;
- ❖ Reduce costs; and
- ❖ Increase patient satisfaction.
- ❖ Compare and evaluate medical interventions
- ❖ Investigate operating theatre schedules

(iii) Monte Carlo Simulation Modelling

Monte Carlo is a modelling technique used to determine and illustrate the potential outcomes related to decisions made and the probability of the outcome occurring. Monte Carlo can be used to develop forecasting models. Results are very transparent for it doesn't only indicate all the potential outcomes but also the likeliness of each outcome.

This simulation modelling technique can be used in healthcare to:

- ❖ Forecast the number patients that will arrive at healthcare centres in the near future.
- ❖ Determine the effect of medicine on sample size of patients of the same nature.
- ❖ Improve inventory decisions by predicting the demand of different medicine

(iv) Agent-based Simulation Modelling

Agent-based simulation is a modelling technique where individuals, in this case agents, can interact with one another and with the environments. The output then represents this interaction and the effect thereof. Agents in an agent-based simulation has their own behaviour other than with a discrete event simulation. Agent-based simulation follow a bottom-up approach and don't use the concept of queues. The nature of an agent-based simulation is stochastic and individual-oriented.

This simulation modelling technique can be used in healthcare to:

- ❖ Simulate a hospital emergency department taking the human factor into consideration.

For the purpose of this study the focus is on discrete-event simulation to take into consideration the uncertainty of non-elective patients arriving. With a discrete-event simulation we will also be able model patients as individual and independent individuals to whom attribute information can be assigned and with this type of simulation it is assumed by the model that there is no change to the systems in between events..

2.7. Chapter Summary

This chapter provided some background about the healthcare in South Africa, explaining the notable differences in the two-tiered healthcare approach in South Africa of private and public healthcare and how the implementation of the NHI plan aims to breach the gap between the two sectors. A brief discussion on the patient characteristics and scheduling techniques followed, after which the discussion turned to theatre policies for non-elective patients arriving and operating theatre performance measures. The chapter concluded with a short discussion of industrial engineering techniques such as process modelling and simulation modelling. The next chapter provides an outline of the research method according to the objectives of the study.

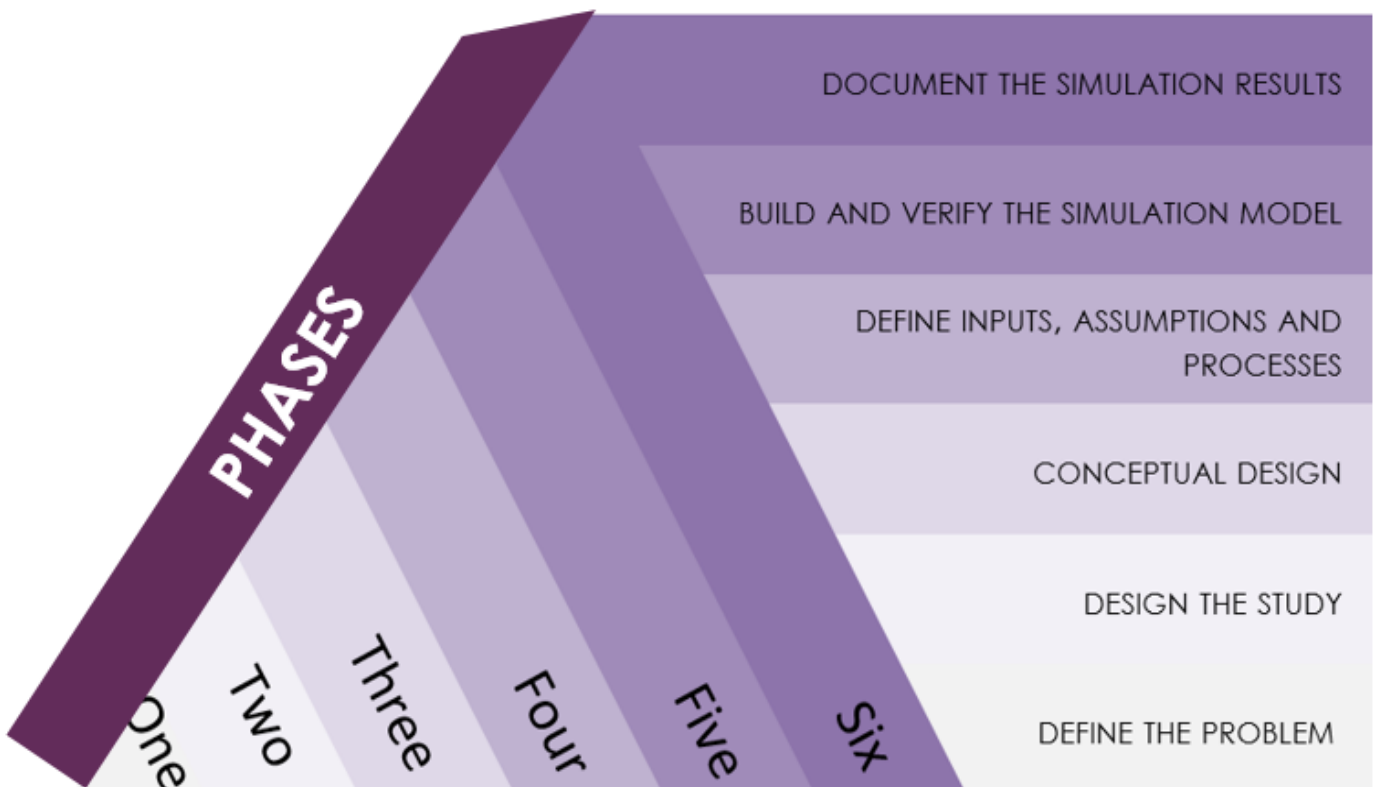
Chapter 3: Research Method

3.1. Introduction

This chapter presents a brief overview of the research method used in developing a decision model to support theatre allocation for non-elective patients arriving at a private hospital. Although some of the research is presented in other chapters of this mini-thesis, the research pertaining the research method will be reiterated and summarized in this chapter. The research method used is a step-by-step approach adapted from Ülgen *et al.* (2006). The research method consists of six phases as shown in **Figure 10**. These phases are:

- ❖ **Phase 1:** Define the problem.
- ❖ **Phase 2:** Design the study.
- ❖ **Phase 3:** Conceptual design.
- ❖ **Phase 4:** Define the inputs, assumptions and processes.
- ❖ **Phase 5:** Build and verify the simulation model.
- ❖ **Phase 6:** Document the simulation results.

Figure 10: Research Method Phases – Chapter 3



3.2. Phase 1: Define the Problem

Phase 1 of the research method consists of the following steps that should be taken into consideration while designing the study:

❖ Step 1: Determine and define the research problem

Research starts by defining a problem. In order to properly define the problem, it is important to understand the problem within the context of the research field into which it fall.

The research problem for this study is [Chapter 1 – Section 1.2]:

The unpredictability of non-elective patients arriving causes a thoroughly planned schedule to change on the arrival of non-elective patients. This may have an influence on efficiency rates, utilization and waiting time between surgeries.

❖ Step 2: Determine and define the research questions

The research questions focus the research and help to determine the fundamental objectives of the research that are conducted.

The research questions for this study are [Chapter 1 – Section 1.3]:

Research Question 1: What is the current non-elective patient allocation policy of the hospital?

Research Question 2: What standards, rules and regulations should be taken into consideration when designing a theatre schedule?

Research Question 3: What non-elective patient allocation policy will ensure the highest scheduling efficiency, resource utilization and minimized waiting time between surgeries?

❖ Step 3: Determine and define the objectives of this study

The research objectives elaborate on what the researcher would like to achieve by the end of the study and explain how research questions will be answered.

The objectives for this study are [Chapter 1 – Section 1.4.2]:

Objective 1: Investigate the current non-elective patient allocation policy used in this private hospital.

Objective 2: Explore and extract the standards, rules and regulations that should be taken into consideration when designing a theatre schedule.

Objective 3: *Select a non-elective patient allocation policy to ensure the highest scheduling efficiency, resource utilization and minimized waiting time between surgeries*

❖ **Step 4: Determine the purpose of this study**

The purpose of this study is to:

The purpose of this study is [Chapter 1 – Section 1.4.1]:

To determine which non-elective patient allocation policy will be best suited to this private hospital to ensure a balance between scheduling elective patients and responding to the arrival of non-elective patients to contribute to the utilization of the operating theatres.

3.3. Phase 2: Design the Study

Phase 2 of the research method consist of the following steps that should be taken into consideration while designing the study:

❖ **Step 1: List the boundaries of the study**

During this step the broad assumptions of the study should be defined to state the boundaries of the study. This helps the researcher to ensure that the focus of the study does not shift.

The boundaries of this study are [Chapter 4 – Section 4.2.1]:

The boundaries of the simulation model are restricted to the flow of patients through the operating theatre.

Only the four current operating theatres were taken into consideration.

❖ **Step 2: Determine the number of models required.**

Here the number of models that should be developed to represent the different solutions. Each of the models may differ in terms of the processes they represent and the input data required.

The number of models required for this study are [Chapter 4 – Section 4.2.2]:

Model 1: *Simulation of the flexibility policy*

Model 2: *Simulation of the dedicated policy*

Model 3: *Simulation of the hybrid policy*

❖ **Step 3: Select the simulation tool and software that will be used**

The selection of the simulation tool and software used may be dependent on many different factors. These factors may include:

- Accessibility to tools and software
- Support with tools and software
- Design requirements
- Deliverable

It is important that all these factors are taken into consideration before a simulation tool and software are selected.

The simulation software used for this study are [Chapter 4 – Section 4.2.2]:

A discrete-event simulation in FlexSim 2017. It is important to note that the fundamental solutions of algorithms within the simulation model doesn't fall within the scope of this research.

❖ **Step 4: Determine the data that are available and that are needed**

Data collection can become a very difficult process. Therefore it is important to determine what data are available. When it is known what data are available, the data needed to build the simulation model can be extracted from that.

The data required for this study [Chapter 4 – Section 4.2.3]:

The data used to build this simulation model were directly retrieved from the hospital's information centre. The following data for the month of July (1 July – 31 July) were provided with regard to the theatre schedule:

- Physician specialities and surgical groups
- Theatre used
- Starting time of the operation
- Finishing time of the operation
- Elective or non-elective surgery

❖ **Step 5: Determine and define the deliverable of this study**

During this step it is important to define what the deliverables of the study will be and in what format it will be delivered.

The deliverable of this study is [Chapter 1 – Section 1.4.3]:

The deliverable of this research is a model to support non-elective patient policy decisions with respect to an operating theatre.

3.4.Phase 3: Conceptual Design

Phase 3 of the research method consists of the following steps that should be followed while constructing the conceptual design:

❖ **Step 1: Define the elements that drive the system**

Elements within a system can either be dynamic or static. Dynamic elements are those elements moving through a system causing other elements to react on a signal or interaction between the elements. The elements that react on a signal or interaction between the elements are known as the static elements. Therefore, during this step, it is important to define the dynamic and static elements within the system. This will help to determine which element will drive the system.

The dynamic elements for this study are [Chapter 4 – Section 4.2.4]:

Source: Where flow items (patients) are developed upon arrival

Queue: The queue is where flow items (patients) will wait to be processed by the processor (operating theatre)

Processor: The processor is the operating theatre where flow items (patients) will be processed

Sink: The sink is where the flow items (patients) are terminated

The static element for this study is [Chapter 4 – Section 4.2.4]:

Flow items: Patients (Elective & Non-Elective)

❖ **Step 2: Determine the level of abstraction that is required**

The extent of the detail that should be included in the model is dependent on the objectives of the study. Here it is important to determine the level of detail that is required so that it can be clearly defined.

❖ **Step 3: Construct object flow diagrams as conceptual models**

Taking into consideration step 1 to 3 during this phase of the research method, conceptual models in the form of object flow diagram can now be constructed.

The conceptual models for this study [Chapter 4 – Section 4.3]:

*Includes an **object flow diagram** of:*

- Flexibility policy
- Dedicated policy
- Hybrid policy

❖ **4: Determine and define where performance measures will be measured**

The object flow diagram constructed in Step 4 in this phase of the research method is used in Step 5 to determine where performance measures are determined. This can also be indicated on the constructed object flow diagrams.

Performance measures for this study are [Chapter 4 – Section 4.2.5]:

Utilization: In the context of this study utilization measures the time that an operating theatre is used against the time that the operating theatre is indicated to be available as discussed in Section 2.5.3.

3.5.Phase 4: Define Inputs, Assumptions and Processes

Phase 4 of the research method consists of the following steps that should be taken into consideration while defining the inputs, assumption and processes:

❖ Step 1: Describe the process or processes in detail

During this step it is important to clearly explain the flow and logic of all the dynamic and static elements in the system. This will help to generate a better understanding of the process simulated. The business process models (BPMN) included help to provide in-depth detail regarding the theatre scheduling process to enable the researcher to build the simulation models. Here standardized notation is used.

Process detail for this study [Chapter 4 – Section 4.3]:

*Includes **business process models** (BPMN) of:*

- Theatre scheduling process, and*
- Sub-processes of the process regarding theatre allocation according to the allocation policy*

❖ Step 2: Define the operating and functional specifications and assumptions of the model

Here the operating and functional specifications and assumptions should be defined. The operating specifications and assumptions include all specifications regarding the operations within the system as a whole. It is therefore also important to specify the assumptions that should be taken into consideration with regard to the operations itself. Here one would typically look at the processing time, downtime etc. The functional specifications focus on the components or entities in the systems, therefore functional specifications and assumptions have to be defined. The operating and functional specifications are discussed in depth in **Section 4.2.6,**

❖ Step 3: Analyse the input data

During this step, the input data obtained are analysed for use in the simulation model.

Analysed data for this study [Appendix F – Data for theatre allocation (Excel Workbook)]:

*The data received were compiled in Microsoft Excel. The data was then analysed to indicate how scheduling was done. This data provided were based on the current policy used by the hospital known as the flexibility policy and the current scheduling technique known as block scheduling. For more detail on the data, refer to **Appendix F***

❖ Step 4: Specify the runtime parameters

The time that the model should run should be clearly defined to ensure that this design requirement is met and that the results obtained from model are correctly portrayed according to the defined runtime parameters.

The runtime parameters for this study are [Chapter 4 – Section 4.2.7]:

The simulation model will simulate the operational time of the theatre for a period of one month.

The operational time of the theatre is 7AM until 7PM. Any surgeries scheduled after this time is assumed to be overtime and non-elective surgeries. The simulation model will not include overtime due to the complexity of overtime costing.

Surgeries scheduled over weekends are also not taken into consideration since it is also seen as overtime.

The model is set to minutes, therefore it is important to note that the performance measures indicated in the simulation model are also represented in minutes.

3.6. Phase 5: Build and Verify the Simulation Model

Phase 5 of the research method consists of the following steps to build and verify the simulation model:

❖ Step 1: Build the simulation model

With all the valuable information generated in the previous phase and the conceptual models constructed, the simulation model can now be built.

❖ Step 2: Verify the simulation model

The simulation model was verified by comparing the theoretical calculated cumulative utilization and the cumulative utilization obtained by each of the simulation models. The patient's path through each of the simulation models were also verified. This was done by

comparing the data used to build the simulation model and the State Gantt's obtained by the simulation models.

3.7. Phase 6: Document the Simulation Results

Phase 5 of the research method entails documenting the simulation results:

- ❖ **Step 1: Discuss and explain the simulation results. Refer to [Chapter 5] for detail regarding this.**
- ❖ **Step 2: Make recommendations for future studies in this field. Refer to [Chapter 7] for detail regarding this.**
- ❖ **Step 3: Compile the final project report to conclude the study and findings.**

3.8. Chapter Summary

This chapter gave a brief overview of the research method used in developing a decision model to support theatre allocation for non-elective patients arriving at a private hospital. A brief discussion on each phase and the step-by-step approach of each phase of the research method was explained. In the next chapter the simulation model is discussed.

Chapter 4: Simulation Model

4.1. Introduction

This chapter presents an overview of the simulation models that was developed as a decision model to support theatre allocation for non-elective patients arriving at a private hospital. This chapter also provides more in-depth information with regard to the design requirements of the simulation models and conceptual designs consisting of object flow diagrams to help explain the detailed processes that take place within the simulation models. Finally, the chapter provides information on the simulation itself.

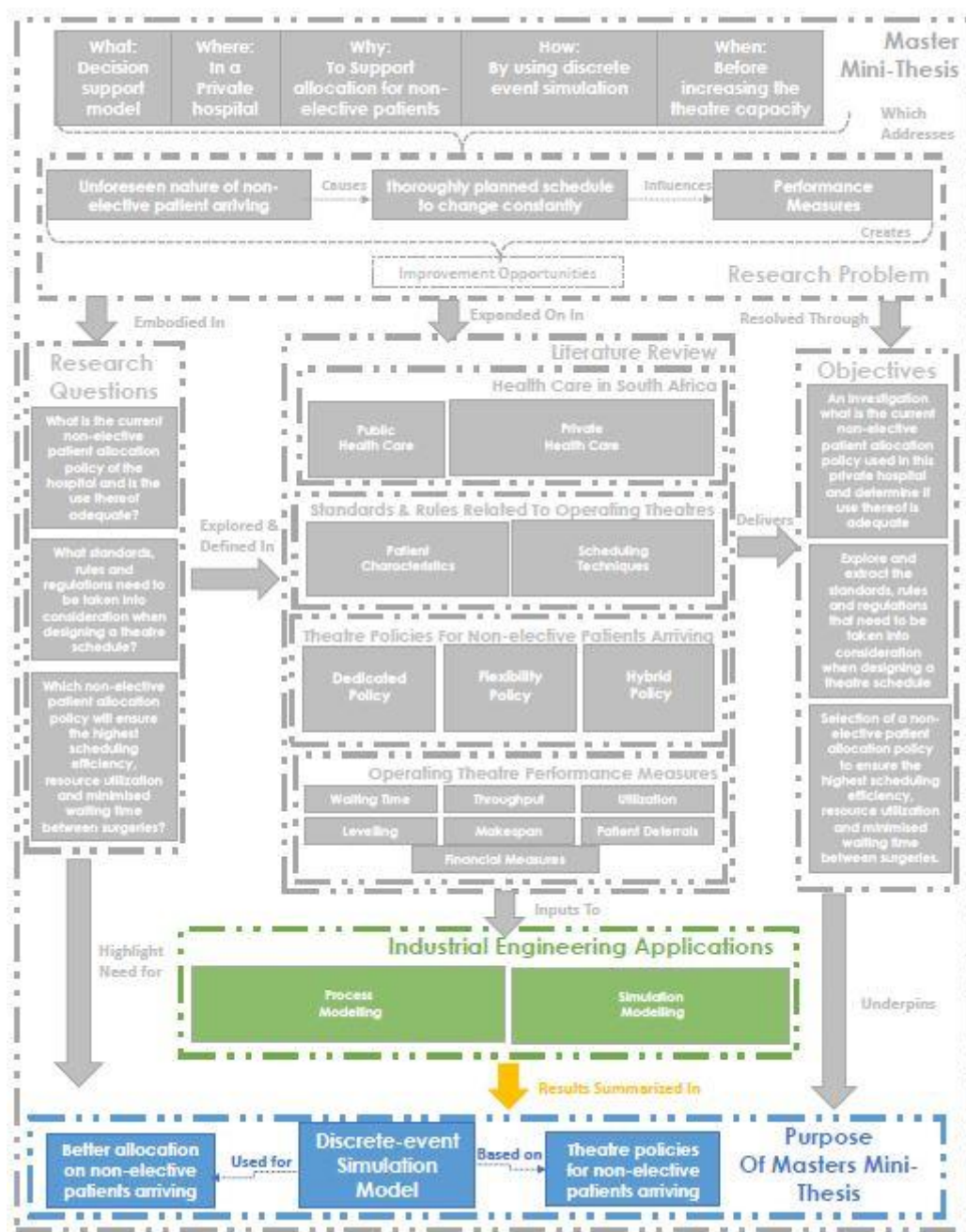


Figure 11: Visualized research framework – Chapter 4

4.2. Design Requirements

4.2.1. Boundaries

The system that was simulated is the operating theatres of a private hospital. This private hospital currently has four operating theatres. To enable the researcher to formulate the boundaries for this simulation model, it can be assumed that:

- ❖ Patients leave the operating theatre directly after their surgery has been completed, no post-operation processes are taken into consideration with this simulation model due to the fact that it doesn't form part of the operating theatre and information regarding this is not collected.

Thus, it can be defined that the boundaries of the simulation model are restricted to the flow of patients through the operating theatre.

4.2.2. Operating and Functional Specifications and Assumptions

(i) Source

When the simulation starts, it can be assumed that the system is empty. Flow items (patients) are then developed at the source upon arrival. Patients will move through the system and exit when they reach the end of the system. As soon as the last patient exits, the simulation will stop.

As soon as patients are developed and enter the system, certain attributes are assigned to them. According to the attributes that are assigned to patients, they will enter the system and follow different paths through the system.

For simulation model 1-3, elective patients arrive according to a pre-defined arrival schedule roughly 30 minutes prior to their scheduled surgery. Therefore, it can be assumed that all patients have an average waiting time of 30 minutes before they receive their scheduled surgery. No other waiting times are taken into consideration because their arrival time at the hospital is not captured in the theatre's information system. The theatre only captures the time the surgery starts and is completed, and patients are then billed according to this exact time.

For simulation model 1, the pre-defined arrival schedule is determined from historical data provided by the hospital as discussed in **Section 4.2.3**. The reason for using the historical data for simulation model 1 to simulate the flexibility policy is that it enables the researcher to develop a simulation model that accurately depicts the real-life scenario. This model can be verified and used as a base case to construct the other simulation models. Non-elective patients also arrive according to a pre-defined arrival schedule that was determined from historical data provided by the hospital as discussed in **Section 4.2.3**.

Using simulation model 1 as base case model, certain assumptions for simulation model 2-3 with was made regard to elective and non-elective patients arriving.

For the purpose of this simulation model it is assumed that:

- ❖ All patients arrive for their surgeries, therefore there are no no-shows.
- ❖ Patients always arrive on time for surgeries, therefore they are never late.
- ❖ Elective and non-elective patients (urgent & emergent) surgeries that take place after the operational time of the operating theatres are not taken into consideration in the simulation model. For details on the operational time of the operating theatre, refer to **Section 4.2.8**.

The patients entering the system are divided into the following types:

- ❖ **Elective patients:** As discussed in **Section 2.3.1 (a)**, elective patients are patients whose surgeries can be planned and scheduled well in advance.
- ❖ **Non-elective patients:** As discussed in **Section 2.3.1 (b)**, non-elective patients are patients whose surgeries cannot be planned or scheduled well in advance due to the emergent and unforeseen nature of the surgeries. Here both urgent and emergent patients arriving are taken into consideration. The characteristics of urgent and emergent patients are discussed in **Section 2.3.1**.

As shown in **Figure 12**, elective and non-elective patients are further divided into the following categories:

- ❖ **Category 1:** General surgery
- ❖ **Category 2:** Orthopaedic surgery
- ❖ **Category 3:** Obstetrics and gynaecology
- ❖ **Category 4:** Urology
- ❖ **Category 5:** Ear, nose and throat

(ii) Queue

In **Section 4.2.7 (i)**, it is explained that as the patients arrive they enter the queue. The queue they entered corresponded to the specific operating theatre to which they were allocated. Patients stay in the queue until the operating theatre they were allocated to was no longer occupied and operational. It can be assume that all patients have an average waiting time of 30 minutes before they receive their scheduled surgery. The reason for this assumption is also discussed in **Section 4.2.7**.

(iii) Processor

With regard to the different simulation models, the operating theatre allocation are as follows to simulate the different policies for the arrival of non-elective patients:

Flexibility policy (Model 1): With a flexibility policy all surgeries, both elective and non-elective, are grouped together and as discussed in **Section 4.2.1**, the hospital currently has four operating theatres. The simulation model representing the flexibility policy used all four operating theatres for both elective and non-elective patients.

The hospital makes use of the scheduling method known as block scheduling. Block scheduling means that slots are allocated to a surgeon or surgical group as per availability (Albert *et al.*, 2006) as discussed in **Section 2.3.2**, when using this method, blocks are allocated to both surgical groups and surgeons and the schedule is repeated weekly. To keep surgeons' details confidential, **Figure 12** only indicates the surgical groups and their allocated blocks in the operating theatre schedule.

DAY	THEATRE 1			THEATRE 2			THEATRE 3			THEATRE 4		
TIME	07:00	13:00	16:00	07:00	13:00	16:00	07:00	13:00	16:00	07:00	13:00	16:00
	13:00	16:00	19:00	13:00	16:00	19:00	13:00	16:00	19:00	13:00	16:00	19:00
MONDAY	General Surgery			General Surgery			Orthopedic Surgery	Obstetrics and Gynaecology		Orthopedic Surgery		
TUESDAY	Orthopedic Surgery			General Surgery			Obstetrics and Gynaecology	Urology		Orthopedic Surgery		
WEDNESDAY	General Surgery			General Surgery				Orthopedic Surgery		General Surgery		
THURSDAY	Urology			General Surgery				Orthopedic Surgery		Orthopedic Surgery		
FRIDAY	Ear, Nose and Throat			General Surgery			Obstetrics and Gynaecology			Orthopedic Surgery		

Figure 12: Theatre Block Schedule (flexibility policy)

This schedule forms the general guidelines for compiling weekly schedules. Surgeons and surgical groups try to keep to their allocated blocks as far as possible. With this hospital using the flexibility policy, non-elective patients are sent to the first available theatre upon arrival. There are no dedicated theatres for non-elective patients. Therefore, white spaces in the schedule help to accommodate non-elective patients and in many cases surgeons or surgical groups do not always use their blocks or utilize the entire block allocated to them. This is therefore used to accommodate non-elective patients.

All four of the existing theatres are equipped to handle surgeries of category 1 – 5. This is important to take into consideration for the allocation of elective and non-elective patients to operating theatres in the simulation model. If there had been restrictions, it will have to be taken into consideration when building the simulation model to accurately depict the real-life scenario of the operating theatre.

Dedicated policy (Model 2): In this policy the operating theatres are dedicated to serve specific categories of patients. As discussed in **Section 4.2.1**, the hospital currently has four operating theatres. The simulation model representing the dedicated policy dedicated one operating theatre to the arrival of non-elective patients and three operating theatres to elective patients.

In the simulation model operating theatres 1, 3 & 4 is dedicated to elective patients and operating theatre 2 to non-elective patients. It is assumed that for this simulation model the hospital was using the scheduling method known as block scheduling.

The block that was allocated to surgical groups in operating theatre 2 was divided into the white spaces observed in **Figure 12**. The theatre block schedule used for simulation model 2, simulating the dedicated policy, is shown in **Figure 13**. By making this assumption and dedicating operating theatre 2 to non-elective patients, it is clear that 21 hours allocated to general surgery is lost.

In this simulation model it is important to take note that all four of the existing theatres are equipped to handle surgeries of category 1 – 5.

DAY	THEATRE 1			THEATRE 2			THEATRE 3			THEATRE 4		
TIME	07:00	13:00	16:00	07:00	13:00	16:00	07:00	13:00	16:00	07:00	13:00	16:00
	13:00	16:00	19:00	13:00	16:00	19:00	13:00	16:00	19:00	13:00	16:00	19:00
MONDAY	General Surgery						Orthopedic Surgery	Obstetrics and Gynaecology		Orthopedic Surgery		
TUESDAY	Orthopedic Surgery		General Surgery				Obstetrics and Gynaecology	Urology		Orthopedic Surgery		
WEDNESDAY	General Surgery						General Surgery	Orthopedic Surgery		General Surgery		
THURSDAY	Urology						General Surgery	Orthopedic Surgery		Orthopedic Surgery		
FRIDAY	Ear, Nose and Throat	General Surgery					Obstetrics and Gynaecology	General Surgery		Orthopedic Surgery	General Surgery	

Figure 13: Theatre Block Schedule (dedicated policy)

Hybrid policy (Model 3): The hybrid policy is a policy that consists of a combination of characteristics from the flexibility policy and the dedicated policy. Applying the dedicated policy to one of the operating theatres by dedicating 1 operating theatre to elective patients and applying the flexibility policy to the other 3 operating theatres, using them for both elective and non-elective patients.

In the simulation model the flexibility policy was used for operating theatre 1, 3 & 4 therefore used for both elective and non-elective patients. Operating theatre 2 was dedicated to elective patients and to general surgeries only. It is assumed that for this simulation model the hospital used the scheduling method known as block scheduling.

The same allocated blocks in the operating theatre schedule used for the flexibility policy were used here. Refer to **Figure 12**. The only difference is that no non-elective patients were sent to operating theatre 2.

In this simulation model it is important to take note that all four of the existing theatres are equipped to handle surgeries of category 1 – 5.

4.2.3. Models Required

The following models were required to depict the different allocation policies for the arrival of non-elective patients arriving:

- ❖ **Model 1:** Simulation of the flexibility policy
- ❖ **Model 2:** Simulation of the dedicated policy
- ❖ **Model 3:** Simulation of the hybrid policy

The simulation software that was used in this research is FlexSim 2017. It is important to note that the fundamental solutions of algorithms within the simulation model doesn't fall within the scope of this research.

4.2.4. Data Required for the Simulation Model

The data used to build this simulation model had been directly retrieved from the hospital's information centre. The hospital information centre is used to capture all the patients' information. Due to the fact that patients' information is kept confidential, the researcher was not able to access the information themselves. The HOD accessed the data and data for the month of July (1 July – 31 July) was provided. The researcher was provided the following information on the theatre schedule:

- ❖ Physician specialities and surgical groups
- ❖ Theatre used
- ❖ Starting time of the operation
- ❖ Finishing time of the operation
- ❖ Elective or non-elective surgery

The researcher then took all of the data that was received and compiled all of the information in Microsoft Excel, this data is available in **Appendix F**. The operating theatre information is presented as follow:

- ❖ **Column 1 [Physician Specialities]:** Indicates the surgical group, as discussed in **Section 4.2.6**, that an operating theatre is allocated to.
- ❖ **Column 2 [Block]:** Indicates the start of the timeslot that an operating theatre is allocated to the surgical group.

- ❖ **Column 3 [Block]:** Indicates the end of the timeslot that an operating theatre is allocated to the surgical group.
- ❖ **Column 4 [Physician Specialities]:** Indicates the actual surgical groups that performed surgeries within this timeslot of the operating theatre schedule. It is important to note that this part was included due to the fact that the other surgical groups may perform surgeries in a timeslot allocated to a different surgical group.
- ❖ **Column 5 [Theatre]:** Indicates the theatre in which the surgery is performed.
- ❖ **Column 6 [Date]:** Indicates the date on which the surgery is performed
- ❖ **Column 7 [Day of the Week]:** Indicates the day of the week on which the surgery is performed
- ❖ **Column 8 [Type]:** Indicates the reference number of the patients. This is to ensure that patient data for patient 1 correlates to patient 1 within the simulation model. This is for referencing purposes only and do not have an influence on the research results.
- ❖ **Column 9 [Patient ID]:** Indicates the patients ID, in depth detail with regards to this is discussed in **Section 4.4.1**. This is for referencing purposes only and do not have an influence on the research results.
- ❖ **Column 10 [Start]:** Indicates the start time of a surgery. The time is presented in a 24-hour format.
- ❖ **Column 11 [Minutes]:** Indicates the start time of a surgery. The time is presented in minutes, this is used as the input data for the model the reason being that the time unit in the simulation is set to minutes. The time in minutes was calculated by the build in Excel function that convert time from a 24-hour format to minutes. It is important to take note that the simulation starts at 0 minutes, 07:00:00 in the 24-hour format for day 1, 1440 minutes, and 07:00 in the 24-hour format for day 2 and continues to add 1440 minutes to the starting point of the next day.
- ❖ **Column 12 [End]:** Indicates the end time of a surgery. The time is presented in a 24-hour format.
- ❖ **Column 13 [Minutes]:** Indicates the end time of a surgery. The time is presented in minutes, this is used as the input data for the model the reason being that the time unit in the simulation is set to minutes. The time in minutes was calculated by the build in Excel function that convert time from a 24-hour format to minutes.
- ❖ **Column 14 [Duration]:** Indicates the duration of a surgery. The time is presented in a 24-hour format.
- ❖ **Column 15 [Minutes]:** Indicates the duration of a surgery. The time is presented in minutes, this is used as the input data for the model the reason being that the time unit in the simulation is set to minutes. The time in minutes was calculated by the build in Excel function that convert time from a 24-hour format to minutes.

- ❖ **Column 16 [Elective/Non-Elective]:** Indicates whether a surgery is an elective or non-elective surgery.
- ❖ **Column 17 [IN/OUT of use]:** Indicates whether the operating theatre is occupied or not.

For the dedicated policy and the hybrid policy additional columns were added to the information in Microsoft Excel, the additional columns are as follow

- ❖ **Column A1 [Moved From]:** Indicates the theatre in which the surgery was originally performed before the policy was implemented and moved to another operating theatre.
- ❖ **Column A2 [Time Delay]:** Indicates whether a time delay was caused when the policy was implemented and the surgery had to be moved to another operating theatre.
- ❖ **Column A3 [Overtime]:** Indicates whether overtime was caused when the policy was implemented and the surgery had to be moved to another operating theatre.
- ❖ **Column A4 [Delay - Minutes]:** Indicates the time delay that was caused when the policy was implemented and the surgery had to be moved to another operating theatre.

After the data was received and compiled in Excel the simulation model was built as explained further throughout the study. It is important to note that daily datasets were inserted into the simulation package and the results were then verified in order to determine whether this simulation model will be able to process the data and deliver accurate results. The simulation model adds value by providing a visual representation of the process and the results that can be understood on different levels of employment within a hospital. This addresses objective 3 of the study.

4.2.5. Dynamic and Static Elements within the Simulation Model

Flow items are the dynamic elements that are developed at the source of a static element within the simulation model. They also move through different fixed resources, also static elements within the simulation model, and are finally terminated at the static element, known as the sink within the simulation model. The different elements that are used in the simulation are as follow:

Table 13: Dynamic and static elements within the simulation model

Simulation entities	Purpose of element within the simulation model	Static / dynamic
Flow Items	Patients (Elective & Non-elective)	Static Element
Source	Where flow items (patients) are developed upon arrival	Dynamic Element
Queue	The queue is where flow items (patients) will wait to be processed by the processor (operating theatre)	Dynamic Element

Processor	The processor is the operating theatre where flow items (patients) will be processed	Dynamic Element
Sink	The sink is where the flow items (patients) are terminated	Dynamic Element

Flow items in the simulation model have different characteristics to represent the different types of elective and non-elective patients entering the operating theatres.

4.2.6. Performance Measures

The following performance measure are relevant for comparing the results of the different simulation models, representing the different theatre allocation policies for non-elective patients, to the theoretical calculated utilization:

- ❖ **Daily Utilization:** In the context of this study, utilization measures the time that an operating theatre is used against the time that the operating theatre is indicated available as discussed in **Section 2.5.3**. The theoretical daily utilization is calculated in Excel from the data in **Appendix F**.
- ❖ **Cumulative Utilization:** In the context of this study, cumulative utilization measures the time that an operating theatre is used against the time that the operating theatre is indicated available throughout the duration of the time taking into consideration adding each day as a new addition. The theoretical cumulative utilization is calculated in Excel from the data in **Appendix F**.

4.2.7. Runtime Parameter

The simulation model simulated the operational time of the theatre for a period of one month. The operational time of the theatre is 7AM until 7PM. Any surgeries scheduled after this time was assumed to be overtime and non-elective surgeries. The simulation model did not include overtime due to the complexity of overtime costing, even though it is indicated in the data in **Appendix F**. This was done to determine the utilization for the different allocation policies for non-elective patients during the operational time of the operating theatre only. Surgeries scheduled over weekends were also not taken into consideration as it is also seen as overtime. This data is not included in the data in **Appendix F**. The time unit used for the simulation model is set to minutes, so it is important to note that the performance measures indicated in the simulation model are also represented in minutes.

4.3. Conceptual Models

4.3.1. Flexibility Policy

(i) Object flow diagram

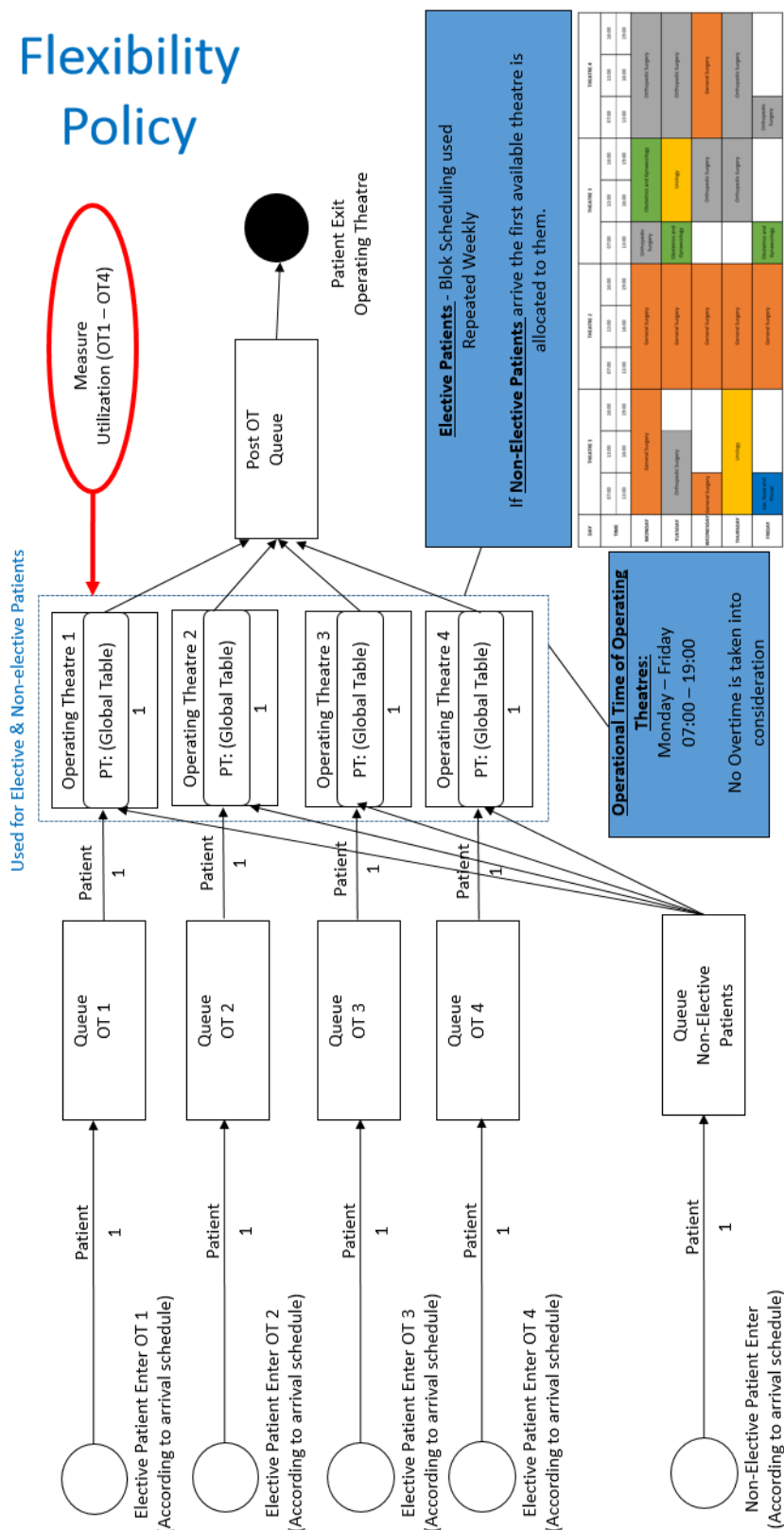


Figure 14: Object flow diagram (flexibility policy)

(ii) Detailed Process and Detailed Sub-Process (flexibility policy)

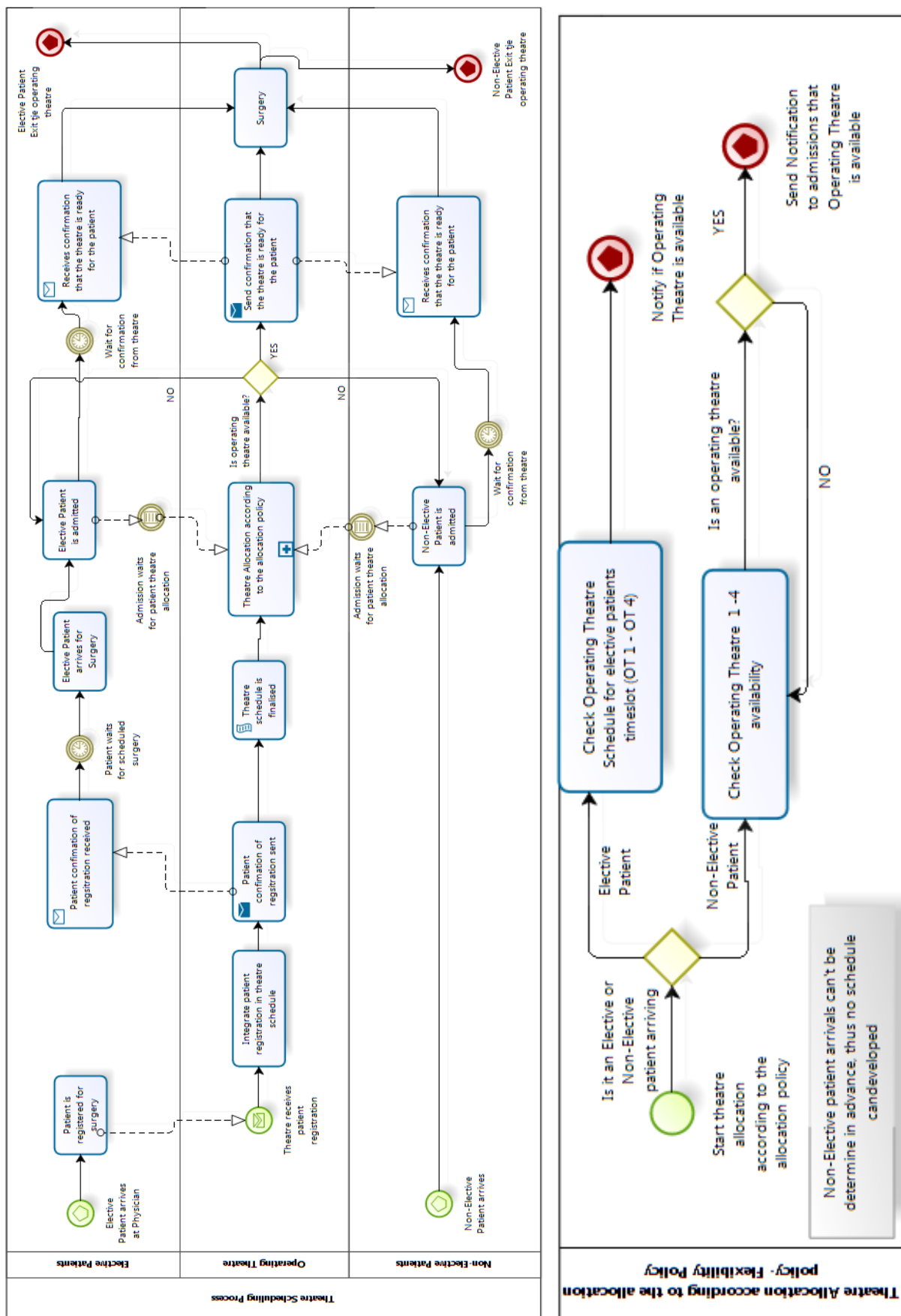


Figure 15: Detailed Process (Operating Theatres) and Detailed Sub-Process (flexibility policy)

4.3.2. Dedicated Policy

(i) Object flow diagram

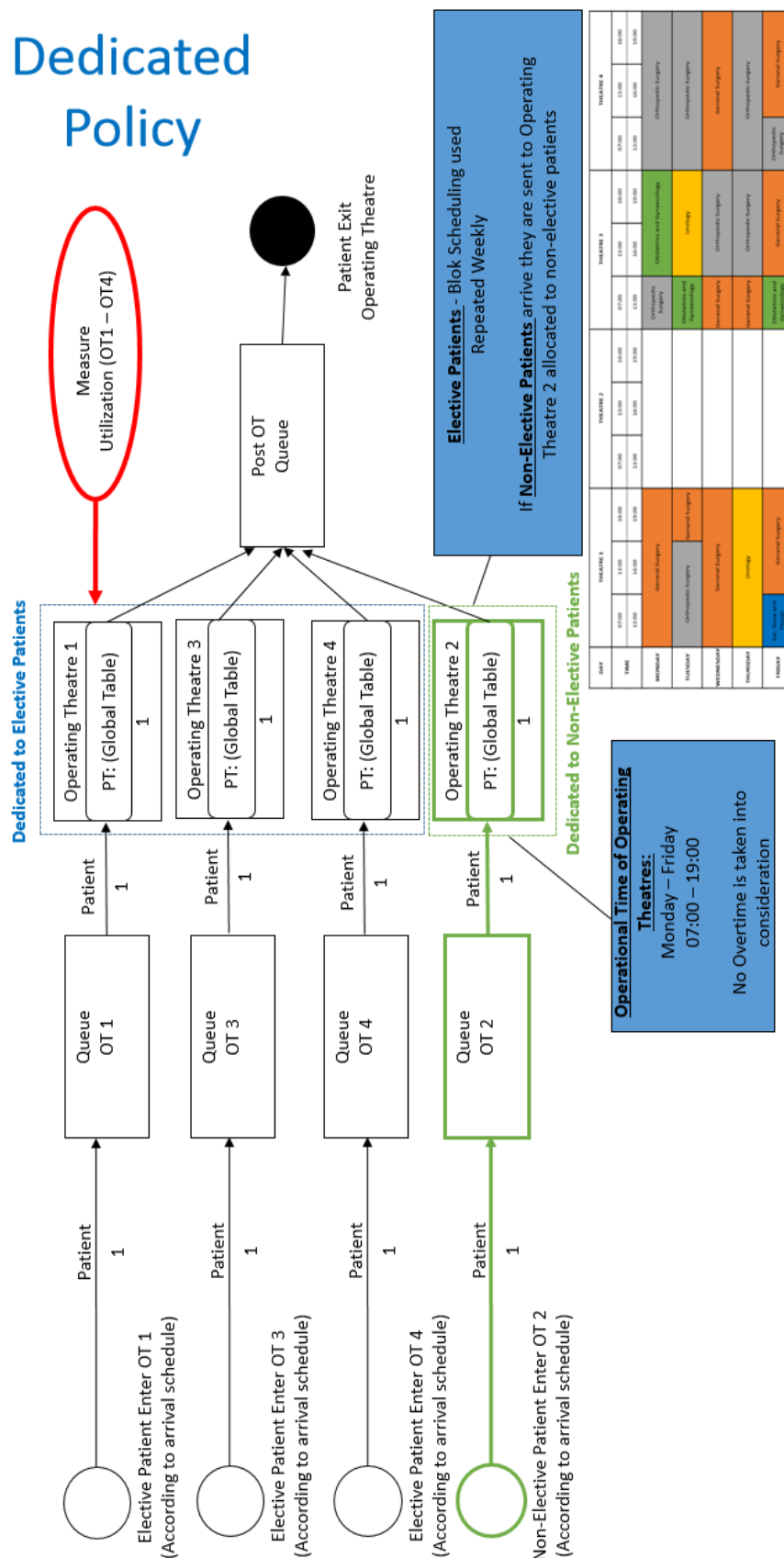


Figure 16: Object flow diagram (dedicated policy)

(ii) Detailed Process and Detailed Sub-Process (dedicated policy)

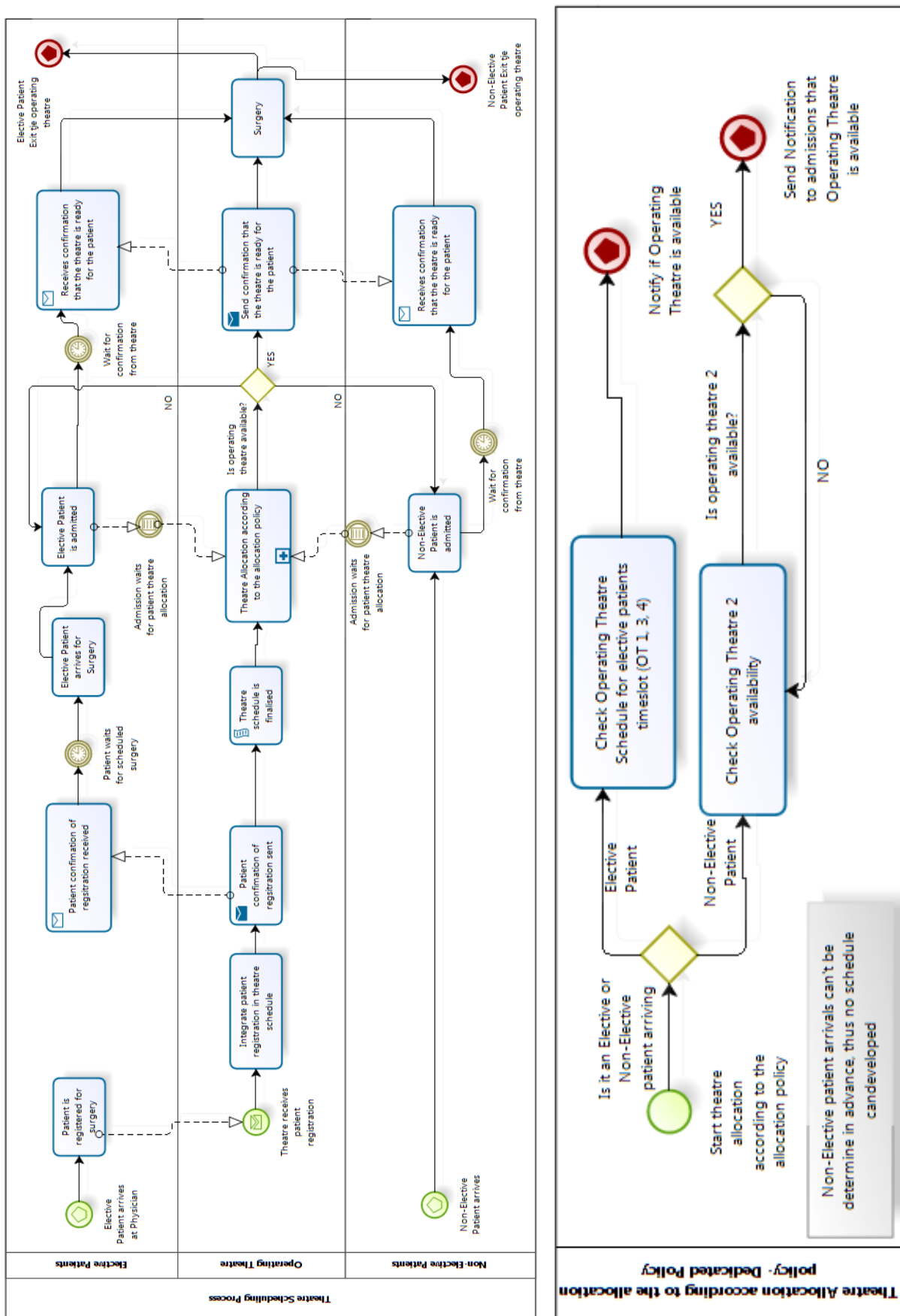


Figure 17: Detailed Process (Operating Theatres) and Detailed Sub-Process (dedicated policy)

4.3.3. Hybrid Policy

(i) Object flow diagram

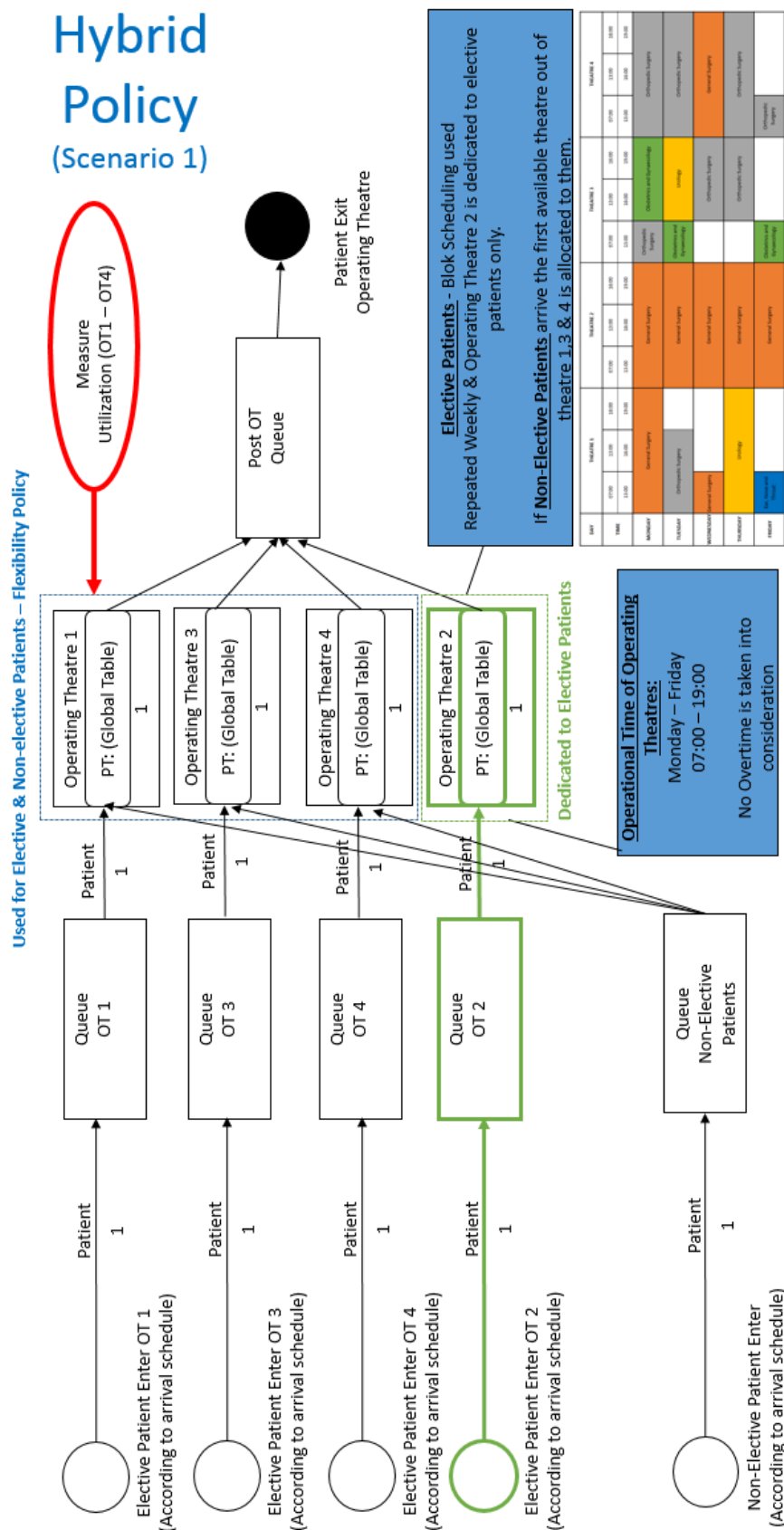


Figure 18: Object flow diagram (hybrid policy)

4.4. Simulation Models

Section 4.2 discussed the design requirements and **Section 4.3** the conceptual models. This section discusses the development of the final models. The simulation models represent a private hospital consisting of four operating theatres. No pre- or post-operation processes were taken into consideration. As discussed in **Section 4.2.3**, the simulation model was built based on historical data received from the hospital. The data for the month of July (1 July – 31 July) were used. As mentioned in section 4.2.7 overtime and weekends were excluded from the simulation models. The data that had been received were compiled in Microsoft Excel. Refer to **Section 4.2.3** and **Appendix F** for more detail regarding the data.

The data that were compiled in Microsoft Excel were then copied into the simulation models' global tables as discussed in **Section 4.4.1 (i)** and **4.4.1 (iii)**. The simulation model is set up in such a way that new data can be copied into the model and with minor changes you will be able to obtain results.

The following models are discussed in this section:

- ❖ Model 1 – Flexibility policy (**Section 4.4.1**)
- ❖ Model 2 – Dedicated policy (**Section 4.4.2**)
- ❖ Model 3 – Hybrid Policy (**Section 4.4.3**)

4.4.1. Flexibility Policy

In this section more information is provided on the flexibility policy simulation model. Simulation model 1 (flexibility policy) was used as base case to develop a simulation model that accurately depicts the real-life scenario.

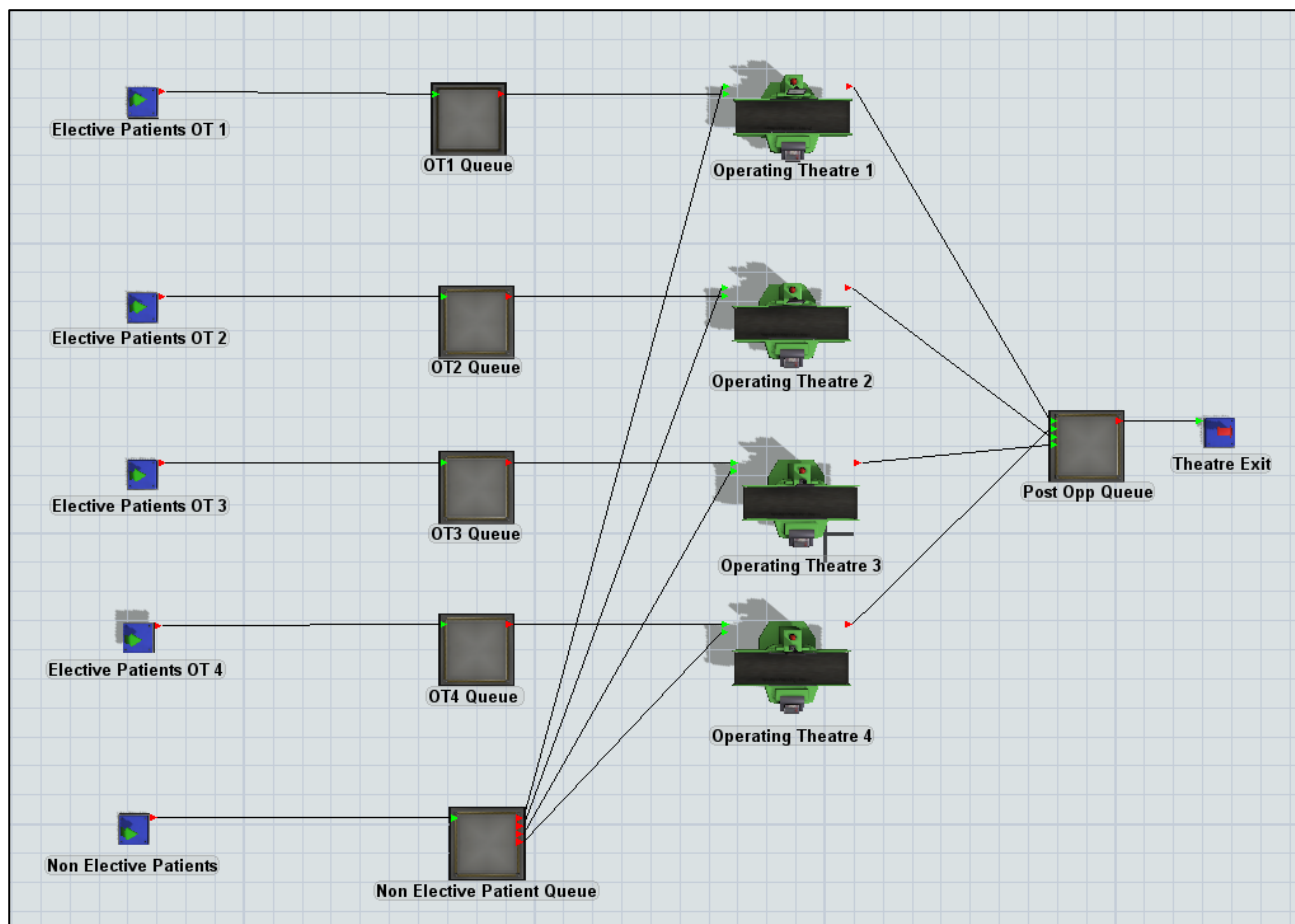


Figure 19: Simulation Elements used for the flexibility policy

(i) Source

As discussed in **Section 4.2.6**, flow items, in this case the patients, are developed at the source upon arrival. Patients arrived according to a pre-defined arrival schedule determined from historical data. When patients are developed upon their arrival at the source, certain attributes are assigned to them. For the flexibility policy simulation model, five sources were used as shown in **Figure 19**. Each theatre was allocated a source for the arrival of elective patients and a separate source was allocated to the arrival of non-elective patients as discussed in **Table 14**. Elective patients could be allocated to a specific source because elective surgeries can be scheduled well in advance. On the other hand, non-elective surgeries cannot be planned well in advance and therefore a separate source was allocated to the arrival of non-elective patients.

Table 14: Simulation Model - Source

Element	Icon	Elements in the model	Function of elements in the model
Source		Source_Elective Patients OT1	Creates flow items (elective patients) upon arrival at operating theatre 1 according to a pre-defined arrival schedule.
		Source_Elective Patients OT2	Creates flow items (elective patients) upon arrival at operating theatre 2 according to a pre-defined arrival schedule.

		Source_Elective Patients OT3	Creates flow items (elective patients) upon arrival at operating theatre 3 according to a pre-defined arrival schedule.
		Source_Elective Patients OT4	Creates flow items (elective patients) upon arrival at operating theatre 4 according to a pre-defined arrival schedule.
		Source_Non Elective Patients	Creates flow items (non-elective patients) upon the arrival.

Properties had to be assigned to each of the five sources used. All of them were assigned in a similar fashion and therefore only the properties of one is explained. For each source the arrival style and the flow item class has to be assigned. As shown in **Figure 20**, the arrival style that was selected is arrival schedule and the flow item class that was selected is a person. Because arrival schedule was selected, an arrival schedule had to be entered. This was copied from the global table. Each operating theatre has a global table for the arrival of elective patients, and non-elective patients has a separate global table. The following global tables were constructed in the simulation model:

- ❖ OR 1 (Global Table Operating Theatre 1)
- ❖ OR 2 (Global Table Operating Theatre 2)
- ❖ OR 3 (Global Table Operating Theatre 3)
- ❖ OR 4 (Global Table Operating Theatre 4)
- ❖ Non-Elective Patients (Global Table for Non-Elective Patients)

These tables contain all of the important data required in the simulation model and were copied from the Microsoft Excel data as discussed in **Section 4.2.2**. A separate global table was created for non-elective patients, the reason for this was that when the arrival schedule is entered into the source properties, it is important to note that the arrival should be ordered from first to last arrivals. Non-elective patients arrive for different theatres and therefore the global table are used to sort the data accordingly. As shown in **Figure 20**, the data that were entered in the arrival schedules were the arrival time, item name (referred to as patient ID in the Excel data files), quantity and the type. The arrival time indicates the time a patient arrives in minutes. The model starts on Monday 2 July at 07:00, the simulation will start at 0 minutes. The item names indicate the unique name that was given to each patients. The item name for each patient consist of the following information:

0507T1E1 – Indicates the day of the month the surgery took place.

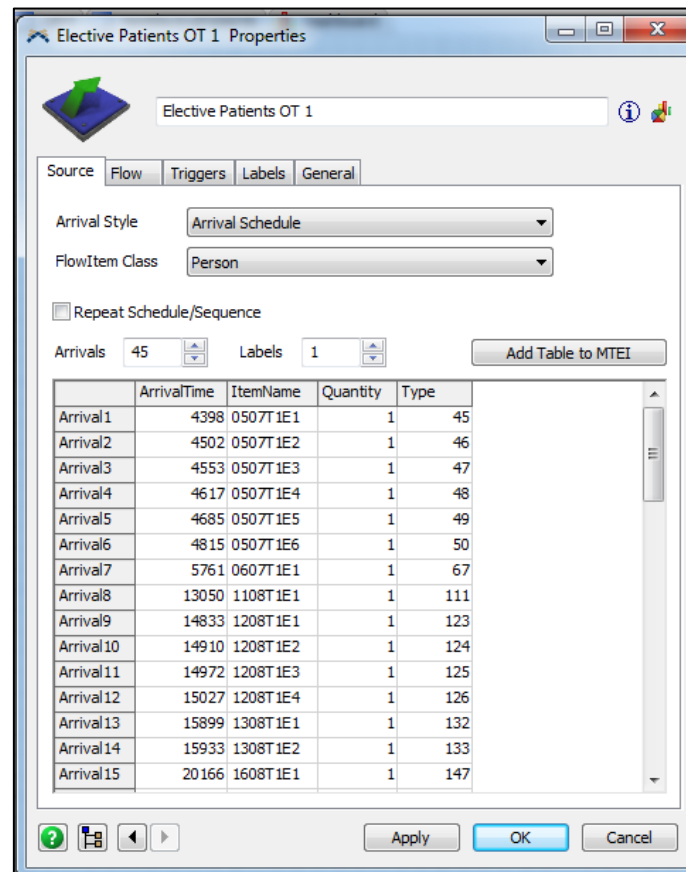
0507T1E1 – Indicates the month the surgery took place.

0507T1E1 – Indicates the theatre the surgery takes place in.

0507T1E1 – Indicates that it is an elective surgery

0507T1NE1 – Indicates that it is a non-elective surgery

The quantity indicates that one of each patient is arriving. Patients are handled individually due to the different arrival times and processing times. The type indicates the unique ID that was given to each patient. This unique ID enables help to track patients throughout the simulation model. The unique ID that was given to patients are the same in the Flexibility policy data (Excel File) and the flexibility policy simulation model (Flexim File)



	ArrivalTime	ItemName	Quantity	Type
Arrival1	4398	0507T1E1	1	45
Arrival2	4502	0507T1E2	1	46
Arrival3	4553	0507T1E3	1	47
Arrival4	4617	0507T1E4	1	48
Arrival5	4685	0507T1E5	1	49
Arrival6	4815	0507T1E6	1	50
Arrival7	5761	0607T1E1	1	67
Arrival8	13050	1108T1E1	1	111
Arrival9	14833	1208T1E1	1	123
Arrival10	14910	1208T1E2	1	124
Arrival11	14972	1208T1E3	1	125
Arrival12	15027	1208T1E4	1	126
Arrival13	15899	1308T1E1	1	132
Arrival14	15933	1308T1E2	1	133
Arrival15	20166	1608T1E1	1	147

Figure 20: Source Properties

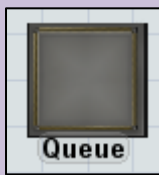
After the arrival of the patients, they move to a queue as discussed in **Section 4.4.1 (ii)**.

(ii) Queue

After flow items (patients) are developed upon their arrival, the source they enter queue as discussed in **Section 4.4.1. (i)**. They enter the queue for the specific operating theatre to which they are allocated. Patients stay in the queue until the operating theatre they are allocated to is no longer occupied and operational. As discussed in **Section 4.2.6** for simulation model 1-3, elective patients arrive according to a pre-defined arrival schedule roughly 30 minutes prior to their scheduled surgery. Therefore, it can assume that all patients have an average waiting time of 30 minutes before they receive their scheduled surgery. This is not included in the simulation model because this does not

influence the results. Thus five queues were used in the simulation model as shown in **Figure 19**. Each theatre was allocated a queue for the arrival of elective patients and a separate queue was allocated to non-elective patients as discussed in **Table 15**. The post-op queue is for patients exiting the system.

Table 15: Simulation Model - Queue

Element	Icon	Elements in the model	Function of elements in the model
Queue		Queue_OT1	Elective patients allocated to operating theatre 1 enter the queue for operating theatre 1.
		Queue_OT2	Elective patients allocated to operating theatre 2 enter the queue for operating theatre 2.
		Queue_OT3	Elective patients allocated to operating theatre 3 enter the queue for operating theatre 3.
		Queue_OT4	Elective patients allocated to operating theatre 4 enter the queue for operating theatre 4.
		Queue_Non-Elective Patients	Non-elective patients queue up here and be allocated to the applicable operating theatres from here.
		Queue Post-Op	Patients exiting the system queue up in this queue.

Queue_OT 1 – Queue_OT4 and Queue_Post-Op used the default properties of the simulation model. Therefore properties only had to be assigned to the Queue_Non-Elective Patients. All non-elective patients queued in the Queue_Non-Elective Patients. From this queue patients had to be allocated to the applicable theatres. This can be done by changing the flow properties as shown in **Figure 21**. Here patients could be sent to applicable operating theatres by assigning each case to a specific port. **Figure 19** indicates that Queue_Non-Elective Patients was connected to each operating theatre, making porting possible. **Figure 21** indicates the different ports. The ports are as follows:

- ❖ Port 1 – Operating Theatre 1
- ❖ Port 2 – Operating Theatre 2
- ❖ Port 3 – Operating Theatre 3
- ❖ Port 4 – Operating Theatre 4

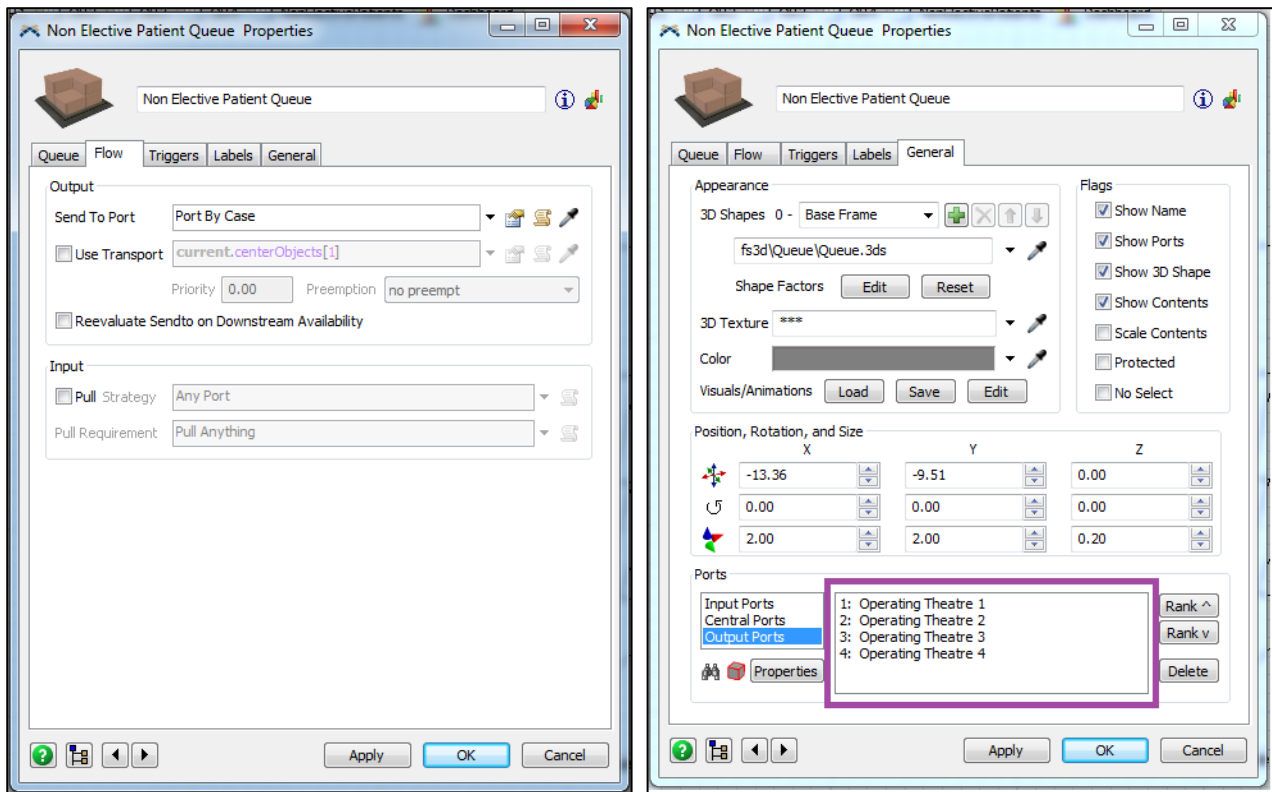


Figure 21: Queue Properties Queue_NE Patients

The unique ID that was assigned to each patient as discussed in **Section 4.4.1. (i)** was used to port a patient to the applicable operating theatre. The code in **Appendix C (i)** was used to assign each case.

case /**\nCase: */**/33/**/: return /** Port: */**/1/**/; - This indicates the unique ID that was allocated to the patient, in this case the unique ID is 33.

case /**\nCase: */**/33/**/: return /** Port: */**/1/**/; - This indicates the port the patient is sent to, in this case the patients is ported to port 1 – Operating Theatre 1.

After a patient arrived at the queue of an operating theatre, they moved to the processor as discussed in **Section 4.4.1 (iii)**.

(iii) Processor

With a flexibility policy all surgeries, both elective and non-elective, are grouped together as discussed in **Section 4.2.1**. The simulation model representing the flexibility policy will use all four operating theatres for both elective and non-elective patients as discussed in **Table 16**. There are no dedicated theatres for non-elective patients. The hospital makes use of the scheduling method known as block scheduling. This hospital block are allocated to both surgical groups and surgeons and the schedule is repeated weekly. **Figure 12** indicates the surgical groups and their allocated blocks within the operating theatre schedule. With this hospital using the flexibility policy, non-elective patients are sent to the first available theatre upon arrival. Therefore, white spaces within the schedule help to accommodate non-elective patients arriving and in many cases surgeons or

surgical groups do not use their blocks or utilize the entire block allocated to them and this is therefore also used to accommodate non-elective patients.

All four of the existing theatres are equipped to handle surgeries of category 1 – 5 as discussed in **Section 4.2.6**. Thus 4 processors were used in the simulation model as shown in **Figure 19** to represent each operating theatre.

Table 16: Simulation Model - Processor

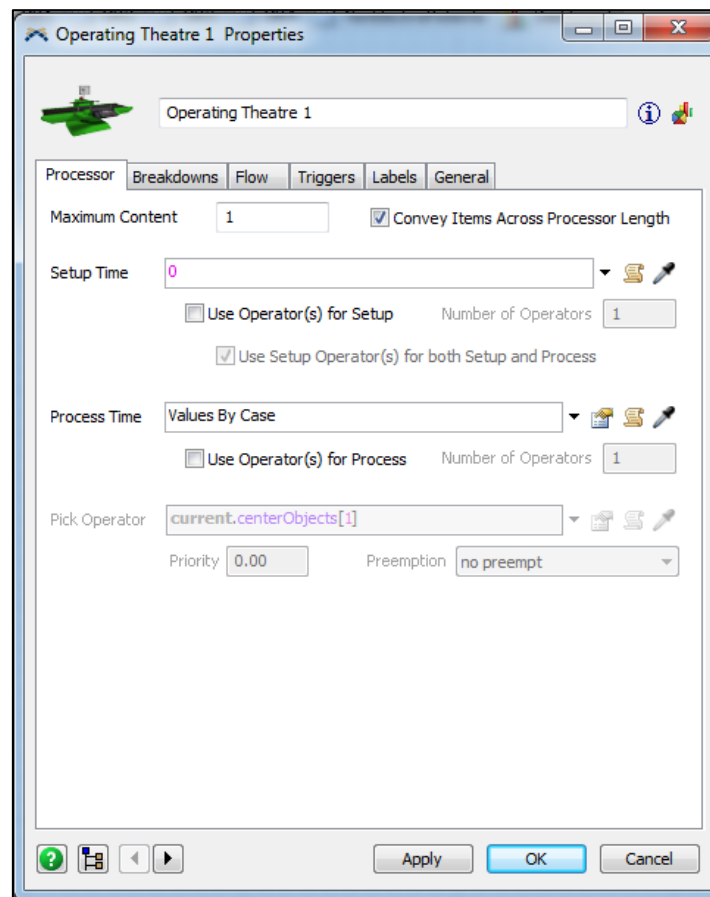
Element	Icon	Elements in the model	Function of elements in the model
Processor		Processor_Operating Theatre 1	Elective and non-elective patients allocated to operating theatre 1 are processed here.
		Processor_Operating Theatre 2	Elective and non-elective patients allocated to operating theatre 2 are processed here.
		Processor_Operating Theatre 3	Elective and non-elective patients allocated to operating theatre 3 are processed here.
		Processor_Operating Theatre 4	Elective and non-elective patients allocated to operating theatre 4 are processed here.

Properties had to be assigned to each of the four processors that were used. All of them were assigned in a similar fashion and therefore only the properties of one is explained. For each processor this was done by changing the process time properties as shown in **Figure 22**. The unique ID that was assigned to each patient as discussed in **Section 4.4.1 (i)** was used to allocate the process time for each patient. The code in **Appendix C (ii - v)** was used to assign the process time to each case at the operating theatres.

case /**\nCase: */**/33*/: return /** Time: */**/Table("OR1")[2][12]/**/; - This indicates the unique ID that was allocated to the patient, in this case the unique ID is 33.

case /**\nCase: */**/33*/: return /** Time: */**/Table("OR1")[2][12]/**/; - This indicates that the process time should be read from Global Table 1, row 2, column 12.

The global table as shown in **Figure 23** indicates the data that were compiled in Microsoft Excel and used in the simulation models as discussed in **Section 4.4.1 (i)** and **4.4.1 (iii)**.



Operating Theatre 1 Properties

Operating Theatre 1

Processor Breakdowns Flow Triggers Labels General

Maximum Content 1 ☒ Convey Items Across Processor Length

Setup Time 0 ☐ Use Operator(s) for Setup Number of Operators 1 ☒ Use Setup Operator(s) for both Setup and Process

Process Time Values By Case ☐ Use Operator(s) for Process Number of Operators 1

Pick Operator current.centerObjects[1] Priority 0.00 Preemption no preempt

Apply OK Cancel

Figure 22: Processor Properties

	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
Row 1	General Surgeon	1	02.06.2018	Monday	1	0207T1NE1	18:10:00	670	19:10:00	1150	1:00:00	60	Non-Elective
Row 2	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	33	0407T1NE1	7:00:00	2880	7:56:00	3356	0:56:00	56	Non-Elective
Row 3	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	34	0407T1NE2	8:12:00	2952	9:05:00	3425	0:53:00	53	Non-Elective
Row 4	Urology	1	05.07.2018	Thursday	45	0507T1E1	8:18:00	4398	9:53:00	4913	1:35:00	95	Elective
Row 5	Urology	1	05.07.2018	Thursday	46	0507T1E2	10:02:00	4502	10:48:00	4968	0:46:00	46	Elective
Row 6	Urology	1	05.07.2018	Thursday	47	0507T1E3	10:53:00	4553	11:49:00	5029	0:56:00	56	Elective
Row 7	Urology	1	05.07.2018	Thursday	48	0507T1E4	11:57:00	4617	12:55:00	5095	0:58:00	58	Elective
Row 8	Urology	1	05.07.2018	Thursday	49	0507T1E5	13:05:00	4685	15:03:00	5223	1:58:00	118	Elective
Row 9	Urology	1	05.07.2018	Thursday	50	0507T1E6	15:15:00	4815	15:33:00	5253	0:18:00	18	Elective
Row 10	Urology	1	05.07.2018	Thursday	51	0507T1NE1	16:00:00	4860	16:32:00	5312	0:32:00	32	Non-Elective
Row 11	General Surgeon	1	05.07.2018	Thursday	52	0507T1NE2	16:48:00	4908	17:57:00	5397	1:09:00	69	Non-Elective
Row 12	General Surgeon	1	05.07.2018	Thursday	53	0507T1NE3	18:15:00	4995	18:55:00	5455	0:40:00	40	Non-Elective
Row 13	Ear, Nose and Throat	1	06.07.2018	Friday	67	0607T1E1	7:01:00	5761	7:47:00	6227	0:46:00	46	Elective
Row 14	Ear, Nose and Throat	1	06.07.2018	Friday	68	0607T1E2	14:13:00	6193	14:57:00	6657	0:44:00	44	Non-Elective
Row 15	General Surgeon	1	09.07.2018	Monday	81	0908T1NE1	7:21:00	10101	8:23:00	10163	1:02:00	62	Non-Elective
Row 16	General Surgeon	1	09.07.2018	Monday	82	0908T1NE2	8:32:00	10172	9:19:00	10219	0:47:00	47	Non-Elective
Row 17	General Surgeon	1	09.07.2018	Monday	83	0908T1NE3	9:24:00	10224	9:50:00	10250	0:26:00	26	Non-Elective
Row 18	General Surgeon	1	11.09.2018	Wednesday	111	1108T1E1	8:30:00	13050	10:40:00	13180	2:10:00	130	Elective
Row 19	Urology	1	12.09.2018	Thursday	123	1208T1E1	14:13:00	14833	15:27:00	14907	1:14:00	74	Elective
Row 20	Urology	1	12.09.2018	Thursday	124	1208T1E2	15:30:00	14910	16:25:00	14965	0:55:00	55	Elective
Row 21	Urology	1	12.09.2018	Thursday	125	1208T1E3	16:32:00	14972	17:24:00	15024	0:52:00	52	Elective
Row 22	Urology	1	12.09.2018	Thursday	126	1208T1E4	17:27:00	15027	19:21:00	15141	1:54:00	114	Elective
Row 23	Ear, Nose and Throat	1	12.09.2018	Friday	132	1308T1E1	7:59:00	15899	8:26:00	15926	0:27:00	27	Elective
Row 24	Ear, Nose and Throat	1	12.09.2018	Friday	133	1308T1E2	8:33:00	15933	8:57:00	15957	0:24:00	24	Elective
Row 25	Orthopedic	1	12.09.2018	Friday	134	1308T1NE1	14:40:00	16300	15:05:00	16325	0:25:00	25	Non-Elective
Row 26	Orthopedic	1	12.09.2018	Friday	135	1308T1NE2	15:24:00	16344	18:16:00	16516	2:52:00	172	Non-Elective
Row 27	General Surgeon	1	16.09.2018	Monday	147	1608T1E1	7:06:00	20166	7:52:00	20212	0:46:00	46	Elective
Row 28	General Surgeon	1	16.09.2018	Monday	148	1608T1E2	8:11:00	20231	8:57:00	20277	0:46:00	46	Elective
Row 29	General Surgeon	1	16.09.2018	Monday	149	1608T1E3	9:05:00	20285	11:21:00	20421	2:16:00	136	Elective
Row 30	General Surgeon	1	16.09.2018	Monday	150	1608T1E4	11:35:00	20435	14:53:00	20633	3:18:00	198	Elective
Row 31	General Surgeon	1	16.09.2018	Monday	151	1608T1E5	15:02:00	20642	15:53:00	20693	0:51:00	51	Elective
Row 32	Orthopedic	1	17.09.2018	Tuesday	167	1708T1E1	7:00:00	21600	8:58:00	21718	1:58:00	118	Elective
Row 33	Orthopedic	1	17.09.2018	Tuesday	168	1708T1E2	9:04:00	21724	10:55:00	21835	1:51:00	111	Elective
Row 34	Orthopedic	1	17.09.2018	Tuesday	169	1708T1E3	11:06:00	21846	12:28:00	21928	1:22:00	82	Elective
Row 35	General Surgeon	1	18.09.2018	Wednesday	190	1808T1E1	7:58:00	23098	8:40:00	23140	0:42:00	42	Non-Elective
Row 36	General Surgeon	1	18.09.2018	Wednesday	191	1808T1E2	13:16:00	23416	13:54:00	23454	0:38:00	38	Non-Elective
Row 37	General Surgeon	1	18.09.2018	Wednesday	192	1808T1E3	18:27:00	23727	18:48:00	23748	0:21:00	21	Non-Elective

Figure 23: Global Table Operating Theatre 1

After a patient has completed the processing process, they move to the post-op queue and then to the sink where they exit the system as discussed in **Section 4.4.1 (iv)**.

(iv) Sink

The sink is where patients exit the system as soon as they are done in the operating theatre as discussed in **Table 15**. For the flexibility policy simulation model, the default properties are used for the sink element.

Table 17: Simulation Model - Sink

Element	Icon	Elements in the model	Function of elements in the model
Sink		Sink_Theatre Exit	The sink is where the flow items (patients) are terminated

4.4.2. Dedicated Policy

In this section more in-depth information is provided with regard to the dedicated policy simulation model. Simulation model 1 (flexibility policy) was used as base case to develop a simulation model that accurately depicts the real-life scenario. With simulation model 2 (dedicated policy) certain assumptions were made and a few changes were applied to the base case model in order to determine what the effect of the dedicated policy would be on the allocation of non-elective patients in the operating theatre of this private hospital.

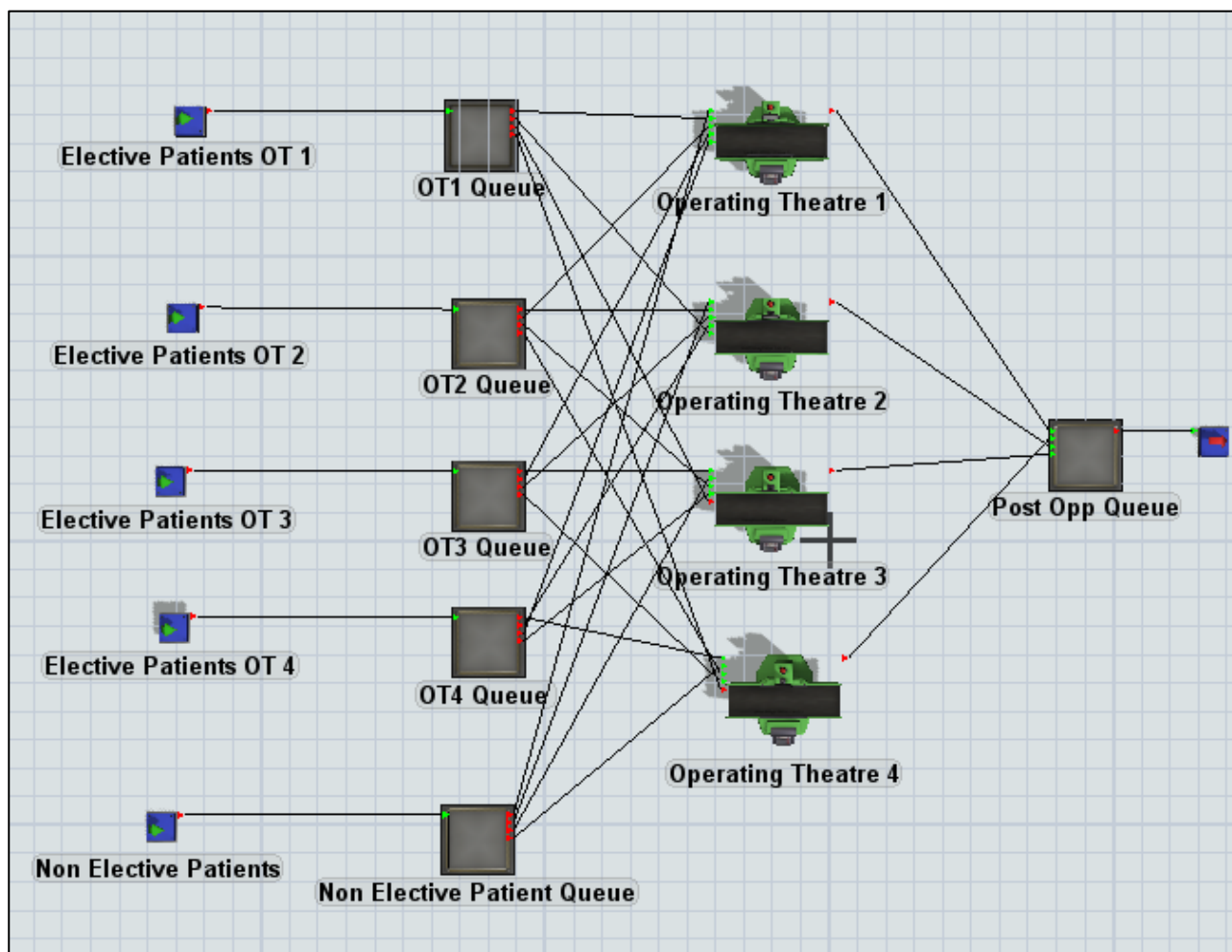


Figure 24: Simulation Elements used for the dedicated policy

(i) Source

For the dedicated policy simulation model, properties are assigned to the source elements exactly the same as for the flexibility policy simulation model. Therefore refer **Section 4.4.1 (i)** for more information on how the properties are assigned. The assumptions as discussed in **Section 4.2.6** were incorporated in the historical data that had been compiled in Microsoft Excel. Refer to **Appendix F** for detail on the data used for the simulation model. The fact that some surgeries had to be moved to other operating theatres resulted in some surgeries being delayed. Refer to **Table 18** to see which surgeries were delayed due to the fact that they had to be moved. These necessary

changes were copied from the data in Microsoft Excel to the global tables of the simulation model so that it could be incorporated at the source properties.

(ii) Queue

Queue_OT 1 – Queue_OT4 and Queue_Post-Op used the default properties for the flexibility policy simulation model. In this simulation model for the dedicated policy Queue_OT 1 and the Queue_Post-Op used the default properties because no surgeries are moved from this theatre to another, but properties had to be assigned to Queue_OT 2, Queue_OT 3, Queue_OT 4 and the Queue_Non-Elective Patients.

All non-elective patients queue in the Queue_Non-Elective Patients like in the flexibility policy simulation. From this queue patients had to be allocated to the applicable theatres, in this case all non-elective patients should be sent to operating theatre 2, for this operating theatre is dedicated to non-elective patients. This can be done by changing the flow properties as shown in **Figure 21**. Here patients could be sent to the applicable operating theatres by assigning each case to a specific port. **Figure 19** indicates that the Queue_Non-Elective Patients were connected to each operating theatre, making porting possible. **Figure 21** indicates the different ports; the ports are as follow:

- ❖ Port 1 – Operating Theatre 1
- ❖ Port 2 – Operating Theatre 2
- ❖ Port 3 – Operating Theatre 3
- ❖ Port 4 – Operating Theatre 4

For this simulation model, all non-elective patients should be sent to port 2.

The unique ID that was assigned to each patient as discussed in **Section 4.4.1 (i)** was used to port a patient the applicable operating theatre. The code in **Appendix D (i)** was used to assign each case.

```
case /**\nCase: *//**/16/**/: return /** Port: *//**/2/**/; - This indicates the unique ID that was allocated to the patient, in this case the unique ID is 16.
case /**\nCase: *//**/16/**/: return /** Port: *//**/2/**/; - This indicates the port the patient is sent to, in this case the patients is ported to port 2 – Operating Theatre 2.
```

All patients that were scheduled to operating theatre 2 had to be moved from operating theatre 2 because it was dedicated to non-elective surgeries and they had to be allocated to the applicable theatres from this queue. This can be done by changing the flow properties as shown in **Figure 25**. Here patients could be sent to the applicable operating theatres by assigning each case to a specific port. **Figure 24** indicates that the Queue_OT2 was connected to each operating theatre, making porting possible. **Figure 25** indicates the different ports; the ports were as follows:

- ❖ Port 1 – Operating Theatre 2
- ❖ Port 2 – Operating Theatre 1
- ❖ Port 3 – Operating Theatre 3
- ❖ Port 4 – Operating Theatre 4

Table 18 indicates the surgeries that were moved from operating theatre 2:

Table 18: Surgeries moved from Operating Theatre 2

SURGERY UNIQUE ID	MOVED FROM	MOVED TO
12	Operating Theatre 2	Operating Theatre 1
13	Operating Theatre 2	Operating Theatre 1
14	Operating Theatre 2	Operating Theatre 1
15	Operating Theatre 2	Operating Theatre 1
35	Operating Theatre 2	Operating Theatre 1
36	Operating Theatre 2	Operating Theatre 1
54	Operating Theatre 2	Operating Theatre 4
55	Operating Theatre 2	Operating Theatre 4
56	Operating Theatre 2	Operating Theatre 4
57	Operating Theatre 2	Operating Theatre 4
58	Operating Theatre 2	Operating Theatre 4
59	Operating Theatre 2	Operating Theatre 4
69	Operating Theatre 2	Operating Theatre 1
84	Operating Theatre 2	Operating Theatre 1
85	Operating Theatre 2	Operating Theatre 1
86	Operating Theatre 2	Operating Theatre 1
87	Operating Theatre 2	Operating Theatre 1
89	Operating Theatre 2	Operating Theatre 1
90	Operating Theatre 2	Operating Theatre 1
91	Operating Theatre 2	Operating Theatre 1
92	Operating Theatre 2	Operating Theatre 1
105	Operating Theatre 2	Operating Theatre 1
106	Operating Theatre 2	Operating Theatre 1
137	Operating Theatre 2	Operating Theatre 1
138	Operating Theatre 2	Operating Theatre 1
173	Operating Theatre 2	Operating Theatre 1
170	Operating Theatre 2	Operating Theatre 3
171	Operating Theatre 2	Operating Theatre 3

172	Operating Theatre 2	Operating Theatre 3
139	Operating Theatre 2	Operating Theatre 1
193	Operating Theatre 2	Operating Theatre 3
194	Operating Theatre 2	Operating Theatre 3
195	Operating Theatre 2	Operating Theatre 3
196	Operating Theatre 2	Operating Theatre 3
197	Operating Theatre 2	Operating Theatre 3
198	Operating Theatre 2	Operating Theatre 3
212	Operating Theatre 2	Operating Theatre 3
214	Operating Theatre 2	Operating Theatre 3
215	Operating Theatre 2	Operating Theatre 3
216	Operating Theatre 2	Operating Theatre 3
217	Operating Theatre 2	Operating Theatre 3
218	Operating Theatre 2	Operating Theatre 3
219	Operating Theatre 2	Operating Theatre 3
229	Operating Theatre 2	Operating Theatre 1
241	Operating Theatre 2	Operating Theatre 1
243	Operating Theatre 2	Operating Theatre 1
244	Operating Theatre 2	Operating Theatre 1
242	Operating Theatre 2	Operating Theatre 4
267	Operating Theatre 2	Operating Theatre 3
268	Operating Theatre 2	Operating Theatre 3
269	Operating Theatre 2	Operating Theatre 3
270	Operating Theatre 2	Operating Theatre 3
288	Operating Theatre 2	Operating Theatre 4
306	Operating Theatre 2	Operating Theatre 4
307	Operating Theatre 2	Operating Theatre 4
308	Operating Theatre 2	Operating Theatre 4
309	Operating Theatre 2	Operating Theatre 4
310	Operating Theatre 2	Operating Theatre 4
311	Operating Theatre 2	Operating Theatre 4
329	Operating Theatre 2	Operating Theatre 4
330	Operating Theatre 2	Operating Theatre 4
331	Operating Theatre 2	Operating Theatre 4
332	Operating Theatre 2	Operating Theatre 4
345	Operating Theatre 2	Operating Theatre 3
346	Operating Theatre 2	Operating Theatre 3

347	Operating Theatre 2	Operating Theatre 3
348	Operating Theatre 2	Operating Theatre 3
366	Operating Theatre 2	Operating Theatre 4
199	Operating Theatre 2	Operating Theatre 3

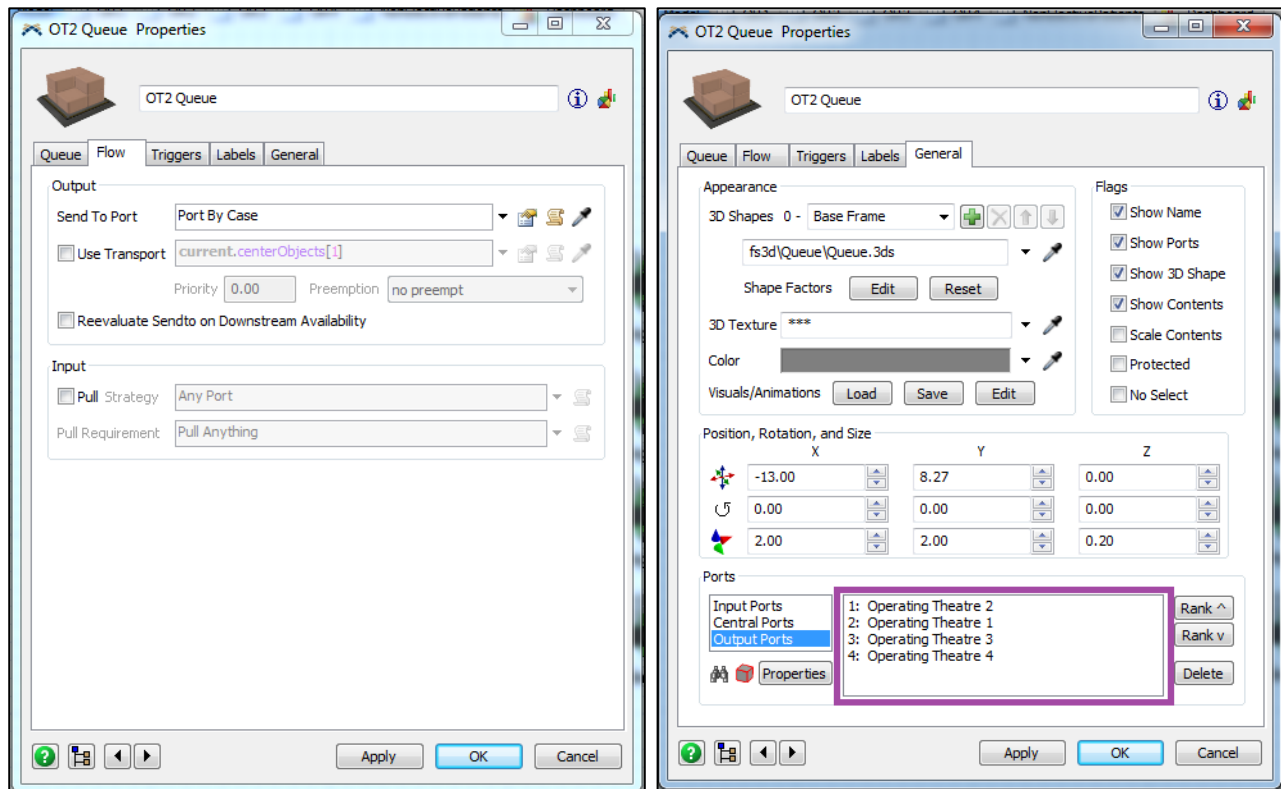


Figure 25: Queue Properties Queue_OT2

The unique ID that was assigned to each patient as discussed in **Section 4.4.1 (i)** was used to port a patient the applicable operating theatre. The code in **Appendix D (ii)** was used to assign each case.

case /**\nCase: */**/12/**/: return /** Port: */**/2/**/; - This indicates the unique ID that was allocated to the patient, in this case the unique ID is 12.

case /**\nCase: */**/12/**/: return /** Port: */**/2/**/; - This indicates the port the patient is sent to, in this case the patients is ported to port 2 – Operating Theatre 1.

Some of the surgeries scheduled to operating theatre 3 had to be moved from operating theatre 3 because of the surgeries that had to be moved from operating theatre 2. Therefore the surgeries that moved had to be allocated to the applicable theatres from this queue. This can be done by changing the flow properties as shown in **Figure 26**. Here patients could be sent to the applicable operating theatres by assigning each case to a specific port. **Figure 24** indicates that the Queue_OT3 are connected to each operating theatre, making porting possible. **Figure 26** the different ports, the ports are as follows:

- ❖ Port 1 – Operating Theatre 3
- ❖ Port 2 – Operating Theatre 1
- ❖ Port 3 – Operating Theatre 2
- ❖ Port 4 – Operating Theatre 4

Table 19 indicates the surgeries that was moved from operating theatre 3:

Table 19: Surgeries moved from Operating Theatre 3

SURGERY UNIQUE ID	MOVED FROM	MOVED TO
112	Operating Theatre 3	Operating Theatre 1
113	Operating Theatre 3	Operating Theatre 1
114	Operating Theatre 3	Operating Theatre 1
115	Operating Theatre 3	Operating Theatre 1
116	Operating Theatre 3	Operating Theatre 1
117	Operating Theatre 3	Operating Theatre 1
118	Operating Theatre 3	Operating Theatre 1
119	Operating Theatre 3	Operating Theatre 1
200	Operating Theatre 3	Operating Theatre 4
201	Operating Theatre 3	Operating Theatre 4
202	Operating Theatre 3	Operating Theatre 4
203	Operating Theatre 3	Operating Theatre 4
204	Operating Theatre 3	Operating Theatre 4
220	Operating Theatre 3	Operating Theatre 4
221	Operating Theatre 3	Operating Theatre 4
349	Operating Theatre 3	Operating Theatre 4
350	Operating Theatre 3	Operating Theatre 4
351	Operating Theatre 3	Operating Theatre 4
205	Operating Theatre 3	Operating Theatre 4

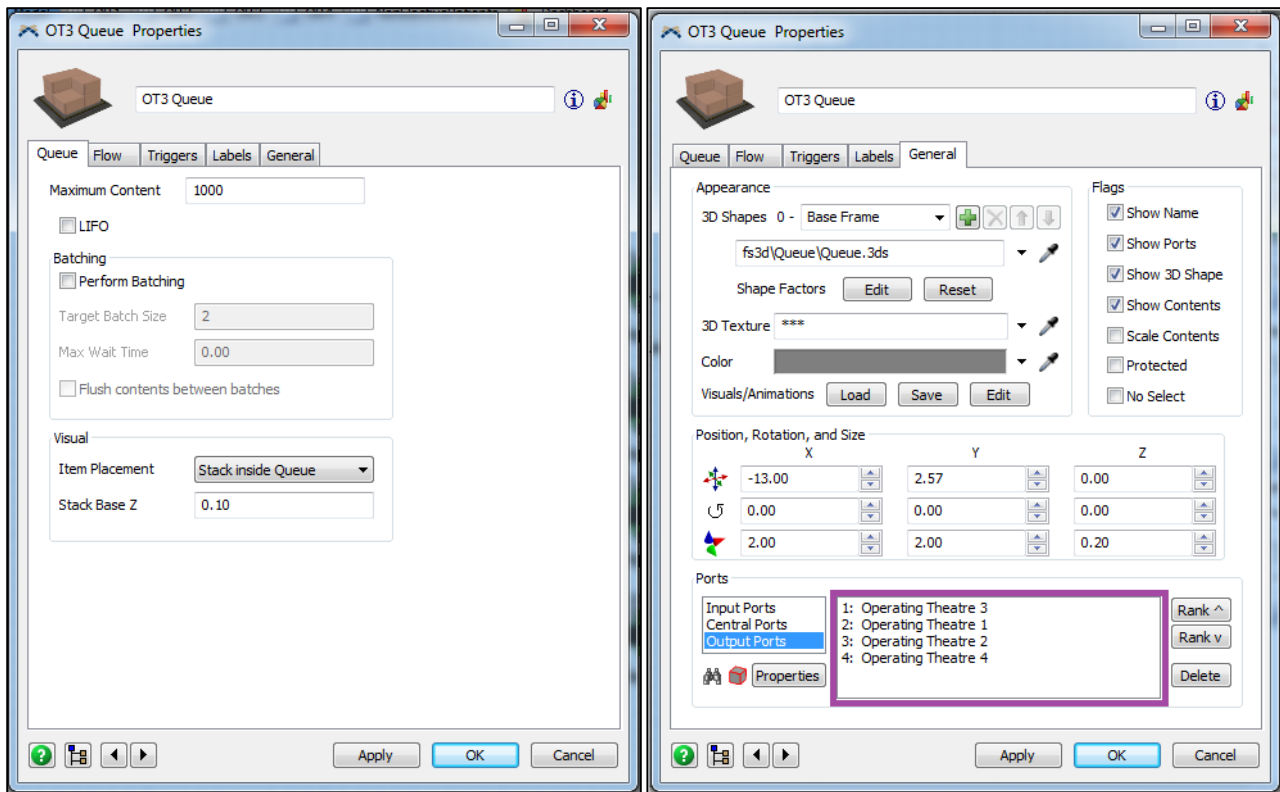


Figure 26: Queue Properties Queue_OT3

The unique ID that was assigned to each patient as discussed in **Section 4.4.1 (i)** was used to port a patient the applicable operating theatre. The code in **Appendix D (iii)** was used to assign each case.

case /**\nCase: */**/112/**/: return /** Port: */**/2/**/; - This indicates the unique ID that was allocated to the patient, in this case the unique ID is 112.

case /**\nCase: */**/112/**/: return /** Port: */**/2/**/; - This indicates the port the patient is sent to, in this case the patients is ported to port 2 – Operating Theatre 1.

Some of the surgeries scheduled to operating theatre 4 had to be moved from operating theatre 4, because of the surgeries that were moved from operating theatre 2, therefore the surgeries that moved had to be allocated to the applicable theatres from this queue. This can be done by changing the flow properties as shown in **Figure 27**. Here patients could be sent to the applicable operating theatres by assigning each case to a specific port. **Figure 24** indicates that the Queue_OT3 were connected to each operating theatre, this making porting possible. **Figure 27** the different ports, the ports are as follows:

- ❖ Port 1 – Operating Theatre 4
- ❖ Port 2 – Operating Theatre 2
- ❖ Port 3 – Operating Theatre 1
- ❖ Port 4 – Operating Theatre 3

Table 20 indicates the surgeries that was moved from operating theatre 4:

Table 20: Surgeries moved from Operating Theatre 4

SURGERY UNIQUE ID	MOVED FROM	MOVED TO
320	Operating Theatre 4	Operating Theatre 1
321	Operating Theatre 4	Operating Theatre 1
337	Operating Theatre 4	Operating Theatre 3
322	Operating Theatre 4	Operating Theatre 1

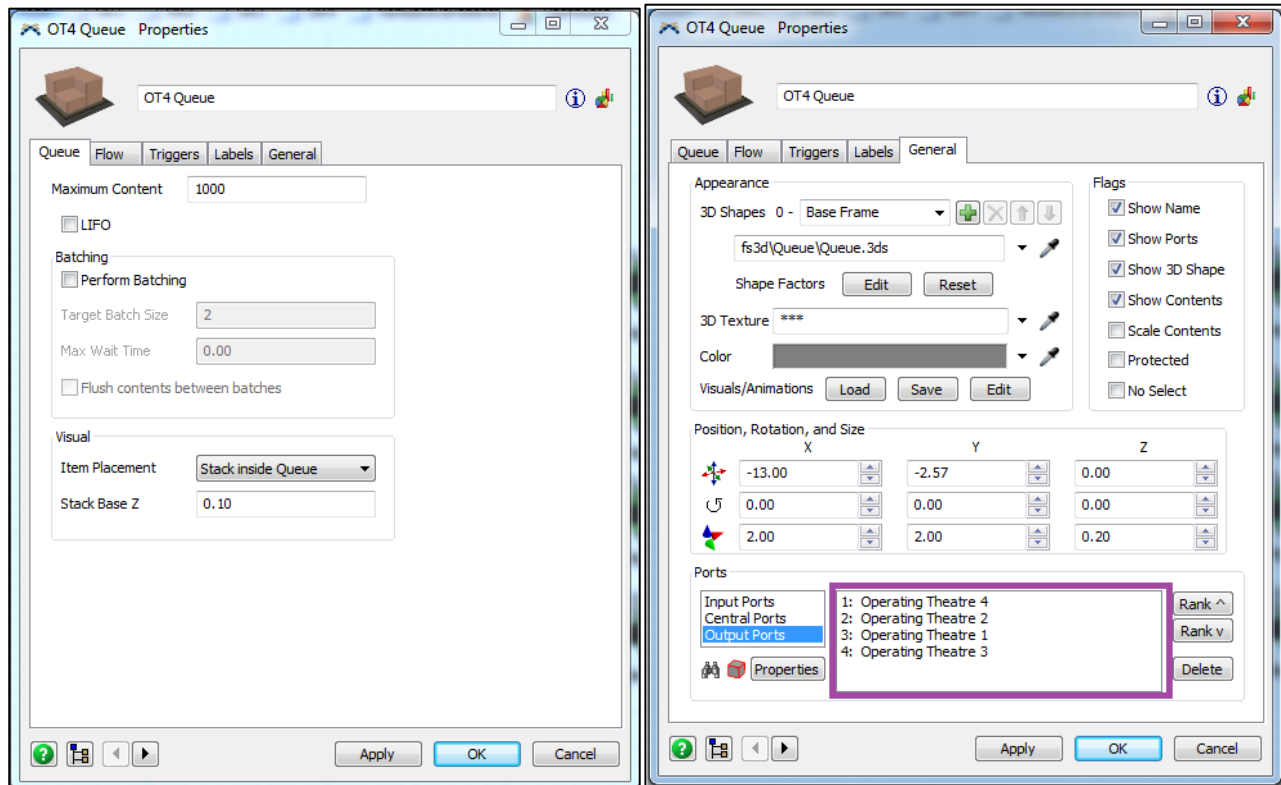


Figure 27: Queue Properties Queue_OT4

The unique ID that was assigned to each patient as discussed in **Section 4.4.1 (i)** was used to port a patient the applicable operating theatre. The code in **Appendix D (iv)** was used to assign each case.

case /**\nCase: */**/320/**/: return /** Port: */**/3/**/; - This indicates the unique ID that was allocated to the patient, in this case the unique ID is 320.

case /**\nCase: */**/320/**/: return /** Port: */**/3/**/; - This indicates the port the patient is sent to, in this case the patients is ported to port 3 – Operating Theatre 1.

(iii) Processor

In this policy the operating theatres are dedicated to serve specific categories of patients and as discussed in **Section 4.2.1**, the hospital currently has four operating theatres. The simulation model

representing the dedicated policy dedicated one operating theatre to the arrival of non-elective patients and dedicated three operating theatres to elective patients. In this case operating theatre 2 was dedicated to non-elective patients.

For the dedicated policy simulation model, properties are assigned to the processor elements exactly the same as for the flexibility policy simulation model, therefore refer **Section 4.4.1 (iii)** for more information on how the properties are assigned. The assumptions as discussed in **Section 4.2.6** was incorporated into the historical data that had been compiled in Microsoft Excel. Refer to **Appendix F** for detail on the data used for the simulation model. The fact that some surgeries had to be moved to other operating theatres resulted in some surgeries being delayed and, in some cases, causing overtime. Refer to **Table 21** to see which surgeries were delayed and caused overtime because they had to be moved. These necessary changes were copied from the data in Microsoft Excel to the global tables of the simulation model. The code in **Appendix D (v – viii)** was used to assign the process time to each case at the operating theatres.

Table 21: Surgery delays and overtime caused by implementing the dedicated policy

SURGERY UNIQUE ID	SURGERY DELAY [MINUTES]	DID THE SURGERY RESULT IN OVERTIME
21	42	YES
42	8	NO
34	36	NO
51	180	YES
52	164	YES
53	146	YES
60	148	YES
74	15	NO
68	30	NO
75	47	NO
76	21	YES
71	101	YES
140	38	NO
141	34	NO
145	90	NO
146	86	NO
142	127	NO
134	30	NO
135	11	NO
173	14	NO

175	25	NO
171	67	NO
176	80	NO
172	90	NO
177	189	NO
178	88	NO
192	6	YES
206	63	YES
209	58	YES
224	25	NO
225	20	NO
241	139	NO
238	185	NO
239	171	NO
243	173	NO
244	169	YES
245	161	YES
267	59	NO
275	97	NO
268	93	NO
276	169	NO
278	159	NO
269	242	NO
270	267	NO
335	26	NO
336	11	YES
344	89	NO
352	10	NO
353	15	NO
350	18	NO
354	16	NO
351	13	NO
366	12	NO
375	50	NO

(iv) Sink

For the dedicated policy simulation model, the default properties for the sink element were used exactly the same as for the flexibility policy simulation model, therefore refer to **Section 4.4.1 (iv)** for more information on the purpose of the sink.

4.4.3. Hybrid Policy

In this section more in-depth information is provided with regard to the hybrid policy simulation model. Simulation model 1 (flexibility policy) was used as base case to develop a simulation model that accurately depicts the real-life scenario. With simulation model 3 (Hybrid policy) certain assumptions were made and a few changes were applied to the base case model to determine what the effect of the dedicated policy was on the allocation of non-elective patients in the operating theatre of this private hospital.

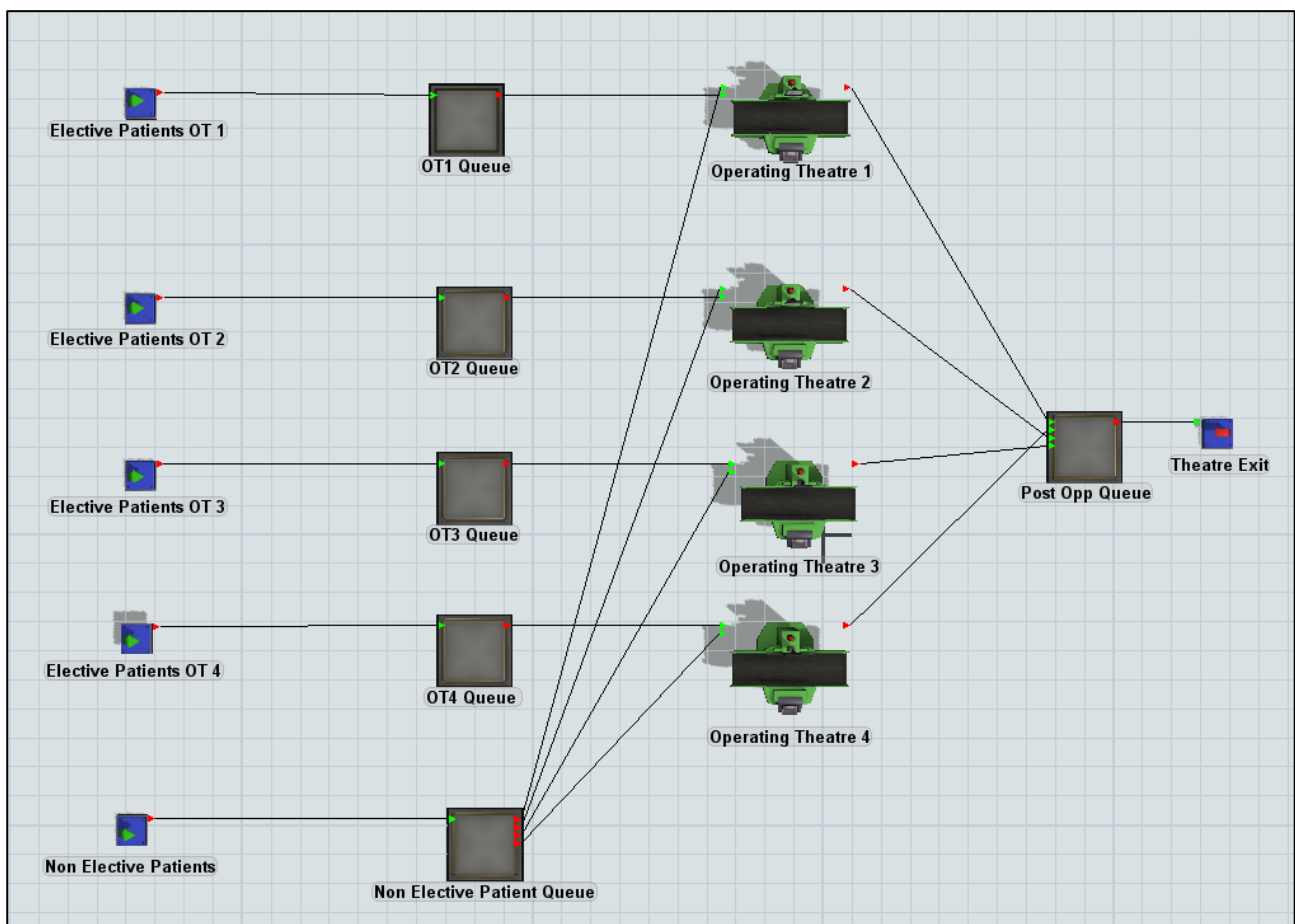


Figure 28: Simulation Elements used for the Hybrid policy

(i) Source

For the hybrid policy simulation model properties are assigned to the source elements exactly the same as for the flexibility policy simulation model, therefore refer to **Section 4.4.1 (i)** for more information on how the properties are assigned. The assumptions as discussed in **Section 4.2.6**

were incorporated in the historical data that had been compiled in Microsoft Excel. Refer to **Appendix F** for detail on the data used for the simulation model. The fact that some surgeries had to be moved to other operating theatres resulted in some surgeries being delayed. Refer to **Table 23** to see which surgeries were delayed because they had to be moved. These necessary changes were copied from the data in Microsoft Excel to the global tables of the simulation model so that it could be incorporated at the source properties.

(ii) Queue

Queue_OT 1 – Queue_OT4 and the Queue_Post-Op used the default properties for the flexibility policy simulation model. In this simulation model for the hybrid policy Queue_OT 1 – Queue_OT4 and the Queue_Post-Op were using the default properties because no surgeries were moved from this theatre to another. Properties has to be assigned to the Queue_Non-Elective Patients. This was done because Operating theatre 2 was dedicated to elective patients going for general surgery only. Therefore, the only surgeries that had to be moved from operating theatre 2 is non-elective patients.

All non-elective patients queued in the Queue_Non-Elective Patients like in the flexibility policy simulation. From this queue patients has to be allocated to the applicable theatres, in this case all non-elective patients should be sent to operating theatre 1, 3 and 4 for these operating theatres can be used for non-elective patients. This could be done by changing the flow properties as shown in **Figure 21**. Here patients could be sent to the applicable operating theatres by assigning each case to a specific port. **Figure 28** indicates that the Queue_Non-Elective Patients were connected to each operating theatre, this making porting possible. **Figure 21** indicates the different ports; the ports were as follows:

- ❖ Port 1 – Operating Theatre 1
- ❖ Port 2 – Operating Theatre 2
- ❖ Port 3 – Operating Theatre 3
- ❖ Port 4 – Operating Theatre 4

Table 22 indicates the surgeries that was moved from operating theatre 2:

Table 22: Surgeries moved from Operating Theatre 2

SURGERY UNIQUE ID	MOVED FROM	MOVED TO
2	Operating Theatre 2	Operating Theatre 1
60	Operating Theatre 2	Operating Theatre 4
71	Operating Theatre 2	Operating Theatre 1
70	Operating Theatre 2	Operating Theatre 3
107	Operating Theatre 2	Operating Theatre 3
127	Operating Theatre 2	Operating Theatre 4

128	Operating Theatre 2	Operating Theatre 4
129	Operating Theatre 2	Operating Theatre 4
132	Operating Theatre 2	Operating Theatre 1
222	Operating Theatre 2	Operating Theatre 3
223	Operating Theatre 2	Operating Theatre 4
271	Operating Theatre 2	Operating Theatre 1
272	Operating Theatre 2	Operating Theatre 1
327	Operating Theatre 2	Operating Theatre 4
328	Operating Theatre 2	Operating Theatre 4
344	Operating Theatre 2	Operating Theatre 4
367	Operating Theatre 2	Operating Theatre 1
368	Operating Theatre 2	Operating Theatre 1

The unique ID that was assigned to each patient as discussed in **Section 4.4.1 (i)** was used to port a patient the applicable operating theatre. The code in **Appendix E (i)** was used to assign each case.

case /**\nCase: */**/16/**/: return /** Port: */**/3/**/; - This indicates the unique ID that was allocated to the patient, in this case the unique ID is 16.

case /**\nCase: */**/16/**/: return /** Port: */**/3/**/; - This indicates the port the patient is sent to, in this case the patients is ported to port 3 – Operating Theatre 3.

(iii) Processor

The dedicated policy was applied to one of the operating theatres by dedicating one operating theatre to elective patients and the flexibility policy was applied to the other three operating theatres using them for both elective and non-elective patients. In the simulation model the flexibility policy was used for operating theatre 1, 3 and 4 to be used for both elective and non-elective patients. Operating theatre 2 is dedicated to elective patients and to general surgeries only.

For the hybrid policy simulation model properties were assigned to the processor elements exactly the same as for the flexibility policy simulation model, therefore refer **Section 4.4.1 (iii)** for more information on how the properties are assigned. The assumptions as discussed in **Section 4.2.6** were incorporated in the historical data that had been compiled in Microsoft Excel. Refer to **Appendix F** for detail on the data used for the simulation model. Since some surgeries had to be moved from operating theatre 2 to other operating theatres, some surgeries were delayed, in some cases causing overtime.

Refer to **Table 23** to see which surgeries were delayed and caused overtime because they had to be moved. These necessary changes were copied from the data in Microsoft Excel to the global tables of the simulation model. The code in **Appendix E (ii – v)** was used to assign the process time to each case at the operating theatres.

Table 23: Surgery delays and overtime caused by implementing the hybrid policy

SURGERY UNIQUE ID	SURGERY DELAY [MINUTES]	DID THE SURGERY RESULT IN OVERTIME
60	3	NO
132	4	NO
337	74	NO
328	29	NO
367	4	NO
365	142	NO

(iv) Sink

For the dedicated policy simulation model, the default properties for the sink element were used exactly the same as for the flexibility policy simulation model. Therefore refer to **Section 4.4.1 (iv)** for more information on the purpose of the sink.

4.5. Chapter Summary

This chapter gave a brief overview of the design requirements that had to be taken into consideration when the simulation model was developed. Illustrations of the conceptual models was provided and an in-depth explanation of how the simulation models were constructed. The next chapter discussed the research results.

Chapter 5: Verification of Results

5.1. Introduction

This chapter presents an overview on how the data obtained in the research results of the simulation models are compared to the theoretical results. By comparing results a verification process is followed to ensure accuracy of the model. This chapter will also provide an overview of how the patient's path through the simulation model is verified. Please note that as discussed in **Section 4.2.7**, weekends are not taken into consideration and therefore no results are provided for those days.

5.2. Data Verification

5.2.1. Flexibility Policy

Table 32 in **Appendix B** provides the research results that was obtained for the flexibility policy. Here both the theoretical calculated utilization and the cumulative utilization obtained from simulation model 1 simulating the flexibility policy is shown for the month of July (2 July – 31 July). These results are provided to verify whether simulation model 1, simulating the flexibility policy accurately depicts the real-life scenario. The biggest difference between the theoretical calculated cumulative utilization and the cumulative utilization obtained by the simulation model is 0.5%, therefore it can be said that the model is verified and accurately depicts the real-life scenario.

5.2.2. Dedicated Policy

Table 33 in **Appendix B** provides the research results that was obtained for the dedicated policy. Here both the theoretical calculated utilization and the cumulative utilization obtained from simulation model 2 simulating the dedicated policy is shown for the month of July (2 July – 31 July). These results are provided to verify whether simulation model 2, simulating the dedicated policy accurately depicts the real-life scenario. The biggest difference between the theoretical calculated cumulative utilization and the cumulative utilization obtained by the simulation model is 1.2%, therefore it can be said that the model is verified and accurately depicts the real-life scenario.

5.2.3. Hybrid Policy

Table 34 in **Appendix B** provides the research results that was obtained for the hybrid policy. Here both the theoretical calculated utilization and the cumulative utilization obtained from simulation model 3 simulating the hybrid policy is shown for the month of July (2 July – 31 July). These results are provided to verify whether simulation model 3, simulating the hybrid policy accurately depicts the real-life scenario. The biggest difference between the theoretical calculated cumulative utilization and the cumulative utilization obtained by the simulation model is 0.4%, therefore it can be said that the model is verified and accurately depicts the real-life scenario.

5.3. Patient Path Verification

In this section the patient's path through each of the simulation models is verified. One patient's path for each one of the simulation models will be verified to determine whether the simulation model performs its function correctly.

(i) Flexibility Policy

Figure 29 indicates surgery 2 needs to start at 17:26 (626 minutes) and the duration of the surgery is 28 minutes. This data can be verified by comparing it to the information provided in the State Gantt as shown in **Figure 30**.

THEATRE 2												
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00 19:00	Ear, Nose and Throat	2	02.06.2018	Monday	2	0207T2NE1	07:00:00	0	10:26:00	626	-
			2					17:26:00	626	00:28:00	28	Non-Elective
			2					17:54:00	654	01:06:00	66	-

Figure 29: Data - flexibility policy (2 July: Operating Theatre 2)

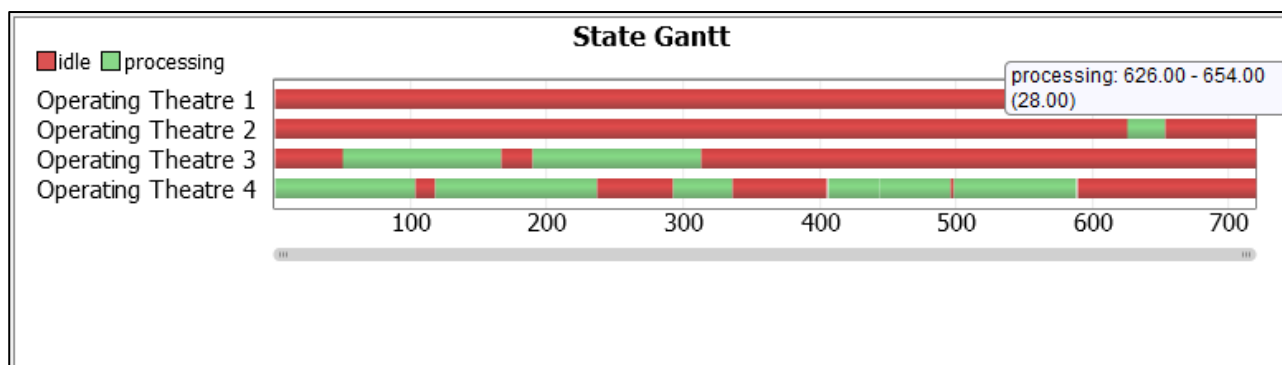


Figure 30: State Gantt - flexibility policy (2 July: Operating Theatre 2)

(ii) Dedicated policy

Figure 31 indicates surgery 2 needs to start at 17:26 (626 minutes) and the duration of the surgery is 28 minutes and surgery 1, that was moved to operating theatre 2 due to the dedicated policy that was implemented for non-elective patients, needs to start at 18:10 (670 minutes) and the duration of the surgery is 50 minutes not 60 minutes as indicated in **Figure 31** due to the fact that the last 10 minutes is overtime and therefore not taken into consideration. This data can be verified by comparing it to the information provided in the State Gantt as shown in **Figure 32** and **Figure 33**.

THEATRE 2													
Physician Specialities	Block		Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00	19:00		2					07:00:00	0	10:26:00	626	-
			Ear, Nose and Throat	2	02.06.2018	Monday	2	0207T2NE1	17:26:00	626	00:28:00	28	Non-Elective
				2					17:54:00	654	00:16:00	16	-
			General Surgeon	2	02.06.2018	Monday	1	0207T1NE1	18:10:00	670	01:00:00	60	Non-Elective

Figure 31: Data - dedicated policy (2 July: Operating Theatre 2)

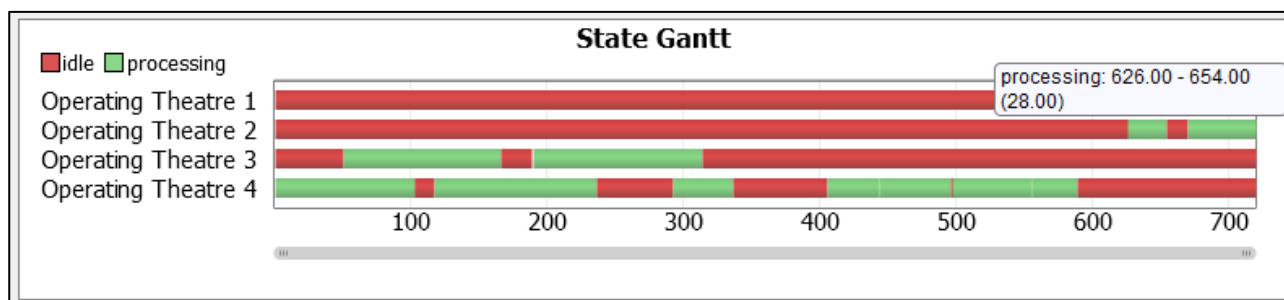


Figure 32: State Gantt - dedicated policy (2 July: Operating Theatre 2)

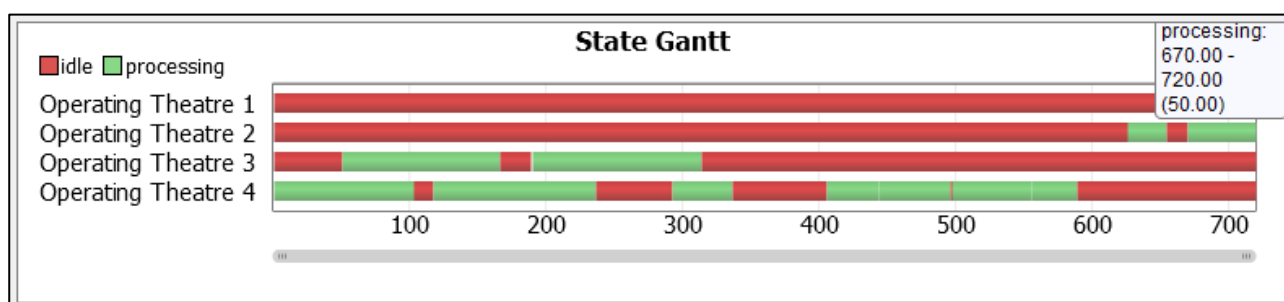


Figure 33: State Gantt - dedicated policy (2 July: Operating Theatre 2)

(iii) Hybrid policy

Figure 34 indicates that operating theatre is idle for 720 minutes this is due to the hybrid policy that was implemented for operating theatre 2 dedicated to elective patients and general surgeries only, therefore all surgeries were moved, and operating theatre is left idle. This data can be verified by comparing it to the information provided in the State Gantt as shown in **Figure 35**.

THEATRE 2													
Physician Specialities	Block		Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00	19:00		2					07:00:00	0	12:00:00	720	-

Figure 34: Data - hybrid policy (2 July: Operating Theatre 2)

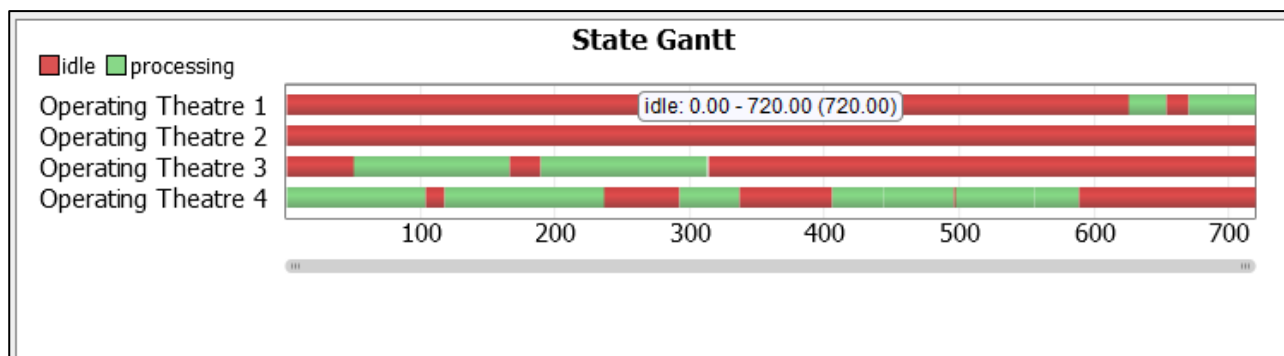


Figure 35: State Gantt – hybrid policy (2 July: Operating Theatre 2)

5.4. Chapter Summary

In this chapter a brief overview was given on how the research results obtained and the patient's pathway through the simulation model was verified. In the next chapter the study is concluded, recommendations are given, and future research is discussed.

Chapter 6: Simulation Results

6.1. Introduction

This chapter gives an overview of the research results obtained from the three simulation models. This chapter also compares the results of these different models and then offers a brief discussion on the results. Please note that as discussed in **Section 4.2.7**, weekends are not taken into consideration and therefore no results are provided for those days.

6.1.1. Flexibility Policy

Table 25 in **Appendix A** provides the research results obtained from simulation model 1, simulating the flexibility policy. Here both the daily and cumulative utilization for the month of July (2 July – 31 July) are presented.

The daily and cumulative utilization for operating theatre 1, simulating the flexibility policy is shown in **Figure 36**. The figure clearly indicates that operating theatre 1 was not used on 03.07.2018 and 10.07.2018, therefore the utilizations for those days are 0%. On the 05.07.2018, operating theatre 1 was utilized 74%. According to the operating theatre schedule for that day, refer to **Appendix F**, the operating theatre schedule is full, why then is the utilization for the day not 100%? This is due to the fact that out of the 12 hours the operating theatre was operational, only 9 hours and 21 minutes was used on surgeries, the remaining 3 hours and 8 minutes are not utilized due to change overs between surgeries.

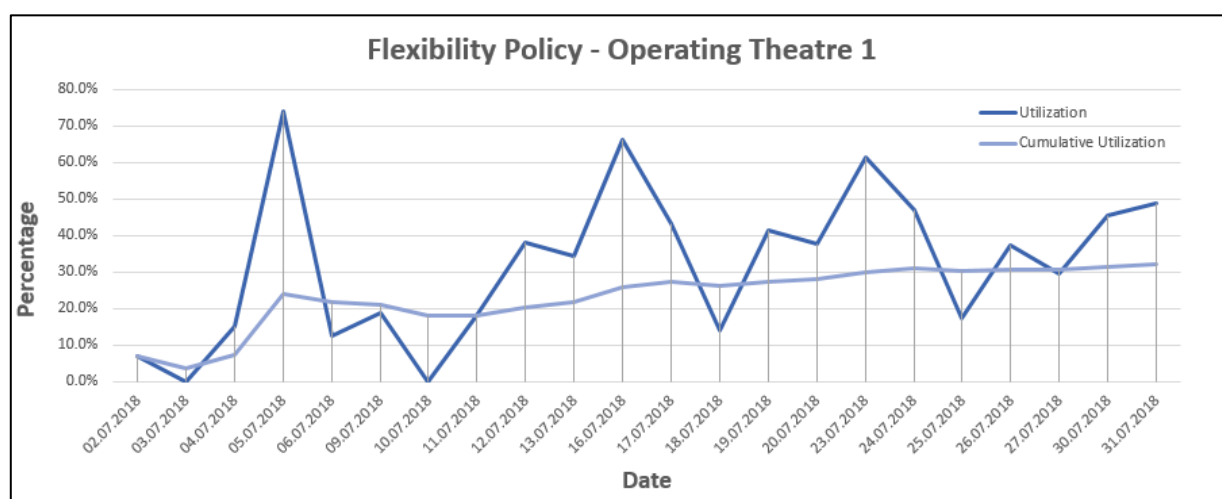


Figure 36: Flexibility policy - Daily and Cumulative Utilization (Operating Theatre 1)

As previously explained, the hospital makes use of the scheduling method known as block scheduling, with a weekly repeat of the schedule. Operating theatre 1 are allocated to the surgical category 1, general surgery on Monday's. Thus from the data in **Appendix F**, 12 hours are allocated to general surgery on Monday's. Out of the 60 hours allocated for the month of July only 29% thereof are used for general surgeries of elective patients, 11% are used for non-elective surgeries and 60% are not utilized for that specific block.

Operating theatre 1 are allocated to the surgical category 2, orthopaedic surgery on Tuesday's. Thus from the data in **Appendix F**, 9 hours are allocated to orthopaedic surgery on Tuesday's. Out of the 45 hours allocated for the month of July only 37% thereof are used for orthopaedic surgeries of elective patients, and 63% are not utilized for that specific block.

Operating theatre 1 are allocated to the surgical category 1, general surgery on Wednesday's. Thus from the data in **Appendix F**, 6 hours are allocated to general surgery on Wednesday's. Out of the 24 hours allocated for the month of July only 14% thereof are used for general surgeries of elective patients, 8% are used for non-elective surgeries and 78% are not utilized for that specific block

Operating theatre 1 are allocated to the surgical category 3, urology on Thursday's. Thus from the data in **Appendix F**, 12 hours are allocated to urology on Thursday's. Out of the 48 hours allocated for the month of July only 40% thereof are used for urology of elective patients, 5% are used for non-elective surgeries, 10% thereof are used for orthopaedic surgeries and 45% are not utilized for that specific block.

Operating theatre 1 are allocated to the surgical category 5, ear, nose and throat surgeries on Friday's. Thus from the data in **Appendix F**, 6 hours are allocated to ear, nose and throat related surgeries on Friday's. Out of the 24 hours allocated for the month of July only 12% thereof are used for ear, nose and throat surgeries of elective patients, 25% are used for non-elective surgeries and 63% are not utilized for that specific block.

The daily and cumulative utilization for operating theatre 2, simulating the flexibility policy is shown in **Figure 37**. The average daily utilization for operating theatre 2 is 39.5%, with 0% as the lowest utilization and 88.3% the highest utilization for the month.

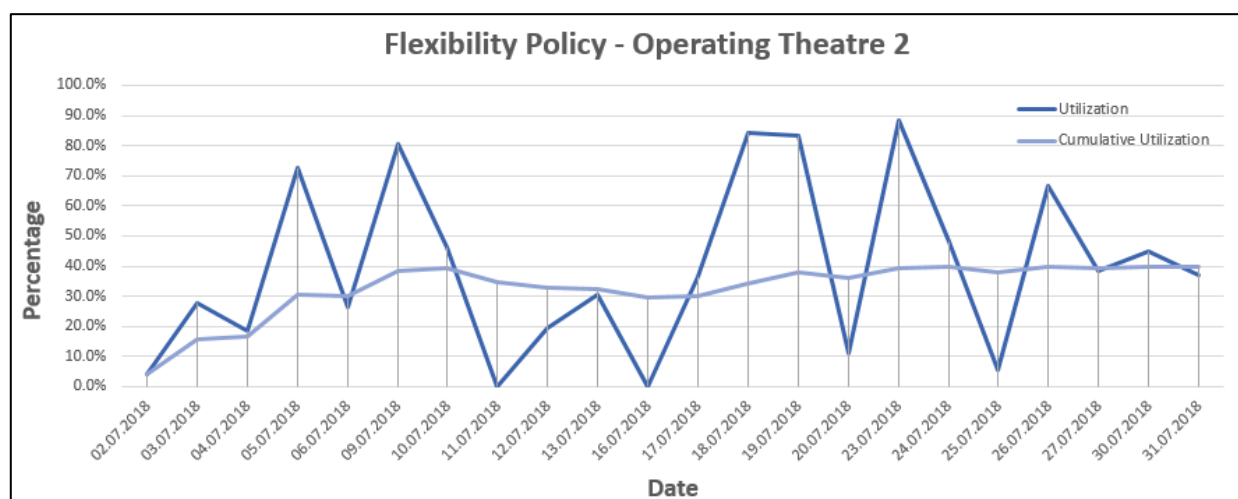


Figure 37: Flexibility policy - Daily and Cumulative Utilization (Operating Theatre 2)

Operating theatre 2 are allocated to the surgical category 1, general surgery on Monday's. Thus from the data in **Appendix F**, 12 hours are allocated to general surgery on Monday's. Out of the 60 hours allocated for the month of July only 42% thereof are used for general surgeries of elective patients, 1% are used for non-elective surgeries and 57% are not utilized for that specific block.

Operating theatre 2 are allocated to the surgical category 1, general surgery on Tuesday's. Thus from the data in **Appendix F**, 12 hours are allocated to general surgery on Tuesday's. Out of the 60 hours allocated for the month of July only 27% thereof are used for general surgeries of elective patients, 12% are used for non-elective surgeries and 61% are not utilized for that specific block.

Operating theatre 2 are allocated to the surgical category 1, general surgery on Wednesday's. Thus from the data in **Appendix F**, 12 hours are allocated to general surgery on Wednesday's. Out of the 48 hours allocated for the month of July only 27% thereof are used for general surgeries of elective patients, and 73% are not utilized for that specific block.

Operating theatre 2 are allocated to the surgical category 1, general surgery on Thursday's. Thus from the data in **Appendix F**, 12 hours are allocated to general surgery on Thursday's. Out of the 48 hours allocated for the month of July only 56% thereof are used for general surgeries of elective patients, 4% are used for non-elective surgeries and 40% are not utilized for that specific block.

Operating theatre 2 are allocated to the surgical category 1, general surgery on Friday's. Thus from the data in **Appendix F**, 12 hours are allocated to general surgery on Friday's. Out of the 48 hours allocated for the month of July only 10% thereof are used for general surgeries of elective patients, 4% are used for non-elective surgeries and 73% are not utilized for that specific block.

The daily and cumulative utilization for operating theatre 3, simulating the flexibility policy is shown in **Figure 38**. On the 27.07.2018, operating theatre 3 was utilized 89%. Out of the 12 hours the operating theatre was operational, 11 hours and 27 minutes was used on surgeries and the remaining hour and 19 minutes are not utilized. The last surgery scheduled for that day did not finish within the operational time of the operating theatre and finished 20 minutes later causing overtime.

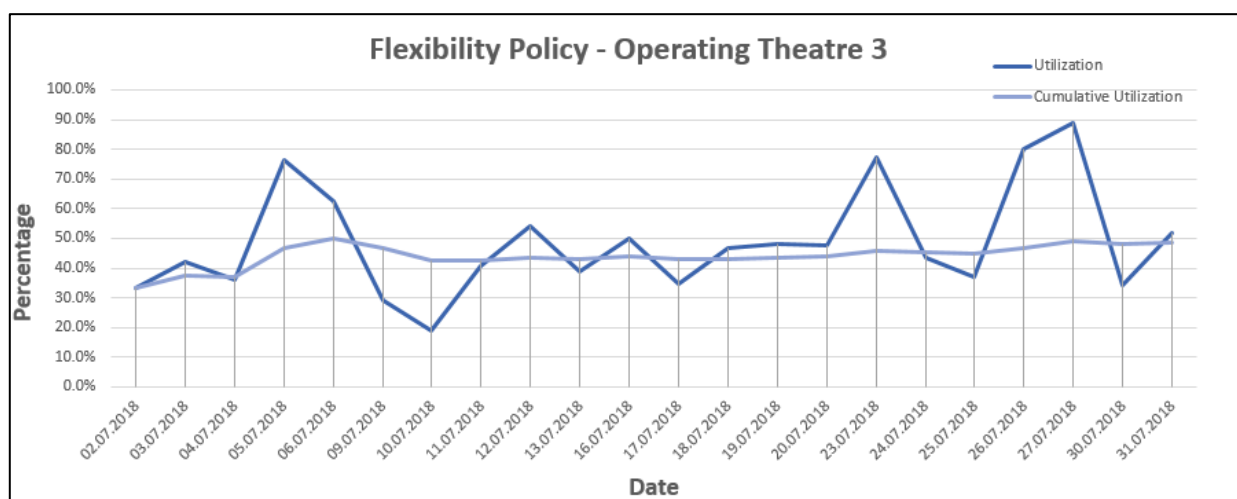


Figure 38: Flexibility policy - Daily and Cumulative Utilization (Operating Theatre 3)

Operating theatre 3 are allocated to the surgical category 2, orthopaedic surgery on Monday's. Thus from the data in **Appendix F**, 12 hours are allocated to orthopaedic surgery on Monday's. Out of the 60 hours allocated for the month of July only 42% thereof are used for orthopaedic surgeries of

elective patients, 3% are used for non-elective surgeries and 55% are not utilized for that specific block.

Operating theatre 3 are allocated to the surgical category 2, orthopaedic surgery on Tuesday's. Thus from the data in **Appendix F**, 12 hours are allocated to orthopaedic surgery on Tuesday's. Out of the 60 hours allocated for the month of July only 25% thereof are used for orthopaedic surgeries of elective patients, 7% are used for non-elective surgeries, 6% are used for urology and 62% are not utilized for that specific block.

Operating theatre 3 are allocated to the surgical category 2, orthopaedic surgery on Wednesday's. Thus from the data in **Appendix F**, 6 hours are allocated to orthopaedic surgery on Wednesday's. Out of the 24 hours allocated for the month of July only 74% thereof are used for orthopaedic surgeries of elective patients, 5% are used for non-elective surgeries and 21% are not utilized for that specific block

Operating theatre 3 are allocated to the surgical category 2, orthopaedic surgery on Thursday's. Thus from the data in **Appendix F**, 12 hours are allocated to orthopaedic surgery on Thursday's. Out of the 48 hours allocated for the month of July only 62% thereof are used for orthopaedic surgeries of elective patients, 3% are used for non-elective surgeries and 35% are not utilized for that specific block.

Operating theatre 3 are allocated to the surgical category 2, orthopaedic surgery on Friday's. Thus from the data in **Appendix F**, 6 hours are allocated to orthopaedic surgery on Friday's. Out of the 24 hours allocated for the month of July only 27% thereof are used for orthopaedic surgeries of elective patients, 20% are used for non-elective surgeries and 53% are not utilized for that specific block

The daily and cumulative utilization for operating theatre 4, simulating the flexibility policy is shown in **Figure 39**. The average daily utilization for operating theatre 4 is 39.9%, with 0% as the lowest utilization and 74.3% the highest utilization for the month.

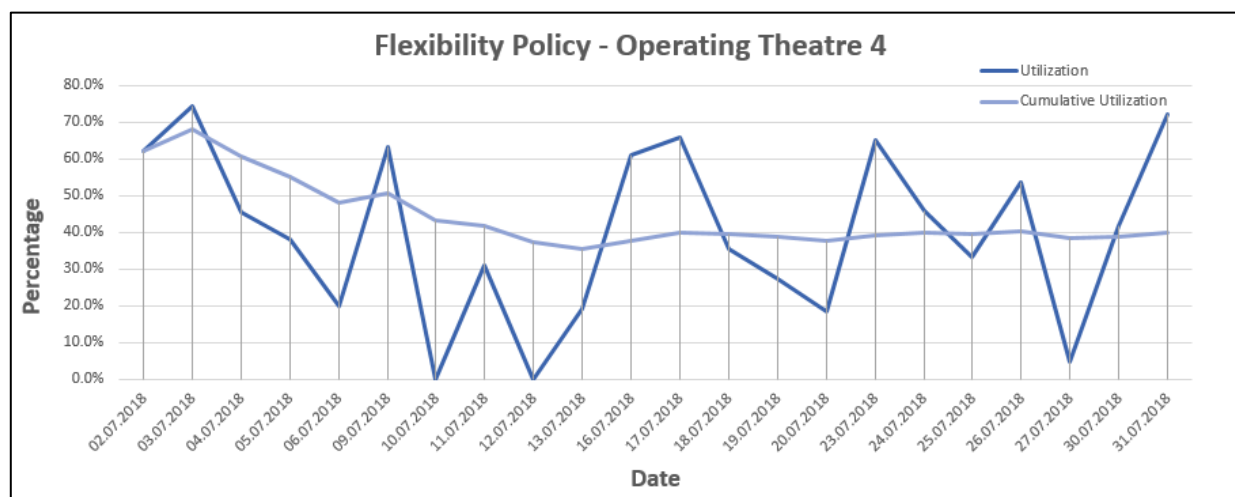


Figure 39: Flexibility policy - Daily and Cumulative Utilization (Operating Theatre 4)

Operating theatre 4 are allocated to the surgical category 2, orthopaedic surgery and category 3, obstetrics and gynaecology on Monday's. Thus from the data in **Appendix F**, 6 hours are allocated to orthopaedic surgery and 6 hours are allocated to obstetrics and gynaecology on Monday's. Out of the 30 hours allocated to orthopaedic surgery for the month of July only 50% thereof are used for orthopaedic surgeries of elective patients and 50% are not utilized for that specific block and out of the 30 hours allocated to obstetrics and gynaecology for the month of July only 66% thereof are used for obstetrics and gynaecology of elective patients and 34% are not utilized for that specific block.

Operating theatre 4 are allocated to the surgical category 3, obstetrics and gynaecology and category 4, urology on Tuesday's. Thus from the data in **Appendix F**, 6 hours are allocated to urology and 6 hours are allocated to obstetrics and gynaecology on Tuesday's. Out of the 30 hours allocated to obstetrics and gynaecology for the month of July only 68% thereof are used for obstetrics and gynaecology of elective patients and 32% are not utilized for that specific block and out of the 30 hours allocated to urology for the month of July only 13% thereof are used for urology of elective patients, 7% are used for non-elective surgeries, 15% are used for obstetrics and gynaecology and 65% are not utilized for that specific block.

Operating theatre 4 are allocated to the surgical category 1, general surgery on Wednesday's. Thus from the data in **Appendix F**, 12 hours are allocated to general surgery on Wednesday's. Out of the 48 hours allocated for the month of July only 14% thereof are used for general surgeries of elective patients, 22% are used for non-elective surgeries and 52% and 64% are not utilized for that specific block.

Operating theatre 4 are allocated to the surgical category 2, orthopaedic surgery on Thursday's. Thus from the data in **Appendix F**, 6 hours are allocated to orthopaedic surgery on Thursday's. Out of the 24 hours allocated for the month of July only 29% thereof are used for orthopaedic surgeries of elective patients, 19% are used for non-elective surgeries and 52% are not utilized for that specific block.

Operating theatre 4 are allocated to the surgical category 3, obstetrics and gynaecology on Friday's. Thus from the data in **Appendix F**, 6 hours are allocated to obstetrics and gynaecology on Friday's. Out of the 24 hours allocated for the month of July only 24% thereof are used for obstetrics and gynaecology of elective patients, 7% are used for non-elective surgeries and 69% are not utilized for that specific block

Figure 40 and **41** display the cumulative utilization obtained by simulation model 1, simulating the flexibility policy for the month of July.

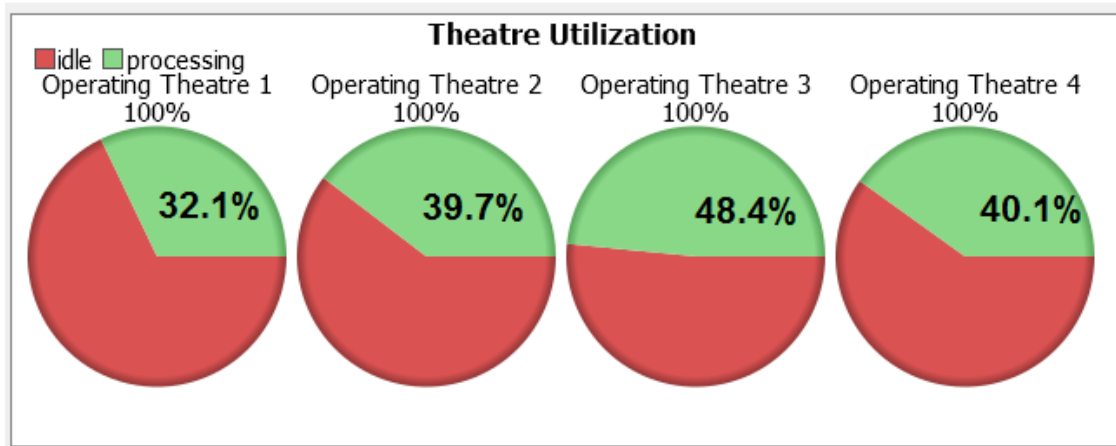


Figure 40: Flexibility policy - Cumulative Utilization for the month of July

	Total	idle	processing
Operating Theatre 1	100.0%	67.9%	32.1%
Operating Theatre 2	100.0%	60.3%	39.7%
Operating Theatre 3	100.0%	51.6%	48.4%
Operating Theatre 4	100.0%	59.9%	40.1%

Figure 41: Flexibility policy - Cumulative Utilization for the month of July

6.1.2. Dedicated Policy

Table 26 in **Appendix A** provides the research results that were obtained from simulation model 2, simulating the dedicated policy. Here both the daily and cumulative utilization for the month of July (2 July – 31 July) are presented.

The daily and cumulative utilization for operating theatre 1, simulating the dedicated policy is shown in **Figure 42**.

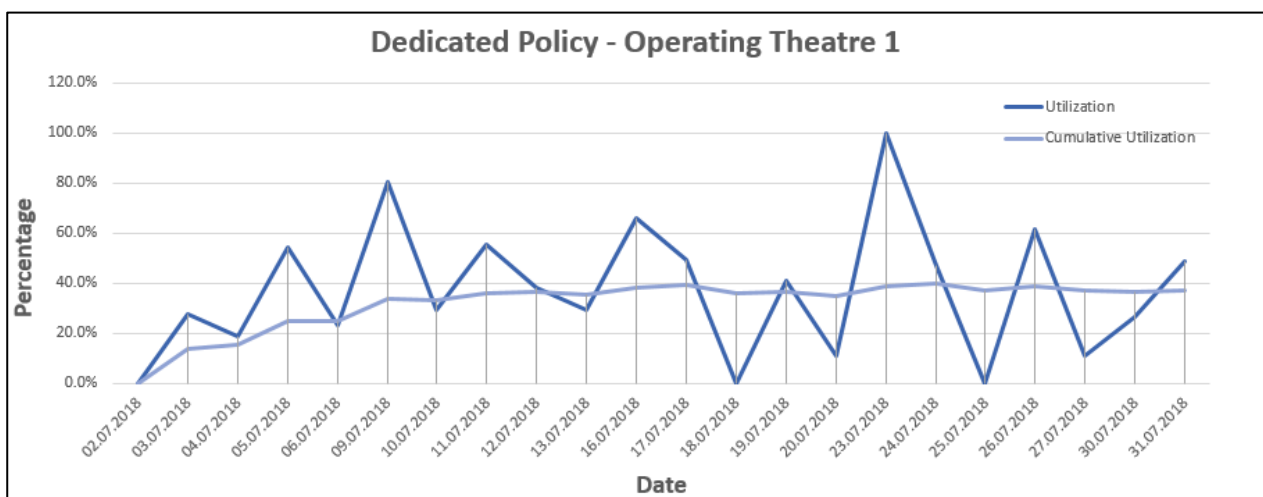


Figure 42: Dedicated policy - Daily and Cumulative Utilization (Operating Theatre 1)

The average daily utilization for operating theatre 1 is 37.3%, with 0% as the lowest utilization and 100% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 1 for the flexibility policy that is 32.2%, with 0% as the lowest utilization and 73.9% the highest utilization for the month it can be seen that there is an increase in the average utilization by 5.1%.

The daily and cumulative utilization for operating theatre 2, simulating the dedicated policy is shown in **Figure 43**

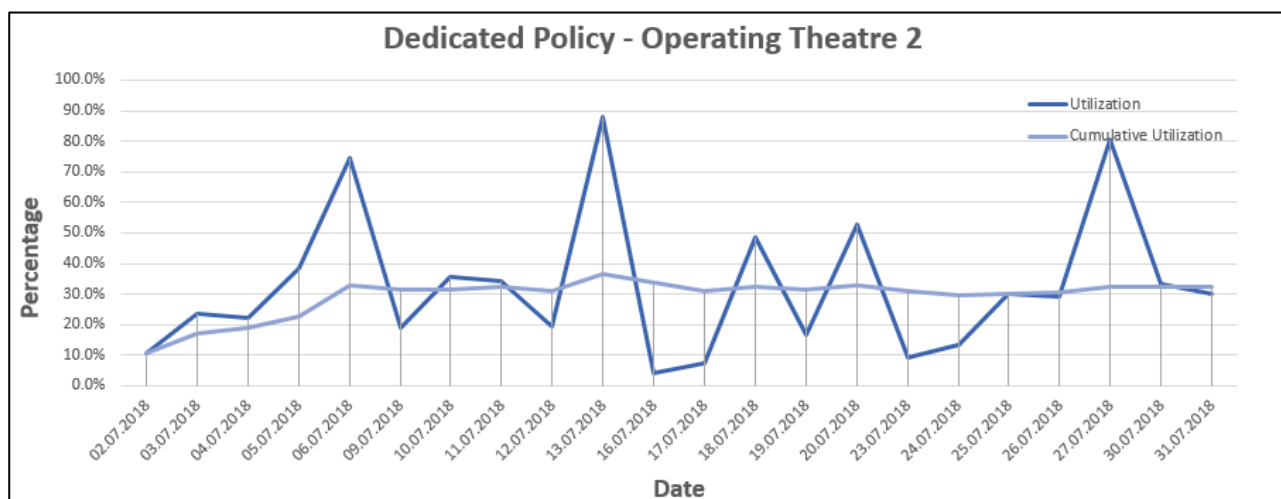


Figure 43: Dedicated policy - Daily and Cumulative Utilization (Operating Theatre 2)

The average daily utilization for operating theatre 2 is 32.8%, with 4.3% as the lowest utilization and 87.8% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 2 for the flexibility policy that is 39.5%, with 0% as the lowest utilization and 88.3% the highest utilization for the month it can be seen that there is a decrease in the average utilization by 6.7%.

The daily and cumulative utilization for operating theatre 3, simulating the dedicated policy is shown in **Figure 44**.

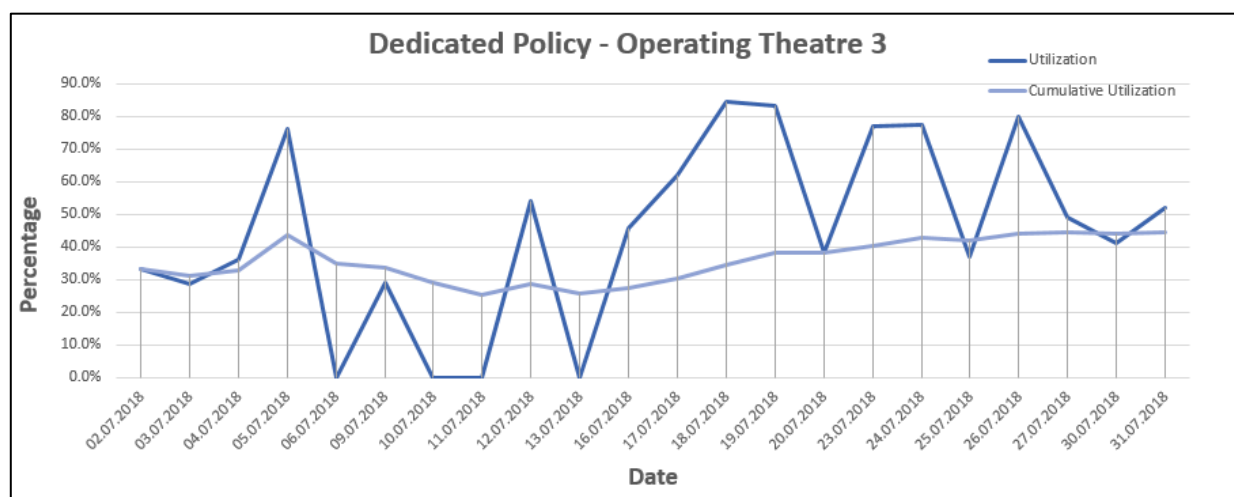


Figure 44: Dedicated policy - Daily and Cumulative Utilization (Operating Theatre 3)

The average daily utilization for operating theatre 3 is 44.8%, with 0% as the lowest utilization and 84.4% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 3 for the flexibility policy that is 49.5%, with 29% as the lowest utilization and 89% the highest utilization for the month it can be seen that there is a decrease in the average utilization by 4.7%.

The daily and cumulative utilization for operating theatre 4, simulating the dedicated policy is shown in **Figure 45**.

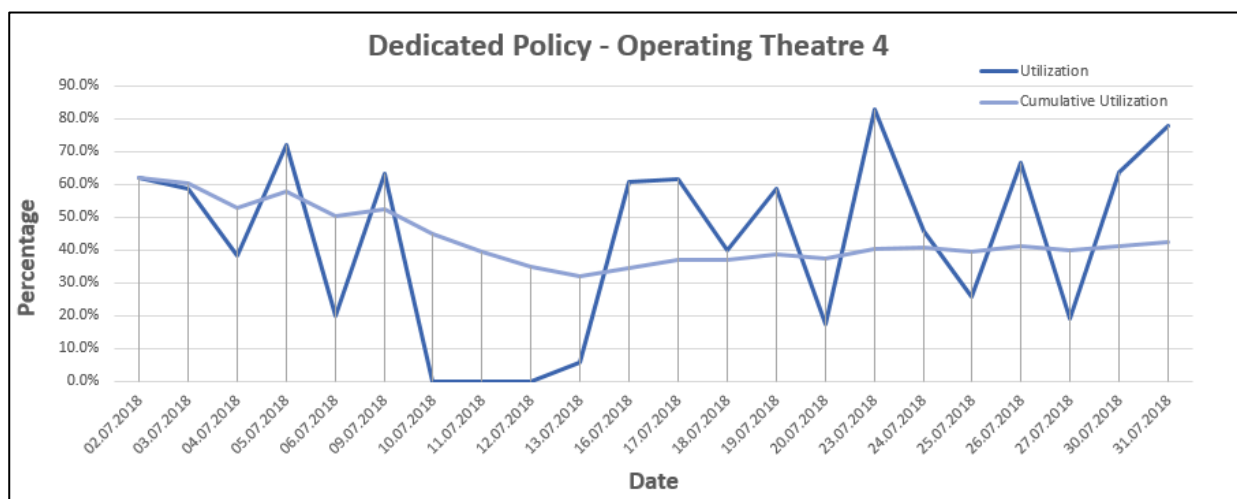


Figure 45: Dedicated policy - Daily and Cumulative Utilization (Operating Theatre 4)

The average daily utilization for operating theatre 4 is 42.8%, with 0% as the lowest utilization and 83% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 4 for the flexibility policy that is 39.9%, with 0% as the lowest utilization and 74.3% the highest utilization for the month it can be seen that there is an increase in the average utilization by 2.9%.

Figure 46 and **47** display the cumulative utilization obtained by simulation model 2, simulating the dedicated policy for the month of July.

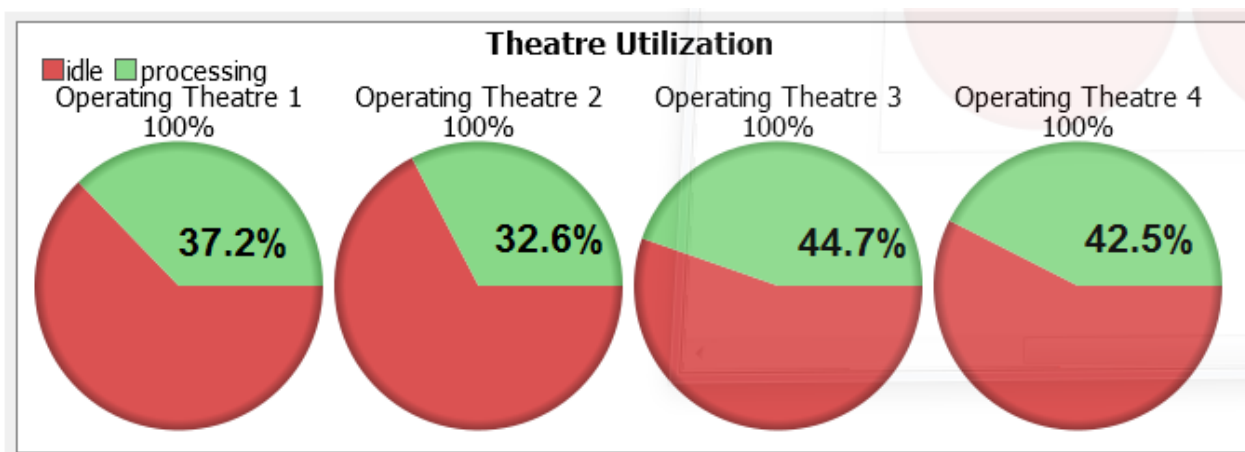


Figure 46: Dedicated policy - Cumulative Utilization for the month of July

Theatre Utilization			
	Total	idle	processing
Operating Theatre 1	100.0%	62.8%	37.2%
Operating Theatre 2	100.0%	67.4%	32.6%
Operating Theatre 3	100.0%	55.3%	44.7%
Operating Theatre 4	100.0%	57.5%	42.5%

Figure 47: Dedicated policy - Cumulative Utilization for the month of July

6.1.3. Hybrid Policy

Table 27 in Appendix A provides the research results obtained from simulation model 3, simulating the hybrid policy. Here both the daily and cumulative utilization for the month of July (2 July – 31 July) are presented.

The daily and cumulative utilization for operating theatre 1, simulating the hybrid policy is shown in Figure 48.

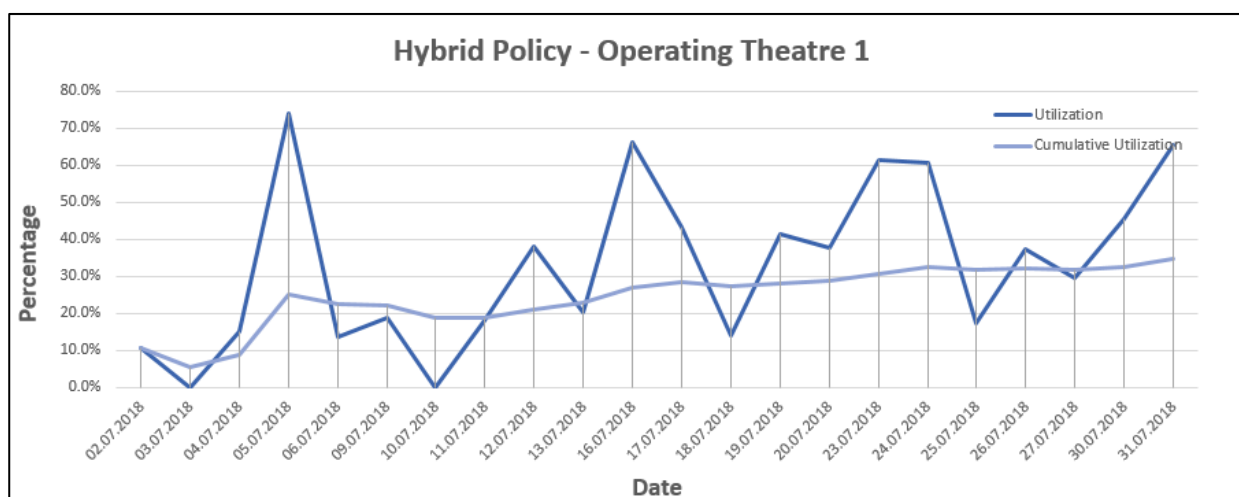


Figure 48: Hybrid policy - Daily and Cumulative Utilization (Operating Theatre 1)

The average daily utilization for operating theatre 1 is 33.1%, with 0% as the lowest utilization and 73.9% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 1 for the flexibility policy that is 32.2%, with 0% as the lowest utilization and 73.9% the highest utilization for the month it can be seen that there is an increase in the average utilization by 0.9%. In comparison with the average daily utilization for operating theatre 1 for the dedicated policy that is 37.3%, with 0% as the lowest utilization and 100% the highest utilization for the month it can be seen that there is a decrease in the average utilization by 4.2%.

The daily and cumulative utilization for operating theatre 2, simulating the hybrid policy is shown in Figure 49.

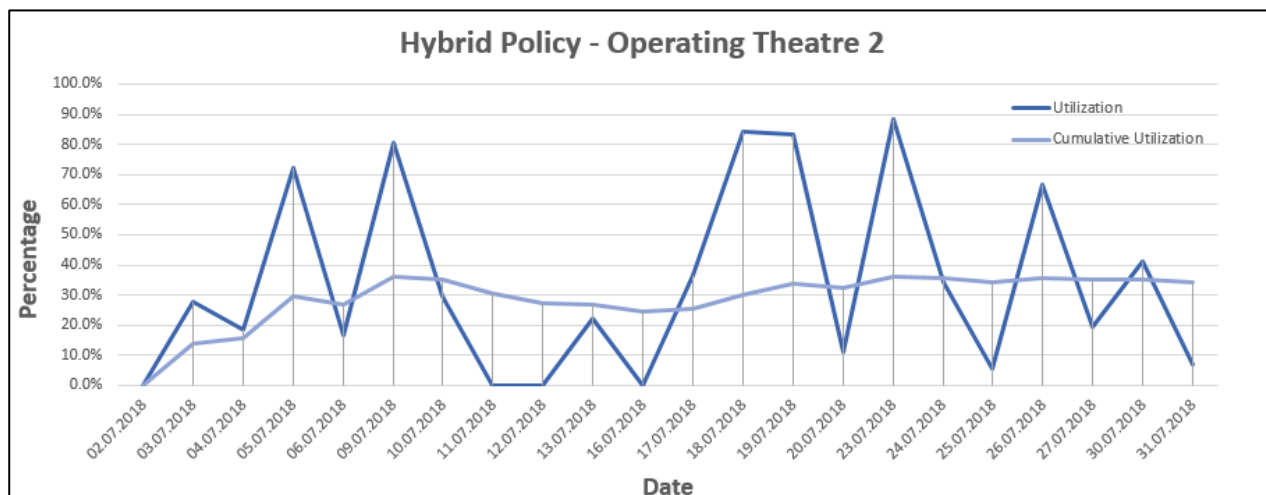


Figure 49: Hybrid policy - Daily and Cumulative Utilization (Operating Theatre 2)

The average daily utilization for operating theatre 2 is 33.9%, with 0% as the lowest utilization and 88.3% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 2 for the flexibility policy that is 39.5%, with 0% as the lowest utilization and 88.3% the highest utilization for the month it can be seen that there is a decrease in the average utilization by 5.6%. In comparison with the average daily utilization for operating theatre 2 for the dedicated policy that is 32.8%, with 4.3% as the lowest utilization and 87.8% the highest utilization for the month it can be seen that there is an increase in the average utilization by 1.1%.

The daily and cumulative utilization for operating theatre 3, simulating the hybrid policy is shown in Figure 50.

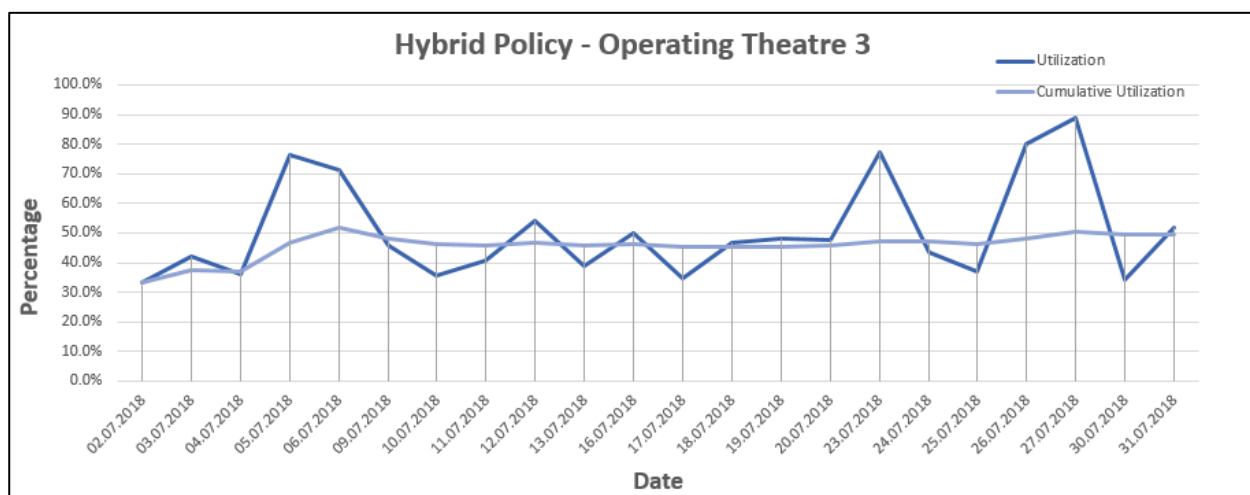


Figure 50: Hybrid policy - Daily and Cumulative Utilization (Operating Theatre 3)

The average daily utilization for operating theatre 3 is 50.7%, with 33.3% as the lowest utilization and 89% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 3 for the flexibility policy that is 49.5%, with 29% as the lowest utilization and 89%

the highest utilization for the month it can be seen that there is an increase in the average utilization by 1.2%. In comparison with the average daily utilization for operating theatre 3 for the dedicated policy that is 44.8%, with 0% as the lowest utilization and 84.4% the highest utilization for the month it can be seen that there is an increase in the average utilization by 5.9%.

The daily and cumulative utilization for operating theatre 4, simulating the hybrid policy is shown in **Figure 51**.

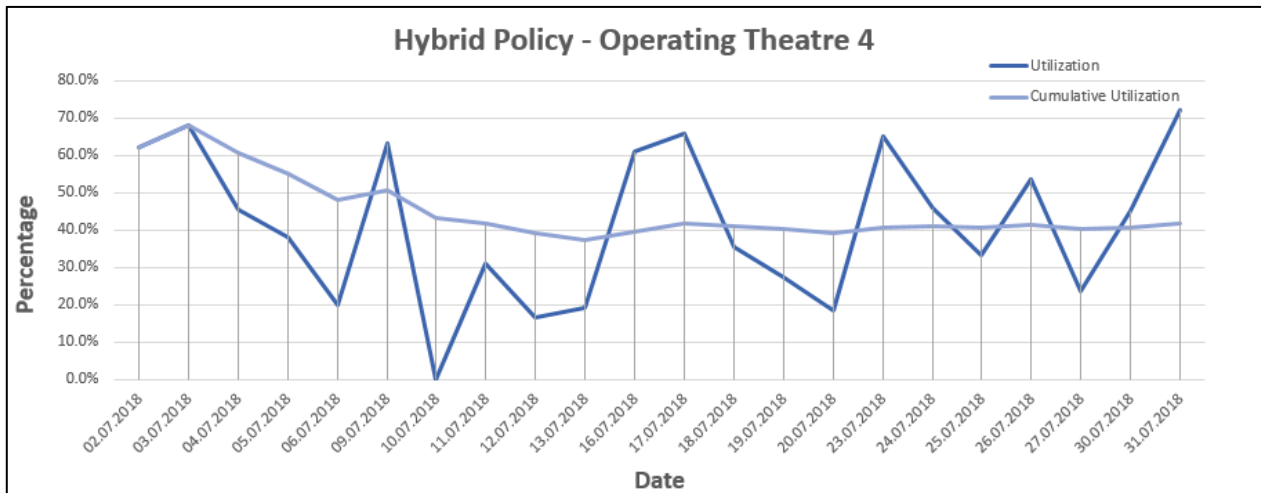


Figure 51: Hybrid policy - Daily and Cumulative Utilization (Operating Theatre 4)

The average daily utilization for operating theatre 4 is 41.4%, with 0% as the lowest utilization and 72.1% the highest utilization for the month. In comparison with the average daily utilization for operating theatre 4 for the flexibility policy that is 39.9%, with 0% as the lowest utilization and 74.3% the highest utilization for the month it can be seen that there is an increase in the average utilization by 1.5%. In comparison with the average daily utilization for operating theatre 4 for the dedicated policy that is 42.8%, with 0% as the lowest utilization and 83.1% the highest utilization for the month it can be seen that there is a decrease in the average utilization by 1.4%.

Figure 52 and **53** display the cumulative utilization obtained from simulation model 1, simulating the flexibility policy for the month of July.

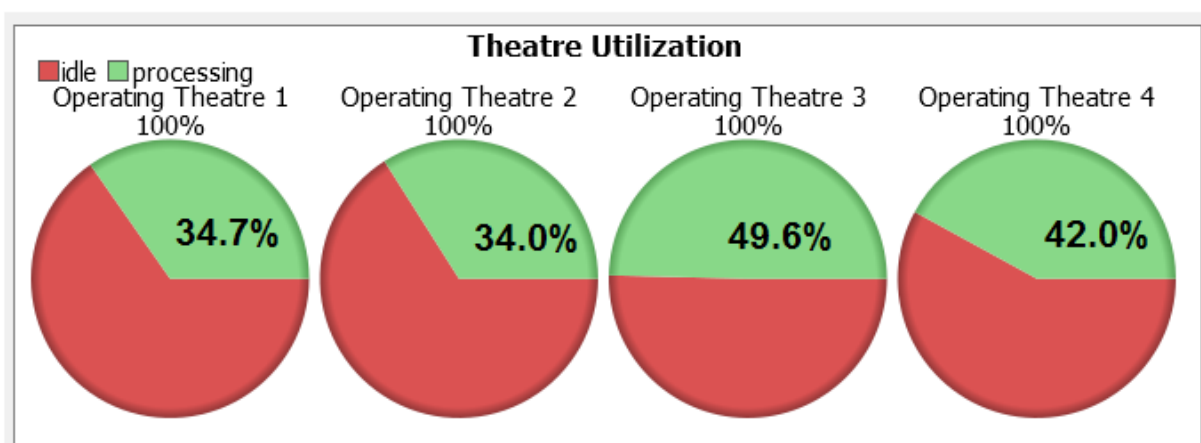


Figure 52: Hybrid policy - Cumulative Utilization for the month of July

Theatre Utilization			
	Total	idle	processing
Operating Theatre 1	100.0%	65.3%	34.7%
Operating Theatre 2	100.0%	66.0%	34.0%
Operating Theatre 3	100.0%	50.4%	49.6%
Operating Theatre 4	100.0%	58.0%	42.0%

Figure 53: Hybrid policy - Cumulative Utilization for the month of July

6.2. Results Comparison

Table 28 in **Appendix A** provide the cumulative utilization results obtained for all three simulation models for operating theatre 1. Here the cumulative utilization of the flexibility policy and the dedicated policy and the flexibility policy and the hybrid policy are compared for the month of July (2 July – 31 July). The cumulative utilization of the flexibility policy, dedicated policy and the hybrid policy for operating theatre 1, is shown in **Figure 54**.

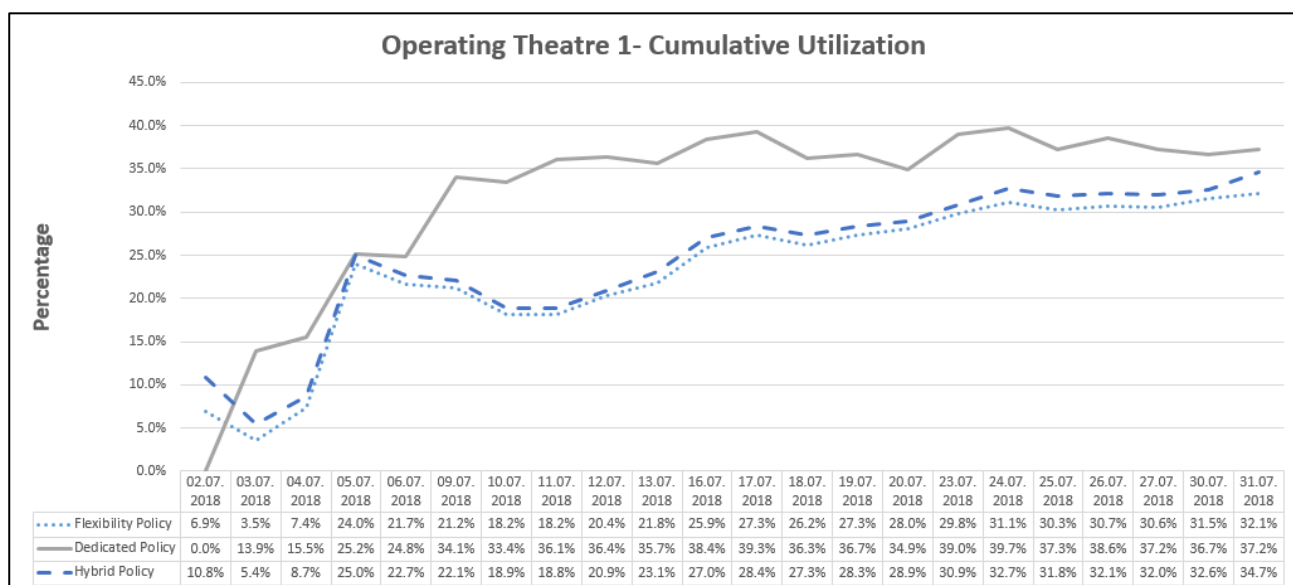


Figure 54: Cumulative Utilization - Flexibility Policy, Dedicated Policy and Hybrid Policy (Operating Theatre 1)

Table 29 in **Appendix A** provides the cumulative utilization results obtained for all three simulation models for operating theatre 2. Here the cumulative utilization of the flexibility policy and the dedicated policy and the flexibility policy and the hybrid policy are compared for the month of July (2 July – 31 July). The cumulative utilization of the flexibility policy, dedicated policy and the hybrid policy for operating theatre 2, is shown in **Figure 55**.

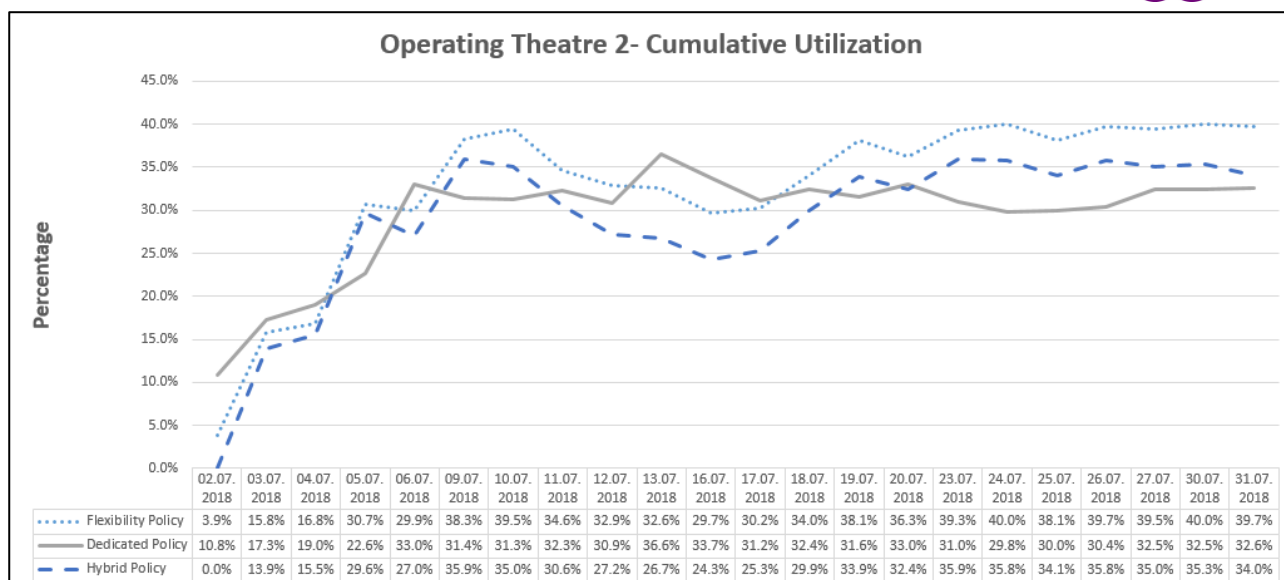


Figure 55: Cumulative Utilization - Flexibility Policy, Dedicated Policy and Hybrid Policy (Operating Theatre 2)

Table 30 in **Appendix A** provide the cumulative utilization results obtained for all three simulation models for operating theatre 3. Here the cumulative utilization of the flexibility policy and the dedicated policy and the flexibility policy and the hybrid policy are compared for the month of July (2 July – 31 July). The cumulative utilization of the flexibility policy, dedicated policy and the hybrid policy for operating theatre 3, is shown in **Figure 56**.

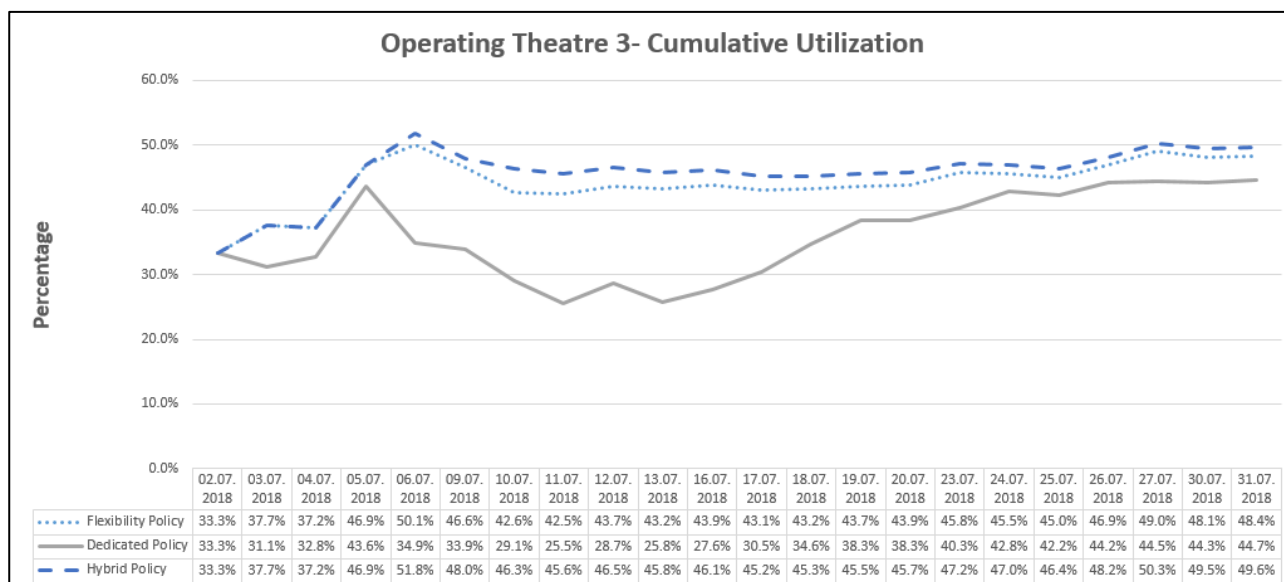


Figure 56: Cumulative Utilization - Flexibility Policy, Dedicated Policy and Hybrid Policy (Operating Theatre 3)

Table 31 in **Appendix A** provides the cumulative utilization results obtained for all three simulation models for operating theatre 1. Here the cumulative utilization of the flexibility policy and the dedicated policy and the flexibility policy and the hybrid policy is compared to one another for the

month of July (2 July – 31 July). The cumulative utilization of the flexibility policy, dedicated policy and the hybrid policy for operating theatre 4, is shown in **Figure 547**

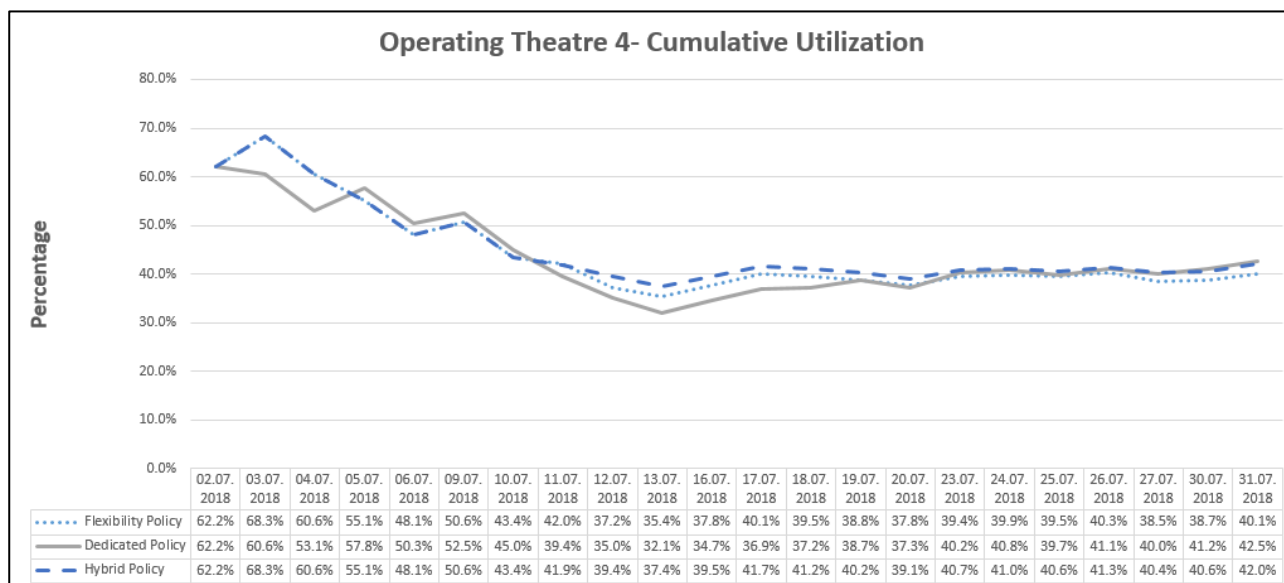


Figure 57: Cumulative Utilization - Flexibility Policy, Dedicated Policy and Hybrid Policy (Operating Theatre 4)

6.3. Results Discussion

The cumulative utilization results obtained from model 2, simulating the dedicated policy clearly indicates that by dedicating operating theatre to non-elective patient only causes the cumulative utilization of operating theatre to go down with 7.1% resulting in a cumulative utilization of 32.6% in comparison with the 39.7% obtained by the flexibility policy as shown in **Table 31**. It can also be observed that by dedicating operating theatre 2 to non-elective patients only and moving all other surgeries that was scheduled in operating theatre 2 for elective patients to operating theatre 1, 3 and 4 caused an increase in the cumulative utilization of those theatres. Even though the cumulative utilization increased for operating theatre 1 and 4, it is important to keep in mind the delays and overtime caused for surgeries as indicated in **Table 21** when the dedicated policy was implemented.

The cumulative utilization results obtained from model 3, simulating the hybrid policy clearly indicates that by dedicating operating theatre to elective patient and to general surgeries only causes the cumulative utilization of operating theatre to go down with 5.7% resulting in a cumulative utilization of 34.0% in comparison with the 39.7% obtained by the flexibility policy as shown in **Table 31**. It can also be observed that by dedicating operating theatre 2 to elective patients and general surgeries only and moving all other surgeries that was scheduled in operating theatre 2 for elective and non-elective patients to operating theatre 1, 3 and 4 caused an increase in the cumulative utilization of those theatres. Even though the cumulative utilization increased for operating theatre 1, 3 and 4, it is important to keep in mind the delays and overtime caused for surgeries as indicated in **Table 23** when the dedicated policy was implemented.

With hospital cost increasing very rapidly very important strategic decisions needs to be made with regard to the allocation of operating theatres to ensure they are efficiently utilized. By using the flexibility policy it helps to ensure that theatres are utilized by both elective and non-elective patients, not causing a specific operating theatre to be fully dependant on the arrival of non-elective patients like in the case of the dedicating policy where one operating theatre is dedicated to non-elective surgeries only. However, with the flexibility policy it may happen that there can be a delay in starting with a non-elective surgery that arrived due to the fact that the non-elective surgery will have to wait for the first available operating theatre for there are not a specific operating theatre dedicated to non-elective surgeries in this case. When using the dedicated policy it will help to reduce the uncertainty and chances of a delay in the theatre schedule for elective patients due to the fact that they will not be interrupted by non-elective surgeries for non-elective surgeries in this case has its own dedicated operating theatre, By looking at the results obtained by this study it is clear that when one move from the flexibility policy to the dedicated policy the waiting time for patients both elective and non-elective increases in terms of the delay caused in surgeries but the uncertainty in operating theatre schedules decreases, With the results in mind it is recommend that the hospital consider implementing the hybrid policy. By implementing this policy a combination of the flexibility and dedicated policy can be used to help ensure a balance between scheduling elective patients, responding to the arrival of non-elective patients and to contribute towards the utilization of the operating theatres.

Table 24: Result Discussion

	Operating Theatre 1 Cumulative Utilization [%]	Operating Theatre 1 Cumulative Utilization [%]	Operating Theatre 1 Cumulative Utilization [%]	Operating Theatre 1 Cumulative Utilization [%]
Flexibility Policy	32.1	39.7	48.4	40.1
Dedicated Policy	37.2	32.6	44.7	42.5
Hybrid Policy	34.7	34.0	49.6	42.0

6.4. Chapter Summary

In this chapter a brief overview was given of the research results obtained by the three simulation models and how the results compare to one another. In the next chapter the verification of the results is discussed.

Chapter 7: Conclusions and Recommendations

7.1. Conclusions

The problem that was addressed in this study was that the unforeseen nature of non-elective patient arriving causes a thoroughly planned schedule to change having an influence on high efficiency rates, good utilization and minimized waiting time between surgeries. Therefore, the purpose of this study was to determine which non-elective patient allocation policy will best suit this private hospital ensuring a balance between scheduling elective patients, responding to the arrival of non-elective patients and to contribute towards the utilization of the operating theatres.

The following objectives were to be followed to achieve the purpose of this study: investigating the current non-elective patient allocation policy used in this private hospital, explore and extract the standards, rules and regulations that should be taken into consideration when designing a theatre schedule and finally selecting a non-elective patient allocation policy to ensure the highest scheduling efficiency, resource utilization and minimized waiting time between surgeries.

A simulation model was developed based on the flexibility policy to investigate the current non-elective patient allocation policy used by the private hospital. The cumulative utilization for the month of July (2 July – 31 July) was determined since this was the data collected. After the model was verified by comparing the simulation results and the theoretical calculated utilization and verifying the patient's pathway thru the simulation it was used as decision model to evaluate different policies such as the dedicated and hybrid policy, testing various scenarios and their effect on the key performance indicators. Three simulation models in total was developed. Building this models, the important standards, rules and regulations related to operating theatres has to be taken into consideration. By simulating the different policies, it enabled the researcher, to make a recommendation of which theatre allocation policy for non-elective patients arriving in a private hospital would be best suited for this hospital. The simulation model was setup in such a way that new data for different scenarios can be copied into the model and with minor changes you will be able to obtain results.

The cumulative utilization results obtained for the dedicated policy clearly indicates that for the month of July (2 July – 31 July) by dedicating an operating theatre to non-elective patients it would have caused the cumulative utilization of that specific operating theatre to go down with 7.1% whereas implementing the hybrid policy the cumulative utilization only went down with 5.7% with an increase in the cumulative utilization of the other operating theatres. The flexibility policy may cause a delay for non-elective surgeries to start because they have to wait for the first available operating theatre. Whereas using the dedicated policy it will help to reduce the uncertainty and chances of a delay in the theatre schedule for elective patients due to the fact that they will not be interrupted by non-elective surgeries for non-elective surgeries in this case has its own dedicated operating theatre.

Thus, in conclusion, based on the results obtained in this study, it is recommended that the hospital should consider implementing the hybrid policy for it will help to ensure a balance between scheduling elective patients, responding to the arrival of non-elective patients and to contribute towards the utilization of the operating theatres.

7.2. Recommendations

In terms of determining which non-elective patient allocation policy will best suit this private hospital the following recommendation can be made:

- ❖ Research can be done on developing a forecasting model consisting of statistical and mathematical algorithms to help determine a future state operating theatre schedule.

7.3. Future Research

In terms of future study, the following recommendations can be made:

- ❖ To develop an interactive, Excel sheet, where changes can be made directly influencing the simulation model, enabling the hospital management to run different scenarios and determine the effect thereof without having to change parameters within the simulation model itself.
- ❖ To perform a detailed cost analysis enabling the hospital to determine which policy will be most cost effective.
- ❖ To alter the simulation model in such a way that proposed expansion of the hospital can be taken into consideration when running different scenarios.
- ❖ To analyse the trade-off between the KPIs for the operating theatre by collecting more data than available during this study.

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Appendix A: Research Results

Table 25: Flexibility policy - Daily and Cumulative Utilization

Date	Theatre 1		Theatre 2		Theatre 3		Theatre 4	
	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]
02.07.2018	6.9	6.9	3.9	3.9	33.3	33.3	62.2	62.2
03.07.2018	0	3.5	27.8	15.8	42.1	37.7	74.3	68.3
04.07.2018	15.1	7.4	18.6	16.8	36.1	37.2	45.4	60.6
05.07.2018	73.9	24	72.5	30.7	76.3	46.9	38.3	55.1
06.07.2018	12.5	21.7	26.5	29.9	62.6	50.1	20.1	48.1
09.07.2018	18.8	21.2	80.6	38.3	29	46.6	63.5	50.6
10.07.2018	0	18.2	46.4	39.5	18.8	42.6	0	43.4
11.07.2018	18.1	18.2	0	34.6	40.7	42.5	31	42
12.07.2018	38.1	20.4	19.6	32.9	54.3	43.7	0	37.2
13.07.2018	34.4	21.8	30.4	32.6	38.8	43.2	19.2	35.4
16.07.2018	66.3	25.9	0	29.7	49.9	43.9	61	37.8
17.07.2018	43.2	27.3	36.7	30.2	34.9	43.1	65.8	40.1
18.07.2018	14	26.2	84.4	34	46.8	43.2	35.7	39.5
19.07.2018	41.3	27.3	83.2	38.1	47.9	43.7	27.4	38.8
20.07.2018	37.9	28	11	36.3	47.8	43.9	18.4	37.8
23.07.2018	61.3	29.8	88.3	39.3	77.2	45.8	65.1	39.4
24.07.2018	47.1	31.1	47.9	40	43.3	45.5	45.8	39.9
25.07.2018	17.2	30.3	5.6	38.1	37.2	45	33.2	39.5
26.07.2018	37.2	30.7	66.5	39.7	80.1	46.9	53.8	40.3
27.07.2018	29.7	30.6	38.2	39.5	89	49	4.6	38.5
30.07.2018	45.6	31.5	44.7	40	34.4	48.1	41.8	38.7
31.07.2018	48.8	32.1	36.9	39.7	51.9	48.4	72.1	40.1

Table 26: Dedicated policy - Daily and Cumulative Utilization

Date	Theatre 1		Theatre 2		Theatre 3		Theatre 4	
	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]
02.07.2018	0	0	10.8	10.8	33.3	33.3	62.2	62.2
03.07.2018	27.8	13.9	23.8	17.3	28.9	31.1	58.9	60.6
04.07.2018	18.6	15.5	22.4	19	36.1	32.8	38.2	53.1
05.07.2018	54.3	25.2	38.3	22.6	76.3	43.6	72.1	57.8
06.07.2018	23.1	24.8	74.6	33	0	34.9	20.1	50.3
09.07.2018	80.6	34.1	18.8	31.4	29	33.9	63.5	52.5
10.07.2018	29.4	33.4	35.7	31.3	0	29.1	0	45
11.07.2018	55.4	36.1	34.3	32.3	0	25.5	0	39.4
12.07.2018	38.1	36.4	19.6	30.9	54.3	28.7	0	35
13.07.2018	29.3	35.7	87.8	36.6	0	25.8	5.7	32.1
16.07.2018	66.3	38.4	4.3	33.7	45.6	27.6	61	34.7
17.07.2018	49.2	39.3	7.5	31.2	62.2	30.5	61.7	36.9
18.07.2018	0	36.3	48.5	32.4	84.4	34.6	40	37.2
19.07.2018	41.3	36.7	16.4	31.6	83.2	38.3	58.9	38.7
20.07.2018	11	34.9	52.8	33	38.3	38.3	17.4	37.3
23.07.2018	100	39	9.3	31	77.2	40.3	83.1	40.2
24.07.2018	47.1	39.7	13.6	29.8	77.6	42.8	45.8	40.8
25.07.2018	0	37.3	30	30	37.2	42.2	26	39.7
26.07.2018	61.9	38.6	29	30.4	80.1	44.2	66.5	41.1
27.07.2018	11	37.2	80.7	32.5	49	44.5	19.3	40
30.07.2018	26.4	36.7	33.5	32.5	41.4	44.3	63.9	41.2
31.07.2018	48.8	37.2	29.9	32.6	51.9	44.7	78.1	42.5

Table 27: Hybrid policy - Daily and Cumulative Utilization

Date	Theatre 1		Theatre 2		Theatre 3		Theatre 4	
	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]	Daily Utilization [%]	Cumulative Utilization [%]
02.07.2018	10.8	10.8	0	0	33.3	33.3	62.2	62.2
03.07.2018	0	5.4	27.8	13.9	42.1	37.7	68.3	68.3
04.07.2018	15.1	8.7	18.6	15.5	36.1	37.2	45.4	60.6
05.07.2018	73.9	25	72.1	29.6	76.3	46.9	38.3	55.1
06.07.2018	13.6	22.7	16.7	27	71.4	51.8	20.1	48.1
09.07.2018	18.8	22.1	80.6	35.9	46	48	63.5	50.6
10.07.2018	0	18.9	29.4	35	35.7	46.3	0	43.4
11.07.2018	18.1	18.8	0	30.6	40.7	45.6	31	41.9
12.07.2018	38.1	20.9	0	27.2	54.3	46.5	16.8	39.4
13.07.2018	20.5	23.1	22.2	26.7	38.8	45.8	19.2	37.4
16.07.2018	66.3	27	0	24.3	49.9	46.1	61	39.5
17.07.2018	43.2	28.4	36.7	25.3	34.9	45.2	65.8	41.7
18.07.2018	14	27.3	84.4	29.9	46.8	45.3	35.7	41.2
19.07.2018	41.3	28.3	83.2	33.9	47.9	45.5	27.4	40.2
20.07.2018	37.9	28.9	11	32.4	47.8	45.7	18.4	39.1
23.07.2018	61.3	30.9	88.3	35.9	77.2	47.2	65.1	40.7
24.07.2018	60.7	32.7	34.3	35.8	43.3	47	45.8	41
25.07.2018	17.2	31.8	5.6	34.1	37.2	46.4	33.2	40.6
26.07.2018	37.2	32.1	66.5	35.8	80.1	48.2	53.8	41.3
27.07.2018	29.7	32	19.3	35	89	50.3	23.5	40.4
30.07.2018	45.6	32.6	41.4	35.3	34.4	49.5	45.1	40.6
31.07.2018	65.7	34.7	7.1	34	51.9	49.6	72.1	42

Table 28: Result Comparison - Operating Theatre 1

Date	Operating Theatre 1 Cumulative Utilization [%]		
	Flexibility Policy	Dedicated Policy	Hybrid Policy
02.07.2018	6.9	0	10.8
03.07.2018	3.5	13.9	5.4
04.07.2018	7.4	15.5	8.7
05.07.2018	24	25.2	25
06.07.2018	21.7	24.8	22.7
09.07.2018	21.2	34.1	22.1
10.07.2018	18.2	33.4	18.9
11.07.2018	18.2	36.1	18.8
12.07.2018	20.4	36.4	20.9
13.07.2018	21.8	35.7	23.1
16.07.2018	25.9	38.4	27
17.07.2018	27.3	39.3	28.4
18.07.2018	26.2	36.3	27.3
19.07.2018	27.3	36.7	28.3
20.07.2018	28	34.9	28.9
23.07.2018	29.8	39	30.9
24.07.2018	31.1	39.7	32.7
25.07.2018	30.3	37.3	31.8
26.07.2018	30.7	38.6	32.1
27.07.2018	30.6	37.2	32
30.07.2018	31.5	36.7	32.6
31.07.2018	32.1	37.2	34.7

Table 29: Result Comparison - Operating Theatre 2

Date	Operating Theatre 2 Cumulative Utilization [%]		
	Flexibility Policy	Dedicated Policy	Hybrid Policy
02.07.2018	3.9	10.8	0
03.07.2018	15.8	17.3	13.9
04.07.2018	16.8	19	15.5
05.07.2018	30.7	22.6	29.6
06.07.2018	29.9	33	27
09.07.2018	38.3	31.4	35.9
10.07.2018	39.5	31.3	35
11.07.2018	34.6	32.3	30.6
12.07.2018	32.9	30.9	27.2
13.07.2018	32.6	36.6	26.7
16.07.2018	29.7	33.7	24.3
17.07.2018	30.2	31.2	25.3
18.07.2018	34	32.4	29.9
19.07.2018	38.1	31.6	33.9
20.07.2018	36.3	33	32.4
23.07.2018	39.3	31	35.9
24.07.2018	40	29.8	35.8
25.07.2018	38.1	30	34.1
26.07.2018	39.7	30.4	35.8
27.07.2018	39.5	32.5	35
30.07.2018	40	32.5	35.3
31.07.2018	39.7	32.6	34

Table 30: Result Comparison - Operating Theatre 3

Date	Operating Theatre 3 Cumulative Utilization [%]		
	Flexibility Policy	Dedicated Policy	Hybrid Policy
02.07.2018	33.3	33.3	33.3
03.07.2018	37.7	31.1	37.7
04.07.2018	37.2	32.8	37.2
05.07.2018	46.9	43.6	46.9
06.07.2018	50.1	34.9	51.8
09.07.2018	46.6	33.9	48
10.07.2018	42.6	29.1	46.3
11.07.2018	42.5	25.5	45.6
12.07.2018	43.7	28.7	46.5
13.07.2018	43.2	25.8	45.8
16.07.2018	43.9	27.6	46.1
17.07.2018	43.1	30.5	45.2
18.07.2018	43.2	34.6	45.3
19.07.2018	43.7	38.3	45.5
20.07.2018	43.9	38.3	45.7
23.07.2018	45.8	40.3	47.2
24.07.2018	45.5	42.8	47
25.07.2018	45	42.2	46.4
26.07.2018	46.9	44.2	48.2
27.07.2018	49	44.5	50.3
30.07.2018	48.1	44.3	49.5
31.07.2018	48.4	44.7	49.6

Table 31: Result Comparison - Operating Theatre 4

Date	Operating Theatre 4 Cumulative Utilization [%]		
	Flexibility Policy	Dedicated Policy	Hybrid Policy
02.07.2018	62.2	62.2	62.2
03.07.2018	68.3	60.6	68.3
04.07.2018	60.6	53.1	60.6
05.07.2018	55.1	57.8	55.1
06.07.2018	48.1	50.3	48.1
09.07.2018	50.6	52.5	50.6
10.07.2018	43.4	45	43.4
11.07.2018	42	39.4	41.9
12.07.2018	37.2	35	39.4
13.07.2018	35.4	32.1	37.4
16.07.2018	37.8	34.7	39.5
17.07.2018	40.1	36.9	41.7
18.07.2018	39.5	37.2	41.2
19.07.2018	38.8	38.7	40.2
20.07.2018	37.8	37.3	39.1
23.07.2018	39.4	40.2	40.7
24.07.2018	39.9	40.8	41
25.07.2018	39.5	39.7	40.6
26.07.2018	40.3	41.1	41.3
27.07.2018	38.5	40	40.4
30.07.2018	38.7	41.2	40.6
31.07.2018	40.1	42.5	42

Appendix B: Data Verification

Table 32: Flexibility policy Data Verification

	Operating Theatre	Theoretically Calculated Utilization [%]	Simulation Model Utilization [%]	Difference [%]
02.07.2018	1	6.9	6.9	0
	2	3.9	3.9	0
	3	33.3	33.3	0
	4	62.2	62.2	0
03.07.2018	1	3.5	3.5	0
	2	15.8	15.8	0
	3	37.7	37.7	0
	4	68.3	68.3	0
04.07.2018	1	7.4	7.4	0
	2	16.8	16.8	0
	3	37.2	37.2	0
	4	60.6	60.6	0
05.07.2018	1	24.0	24.0	0
	2	30.7	30.7	0
	3	46.9	46.9	0
	4	55.1	55.1	0
06.07.2018	1	21.7	21.7	0
	2	29.9	29.9	0
	3	50.1	50.1	0
	4	48.1	48.1	0
09.07.2018	1	21.2	21.2	0
	2	38.3	38.3	0
	3	46.6	46.6	0
	4	50.6	50.6	0
10.07.2018	1	18.2	18.2	0
	2	39.5	39.5	0
	3	42.6	42.6	0
	4	43.4	43.4	0
11.07.2018	1	18.2	18.2	0
	2	34.5	34.6	0.1
	3	42.4	42.5	0.1

	4	41.9	42.0	0.1
12.07.2018	1	20.4	20.4	0
	2	32.9	32.9	0
	3	43.7	43.7	0
	4	37.2	37.2	0
	4	37.2	37.2	0
13.07.2018	1	21.8	21.8	0
	2	32.6	32.6	0
	3	43.2	43.2	0
	4	35.4	35.4	0
	4	35.4	35.4	0
16.07.2018	1	25.8	25.9	0.1
	2	29.7	29.7	0
	3	43.8	43.9	0.1
	4	37.7	37.8	0.1
	4	37.7	37.8	0.1
17.07.2018	1	27.3	27.3	0
	2	30.2	30.2	0
	3	43.1	43.1	0
	4	40.1	40.1	0
	4	40.1	40.1	0
18.07.2018	1	26.3	26.2	-0.1
	2	34.4	34.0	-0.4
	3	43.3	43.2	-0.1
	4	39.7	39.5	-0.2
	4	39.7	39.5	-0.2
19.07.2018	1	27.3	27.3	0
	2	37.9	38.1	0.2
	3	43.7	43.7	0
	4	38.8	38.8	0
	4	38.8	38.8	0
20.07.2018	1	28	28.0	0
	2	36.1	36.3	0.2
	3	43.9	43.9	0
	4	37.4	37.8	0.4
	4	37.4	37.8	0.4
23.07.2018	1	30.1	29.8	-0.3
	2	39.4	39.3	-0.1
	3	46.0	45.8	-0.2
	4	39.1	39.4	0.3
	4	39.1	39.4	0.3
24.07.2018	1	31.1	31.1	0
	2	39.9	40.0	0.1
	3	45.9	45.5	-0.4
	4	39.5	39.9	0.4
	4	39.5	39.9	0.4

25.07.2018	1	30.3	30.3	0
	2	38.0	38.1	0.1
	3	45.4	45.0	-0.4
	4	39.2	39.5	0.3
26.07.2018	1	30.7	30.7	0
	2	39.5	39.7	0.2
	3	47.2	46.9	-0.3
	4	39.2	40.3	1.1
27.07.2018	1	30.7	30.6	-0.1
	2	39.4	39.5	0.1
	3	49.3	49.0	-0.3
	4	38.2	38.5	0.3
30.07.2018	1	31.4	31.5	0.1
	2	39.7	40.0	0.3
	3	48.6	48.1	-0.5
	4	38.4	38.7	0.3
31.07.2018	1	32.1	32.1	0
	2	39.5	39.7	0.2
	3	48.8	48.4	-0.4
	4	39.9	40.1	0.2

Table 33: Dedicated policy Data Verification

	Operating Theatre	Theoretically Calculated Utilization [%]	Simulation Model Utilization [%]	Difference [%]
02.07.2018	1	0	0	0
	2	10.8	10.8	0
	3	33.3	33.3	0
	4	62.2	62.2	0
03.07.2018	1	13.9	13.9	0
	2	17.3	17.3	0
	3	31.1	31.1	0
	4	60.6	60.6	0
04.07.2018	1	15.5	15.5	0
	2	19.0	19.0	0
	3	32.8	32.8	0
	4	53.1	53.1	0
05.07.2018	1	25.2	25.2	0
	2	23.8	22.6	-1.2
	3	43.6	43.6	0
	4	57.8	57.8	0
06.07.2018	1	24.8	24.8	0
	2	34.0	33.0	-1
	3	34.9	34.9	0
	4	50.3	50.3	0
09.07.2018	1	34.1	34.1	0
	2	31.7	31.4	-0.3
	3	33.9	33.9	0
	4	52.5	52.5	0
10.07.2018	1	33.4	33.4	0
	2	32.0	31.3	-0.7
	3	29.1	29.1	0
	4	45.0	45.0	0
11.07.2018	1	36.1	36.1	0
	2	32.3	32.3	0
	3	25.5	25.5	0

	4	39.4	39.4	0
12.07.2018	1	36.4	36.4	0
	2	30.9	30.9	0
	3	28.7	28.7	0
	4	35.0	35.0	0
13.07.2018	1	35.7	35.7	0
	2	36.6	36.6	0
	3	25.8	25.8	0
	4	32.1	32.1	0
16.07.2018	1	38.4	38.4	0
	2	33.7	33.7	0
	3	27.6	27.6	0
	4	34.7	34.7	0
17.07.2018	1	39.3	39.3	0
	2	31.5	31.2	-0.3
	3	30.5	30.5	0
	4	36.9	36.9	0
18.07.2018	1	36.3	36.3	0
	2	32.8	32.4	-0.4
	3	34.6	34.6	0
	4	37.2	37.2	0
19.07.2018	1	36.7	36.7	0
	2	31.6	31.6	0
	3	38.1	38.3	0.2
	4	38.7	38.7	0
20.07.2018	1	34.9	34.9	0
	2	33.0	33.0	0
	3	38.1	38.3	0.2
	4	37.3	37.3	0
23.07.2018	1	39.0	39.0	0
	2	31.5	31.0	-0.5
	3	40.6	40.3	-0.3
	4	40.2	40.2	0
24.07.2018	1	39.5	39.7	0.2
	2	30.5	29.8	-0.7
	3	42.7	42.8	0.1
	4	40.5	40.8	0.3

25.07.2018	1	37.3	37.3	0
	2	30.5	30.0	-0.5
	3	42.4	42.2	-0.2
	4	39.7	39.7	0
26.07.2018	1	38.6	38.6	0
	2	30.4	30.4	0
	3	44.4	44.2	-0.2
	4	41.1	41.1	0
27.07.2018	1	37.2	37.2	0
	2	32.9	32.5	-0.4
	3	44.6	44.5	-0.1
	4	40.0	40.0	0
30.07.2018	1	36.7	36.7	0
	2	32.9	32.5	-0.4
	3	44.5	44.3	-0.2
	4	41.2	41.2	0
31.07.2018	1	37.2	37.2	0
	2	32.8	32.6	-0.2
	3	44.8	44.7	-0.1
	4	42.8	42.5	-0.3

Table 34: Hybrid policy Data Verification

	Operating Theatre	Theoretically Calculated Utilization [%]	Simulation Model Utilization [%]	Difference [%]
02.07.2018	1	10.8	10.8	0
	2	0	0	0
	3	33.3	33.3	0
	4	62.2	62.2	0
03.07.2018	1	5.4	5.4	0
	2	13.9	13.9	0
	3	37.7	37.7	0
	4	68.3	68.3	0
04.07.2018	1	8.7	8.7	0
	2	15.5	15.5	0
	3	37.2	37.2	0
	4	60.6	60.6	0
05.07.2018	1	25.0	25.0	0
	2	29.6	29.6	0
	3	46.9	46.9	0
	4	55.1	55.1	0
06.07.2018	1	22.7	22.7	0
	2	27.0	27.0	0
	3	51.8	51.8	0
	4	48.1	48.1	0
09.07.2018	1	22.0	22.1	0.1
	2	35.9	35.9	0
	3	48.0	48.0	0
	4	50.6	50.6	0
10.07.2018	1	18.9	18.9	0
	2	35.0	35.0	0
	3	46.3	46.3	0
	4	43.4	43.4	0
11.07.2018	1	18.8	18.8	0
	2	30.6	30.6	0
	3	45.6	45.6	0

	4	41.9	41.9	0
12.07.2018	1	20.9	20.9	0
	2	27.2	27.2	0
	3	46.5	46.5	0
	4	39.4	39.4	0
	4	39.4	39.4	0
13.07.2018	1	23.1	23.1	0
	2	26.7	26.7	0
	3	45.8	45.8	0
	4	37.4	37.4	0
16.07.2018	1	27.0	27.0	0
	2	24.3	24.3	0
	3	46.1	46.1	0
	4	39.5	39.5	0
17.07.2018	1	28.4	28.4	0
	2	25.3	25.3	0
	3	45.2	45.2	0
	4	41.7	41.7	0
18.07.2018	1	27.3	27.3	0
	2	29.9	29.9	0
	3	45.3	45.3	0
	4	41.2	41.2	0
19.07.2018	1	28.3	28.3	0
	2	33.7	33.9	0.2
	3	45.5	45.5	0
	4	40.2	40.2	0
20.07.2018	1	28.9	28.9	0
	2	32.2	32.4	0.2
	3	45.7	45.7	0
	4	38.7	39.1	0.4
23.07.2018	1	30.9	30.9	0
	2	35.7	35.9	0.2
	3	47.6	47.2	-0.4
	4	40.4	40.7	0.3
24.07.2018	1	32.7	32.7	0
	2	35.6	35.8	0.2
	3	47.4	47.0	-0.4
	4	40.7	41.0	0.3

25.07.2018	1	31.8	31.8	0
	2	33.9	34.1	0.2
	3	46.8	46.4	-0.4
	4	40.3	40.6	0.3
26.07.2018	1	32.1	32.1	0
	2	35.7	35.8	0.1
	3	48.6	48.2	-0.4
	4	41.0	41.3	0.3
27.07.2018	1	32.0	32.0	0
	2	34.8	35.0	0.2
	3	50.6	50.3	-0.3
	4	40.1	40.4	0.3
30.07.2018	1	32.6	32.6	0
	2	35.1	35.3	0.2
	3	49.8	49.5	-0.3
	4	40.4	40.6	0.2
31.07.2018	1	34.7	34.7	0
	2	33.9	34.0	0.1
	3	49.9	49.6	-0.3
	4	41.8	42.0	0.2

Appendix C: Flexibility Policy Simulation Model Coding

(i) Code: Queue – non-elective patients

```

Object item = param(1);
Object current = ownerobject(c);
/**popup:ValuesByCase:hasitem=1:valustr=Port:doreturn=1*/
/**Port By Case*/
int case_val = /** \nCase Function: *//**tag:ValueFunc*//**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: *//**/1/**/: return /** Port: *//**/1
/**/;
case /**\nCase: *//**/2/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/16/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/21/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/32/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/33/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/34/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/42/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/51/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/52/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/53/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/60/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/65/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/66/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/68/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/70/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/71/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/72/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/73/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/74/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/75/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/76/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/81/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/82/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/83/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/108/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/109/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/107/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/110/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/121/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/122/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/120/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/127/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/128/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/129/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/136/**/: return /** Port: *//**/2/**/;
case /**\nCase: *//**/140/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/141/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/145/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/146/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/142/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/143/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/134/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/135/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/156/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/189/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/179/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/190/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/191/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/207/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/208/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/206/**/: return /** Port: *//**/3/**/;
case /**\nCase: *//**/192/**/: return /** Port: *//**/1/**/;
case /**\nCase: *//**/209/**/: return /** Port: *//**/4/**/;
case /**\nCase: *//**/223/**/: return /** Port: *//**/4/**/;

```

```

case /**\nCase: */**/222/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/226/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/227/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/228/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/236/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/232/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/240/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/271/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/272/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/285/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/286/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/287/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/299/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/318/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/319/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/304/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/305/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/327/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/328/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/325/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/326/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/335/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/336/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/338/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/344/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/343/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/361/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/352/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/367/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/368/**/: return /** Port: */**/2/**/;/***/**/ /**/
default: return /** \nDefault Port: */***/tag:default*/***/1/**/;break;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\n case 1: return 2;*/
return 0;

```

(ii) Code: Processor - Operating Theatre 1

```

Object current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */***/tag:ValueFunc*/***/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */***/1/**/: return /** Time: */***/50/**/;
case /**\nCase: */***/33/**/: return /** Time: */***/Table("OR1")[2][12]/**/;
case /**\nCase: */***/34/**/: return /** Time: */***/Table("OR1")[3][12]/**/;
case /**\nCase: */***/45/**/: return /** Time: */***/Table("OR1")[4][12]/**/;
case /**\nCase: */***/46/**/: return /** Time: */***/Table("OR1")[5][12]/**/;
case /**\nCase: */***/47/**/: return /** Time: */***/Table("OR1")[6][12]/**/;
case /**\nCase: */***/48/**/: return /** Time: */***/Table("OR1")[7][12]/**/;
case /**\nCase: */***/49/**/: return /** Time: */***/Table("OR1")[8][12]/**/;
case /**\nCase: */***/50/**/: return /** Time: */***/Table("OR1")[9][12]/**/;
case /**\nCase: */***/51/**/: return /** Time: */***/Table("OR1")[10][12]/**/;
case /**\nCase: */***/52/**/: return /** Time: */***/Table("OR1")[11][12]/**/;
case /**\nCase: */***/53/**/: return /** Time: */***/Table("OR1")[12][12]/**/;
case /**\nCase: */***/67/**/: return /** Time: */***/Table("OR1")[13][12]/**/;
case /**\nCase: */***/68/**/: return /** Time: */***/Table("OR1")[14][12]/**/;
case /**\nCase: */***/81/**/: return /** Time: */***/Table("OR1")[15][12]/**/;
case /**\nCase: */***/82/**/: return /** Time: */***/Table("OR1")[16][12]/**/;
case /**\nCase: */***/83/**/: return /** Time: */***/Table("OR1")[17][12]/**/;
case /**\nCase: */***/111/**/: return /** Time: */***/Table("OR1")[18][12]/**/;
case /**\nCase: */***/123/**/: return /** Time: */***/Table("OR1")[19][12]/**/;
case /**\nCase: */***/124/**/: return /** Time: */***/Table("OR1")[20][12]/**/;

```

```

case /**\nCase: */**/125/**: return /** Time: */**/Table("OR1") [21] [12] /**/;
case /**\nCase: */**/126/**: return /** Time: */**/93/**/;
case /**\nCase: */**/132/**: return /** Time: */**/Table("OR1") [23] [12] /**/;
case /**\nCase: */**/133/**: return /** Time: */**/Table("OR1") [24] [12] /**/;
case /**\nCase: */**/134/**: return /** Time: */**/Table("OR1") [25] [12] /**/;
case /**\nCase: */**/135/**: return /** Time: */**/Table("OR1") [26] [12] /**/;
case /**\nCase: */**/147/**: return /** Time: */**/Table("OR1") [27] [12] /**/;
case /**\nCase: */**/148/**: return /** Time: */**/Table("OR1") [28] [12] /**/;
case /**\nCase: */**/149/**: return /** Time: */**/Table("OR1") [29] [12] /**/;
case /**\nCase: */**/150/**: return /** Time: */**/Table("OR1") [30] [12] /**/;
case /**\nCase: */**/151/**: return /** Time: */**/Table("OR1") [31] [12] /**/;
case /**\nCase: */**/167/**: return /** Time: */**/Table("OR1") [32] [12] /**/;
case /**\nCase: */**/168/**: return /** Time: */**/Table("OR1") [33] [12] /**/;
case /**\nCase: */**/169/**: return /** Time: */**/Table("OR1") [34] [12] /**/;
case /**\nCase: */**/190/**: return /** Time: */**/Table("OR1") [35] [12] /**/;
case /**\nCase: */**/191/**: return /** Time: */**/Table("OR1") [36] [12] /**/;
case /**\nCase: */**/192/**: return /** Time: */**/Table("OR1") [37] [12] /**/;
case /**\nCase: */**/210/**: return /** Time: */**/Table("OR1") [38] [12] /**/;
case /**\nCase: */**/211/**: return /** Time: */**/Table("OR1") [39] [12] /**/;
case /**\nCase: */**/226/**: return /** Time: */**/Table("OR1") [40] [12] /**/;
case /**\nCase: */**/227/**: return /** Time: */**/Table("OR1") [41] [12] /**/;
case /**\nCase: */**/228/**: return /** Time: */**/Table("OR1") [42] [12] /**/;
case /**\nCase: */**/237/**: return /** Time: */**/Table("OR1") [43] [12] /**/;
case /**\nCase: */**/238/**: return /** Time: */**/Table("OR1") [44] [12] /**/;
case /**\nCase: */**/239/**: return /** Time: */**/Table("OR1") [45] [12] /**/;
case /**\nCase: */**/240/**: return /** Time: */**/67/**/;
case /**\nCase: */**/263/**: return /** Time: */**/Table("OR1") [47] [12] /**/;
case /**\nCase: */**/264/**: return /** Time: */**/Table("OR1") [48] [12] /**/;
case /**\nCase: */**/265/**: return /** Time: */**/Table("OR1") [49] [12] /**/;
case /**\nCase: */**/266/**: return /** Time: */**/Table("OR1") [50] [12] /**/;
case /**\nCase: */**/285/**: return /** Time: */**/Table("OR1") [51] [12] /**/;
case /**\nCase: */**/286/**: return /** Time: */**/Table("OR1") [52] [12] /**/;
case /**\nCase: */**/287/**: return /** Time: */**/Table("OR1") [53] [12] /**/;
case /**\nCase: */**/300/**: return /** Time: */**/Table("OR1") [54] [12] /**/;
case /**\nCase: */**/301/**: return /** Time: */**/Table("OR1") [55] [12] /**/;
case /**\nCase: */**/302/**: return /** Time: */**/Table("OR1") [56] [12] /**/;
case /**\nCase: */**/303/**: return /** Time: */**/Table("OR1") [57] [12] /**/;
case /**\nCase: */**/304/**: return /** Time: */**/Table("OR1") [58] [12] /**/;
case /**\nCase: */**/305/**: return /** Time: */**/Table("OR1") [59] [12] /**/;
case /**\nCase: */**/323/**: return /** Time: */**/Table("OR1") [60] [12] /**/;
case /**\nCase: */**/324/**: return /** Time: */**/Table("OR1") [61] [12] /**/;
case /**\nCase: */**/325/**: return /** Time: */**/Table("OR1") [62] [12] /**/;
case /**\nCase: */**/326/**: return /** Time: */**/Table("OR1") [63] [12] /**/;
case /**\nCase: */**/338/**: return /** Time: */**/Table("OR1") [64] [12] /**/;
case /**\nCase: */**/339/**: return /** Time: */**/Table("OR1") [65] [12] /**/;
case /**\nCase: */**/340/**: return /** Time: */**/Table("OR1") [66] [12] /**/;
case /**\nCase: */**/341/**: return /** Time: */**/Table("OR1") [67] [12] /**/;
case /**\nCase: */**/342/**: return /** Time: */**/Table("OR1") [68] [12] /**/;
case /**\nCase: */**/343/**: return /** Time: */**/Table("OR1") [69] [12] /**/;
case /**\nCase: */**/362/**: return /** Time: */**/Table("OR1") [70] [12] /**/;
case /**\nCase: */**/363/**: return /** Time: */**/Table("OR1") [71] [12] /**/;
case /**\nCase: */**/364/**: return /** Time: */**/Table("OR1") [72] [12] /**/;
case /**\nCase: */**/365/**: return /** Time:
****/Table("OR1") [73] [12] /**/;****/****/****/****/
default: return /** \nDefault Time: ****tag:default****/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 10;*/
return 0;

```

(iii) Code: Processor - Operating Theatre 2

```

Object current = ownerobject(c);
Object item = param(1);
****popup:ValuesByCase:hasitem=1:valustr=Time*/

```

```

/**Values By Case*/
int case_val = /** \nCase Function: */****tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
    case /**\nCase: */**/2/**/: return /** Time: */**/Table("OR2") [1] [12] /**/;
    case /**\nCase: */**/12/**/: return /** Time: */**/Table("OR2") [2] [12] /**/;
    case /**\nCase: */**/13/**/: return /** Time: */**/Table("OR2") [3] [12] /**/;
    case /**\nCase: */**/14/**/: return /** Time: */**/Table("OR2") [4] [12] /**/;
    case /**\nCase: */**/15/**/: return /** Time: */**/Table("OR2") [5] [12] /**/;
    case /**\nCase: */**/35/**/: return /** Time: */**/Table("OR2") [6] [12] /**/;
    case /**\nCase: */**/36/**/: return /** Time: */**/Table("OR2") [7] [12] /**/;
    case /**\nCase: */**/54/**/: return /** Time: */**/Table("OR2") [8] [12] /**/;
    case /**\nCase: */**/55/**/: return /** Time: */**/Table("OR2") [9] [12] /**/;
    case /**\nCase: */**/56/**/: return /** Time: */**/Table("OR2") [10] [12] /**/;
    case /**\nCase: */**/57/**/: return /** Time: */**/Table("OR2") [11] [12] /**/;
    case /**\nCase: */**/58/**/: return /** Time: */**/Table("OR2") [12] [12] /**/;
    case /**\nCase: */**/59/**/: return /** Time: */**/Table("OR2") [13] [12] /**/;
    case /**\nCase: */**/60/**/: return /** Time: */**/3/**/;
    case /**\nCase: */**/69/**/: return /** Time: */**/Table("OR2") [15] [12] /**/;
    case /**\nCase: */**/70/**/: return /** Time: */**/Table("OR2") [16] [12] /**/;
    case /**\nCase: */**/71/**/: return /** Time: */**/8/**/;
    case /**\nCase: */**/84/**/: return /** Time: */**/Table("OR2") [18] [12] /**/;
    case /**\nCase: */**/85/**/: return /** Time: */**/Table("OR2") [19] [12] /**/;
    case /**\nCase: */**/86/**/: return /** Time: */**/Table("OR2") [20] [12] /**/;
    case /**\nCase: */**/87/**/: return /** Time: */**/Table("OR2") [21] [12] /**/;
    case /**\nCase: */**/89/**/: return /** Time: */**/Table("OR2") [22] [12] /**/;
    case /**\nCase: */**/90/**/: return /** Time: */**/Table("OR2") [23] [12] /**/;
    case /**\nCase: */**/91/**/: return /** Time: */**/Table("OR2") [24] [12] /**/;
    case /**\nCase: */**/92/**/: return /** Time: */**/Table("OR2") [25] [12] /**/;
    case /**\nCase: */**/105/**/: return /** Time: */**/Table("OR2") [26] [12] /**/;
    case /**\nCase: */**/106/**/: return /** Time: */**/Table("OR2") [27] [12] /**/;
    case /**\nCase: */**/107/**/: return /** Time: */**/Table("OR2") [28] [12] /**/;
    case /**\nCase: */**/127/**/: return /** Time: */**/Table("OR2") [29] [12] /**/;
    case /**\nCase: */**/128/**/: return /** Time: */**/Table("OR2") [30] [12] /**/;
    case /**\nCase: */**/129/**/: return /** Time: */**/Table("OR2") [31] [12] /**/;
    case /**\nCase: */**/136/**/: return /** Time: */**/Table("OR2") [32] [12] /**/;
    case /**\nCase: */**/137/**/: return /** Time: */**/Table("OR2") [33] [12] /**/;
    case /**\nCase: */**/138/**/: return /** Time: */**/Table("OR2") [34] [12] /**/;
    case /**\nCase: */**/139/**/: return /** Time: */**/Table("OR2") [35] [12] /**/;
    case /**\nCase: */**/170/**/: return /** Time: */**/Table("OR2") [36] [12] /**/;
    case /**\nCase: */**/171/**/: return /** Time: */**/Table("OR2") [37] [12] /**/;
    case /**\nCase: */**/172/**/: return /** Time: */**/Table("OR2") [38] [12] /**/;
    case /**\nCase: */**/173/**/: return /** Time: */**/Table("OR2") [39] [12] /**/;
    case /**\nCase: */**/193/**/: return /** Time: */**/Table("OR2") [40] [12] /**/;
    case /**\nCase: */**/194/**/: return /** Time: */**/Table("OR2") [41] [12] /**/;
    case /**\nCase: */**/195/**/: return /** Time: */**/Table("OR2") [42] [12] /**/;
    case /**\nCase: */**/196/**/: return /** Time: */**/Table("OR2") [43] [12] /**/;
    case /**\nCase: */**/197/**/: return /** Time: */**/Table("OR2") [44] [12] /**/;
    case /**\nCase: */**/198/**/: return /** Time: */**/Table("OR2") [45] [12] /**/;
    case /**\nCase: */**/199/**/: return /** Time: */**/199/**/;
    case /**\nCase: */**/212/**/: return /** Time: */**/Table("OR2") [47] [12] /**/;
    case /**\nCase: */**/213/**/: return /** Time: */**/Table("OR2") [48] [12] /**/;
    case /**\nCase: */**/214/**/: return /** Time: */**/Table("OR2") [49] [12] /**/;
    case /**\nCase: */**/215/**/: return /** Time: */**/Table("OR2") [50] [12] /**/;
    case /**\nCase: */**/216/**/: return /** Time: */**/Table("OR2") [51] [12] /**/;
    case /**\nCase: */**/217/**/: return /** Time: */**/Table("OR2") [52] [12] /**/;
    case /**\nCase: */**/218/**/: return /** Time: */**/Table("OR2") [53] [12] /**/;
    case /**\nCase: */**/219/**/: return /** Time: */**/Table("OR2") [54] [12] /**/;
    case /**\nCase: */**/229/**/: return /** Time: */**/Table("OR2") [55] [12] /**/;
    case /**\nCase: */**/241/**/: return /** Time: */**/Table("OR2") [56] [12] /**/;
    case /**\nCase: */**/242/**/: return /** Time: */**/Table("OR2") [57] [12] /**/;
    case /**\nCase: */**/243/**/: return /** Time: */**/Table("OR2") [58] [12] /**/;
    case /**\nCase: */**/244/**/: return /** Time: */**/Table("OR2") [59] [12] /**/;
    case /**\nCase: */**/245/**/: return /** Time: */**/71/**/;
    case /**\nCase: */**/267/**/: return /** Time: */**/Table("OR2") [61] [12] /**/;
    case /**\nCase: */**/268/**/: return /** Time: */**/Table("OR2") [62] [12] /**/;
    case /**\nCase: */**/269/**/: return /** Time: */**/Table("OR2") [63] [12] /**/;
    case /**\nCase: */**/270/**/: return /** Time: */**/Table("OR2") [64] [12] /**/;
    case /**\nCase: */**/271/**/: return /** Time: */**/Table("OR2") [65] [12] /**/;
}

```

```

case /**\nCase: */**/272/**/: return /** Time: */**/45/**/;
case /**\nCase: */**/288/**/: return /** Time: */**/Table("OR2") [67] [12] /**/;
case /**\nCase: */**/306/**/: return /** Time: */**/Table("OR2") [68] [12] /**/;
case /**\nCase: */**/307/**/: return /** Time: */**/Table("OR2") [69] [12] /**/;
case /**\nCase: */**/308/**/: return /** Time: */**/Table("OR2") [70] [12] /**/;
case /**\nCase: */**/309/**/: return /** Time: */**/Table("OR2") [71] [12] /**/;
case /**\nCase: */**/310/**/: return /** Time: */**/Table("OR2") [72] [12] /**/;
case /**\nCase: */**/311/**/: return /** Time: */**/Table("OR2") [73] [12] /**/;
case /**\nCase: */**/327/**/: return /** Time: */**/Table("OR2") [74] [12] /**/;
case /**\nCase: */**/328/**/: return /** Time: */**/Table("OR2") [75] [12] /**/;
case /**\nCase: */**/329/**/: return /** Time: */**/Table("OR2") [76] [12] /**/;
case /**\nCase: */**/330/**/: return /** Time: */**/Table("OR2") [77] [12] /**/;
case /**\nCase: */**/331/**/: return /** Time: */**/Table("OR2") [78] [12] /**/;
case /**\nCase: */**/332/**/: return /** Time: */**/Table("OR2") [79] [12] /**/;
case /**\nCase: */**/344/**/: return /** Time: */**/Table("OR2") [80] [12] /**/;
case /**\nCase: */**/345/**/: return /** Time: */**/Table("OR2") [81] [12] /**/;
case /**\nCase: */**/346/**/: return /** Time: */**/Table("OR2") [82] [12] /**/;
case /**\nCase: */**/347/**/: return /** Time: */**/Table("OR2") [83] [12] /**/;
case /**\nCase: */**/348/**/: return /** Time: */**/Table("OR2") [84] [12] /**/;
case /**\nCase: */**/366/**/: return /** Time: */**/Table("OR2") [85] [12] /**/;
case /**\nCase: */**/367/**/: return /** Time: */**/Table("OR2") [86] [12] /**/;
case /**\nCase: */**/368/**/: return /** Time:
*/**/Table("OR2") [87] [12] /**/; ****/ **/
default: return /** \nDefault Time: */**/tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 10;*/
return 0;

```

(iv) Code: Processor - Operating Theatre 3

```

Object current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */**tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/3/**/: return /** Time: */**/Table("OR3") [1] [12] /**/;
case /**\nCase: */**/4/**/: return /** Time: */**/Table("OR3") [2] [12] /**/;
case /**\nCase: */**/16/**/: return /** Time: */**/Table("OR3") [3] [12] /**/;
case /**\nCase: */**/17/**/: return /** Time: */**/Table("OR3") [4] [12] /**/;
case /**\nCase: */**/18/**/: return /** Time: */**/Table("OR3") [5] [12] /**/;
case /**\nCase: */**/19/**/: return /** Time: */**/Table("OR3") [6] [12] /**/;
case /**\nCase: */**/20/**/: return /** Time: */**/Table("OR3") [7] [12] /**/;
case /**\nCase: */**/21/**/: return /** Time: */**/Table("OR3") [8] [12] /**/;
case /**\nCase: */**/37/**/: return /** Time: */**/Table("OR3") [9] [12] /**/;
case /**\nCase: */**/38/**/: return /** Time: */**/Table("OR3") [10] [12] /**/;
case /**\nCase: */**/39/**/: return /** Time: */**/Table("OR3") [11] [12] /**/;
case /**\nCase: */**/40/**/: return /** Time: */**/Table("OR3") [12] [12] /**/;
case /**\nCase: */**/41/**/: return /** Time: */**/Table("OR3") [13] [12] /**/;
case /**\nCase: */**/61/**/: return /** Time: */**/Table("OR3") [14] [12] /**/;
case /**\nCase: */**/62/**/: return /** Time: */**/Table("OR3") [15] [12] /**/;
case /**\nCase: */**/63/**/: return /** Time: */**/Table("OR3") [16] [12] /**/;
case /**\nCase: */**/64/**/: return /** Time: */**/70/**/;
case /**\nCase: */**/72/**/: return /** Time: */**/Table("OR3") [18] [12] /**/;
case /**\nCase: */**/73/**/: return /** Time: */**/Table("OR3") [19] [12] /**/;
case /**\nCase: */**/74/**/: return /** Time: */**/Table("OR3") [20] [12] /**/;
case /**\nCase: */**/75/**/: return /** Time: */**/Table("OR3") [21] [12] /**/;
case /**\nCase: */**/76/**/: return /** Time: */**/98/**/;
case /**\nCase: */**/93/**/: return /** Time: */**/Table("OR3") [23] [12] /**/;
case /**\nCase: */**/94/**/: return /** Time: */**/Table("OR3") [24] [12] /**/;
case /**\nCase: */**/95/**/: return /** Time: */**/Table("OR3") [25] [12] /**/;
case /**\nCase: */**/108/**/: return /** Time: */**/Table("OR3") [26] [12] /**/;
case /**\nCase: */**/109/**/: return /** Time: */**/Table("OR3") [27] [12] /**/;
case /**\nCase: */**/110/**/: return /** Time: */**/36/**/;

```

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```

    case /**\nCase: *//**/352/**/: return /** Time: *//**/67/**/;
    case /**\nCase: *//**/369/**/: return /** Time: *//**/Table("OR3") [100] [12]/**/;
    case /**\nCase: *//**/370/**/: return /** Time: *//**/Table("OR3") [101] [12]/**/;
    case /**\nCase: *//**/371/**/: return /** Time: *//**/Table("OR3") [102] [12]/**/;
    case /**\nCase: *//**/372/**/: return /** Time: *//**/Table("OR3") [103] [12]/**/;
    case /**\nCase: *//**/373/**/: return /** Time:
*//**/Table("OR3") [104] [12]/**/;****/**/ /**/
    default: return /** \nDefault Time: *//**/tag:default*//**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 10;*/
return 0;

```

(v) Code: Processor - Operating Theatre 4

```

bject current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: *//**tag:ValueFunc*//**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
    case /**\nCase: *//**/5/**/: return /** Time: *//**/Table("OR4") [1] [12]/**/;
    case /**\nCase: *//**/6/**/: return /** Time: *//**/Table("OR4") [2] [12]/**/;
    case /**\nCase: *//**/7/**/: return /** Time: *//**/Table("OR4") [3] [12]/**/;
    case /**\nCase: *//**/8/**/: return /** Time: *//**/Table("OR4") [4] [12]/**/;
    case /**\nCase: *//**/9/**/: return /** Time: *//**/Table("OR4") [5] [12]/**/;
    case /**\nCase: *//**/10/**/: return /** Time: *//**/Table("OR4") [6] [12]/**/;
    case /**\nCase: *//**/11/**/: return /** Time: *//**/Table("OR4") [7] [12]/**/;
    case /**\nCase: *//**/22/**/: return /** Time: *//**/Table("OR4") [8] [12]/**/;
    case /**\nCase: *//**/23/**/: return /** Time: *//**/Table("OR4") [9] [12]/**/;
    case /**\nCase: *//**/24/**/: return /** Time: *//**/Table("OR4") [10] [12]/**/;
    case /**\nCase: *//**/25/**/: return /** Time: *//**/Table("OR4") [11] [12]/**/;
    case /**\nCase: *//**/26/**/: return /** Time: *//**/Table("OR4") [12] [12]/**/;
    case /**\nCase: *//**/27/**/: return /** Time: *//**/Table("OR4") [13] [12]/**/;
    case /**\nCase: *//**/28/**/: return /** Time: *//**/Table("OR4") [14] [12]/**/;
    case /**\nCase: *//**/29/**/: return /** Time: *//**/Table("OR4") [15] [12]/**/;
    case /**\nCase: *//**/30/**/: return /** Time: *//**/Table("OR4") [16] [12]/**/;
    case /**\nCase: *//**/31/**/: return /** Time: *//**/Table("OR4") [17] [12]/**/;
    case /**\nCase: *//**/32/**/: return /** Time: *//**/Table("OR4") [18] [12]/**/;
    case /**\nCase: *//**/42/**/: return /** Time: *//**/Table("OR4") [19] [12]/**/;
    case /**\nCase: *//**/43/**/: return /** Time: *//**/Table("OR4") [20] [12]/**/;
    case /**\nCase: *//**/44/**/: return /** Time: *//**/Table("OR4") [21] [12]/**/;
    case /**\nCase: *//**/65/**/: return /** Time: *//**/Table("OR4") [22] [12]/**/;
    case /**\nCase: *//**/66/**/: return /** Time: *//**/Table("OR4") [23] [12]/**/;
    case /**\nCase: *//**/77/**/: return /** Time: *//**/Table("OR4") [24] [12]/**/;
    case /**\nCase: *//**/78/**/: return /** Time: *//**/Table("OR4") [25] [12]/**/;
    case /**\nCase: *//**/79/**/: return /** Time: *//**/Table("OR4") [26] [12]/**/;
    case /**\nCase: *//**/80/**/: return /** Time: *//**/Table("OR4") [27] [12]/**/;
    case /**\nCase: *//**/96/**/: return /** Time: *//**/Table("OR4") [28] [12]/**/;
    case /**\nCase: *//**/97/**/: return /** Time: *//**/Table("OR4") [29] [12]/**/;
    case /**\nCase: *//**/98/**/: return /** Time: *//**/Table("OR4") [30] [12]/**/;
    case /**\nCase: *//**/99/**/: return /** Time: *//**/Table("OR4") [31] [12]/**/;
    case /**\nCase: *//**/100/**/: return /** Time: *//**/Table("OR4") [32] [12]/**/;
    case /**\nCase: *//**/101/**/: return /** Time: *//**/Table("OR4") [33] [12]/**/;
    case /**\nCase: *//**/102/**/: return /** Time: *//**/Table("OR4") [34] [12]/**/;
    case /**\nCase: *//**/103/**/: return /** Time: *//**/Table("OR4") [35] [12]/**/;
    case /**\nCase: *//**/104/**/: return /** Time: *//**/Table("OR4") [36] [12]/**/;
    case /**\nCase: *//**/121/**/: return /** Time: *//**/Table("OR4") [37] [12]/**/;
    case /**\nCase: *//**/122/**/: return /** Time: *//**/Table("OR4") [38] [12]/**/;
    case /**\nCase: *//**/144/**/: return /** Time: *//**/Table("OR4") [39] [12]/**/;
    case /**\nCase: *//**/145/**/: return /** Time: *//**/Table("OR4") [40] [12]/**/;
    case /**\nCase: *//**/146/**/: return /** Time: *//**/Table("OR4") [41] [12]/**/;
    case /**\nCase: *//**/157/**/: return /** Time: *//**/Table("OR4") [42] [12]/**/;
    case /**\nCase: *//**/158/**/: return /** Time: *//**/Table("OR4") [43] [12]/**/;

```

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```

    case /**\nCase: */**/381/**/: return /** Time: */**/Table("OR4") [114] [12] /**/;
    case /**\nCase: */**/382/**/: return /** Time: */**/Table("OR4") [115] [12] /**/;
    case /**\nCase: */**/383/**/: return /** Time: */**/Table("OR4") [116] [12] /**/;
    case /**\nCase: */**/384/**/: return /** Time:
*/**/Table("OR4") [117] [12] /**/;****/**/ /**/
    default: return /** \nDefault Time: */**tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 10;*/
return 0;

```

Appendix D: Dedicated Policy Simulation Model Coding

(i) Code: Queue – non-elective patients

```

Object item = param(1);
Object current = ownerobject(c);
/**popup:ValuesByCase:hasitem=1:valustr=Port:doreturn=1*/
/**Port By Case*/
int case_val = /** \nCase Function: */****tag:ValueFunc****/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
    case /**\nCase: */***/1/**/: return /** Port: */***/2
    /**/;
    case /**\nCase: */***/2/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/16/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/21/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/32/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/33/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/42/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/34/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/65/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/66/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/68/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/70/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/72/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/73/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/74/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/75/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/76/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/81/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/82/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/83/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/108/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/109/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/107/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/110/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/121/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/122/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/120/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/127/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/128/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/129/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/136/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/140/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/141/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/145/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/146/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/142/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/143/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/134/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/135/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/156/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/189/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/179/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/190/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/191/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/207/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/208/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/206/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/192/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/223/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/222/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/226/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/227/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/228/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/236/**/: return /** Port: */***/2/**/;
    case /**\nCase: */***/232/**/: return /** Port: */***/2/**/;

```

```

case /**\nCase: */**/240/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/271/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/272/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/285/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/286/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/287/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/299/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/318/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/319/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/304/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/305/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/327/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/328/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/325/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/326/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/335/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/336/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/338/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/344/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/343/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/361/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/352/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/367/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/368/**/: return /** Port: */**/2/**/;/**/
default: return /** \nDefault Port: */**/tag:default*/**/1/**/;break;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 2;*/
return 0;

```

(ii) Code: Queue – Operating Theatre 2

```

Object item = param(1);
Object current = ownerobject(c);
/**popup:ValuesByCase:hasitem=1:valustr=Port:doreturn=1*/
/**Port By Case*/
int case_val = /** \nCase Function: */**/tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/12/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/13/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/14/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/15/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/35/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/36/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/54/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/55/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/56/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/57/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/58/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/59/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/69/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/84/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/85/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/86/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/87/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/89/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/90/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/91/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/92/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/105/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/106/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/137/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/138/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/173/**/: return /** Port: */**/2/**/;

```

```

case /**\nCase: */**/170/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/171/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/172/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/139/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/193/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/194/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/195/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/196/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/197/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/198/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/212/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/213/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/214/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/215/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/216/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/217/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/218/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/219/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/229/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/241/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/243/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/244/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/242/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/267/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/268/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/269/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/270/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/288/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/306/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/307/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/308/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/309/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/310/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/311/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/329/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/330/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/331/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/332/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/345/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/346/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/347/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/348/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/366/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/199/**/: return /** Port: */**/3/**/;/**/ /**/
default: return /** \nDefault Port: */**/tag:default*/**/1/**/;break;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 2;*/
return 0;

```

(iii) Code: Queue – Operating Theatre 3

```

Object item = param(1);
Object current = ownerobject(c);
/**popup:ValuesByCase:hasitem=1:valustr=Port:doreturn=1*/
/**Port By Case*/
int case_val = /** \nCase Function: */**/tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/112/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/113/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/114/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/115/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/116/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/117/**/: return /** Port: */**/2/**/;

```

```

case /**\nCase: */**/118/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/119/**/: return /** Port: */**/2/**/;
case /**\nCase: */**/200/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/201/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/202/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/203/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/204/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/220/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/221/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/349/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/350/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/351/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/205/**/: return /** Port: */**/4/**/;/**/
default: return /** \nDefault Port: */**/tag:default*/**/1/**/;break;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 2;*/
return 0;

```

(iv) Code: Queue – Operating Theatre 4

```

Object item = param(1);
Object current = ownerobject(c);
/**popup:ValuesByCase:hasitem=1:valustr=Port:doreturn=1*/
/**Port By Case*/
int case_val = /** \nCase Function: */**tag:ValueFunc*/**item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/320/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/321/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/337/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/322/**/: return /** Port: */**/3/**/;/**/
default: return /** \nDefault Port: */**/tag:default*/**/1/**/;break;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 2;*/
return 0;

```

(v) Code: Processor – Operating Theatre 1

```

Object current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */**tag:ValueFunc*/**item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/45/**/: return /** Time: */**/Table("OR1") [4] [12]/**/;
case /**\nCase: */**/46/**/: return /** Time: */**/Table("OR1") [5] [12]/**/;
case /**\nCase: */**/47/**/: return /** Time: */**/Table("OR1") [6] [12]/**/;
case /**\nCase: */**/48/**/: return /** Time: */**/Table("OR1") [7] [12]/**/;
case /**\nCase: */**/49/**/: return /** Time: */**/Table("OR1") [8] [12]/**/;
case /**\nCase: */**/50/**/: return /** Time: */**/Table("OR1") [9] [12]/**/;
case /**\nCase: */**/67/**/: return /** Time: */**/Table("OR1") [13] [12]/**/;
case /**\nCase: */**/111/**/: return /** Time: */**/Table("OR1") [18] [12]/**/;
case /**\nCase: */**/123/**/: return /** Time: */**/Table("OR1") [19] [12]/**/;
case /**\nCase: */**/124/**/: return /** Time: */**/Table("OR1") [20] [12]/**/;
case /**\nCase: */**/125/**/: return /** Time: */**/Table("OR1") [21] [12]/**/;
case /**\nCase: */**/126/**/: return /** Time: */**/93/**/;
case /**\nCase: */**/132/**/: return /** Time: */**/Table("OR1") [23] [12]/**/;

```

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```

}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 10;*/
return 0;

```

(vi) Code: Processor – Operating Theatre 2

```

Object current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */****tag:ValueFunc****/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */***/2/**/: return /** Time: */***/Table("OR2") [1] [12]/**/;
case /**\nCase: */***/69/**/: return /** Time: */***/Table("OR2") [15] [12]/**/;
case /**\nCase: */***/70/**/: return /** Time: */***/Table("OR2") [16] [12]/**/;
case /**\nCase: */***/71/**/: return /** Time: */***/8/**/;
case /**\nCase: */***/107/**/: return /** Time: */***/Table("OR2") [28] [12]/**/;
case /**\nCase: */***/127/**/: return /** Time: */***/Table("OR2") [29] [12]/**/;
case /**\nCase: */***/128/**/: return /** Time: */***/Table("OR2") [30] [12]/**/;
case /**\nCase: */***/129/**/: return /** Time: */***/Table("OR2") [31] [12]/**/;
case /**\nCase: */***/136/**/: return /** Time: */***/Table("OR2") [32] [12]/**/;
case /**\nCase: */***/271/**/: return /** Time: */***/Table("OR2") [65] [12]/**/;
case /**\nCase: */***/272/**/: return /** Time: */***/45/**/;
case /**\nCase: */***/327/**/: return /** Time: */***/Table("OR2") [74] [12]/**/;
case /**\nCase: */***/328/**/: return /** Time: */***/Table("OR2") [75] [12]/**/;
case /**\nCase: */***/344/**/: return /** Time: */***/Table("OR2") [80] [12]/**/;
case /**\nCase: */***/367/**/: return /** Time: */***/Table("OR2") [86] [12]/**/;
case /**\nCase: */***/368/**/: return /** Time: */***/Table("OR2") [87] [12]/**/;
case /**\nCase: */***/1/**/: return /** Time: */***/50/**/;
case /**\nCase: */***/16/**/: return /** Time: */***/Table("OR3") [3] [12]/**/;
case /**\nCase: */***/32/**/: return /** Time: */***/Table("OR4") [18] [12]/**/;
case /**\nCase: */***/21/**/: return /** Time: */***/25/**/;
case /**\nCase: */***/33/**/: return /** Time: */***/Table("OR1") [2] [12]/**/;
case /**\nCase: */***/34/**/: return /** Time: */***/Table("OR1") [3] [12]/**/;
case /**\nCase: */***/42/**/: return /** Time: */***/Table("OR4") [19] [12]/**/;
case /**\nCase: */***/66/**/: return /** Time: */***/Table("OR4") [23] [12]/**/;
case /**\nCase: */***/65/**/: return /** Time: */***/Table("OR4") [22] [12]/**/;
case /**\nCase: */***/72/**/: return /** Time: */***/Table("OR3") [18] [12]/**/;
case /**\nCase: */***/73/**/: return /** Time: */***/Table("OR3") [19] [12]/**/;
case /**\nCase: */***/74/**/: return /** Time: */***/Table("OR3") [20] [12]/**/;
case /**\nCase: */***/68/**/: return /** Time: */***/Table("OR1") [14] [12]/**/;
case /**\nCase: */***/75/**/: return /** Time: */***/Table("OR3") [21] [12]/**/;
case /**\nCase: */***/76/**/: return /** Time: */***/77/**/;
case /**\nCase: */***/81/**/: return /** Time: */***/Table("OR1") [15] [12]/**/;
case /**\nCase: */***/82/**/: return /** Time: */***/Table("OR1") [16] [12]/**/;
case /**\nCase: */***/83/**/: return /** Time: */***/Table("OR1") [17] [12]/**/;
case /**\nCase: */***/108/**/: return /** Time: */***/Table("OR3") [26] [12]/**/;
case /**\nCase: */***/109/**/: return /** Time: */***/Table("OR3") [27] [12]/**/;
case /**\nCase: */***/110/**/: return /** Time: */***/36/**/;
case /**\nCase: */***/121/**/: return /** Time: */***/Table("OR4") [37] [12]/**/;
case /**\nCase: */***/122/**/: return /** Time: */***/Table("OR4") [38] [12]/**/;
case /**\nCase: */***/120/**/: return /** Time: */***/Table("OR3") [37] [12]/**/;
case /**\nCase: */***/140/**/: return /** Time: */***/Table("OR3") [40] [12]/**/;
case /**\nCase: */***/141/**/: return /** Time: */***/Table("OR3") [41] [12]/**/;
case /**\nCase: */***/142/**/: return /** Time: */***/Table("OR3") [42] [12]/**/;
case /**\nCase: */***/143/**/: return /** Time: */***/Table("OR3") [43] [12]/**/;
case /**\nCase: */***/145/**/: return /** Time: */***/Table("OR4") [40] [12]/**/;
case /**\nCase: */***/146/**/: return /** Time: */***/Table("OR4") [41] [12]/**/;
case /**\nCase: */***/134/**/: return /** Time: */***/Table("OR1") [25] [12]/**/;
case /**\nCase: */***/135/**/: return /** Time: */***/Table("OR1") [26] [12]/**/;
case /**\nCase: */***/156/**/: return /** Time: */***/Table("OR3") [48] [12]/**/;
case /**\nCase: */***/189/**/: return /** Time: */***/Table("OR4") [61] [12]/**/;
case /**\nCase: */***/179/**/: return /** Time: */***/24/**/;

```

```

case /**\nCase: */**/207/**/: return /** Time: */**/Table("OR4") [62] [12] /**/;
case /**\nCase: */**/208/**/: return /** Time: */**/Table("OR4") [63] [12] /**/;
case /**\nCase: */**/223/**/: return /** Time: */**/Table("OR4") [65] [12] /**/;
case /**\nCase: */**/222/**/: return /** Time: */**/Table("OR3") [64] [12] /**/;
case /**\nCase: */**/226/**/: return /** Time: */**/Table("OR1") [40] [12] /**/;
case /**\nCase: */**/227/**/: return /** Time: */**/Table("OR1") [41] [12] /**/;
case /**\nCase: */**/228/**/: return /** Time: */**/Table("OR1") [42] [12] /**/;
case /**\nCase: */**/232/**/: return /** Time: */**/Table("OR3") [67] [12] /**/;
case /**\nCase: */**/236/**/: return /** Time: */**/Table("OR4") [71] [12] /**/;
case /**\nCase: */**/240/**/: return /** Time: */**/67/**/;
case /**\nCase: */**/287/**/: return /** Time: */**/Table("OR1") [53] [12] /**/;
case /**\nCase: */**/299/**/: return /** Time: */**/92/**/;
case /**\nCase: */**/318/**/: return /** Time: */**/Table("OR4") [92] [12] /**/;
case /**\nCase: */**/319/**/: return /** Time: */**/Table("OR4") [93] [12] /**/;
case /**\nCase: */**/304/**/: return /** Time: */**/Table("OR1") [58] [12] /**/;
case /**\nCase: */**/305/**/: return /** Time: */**/Table("OR1") [59] [12] /**/;
case /**\nCase: */**/325/**/: return /** Time: */**/Table("OR1") [62] [12] /**/;
case /**\nCase: */**/326/**/: return /** Time: */**/Table("OR1") [63] [12] /**/;
case /**\nCase: */**/335/**/: return /** Time: */**/Table("OR3") [94] [12] /**/;
case /**\nCase: */**/336/**/: return /** Time: */**/180/**/;
case /**\nCase: */**/338/**/: return /** Time: */**/Table("OR1") [64] [12] /**/;
case /**\nCase: */**/343/**/: return /** Time: */**/Table("OR1") [69] [12] /**/;
case /**\nCase: */**/361/**/: return /** Time: */**/Table("OR4") [106] [12] /**/;
case /**\nCase: */**/352/**/: return /** Time: */**/57/**/;
case /**\nCase: */**/366/**/: return /** Time: */**/Table("OR2") [85] [12] /**/;
case /**\nCase: */**/285/**/: return /** Time: */**/Table("OR1") [51] [12] /**/;
case /**\nCase: */**/286/**/: return /** Time: */**/Table("OR1") [52] [12] /**/;
case /**\nCase: */**/190/**/: return /** Time: */**/Table("OR1") [35] [12] /**/;
case /**\nCase: */**/191/**/: return /** Time: */**/Table("OR1") [36] [12] /**/;
case /**\nCase: */**/192/**/: return /** Time:
*/**/Table("OR1") [37] [12] /**/;****/****/ **/
default: return /** \nDefault Time: */**/tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 10;*/
return 0;

```

(vii) Code: Processor – Operating Theatre 3

```

bject current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */**tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/3/**/: return /** Time: */**/Table("OR3") [1] [12] /**/;
case /**\nCase: */**/4/**/: return /** Time: */**/Table("OR3") [2] [12] /**/;
case /**\nCase: */**/17/**/: return /** Time: */**/Table("OR3") [4] [12] /**/;
case /**\nCase: */**/18/**/: return /** Time: */**/Table("OR3") [5] [12] /**/;
case /**\nCase: */**/19/**/: return /** Time: */**/Table("OR3") [6] [12] /**/;
case /**\nCase: */**/20/**/: return /** Time: */**/Table("OR3") [7] [12] /**/;
case /**\nCase: */**/37/**/: return /** Time: */**/Table("OR3") [9] [12] /**/;
case /**\nCase: */**/38/**/: return /** Time: */**/Table("OR3") [10] [12] /**/;
case /**\nCase: */**/39/**/: return /** Time: */**/Table("OR3") [11] [12] /**/;
case /**\nCase: */**/40/**/: return /** Time: */**/Table("OR3") [12] [12] /**/;
case /**\nCase: */**/41/**/: return /** Time: */**/Table("OR3") [13] [12] /**/;
case /**\nCase: */**/61/**/: return /** Time: */**/Table("OR3") [14] [12] /**/;
case /**\nCase: */**/62/**/: return /** Time: */**/Table("OR3") [15] [12] /**/;
case /**\nCase: */**/63/**/: return /** Time: */**/Table("OR3") [16] [12] /**/;
case /**\nCase: */**/64/**/: return /** Time: */**/70/**/;
case /**\nCase: */**/72/**/: return /** Time: */**/Table("OR3") [18] [12] /**/;
case /**\nCase: */**/73/**/: return /** Time: */**/Table("OR3") [19] [12] /**/;
case /**\nCase: */**/75/**/: return /** Time: */**/Table("OR3") [21] [12] /**/;
case /**\nCase: */**/76/**/: return /** Time: */**/98/**/;

```

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```

case /**\nCase: */**/217/**/: return /** Time: */**/Table("OR2") [52] [12] /**/;
case /**\nCase: */**/218/**/: return /** Time: */**/Table("OR2") [53] [12] /**/;
case /**\nCase: */**/219/**/: return /** Time: */**/Table("OR2") [54] [12] /**/;
case /**\nCase: */**/267/**/: return /** Time: */**/Table("OR2") [61] [12] /**/;
case /**\nCase: */**/268/**/: return /** Time: */**/Table("OR2") [62] [12] /**/;
case /**\nCase: */**/269/**/: return /** Time: */**/Table("OR2") [63] [12] /**/;
case /**\nCase: */**/270/**/: return /** Time: */**/Table("OR2") [64] [12] /**/;
case /**\nCase: */**/337/**/: return /** Time: */**/Table("OR4") [97] [12] /**/;
case /**\nCase: */**/345/**/: return /** Time: */**/Table("OR2") [81] [12] /**/;
case /**\nCase: */**/346/**/: return /** Time: */**/Table("OR2") [82] [12] /**/;
case /**\nCase: */**/347/**/: return /** Time: */**/Table("OR2") [83] [12] /**/;
case /**\nCase: */**/348/**/: return /** Time:
*/**/Table("OR2") [84] [12] /**/;****/****/****/
default: return /** \nDefault Time: */**/tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 10;*/
return 0;

```

(viii) Code: Processor – Operating Theatre 4

```

Object current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */****tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/5/**/: return /** Time: */**/Table("OR4") [1] [12] /**/;
case /**\nCase: */**/6/**/: return /** Time: */**/Table("OR4") [2] [12] /**/;
case /**\nCase: */**/7/**/: return /** Time: */**/Table("OR4") [3] [12] /**/;
case /**\nCase: */**/8/**/: return /** Time: */**/Table("OR4") [4] [12] /**/;
case /**\nCase: */**/9/**/: return /** Time: */**/Table("OR4") [5] [12] /**/;
case /**\nCase: */**/10/**/: return /** Time: */**/Table("OR4") [6] [12] /**/;
case /**\nCase: */**/11/**/: return /** Time: */**/Table("OR4") [7] [12] /**/;
case /**\nCase: */**/22/**/: return /** Time: */**/Table("OR4") [8] [12] /**/;
case /**\nCase: */**/23/**/: return /** Time: */**/Table("OR4") [9] [12] /**/;
case /**\nCase: */**/24/**/: return /** Time: */**/Table("OR4") [10] [12] /**/;
case /**\nCase: */**/25/**/: return /** Time: */**/Table("OR4") [11] [12] /**/;
case /**\nCase: */**/26/**/: return /** Time: */**/Table("OR4") [12] [12] /**/;
case /**\nCase: */**/27/**/: return /** Time: */**/Table("OR4") [13] [12] /**/;
case /**\nCase: */**/28/**/: return /** Time: */**/Table("OR4") [14] [12] /**/;
case /**\nCase: */**/29/**/: return /** Time: */**/Table("OR4") [15] [12] /**/;
case /**\nCase: */**/30/**/: return /** Time: */**/Table("OR4") [16] [12] /**/;
case /**\nCase: */**/31/**/: return /** Time: */**/Table("OR4") [17] [12] /**/;
case /**\nCase: */**/43/**/: return /** Time: */**/Table("OR4") [20] [12] /**/;
case /**\nCase: */**/44/**/: return /** Time: */**/Table("OR4") [21] [12] /**/;
case /**\nCase: */**/77/**/: return /** Time: */**/Table("OR4") [24] [12] /**/;
case /**\nCase: */**/78/**/: return /** Time: */**/Table("OR4") [25] [12] /**/;
case /**\nCase: */**/79/**/: return /** Time: */**/Table("OR4") [26] [12] /**/;
case /**\nCase: */**/80/**/: return /** Time: */**/Table("OR4") [27] [12] /**/;
case /**\nCase: */**/96/**/: return /** Time: */**/Table("OR4") [28] [12] /**/;
case /**\nCase: */**/97/**/: return /** Time: */**/Table("OR4") [29] [12] /**/;
case /**\nCase: */**/98/**/: return /** Time: */**/Table("OR4") [30] [12] /**/;
case /**\nCase: */**/99/**/: return /** Time: */**/Table("OR4") [31] [12] /**/;
case /**\nCase: */**/100/**/: return /** Time: */**/Table("OR4") [32] [12] /**/;
case /**\nCase: */**/101/**/: return /** Time: */**/Table("OR4") [33] [12] /**/;
case /**\nCase: */**/102/**/: return /** Time: */**/Table("OR4") [34] [12] /**/;
case /**\nCase: */**/103/**/: return /** Time: */**/Table("OR4") [35] [12] /**/;
case /**\nCase: */**/104/**/: return /** Time: */**/Table("OR4") [36] [12] /**/;
case /**\nCase: */**/144/**/: return /** Time: */**/Table("OR4") [39] [12] /**/;
case /**\nCase: */**/157/**/: return /** Time: */**/Table("OR4") [42] [12] /**/;
case /**\nCase: */**/158/**/: return /** Time: */**/Table("OR4") [43] [12] /**/;
case /**\nCase: */**/159/**/: return /** Time: */**/Table("OR4") [44] [12] /**/;
case /**\nCase: */**/160/**/: return /** Time: */**/Table("OR4") [45] [12] /**/;

```

- 130 -

```

case /**\nCase: */**/220/**/: return /** Time: */**/Table("OR3") [62] [12] /**/;
case /**\nCase: */**/221/**/: return /** Time: */**/Table("OR3") [63] [12] /**/;
case /**\nCase: */**/242/**/: return /** Time: */**/Table("OR2") [57] [12] /**/;
case /**\nCase: */**/288/**/: return /** Time: */**/Table("OR2") [67] [12] /**/;
case /**\nCase: */**/306/**/: return /** Time: */**/Table("OR2") [68] [12] /**/;
case /**\nCase: */**/307/**/: return /** Time: */**/Table("OR2") [69] [12] /**/;
case /**\nCase: */**/308/**/: return /** Time: */**/Table("OR2") [70] [12] /**/;
case /**\nCase: */**/309/**/: return /** Time: */**/Table("OR2") [71] [12] /**/;
case /**\nCase: */**/310/**/: return /** Time: */**/Table("OR2") [72] [12] /**/;
case /**\nCase: */**/311/**/: return /** Time: */**/Table("OR2") [73] [12] /**/;
case /**\nCase: */**/329/**/: return /** Time: */**/Table("OR2") [76] [12] /**/;
case /**\nCase: */**/330/**/: return /** Time: */**/Table("OR2") [77] [12] /**/;
case /**\nCase: */**/331/**/: return /** Time: */**/Table("OR2") [78] [12] /**/;
case /**\nCase: */**/332/**/: return /** Time: */**/Table("OR2") [79] [12] /**/;
case /**\nCase: */**/349/**/: return /** Time: */**/Table("OR3") [96] [12] /**/;
case /**\nCase: */**/350/**/: return /** Time: */**/Table("OR3") [97] [12] /**/;
case /**\nCase: */**/351/**/: return /** Time:
*/**/Table("OR3") [98] [12] /**/;****/**/ /**/
default: return /** \nDefault Time: */**/*tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 10;*/
return 0;

```

Appendix E: Hybrid Policy Simulation Model Coding

(i) Code: Queue – Operating Theatre 2

```

Object item = param(1);
Object current = ownerobject(c);
/**popup:ValuesByCase:hasitem=1:valustr=Port:doreturn=1*/
/**Port By Case*/
int case_val = /** \nCase Function: */****tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
    case /**\nCase: */**/1/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/2/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/16/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/21/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/32/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/33/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/34/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/42/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/51/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/52/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/53/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/65/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/66/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/68/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/70/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/71/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/72/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/73/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/74/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/75/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/76/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/81/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/82/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/83/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/108/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/109/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/107/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/110/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/121/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/122/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/120/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/127/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/128/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/129/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/136/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/140/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/141/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/145/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/146/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/142/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/143/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/134/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/135/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/156/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/189/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/179/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/190/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/191/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/207/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/208/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/206/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/192/**/: return /** Port: */**/1/**/;
    case /**\nCase: */**/209/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/223/**/: return /** Port: */**/4/**/;
    case /**\nCase: */**/222/**/: return /** Port: */**/3/**/;
    case /**\nCase: */**/226/**/: return /** Port: */**/1/**/;

```

```

case /**\nCase: */**/227/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/228/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/236/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/232/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/240/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/271/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/272/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/285/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/286/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/287/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/299/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/318/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/319/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/304/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/305/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/327/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/328/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/325/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/326/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/335/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/336/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/338/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/344/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/343/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/361/**/: return /** Port: */**/4/**/;
case /**\nCase: */**/352/**/: return /** Port: */**/3/**/;
case /**\nCase: */**/367/**/: return /** Port: */**/1/**/;
case /**\nCase: */**/368/**/: return /** Port: */**/1/**/;/**/****/****/ /**/
default: return /** \nDefault Port: */**tag:default*/**/1/**/;break;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 2;*/
return 0;

```

(ii) Code: Processor – Operating Theatre 1

```

Object current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */**tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/1/**/: return /** Time: */**/50/**/;
case /**\nCase: */**/33/**/: return /** Time: */**/Table("OR1") [2] [12] /**/;
case /**\nCase: */**/34/**/: return /** Time: */**/Table("OR1") [3] [12] /**/;
case /**\nCase: */**/45/**/: return /** Time: */**/Table("OR1") [4] [12] /**/;
case /**\nCase: */**/46/**/: return /** Time: */**/Table("OR1") [5] [12] /**/;
case /**\nCase: */**/47/**/: return /** Time: */**/Table("OR1") [6] [12] /**/;
case /**\nCase: */**/48/**/: return /** Time: */**/Table("OR1") [7] [12] /**/;
case /**\nCase: */**/49/**/: return /** Time: */**/Table("OR1") [8] [12] /**/;
case /**\nCase: */**/50/**/: return /** Time: */**/Table("OR1") [9] [12] /**/;
case /**\nCase: */**/51/**/: return /** Time: */**/Table("OR1") [10] [12] /**/;
case /**\nCase: */**/52/**/: return /** Time: */**/Table("OR1") [11] [12] /**/;
case /**\nCase: */**/53/**/: return /** Time: */**/Table("OR1") [12] [12] /**/;
case /**\nCase: */**/67/**/: return /** Time: */**/Table("OR1") [13] [12] /**/;
case /**\nCase: */**/68/**/: return /** Time: */**/Table("OR1") [14] [12] /**/;
case /**\nCase: */**/81/**/: return /** Time: */**/Table("OR1") [15] [12] /**/;
case /**\nCase: */**/82/**/: return /** Time: */**/Table("OR1") [16] [12] /**/;
case /**\nCase: */**/83/**/: return /** Time: */**/Table("OR1") [17] [12] /**/;
case /**\nCase: */**/111/**/: return /** Time: */**/Table("OR1") [18] [12] /**/;
case /**\nCase: */**/123/**/: return /** Time: */**/Table("OR1") [19] [12] /**/;
case /**\nCase: */**/124/**/: return /** Time: */**/Table("OR1") [20] [12] /**/;
case /**\nCase: */**/125/**/: return /** Time: */**/Table("OR1") [21] [12] /**/;
case /**\nCase: */**/126/**/: return /** Time: */**/93/**/;

```

```

case /**\nCase: */**/132/**/: return /** Time: */**/Table("OR1") [23] [12] /**/;
case /**\nCase: */**/133/**/: return /** Time: */**/Table("OR1") [24] [12] /**/;
case /**\nCase: */**/134/**/: return /** Time: */**/Table("OR1") [25] [12] /**/;
case /**\nCase: */**/135/**/: return /** Time: */**/Table("OR1") [26] [12] /**/;
case /**\nCase: */**/147/**/: return /** Time: */**/Table("OR1") [27] [12] /**/;
case /**\nCase: */**/148/**/: return /** Time: */**/Table("OR1") [28] [12] /**/;
case /**\nCase: */**/149/**/: return /** Time: */**/Table("OR1") [29] [12] /**/;
case /**\nCase: */**/150/**/: return /** Time: */**/Table("OR1") [30] [12] /**/;
case /**\nCase: */**/151/**/: return /** Time: */**/Table("OR1") [31] [12] /**/;
case /**\nCase: */**/167/**/: return /** Time: */**/Table("OR1") [32] [12] /**/;
case /**\nCase: */**/168/**/: return /** Time: */**/Table("OR1") [33] [12] /**/;
case /**\nCase: */**/169/**/: return /** Time: */**/Table("OR1") [34] [12] /**/;
case /**\nCase: */**/190/**/: return /** Time: */**/Table("OR1") [35] [12] /**/;
case /**\nCase: */**/191/**/: return /** Time: */**/Table("OR1") [36] [12] /**/;
case /**\nCase: */**/192/**/: return /** Time: */**/Table("OR1") [37] [12] /**/;
case /**\nCase: */**/210/**/: return /** Time: */**/Table("OR1") [38] [12] /**/;
case /**\nCase: */**/211/**/: return /** Time: */**/Table("OR1") [39] [12] /**/;
case /**\nCase: */**/226/**/: return /** Time: */**/Table("OR1") [40] [12] /**/;
case /**\nCase: */**/227/**/: return /** Time: */**/Table("OR1") [41] [12] /**/;
case /**\nCase: */**/228/**/: return /** Time: */**/Table("OR1") [42] [12] /**/;
case /**\nCase: */**/237/**/: return /** Time: */**/Table("OR1") [43] [12] /**/;
case /**\nCase: */**/238/**/: return /** Time: */**/Table("OR1") [44] [12] /**/;
case /**\nCase: */**/239/**/: return /** Time: */**/Table("OR1") [45] [12] /**/;
case /**\nCase: */**/240/**/: return /** Time: */**/67/**/;
case /**\nCase: */**/263/**/: return /** Time: */**/Table("OR1") [47] [12] /**/;
case /**\nCase: */**/264/**/: return /** Time: */**/Table("OR1") [48] [12] /**/;
case /**\nCase: */**/265/**/: return /** Time: */**/Table("OR1") [49] [12] /**/;
case /**\nCase: */**/266/**/: return /** Time: */**/Table("OR1") [50] [12] /**/;
case /**\nCase: */**/285/**/: return /** Time: */**/Table("OR1") [51] [12] /**/;
case /**\nCase: */**/286/**/: return /** Time: */**/Table("OR1") [52] [12] /**/;
case /**\nCase: */**/287/**/: return /** Time: */**/Table("OR1") [53] [12] /**/;
case /**\nCase: */**/300/**/: return /** Time: */**/Table("OR1") [54] [12] /**/;
case /**\nCase: */**/301/**/: return /** Time: */**/Table("OR1") [55] [12] /**/;
case /**\nCase: */**/302/**/: return /** Time: */**/Table("OR1") [56] [12] /**/;
case /**\nCase: */**/303/**/: return /** Time: */**/Table("OR1") [57] [12] /**/;
case /**\nCase: */**/304/**/: return /** Time: */**/Table("OR1") [58] [12] /**/;
case /**\nCase: */**/305/**/: return /** Time: */**/Table("OR1") [59] [12] /**/;
case /**\nCase: */**/323/**/: return /** Time: */**/Table("OR1") [60] [12] /**/;
case /**\nCase: */**/324/**/: return /** Time: */**/Table("OR1") [61] [12] /**/;
case /**\nCase: */**/325/**/: return /** Time: */**/Table("OR1") [62] [12] /**/;
case /**\nCase: */**/326/**/: return /** Time: */**/Table("OR1") [63] [12] /**/;
case /**\nCase: */**/338/**/: return /** Time: */**/Table("OR1") [64] [12] /**/;
case /**\nCase: */**/339/**/: return /** Time: */**/Table("OR1") [65] [12] /**/;
case /**\nCase: */**/340/**/: return /** Time: */**/Table("OR1") [66] [12] /**/;
case /**\nCase: */**/341/**/: return /** Time: */**/Table("OR1") [67] [12] /**/;
case /**\nCase: */**/342/**/: return /** Time: */**/Table("OR1") [68] [12] /**/;
case /**\nCase: */**/343/**/: return /** Time: */**/Table("OR1") [69] [12] /**/;
case /**\nCase: */**/362/**/: return /** Time: */**/Table("OR1") [70] [12] /**/;
case /**\nCase: */**/363/**/: return /** Time: */**/Table("OR1") [71] [12] /**/;
case /**\nCase: */**/364/**/: return /** Time: */**/Table("OR1") [72] [12] /**/;
case /**\nCase: */**/365/**/: return /** Time: */**/Table("OR1") [73] [12] /**/;
case /**\nCase: */**/2/**/: return /** Time: */**/Table("OR2") [1] [12] /**/;
case /**\nCase: */**/71/**/: return /** Time: */**/8/**/;
case /**\nCase: */**/136/**/: return /** Time: */**/Table("OR2") [32] [12] /**/;
case /**\nCase: */**/271/**/: return /** Time: */**/Table("OR2") [65] [12] /**/;
case /**\nCase: */**/272/**/: return /** Time: */**/45/**/;
case /**\nCase: */**/367/**/: return /** Time: */**/Table("OR2") [86] [12] /**/;
case /**\nCase: */**/368/**/: return /** Time:
/****/Table("OR2") [87] [12] /**/; /****/
default: return /** \nDefault Time: */***/tag:default*/***/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 10;*/

return 0;

```

(iii) Code: Processor – Operating Theatre 2

```

Object current = ownerobject(c);
Object item = param(1);
/**popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: /**tag:ValueFunc**/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
    case /**\nCase: /***/12/**/: return /** Time: /***/Table("OR2") [2] [12] /**/;
    case /**\nCase: /***/13/**/: return /** Time: /***/Table("OR2") [3] [12] /**/;
    case /**\nCase: /***/14/**/: return /** Time: /***/Table("OR2") [4] [12] /**/;
    case /**\nCase: /***/15/**/: return /** Time: /***/Table("OR2") [5] [12] /**/;
    case /**\nCase: /***/35/**/: return /** Time: /***/Table("OR2") [6] [12] /**/;
    case /**\nCase: /***/36/**/: return /** Time: /***/Table("OR2") [7] [12] /**/;
    case /**\nCase: /***/54/**/: return /** Time: /***/Table("OR2") [8] [12] /**/;
    case /**\nCase: /***/55/**/: return /** Time: /***/Table("OR2") [9] [12] /**/;
    case /**\nCase: /***/56/**/: return /** Time: /***/Table("OR2") [10] [12] /**/;
    case /**\nCase: /***/57/**/: return /** Time: /***/Table("OR2") [11] [12] /**/;
    case /**\nCase: /***/58/**/: return /** Time: /***/Table("OR2") [12] [12] /**/;
    case /**\nCase: /***/59/**/: return /** Time: /***/Table("OR2") [13] [12] /**/;
    case /**\nCase: /***/69/**/: return /** Time: /***/Table("OR2") [15] [12] /**/;
    case /**\nCase: /***/84/**/: return /** Time: /***/Table("OR2") [18] [12] /**/;
    case /**\nCase: /***/85/**/: return /** Time: /***/Table("OR2") [19] [12] /**/;
    case /**\nCase: /***/86/**/: return /** Time: /***/Table("OR2") [20] [12] /**/;
    case /**\nCase: /***/87/**/: return /** Time: /***/Table("OR2") [21] [12] /**/;
    case /**\nCase: /***/89/**/: return /** Time: /***/Table("OR2") [22] [12] /**/;
    case /**\nCase: /***/90/**/: return /** Time: /***/Table("OR2") [23] [12] /**/;
    case /**\nCase: /***/91/**/: return /** Time: /***/Table("OR2") [24] [12] /**/;
    case /**\nCase: /***/92/**/: return /** Time: /***/Table("OR2") [25] [12] /**/;
    case /**\nCase: /***/105/**/: return /** Time: /***/Table("OR2") [26] [12] /**/;
    case /**\nCase: /***/106/**/: return /** Time: /***/Table("OR2") [27] [12] /**/;
    case /**\nCase: /***/137/**/: return /** Time: /***/Table("OR2") [33] [12] /**/;
    case /**\nCase: /***/138/**/: return /** Time: /***/Table("OR2") [34] [12] /**/;
    case /**\nCase: /***/139/**/: return /** Time: /***/Table("OR2") [35] [12] /**/;
    case /**\nCase: /***/170/**/: return /** Time: /***/Table("OR2") [36] [12] /**/;
    case /**\nCase: /***/171/**/: return /** Time: /***/Table("OR2") [37] [12] /**/;
    case /**\nCase: /***/172/**/: return /** Time: /***/Table("OR2") [38] [12] /**/;
    case /**\nCase: /***/173/**/: return /** Time: /***/Table("OR2") [39] [12] /**/;
    case /**\nCase: /***/193/**/: return /** Time: /***/Table("OR2") [40] [12] /**/;
    case /**\nCase: /***/194/**/: return /** Time: /***/Table("OR2") [41] [12] /**/;
    case /**\nCase: /***/195/**/: return /** Time: /***/Table("OR2") [42] [12] /**/;
    case /**\nCase: /***/196/**/: return /** Time: /***/Table("OR2") [43] [12] /**/;
    case /**\nCase: /***/197/**/: return /** Time: /***/Table("OR2") [44] [12] /**/;
    case /**\nCase: /***/198/**/: return /** Time: /***/Table("OR2") [45] [12] /**/;
    case /**\nCase: /***/199/**/: return /** Time: /***/199/**/;
    case /**\nCase: /***/212/**/: return /** Time: /***/Table("OR2") [47] [12] /**/;
    case /**\nCase: /***/213/**/: return /** Time: /***/Table("OR2") [48] [12] /**/;
    case /**\nCase: /***/214/**/: return /** Time: /***/Table("OR2") [49] [12] /**/;
    case /**\nCase: /***/215/**/: return /** Time: /***/Table("OR2") [50] [12] /**/;
    case /**\nCase: /***/216/**/: return /** Time: /***/Table("OR2") [51] [12] /**/;
    case /**\nCase: /***/217/**/: return /** Time: /***/Table("OR2") [52] [12] /**/;
    case /**\nCase: /***/218/**/: return /** Time: /***/Table("OR2") [53] [12] /**/;
    case /**\nCase: /***/219/**/: return /** Time: /***/Table("OR2") [54] [12] /**/;
    case /**\nCase: /***/229/**/: return /** Time: /***/Table("OR2") [55] [12] /**/;
    case /**\nCase: /***/241/**/: return /** Time: /***/Table("OR2") [56] [12] /**/;
    case /**\nCase: /***/242/**/: return /** Time: /***/Table("OR2") [57] [12] /**/;
    case /**\nCase: /***/243/**/: return /** Time: /***/Table("OR2") [58] [12] /**/;
    case /**\nCase: /***/244/**/: return /** Time: /***/Table("OR2") [59] [12] /**/;
    case /**\nCase: /***/245/**/: return /** Time: /***/71/**/;
    case /**\nCase: /***/267/**/: return /** Time: /***/Table("OR2") [61] [12] /**/;
    case /**\nCase: /***/268/**/: return /** Time: /***/Table("OR2") [62] [12] /**/;
    case /**\nCase: /***/269/**/: return /** Time: /***/Table("OR2") [63] [12] /**/;
    case /**\nCase: /***/270/**/: return /** Time: /***/Table("OR2") [64] [12] /**/;
    case /**\nCase: /***/288/**/: return /** Time: /***/Table("OR2") [67] [12] /**/;
    case /**\nCase: /***/306/**/: return /** Time: /***/Table("OR2") [68] [12] /**/;
    case /**\nCase: /***/307/**/: return /** Time: /***/Table("OR2") [69] [12] /**/;
    case /**\nCase: /***/308/**/: return /** Time: /***/Table("OR2") [70] [12] /**/;

```

```

case /**\nCase: */**/309/**/: return /** Time: */**/Table("OR2") [71] [12] /**/;
case /**\nCase: */**/310/**/: return /** Time: */**/Table("OR2") [72] [12] /**/;
case /**\nCase: */**/311/**/: return /** Time: */**/Table("OR2") [73] [12] /**/;
case /**\nCase: */**/329/**/: return /** Time: */**/Table("OR2") [76] [12] /**/;
case /**\nCase: */**/330/**/: return /** Time: */**/Table("OR2") [77] [12] /**/;
case /**\nCase: */**/331/**/: return /** Time: */**/Table("OR2") [78] [12] /**/;
case /**\nCase: */**/332/**/: return /** Time: */**/Table("OR2") [79] [12] /**/;
case /**\nCase: */**/345/**/: return /** Time: */**/Table("OR2") [81] [12] /**/;
case /**\nCase: */**/346/**/: return /** Time: */**/Table("OR2") [82] [12] /**/;
case /**\nCase: */**/347/**/: return /** Time: */**/Table("OR2") [83] [12] /**/;
case /**\nCase: */**/348/**/: return /** Time: */**/Table("OR2") [84] [12] /**/;
case /**\nCase: */**/366/**/: return /** Time:
*/**/Table("OR2") [85] [12] /**/; /**/ /**/
default: return /** \nDefault Time: */**/tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\nCase 1: return 10;*/

return 0;

```

(iv) Code: Processor – Operating Theatre 3

```

Object current = ownerobject(c);
Object item = param(1);
/**popup.ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */**/tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/**tagex:data*/
case /**\nCase: */**/3/**/: return /** Time: */**/Table("OR3") [1] [12] /**/;
case /**\nCase: */**/4/**/: return /** Time: */**/Table("OR3") [2] [12] /**/;
case /**\nCase: */**/16/**/: return /** Time: */**/Table("OR3") [3] [12] /**/;
case /**\nCase: */**/17/**/: return /** Time: */**/Table("OR3") [4] [12] /**/;
case /**\nCase: */**/18/**/: return /** Time: */**/Table("OR3") [5] [12] /**/;
case /**\nCase: */**/19/**/: return /** Time: */**/Table("OR3") [6] [12] /**/;
case /**\nCase: */**/20/**/: return /** Time: */**/Table("OR3") [7] [12] /**/;
case /**\nCase: */**/21/**/: return /** Time: */**/Table("OR3") [8] [12] /**/;
case /**\nCase: */**/37/**/: return /** Time: */**/Table("OR3") [9] [12] /**/;
case /**\nCase: */**/38/**/: return /** Time: */**/Table("OR3") [10] [12] /**/;
case /**\nCase: */**/39/**/: return /** Time: */**/Table("OR3") [11] [12] /**/;
case /**\nCase: */**/40/**/: return /** Time: */**/Table("OR3") [12] [12] /**/;
case /**\nCase: */**/41/**/: return /** Time: */**/Table("OR3") [13] [12] /**/;
case /**\nCase: */**/61/**/: return /** Time: */**/Table("OR3") [14] [12] /**/;
case /**\nCase: */**/62/**/: return /** Time: */**/Table("OR3") [15] [12] /**/;
case /**\nCase: */**/63/**/: return /** Time: */**/Table("OR3") [16] [12] /**/;
case /**\nCase: */**/64/**/: return /** Time: */**/70/**/;
case /**\nCase: */**/72/**/: return /** Time: */**/Table("OR3") [18] [12] /**/;
case /**\nCase: */**/73/**/: return /** Time: */**/Table("OR3") [19] [12] /**/;
case /**\nCase: */**/74/**/: return /** Time: */**/Table("OR3") [20] [12] /**/;
case /**\nCase: */**/75/**/: return /** Time: */**/Table("OR3") [21] [12] /**/;
case /**\nCase: */**/76/**/: return /** Time: */**/98/**/;
case /**\nCase: */**/93/**/: return /** Time: */**/Table("OR3") [23] [12] /**/;
case /**\nCase: */**/94/**/: return /** Time: */**/Table("OR3") [24] [12] /**/;
case /**\nCase: */**/95/**/: return /** Time: */**/Table("OR3") [25] [12] /**/;
case /**\nCase: */**/108/**/: return /** Time: */**/Table("OR3") [26] [12] /**/;
case /**\nCase: */**/109/**/: return /** Time: */**/Table("OR3") [27] [12] /**/;
case /**\nCase: */**/110/**/: return /** Time: */**/36/**/;
case /**\nCase: */**/112/**/: return /** Time: */**/Table("OR3") [29] [12] /**/;
case /**\nCase: */**/113/**/: return /** Time: */**/Table("OR3") [30] [12] /**/;
case /**\nCase: */**/114/**/: return /** Time: */**/Table("OR3") [31] [12] /**/;
case /**\nCase: */**/115/**/: return /** Time: */**/Table("OR3") [32] [12] /**/;
case /**\nCase: */**/116/**/: return /** Time: */**/Table("OR3") [33] [12] /**/;
case /**\nCase: */**/117/**/: return /** Time: */**/Table("OR3") [34] [12] /**/;
case /**\nCase: */**/118/**/: return /** Time: */**/Table("OR3") [35] [12] /**/;
case /**\nCase: */**/119/**/: return /** Time: */**/Table("OR3") [36] [12] /**/;

```

[illegible]

```

    case /**\nCase: */**/107/**/: return /** Time:
    */**/Table("OR2") [28] [12] /**;/*****/ **/
    default: return /** \nDefault Time: */****tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 10;*/

return 0;

```

(v) Code: Processor – Operating Theatre 4

```

Object current = ownerobject(c);
Object item = param(1);
/****popup:ValuesByCase:hasitem=1:valustr=Time*/
/**Values By Case*/
int case_val = /** \nCase Function: */****tag:ValueFunc*/**/item.Type/**/;
/** \nCases:\n*/
switch (case_val) {
/****tagex:data*/
    case /**\nCase: */**/5/**/: return /** Time: */***/Table("OR4") [1] [12] /**/;
    case /**\nCase: */**/6/**/: return /** Time: */***/Table("OR4") [2] [12] /**/;
    case /**\nCase: */**/7/**/: return /** Time: */***/Table("OR4") [3] [12] /**/;
    case /**\nCase: */**/8/**/: return /** Time: */***/Table("OR4") [4] [12] /**/;
    case /**\nCase: */**/9/**/: return /** Time: */***/Table("OR4") [5] [12] /**/;
    case /**\nCase: */**/10/**/: return /** Time: */***/Table("OR4") [6] [12] /**/;
    case /**\nCase: */**/11/**/: return /** Time: */***/Table("OR4") [7] [12] /**/;
    case /**\nCase: */**/22/**/: return /** Time: */***/Table("OR4") [8] [12] /**/;
    case /**\nCase: */**/23/**/: return /** Time: */***/Table("OR4") [9] [12] /**/;
    case /**\nCase: */**/24/**/: return /** Time: */***/Table("OR4") [10] [12] /**/;
    case /**\nCase: */**/25/**/: return /** Time: */***/Table("OR4") [11] [12] /**/;
    case /**\nCase: */**/26/**/: return /** Time: */***/Table("OR4") [12] [12] /**/;
    case /**\nCase: */**/27/**/: return /** Time: */***/Table("OR4") [13] [12] /**/;
    case /**\nCase: */**/28/**/: return /** Time: */***/Table("OR4") [14] [12] /**/;
    case /**\nCase: */**/29/**/: return /** Time: */***/Table("OR4") [15] [12] /**/;
    case /**\nCase: */**/30/**/: return /** Time: */***/Table("OR4") [16] [12] /**/;
    case /**\nCase: */**/31/**/: return /** Time: */***/Table("OR4") [17] [12] /**/;
    case /**\nCase: */**/32/**/: return /** Time: */***/Table("OR4") [18] [12] /**/;
    case /**\nCase: */**/42/**/: return /** Time: */***/Table("OR4") [19] [12] /**/;
    case /**\nCase: */**/43/**/: return /** Time: */***/Table("OR4") [20] [12] /**/;
    case /**\nCase: */**/44/**/: return /** Time: */***/Table("OR4") [21] [12] /**/;
    case /**\nCase: */**/65/**/: return /** Time: */***/Table("OR4") [22] [12] /**/;
    case /**\nCase: */**/66/**/: return /** Time: */***/Table("OR4") [23] [12] /**/;
    case /**\nCase: */**/77/**/: return /** Time: */***/Table("OR4") [24] [12] /**/;
    case /**\nCase: */**/78/**/: return /** Time: */***/Table("OR4") [25] [12] /**/;
    case /**\nCase: */**/79/**/: return /** Time: */***/Table("OR4") [26] [12] /**/;
    case /**\nCase: */**/80/**/: return /** Time: */***/Table("OR4") [27] [12] /**/;
    case /**\nCase: */**/96/**/: return /** Time: */***/Table("OR4") [28] [12] /**/;
    case /**\nCase: */**/97/**/: return /** Time: */***/Table("OR4") [29] [12] /**/;
    case /**\nCase: */**/98/**/: return /** Time: */***/Table("OR4") [30] [12] /**/;
    case /**\nCase: */**/99/**/: return /** Time: */***/Table("OR4") [31] [12] /**/;
    case /**\nCase: */**/100/**/: return /** Time: */***/Table("OR4") [32] [12] /**/;
    case /**\nCase: */**/101/**/: return /** Time: */***/Table("OR4") [33] [12] /**/;
    case /**\nCase: */**/102/**/: return /** Time: */***/Table("OR4") [34] [12] /**/;
    case /**\nCase: */**/103/**/: return /** Time: */***/Table("OR4") [35] [12] /**/;
    case /**\nCase: */**/104/**/: return /** Time: */***/Table("OR4") [36] [12] /**/;
    case /**\nCase: */**/121/**/: return /** Time: */***/Table("OR4") [37] [12] /**/;
    case /**\nCase: */**/122/**/: return /** Time: */***/Table("OR4") [38] [12] /**/;
    case /**\nCase: */**/144/**/: return /** Time: */***/Table("OR4") [39] [12] /**/;
    case /**\nCase: */**/145/**/: return /** Time: */***/Table("OR4") [40] [12] /**/;
    case /**\nCase: */**/146/**/: return /** Time: */***/Table("OR4") [41] [12] /**/;
    case /**\nCase: */**/157/**/: return /** Time: */***/Table("OR4") [42] [12] /**/;
    case /**\nCase: */**/158/**/: return /** Time: */***/Table("OR4") [43] [12] /**/;
    case /**\nCase: */**/159/**/: return /** Time: */***/Table("OR4") [44] [12] /**/;
    case /**\nCase: */**/160/**/: return /** Time: */***/Table("OR4") [45] [12] /**/;
    case /**\nCase: */**/161/**/: return /** Time: */***/Table("OR4") [46] [12] /**/;
    case /**\nCase: */**/162/**/: return /** Time: */***/Table("OR4") [47] [12] /**/;
}

```

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```

    case /**\nCase: */**/127/**/: return /** Time: */**/Table("OR2") [29] [12] /**/;
    case /**\nCase: */**/128/**/: return /** Time: */**/Table("OR2") [30] [12] /**/;
    case /**\nCase: */**/129/**/: return /** Time: */**/Table("OR2") [31] [12] /**/;
    case /**\nCase: */**/327/**/: return /** Time: */**/Table("OR2") [74] [12] /**/;
    case /**\nCase: */**/328/**/: return /** Time: */**/Table("OR2") [75] [12] /**/;
    case /**\nCase: */**/344/**/: return /** Time:
*/**/Table("OR2") [80] [12] /**/;****/**/ /**/
    default: return /** \nDefault Time: */****tag:default*/**/1/**/;
}
/** \nNote:
Case values must be positive integers.
Additional cases may be added as needed.
Use Format:\ncase 1: return 10;*/

return 0;

```

Appendix F: Excel Data for Theatre Allocation

(i) Excel Data: Flexibility Policy

02-Jul															
Theatre 1															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	1	02.06.2018	Monday	1	020771NE1	07:00:00	0	18:10:00	1090	11:10:00	670	-	OUT
								670	19:10:00	1150	01:00:00	60	Non-Elective	IN	
Theatre 2															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Ear, Nose and Throat	2	02.06.2018	Monday	2	020772NE1	07:00:00	0	17:28:00	1046	10:26:00	626	-	OUT
								626	17:58:00	1076	00:30:00	28	Non-Elective	IN	
			2					17:54:00	654	19:00:00	720	01:06:00	66	-	OUT
Theatre 3															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	02.06.2018	Monday	3	020773E1	07:00:00	0	07:51:00	471	00:51:00	51	-	OUT
								51	09:47:00	587	01:56:00	116	Elective	IN	
								167	10:10:00	630	00:23:00	23	-	OUT	
								190	12:14:00	734	02:04:00	124	Elective	IN	
			3					12:14:00	314	19:00:00	1140	06:46:00	406	-	OUT
Theatre 4															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	4	02.06.2018	Monday	5	020774E1	07:00:00	0	08:44:00	524	01:44:00	104	Elective	IN
								118	08:58:00	538	00:14:00	14	-	OUT	
								237	10:57:00	713	01:59:00	119	Elective	IN	
								293	12:57:00	757	00:56:00	56	-	OUT	
								337	13:00:00	780	00:44:00	44	Elective	IN	
								360	13:46:00	826	00:23:00	23	-	OUT	
								406	14:24:00	864	00:46:00	46	-	OUT	
								444	15:16:00	916	00:38:00	38	Elective	IN	
								496	15:18:00	918	00:52:00	52	Elective	IN	
								498	16:16:00	976	00:02:00	2	-	OUT	
								556	16:49:00	1009	00:58:00	58	Elective	IN	
	589	19:00:00	1140	00:31:00	33	Elective	IN								
								16:49:00	589	19:00:00	1140	02:11:00	131	-	OUT
Theatre 5															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	02.06.2018	Monday	6	020774E2	08:38:00	118	10:57:00	657	01:59:00	14	Elective	IN
								118	10:57:00	657	01:59:00	14	Elective	IN	
			4					10:57:00	237	11:53:00	713	00:56:00	56	-	OUT
			4					11:53:00	293	12:37:00	757	00:44:00	44	Elective	IN
			4					12:37:00	337	13:00:00	780	00:23:00	23	-	OUT
			4					13:00:00	360	13:46:00	826	00:46:00	46	-	OUT
			4					13:46:00	406	14:24:00	864	00:38:00	38	Elective	IN
			4					14:24:00	444	15:16:00	916	00:52:00	52	Elective	IN
			4					15:16:00	496	15:18:00	918	00:02:00	2	-	OUT
			4					15:18:00	498	16:16:00	976	00:58:00	58	Elective	IN
			4					16:16:00	556	16:49:00	1009	00:31:00	33	Elective	IN
			4					16:49:00	589	19:00:00	1140	02:11:00	131	-	OUT
Theatre 6															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	02.06.2018	Monday	7	020774E3	07:00:00	0	08:44:00	524	01:44:00	104	Elective	IN
								524	08:44:00	524	01:44:00	104	Elective	IN	
			4					08:44:00	104	08:58:00	538	00:14:00	14	-	OUT
			4					08:58:00	118	10:57:00	657	01:59:00	119	Elective	IN
			4					10:57:00	237	11:53:00	713	00:56:00	56	-	OUT
			4					11:53:00	293	12:37:00	757	00:44:00	44	Elective	IN
			4					12:37:00	337	13:00:00	780	00:23:00	23	-	OUT
			4					13:00:00	360	13:46:00	826	00:46:00	46	-	OUT
			4					13:46:00	406	14:24:00	864	00:38:00	38	Elective	IN
			4					14:24:00	444	15:16:00	916	00:52:00	52	Elective	IN
			4					15:16:00	496	15:18:00	918	00:02:00	2	-	OUT
			4					15:18:00	498	16:16:00	976	00:58:00	58	Elective	IN
			4					16:16:00	556	16:49:00	1009	00:31:00	33	Elective	IN
			4					16:49:00	589	19:00:00	1140	02:11:00	131	-	OUT
Theatre 7															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	02.06.2018	Monday	8	020774E4	07:00:00	0	08:44:00	524	01:44:00	104	Elective	IN
								524	08:44:00	524	01:44:00	104	Elective	IN	
			4					08:44:00	104	08:58:00	538	00:14:00	14	-	OUT
			4					08:58:00	118	10:57:00	657	01:59:00	119	Elective	IN
			4					10:57:00	237	11:53:00	713	00:56:00	56	-	OUT
			4					11:53:00	293	12:37:00	757	00:44:00	44	Elective	IN
			4					12:37:00	337	13:00:00	780	00:23:00	23	-	OUT
			4					13:00:00	360	13:46:00	826	00:46:00	46	-	OUT
			4					13:46:00	406	14:24:00	864	00:38:00	38	Elective	IN
			4					14:24:00	444	15:16:00	916	00:52:00	52	Elective	IN
			4					15:16:00	496	15:18:00	918	00:02:00	2	-	OUT
			4					15:18:00	498	16:16:00	976	00:58:00	58	Elective	IN
			4					16:16:00	556	16:49:00	1009	00:31:00	33	Elective	IN
			4					16:49:00	589	19:00:00	1140	02:11:00	131	-	OUT
Theatre 8															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	02.06.2018	Monday	9	020774E5	07:00:00	0	08:44:00	524	01:44:00	104	Elective	IN
								524	08:44:00	524	01:44:00	104	Elective	IN	
			4					08:44:00	104	08:58:00	538	00:14:00	14	-	OUT
			4					08:58:00	118	10:57:00	657	01:59:00	119	Elective	IN
			4					10:57:00	237	11:53:00	713	00:56:00	56	-	OUT
			4					11:53:00	293	12:37:00	757	00:44:00	44	Elective	IN
			4					12:37:00	337	13:00:00	780	00:23:00	23	-	OUT
			4					13:00:00	360	13:46:00	826	00:46:00	46	-	OUT
			4					13:46:00	406	14:24:00	864	00:38:00	38	Elective	IN
			4					14:24:00	444	15:16:00	916	00:52:00	52	Elective	IN
			4					15:16:00	496	15:18:00	918	00:02:00	2	-	OUT
			4					15:18:00	498	16:16:00	976	00:58:00	58	Elective	IN
			4					16:16:00	556	16:49:00	1009	00:31:00	33	Elective	IN
			4					16:49:00	589	19:00:00	1140	02:11:00	131	-	OUT
Theatre 9															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	02.06.2018	Monday	10	020774E6	07:00:00	0	08:44:00	524	01:44:00	104	Elective	IN
								524	08:44:00	524	01:44:00	104	Elective	IN	
			4					08:44:00	104	08:58:00	538	00:14:00	14	-	OUT
			4					08:58:00	118	10:57:00	657	01:59:00	119	Elective	IN
			4					10:57:00	237	11:53:00	713	00:56:00	56	-	OUT
			4					11:53:00	293	12:37:00	757	00:44:00	44	Elective	IN
			4					12:37:00	337	13:00:00	780	00:23:00	23	-	OUT
			4					13:00:00	360	13:46:00	826	00:46:00	46	-	OUT
			4					13:46:00	406	14:24:00	864	00:38:00	38	Elective	IN
			4					14:24:00	444	15:16:00	916	00:52:00	52	Elective	IN
			4					15:16:00	496	15:18:00	918	00:02:00	2	-	OUT
			4					15:18:00	498	16:16:00	976	00:58:00	58	Elective	IN
			4					16:16:00	556	16:49:00	1009	00:31:00	33	Elective	IN
			4					16:49:00	589	19:00:00	1140	02:11:00	131	-	OUT
Theatre 10															
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	02.06.2018	Monday	11	020774E7	07:00:00	0	08:44:00	524	01:44:00	104	Elective	IN
								524	08:44:00	524	01:44:00	104	Elective	IN	
			4					08:44:00	104	08:58:00	538	00:14:00	14	-	OUT
			4					08:58:00	118	10:57:00	657	01:59:00	119	Elective	IN
			4					10:57:00	237	11:53:00	713	00:56:00	56	-	OUT
			4					11:53:00	293	12:37:00	757	00:44:00	44	Elective	IN
			4					12:37:00	337	13:00:00	780	00:23:00	23	-	OUT
			4					13:00:00	360	13:46:00	826	00:46:00	46	-	OUT
			4					13:46:00	406	14:24:00	864	00:38:00	38	Elective	IN
			4					14:24:00	444	15:16:0					

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04-Jul															
Theatre 1															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	33	0407T1NE1	07:00:00	2880	07:56:00	3356	00:56:00	56	Non-Elective	IN
	13:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	34	0407T1NE2	08:12:00	2952	09:06:00	3425	00:53:00	53	Non-Elective	IN
		19:00		1				13:00:00	3240	19:00:00	4020	06:00:00	360	-	OUT
Theatre 2															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2	04.07.2018	Wednesday	35	0407T2E1	07:00:00	2880	08:00:00	3360	01:00:00	60	-	OUT
	19:00	General Surgeon	2	04.07.2018	Wednesday	36	0407T2E2	09:09:00	3009	10:22:00	3502	01:13:00	73	-	OUT
			General Surgeon	2	04.07.2018	Wednesday		10:22:00	3082	11:27:00	3567	01:05:00	65	Elective	IN
			2				11:27:00	3147	19:00:00	4020	07:33:00	453	-	OUT	
Theatre 3															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	04.07.2018	Wednesday	37	0407T3E1	07:00:00	2880	12:53:00	3653	05:53:00	353	-	OUT
	13:00	Orthopedic	3	04.07.2018	Wednesday	38	0407T3E2	13:18:00	3258	14:02:00	3722	00:44:00	44	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	39	0407T3E3	14:05:00	3305	15:12:00	3792	01:07:00	67	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	40	0407T3E4	15:21:00	3372	15:21:00	3801	00:09:00	9	-	OUT
		Orthopedic	3	04.07.2018	Wednesday	41	0407T3E5	17:28:00	3508	18:57:00	4017	01:29:00	89	Elective	IN
		Orthopedic	3				18:57:00	4017	19:00:00	4020	00:03:00	3	-	OUT	
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	4	04.07.2018	Wednesday	42	0407T4NE1	07:48:00	2928	08:40:00	3400	00:52:00	52	Non-Elective	OUT
	19:00	General Surgeon	4	04.07.2018	Wednesday	43	0407T4E1	08:40:00	2980	08:51:00	3411	00:11:00	11	-	IN
		General Surgeon	4	04.07.2018	Wednesday	44	0407T4E2	11:54:00	3174	13:44:00	3704	01:50:00	110	Elective	IN
		Obstetrics and Gynaecology	4	04.07.2018	Wednesday	x	0407T4NE2	19:04:00	3804	19:30:00	4050	00:26:00	26	Non-Elective	IN
Summary															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	33	0407T1NE1	07:00:00	2880	07:56:00	3356	00:56:00	56	Non-Elective	IN
	13:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	34	0407T1NE2	08:12:00	2952	09:06:00	3425	00:53:00	53	Non-Elective	IN
		19:00		1				13:00:00	3240	19:00:00	4020	06:00:00	360	-	OUT
General Surgeon	07:00	General Surgeon	2	04.07.2018	Wednesday	35	0407T2E1	07:00:00	2880	08:00:00	3360	01:00:00	60	-	OUT
	19:00	General Surgeon	2	04.07.2018	Wednesday	36	0407T2E2	09:09:00	3009	10:22:00	3502	01:13:00	73	-	OUT
			General Surgeon	2	04.07.2018	Wednesday		10:22:00	3082	11:27:00	3567	01:05:00	65	Elective	IN
Orthopedic	07:00	Orthopedic	3	04.07.2018	Wednesday	37	0407T3E1	07:00:00	2880	12:53:00	3653	05:53:00	353	-	OUT
	13:00	Orthopedic	3	04.07.2018	Wednesday	38	0407T3E2	13:18:00	3258	14:02:00	3722	00:44:00	44	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	39	0407T3E3	14:05:00	3305	15:12:00	3792	01:07:00	67	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	40	0407T3E4	15:21:00	3372	15:21:00	3801	00:09:00	9	-	OUT
		Orthopedic	3	04.07.2018	Wednesday	41	0407T3E5	17:28:00	3508	18:57:00	4017	01:29:00	89	Elective	IN
		Orthopedic	3				18:57:00	4017	19:00:00	4020	00:03:00	3	-	OUT	
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	4	04.07.2018	Wednesday	42	0407T4NE1	07:48:00	2928	08:40:00	3400	00:52:00	52	Non-Elective	OUT
	19:00	General Surgeon	4	04.07.2018	Wednesday	43	0407T4E1	08:40:00	2980	08:51:00	3411	00:11:00	11	-	IN
		General Surgeon	4	04.07.2018	Wednesday	44	0407T4E2	11:54:00	3174	13:44:00	3704	01:50:00	110	Elective	IN
		Obstetrics and Gynaecology	4	04.07.2018	Wednesday	x	0407T4NE2	19:04:00	3804	19:30:00	4050	00:26:00	26	Non-Elective	IN
Summary															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	33	0407T1NE1	07:00:00	2880	07:56:00	3356	00:56:00	56	Non-Elective	IN
	13:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	34	0407T1NE2	08:12:00	2952	09:06:00	3425	00:53:00	53	Non-Elective	IN
		19:00		1				13:00:00	3240	19:00:00	4020	06:00:00	360	-	OUT
General Surgeon	07:00	General Surgeon	2	04.07.2018	Wednesday	35	0407T2E1	07:00:00	2880	08:00:00	3360	01:00:00	60	-	OUT
	19:00	General Surgeon	2	04.07.2018	Wednesday	36	0407T2E2	09:09:00	3009	10:22:00	3502	01:13:00	73	-	OUT
			General Surgeon	2	04.07.2018	Wednesday		10:22:00	3082	11:27:00	3567	01:05:00	65	Elective	IN
Orthopedic	07:00	Orthopedic	3	04.07.2018	Wednesday	37	0407T3E1	07:00:00	2880	12:53:00	3653	05:53:00	353	-	OUT
	13:00	Orthopedic	3	04.07.2018	Wednesday	38	0407T3E2	13:18:00	3258	14:02:00	3722	00:44:00	44	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	39	0407T3E3	14:05:00	3305	15:12:00	3792	01:07:00	67	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	40	0407T3E4	15:21:00	3372	15:21:00	3801	00:09:00	9	-	OUT
		Orthopedic	3	04.07.2018	Wednesday	41	0407T3E5	17:28:00	3508	18:57:00	4017	01:29:00	89	Elective	IN
		Orthopedic	3				18:57:00	4017	19:00:00	4020	00:03:00	3	-	OUT	
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	4	04.07.2018	Wednesday	42	0407T4NE1	07:48:00	2928	08:40:00	3400	00:52:00	52	Non-Elective	OUT
	19:00	General Surgeon	4	04.07.2018	Wednesday	43	0407T4E1	08:40:00	2980	08:51:00	3411	00:11:00	11	-	IN
		General Surgeon	4	04.07.2018	Wednesday	44	0407T4E2	11:54:00	3174	13:44:00	3704	01:50:00	110	Elective	IN
		Obstetrics and Gynaecology	4	04.07.2018	Wednesday	x	0407T4NE2	19:04:00	3804	19:30:00	4050	00:26:00	26	Non-Elective	IN
Summary															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	33	0407T1NE1	07:00:00	2880	07:56:00	3356	00:56:00	56	Non-Elective	IN
	13:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	34	0407T1NE2	08:12:00	2952	09:06:00	3425	00:53:00	53	Non-Elective	IN
		19:00		1				13:00:00	3240	19:00:00	4020	06:00:00	360	-	OUT
General Surgeon	07:00	General Surgeon	2	04.07.2018	Wednesday	35	0407T2E1	07:00:00	2880	08:00:00	3360	01:00:00	60	-	OUT
	19:00	General Surgeon	2	04.07.2018	Wednesday	36	0407T2E2	09:09:00	3009	10:22:00	3502	01:13:00	73	-	OUT
			General Surgeon	2	04.07.2018	Wednesday		10:22:00	3082	11:27:00	3567	01:05:00	65	Elective	IN
Orthopedic	07:00	Orthopedic	3	04.07.2018	Wednesday	37	0407T3E1	07:00:00	2880	12:53:00	3653	05:53:00	353	-	OUT
	13:00	Orthopedic	3	04.07.2018	Wednesday	38	0407T3E2	13:18:00	3258	14:02:00	3722	00:44:00	44	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	39	0407T3E3	14:05:00	3305	15:12:00	3792	01:07:00	67	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	40	0407T3E4	15:21:00	3372	15:21:00	3801	00:09:00	9	-	OUT
		Orthopedic	3	04.07.2018	Wednesday	41	0407T3E5	17:28:00	3508	18:57:00	4017	01:29:00	89	Elective	IN
		Orthopedic	3				18:57:00	4017	19:00:00	4020	00:03:00	3	-	OUT	
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	4	04.07.2018	Wednesday	42	0407T4NE1	07:48:00	2928	08:40:00	3400	00:52:00	52	Non-Elective	OUT
	19:00	General Surgeon	4	04.07.2018	Wednesday	43	0407T4E1	08:40:00	2980	08:51:00	3411	00:11:00	11	-	IN
		General Surgeon	4	04.07.2018	Wednesday	44	0407T4E2	11:54:00	3174	13:44:00	3704	01:50:00	110	Elective	IN
		Obstetrics and Gynaecology	4	04.07.2018	Wednesday	x	0407T4NE2	19:04:00	3804	19:30:00	4050	00:26:00	26	Non-Elective	IN
Summary															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	33	0407T1NE1	07:00:00	2880	07:56:00	3356	00:56:00	56	Non-Elective	IN
	13:00	Obstetrics and Gynaecology	1	04.07.2018	Wednesday	34	0407T1NE2	08:12:00	2952	09:06:00	3425	00:53:00	53	Non-Elective	IN
		19:00		1				13:00:00	3240	19:00:00	4020	06:00:00	360	-	OUT
General Surgeon	07:00	General Surgeon	2	04.07.2018	Wednesday	35	0407T2E1	07:00:00	2880	08:00:00	3360	01:00:00	60	-	OUT
	19:00	General Surgeon	2	04.07.2018	Wednesday	36	0407T2E2	09:09:00	3009	10:22:00	3502	01:13:00	73	-	OUT
			General Surgeon	2	04.07.2018	Wednesday		10:22:00	3082	11:27:00	3567	01:05:00	65	Elective	IN
Orthopedic	07:00	Orthopedic	3	04.07.2018	Wednesday	37	0407T3E1	07:00:00	2880	12:53:00	3653	05:53:00	353	-	OUT
	13:00	Orthopedic	3	04.07.2018	Wednesday	38	0407T3E2	13:18:00	3258	14:02:00	3722	00:44:00	44	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	39	0407T3E3	14:05:00	3305	15:12:00	3792	01:07:00	67	Elective	IN
		Orthopedic	3	04.07.2018	Wednesday	40	0407T3E4	15:21:00	3372	15:21:00	3801	00:09:00	9	-	OUT
		Orthopedic	3	04.07.2018	Wednesday	41	0407T3E5	17:28:00	3508	18:57:00	4017	01:29:00	89	Elective	IN
		Orthopedic	3				18:57:00	4017	19:00:00	4020	00:03:00	3	-	OUT	
Theatre 4															
Physician Specialties	Block														

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Theatre 1																			
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	In Service	Out of Service	Over Time	Utilization
Ear, Nose and Throat	07:00	13:00	1	06.07.2018	Friday	67	0607TNE1	07:00:00	5760	07:01:00	6181	00:01:00	1	-	OUT	01:30:00	10:30:00	00:00:00	12.50%
	13:00	19:00	1	06.07.2018	Friday	68	0607TNE1	13:00:00	6120	13:01:00	6640	00:01:00	73	-	OUT	21.69%			
			1	06.07.2018	Friday	68	0607TNE1	14:57:00	6237	19:00:00	6900	04:03:00	243	-	OUT				
Theatre 2																			
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	In Service	Out of Service	Over Time	Utilization
General Surgeon	07:00	19:00	2	06.07.2018	Friday	69	0607TNE1	08:58:00	5878	10:58:00	6418	02:00:00	120	Elective	IN	04:05:00	08:49:00	00:52:00	26.53%
			2	06.07.2018	Friday	70	0607TNE1	11:51:00	6051	12:54:00	6534	00:03:00	63	Non-Elective	IN	29.46%			
			2	06.07.2018	Friday	71	0607TNE2	12:54:00	6114	18:52:00	6892	05:58:00	358	-	OUT				
			2	06.07.2018	Friday	71	0607TNE2	18:52:00	6472	19:52:00	6952	01:00:00	60	Non-Elective	IN				
Theatre 3																			
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	In Service	Out of Service	Over Time	Utilization
Orthopaedic	07:00	13:00	3	06.07.2018	Friday	72	0607TNE1	07:00:00	5760	08:06:00	6248	01:06:00	66	Non-Elective	IN	10:43:00	08:49:00	03:12:00	50.08%
			3	06.07.2018	Friday	73	0607TNE2	08:06:00	5826	08:08:00	6248	00:02:00	2	-	OUT				
			3	06.07.2018	Friday	73	0607TNE2	08:08:00	5828	09:21:00	6331	01:13:00	73	Non-Elective	IN				
			3	06.07.2018	Friday	73	0607TNE2	09:21:00	5901	13:00:00	6540	03:39:00	219	-	OUT				
Orthopaedic	13:00	19:00	3	06.07.2018	Friday	74	0607TNE3	13:00:00	6120	13:10:00	6550	00:10:00	10	-	OUT				
			3	06.07.2018	Friday	74	0607TNE3	13:10:00	6130	14:28:00	6628	01:18:00	78	Non-Elective	IN				
			3	06.07.2018	Friday	75	0607TNE4	14:28:00	6208	14:40:00	6640	00:12:00	12	-	OUT				
			3	06.07.2018	Friday	75	0607TNE4	14:40:00	6220	16:56:00	6776	02:16:00	136	Non-Elective	IN				
Orthopaedic	Overtime		3	06.07.2018	Friday	76	0607TNE5	17:22:00	6356	17:22:00	6802	00:26:00	26	-	OUT				
			3	06.07.2018	Friday	76	0607TNE5	17:22:00	6382	20:12:00	6972	02:50:00	170	Non-Elective	IN				
Theatre 4																			
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	In Service	Out of Service	Over Time	Utilization
Obstetrics and Gynaecology	07:00	13:00	4	06.07.2018	Friday	77	0607TNE1	07:15:00	5775	07:15:00	6195	00:15:00	15	-	OUT	02:25:00	09:35:00	00:00:00	20.14%
			4	06.07.2018	Friday	78	0607TNE2	07:48:00	5808	08:31:00	6271	00:43:00	43	Elective	IN	48%			
			4	06.07.2018	Friday	79	0607TNE3	08:31:00	5851	09:06:00	6306	00:35:00	35	Elective	IN				
			4	06.07.2018	Friday	80	0607TNE4	09:06:00	5886	09:40:00	6340	00:34:00	34	Elective	IN				
Obstetrics and Gynaecology	13:00	19:00	4	06.07.2018	Friday			09:40:00	5920	13:00:00	6540	03:20:00	200	-	OUT				
			4	06.07.2018	Friday			13:00:00	6120	19:00:00	6900	06:00:00	360	-	OUT				

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Theatre 1																		
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE			
General Surgeon	07:00	General Surgeon	1	09.07.2018	Monday	81	090871N1	07:00:00	10:00	07:21:00	10:01	01:21:00	21	-	OUT			
			1	09.07.2018	Monday	81	090871N1	07:21:00	10:01	08:23:00	10:03	01:02:00	62	Non-Elective	IN			
			1	09.07.2018	Monday	82	090871N2	08:23:00	10:03	08:32:00	10:12	00:09:00	9	-	OUT			
			1	09.07.2018	Monday	82	090871N2	08:32:00	10:12	09:15:00	10:19	00:43:00	47	Non-Elective	IN			
			1	09.07.2018	Monday	83	090871N3	09:15:00	10:19	09:24:00	10:24	00:05:00	5	-	OUT			
General Surgeon	07:00	General Surgeon	1	09.07.2018	Monday	83	090871N3	09:24:00	10:24	09:50:00	10:24	00:26:00	26	Non-Elective	IN			
			1	09.07.2018	Monday	83	090871N3	09:50:00	10:24	10:00:00	10:00	00:10:00	550	-	OUT			
			1	09.07.2018	Monday	x	090871N4	20:46:01	10:06	22:08:00	10:08	01:22:00	82	Non-Elective	IN			
			Theatre 2															
			Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2	09.07.2018	Monday	84	090872E1	07:00:00	10:00	08:24:00	10:04	01:24:00	84	-	OUT			
			2	09.07.2018	Monday	84	090872E1	08:24:00	10:04	09:53:00	10:06	01:29:00	89	Elective	IN			
			2	09.07.2018	Monday	85	090872E2	09:53:00	10:06	10:00:00	10:00	00:07:00	7	-	OUT			
			2	09.07.2018	Monday	85	090872E2	10:00:00	10:06	11:43:00	10:06	01:43:00	103	Elective	IN			
			2	09.07.2018	Monday	86	090872E3	11:43:00	10:06	11:51:00	10:06	00:08:00	8	-	OUT			
			2	09.07.2018	Monday	87	090872E5	13:18:00	10:06	13:18:00	10:06	00:07:00	7	-	IN			
			2	09.07.2018	Monday	87	090872E5	13:25:00	10:06	13:25:00	10:06	00:07:00	7	-	OUT			
			2	09.07.2018	Monday	87	090872E5	13:25:00	10:06	14:50:00	10:06	01:25:00	85	Elective	IN			
			2	09.07.2018	Monday	88	090872E6	14:50:00	10:06	14:55:00	10:06	00:05:00	5	-	OUT			
			2	09.07.2018	Monday	88	090872E6	14:55:00	10:06	16:01:00	10:06	01:06:00	66	Elective	IN			
General Surgeon	07:00	General Surgeon	2	09.07.2018	Monday	89	090872E6	16:01:00	10:06	16:08:00	10:06	00:07:00	7	-	OUT			
			2	09.07.2018	Monday	90	090872E7	16:08:00	10:06	17:26:00	10:06	01:18:00	78	Elective	IN			
			2	09.07.2018	Monday	90	090872E7	17:26:00	10:06	17:35:00	10:15	00:09:00	9	-	OUT			
			2	09.07.2018	Monday	91	090872E8	17:35:00	10:15	18:19:00	10:15	00:44:00	44	Elective	IN			
			2	09.07.2018	Monday	91	090872E8	18:19:00	10:15	18:29:00	10:15	00:10:00	10	-	OUT			
General Surgeon	07:00	General Surgeon	2	09.07.2018	Monday	92	090872E9	18:29:00	10:15	18:57:00	10:15	00:28:00	28	Elective	IN			
			2	09.07.2018	Monday	92	090872E9	18:57:00	10:15	19:00:00	10:15	00:03:00	3	-	OUT			
			2	09.07.2018	Monday	x	090872N1	19:12:00	10:12	20:13:00	10:12	01:01:00	61	Non-Elective	IN			
			Theatre 3															
			Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	09.07.2018	Monday	93	090873E1	07:00:00	10:00	08:59:00	10:09	01:59:00	119	-	OUT			
			3	09.07.2018	Monday	93	090873E1	08:59:00	10:09	09:52:00	10:09	00:53:00	53	Elective	IN			
			3	09.07.2018	Monday	94	090873E2	09:52:00	10:09	11:20:00	10:09	01:28:00	88	-	OUT			
			3	09.07.2018	Monday	94	090873E2	11:20:00	10:09	13:01:00	10:09	01:41:00	101	Elective	IN			
			3	09.07.2018	Monday	95	090873E3	13:01:00	10:09	16:54:00	10:09	03:53:00	233	-	OUT			
Orthopedic	07:00	Orthopedic	3	09.07.2018	Monday	95	090873E3	16:54:00	10:09	17:49:00	10:09	00:55:00	55	Elective	IN			
			3	09.07.2018	Monday	95	090873E3	17:49:00	10:09	19:00:00	10:09	01:11:00	71	-	OUT			
			Theatre 4															
			Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
			Orthopedic	07:00	Orthopedic	4	09.07.2018	Monday	96	090873E1	07:00:00	10:00	07:34:00	10:14	00:34:00	34	-	OUT
4	09.07.2018	Monday				96	090873E1	07:34:00	10:14	09:06:00	10:14	01:32:00	92	Elective	IN			
4	09.07.2018	Monday				97	090873E2	09:06:00	10:14	09:51:00	10:21	00:45:00	45	-	OUT			
4	09.07.2018	Monday				97	090873E2	09:51:00	10:21	11:36:00	10:21	01:45:00	105	Elective	IN			
4	09.07.2018	Monday				97	090873E2	11:36:00	10:21	13:00:00	10:21	01:24:00	84	-	OUT			
4	09.07.2018	Monday				98	090873E3	13:00:00	10:21	13:44:00	10:21	00:44:00	44	-	OUT			
4	09.07.2018	Monday				98	090873E3	13:44:00	10:21	14:12:00	10:21	00:28:00	28	Elective	IN			
4	09.07.2018	Monday				99	090873E4	14:12:00	10:21	14:57:00	10:21	00:45:00	45	Elective	IN			
4	09.07.2018	Monday				99	090873E4	14:57:00	10:21	15:57:00	10:21	00:01:00	1	-	OUT			
4	09.07.2018	Monday				100	090873E5	15:57:00	10:21	15:28:00	10:21	00:29:00	29	Elective	IN			
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology	4	09.07.2018	Monday	100	090873E5	15:28:00	10:21	15:28:00	10:21	00:01:00	1	-	OUT			
			4	09.07.2018	Monday	101	090873E6	15:28:00	10:21	16:03:00	10:21	00:35:00	35	Elective	IN			
			4	09.07.2018	Monday	102	090873E7	16:03:00	10:21	16:33:00	10:21	00:30:00	30	Elective	IN			
			4	09.07.2018	Monday	103	090873E8	16:33:00	10:21	17:09:00	10:21	00:36:00	36	Elective	IN			
			4	09.07.2018	Monday	104	090873E9	17:09:00	10:21	18:06:00	10:21	00:57:00	57	Elective	IN			
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology	4	09.07.2018	Monday	104	090873E9	18:06:00	10:21	19:00:00	10:21	00:54:00	54	-	OUT			
			4	09.07.2018	Monday	104	090873E9	18:06:00	10:21	19:00:00	10:21	00:54:00	54	-	OUT			
			Theatre 5															
			Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
			Orthopedic	07:00	Orthopedic	5	09.07.2018	Monday	99	090874E1	07:00:00	10:00	08:59:00	10:09	01:59:00	119	-	OUT
5	09.07.2018	Monday				100	090874E2	09:52:00	10:09	11:20:00	10:09	01:28:00	88	Elective	IN			
5	09.07.2018	Monday				101	090874E3	13:01:00	10:09	13:01:00	10:09	00:00:00	101	Elective	OUT			
5	09.07.2018	Monday				102	090874E4	13:01:00	10:09	16:54:00	10:09	03:53:00	233	-	IN			
5	09.07.2018	Monday				102	090874E4	16:54:00	10:09	17:49:00	10:09	00:55:00	55	Elective	IN			
Theatre 6																		
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE			
Orthopedic	07:00	Orthopedic	6	09.07.2018	Monday	103	090875E1	07:00:00	10:00	07:34:00	10:14	00:34:00	34	-	OUT			
			6	09.07.2018	Monday	103	090875E1	07:34:00	10:14	09:05:00	10:14	01:31:00	92	Elective	IN			
			6	09.07.2018	Monday	104	090875E2	09:06:00	10:14	09:51:00	10:21	00:45:00	45	-	OUT			
			6	09.07.2018	Monday	104	090875E2	09:51:00	10:21	11:36:00	10:21	01:45:00	105	Elective	IN			
			6	09.07.2018	Monday	105	090875E3	11:36:00	10:21	13:00:00	10:21	01:24:00	84	-	OUT			
			6	09.07.2018	Monday	105	090875E3	13:00:00	10:21	13:44:00	10:21	00:44:00	44	-	OUT			
			6	09.07.2018	Monday	106	090875E4	14:12:00	10:21	14:57:00	10:21	00:45:00	45	Elective	IN			
			6	09.07.2018	Monday	107	090875E5	14:57:00	10:21	15:57:00	10:21	00:01:00	1	-	OUT			
			6	09.07.2018	Monday	108	090875E6	15:28:00	10:21	15:28:00	10:21	00:00:00	1	Elective	IN			
			6	09.07.2018	Monday	109	090875E7	16:03:00	10:21	16:03:00	10:21	00:00:00	35	Elective	IN			
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology	6	09.07.2018	Monday	110	090875E8	16:03:00	10:21	16:33:00	10:21	00:30:00	30	Elective	IN			
			6	09.07.2018	Monday	110	090875E8	16:33:00	10:21	17:09:00	10:21	00:36:00	36	Elective	IN			
			6	09.07.2018	Monday	111	090875E9	17:09:00	10:21	18:06:00	10:21	00:57:00	57	Elective	IN			
			6	09.07.2018	Monday	111	090875E9	18:06:00	10:21	19:00:00	10:21	00:54:00	54	-	OUT			

10-Jul																
Theatre 1																
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopaedic	07:00	16:00	1					07:00:00	11520	16:00:00	12060	09:00:00	540	-	OUT	
	16:00	19:00	1					16:00:00	12060	19:00:00	12240	03:00:00	180	-	OUT	
Theatre 2																
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
General Surgeon	07:00	General Surgeon	2	10.09.2018	Tuesday	105	100872E1	07:00:00	11520	08:02:00	11582	01:02:00	62	-	OUT	
			2						08:02:00	11582	09:09:00	11649	01:07:00	67	Elective	IN
			2	10.09.2018	Tuesday	106	100872E2	09:09:00	11649	09:17:00	11657	00:08:00	8	-	OUT	
			2						09:17:00	11657	11:42:00	11802	02:25:00	145	Elective	IN
General Surgeon	19:00	General Surgeon	2	10.09.2018	Tuesday	107	100872NE1	11:42:00	11802	16:22:00	12082	04:40:00	280	-	OUT	
			2						16:22:00	12082	18:24:00	12204	02:02:00	122	Non-Elective	IN
			2				18:24:00	12204	19:00:00	12240	00:36:00	36	-	OUT		
Theatre 3																
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopaedic	07:00	Urology	3	10.09.2018	Tuesday	108	100873NE1	07:00:00	11520	07:54:00	11574	00:54:00	54	-	OUT	
			3						07:54:00	11574	08:36:00	11616	00:42:00	42	Non-Elective	IN
			3	10.09.2018	Tuesday	109	100873NE2	08:36:00	11616	11:44:00	11804	03:08:00	188	-	OUT	
			3						11:44:00	11804	12:41:00	11861	00:57:00	57	Non-Elective	IN
General Surgeon	19:00	General Surgeon	3	10.09.2018	Tuesday	110	100873NE3	12:41:00	11861	18:24:00	12204	05:43:00	343	-	OUT	
			3						18:24:00	12204	19:33:00	12273	01:09:00	69	Non-Elective	IN
Theatre 4																
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Obstetrics and Gynaecology	07:00	13:00	4					07:00:00	11520	13:00:00	11880	06:00:00	360	-	OUT	
	13:00	19:00	4					13:00:00	11880	19:00:00	12240	06:00:00	360	-	OUT	
Urology																

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11-Jul													
Theatre 1													
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00 - 13:00	1	11.09.2018	Wednesday	111	1108T1E1	08:30:00	13:00	10:40:00	13:00	02:10:00	130	Elective
		1					10:40:00	13:00	13:00:00	13:00	02:20:00	140	
		1					13:00:00	13:20	19:00:00	13:60	06:00:00	360	
Overtime	13:00 - 19:00	1	11.09.2018	Wednesday	x	1108T1E1	19:00:00	19:00	20:56:00	19:56	01:56:00	106	Non-Elective
		2					19:00:00	19:00	19:00:00	19:00	12:00:00	720	
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00 - 19:00	2					07:00:00	12:00	19:00:00	12:00	12:00:00	0.00%	
Theatre 2													
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00 - 19:00	3	11.09.2018	Wednesday	112	1108T2E1	08:30:00	13:00	10:40:00	13:00	02:10:00	130	Elective
		3					10:40:00	13:00	13:00:00	13:00	02:20:00	140	
		3					13:00:00	13:20	19:00:00	13:60	06:00:00	360	
Overtime	13:00 - 19:00	3	11.09.2018	Wednesday	x	1108T2E1	19:00:00	19:00	20:56:00	19:56	01:56:00	106	Non-Elective
		4					19:00:00	19:00	19:00:00	19:00	12:00:00	720	
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00 - 19:00	4					07:00:00	12:00	19:00:00	12:00	12:00:00	0.00%	
Theatre 3													
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
Orthopedic	07:00 - 13:00	3	11.09.2018	Wednesday	113	1108T3E1	08:30:00	13:00	10:40:00	13:00	02:10:00	130	Elective
		3					10:40:00	13:00	13:00:00	13:00	02:20:00	140	
		3					13:00:00	13:20	19:00:00	13:60	06:00:00	360	
Overtime	13:00 - 19:00	3	11.09.2018	Wednesday	x	1108T3E1	19:00:00	19:00	20:56:00	19:56	01:56:00	106	Non-Elective
		4					19:00:00	19:00	19:00:00	19:00	12:00:00	720	
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
Orthopedic	07:00 - 19:00	4					07:00:00	12:00	19:00:00	12:00	12:00:00	0.00%	
Theatre 4													
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00 - 19:00	4	11.09.2018	Wednesday	121	1108T4E1	08:30:00	13:00	10:40:00	13:00	02:10:00	130	Elective
		4					10:40:00	13:00	13:00:00	13:00	02:20:00	140	
		4					13:00:00	13:20	19:00:00	13:60	06:00:00	360	
Overtime	13:00 - 19:00	4	11.09.2018	Wednesday	x	1108T4E1	19:00:00	19:00	20:56:00	19:56	01:56:00	106	Non-Elective
		5					19:00:00	19:00	19:00:00	19:00	12:00:00	720	
Physician Specialties	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective
General Surgeon	07:00 - 19:00	5					07:00:00	12:00	19:00:00	12:00	12:00:00	0.00%	

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Theatre 1																
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Urology	07:00	Urology	1	12.09.2018	Thursday	123	1208T1E1	07:00:00	14:00	14:13:00	14:83	07:13:00	433	-	OUT	
		Urology	1	12.09.2018	Thursday	123	1208T1E1	07:00:00	14:00	14:83	15:27:00	14:87	01:14:00	74	Elective	IN
		Urology	1	12.09.2018	Thursday	124	1208T1E2	15:30:00	14:07	15:30:00	14:90	00:03:00	3	-	OUT	
		Urology	1	12.09.2018	Thursday	124	1208T1E2	15:30:00	14:90	16:25:00	14:95	00:55:00	55	Elective	IN	
Overline	19:00	Urology	1	12.09.2018	Thursday	125	1208T1E3	16:32:00	14:05	16:32:00	14:92	00:07:00	7	-	OUT	
		Urology	1	12.09.2018	Thursday	125	1208T1E3	16:32:00	14:92	17:24:00	15:02	00:52:00	52	Elective	IN	
		Urology	1	12.09.2018	Thursday	126	1208T1E4	17:24:00	15:02	17:24:00	15:07	00:03:00	3	-	OUT	
		Urology	1	12.09.2018	Thursday	126	1208T1E4	17:24:00	15:07	19:21:00	15:141	01:54:00	114	Elective	IN	
Overline		Urology	1	12.09.2018	Thursday	x	1208T1NE1	19:25:00	15:145	20:39:00	15:219	01:14:00	74	Non-Elective	IN	
		Urology	1	12.09.2018	Thursday	x	1208T1NE2	20:46:00	15:265	21:31:00	15:271	00:45:00	45	Non-Elective	IN	
		Urology	1	12.09.2018	Thursday	x	1208T1NE3	21:39:00	15:279	22:22:00	15:322	00:43:00	43	Non-Elective	IN	
		Urology	1	12.09.2018	Thursday	x	1208T1NE4	22:35:00	15:335	23:04:00	15:364	00:29:00	29	Non-Elective	IN	
Overline		Urology	1	12.09.2018	Thursday	x	1208T1NE5	23:08:00	15:368	23:36:00	15:396	00:28:00	28	Non-Elective	IN	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
General Surgeon	07:00	Teeth	2	12.09.2018	Thursday	127	1208T2NE1	07:00:00	14:00	07:09:00	14:09	00:09:00	9	-	OUT	
		Teeth	2	12.09.2018	Thursday	127	1208T2NE1	07:00:00	14:00	07:54:00	14:454	00:45:00	45	Non-Elective	IN	
		Teeth	2	12.09.2018	Thursday	128	1208T2NE2	08:21:00	14:481	08:21:00	14:481	00:27:00	27	-	OUT	
		Teeth	2	12.09.2018	Thursday	128	1208T2NE2	08:21:00	14:481	08:51:00	14:511	00:30:00	30	Non-Elective	IN	
Overline		General Surgeon	2	12.09.2018	Thursday	129	1208T2NE3	13:24:00	14:511	12:18:00	14:718	03:27:00	207	-	OUT	
		General Surgeon	2	12.09.2018	Thursday	129	1208T2NE3	13:24:00	14:718	13:24:00	14:784	01:06:00	66	Non-Elective	IN	
		General Surgeon	2	12.09.2018	Thursday	130	1208T2NE4	15:29:00	14:784	19:00:00	15:120	05:36:00	336	-	OUT	
		General Surgeon	2	12.09.2018	Thursday	x	1208T2NE4	21:01:00	15:241	22:33:00	15:333	01:32:00	92	Non-Elective	IN	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	3	12.09.2018	Thursday	130	1208T3E1	07:00:00	14:400	08:06:00	14:466	01:06:00	66	-	OUT	
		Orthopedic	3	12.09.2018	Thursday	130	1208T3E1	08:06:00	14:466	11:17:00	14:657	03:11:00	191	Elective	IN	
		Orthopedic	3	12.09.2018	Thursday	131	1208T3E2	11:17:00	14:657	11:29:00	14:669	00:12:00	12	-	OUT	
		Orthopedic	3	12.09.2018	Thursday	131	1208T3E2	11:29:00	14:669	14:49:00	14:689	03:20:00	200	Elective	IN	
Overline		Orthopedic	3	12.09.2018	Thursday	132	1208T3E3	14:49:00	14:869	19:00:00	15:120	04:11:00	251	-	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	130	1208T4E1	07:00:00	14:400	13:00:00	14:760	06:00:00	360	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	130	1208T4E1	07:00:00	14:400	13:00:00	14:760	06:00:00	360	Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	131	1208T4E2	13:00:00	14:760	19:00:00	15:120	06:00:00	360	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	131	1208T4E2	13:00:00	14:760	19:00:00	15:120	06:00:00	360	Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	132	1208T4E3	15:12:00	15:120	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	132	1208T4E3	15:12:00	15:120	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	133	1208T4E4	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	133	1208T4E4	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	133	1208T4E4	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	133	1208T4E4	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	134	1208T4E5	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	134	1208T4E5	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	134	1208T4E5	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	134	1208T4E5	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	135	1208T4E6	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	135	1208T4E6	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	135	1208T4E6	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	135	1208T4E6	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	136	1208T4E7	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	136	1208T4E7	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	136	1208T4E7	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	136	1208T4E7	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	137	1208T4E8	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	137	1208T4E8	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	137	1208T4E8	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	137	1208T4E8	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	138	1208T4E9	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	138	1208T4E9	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	138	1208T4E9	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	138	1208T4E9	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	139	1208T4E10	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	139	1208T4E10	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	139	1208T4E10	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	139	1208T4E10	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	140	1208T4E11	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	140	1208T4E11	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	140	1208T4E11	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	140	1208T4E11	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
		Orthopedic	4	12.09.2018	Thursday	141	1208T4E12	15:33:00	15:333	23:33:00	15:333	01:33:00	92	-	OUT	
		Orthopedic	4	12.09.2018	Thursday	141	1208T4E12	15:33:00	15:333	23:33:00	15:333	01:33:00	92	Non-Elective	OUT	
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	13:00	Orthopedic	4	12.09.2018	Thursday	141	1208T4E12	15:33:00	15:333	23:33:00	15:333	01:3				

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Theatre 1															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Ear, Nose and Throat	07:00	Ear, Nose and Throat	1	12.09.2018	Friday	132	1308T1E1	07:00:00	15940	07:59:00	15989	00:59:00	59	-	OUT
		Ear, Nose and Throat	1	12.09.2018	Friday	133	1308T1E2	07:59:00	15926	08:33:00	15933	00:34:00	37	Elective	IN
		Ear, Nose and Throat	1	12.09.2018	Friday	134	1308T1E3	08:33:00	15957	08:57:00	15957	00:24:00	24	Elective	IN
		Ear, Nose and Throat	1	12.09.2018	Friday	135	1308T1E4	08:57:00	15957	13:00:00	16200	04:03:00	243	-	OUT
13:00	19:00	Orthopedic	1	12.09.2018	Friday	134	1308T1E1	14:00:00	16300	15:05:00	16325	00:25:00	25	Non-Elective	IN
		Orthopedic	1	12.09.2018	Friday	135	1308T1E2	15:05:00	16325	15:24:00	16344	00:19:00	19	-	OUT
		Orthopedic	1	12.09.2018	Friday	136	1308T1E3	15:24:00	16344	18:16:00	16516	02:52:00	172	Non-Elective	IN
		Orthopedic	1	12.09.2018	Friday	137	1308T1E4	18:16:00	16516	19:00:00	16560	00:44:00	44	-	OUT
Theatre 2															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	2	12.09.2018	Friday	136	1308T2E1	07:00:00	15940	07:04:00	15943	00:04:00	4	-	OUT
		General Surgeon	2	12.09.2018	Friday	137	1308T2E2	07:04:00	15943	08:03:00	15993	00:59:00	59	Non-Elective	IN
		General Surgeon	2	12.09.2018	Friday	138	1308T2E3	08:03:00	15993	10:28:00	16048	02:25:00	145	-	OUT
		General Surgeon	2	12.09.2018	Friday	139	1308T2E4	10:28:00	16048	11:21:00	16101	00:53:00	53	Elective	IN
		General Surgeon	2	12.09.2018	Friday	140	1308T2E5	11:21:00	16101	11:27:00	16107	00:06:00	6	-	OUT
		General Surgeon	2	12.09.2018	Friday	141	1308T2E6	11:27:00	16107	12:25:00	16165	00:58:00	58	Elective	IN
General Surgeon	07:00	General Surgeon	2	12.09.2018	Friday	139	1308T2E3	12:25:00	16165	16:23:00	16403	03:58:00	238	-	OUT
		General Surgeon	2	12.09.2018	Friday	142	1308T2E4	16:23:00	16403	17:12:00	16452	00:49:00	49	Elective	IN
General Surgeon	07:00	General Surgeon	2	12.09.2018	Friday	143	1308T2E5	17:12:00	16452	19:00:00	16560	01:48:00	108	-	OUT
		General Surgeon	2	12.09.2018	Friday	144	1308T2E6	19:00:00	16560	20:00:00	16600	00:40:00	40	-	OUT
Theatre 3															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	12.09.2018	Friday	140	1308T3E1	07:00:00	15940	07:25:00	15985	00:25:00	25	-	OUT
		Orthopedic	3	12.09.2018	Friday	141	1308T3E2	07:25:00	15985	08:00:00	15990	00:35:00	35	Non-Elective	IN
		Orthopedic	3	12.09.2018	Friday	142	1308T3E3	08:00:00	15990	08:04:00	15994	00:04:00	4	-	OUT
		Orthopedic	3	12.09.2018	Friday	143	1308T3E4	08:04:00	15994	09:05:00	15995	01:01:00	61	Non-Elective	IN
		Orthopedic	3	12.09.2018	Friday	144	1308T3E5	09:05:00	15995	09:09:00	15999	00:04:00	4	-	OUT
		Orthopedic	3	12.09.2018	Friday	145	1308T3E6	09:09:00	15999	09:17:00	16007	00:38:00	38	Non-Elective	IN
General Surgeon	13:00	General Surgeon	3	12.09.2018	Friday	143	1308T3E4	09:47:00	16007	12:45:00	16185	02:58:00	178	-	OUT
		General Surgeon	3	12.09.2018	Friday	144	1308T3E5	12:45:00	16185	15:10:00	16330	03:25:00	145	Non-Elective	IN
General Surgeon	13:00	General Surgeon	3	12.09.2018	Friday	145	1308T3E6	15:10:00	16330	19:00:00	16560	03:50:00	230	-	OUT
		General Surgeon	3	12.09.2018	Friday	146	1308T3E7	19:00:00	16560	20:00:00	16600	00:40:00	40	-	OUT
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	12.09.2018	Friday	144	1308T4E1	07:00:00	15940	07:17:00	15957	00:17:00	17	-	OUT
		Obstetrics and Gynaecology	4	12.09.2018	Friday	145	1308T4E2	07:17:00	15957	08:09:00	15988	00:41:00	41	Elective	IN
		Obstetrics and Gynaecology	4	12.09.2018	Friday	146	1308T4E3	08:09:00	15988	08:58:00	15998	00:49:00	49	Non-Elective	IN
		Obstetrics and Gynaecology	4	12.09.2018	Friday	147	1308T4E4	08:58:00	15998	09:02:00	15999	00:04:00	4	-	OUT
		Obstetrics and Gynaecology	4	12.09.2018	Friday	148	1308T4E5	09:02:00	15999	09:20:00	16000	00:18:00	18	Non-Elective	IN
		Obstetrics and Gynaecology	4	12.09.2018	Friday	149	1308T4E6	09:20:00	16000	09:50:00	16010	00:30:00	30	-	OUT
General Surgeon	13:00	General Surgeon	4	12.09.2018	Friday	145	1308T4E2	09:50:00	16010	13:00:00	16200	03:10:00	190	-	OUT
		General Surgeon	4	12.09.2018	Friday	146	1308T4E3	13:00:00	16200	19:00:00	16560	06:00:00	360	-	OUT

In Service	04:08:00
Out of Service	07:52:00
Overtime	00:00:00
Utilization	34.4%

In Service	03:39:00
Out of Service	08:21:00
Overtime	00:00:00
Utilization	30.42%

In Service	04:39:00
Out of Service	07:21:00
Overtime	00:00:00
Utilization	38.7%

In Service	02:18:00
Out of Service	09:42:00
Overtime	00:00:00
Utilization	19.17%

In Service	02:18:00
Out of Service	09:42:00
Overtime	00:00:00
Utilization	19.17%

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Theatre 1															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic	1	17/09/2018	Tuesday	167	170871E1	07:00:00	21600	08:58:00	21718	01:58:00	118	Elective	IN
		Orthopaedic	1	17/09/2018	Tuesday	168	170871E2	09:04:00	21718	10:55:00	21835	01:51:00	6	-	OUT
		Orthopaedic	1	17/09/2018	Tuesday	169	170871E3	11:06:00	21835	12:28:00	21928	01:22:00	11	Elective	IN
		Orthopaedic	1	17/09/2018	Tuesday	170	170871E4	12:28:00	21928	14:00:00	22140	03:32:00	82	Elective	OUT
	16:00	19:00						16:00:00	22140	19:00:00	22320	03:00:00	180	-	OUT
Theatre 2															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2	17/09/2018	Tuesday	170	170872E1	07:00:00	21600	07:53:00	21653	00:53:00	53	Elective	OUT
		General Surgeon	2	17/09/2018	Tuesday	171	170872E2	08:19:00	21653	08:19:00	21679	00:26:00	26	Elective	IN
		General Surgeon	2	17/09/2018	Tuesday	172	170872E3	09:30:00	21679	09:30:00	21750	01:02:00	9	-	OUT
		General Surgeon	2	17/09/2018	Tuesday	173	170872E4	10:43:00	21750	11:56:00	21896	02:13:00	133	Elective	IN
		General Surgeon	2	17/09/2018	Tuesday	174	170872E5	12:14:00	21896	12:14:00	21914	00:18:00	18	-	OUT
								12:57:00	21914	19:00:00	22320	06:03:00	43	Elective	IN
								12:57:00	21957				363	-	OUT
Theatre 3															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic	3	17/09/2018	Tuesday	174	170873E1	07:00:00	21600	07:44:00	21644	00:44:00	44	Elective	IN
		Orthopaedic	3	17/09/2018	Tuesday	175	170873E2	07:54:00	21644	09:10:00	21730	01:16:00	10	-	OUT
		Orthopaedic	3	17/09/2018	Tuesday	176	170873E3	09:10:00	21730	09:17:00	21737	00:07:00	7	-	OUT
		Orthopaedic	3	17/09/2018	Tuesday	177	170873E4	09:53:00	21737	09:53:00	21773	00:36:00	36	Elective	IN
		Orthopaedic	3	17/09/2018	Tuesday	178	170873E5	10:17:00	21773	10:17:00	21797	00:24:00	24	-	OUT
		Orthopaedic	3	17/09/2018	Tuesday	179	170873E6	11:05:00	21797	11:05:00	21845	00:48:00	48	Elective	IN
								11:05:00	21845	11:06:00	21846	00:01:00	1	-	OUT
								11:06:00	21846	11:29:00	21869	00:23:00	23	Elective	IN
								11:29:00	21869	18:36:00	22296	07:07:00	427	-	OUT
								18:36:00	22296	20:07:00	22387	01:31:00	91	Non-Elective	IN
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	17/09/2018	Tuesday	180	170874E1	07:00:00	21600	07:17:00	21617	00:17:00	17	-	OUT
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	181	170874E2	08:06:00	21617	08:06:00	21666	00:49:00	49	Elective	IN
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	182	170874E3	08:56:00	21666	08:56:00	21669	00:03:00	3	-	OUT
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	183	170874E4	09:03:00	21669	09:03:00	21723	00:54:00	54	Elective	IN
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	184	170874E5	09:05:00	21723	09:05:00	21725	00:02:00	2	-	OUT
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	185	170874E6	09:49:00	21725	09:49:00	21769	00:44:00	44	-	IN
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	186	170874E7	10:51:00	21769	10:51:00	21771	00:02:00	2	-	OUT
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	187	170874E8	10:42:00	21771	10:42:00	21822	00:51:00	51	Elective	IN
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	188	170874E9	10:45:00	21822	10:45:00	21825	00:03:00	3	-	OUT
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	189	170874E10	11:42:00	21825	11:42:00	21882	00:57:00	57	Elective	IN
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	190	170874E11	11:42:00	21882	11:42:00	21886	00:04:00	4	-	OUT
		Obstetrics and Gynaecology	4	17/09/2018	Tuesday	191	170874E12	12:25:00	21886	12:25:00	21923	00:37:00	37	Elective	IN
								12:25:00	21923	13:11:00	21971	00:46:00	46	-	OUT
								13:11:00	21971	13:14:00	21974	00:03:00	3	-	OUT
								13:14:00	21974	14:19:00	22039	01:05:00	65	Elective	IN
								14:19:00	22039	14:21:00	22041	00:02:00	2	-	OUT
								14:21:00	22041	15:02:00	22082	00:41:00	41	Elective	IN
								15:02:00	22082	17:02:00	22202	02:00:00	120	-	OUT
								17:02:00	22202	17:52:00	22332	00:50:00	30	Non-Elective	IN
								17:52:00	22332	19:00:00	22320	01:28:00	88	-	OUT

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18-Jul														
Theatre 1														
Physician Specialities	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	1	18.09.2018	Wednesday	190	180871E1	07:00:00	23040	07:58:00	23098	00:58:00	58	-	OUT
		1					08:40:00	23140	08:40:00	23140	00:42:00	42	Non-Elective	IN
	13:00	1	18.09.2018	Wednesday	191	180871E2	13:16:00	23416	13:54:00	23464	00:38:00	38	-	OUT
		1	18.09.2018	Wednesday	192	180871E3	18:27:00	23727	18:48:00	23748	00:21:00	21	Non-Elective	IN
		1				18:48:00	23748	19:00:00	23760	00:12:00	12	-	OUT	
Theatre 2														
Physician Specialities	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	2	18.09.2018	Wednesday	193	180872E1	07:00:00	23069	07:59:00	23131	00:59:00	59	-	OUT
		2	18.09.2018	Wednesday	194	180872E2	08:31:00	23131	08:38:00	23138	00:07:00	7	Elective	IN
		2	18.09.2018	Wednesday	195	180872E3	09:14:00	23174	09:19:00	23179	00:05:00	5	Elective	IN
		2	18.09.2018	Wednesday	196	180872E4	10:24:00	23244	11:48:00	23328	01:24:00	84	Elective	OUT
		2	18.09.2018	Wednesday	197	180872E5	11:48:00	23328	11:57:00	23337	00:09:00	9	-	OUT
	19:00	2	18.09.2018	Wednesday	198	180872E6	14:00:00	23460	15:51:00	23571	01:51:00	111	Elective	IN
		2	18.09.2018	Wednesday	199	180872E7	16:02:00	23571	16:02:00	23582	00:11:00	11	-	OUT
		2	18.09.2018	Wednesday			16:02:00	23582	19:40:00	23800	03:38:00	218	Elective	IN
Theatre 3														
Physician Specialities	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	3	18.09.2018	Wednesday	200	180873E1	07:00:00	23040	12:55:00	23395	05:55:00	355	-	OUT
		3	18.09.2018	Wednesday	201	180873E2	13:41:00	23441	14:07:00	23467	00:26:00	26	Elective	IN
	13:00	3	18.09.2018	Wednesday	202	180873E3	14:07:00	23467	14:08:00	23468	00:01:00	1	-	OUT
		3	18.09.2018	Wednesday	203	180873E4	15:17:00	23537	16:15:00	23595	00:58:00	58	Elective	IN
		3	18.09.2018	Wednesday	204	180873E5	16:15:00	23595	16:19:00	23599	00:04:00	4	Elective	IN
		3	18.09.2018	Wednesday	205	180873E6	17:20:00	23659	17:50:00	23690	00:30:00	30	Elective	IN
		3	18.09.2018	Wednesday	206	180873E7	17:51:00	23690	18:40:00	23740	00:49:00	49	Non-Elective	IN
		3	18.09.2018	Wednesday			18:40:00	23740	19:00:00		00:20:00	20	-	OUT
		3	18.09.2018	Wednesday			14:07:00	23467	14:07:00	23467	00:00:00	0	-	IN
		3	18.09.2018	Wednesday			16:15:00	23595	16:19:00	23599	00:04:00	4	-	OUT
		3	18.09.2018	Wednesday			17:19:00	23659	17:20:00	23660	00:01:00	1	-	OUT
		3	18.09.2018	Wednesday			17:50:00	23690	17:51:00	23691	00:01:00	1	-	OUT
		3	18.09.2018	Wednesday										
Theatre 4														
Physician Specialities	Block	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	4	18.09.2018	Wednesday	207	180874E1	07:00:00	23040	14:26:00	23486	07:26:00	446	-	OUT
		4	18.09.2018	Wednesday	208	180874E2	16:12:00	23592	16:17:00	23597	00:05:00	5	Non-Elective	IN
	19:00	4	18.09.2018	Wednesday	209	180874E3	18:45:00	23745	19:15:00	23775	00:30:00	30	Non-Elective	IN
		4	18.09.2018	Wednesday			18:45:00	23745	19:15:00	23775	00:30:00	30	Non-Elective	IN

General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	190	180871E1	07:00:00	23040	07:58:00	23098	00:58:00	58	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	191	180871E2	13:16:00	23416	13:54:00	23464	00:38:00	38	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	192	180871E3	18:27:00	23727	18:48:00	23748	00:21:00	21	Non-Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	193	180872E1	07:00:00	23069	07:59:00	23131	00:59:00	59	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	194	180872E2	08:31:00	23131	08:38:00	23138	00:07:00	7	Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	195	180872E3	09:14:00	23174	09:19:00	23179	00:05:00	5	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	196	180872E4	10:24:00	23244	11:48:00	23328	01:24:00	84	Elective	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	197	180872E5	11:48:00	23328	11:57:00	23337	00:09:00	9	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	198	180872E6	14:00:00	23460	15:51:00	23571	01:51:00	111	Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	199	180872E7	16:02:00	23571	16:02:00	23582	00:11:00	11	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	200	180873E1	07:00:00	23040	12:55:00	23395	05:55:00	355	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	201	180873E2	13:41:00	23441	14:07:00	23467	00:26:00	26	Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	202	180873E3	14:07:00	23467	14:08:00	23468	00:01:00	1	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	203	180873E4	15:17:00	23537	16:15:00	23595	00:58:00	58	Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	204	180873E5	16:15:00	23595	16:19:00	23599	00:04:00	4	Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	205	180873E6	17:20:00	23659	17:50:00	23690	00:30:00	30	Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	206	180873E7	17:51:00	23690	18:40:00	23740	00:49:00	49	Non-Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	207	180874E1	07:00:00	23040	14:26:00	23486	07:26:00	446	-	OUT
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	208	180874E2	16:12:00	23592	16:17:00	23597	00:05:00	5	Non-Elective	IN
General Surgeon	07:00	13:00	1	18.09.2018	Wednesday	209	180874E3	18:45:00	23745	19:15:00	23775	00:30:00	30	Non-Elective	IN

19-Jul															
Theatre 1															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non- Elective	IN/OUT of USE	
Urology	07:00	Orthopedic	1	19.09.2018	Thursday	210	19087E1	07:00:00	24480	11:47:00	24767	04:47:00	287	OUT	
			1	19.09.2018	Thursday	211	19087E2	14:16:00	24916	15:08:00	24968	0:52:00	52	OUT	
	19:00	Orthopedic	1	19.09.2018	Thursday	211	19087E2	15:08:00	24968	17:36:00	25116	02:28:00	148	IN	
			1	19.09.2018	Thursday	211	19087E2	17:36:00	25116	19:00:00	25200	01:24:00	84	OUT	
Theatre 2															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non- Elective	IN/OUT of USE	
General Surgeon	07:00	General Surgeon	2	19.09.2018	Thursday	212	19087E1	07:00:00	24480	07:51:00	24531	00:51:00	51	OUT	
			2	19.09.2018	Thursday	212	19087E1	07:51:00	24531	08:50:00	24590	00:59:00	59	IN	
		General Surgeon	2	19.09.2018	Thursday	213	19087E2	08:50:00	24590	08:55:00	24595	00:05:00	5	OUT	
			2	19.09.2018	Thursday	213	19087E2	08:55:00	24595	10:31:00	24691	01:36:00	96	IN	
		General Surgeon	2	19.09.2018	Thursday	214	19087E3	10:31:00	24691	10:54:00	24714	00:23:00	23	OUT	
			2	19.09.2018	Thursday	214	19087E3	10:54:00	24714	13:01:00	24841	02:07:00	127	IN	
		General Surgeon	2	19.09.2018	Thursday	215	19087E4	13:01:00	24841	13:15:00	24855	00:14:00	14	OUT	
			2	19.09.2018	Thursday	215	19087E4	13:15:00	24855	13:47:00	24887	00:32:00	32	IN	
		19:00	General Surgeon	2	19.09.2018	Thursday	216	19087E5	13:47:00	24887	13:52:00	24892	00:05:00	5	OUT
				2	19.09.2018	Thursday	216	19087E5	13:52:00	24892	15:42:00	25002	01:50:00	110	IN
Overtime		General Surgeon	2	19.09.2018	Thursday	217	19087E6	15:42:00	25002	15:54:00	25014	00:12:00	12	OUT	
			2	19.09.2018	Thursday	217	19087E6	15:54:00	25014	17:06:00	25086	01:12:00	72	IN	
		General Surgeon	2	19.09.2018	Thursday	218	19087E7	17:06:00	25086	17:11:00	25091	00:05:00	5	OUT	
			2	19.09.2018	Thursday	218	19087E7	17:11:00	25091	18:15:00	25155	01:04:00	64	IN	
		General Surgeon	2	19.09.2018	Thursday	219	19087E8	18:15:00	25155	18:19:00	25159	00:04:00	4	OUT	
			2	19.09.2018	Thursday	219	19087E8	18:19:00	25159	18:58:00	25198	00:39:00	39	IN	
		General Surgeon	2	19.09.2018	Thursday	219	19087E8	18:58:00	25198	19:00:00	25200	00:02:00	2	OUT	
			2	19.09.2018	Thursday	219	19087E8	19:00:00	25200	19:37:00	25237	00:36:00	36	IN	
		19:00	General Surgeon	2	19.09.2018	Thursday	219	19087E8	19:37:00	25237	20:27:00	25287	00:43:00	43	IN
				2	19.09.2018	Thursday	219	19087E8	20:27:00	25287	21:13:00	25337	01:13:00	73	IN
Theatre 3															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non- Elective	IN/OUT of USE	
Orthopedic	07:00	Orthopedic	3	19.09.2018	Thursday	220	19087E1	07:00:00	24480	09:22:00	24622	02:22:00	142	OUT	
			3	19.09.2018	Thursday	220	19087E1	09:22:00	24622	11:56:00	24776	02:34:00	154	IN	
	13:00	Orthopedic	3	19.09.2018	Thursday	221	19087E2	11:56:00	24776	12:07:00	24787	00:11:00	11	OUT	
			3	19.09.2018	Thursday	221	19087E2	12:07:00	24787	14:05:00	24905	01:58:00	118	IN	
Orthopedic	13:00	General Surgeon	3	19.09.2018	Thursday	222	19087E1	14:05:00	24905	14:50:00	24950	00:45:00	45	OUT	
			3	19.09.2018	Thursday	222	19087E1	14:50:00	24950	16:03:00	25023	01:13:00	73	IN	
	19:00	General Surgeon	3	19.09.2018	Thursday	222	19087E1	16:03:00	25023	19:00:00	25200	02:57:00	177	OUT	
			3	19.09.2018	Thursday	222	19087E1	19:00:00	25200	19:00:00	25200	00:00:00	0	OUT	
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non- Elective	IN/OUT of USE	
Orthopedic	07:00	Orthopedic	4	19.09.2018	Thursday	223	19087E1	07:00:00	24480	10:38:00	24698	03:38:00	218	OUT	
			4	19.09.2018	Thursday	223	19087E1	10:38:00	24698	11:23:00	24743	00:45:00	45	IN	
	13:00	Orthopedic	4	19.09.2018	Thursday	224	19087E1	11:23:00	24743	13:00:00	24840	01:37:00	97	OUT	
			4	19.09.2018	Thursday	224	19087E1	13:00:00	24840	13:40:00	24880	00:40:00	40	OUT	
Orthopedic	13:00	Orthopedic	4	19.09.2018	Thursday	224	19087E1	13:40:00	24880	15:40:00	25000	02:00:00	120	IN	
			4	19.09.2018	Thursday	224	19087E1	15:40:00	25000	15:45:00	25005	00:05:00	5	OUT	
	19:00	Orthopedic	4	19.09.2018	Thursday	225	19087E2	15:45:00	25005	16:17:00	25037	00:32:00	32	IN	
			4	19.09.2018	Thursday	225	19087E2	16:17:00	25037	19:00:00	25200	02:43:00	163	OUT	

20-Jul															
Theatre 1															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Ear, Nose and Throat	07:00	General Surgeon	1	20.09.2018	Friday	226	2008TNE1	07:00:00	25920	07:35:00	25955	00:35:00	35	Non-Elective	OUT
		General Surgeon	1	20.09.2018	Friday	227	2008TNE2	08:18:00	25998	08:28:00	26008	00:10:00	10	Non-Elective	OUT
		General Surgeon	1	20.09.2018	Friday	228	2008TNE3	10:29:00	26129	10:42:00	26142	00:13:00	13	Non-Elective	OUT
		General Surgeon	1	20.09.2018	Friday	229	2008TNE4	12:31:00	26251	13:00:00	26280	00:29:00	29	Non-Elective	OUT
	13:00		1					13:00:00	26280	19:00:00	26640	06:00:00	360	-	OUT
Theatre 2															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2	20.09.2018	Friday	229	2008TNE1	07:26:00	25946	08:45:00	26025	01:19:00	79	Elective	OUT
			2					08:45:00	26025	19:00:00	26640	10:15:00	615	-	OUT
Theatre 3															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	13:00	Orthopedic	3	20.09.2018	Friday	230	2008TNE1	07:00:00	25920	11:11:00	26171	04:11:00	251	-	OUT
		Orthopedic	3	20.09.2018	Friday	231	2008TNE2	12:00:00	26200	12:17:00	26237	00:17:00	17	Elective	IN
		Orthopedic	3	20.09.2018	Friday	232	2008TNE3	16:04:00	26464	16:14:00	26474	00:10:00	10	Elective	OUT
	13:00	Orthopedic	3	20.09.2018	Friday	233	2008TNE4	16:14:00	26474	17:22:00	26542	01:08:00	68	Non-Elective	IN
			3					17:22:00	26542	19:00:00	26640	01:38:00	98	-	OUT
Theatre 4															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	20.09.2018	Friday	233	2008TNE1	07:00:00	25920	07:42:00	25962	00:42:00	42	Elective	IN
		Obstetrics and Gynaecology	4	20.09.2018	Friday	234	2008TNE2	07:42:00	25963	07:43:00	25997	00:01:00	1	-	OUT
		Obstetrics and Gynaecology	4	20.09.2018	Friday	235	2008TNE3	08:17:00	25997	08:29:00	26009	00:12:00	12	Elective	IN
		Obstetrics and Gynaecology	4	20.09.2018	Friday	236	2008TNE4	09:18:00	26098	09:18:00	26098	00:00:00	0	Elective	IN
			4					09:18:00	26098	13:00:00	26280	03:42:00	222	-	OUT
			4					13:00:00	26280	13:51:00	26331	00:51:00	51	-	OUT
	13:00	Obstetrics and Gynaecology	4	20.09.2018	Friday	236	2008TNE4	13:51:00	26331	14:30:00	26370	00:39:00	39	Non-Elective	IN
			4					14:30:00	26370	19:00:00	26640	04:30:00	270	-	OUT
In Service															

23-Jul															
Theatre 1															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	1	23.09.2018	Monday	237	2308T1E1	07:00:00	30:20	10:08:00	30:28	03:08:00	188	Elective	IN
		General Surgeon	1	23.09.2018	Monday	238	2308T1E2	10:08:00	30:28	10:13:00	30:43	00:05:00	5	-	OUT
		General Surgeon	1	23.09.2018	Monday	239	2308T1E3	10:13:00	30:43	12:12:00	30:52	01:59:00	119	Elective	IN
		General Surgeon	1	23.09.2018	Monday	239	2308T1E3	12:12:00	30:52	12:26:00	30:56	00:14:00	14	-	OUT
Orthopedic	19:00	General Surgeon	1	23.09.2018	Monday	239	2308T1E3	12:26:00	30:56	13:33:00	30:63	01:07:00	67	Elective	IN
		General Surgeon	1	23.09.2018	Monday	240	2308T1E4	13:33:00	30:63	13:33:00	30:63	00:00:00	0	-	OUT
		Orthopedic	1	23.09.2018	Monday	240	2308T1E4	17:53:00	30:89	17:53:00	30:89	04:20:00	260	Elective	IN
		Orthopedic	1	23.09.2018	Monday	x	2308T1E2	20:04:00	30:89	20:04:00	30:89	02:11:00	131	Non-Elective	IN
Overtime															
Theatre 2															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2	23.09.2018	Monday	241	2308T1E1	07:00:00	30:20	07:49:00	30:28	00:49:00	49	-	OUT
		General Surgeon	2	23.09.2018	Monday	241	2308T1E1	07:49:00	30:28	10:59:00	30:49	03:10:00	190	Elective	IN
		General Surgeon	2	23.09.2018	Monday	242	2308T1E2	10:59:00	30:49	10:59:00	30:49	00:16:00	16	-	OUT
		General Surgeon	2	23.09.2018	Monday	242	2308T1E2	11:15:00	30:49	13:24:00	30:64	02:09:00	129	Elective	IN
		General Surgeon	2	23.09.2018	Monday	243	2308T1E3	13:24:00	30:64	13:31:00	30:63	00:07:00	7	-	OUT
		General Surgeon	2	23.09.2018	Monday	243	2308T1E3	13:31:00	30:63	14:03:00	30:63	00:32:00	32	Elective	IN
Orthopedic	19:00	General Surgeon	2	23.09.2018	Monday	244	2308T1E4	14:03:00	30:63	14:07:00	30:67	00:04:00	4	-	OUT
		General Surgeon	2	23.09.2018	Monday	244	2308T1E4	14:07:00	30:67	17:41:00	30:81	03:34:00	214	Elective	IN
		General Surgeon	2	23.09.2018	Monday	245	2308T1E5	17:41:00	30:81	17:49:00	30:89	00:08:00	8	-	OUT
		General Surgeon	2	23.09.2018	Monday	245	2308T1E5	17:49:00	30:89	19:58:00	31:08	02:09:00	129	Elective	IN
		General Surgeon	2	23.09.2018	Monday	x	2308T1E3	20:08:00	31:08	20:53:00	31:07	00:45:00	45	Non-Elective	IN
		General Surgeon	2	23.09.2018	Monday	x	2308T1E2	21:04:00	31:04	21:59:00	31:19	00:55:00	55	Non-Elective	IN
Overtime															
Theatre 3															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	23.09.2018	Monday	246	2308T3E1	07:00:00	30:20	08:26:00	30:26	01:26:00	86	-	OUT
		Orthopedic	3	23.09.2018	Monday	246	2308T3E1	08:26:00	30:26	10:34:00	30:54	02:08:00	128	Elective	IN
		Orthopedic	3	23.09.2018	Monday	247	2308T3E2	10:34:00	30:54	11:12:00	30:49	00:38:00	38	-	OUT
		Orthopedic	3	23.09.2018	Monday	247	2308T3E2	11:12:00	30:49	13:12:00	30:62	02:00:00	120	Elective	IN
		Orthopedic	3	23.09.2018	Monday	248	2308T3E3	13:12:00	30:62	13:21:00	30:61	00:09:00	9	-	OUT
		Orthopedic	3	23.09.2018	Monday	248	2308T3E3	13:21:00	30:61	15:24:00	30:74	02:03:00	123	Elective	IN
Orthopedic	19:00	Orthopedic	3	23.09.2018	Monday	248	2308T3E3	15:24:00	30:74	15:33:00	30:73	00:09:00	9	-	OUT
		Orthopedic	3	23.09.2018	Monday	249	2308T3E4	15:33:00	30:73	17:28:00	30:88	01:55:00	115	Elective	IN
		Orthopedic	3	23.09.2018	Monday	249	2308T3E4	17:28:00	30:88	17:41:00	30:81	00:13:00	13	-	OUT
		Orthopedic	3	23.09.2018	Monday	250	2308T3E5	17:41:00	30:81	18:03:00	30:93	00:22:00	22	Elective	IN
		Orthopedic	3	23.09.2018	Monday	250	2308T3E5	18:03:00	30:93	18:12:00	30:92	00:09:00	9	-	OUT
		Orthopedic	3	23.09.2018	Monday	251	2308T3E6	18:12:00	30:92	19:27:00	30:97	01:15:00	75	Elective	IN
Overtime															
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	4	23.09.2018	Monday	252	2308T4E1	07:00:00	30:20	07:08:00	30:28	00:08:00	8	-	OUT
		Orthopedic	4	23.09.2018	Monday	252	2308T4E1	07:08:00	30:28	09:30:00	30:30	02:22:00	142	Elective	IN
		Orthopedic	4	23.09.2018	Monday	253	2308T4E2	09:30:00	30:30	10:13:00	30:43	00:43:00	43	-	OUT
		Orthopedic	4	23.09.2018	Monday	253	2308T4E2	10:13:00	30:43	11:00:00	30:80	00:47:00	47	Elective	IN
Obstetrics and Gynaecology	13:00	Orthopedic	4	23.09.2018	Monday	253	2308T4E2	11:00:00	30:40	13:00:00	30:60	02:00:00	120	-	OUT
		Obstetrics and Gynaecology	4	23.09.2018	Monday	254	2308T4E3	13:00:00	30:60	13:57:00	30:57	00:57:00	57	-	OUT
		Obstetrics and Gynaecology	4	23.09.2018	Monday	254	2308T4E3	13:57:00	30:57	14:32:00	30:52	00:35:00	35	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	255	2308T4E4	14:32:00	30:52	15:01:00	30:71	00:29:00	29	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	256	2308T4E5	15:01:00	30:71	15:32:00	30:72	00:31:00	31	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	257	2308T4E6	15:32:00	30:72	16:04:00	30:74	00:32:00	32	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	258	2308T4E7	16:04:00	30:74	16:25:00	30:85	00:21:00	21	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	259	2308T4E8	16:25:00	30:85	16:46:00	30:86	00:21:00	21	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	260	2308T4E9	16:46:00	30:86	17:10:00	30:89	00:24:00	24	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	261	2308T4E10	17:10:00	30:89	17:48:00	30:88	00:38:00	38	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	262	2308T4E11	17:48:00	30:88	18:37:00	30:97	00:49:00	49	Elective	IN
		Obstetrics and Gynaecology	4	23.09.2018	Monday	262	2308T4E11	18:37:00	30:97	19:00:00	30:96	00:23:00	23	-	OUT
Overtime															
Orthopedic	19:00	General Surgeon	4	23.09.2018	Monday	x	2308T4E1	19:20:00	30:80	20:23:00	31:03	01:03:00	63	Non-Elective	IN
		General Surgeon	4	23.09.2018	Monday	x	2308T4E2	20:27:00	31:07	21:39:00	31:19	01:12:00	72	Non-Elective	IN

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Theatre 1															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	1	24.09.2018	Tuesday	263	24081T1E1	07:00:00	31680	08:46:00	31786	01:46:00	106	Elective	IN
		Orthopedic	1	24.09.2018	Tuesday	264	24081T1E2	08:46:00	31786	08:49:00	31789	00:03:00	3	-	OUT
		Orthopedic	1	24.09.2018	Tuesday	265	24081T1E3	10:34:00	31884	10:43:00	31903	00:09:00	9	-	OUT
		Orthopedic	1	24.09.2018	Tuesday	265	24081T1E3	10:43:00	31903	11:56:00	31976	01:13:00	73	Elective	IN
		Orthopedic	1	24.09.2018	Tuesday	266	24081T1E4	11:56:00	31976	11:57:00	31977	00:01:00	1	-	OUT
Orthopedic	16:00	Orthopedic	1	24.09.2018	Tuesday	266	24081T1E4	11:57:00	31977	12:52:00	32032	00:55:00	55	Elective	IN
		Orthopedic	1	24.09.2018	Tuesday	266	24081T1E4	12:52:00	32032	16:00:00	32220	03:08:00	188	-	OUT
		Orthopedic	1	24.09.2018	Tuesday	266	24081T1E4	16:00:00	32220	19:00:00	32400	03:00:00	180	-	OUT
Theatre 2															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2	24.09.2018	Tuesday	267	24081T2E1	07:00:00	31680	07:58:00	31738	00:58:00	58	-	OUT
		General Surgeon	2	24.09.2018	Tuesday	267	24081T2E1	07:58:00	31738	09:38:00	31838	01:40:00	100	Elective	IN
		General Surgeon	2	24.09.2018	Tuesday	268	24081T2E2	09:38:00	31838	09:47:00	31847	00:09:00	9	-	OUT
		General Surgeon	2	24.09.2018	Tuesday	268	24081T2E2	09:47:00	31847	11:06:00	31926	01:19:00	79	Elective	IN
		General Surgeon	2	24.09.2018	Tuesday	269	24081T2E3	11:06:00	31926	11:14:00	31934	00:08:00	8	-	OUT
General Surgeon	19:00	General Surgeon	2	24.09.2018	Tuesday	269	24081T2E3	11:14:00	31934	11:57:00	31977	00:43:00	43	Elective	IN
		General Surgeon	2	24.09.2018	Tuesday	270	24081T2E4	11:57:00	31977	12:02:00	31982	00:05:00	5	-	OUT
		General Surgeon	2	24.09.2018	Tuesday	270	24081T2E4	12:02:00	31982	12:27:00	32007	00:25:00	25	Elective	IN
General Surgeon	07:00	General Surgeon	2	24.09.2018	Tuesday	271	24081T2E1	12:27:00	32007	17:05:00	32285	04:38:00	278	-	OUT
		General Surgeon	2	24.09.2018	Tuesday	271	24081T2E1	17:05:00	32285	17:58:00	32338	00:53:00	53	Non-Elective	IN
		General Surgeon	2	24.09.2018	Tuesday	272	24081T2E2	18:15:00	32355	19:13:00	32413	00:58:00	58	Non-Elective	IN
General Surgeon	Overtime	General Surgeon	2	24.09.2018	Tuesday	x	24081T2E3	19:25:00	32425	20:38:00	32498	01:13:00	73	Non-Elective	IN
		General Surgeon	2	24.09.2018	Tuesday	x	24081T2E3	19:25:00	32425	20:38:00	32498	01:13:00	73	Non-Elective	IN
Theatre 3															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	24.09.2018	Tuesday	273	24081T3E1	07:00:00	31680	07:37:00	31717	00:37:00	37	Elective	IN
		Orthopedic	3	24.09.2018	Tuesday	274	24081T3E1	07:42:00	31717	07:42:00	31722	00:05:00	5	-	OUT
		Orthopedic	3	24.09.2018	Tuesday	275	24081T3E2	08:57:00	31797	09:00:00	31800	00:03:00	3	-	OUT
		Orthopedic	3	24.09.2018	Tuesday	276	24081T3E3	09:43:00	31843	09:50:00	31850	00:07:00	7	-	OUT
		Orthopedic	3	24.09.2018	Tuesday	276	24081T3E3	09:50:00	31850	11:03:00	31923	01:13:00	73	Elective	IN
Orthopedic	19:00	Orthopedic	3	24.09.2018	Tuesday	277	24081T3E3	11:08:00	31923	11:13:00	31933	00:10:00	10	-	OUT
		Orthopedic	3	24.09.2018	Tuesday	278	24081T3E4	11:13:00	31933	12:37:00	32017	01:24:00	84	Elective	IN
		Orthopedic	3	24.09.2018	Tuesday	278	24081T3E4	12:37:00	32017	19:00:00	32400	06:23:00	383	-	OUT
Theatre 4															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	24.09.2018	Tuesday	279	24081T4E1	07:00:00	31680	07:12:00	31692	00:12:00	12	-	OUT
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	279	24081T4E1	07:12:00	31692	08:03:00	31743	00:51:00	51	Elective	IN
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	280	24081T4E2	08:03:00	31743	08:05:00	31745	00:02:00	2	-	OUT
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	280	24081T4E2	08:05:00	31745	10:16:00	31876	02:11:00	131	Elective	IN
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	281	24081T4E3	10:16:00	31876	10:17:00	31877	00:01:00	1	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology	4	24.09.2018	Tuesday	281	24081T4E3	10:17:00	31877	10:56:00	31916	00:39:00	39	Elective	IN
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	282	24081T4E4	10:56:00	31916	10:58:00	31918	00:02:00	2	-	OUT
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	282	24081T4E4	10:58:00	31918	11:39:00	31959	00:41:00	41	Elective	IN
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	24.09.2018	Tuesday	283	24081T4E5	11:39:00	31959	11:42:00	31962	00:03:00	3	-	OUT
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	283	24081T4E5	11:42:00	31962	12:29:00	32009	00:47:00	47	Elective	IN
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	284	24081T4E6	12:29:00	32009	12:34:00	32014	00:05:00	5	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology	4	24.09.2018	Tuesday	284	24081T4E6	12:34:00	32014	12:55:00	32035	00:21:00	21	Elective	IN
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	284	24081T4E6	12:55:00	32035	13:00:00	32040	00:05:00	5	-	OUT
		Obstetrics and Gynaecology	4	24.09.2018	Tuesday	284	24081T4E6	13:00:00	32040	19:00:00	32400	06:00:00	360	-	OUT
Urology	19:00	Urology	4	24.09.2018	Tuesday	284	24081T4E6	19:00:00	32400						
		Urology	4	24.09.2018	Tuesday	284	24081T4E6								
		Urology	4	24.09.2018	Tuesday	284	24081T4E6								

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26-Jul														
Theatre 1														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
Urology	0700	Urology	1	26.09.2018	Thursday	300	2608T1E1	07:00:00	34560	08:51:00	34671	01:51:00	-	OUT
		Urology	1	26.09.2018	Thursday	300	2608T1E1	08:51:00	34671	09:21:00	34701	00:30:00	Elective	IN
		Urology	1	26.09.2018	Thursday	301	2608T1E2	09:21:00	34701	09:29:00	34709	00:08:00	-	OUT
		Urology	1	26.09.2018	Thursday	301	2608T1E2	09:29:00	34709	09:50:00	34730	00:21:00	Elective	IN
		Urology	1	26.09.2018	Thursday	302	2608T1E3	09:50:00	34730	10:08:00	34748	00:18:00	-	OUT
		Urology	1	26.09.2018	Thursday	302	2608T1E3	10:08:00	34748	10:25:00	34765	00:17:00	Elective	IN
		Urology	1	26.09.2018	Thursday	303	2608T1E4	10:25:00	34765	10:33:00	34773	00:08:00	-	OUT
		Urology	1	26.09.2018	Thursday	303	2608T1E4	10:33:00	34773	12:25:00	34885	01:52:00	Elective	IN
		Urology	1	26.09.2018	Thursday	304	2608T1E1	12:25:00	34885	12:41:00	34901	00:16:00	-	OUT
		Urology	1	26.09.2018	Thursday	304	2608T1E1	12:41:00	34901	13:34:00	34954	00:53:00	Non-Elective	IN
Orthopaedic	0700	Orthopaedic	1	26.09.2018	Thursday	305	2608T1E2	15:08:00	35048	15:43:00	35083	00:35:00	Non-Elective	OUT
		Orthopaedic	1	26.09.2018	Thursday	305	2608T1E2	15:43:00	35083	19:00:00	35280	03:17:00	-	OUT
		Orthopaedic	1	26.09.2018	Thursday	305	2608T1E2	19:00:00	35280	03:17:00	35280	00:00:00	-	OUT
Theatre 2														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
General Surgeon	0700	General Surgeon	2	26.09.2018	Thursday	306	2608T2E1	07:00:00	34560	07:39:00	34599	00:39:00	-	OUT
		General Surgeon	2	26.09.2018	Thursday	306	2608T2E1	07:39:00	34599	10:16:00	34756	02:37:00	Elective	IN
		General Surgeon	2	26.09.2018	Thursday	307	2608T2E2	10:16:00	34756	10:24:00	34764	00:08:00	-	OUT
		General Surgeon	2	26.09.2018	Thursday	307	2608T2E2	10:24:00	34764	12:49:00	34909	02:25:00	Elective	IN
		General Surgeon	2	26.09.2018	Thursday	308	2608T2E3	12:49:00	34909	12:54:00	34914	00:05:00	-	OUT
		General Surgeon	2	26.09.2018	Thursday	308	2608T2E3	12:54:00	34914	13:39:00	34959	00:45:00	Elective	IN
		General Surgeon	2	26.09.2018	Thursday	309	2608T2E4	13:39:00	34959	13:46:00	34966	00:07:00	-	OUT
		General Surgeon	2	26.09.2018	Thursday	309	2608T2E4	13:46:00	34966	14:11:00	34991	00:25:00	Elective	IN
		General Surgeon	2	26.09.2018	Thursday	310	2608T2E5	14:11:00	34991	14:20:00	35000	00:09:00	-	OUT
		General Surgeon	2	26.09.2018	Thursday	310	2608T2E5	14:20:00	35000	15:21:00	35061	01:01:00	Elective	IN
General Surgeon	0700	General Surgeon	2	26.09.2018	Thursday	311	2608T2E6	15:21:00	35061	15:47:00	35087	00:26:00	-	OUT
		General Surgeon	2	26.09.2018	Thursday	311	2608T2E6	15:47:00	35087	16:33:00	35133	00:46:00	Elective	IN
		General Surgeon	2	26.09.2018	Thursday	311	2608T2E6	16:33:00	35133	19:00:00	35280	02:27:00	-	OUT
Theatre 3														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	1300	Orthopaedic	3	26.09.2018	Thursday	312	2608T3E1	07:00:00	34560	10:05:00	34745	03:05:00	Elective	IN
		Orthopaedic	3	26.09.2018	Thursday	312	2608T3E1	10:05:00	34745	10:16:00	34756	00:11:00	-	OUT
		Orthopaedic	3	26.09.2018	Thursday	313	2608T3E2	10:16:00	34756	10:24:00	34782	00:26:00	Elective	IN
		Orthopaedic	3	26.09.2018	Thursday	313	2608T3E2	10:24:00	34782	10:47:00	34787	00:05:00	-	OUT
		Orthopaedic	3	26.09.2018	Thursday	314	2608T3E3	10:47:00	34787	13:35:00	34955	02:48:00	Elective	IN
		Orthopaedic	3	26.09.2018	Thursday	314	2608T3E3	13:35:00	34955	14:29:00	35009	00:54:00	-	OUT
		Orthopaedic	3	26.09.2018	Thursday	315	2608T3E4	14:29:00	35009	15:11:00	35051	00:42:00	Elective	IN
		Orthopaedic	3	26.09.2018	Thursday	315	2608T3E4	15:11:00	35051	15:24:00	35064	00:13:00	-	OUT
		Orthopaedic	3	26.09.2018	Thursday	316	2608T3E5	15:24:00	35064	17:11:00	35171	01:47:00	Elective	IN
		Orthopaedic	3	26.09.2018	Thursday	317	2608T3E6	17:23:00	35183	18:12:00	35232	00:49:00	-	OUT
Theatre 4														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	1300	Teeth	4	26.09.2018	Thursday	318	2608T4E1	07:00:00	34560	07:25:00	34585	00:25:00	-	OUT
		Teeth	4	26.09.2018	Thursday	318	2608T4E1	07:25:00	34585	08:39:00	34659	01:14:00	Non-Elective	IN
		Teeth	4	26.09.2018	Thursday	319	2608T4E2	08:39:00	34659	08:46:00	34666	00:07:00	-	OUT
		Teeth	4	26.09.2018	Thursday	319	2608T4E2	08:46:00	34666	09:33:00	34713	00:47:00	Non-Elective	IN
		Orthopaedic	4	26.09.2018	Thursday	320	2608T4E3	09:33:00	34713	13:00:00	34920	03:27:00	-	OUT
		Orthopaedic	4	26.09.2018	Thursday	320	2608T4E3	13:00:00	34920	15:01:00	35041	02:01:00	Elective	IN
		Orthopaedic	4	26.09.2018	Thursday	321	2608T4E2	15:05:00	35045	16:33:00	35133	01:28:00	-	OUT
		Orthopaedic	4	26.09.2018	Thursday	321	2608T4E2	16:33:00	35133	17:02:00	35162	00:29:00	Elective	IN
		Orthopaedic	4	26.09.2018	Thursday	322	2608T4E3	17:02:00	35162	17:59:00	35219	00:57:00	-	OUT
		Orthopaedic	4	26.09.2018	Thursday	322	2608T4E3	17:59:00	35219	19:00:00	35280	01:01:00	-	OUT
Theatre 5														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	1300	Orthopaedic	5	26.09.2018	Thursday	323	2608T5E1	07:00:00	34560	07:25:00	34585	00:25:00	-	OUT
		Orthopaedic	5	26.09.2018	Thursday	323	2608T5E1	07:25:00	34585	08:39:00	34659	01:14:00	Non-Elective	IN
		Orthopaedic	5	26.09.2018	Thursday	324	2608T5E2	08:39:00	34659	08:46:00	34666	00:07:00	-	OUT
		Orthopaedic	5	26.09.2018	Thursday	324	2608T5E2	08:46:00	34666	09:33:00	34713	00:47:00	Non-Elective	IN
		Orthopaedic	5	26.09.2018	Thursday	325	2608T5E3	09:33:00	34713	13:00:00	34920	03:27:00	-	OUT
		Orthopaedic	5	26.09.2018	Thursday	325	2608T5E3	13:00:00	34920	15:01:00	35041	02:01:00	Elective	IN
		Orthopaedic	5	26.09.2018	Thursday	326	2608T5E4	15:05:00	35045	16:33:00	35133	01:28:00	-	OUT
		Orthopaedic	5	26.09.2018	Thursday	326	2608T5E4	16:33:00	35133	17:02:00	35162	00:29:00	Elective	IN
		Orthopaedic	5	26.09.2018	Thursday	327	2608T5E5	17:02:00	35162	17:59:00	35219	00:57:00	-	OUT
		Orthopaedic	5	26.09.2018	Thursday	327	2608T5E5	17:59:00	35219	19:00:00	35280	01:01:00	-	OUT
Theatre 6														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	1300	Orthopaedic	6	26.09.2018	Thursday	328	2608T6E1	07:00:00	34560	07:25:00	34585	00:25:00	-	OUT
		Orthopaedic	6	26.09.2018	Thursday	328	2608T6E1	07:25:00	34585	08:39:00	34659	01:14:00	Non-Elective	IN
		Orthopaedic	6	26.09.2018	Thursday	329	2608T6E2	08:39:00	34659	08:46:00	34666	00:07:00	-	OUT
		Orthopaedic	6	26.09.2018	Thursday	329	2608T6E2	08:46:00	34666	09:33:00	34713	00:47:00	Non-Elective	IN
		Orthopaedic	6	26.09.2018	Thursday	330	2608T6E3	09:33:00	34713	13:00:00	34920	03:27:00	-	OUT
		Orthopaedic	6	26.09.2018	Thursday	330	2608T6E3	13:00:00	34920	15:01:00	35041	02:01:00	Elective	IN
		Orthopaedic	6	26.09.2018	Thursday	331	2608T6E4	15:05:00	35045	16:33:00	35133	01:28:00	-	OUT
		Orthopaedic	6	26.09.2018	Thursday	331	2608T6E4	16:33:00	35133	17:02:00	35162	00:29:00	Elective	IN
		Orthopaedic	6	26.09.2018	Thursday	332	2608T6E5	17:02:00	35162	17:59:00	35219	00:57:00	-	OUT
		Orthopaedic	6	26.09.2018	Thursday	332	2608T6E5	17:59:00	35219	19:00:00	35280	01:01:00	-	OUT
Theatre 7														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	1300	Orthopaedic	7	26.09.2018	Thursday	333	2608T7E1	07:00:00	34560	07:25:00	34585	00:25:00	-	OUT
		Orthopaedic	7	26.09.2018	Thursday	333	2608T7E1	07:25:00	34585	08:39:00	34659	01:14:00	Non-Elective	IN
		Orthopaedic	7	26.09.2018	Thursday	334	2608T7E2	08:39:00	34659	08:46:00	34666	00:07:00	-	OUT
		Orthopaedic	7	26.09.2018	Thursday	334	2608T7E2	08:46:00	34666	09:33:00	34713	00:47:00	Non-Elective	IN
		Orthopaedic	7	26.09.2018	Thursday	335	2608T7E3	09:33:00	34713	13:00:00	34920	03:27:00	-	OUT
		Orthopaedic	7	26.09.2018	Thursday	335	2608T7E3	13:00:00	34920	15:01:00	35041	02:01:00	Elective	IN
		Orthopaedic	7	26.09.2018	Thursday	336	2608T7E4	15:05:00	35045	16:33:00	35133	01:28:00	-	OUT
		Orthopaedic	7	26.09.2018	Thursday	336	2608T7E4	16:33:00	35133	17:02:00	35162	00:29:00	Elective	IN
		Orthopaedic	7	26.09.2018	Thursday	337	2608T7E5	17:02:00	35162	17:59:00	35219	00:57:00	-	OUT
		Orthopaedic	7	26.09.2018	Thursday	337	2608T7E5	17:59:00	35219	19:00:00	35280	01:01:00	-	OUT
Theatre 8														
Physician Specialities	Block	Physician Specialities	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	1300	Orthopaedic	8	26.09.2018	Thursday	338	2608T8E1	07:00:00	34560	07:25:00	34585	00:25:00	-	OUT
		Orthopaedic	8	26.09.2018	Thursday	338	2608T8E1	07:25:00	34585	08:39:00	34659	01:14:00	Non-Elective	IN
		Orthopaedic	8	26.09.2018	Thursday	339	2608T8E2	08:39:00	34659	08:46:00	34666	00:07:00	-	OUT
		Orthopaedic	8	26.09.2018	Thursday	339	2608T8E2	08:0						

27-Jul															
Theatre 1															
Physician Specialities	Block	Physician Specialities	Theatre	Date	of the W.	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Ear, Nose and Throat	07:00	Ear, Nose and Throat	1	27.09.2018	Friday	323	2708T1E1	07:00:00	36000	07:22:00	36022	00:22:00	22	-	OUT
			1	27.09.2018	Friday	323	2708T1E1	07:22:00	36022	08:09:00	36069	00:47:00	47	Elective	IN
			1	27.09.2018	Friday	324	2708T1E2	08:09:00	36069	08:15:00	36075	00:06:00	6	-	OUT
			1	27.09.2018	Friday	324	2708T1E2	08:15:00	36075	08:47:00	36107	00:32:00	32	Elective	IN
			1	27.09.2018	Friday	325	2708T1E3	08:47:00	36107	10:48:00	36228	02:01:00	121	-	OUT
General Surgeon	13:00	General Surgeon	1	27.09.2018	Friday	325	2708T1E3	10:48:00	36228	11:30:00	36270	00:42:00	42	Non-Elective	IN
			1	27.09.2018	Friday	326	2708T1E2	11:30:00	36270	12:17:00	36317	00:47:00	47	-	OUT
			1	27.09.2018	Friday	326	2708T1E2	12:17:00	36317	13:50:00	36410	01:33:00	93	Non-Elective	IN
			1	27.09.2018	Friday	326	2708T1E2	13:50:00	36410	19:00:00	36720	05:10:00	310	-	OUT

30-Jul															
Theatre 1															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	1	30.09.2018	Monday	338	3008T1NE1	07:00:00	40:320	07:08:00	40:328	00:08:00	8	-	OUT
		General Surgeon	1	30.09.2018	Monday	338	3008T1NE1	07:08:00	40:328	08:48:00	40:428	01:40:00	100	Non-Elective	IN
		General Surgeon	1	30.09.2018	Monday	339	3008T1E1	08:48:00	40:428	08:55:00	40:435	00:07:00	7	-	OUT
		General Surgeon	1	30.09.2018	Monday	339	3008T1E1	08:55:00	40:435	09:26:00	40:466	00:31:00	31	Elective	IN
		General Surgeon	1	30.09.2018	Monday	340	3008T1E2	09:26:00	40:466	09:31:00	40:471	00:05:00	5	-	OUT
		General Surgeon	1	30.09.2018	Monday	340	3008T1E2	09:31:00	40:471	10:17:00	40:517	00:46:00	46	Elective	IN
		General Surgeon	1	30.09.2018	Monday	341	3008T1E3	10:17:00	40:517	10:32:00	40:532	00:15:00	15	-	OUT
		General Surgeon	1	30.09.2018	Monday	341	3008T1E3	10:32:00	40:532	11:32:00	40:592	01:00:00	60	Elective	IN
		General Surgeon	1	30.09.2018	Monday	342	3008T1E4	11:32:00	40:592	11:45:00	40:605	00:13:00	13	-	OUT
		General Surgeon	1	30.09.2018	Monday	342	3008T1E4	11:45:00	40:605	12:38:00	40:658	00:53:00	53	Elective	IN
General Surgeon	1	30.09.2018	Monday	343	3008T1NE2	12:38:00	40:658	12:47:00	40:667	00:09:00	9	-	OUT		
General Surgeon	1	30.09.2018	Monday	343	3008T1NE2	12:47:00	40:667	13:25:00	40:705	00:38:00	38	Non-Elective	IN		
General Surgeon	1	30.09.2018	Monday	343	3008T1NE2	13:25:00	40:705	19:00:00	41:040	05:35:00	335	-	OUT		
Theatre 2															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	2	30.09.2018	Monday	344	3008T2NE2	07:00:00	40:320	07:19:00	40:339	00:19:00	19	-	OUT
		Obstetrics and Gynaecology	2	30.09.2018	Monday	344	3008T2NE2	07:19:00	40:339	07:43:00	40:363	00:24:00	24	Non-Elective	IN
		General Surgeon	2	30.09.2018	Monday	345	3008T2E1	07:43:00	40:363	07:55:00	40:375	00:12:00	12	-	OUT
		General Surgeon	2	30.09.2018	Monday	345	3008T2E1	07:55:00	40:375	09:22:00	40:462	01:27:00	87	Elective	IN
		General Surgeon	2	30.09.2018	Monday	346	3008T2E2	09:22:00	40:462	09:24:00	40:464	00:02:00	2	-	OUT
		General Surgeon	2	30.09.2018	Monday	346	3008T2E2	09:24:00	40:464	10:03:00	40:503	00:39:00	39	Elective	IN
		General Surgeon	2	30.09.2018	Monday	347	3008T2E3	10:03:00	40:503	10:10:00	40:510	00:07:00	7	-	OUT
		General Surgeon	2	30.09.2018	Monday	347	3008T2E3	10:10:00	40:510	12:02:00	40:622	01:52:00	112	Elective	IN
		General Surgeon	2	30.09.2018	Monday	348	3008T2E4	12:02:00	40:622	12:08:00	40:628	00:06:00	6	-	OUT
		General Surgeon	2	30.09.2018	Monday	348	3008T2E4	12:08:00	40:628	13:08:00	40:688	01:00:00	60	Elective	IN
General Surgeon	2	30.09.2018	Monday	348	3008T2E4	13:08:00	40:688	19:00:00	41:040	05:52:00	352	-	OUT		
Theatre 3															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	30.09.2018	Monday	349	3008T3E1	07:00:00	40:320	07:35:00	40:355	00:35:00	35	-	OUT
		Orthopedic	3	30.09.2018	Monday	349	3008T3E1	07:35:00	40:355	09:17:00	40:457	01:42:00	102	Elective	IN
		Orthopedic	3	30.09.2018	Monday	350	3008T3E2	09:17:00	40:457	09:43:00	40:483	00:26:00	26	-	OUT
		Orthopedic	3	30.09.2018	Monday	350	3008T3E2	09:43:00	40:483	10:53:00	40:553	01:10:00	70	Elective	IN
		Orthopedic	3	30.09.2018	Monday	351	3008T3E3	10:53:00	40:553	11:18:00	40:578	00:25:00	25	-	OUT
		Orthopedic	3	30.09.2018	Monday	351	3008T3E3	11:18:00	40:578	11:27:00	40:587	00:09:00	9	Elective	IN
		Orthopedic	3	30.09.2018	Monday	352	3008T3NE1	11:27:00	40:587	17:53:00	40:773	06:26:00	386	-	OUT
		Orthopedic	3	30.09.2018	Monday	352	3008T3NE1	17:53:00	40:773	20:06:00	41:06	02:13:00	133	Non-Elective	IN
		Orthopedic	3	30.09.2018	Monday	352	3008T3NE2	20:06:00	41:06	21:28:00	41:18	01:22:00	73	Non-Elective	IN
		Orthopedic	3	30.09.2018	Monday	352	3008T3NE3	21:28:00	41:18	22:43:00	41:26	01:15:00	64	Non-Elective	IN
Orthopedic	3	30.09.2018	Monday	352	3008T3NE4	22:46:00	41:26	23:59:00	41:39	01:13:00	73	Non-Elective	IN		
Overtime															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	30.09.2018	Monday	353	3008T4E1	07:00:00	40:320	09:02:00	40:442	02:02:00	122	-	OUT
		Obstetrics and Gynaecology	4	30.09.2018	Monday	353	3008T4E1	09:02:00	40:442	09:46:00	40:486	00:44:00	44	Elective	IN
		Obstetrics and Gynaecology	4	30.09.2018	Monday	354	3008T4E2	10:55:00	40:555	11:15:00	40:575	00:20:00	20	-	OUT
		Obstetrics and Gynaecology	4	30.09.2018	Monday	354	3008T4E2	11:15:00	40:575	13:00:00	40:680	01:45:00	105	-	OUT
		Obstetrics and Gynaecology	4	30.09.2018	Monday	355	3008T4E3	13:00:00	40:680	13:29:00	40:709	00:29:00	29	-	OUT
		Obstetrics and Gynaecology	4	30.09.2018	Monday	355	3008T4E3	13:29:00	40:709	14:13:00	40:753	00:44:00	44	Elective	IN
		Obstetrics and Gynaecology	4	30.09.2018	Monday	356	3008T4E4	14:13:00	40:753	14:46:00	40:786	00:33:00	33	Elective	IN
		Obstetrics and Gynaecology	4	30.09.2018	Monday	357	3008T4E5	14:46:00	40:786	15:22:00	40:822	00:36:00	36	Elective	IN
		Obstetrics and Gynaecology	4	30.09.2018	Monday	358	3008T4E6	15:22:00	40:822	15:55:00	40:855	00:33:00	33	Elective	IN
		Obstetrics and Gynaecology	4	30.09.2018	Monday	359	3008T4E7	15:55:00	40:855	16:15:00	40:875	00:20:00	20	Elective	IN
Obstetrics and Gynaecology	4	30.09.2018	Monday	359	3008T4E7	16:15:00	40:875	16:18:00	40:878	00:03:00	3	-	OUT		
Obstetrics and Gynaecology	4	30.09.2018	Monday	360	3008T4E8	16:18:00	40:878	17:07:00	40:927	00:49:00	49	Elective	IN		
Obstetrics and Gynaecology	4	30.09.2018	Monday	360	3008T4E8	17:07:00	40:927	17:41:00	40:961	00:34:00	34	-	OUT		
Obstetrics and Gynaecology	4	30.09.2018	Monday	361	3008T4NE1	17:41:00	40:961	18:03:00	40:985	00:22:00	22	Non-Elective	IN		
Obstetrics and Gynaecology	4	30.09.2018	Monday	361	3008T4NE1	18:03:00	40:985	19:00:00	41:040	00:57:00	57	-	OUT		

In Service	05:28:00
Out of Service	06:32:00
Overtime	00:00:00
Utilization	45.56%

In Service	05:22:00
Out of Service	06:38:00
Overtime	00:00:00
Utilization	44.72%

In Service	08:44:00
Out of Service	07:52:00
Overtime	04:36:00
Utilization	34.44%

In Service	05:01:00
Out of Service	06:59:00
Overtime	00:00:00
Utilization	41.81%

31-Jul															
Theatre 1															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	1	31.09.2018	Tuesday	362	3108T1E1	07:00:00	41:760	08:58:00	41:874	01:58:00	118	Elective	IN
			1					08:58:00	41:878	09:07:00	41:887	00:09:00	9	-	OUT
		Orthopedic	1	31.09.2018	Tuesday	363	3108T1E2	09:07:00	41:887	10:28:00	41:968	01:21:00	81	Elective	IN
			1					10:28:00	41:968	10:36:00	41:976	00:08:00	8	-	OUT
		Orthopedic	1	31.09.2018	Tuesday	364	3108T1E3	10:36:00	41:976	12:09:00	42:069	01:33:00	93	Elective	IN
Orthopedic	16:00	Orthopedic	1	31.09.2018	Tuesday	365	3108T1E4	12:09:00	42:069	12:48:00	42:078	00:39:00	9	-	OUT
			1					12:48:00	42:078	13:17:00	42:137	00:59:00	59	Elective	IN
			1					13:17:00	42:137	16:00:00	42:300	02:43:00	163	-	OUT
			1					16:00:00	42:300	19:00:00	42:480	03:00:00	180	-	OUT
Theatre 2															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2	31.09.2018	Tuesday	366	3108T2E1	07:00:00	41:760	07:48:00	41:808	00:48:00	48	-	OUT
			2					07:48:00	41:808	08:39:00	41:859	00:51:00	51	Elective	IN
			2					08:39:00	41:859	12:05:00	42:065	03:26:00	206	-	OUT
		General Surgeon	2	31.09.2018	Tuesday	367	3108T2E2	12:05:00	42:065	14:36:00	42:216	02:31:00	151	Non-Elective	IN
			2					14:36:00	42:216	17:18:00	42:378	02:42:00	162	-	OUT
General Surgeon	19:00	General Surgeon	2	31.09.2018	Tuesday	368	3108T2E3	17:18:00	42:378	18:22:00	42:442	01:04:00	64	Non-Elective	IN
			2					18:22:00	42:442	19:00:00	42:480	00:38:00	38	-	OUT
Theatre 3															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3	31.09.2018	Tuesday	369	3108T3E1	07:00:00	41:760	08:13:00	41:833	01:13:00	73	Elective	IN
			3					08:13:00	41:833	08:19:00	41:839	00:06:00	6	-	OUT
		Orthopedic	3	31.09.2018	Tuesday	370	3108T3E2	08:19:00	41:839	09:19:00	41:899	01:00:00	60	Elective	IN
			3					09:19:00	41:899	09:45:00	41:925	00:26:00	26	-	OUT
		Orthopedic	3	31.09.2018	Tuesday	371	3108T3E3	09:45:00	41:925	10:59:00	41:999	01:14:00	74	Elective	IN
Orthopedic	19:00	Orthopedic	3	31.09.2018	Tuesday	372	3108T3E4	10:59:00	41:999	11:07:00	42:007	00:08:00	8	-	OUT
			3					11:07:00	42:007	12:44:00	42:104	01:37:00	97	Elective	IN
			3					12:44:00	42:104	12:53:00	42:113	00:09:00	9	-	OUT
		Orthopedic	3	31.09.2018	Tuesday	373	3108T3E5	12:53:00	42:113	14:03:00	42:183	01:10:00	70	Elective	IN
			3					14:03:00	42:183	19:00:00	42:480	04:57:00	297	-	OUT
Theatre 4															
Physician Specialties	Block	Physician Specialties	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4	31.09.2018	Tuesday	374	3108T4E1	07:00:00	41:760	07:17:00	41:777	00:17:00	17	-	OUT
			4					07:17:00	41:777	08:00:00	41:820	00:43:00	43	Elective	IN
		Obstetrics and Gynaecology	4	31.09.2018	Tuesday	375	3108T4E2	08:00:00	41:820	08:01:00	41:821	00:01:00	1	-	OUT
			4					08:01:00	41:821	08:50:00	41:870	00:49:00	49	Elective	IN
		Obstetrics and Gynaecology	4	31.09.2018	Tuesday	376	3108T4E3	08:50:00	41:870	10:32:00	41:972	01:42:00	102	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology	4	31.09.2018	Tuesday	376	3108T4E3	10:32:00	41:972	11:41:00	42:041	01:09:00	69	Elective	IN
			4					11:41:00	42:041	11:43:00	42:043	00:02:00	2	-	OUT
		Obstetrics and Gynaecology	4	31.09.2018	Tuesday	377	3108T4E4	11:43:00	42:043	12:32:00	42:092	00:49:00	49	Elective	IN
			4					12:32:00	42:092	12:33:00	42:093	00:01:00	1	-	OUT
		Obstetrics and Gynaecology	4	31.09.2018	Tuesday	378	3108T4E5	12:33:00	42:093	13:15:00	42:135	00:42:00	42	Elective	IN
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology	4	31.09.2018	Tuesday	379	3108T4E6	13:15:00	42:135	13:16:00	42:136	00:01:00	1	-	OUT
			4					13:16:00	42:136	13:37:00	42:157	00:21:00	21	Elective	IN
			4					13:37:00	42:157	13:38:00	42:158	00:01:00	1	-	OUT
		Obstetrics and Gynaecology	4	31.09.2018	Tuesday	380	3108T4E7	13:38:00	42:158	13:57:00	42:177	00:19:00	19	Elective	IN
			4					13:57:00	42:177	15:02:00	42:242	01:05:00	65	-	OUT
Urology	13:00	Urology	4	31.09.2018	Tuesday	381	3108T4E8	15:02:00	42:242	15:34:00	42:274	00:32:00	32	Elective	IN
			4					15:34:00	42:274	15:36:00	42:276	00:02:00	2	-	OUT
		Urology	4	31.09.2018	Tuesday	382	3108T4E9	15:36:00	42:276	16:02:00	42:302	00:26:00	26	Elective	IN
			4					16:02:00	42:302	17:56:00	42:416	01:54:00	114	Elective	IN
		Urology	4	31.09.2018	Tuesday	383	3108T4E10	17:56:00	42:416	18:05:00	42:425	00:09:00	9	-	OUT
Obstetrics and Gynaecology	07:00	Urology	4	31.09.2018	Tuesday	384	3108T4E11	18:05:00	42:425	19:00:00	42:480	00:55:00	55	Elective	IN
			4					19:00:00	42:480	19:35:00	42:515	00:35:00	24	Non-Elective	IN
		Obstetrics and Gynaecology	4	31.09.2018	Tuesday	385	3108T4E12	19:35:00	42:515	22:23:00	42:583	02:48:00	158	Non-Elective	IN
			4					22:23:00	42:583						
Overtime															
In Service		In Service													05:51:00
Out of Service		Out of Service													06:09:00
Overtime		Overtime													00:00:00
Utilization		Utilization													48.75%
In Service		In Service													04:26:00
Out of Service		Out of Service													07:34:00
Overtime		Overtime													00:00:00
Utilization		Utilization													36.94%
In Service		In Service													06:14:00
Out of Service		Out of Service													05:46:00
Overtime		Overtime													00:00:00
Utilization		Utilization													51.94%
In Service		In Service													11:41:00
Out of Service		Out of Service													03:21:00
Overtime		Overtime													03:02:00
Utilization		Utilization													72.08%

02-Jul																					
THEATRE 1																					
Physician Specialties	Block	Physician Specialties	Moved from	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
ENT & ENT & ENT	0700 - 0900						1	02-06-2018	Monday	1	02706.00	07:00.00	0	18:00.00	1:50	1:20.00	220	-	OUT		
THEATRE 2																					
Physician Specialties	Block	Physician Specialties	Moved from	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
General Surgeon	0700 - 0900			NO	NO	NO	2	02-06-2018	Monday	2	02707.01	17:00.00	6:50	17:50.00	30:00	03:00.00	5:30	Non-Elective	IN		
General Surgeon			1	NO	NO	NO	2	02-06-2018	Monday	1	02707.01.1	17:45.00	6:4	18:10.00	10:00	6:4	18:10.00	10:00	00:16.00	Non-Elective	OUT
							3	02-06-2018	Monday	3	02707.01.2	18:10.00	6:50	19:00.00	1:50	01:50.00	-	-	-	-	OUT
THEATRE 3																					
Physician Specialties	Block	Physician Specialties	Moved from	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	0700 - 0900						3	02-06-2018	Monday	3	02707.01	07:00.00	0	07:51.00	47:1	00:51.00	15	-	-	OUT	
Orthopaedic							3	02-06-2018	Monday	4	02707.01.1	07:51.00	3:57	03:58.00	1:55	-	-	-	-	IN	
							3	02-06-2018	Monday	4	02707.01.2	08:27.00	3:59	12:14:00	7:24	02:54.00	2:24	-	-	-	IN
							3	02-06-2018	Monday	4	02707.01.3	12:14.00	3:14	13:00.00	1:40	00:46.00	4:06	-	-	-	OUT
THEATRE 4																					
Physician Specialties	Block	Physician Specialties	Moved from	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	0700 - 1300						4	02-06-2018	Monday	5	02707.01.1	07:00.00	0	08:04.00	5:24	03:04.00	14	-	-	IN	
Orthopaedic							4	02-06-2018	Monday	6	02707.01.2	08:04.00	1:15	10:58.00	5:27	03:59.00	1:19	-	-	IN	
Orthopaedic							4	02-06-2018	Monday	7	02707.01.3	11:53.00	2:53	12:27.00	7:27	00:54.00	24	-	-	IN	
Obstetrics and Gynaecology	1300 - 1900						4	02-06-2018	Monday	8	02707.01.4	12:27.00	3:17	13:00.00	7:00	00:23.00	23	-	-	OUT	
Obstetrics and Gynaecology							4	02-06-2018	Monday	8	02707.01.5	13:00.00	3:50	13:46.00	4:26	00:46.00	46	-	-	OUT	
Obstetrics and Gynaecology							4	02-06-2018	Monday	9	02707.01.6	14:26.00	4:44	15:16.00	0:16	00:52.00	52	-	-	IN	
Obstetrics and Gynaecology	1300 - 1900						4	02-06-2018	Monday	10	02707.01.7	15:16.00	4:46	15:18:00	9:18	00:02.00	2	-	-	OUT	
Obstetrics and Gynaecology							4	02-06-2018	Monday	10	02707.01.8	15:18.00	4:58	16:10.00	0:52	00:52.00	52	-	-	IN	
Obstetrics and Gynaecology							4	02-06-2018	Monday	11	02707.01.9	16:10.00	5:00	16:46.00	1:40	00:46.00	46	-	-	OUT	

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04-Jul																					
Physician Specialties		Block	THEATRE 1																		
			Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
General Surgeon	07:00	19:00	General Surgeon	2	N/D	NO		1	04-07-2018	Wednesday	35	0407781	07:00:00	2880	08:00:00	3360	01:00:00	60	-	Elective	IN
			General Surgeon	2	NO	NO		1	04-07-2018	Wednesday	36	0407782	08:00:00	3009	09:00:00	3502	01:13:00	73	-	Elective	OUT
			General Surgeon	2	NO	NO		1	04-07-2018	Wednesday	36	0407782	09:00:00	3120	09:50:00	3507	01:55:00	65	-	Elective	IN
								1	11:17:50				3147	13:00:00	4080	07:23:00	450	-	-	OUT	
			THEATRE 2																		
			Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
General Surgeon	07:00	13:00	Orthopedic and Spinal Cord	1	YES	NO	8:00	2	04-07-2018	Wednesday	31	0407781	07:00:00	2980	07:50:00	3156	07:55:00	54	Non-Elective	IN	
			Orthopedic and Spinal Cord	1	YES	NO	8:00	2	04-07-2018	Wednesday	32	0407781	08:00:00	2936	08:40:00	3408	07:52:00	52	Non-Elective	IN	
			Orthopedic and Spinal Cord	1	YES	NO	8:00	2	04-07-2018	Wednesday	34	0407782	09:00:00	3041	13:00:00	3660	01:19:00	190	Non-Elective	OUT	
Overline	13:00	19:00	Orthopedic and Spinal Cord	4				2	04-07-2018	Wednesday	3	0407782	13:00:00	3240	19:00:00	4020	06:00:00	360	-	Non-Elective	OUT
			Orthopedic and Spinal Cord	4				2	04-07-2018	Wednesday	3	0407782	19:00:00	3509	19:30:00	4950	07:35:00	25	Non-Elective	IN	
			THEATRE 3																		
			Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
Orthopedic	07:00	13:00	Orthopedic					3	04-07-2018	Wednesday	37	0407781	07:00:00	2880	12:53:00	3653	02:53:00	353	Elective	IN	
			Orthopedic					3	04-07-2018	Wednesday	38	0407782	13:11:00	3253	13:13:00	3674	09:20:00	20	Elective	OUT	
			Orthopedic					3	04-07-2018	Wednesday	38	0407782	13:13:00	3258	14:08:00	3752	09:45:00	5	Elective	OUT	
			Orthopedic					3	04-07-2018	Wednesday	39	0407783	14:08:00	3306	14:58:00	3792	09:48:00	41	Elective	IN	
			Orthopedic					3	04-07-2018	Wednesday	39	0407783	14:58:00	3306	15:10:00	3962	09:50:00	67	Elective	IN	
			Orthopedic					3	04-07-2018	Wednesday	40	0407784	15:12:00	3372	15:21:00	3831	09:59:00	9	Elective	OUT	
			Orthopedic					3	04-07-2018	Wednesday	40	0407784	15:21:00	3381	16:01:00	3941	09:40:00	40	Elective	IN	
			Orthopedic					3	04-07-2018	Wednesday	41	0407785	16:01:00	3421	17:28:00	3928	01:27:00	87	Elective	OUT	
			Orthopedic					3	04-07-2018	Wednesday	41	0407785	17:28:00	3421	18:00:00	4020	09:33:00	3	Elective	OUT	
			THEATRE 4																		
			Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE	
General Surgeon	07:00	19:00	General Surgeon	4				4	04-07-2018	Wednesday	43	0407781	07:00:00	2980	08:51:00	3411	01:51:00	111	-	Elective	OUT
			General Surgeon	4				4	04-07-2018	Wednesday	43	0407781	08:51:00	2991	11:36:00	3576	03:45:00	156	Elective	IN	
			General Surgeon	4				4	04-07-2018	Wednesday	44	0407782	11:36:00	3126	13:45:00	3304	03:50:00	210	Elective	IN	
								4	13:44:00				3284	18:00:00	4020	05:16:00	316	-	Elective	OUT	
			In Service 04:35:00																		
			Out of Service 07:25:00																		
			Utilization 35.19%																		

05-Jul																			
THEATRE 1																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT/OF USE
Urology	07:00	Urology					1	05.07.2018	Thursday	45	05077111	08:18:00	4320	08:18:00	4388	08:53:00	08	Elective	IN
		Urology					1	05.07.2018	Thursday	46	05077112	10:02:00	4502	10:48:00	4598	10:53:00	46	Elective	IN
		Urology					1	05.07.2018	Thursday	47	05077113	10:53:00	4553	11:49:00	5029	00:56:00	56	Elective	IN
		Urology					1	05.07.2018	Thursday	48	05077114	11:49:00	4609	11:57:00	5037	00:08:00	8	-	OUT
		Urology					1	05.07.2018	Thursday	49	05077115	12:55:00	4675	13:05:00	5105	00:10:00	10	Elective	IN
		Urology					1	05.07.2018	Thursday	50	05077116	13:05:00	4683	15:15:00	5235	00:12:00	12	-	OUT
		Urology					1	05.07.2018	Thursday	51	05077117	15:15:00	4815	15:33:00	5253	00:38:00	38	Elective	IN
		Urology					1	05.07.2018	Thursday	52	05077118	15:33:00	4833	19:00:00	5460	03:27:00	207	-	OUT
		Urology					1	05.07.2018	Thursday	53	05077119	19:00:00	5040	19:32:00	5490	00:32:00	32	-	OUT
		Urology					1	05.07.2018	Thursday	54	05077120	19:32:00	5072	20:41:00	5561	01:09:00	69	Non-Elective	IN
THEATRE 2																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT/OF USE
Orthopedic	13:00	Orthopedic		NO	NO		2	05.07.2018	Thursday	65	05077111	13:00:00	4320	13:30:00	5100	06:00:00	360	-	OUT
		Orthopedic		NO	NO		2	05.07.2018	Thursday	66	05077112	13:30:00	4680	14:34:00	5214	01:38:00	78	Non-Elective	IN
		Orthopedic		NO	NO		2	05.07.2018	Thursday	67	05077113	14:34:00	4794	15:42:00	5262	01:48:00	48	-	OUT
		Orthopedic		YES	YES		2	05.07.2018	Thursday	68	05077114	15:42:00	5040	19:32:00	5490	00:32:00	32	Non-Elective	IN
		General Surgeon		YES	YES		2	05.07.2018	Thursday	53	05077112	19:32:00	5072	20:41:00	5561	01:09:00	69	Non-Elective	IN
		General Surgeon		YES	YES		2	05.07.2018	Thursday	60	05077113	20:41:00	5141	21:25:00	5605	00:44:00	44	Non-Elective	IN
		General Surgeon		YES	YES		2	05.07.2018	Thursday	60	05077113	21:25:00	5185	22:22:00	5662	00:57:00	57	Non-Elective	IN
		Orthopedic		YES	YES		2	05.07.2018	Thursday	62	05077114	22:22:00	5242	02:12:00	4332	01:57:00	147	Non-Elective	IN
		Orthopedic		YES	YES		2	05.07.2018	Thursday	x	05077116	00:12:00	3912	00:41:00	4361	00:29:00	29	Non-Elective	IN
		General Surgeon		YES	YES		2	05.07.2018	Thursday	x	05077116	00:41:00	3941	01:45:00	4425	01:04:00	64	Non-Elective	IN
THEATRE 3																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT/OF USE
Orthopedic	13:00	Orthopedic					3	05.07.2018	Thursday	61	05077111	07:00:00	4320	10:32:00	4952	03:32:00	212	Elective	IN
		Orthopedic					3	05.07.2018	Thursday	61	05077111	10:32:00	4532	13:00:00	5100	02:38:00	148	-	OUT
		Orthopedic					3	05.07.2018	Thursday	62	05077112	13:06:00	4686	16:55:00	5335	03:49:00	229	Elective	IN
		Orthopedic					3	05.07.2018	Thursday	63	05077113	16:55:00	4915	17:05:00	5345	00:10:00	10	-	OUT
		Orthopedic					3	05.07.2018	Thursday	63	05077113	17:05:00	4925	17:43:00	5381	00:38:00	38	Elective	IN
		Orthopedic					3	05.07.2018	Thursday	64	05077114	17:43:00	4963	17:50:00	5390	00:07:00	7	-	OUT
		Orthopedic					3	05.07.2018	Thursday	64	05077114	17:50:00	4970	19:10:00	5470	01:20:00	80	Elective	IN
		Orthopedic					3	05.07.2018	Thursday	64	05077114	19:10:00	5470	19:10:00	5470	00:00:00	0	-	OUT
		Orthopedic					3	05.07.2018	Thursday	64	05077114	19:10:00	5470	19:10:00	5470	00:00:00	0	-	OUT
		Orthopedic					3	05.07.2018	Thursday	64	05077114	19:10:00	5470	19:10:00	5470	00:00:00	0	-	OUT
THEATRE 4																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT/OF USE
General Surgeon	19:00	General Surgeon		NO	NO		4	05.07.2018	Thursday	54	05077111	07:00:00	4320	08:18:00	4815	01:18:00	78	-	OUT
		General Surgeon		NO	NO		4	05.07.2018	Thursday	54	05077111	08:18:00	4388	09:53:00	4913	01:38:00	95	Elective	IN
		General Surgeon		NO	NO		4	05.07.2018	Thursday	55	05077112	09:53:00	4493	10:02:00	4598	00:08:00	8	-	OUT
		General Surgeon		NO	NO		4	05.07.2018	Thursday	55	05077112	10:02:00	4502	10:48:00	4598	00:10:00	10	Elective	IN
		General Surgeon		NO	NO		4	05.07.2018	Thursday	56	05077113	10:48:00	4548	10:53:00	4653	00:10:00	10	Elective	IN
		General Surgeon		NO	NO		4	05.07.2018	Thursday	56	05077113	10:53:00	4653	11:49:00	5105	00:10:00	10	Elective	IN
		General Surgeon		NO	NO		4	05.07.2018	Thursday	57	05077114	11:49:00	4659	11:57:00	5037	00:08:00	8	-	OUT
		General Surgeon		NO	NO		4	05.07.2018	Thursday	58	05077115	12:55:00	4675	13:05:00	5105	00:10:00	10	Elective	IN
		General Surgeon		NO	NO		4	05.07.2018	Thursday	59	05077116	13:05:00	4683	15:15:00	5235	00:12:00	12	-	OUT
		General Surgeon		NO	NO		4	05.07.2018	Thursday	59	05077116	15:15:00	5235	00:12:00	5235	00:00:00	0	-	OUT

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10-Jul																			
THEATRE 1																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE	
Orthopaedic	07:00	General Surgeon	2	NO	NO	11:52	1	10-09-2018	Tuesday	105	10087211	08:02:00	11:52	08:02:00	11:52	01:02:00	62	-	OUT
		General Surgeon	2	NO	NO	11:52	1	10-09-2018	Tuesday	106	10087212	09:17:00	11:52	09:17:00	11:52	02:35:00	67	Elective	IN
	18:00	General Surgeon	2	NO	NO	11:52	1	10-09-2018	Tuesday	106	10087212	09:17:00	11:52	09:17:00	11:52	02:35:00	66	Elective	OUT
		General Surgeon	2	NO	NO	11:42:00	1	10-09-2018	Tuesday	107	10087213	11:42:00	11:82	16:00:00	12:00	04:18:00	238	-	OUT
						16:00:00	1	10-09-2018	Tuesday	108	10087214	16:00:00	12:00	19:00:00	12:40	03:00:00	180	-	OUT
THEATRE 2																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE	
General Surgeon	07:00	Urology	3	NO	NO	11:52	2	10-09-2018	Tuesday	109	10087215	07:24:00	11:52	07:24:00	11:52	04:34:00	54	-	OUT
		Urology	3	NO	NO	11:52	2	10-09-2018	Tuesday	110	10087216	08:48:00	11:52	08:48:00	11:52	03:14:00	82	Non-Elective	IN
		General Surgeon	3	NO	NO	11:52	2	10-09-2018	Tuesday	110	10087216.2	11:44:00	11:84	12:41:00	11:84	03:57:00	57	Non-Elective	OUT
		General Surgeon	3	NO	NO	11:52	2	10-09-2018	Tuesday	111	10087217	12:41:00	11:84	16:22:00	12:02	03:41:00	221	-	OUT
	19:00	General Surgeon	2	NO	YES	12:02	2	10-09-2018	Tuesday	107	10087216.1	16:22:00	12:02	18:24:00	12:04	02:02:00	122	Non-Elective	IN
		General Surgeon	3	NO	NO	11:52	2	10-09-2018	Tuesday	110	10087218	18:24:00	12:04	19:31:00	12:73	01:09:00	69	Non-Elective	
THEATRE 3																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE	
Orthopaedic	07:00					11:52	3	10-09-2018	Tuesday		10087220	07:00:00	11:52	07:00:00	12:40	13:00:00	70	-	OUT
	18:00																		
THEATRE 4																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE	
Obstetrics and Gynaecology	07:00	Urology				11:52	4	10-09-2018	Tuesday		10087220	07:00:00	11:52	07:00:00	11:50	06:00:00	340	-	OUT
		Urology				11:52	4	10-09-2018	Tuesday		13100000	11:880	11:880	19:00:00	12:40	06:00:00	380	-	OUT
	19:00																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Elective / Non-Elective	IN/OUT of USE	
Obstetrics and Gynaecology	07:00					13:00													
	13:00																		
	19:00																		
In Service	03:32:00	In Service																	
Out of Service	08:28:00	Out of Service																	
Overtime	00:00:00	Overtime																	
Utilization	29.4%	Utilization																	

10-Jul

THEATRE 1

THEATRE 2

THEATRE 3

THEATRE 4

THEATRE 5

THEATRE 6

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THEATRE 253

11-Jul																			
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
Orthopaedic	13:00	General Surgeon	3	NO	NO		1	11.09.2018	Wednesday	111	11087111	07:00:00	12:00	08:30:00	13:00	01:30:00	90	Elective	OUT
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	112	11087112	12:57:00	13:17	12:57:00	13:17	00:20:00	20	Elective	IN
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	113	11087113	13:26:00	13:46	13:27:00	13:47	00:01:00	1	Elective	OUT
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	114	11087114	14:44:00	15:04	14:45:00	15:05	00:02:00	2	Elective	IN
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	115	11087115	14:48:00	15:08	14:49:00	15:09	00:21:00	21	Elective	IN
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	116	11087116	15:09:00	15:29	15:10:00	15:30	00:21:00	21	Elective	IN
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	117	11087117	15:41:00	15:41	15:42:00	15:42	00:01:00	1	Elective	OUT
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	118	11087118	16:22:00	16:22	16:23:00	16:23	00:01:00	1	Elective	IN
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	119	11087119	16:55:00	16:55	16:56:00	16:56	00:01:00	1	Elective	OUT
		Orthopaedic	3	NO	NO		1	11.09.2018	Wednesday	120	11087120	17:43:00	17:43	17:44:00	17:44	00:01:00	1	Elective	OUT
THEATRE 2																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Obstetrics and Gynaecology	4	NO	NO		2	11.09.2018	Wednesday	121	11087121	07:11:00	12:00	08:12:00	13:00	01:01:00	61	Non-Elective	OUT
		General Surgeon	4	NO	NO		2	11.09.2018	Wednesday	122	11087122	13:49:00	13:49	13:50:00	13:50	00:01:00	1	Non-Elective	OUT
		General Surgeon	4	NO	NO		2	11.09.2018	Wednesday	123	11087123	13:49:00	13:49	13:50:00	13:50	00:01:00	1	Non-Elective	OUT
		General Surgeon	4	NO	NO		2	11.09.2018	Wednesday	124	11087124	13:49:00	13:49	13:50:00	13:50	00:01:00	1	Non-Elective	OUT
		General Surgeon	4	NO	NO		2	11.09.2018	Wednesday	125	11087125	13:49:00	13:49	13:50:00	13:50	00:01:00	1	Non-Elective	OUT
		General Surgeon	4	NO	NO		2	11.09.2018	Wednesday	126	11087126	13:49:00	13:49	13:50:00	13:50	00:01:00	1	Non-Elective	OUT
THEATRE 3																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					3	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 4																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					4	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 5																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					5	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 6																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					6	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 7																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					7	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 8																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					8	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 9																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					9	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 10																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					10	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 11																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					11	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 12																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					12	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 13																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					13	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 14																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					14	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 15																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					15	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 16																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					16	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 17																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					17	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 18																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					18	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 19																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					19	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 20																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					20	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 21																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					21	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 22																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					22	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 23																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					23	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 24																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					24	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 25																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					25	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 26																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					26	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 27																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					27	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 28																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					28	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 29																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					29	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 30																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					30	11.09.2018	Wednesday			07:00:00	12:00	07:00:00	12:00	05:00:00	720	Non-Elective	OUT
THEATRE 31																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Bective / Non-Elective	IN/OUT of USE
General Surgeon																			

12-Jul																			
THEATRE 1																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Urology	07:00	Urology					1	12-09-2018	Thursday	128	12807111	07:00:00	14:00	14:13:00	14:03	07:13:00	483	-	OUT
		Urology					1	12-09-2018	Thursday	128	12807112	14:13:00	14:43	14:57:00	30	07:43:00	30	Elective	IN
		Urology					1	12-09-2018	Thursday	128	12807113	14:57:00	16:00	16:13:00	36	08:03:00	36	Elective	OUT
		Urology					1	12-09-2018	Thursday	125	12807113	16:13:00	14:02	14:16:00	7	08:27:00	7	-	OUT
		Urology					1	12-09-2018	Thursday	125	12807113	16:13:00	14:02	14:16:00	52	09:52:00	52	Elective	IN
		Urology					1	12-09-2018	Thursday	125	12807113	14:16:00	15:04	15:18:00	3	10:04:00	3	-	OUT
		Urology					1	12-09-2018	Thursday	126	12807114	15:18:00	16:07	16:21:00	3	10:21:00	3	-	OUT
		Urology					1	12-09-2018	Thursday	126	12807114	16:21:00	17:10	17:24:00	3	10:34:00	3	Elective	IN
THEATRE 2																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	Teeth					2	12-09-2018	Thursday	127	12807111	07:00:00	14:00	07:09:00	14:09	07:09:00	9	-	OUT
		General Surgeon					2	12-09-2018	Thursday	127	12807112	07:09:00	14:09	07:18:00	14:19	07:18:00	15	Non-Elective	IN
		General Surgeon					2	12-09-2018	Thursday	128	12807112	07:18:00	14:04	08:21:00	14:04	08:21:00	27	-	OUT
		General Surgeon					2	12-09-2018	Thursday	128	12807112	08:21:00	14:51	08:21:00	14:51	08:27:00	207	Non-Elective	OUT
Overtime		General Surgeon					2	12-09-2018	Thursday	129	12807113	14:51:00	14:59	15:13:00	14:59	15:13:00	56	Non-Elective	IN
		Urology					2	12-09-2018	Thursday	129	12807113	15:13:00	14:59	15:26:00	15:26	15:36:00	316	-	OUT
		Urology					2	12-09-2018	Thursday	129	12807114	15:26:00	15:14	15:39:00	15:19	15:44:00	74	Non-Elective	IN
		General Surgeon					2	12-09-2018	Thursday	129	12807114	15:39:00	15:24	15:44:00	15:24	15:54:00	92	Non-Elective	IN
		General Surgeon					2	12-09-2018	Thursday	129	12807115	15:54:00	15:33	16:09:00	15:33	16:19:00	92	Non-Elective	IN
		Urology					2	12-09-2018	Thursday	129	12807115	16:19:00	15:33	16:19:00	15:36	16:43:00	43	Non-Elective	IN
		Urology					2	12-09-2018	Thursday	129	12807116	16:43:00	15:36	16:43:00	15:36	16:43:00	29	Non-Elective	IN
		Urology					2	12-09-2018	Thursday	129	12807116	16:43:00	15:36	16:43:00	15:36	16:43:00	29	Non-Elective	IN
THEATRE 3																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					3	12-09-2018	Thursday	130	12807111	07:00:00	14:00	07:09:00	14:09	07:09:00	9	-	OUT
		Orthopaedic					3	12-09-2018	Thursday	130	12807111	08:09:00	14:09	11:23:00	14:07	11:23:00	351	Elective	OUT
		Orthopaedic					3	12-09-2018	Thursday	130	12807112	11:23:00	14:07	11:29:00	14:09	11:29:00	12	-	IN
Orthopaedic	13:00	Orthopaedic					3	12-09-2018	Thursday	131	12807112	12:29:00	13:09	13:48:00	13:09	13:48:00	290	Elective	IN
		Orthopaedic					3	12-09-2018	Thursday	131	12807112	13:48:00	13:09	13:50:00	13:10	14:11:00	251	-	OUT
THEATRE 4																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	07:00:00	14:00	07:09:00	14:09	06:09:00	360	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	13:00:00	14:00	13:00:00	13:10	06:00:00	360	-	OUT
Orthopaedic	13:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	13:00:00	14:00	13:00:00	13:10	06:00:00	360	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	13:00:00	14:00	13:00:00	13:10	06:00:00	360	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10	09:00:00	10	-	OUT
		Orthopaedic					4	12-09-2018	Thursday	130	12807111	10:10:00	10:00	10:10:00	10:10	09:00:00	10	-	OUT
Orthopaedic	09:00	Orthopaedic					4	12-09-2018	Thursday	130	12807111	09:00:00	10:00	09:00:00	10:10</				

In Service	04:55:00
Out of Service	07:26:00
Utilisation	002:1:00
	38.08%

In Service	07:12:00
Out of Service	09:10:00
Utilisation	005:1:00
	19.88%

In Service	06:11:00
Out of Service	05:29:00
Utilisation	000:0:00
	54.33%

In Service	00:00:00
Out of Service	12:00:00
Utilisation	000:0:00
	0.00%

13-Jul																			
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Ear, Nose and Throat	07:00	Ear, Nose and Throat					1	12.09.2018	Friday	132	13087111	07:00:00	13040	07:59:00	15089	0:59:00	59	-	OUT
		Ear, Nose and Throat					1	12.09.2018	Friday	133	13087112	07:55:00	13059	08:25:00	15099	0:30:00	57	Elective	IN
		Ear, Nose and Throat					1	12.09.2018	Friday	134	13087113	08:25:00	13069	08:55:00	15109	0:30:00	57	Elective	IN
		Ear, Nose and Throat					1	12.09.2018	Friday	135	13087114	08:55:00	13079	09:25:00	15119	0:30:00	54	Elective	IN
General Surgeon	13:00	General Surgeon	2	NO			1	12.09.2018	Friday	137	13087211	08:57:00	13097	08:57:00	16098	0:01:00	91	-	OUT
		General Surgeon					1	12.09.2018	Friday	138	13087212	09:28:00	16048	11:21:00	16101	0:53:00	53	Elective	OUT
		General Surgeon					1	12.09.2018	Friday	139	13087213	11:21:00	16108	11:27:00	16107	0:06:00	6	-	OUT
		General Surgeon					1	12.09.2018	Friday	140	13087214	11:27:00	16107	11:30:00	16109	0:03:00	8	Elective	OUT
General Surgeon	19:00	General Surgeon	2	NO			1	12.09.2018	Friday	141	13087215	12:00:00	16109	12:00:00	16109	0:00:00	0	-	OUT
		General Surgeon					1	12.09.2018	Friday	142	13087216	13:00:00	16109	13:00:00	16109	0:00:00	0	-	OUT
		General Surgeon					1	12.09.2018	Friday	143	13087217	13:00:00	16109	13:00:00	16109	0:00:00	0	-	OUT
		General Surgeon					1	12.09.2018	Friday	144	13087218	13:00:00	16109	13:00:00	16109	0:00:00	0	-	OUT
General Surgeon	07:00	General Surgeon	3	YES		38.00	2	12.09.2018	Friday	140	13087311	08:03:00	13060	08:38:00	15098	0:35:00	35	Non-Elective	IN
		Obstetrics and Gynaecology					2	12.09.2018	Friday	141	13087312	08:38:00	13069	09:39:00	15099	0:01:00	61	Non-Elective	IN
		General Surgeon					2	12.09.2018	Friday	142	13087313	09:39:00	13099	10:28:00	16098	0:49:00	49	Non-Elective	IN
		General Surgeon					2	12.09.2018	Friday	143	13087314	10:28:00	13069	11:54:00	16104	0:26:00	38	Non-Elective	IN
General Surgeon	19:00	General Surgeon	3	YES		127.00	2	12.09.2018	Friday	140	13087315	11:54:00	16134	12:46:00	16095	0:51:00	51	Non-Elective	OUT
		General Surgeon					2	12.09.2018	Friday	141	13087316	12:46:00	16108	15:10:00	16100	0:25:00	145	Non-Elective	IN
		Orthopaedic					2	12.09.2018	Friday	142	13087317	15:10:00	16139	15:35:00	16095	0:25:00	25	Non-Elective	IN
		Orthopaedic					2	12.09.2018	Friday	143	13087318	15:35:00	16095	16:27:00	16097	0:52:00	172	Non-Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							3	12.09.2018	Friday			13:00:00	13040	13:00:00	16090	0:00:00	360	-	OUT
							3	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							3	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	302	Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	302	Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	302	Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	302	Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	302	Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	302	Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	302	Elective	OUT
Physician Specialities	13:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
							4	12.09.2018	Friday			13:00:00	16020	13:00:00	16090	0:00:00	360	-	OUT
Physician Specialities	07:00	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes) <td>Theatre<td>Date</td><td>Day of the Week</td><td>Type</td><td>Patient ID</td><td>Start</td><td>Minutes</td><td>End</td><td>Minutes</td><td>Duration</td><td>Minutes</td><td>Elective / Non-Elective</td><td>IN/OUT of USE</td></td>	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>Minutes</td> <td>End</td> <td>Minutes</td> <td>Duration</td> <td>Minutes</td> <td>Elective / Non-Elective</td> <td>IN/OUT of USE</td>	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	17	Elective	OUT
							4	12.09.2018	Friday			07:00:00	13040	07:00:00	13098	0:00:00	40	Elective	OUT
							4	12.09.2											

16-Jul																			
THEATRE 1																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					1	16-09-2018	Monday	147	16087181	07:00:00	20:00	07:05:00	20:06	00:06:00	6	-	OUT
		General Surgeon					1	16-09-2018	Monday	147	16087181	07:05:00	20:06	07:10:00	20:12	00:06:00	19	Effective	IN
		General Surgeon					1	16-09-2018	Monday	148	16087182	07:11:00	20:31	06:57:00	20:37	00:06:00	46	Effective	IN
		General Surgeon					1	16-09-2018	Monday	149	16087183	07:05:00	20:37	07:05:00	20:45	00:08:00	8	Effective	OUT
		General Surgeon					1	16-09-2018	Monday	149	16087183	07:05:00	20:38	11:31:00	20:41	00:10:00	136	Effective	IN
General Surgeon	19:00	General Surgeon					1	16-09-2018	Monday	150	16087184	11:35:00	20:55	16:53:00	20:58	00:18:00	136	Effective	OUT
		General Surgeon					1	16-09-2018	Monday	150	16087184	14:53:00	20:58	15:02:00	20:62	00:09:00	9	Effective	OUT
		General Surgeon					1	16-09-2018	Monday	151	16087185	15:02:00	20:62	15:53:00	20:69	00:51:00	51	Effective	IN
						1	16-09-2018	Monday	151	16087185	20:53:00	20:69	19:05:00	20:80	03:07:00	187	-	OUT	
THEATRE 2																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					2	16-09-2018	Monday	156	160871941	07:00:00	20:00	14:15:00	20:06	07:16:00	438	-	IN
		General Surgeon	3	NO			2	16-09-2018	Monday	156	160871941	14:16:00	20:06	14:47:00	20:27	00:31:00	31	Non-Effective	OUT
							2	16-09-2018	Monday	156	160871941	14:47:00	20:27	19:05:00	20:80	04:13:00	253	-	OUT
THEATRE 3																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					3	16-09-2018	Monday	152	16087181	07:00:00	20:00	06:15:00	20:36	00:16:00	76	Effective	IN
		Orthopaedic					3	16-09-2018	Monday	152	16087181	06:16:00	20:36	10:29:00	20:39	02:13:00	139	Effective	IN
		Orthopaedic					3	16-09-2018	Monday	153	16087182	10:29:00	20:39	10:38:00	20:49	00:09:00	9	Effective	OUT
		Orthopaedic					3	16-09-2018	Monday	153	16087182	10:38:00	20:39	10:51:00	20:42	00:10:00	34	Effective	IN
Orthopaedic	19:00	Orthopaedic					3	16-09-2018	Monday	154	16087183	12:20:00	20:40	12:29:00	20:46	00:28:00	38	Effective	OUT
		Orthopaedic					3	16-09-2018	Monday	154	16087183	12:58:00	20:58	13:03:00	20:53	00:05:00	5	Effective	OUT
Orthopaedic		Orthopaedic					3	16-09-2018	Monday	155	16087184	13:03:00	20:53	14:08:00	20:86	01:03:00	63	Effective	IN
		Orthopaedic					3	16-09-2018	Monday	155	16087184	14:06:00	20:86	15:05:00	20:80	04:54:00	294	-	OUT
THEATRE 4																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
Orthopaedic	13:00	Orthopaedic					4	16-09-2018	Monday	157	16087181	07:00:00	20:00	07:05:00	20:08	00:08:00	8	Effective	IN
		Orthopaedic					4	16-09-2018	Monday	157	16087181	07:08:00	20:08	09:30:00	20:10	02:22:00	142	Effective	IN
		Orthopaedic					4	16-09-2018	Monday	158	16087182	09:30:00	20:10	10:13:00	20:13	00:43:00	43	-	OUT
		Orthopaedic					4	16-09-2018	Monday	158	16087182	10:13:00	20:13	10:50:00	20:40	00:47:00	47	Effective	IN
Obstetrics and Gynaecology		Obstetrics and Gynaecology					4	16-09-2018	Monday	159	16087183	11:00:00	20:20	11:05:00	20:25	00:26:00	26	-	OUT
		Obstetrics and Gynaecology					4	16-09-2018	Monday	159	16087183	11:05:00	20:25	14:20:00	20:26	00:36:00	35	Effective	IN
		Obstetrics and Gynaecology					4	16-09-2018	Monday	160	16087184	14:20:00	20:26	14:56:00	20:36	00:36:00	36	Effective	IN
		Obstetrics and Gynaecology					4	16-09-2018	Monday	161	16087185	14:56:00	20:36	15:16:00	20:36	00:40:00	40	Effective	IN
Obstetrics and Gynaecology		Obstetrics and Gynaecology					4	16-09-2018	Monday	162	16087186	15:16:00	20:36	15:29:00	20:37	00:13:00	13	Effective	IN
		Obstetrics and Gynaecology					4	16-09-2018	Monday	163	16087187	15:16:00	20:37	16:40:00	20:40	00:24:00	24	Effective	IN
		Obstetrics and Gynaecology					4	16-09-2018	Monday	163	16087187	16:40:00	20:40	16:48:00	20:46	00:08:00	8	-	OUT
		Obstetrics and Gynaecology					4	16-09-2018	Monday	164	16087188	15:48:00	20:48	17:13:00	20:79	00:31:00	31	Effective	IN
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					4	16-09-2018	Monday	165	16087189	17:13:00	20:79	17:44:00	20:80	00:25:00	25	Effective	IN
		Obstetrics and Gynaecology					4	16-09-2018	Monday	165	16087189	17:44:00	20:80	18:05:00	20:86	00:21:00	21	Effective	IN
Obstetrics and Gynaecology		Obstetrics and Gynaecology					4	16-09-2018	Monday	166	16087190	17:46:00	20:86	18:05:00	20:85	00:39:00	39	Effective	IN
		Obstetrics and Gynaecology					4	16-09-2018	Monday	166	16087190	18:05:00	20:86	19:05:00	20:80	00:55:00	55	-	OUT
							4	16-09-2018	Monday	166	16087190	19:05:00	20:80	19:50:00	20:86	00:55:00	55	Effective	OUT

In Service	07:57:00
Out of Service	04:03:00
Overtime	02:00:00
Utilisation	66.2%

In Service	07:11:00
Out of Service	11:29:00
Overtime	00:00:00
Utilisation	4.9%

In Service	05:28:00
Out of Service	06:22:00
Overtime	00:00:00
Utilisation	45.9%

In Service	07:19:00
Out of Service	04:41:00
Overtime	00:00:00
Utilisation	60.7%

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18-Jul																				
THEATRE 1																				
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
General Surgeon	07:00 - 13:00						1	18.07.2018	Wednesday	190	19087115	07:00:00	20:00	13:00:00	2:00:00	3:00	-	OUT		
	13:00 - 19:00						1	18.07.2018	Wednesday	190	19087115	13:00:00	2:00	19:00:00	2:70:00	3:00	-	OUT		
THEATRE 2																				
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
General Surgeon	07:00 - 19:00	General Surgeon	1	NO	NO		2	18.07.2018	Wednesday	190	19087115	07:00:00	20:00	07:58:00	2:00:00	02:42:00	38	Non-Elective	IN	
		General Surgeon	1	NO	NO		2	18.07.2018	Wednesday	191	19087112	08:40:00	2:10	13:16:00	2:34:00	02:38:00	38	Non-Elective	IN	
		General Surgeon	4	NO	NO		2	18.07.2018	Wednesday	207	19087142	15:40:00	2:04	14:26:00	2:48:00	02:22:00	32	Non-Elective	OUT	
		General Surgeon	4	NO	NO		2	18.07.2018	Wednesday	207	19087142	15:40:00	2:04	14:26:00	2:48:00	02:22:00	32	Non-Elective	OUT	
		General Surgeon	4	NO	NO		2	18.07.2018	Wednesday	208	19087141	16:17:00	2:09	16:17:00	2:49:00	02:32:00	35	Non-Elective	OUT	
		General Surgeon	4	NO	NO		2	18.07.2018	Wednesday	208	19087141	16:17:00	2:09	16:17:00	2:49:00	02:32:00	35	Non-Elective	OUT	
		General Surgeon	4	YES	YES		2	18.07.2018	Wednesday	212	19087141	18:31:00	2:73	18:54:00	2:74	02:21:00	21	Non-Elective	IN	
		Orthotics and Prosthetics	4	YES	YES		2	18.07.2018	Wednesday	206	19087141	18:31:00	2:74	19:43:00	2:80	02:10:00	30	Non-Elective	IN	
		General Surgeon	4	YES	YES		2	18.07.2018	Wednesday	206	19087141	18:31:00	2:80	20:13:00	2:83	02:42:00	30	Non-Elective	IN	
THEATRE 3																				
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
General Surgeon	07:00 - 19:00	General Surgeon	3	NO	NO		3	18.07.2018	Wednesday	193	19087215	07:00:00	20:00	08:31:00	2:31	02:32:00	32	Elective	IN	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	193	19087215	08:31:00	2:31	08:38:00	2:38	02:07:00	7	Elective	IN	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	194	19087212	08:38:00	2:31	09:14:00	2:34	02:36:00	36	Elective	IN	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	195	19087213	09:14:00	2:34	09:19:00	2:37	02:05:00	5	Elective	OUT	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	195	19087213	09:19:00	2:37	09:08:00	2:38	02:05:00	49	Elective	IN	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	196	19087214	09:08:00	2:38	11:48:00	2:38	02:34:00	84	Elective	OUT	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	196	19087214	11:48:00	2:38	11:57:00	2:37	02:09:00	9	Elective	OUT	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	197	19087215	11:57:00	2:37	13:55:00	2:40	03:58:00	118	Elective	IN	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	198	19087216	14:00:00	2:40	15:51:00	2:43	02:11:00	111	Elective	IN	
		General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	198	19087216	14:00:00	2:40	15:51:00	2:43	02:11:00	111	Elective	IN	
General Surgeon	2	NO	NO		3	18.07.2018	Wednesday	199	19087217	16:02:00	2:43	19:40:00	2:80	03:38:00	218	Elective	IN			
THEATRE 4																				
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00 - 13:00	Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	200	19087311	07:00:00	20:00	12:55:00	2:39	05:55:00	35	-	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	200	19087311	12:55:00	2:39	13:40:00	2:40	03:50:00	45	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	201	19087312	13:40:00	2:40	14:07:00	2:47	02:26:00	26	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	201	19087312	14:07:00	2:47	14:08:00	2:48	02:01:00	1	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	202	19087313	14:08:00	2:48	15:17:00	2:57	02:09:00	69	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	203	19087314	15:17:00	2:57	16:15:00	2:59	02:58:00	58	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	203	19087314	16:15:00	2:59	16:16:00	2:59	02:04:00	4	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	204	19087315	17:04:00	2:59	17:20:00	2:46	02:01:00	1	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	205	19087316	17:20:00	2:46	17:50:00	2:50	02:30:00	30	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	205	19087316	17:50:00	2:50	19:00:00	2:70	01:10:00	70	-	OUT	
THEATRE 5																				
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00 - 13:00	Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	200	19087311	07:00:00	20:00	12:55:00	2:39	05:55:00	35	-	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	200	19087311	12:55:00	2:39	13:40:00	2:40	03:50:00	45	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	201	19087312	13:40:00	2:40	14:07:00	2:47	02:26:00	26	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	201	19087312	14:07:00	2:47	14:08:00	2:48	02:01:00	1	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	202	19087313	14:08:00	2:48	15:17:00	2:57	02:09:00	69	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	203	19087314	15:17:00	2:57	16:15:00	2:59	02:58:00	58	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	203	19087314	16:15:00	2:59	16:16:00	2:59	02:04:00	4	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	204	19087315	17:04:00	2:59	17:20:00	2:46	02:01:00	1	Elective	OUT	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	205	19087316	17:20:00	2:46	17:50:00	2:50	02:30:00	30	Elective	IN	
		Orthopaedic	3	NO	NO		4	18.07.2018	Wednesday	205	19087316	17:50:00	2:50	19:00:00	2:70	01:10:00	70	-	OUT	
THEATRE 6																				
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
In Service	07:00:00 - 12:00:00	In Service	06:48:00					06:48:00												
		Out of Service	07:12:00					07:12:00												
		Overtime	00:00:00																	
		Utilisation	0.00%																	
		In Service	07:00:00 - 12:00:00	In Service	06:48:00					06:48:00										
				Out of Service	07:12:00					07:12:00										
				Overtime	00:00:00															
				Utilisation	46.47%															

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24-Jul																			
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Orthopaedic	07:00	Orthopaedic					1	24.09.2018	Tuesday	263	24087111	08:45:00	31:860	08:46:00	31:786	01:45:00	306	Elective	IN
		Orthopaedic					1	24.09.2018	Tuesday	264	24087112	08:45:00	31:766	08:46:00	31:789	00:53:00	3	-	OUT
		Orthopaedic					1	24.09.2018	Tuesday	265	24087113	08:45:00	31:840	08:46:00	31:803	00:59:00	9	Elective	OUT
		Orthopaedic					1	24.09.2018	Tuesday	266	24087113	08:45:00	31:803	10:44:00	31:893	00:59:00	9	Elective	OUT
Orthopaedic	16:00	Orthopaedic					1	24.09.2018	Tuesday	267	24087113	11:56:00	31:976	11:56:00	31:976	01:13:00	78	Elective	IN
		Orthopaedic					1	24.09.2018	Tuesday	268	24087114	11:56:00	31:977	12:52:00	32:023	00:55:00	55	Elective	OUT
		Orthopaedic					1	24.09.2018	Tuesday	269	24087114	12:52:00	32:023	16:00:00	32:020	03:58:00	388	-	OUT
		Orthopaedic					1	24.09.2018	Tuesday	270	24087114	16:00:00	32:020	19:00:00	32:460	03:50:00	360	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
General Surgeon	19:00	General Surgeon		NO			2	24.09.2018	Tuesday	271	24087141	17:48:00	32:265	17:50:00	32:338	05:33:00	52	Non-Effective	OUT
		General Surgeon					2	24.09.2018	Tuesday	272	24087142	17:48:00	32:338	18:15:00	32:565	00:17:00	17	-	OUT
		General Surgeon		NO			2	24.09.2018	Tuesday	273	24087143	17:48:00	32:565	19:13:00	32:413	05:58:00	98	Non-Effective	IN
		General Surgeon					2	24.09.2018	Tuesday	274	24087143	17:48:00	32:413	20:18:00	32:448	01:13:00	78	Non-Effective	IN
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Orthopaedic	19:00	Orthopaedic					3	24.09.2018	Tuesday	275	24087141	07:37:00	31:680	07:37:00	31:717	00:57:00	37	Elective	IN
		Orthopaedic					3	24.09.2018	Tuesday	276	24087141	07:37:00	31:717	07:42:00	31:722	00:05:00	5	-	OUT
		Orthopaedic		YES			3	24.09.2018	Tuesday	277	24087141	07:37:00	31:722	08:57:00	31:797	01:15:00	70	Elective	OUT
		Orthopaedic					3	24.09.2018	Tuesday	278	24087141	07:37:00	31:797	10:37:00	31:870	01:40:00	100	Elective	OUT
Orthopaedic	19:00	Orthopaedic					3	24.09.2018	Tuesday	279	24087142	11:56:00	32:155	11:56:00	32:155	01:13:00	78	Elective	OUT
		Orthopaedic					3	24.09.2018	Tuesday	280	24087142	11:56:00	32:155	12:52:00	32:203	01:13:00	78	Elective	OUT
		Orthopaedic					3	24.09.2018	Tuesday	281	24087143	12:52:00	32:023	13:52:00	32:092	01:13:00	78	Elective	IN
		Orthopaedic					3	24.09.2018	Tuesday	282	24087143	13:52:00	32:092	15:16:00	32:176	01:24:00	84	Elective	IN
General Surgeon	19:00	General Surgeon					3	24.09.2018	Tuesday	283	24087143	15:16:00	32:176	15:19:00	32:219	00:43:00	43	Elective	IN
		General Surgeon		YES			3	24.09.2018	Tuesday	284	24087143	15:19:00	32:219	16:24:00	32:244	01:05:00	25	Elective	IN
		General Surgeon					3	24.09.2018	Tuesday	285	24087144	16:24:00	32:244	19:00:00	32:460	02:36:00	236	-	OUT
		General Surgeon					3	24.09.2018	Tuesday	286	24087144	19:00:00	32:460	20:18:00	32:448	01:13:00	78	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	279	24087141	07:37:00	31:682	08:03:00	31:743	00:51:00	51	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	280	24087142	08:03:00	31:743	08:05:00	31:745	00:02:00	2	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	281	24087142	08:03:00	31:745	10:16:00	31:876	02:11:00	131	Elective	IN
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	282	24087143	10:16:00	31:876	11:56:00	31:976	01:40:00	100	Elective	IN
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	283	24087143	10:16:00	31:976	10:58:00	31:916	00:02:00	2	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	284	24087144	10:58:00	31:916	11:39:00	31:959	00:41:00	41	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	285	24087145	11:39:00	31:959	11:42:00	31:962	00:03:00	3	-	IN
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	286	24087145	11:42:00	31:962	12:29:00	32:009	00:57:00	47	Elective	IN
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	287	24087146	12:29:00	32:009	12:56:00	32:016	00:27:00	27	Elective	IN
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	288	24087146	12:56:00	32:016	13:56:00	32:041	00:59:00	31	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	289	24087146	13:56:00	32:041	15:10:00	32:040	00:05:00	5	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	290	24087146	15:10:00	32:040	19:00:00	32:400	06:00:00	360	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	291	24087146	19:00:00	32:400	20:18:00	32:400	01:18:00	18	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	292	24087146	20:18:00	32:400	21:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	293	24087146	21:18:00	32:400	22:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	294	24087146	22:18:00	32:400	23:18:00	32:400	01:00:00	0	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	295	24087146	23:18:00	32:400	24:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	296	24087146	24:18:00	32:400	25:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	297	24087146	25:18:00	32:400	26:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	298	24087146	26:18:00	32:400	27:18:00	32:400	01:00:00	0	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	299	24087146	27:18:00	32:400	28:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	300	24087146	28:18:00	32:400	29:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	301	24087146	29:18:00	32:400	30:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	302	24087146	30:18:00	32:400	31:18:00	32:400	01:00:00	0	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	303	24087146	31:18:00	32:400	32:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	304	24087146	32:18:00	32:400	33:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	305	24087146	33:18:00	32:400	34:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	306	24087146	34:18:00	32:400	35:18:00	32:400	01:00:00	0	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	307	24087146	35:18:00	32:400	36:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	308	24087146	36:18:00	32:400	37:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	309	24087146	37:18:00	32:400	38:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	310	24087146	38:18:00	32:400	39:18:00	32:400	01:00:00	0	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	311	24087146	39:18:00	32:400	40:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	312	24087146	40:18:00	32:400	41:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	313	24087146	41:18:00	32:400	42:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	314	24087146	42:18:00	32:400	43:18:00	32:400	01:00:00	0	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Elective / Non-Elective	IN/OUT/USE	
Obstetrics and Gynaecology	19:00	Obstetrics and Gynaecology					4	24.09.2018	Tuesday	315	24087146	43:18:00	32:400	44:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	316	24087146	44:18:00	32:400	45:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	317	24087146	45:18:00	32:400	46:18:00	32:400	01:00:00	0	-	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tuesday	318	24087146	46:18:00	32:400	47:18:00	32:400	01:00:00	0	-	OUT
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From</																

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THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Ear, Nose and Throat	0700	Ear, Nose and Throat					1	27.09.2018	Friday	321	27087111	07:00:00	36:00	07:21:00	36:02	00:21:00	22	-	OUT
							2	27.09.2018	Friday	321	27087111	08:00:00	36:00	08:15:00	36:02	00:15:00	6	Elective	OUT
13:00	15:00	Ear, Nose and Throat					1	27.09.2018	Friday	324	27087112	08:55:00	36:05	09:27:00	36:07	00:32:00	32	Elective	IN
							2	27.09.2018	Friday	324	27087112	09:47:00	36:09	10:00:00	36:10	00:13:00	23	-	OUT
THEATRE 2																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	0700	Obstetrics and Gynaecology					2	27.09.2018	Friday	327	27087113	07:00:00	36:00	07:17:00	36:07	00:17:00	17	Non-Elective	IN
							2	27.09.2018	Friday	328	27087114	07:15:00	36:00	07:30:00	36:07	00:15:00	15	Non-Elective	OUT
							2	27.09.2018	Friday	328	27087114	08:11:00	36:08	08:20:00	36:10	00:09:00	59	-	IN
							2	27.09.2018	Friday	325	27087115	09:20:00	36:10	10:48:00	36:28	01:28:00	88	-	OUT
							2	27.09.2018	Friday	325	27087115	11:20:00	36:20	12:17:00	36:17	00:47:00	47	Non-Elective	IN
							2	27.09.2018	Friday	326	27087116	12:50:00	36:10	13:00:00	36:17	00:10:00	10	Non-Elective	OUT
							2	27.09.2018	Friday	326	27087116	13:10:00	36:10	13:20:00	36:17	00:10:00	10	Non-Elective	IN
							2	27.09.2018	Friday	326	27087116	15:10:00	36:10	15:20:00	36:17	00:10:00	10	Non-Elective	IN
							2	27.09.2018	Friday	326	27087116	16:00:00	36:40	16:31:00	36:51	00:31:00	211	-	IN
							2	27.09.2018	Friday	x	27087116	16:51:00	36:51	17:23:00	36:53	00:32:00	52	Non-Elective	IN
THEATRE 3																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	0700	Obstetrics and Gynaecology					3	27.09.2018	Friday	327	27087117	07:00:00	36:00	07:09:00	36:03	00:09:00	3	-	OUT
							3	27.09.2018	Friday	327	27087117	07:15:00	36:08	07:25:00	36:10	00:10:00	13	Elective	OUT
							3	27.09.2018	Friday	331	27087118	07:51:00	36:08	08:05:00	36:10	00:14:00	14	Elective	OUT
							3	27.09.2018	Friday	331	27087118	07:51:00	36:08	08:05:00	36:10	00:14:00	14	Elective	OUT
13:00	15:00	Orthopaedic					3	27.09.2018	Friday	334	27087119	12:48:00	36:148	12:56:00	36:16	00:08:00	8	-	OUT
							3	27.09.2018	Friday	334	27087119	12:56:00	36:16	13:21:00	36:18	00:25:00	25	Elective	IN
THEATRE 4																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	0700	General Surgeon					4	27.09.2018	Friday	329	27087211	09:29:00	36:10	10:25:00	36:16	00:56:00	46	Elective	OUT
							4	27.09.2018	Friday	329	27087211	10:15:00	36:16	10:25:00	36:16	00:10:00	11	-	OUT
							4	27.09.2018	Friday	330	27087212	10:25:00	36:206	10:56:00	36:26	00:31:00	30	Elective	IN
							4	27.09.2018	Friday	331	27087213	10:56:00	36:26	11:05:00	36:26	00:09:00	9	-	OUT
							4	27.09.2018	Friday	331	27087213	11:05:00	36:26	11:46:00	36:28	00:41:00	41	Elective	OUT
							4	27.09.2018	Friday	332	27087214	11:46:00	36:28	12:14:00	36:14	00:28:00	28	Elective	OUT
13:00	15:00	General Surgeon					4	27.09.2018	Friday	332	27087214	11:46:00	36:28	12:14:00	36:14	00:28:00	28	Elective	IN
							4	27.09.2018	Friday	332	27087214	12:14:00	36:14	13:00:00	36:16	00:46:00	46	-	OUT
THEATRE 5																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	0700	General Surgeon					4	27.09.2018	Friday	329	27087211	09:29:00	36:10	10:25:00	36:16	00:56:00	46	Elective	OUT
							4	27.09.2018	Friday	329	27087211	10:15:00	36:16	10:25:00	36:16	00:10:00	11	-	OUT
13:00	15:00	General Surgeon					4	27.09.2018	Friday	330	27087212	10:25:00	36:206	10:56:00	36:26	00:31:00	30	Elective	IN
							4	27.09.2018	Friday	331	27087213	10:56:00	36:26	11:05:00	36:26	00:09:00	9	-	OUT
THEATRE 6																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	0700	General Surgeon					4	27.09.2018	Friday	329	27087211	09:29:00	36:10	10:25:00	36:16	00:56:00	46	Elective	OUT
							4	27.09.2018	Friday	329	27087211	10:15:00	36:16	10:25:00	36:16	00:10:00	11	-	OUT
13:00	15:00	General Surgeon					4	27.09.2018	Friday	330	27087212	10:25:00	36:206	10:56:00	36:26	00:31:00	30	Elective	IN
							4	27.09.2018	Friday	331	27087213	10:56:00	36:26	11:05:00	36:26	00:09:00	9	-	OUT
THEATRE 7																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	0700	General Surgeon					4	27.09.2018	Friday	329	27087211	09:29:00	36:10	10:25:00	36:16	00:56:00	46	Elective	OUT
							4	27.09.2018	Friday	329	27087211	10:15:00	36:16	10:25:00	36:16	00:10:00	11	-	OUT
13:00	15:00	General Surgeon					4	27.09.2018	Friday	330	27087212	10:25:00	36:206	10:56:00	36:26	00:31:00	30	Elective	IN
							4	27.09.2018	Friday	331	27087213	10:56:00	36:26	11:05:00	36:26	00:09:00	9	-	OUT

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THEATRE 1																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	1				1	30/07/2018	Monday	139	3007111	07:00:00	40:50	08:40:50	07:05:00	115		Elective	OUT
		General Surgeon	1				1	30/07/2018	Monday	139	3007111	07:05:00	40:50	08:40:50	07:10:00	5		Elective	OUT
		General Surgeon	1				1	30/07/2018	Monday	140	3007112	07:10:00	40:41	09:11:00	07:05:00	46		Elective	IN
		General Surgeon	1				1	30/07/2018	Monday	141	3007113	07:15:00	40:57	09:46:00	07:10:00	15		Elective	OUT
		General Surgeon	1				1	30/07/2018	Monday	142	3007114	07:20:00	40:59	10:00:00	07:15:00	19		Elective	OUT
General Surgeon		General Surgeon	1				1	30/07/2018	Monday	142	3007114	11:45:00	40:05	12:25:00	11:45:00	53		Elective	IN
		General Surgeon	1				1	30/07/2018	Monday	142	3007114	12:35:00	40:08	13:15:00	12:35:00	382		Elective	OUT
THEATRE 2																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	General Surgeon	1				2	30/07/2018	Monday	138	3007111	07:00:00	40:50	08:40:50	07:05:00	100		Non-Elective	OUT
		Obstetrics and Gynaecology	2				2	30/07/2018	Monday	144	3007114	07:05:00	40:43	09:12:00	07:05:00	24		Non-Elective	OUT
		General Surgeon	2				2	30/07/2018	Monday	144	3007114	07:10:00	40:52	09:24:00	07:10:00	21		Non-Elective	OUT
		General Surgeon	2				2	30/07/2018	Monday	144	3007114	07:15:00	40:67	09:27:00	07:15:00	25		Non-Elective	OUT
		Obstetrics and Gynaecology	2				2	30/07/2018	Monday	144	3007114	07:20:00	40:69	09:32:00	07:20:00	26		Non-Elective	OUT
Overtime		Obstetrics and Gynaecology	4				2	30/07/2018	Monday	161	3007114	17:41:00	40:61	18:03:00	18:03:00	22		Non-Elective	IN
		Orthopedic	3				2	30/07/2018	Monday	152	3007114	17:41:00	40:83	20:16:00	17:41:00	131		Non-Elective	IN
		Obstetrics and Gynaecology	3				2	30/07/2018	Monday	152	3007114	20:16:00	41:16	21:28:00	20:16:00	73		Non-Elective	IN
		Obstetrics and Gynaecology	3				2	30/07/2018	Monday	152	3007114	21:28:00	41:16	22:40:00	21:28:00	73		Non-Elective	IN
		Obstetrics and Gynaecology	3				2	30/07/2018	Monday	152	3007114	22:40:00	41:26	23:53:00	22:40:00	73		Non-Elective	IN
THEATRE 3																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon	2				3	30/07/2018	Monday	145	3007111	07:00:00	40:30	07:55:00	07:05:00	55		Elective	OUT
		General Surgeon	2				3	30/07/2018	Monday	145	3007111	07:55:00	40:75	09:24:00	08:00:00	87		Elective	IN
		General Surgeon	2				3	30/07/2018	Monday	146	3007112	09:24:00	40:64	10:03:00	09:24:00	36		Elective	IN
		General Surgeon	2				3	30/07/2018	Monday	147	3007113	10:03:00	40:51	10:50:00	10:03:00	7		Elective	OUT
		General Surgeon	2				3	30/07/2018	Monday	147	3007113	10:50:00	40:51	12:02:00	10:50:00	112		Elective	IN
General Surgeon		General Surgeon	2				3	30/07/2018	Monday	148	3007114	12:02:00	40:58	13:00:00	12:02:00	46		Elective	OUT
		General Surgeon	2				3	30/07/2018	Monday	148	3007114	13:00:00	40:88	13:50:00	13:00:00	352		Elective	OUT
THEATRE 4																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopedic	07:00	Orthopedic	3				4	30/07/2018	Monday	149	3007111	07:00:00	40:55	09:17:00	07:05:00	102		Elective	IN
		Orthopedic	3				4	30/07/2018	Monday	153	3007111	09:17:00	40:67	10:01:00	09:17:00	44		Elective	IN
		Orthopedic	3				4	30/07/2018	Monday	153	3007112	10:01:00	40:71	11:11:00	10:01:00	20		Elective	IN
		Orthopedic	3				4	30/07/2018	Monday	153	3007113	11:11:00	40:61	11:50:00	11:11:00	39		Elective	IN
		Orthopedic	3				4	30/07/2018	Monday	151	3007113	11:50:00	40:91	13:40:00	11:50:00	9		Elective	IN
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology	4				4	30/07/2018	Monday	150	3007111	13:00:00	40:00	13:40:00	13:00:00	80		Elective	OUT
		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	150	3007111	13:40:00	40:60	14:20:00	13:40:00	29		Elective	OUT
		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	150	3007111	14:20:00	40:60	15:00:00	14:20:00	31		Elective	IN
		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	156	3007114	14:00:00	40:73	14:40:00	14:00:00	31		Elective	IN
		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	157	3007115	14:40:00	40:86	15:22:00	14:40:00	36		Elective	IN
Obstetrics and Gynaecology		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	158	3007116	15:22:00	40:82	16:05:00	15:22:00	33		Elective	IN
Obstetrics and Gynaecology		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	159	3007117	16:05:00	40:51	16:50:00	16:05:00	20		Elective	IN
Obstetrics and Gynaecology		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	160	3007118	16:50:00	40:78	17:30:00	16:50:00	40		Elective	OUT
		Obstetrics and Gynaecology	4				4	30/07/2018	Monday	160	3007118	17:30:00	40:87	18:00:00	17:30:00	30		Elective	OUT

31-Jul																		
THEATRE 1																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non- Elective	IN/OUT OF USE
Orthopaedic	07.00	Orthopaedic					31.07.2018	Tuesday	352	31.08.111	07:50:00	41:50	08:30:00	41:50	01:50:00	118	Elective	IN
		Orthopaedic					31.07.2018	Tuesday	358	31.08.112	08:35:00	41:50	09:10:00	41:50	00:35:00	9	Elective	OUT
		Orthopaedic					31.07.2018	Tuesday	358	31.08.112	09:25:00	41:50	09:50:00	41:50	00:25:00	8	Elective	OUT
		Orthopaedic					31.07.2018	Tuesday	358	31.08.111	09:35:00	41:50	10:00:00	41:50	00:35:00	9	Elective	IN
Orthopaedic	16.00	Orthopaedic					31.07.2018	Tuesday	358	31.08.114	12:50:00	42:50	13:30:00	42:50	00:40:00	9	Elective	OUT
		Orthopaedic					31.07.2018	Tuesday	358	31.08.114	13:35:00	42:50	14:00:00	42:50	00:35:00	19	Elective	IN
		Orthopaedic					31.07.2018	Tuesday	358	31.08.114	14:25:00	42:50	14:50:00	42:50	00:25:00	25	Elective	OUT
		Orthopaedic					31.07.2018	Tuesday	358	31.08.114	15:15:00	42:50	15:50:00	42:50	00:35:00	180	Elective	OUT
THEATRE 2																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non- Elective	IN/OUT OF USE
General Surgery	07.00	General Surgery					31.07.2018	Tuesday	357	31.08.111	07:50:00	41:50	08:30:00	42:05	05:05:00	305	Elective	OUT
		General Surgery					31.07.2018	Tuesday	357	31.08.112	08:35:00	42:05	09:00:00	42:05	00:35:00	151	Elective	IN
		General Surgery					31.07.2018	Tuesday	358	31.08.112	09:25:00	42:05	09:50:00	42:05	00:25:00	64	Non- Elective	IN
		General Surgery					31.07.2018	Tuesday	358	31.08.112	09:35:00	42:05	10:00:00	42:05	00:35:00	34	Non- Elective	OUT
Urology	Overtime	Urology	4				31.07.2018	Tuesday	358	31.08.114	09:11:00	42:50	19:35:00	42:51	00:24:00	24	Non- Elective	IN
		Urology	4				31.07.2018	Tuesday	358	31.08.114	09:45:00	42:52	22:31:00	42:53	00:30:00	158	Non- Elective	IN
THEATRE 3																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non- Elective	IN/OUT OF USE
Orthopaedic	07.00	Orthopaedic					31.07.2018	Tuesday	358	31.08.111	07:50:00	41:50	08:30:00	41:50	01:35:00	71	Elective	IN
		Orthopaedic					31.07.2018	Tuesday	358	31.08.111	08:11:00	41:53	08:39:00	41:59	00:26:00	6	Elective	OUT
		Orthopaedic					31.07.2018	Tuesday	358	31.08.112	08:15:00	41:59	09:45:00	41:55	00:35:00	26	Elective	OUT
		Orthopaedic					31.07.2018	Tuesday	358	31.08.112	09:25:00	41:59	11:07:00	42:07	00:38:00	8	Elective	OUT
Orthopaedic	19.00	Orthopaedic					31.07.2018	Tuesday	357	31.08.114	11:07:00	42:07	12:44:00	42:04	01:37:00	97	Elective	IN
		Orthopaedic					31.07.2018	Tuesday	357	31.08.114	12:44:00	42:04	12:53:00	42:13	00:09:00	9	Elective	OUT
		Orthopaedic					31.07.2018	Tuesday	357	31.08.115	12:53:00	42:13	14:02:00	42:13	00:19:00	20	Elective	IN
		Orthopaedic					31.07.2018	Tuesday	357	31.08.115	14:53:00	42:13	16:00:00	42:10	00:57:00	297	Elective	OUT
THEATRE 4																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non- Elective	IN/OUT OF USE
Obstetrics and Gynaecology	07.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	07:50:00	41:50	07:57:00	41:57	00:17:00	17	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	08:11:00	41:57	08:00:00	41:50	00:43:00	43	Elective	IN
		Obstetrics and Gynaecology	2				31.07.2018	Tuesday	358	31.08.111	08:50:00	41:50	09:00:00	41:50	00:10:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	09:35:00	41:50	09:35:00	41:50	00:00:00	1	Elective	IN
Obstetrics and Gynaecology	13.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.112	08:35:00	41:52	09:35:00	41:52	00:40:00	60	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.113	09:25:00	41:52	10:52:00	41:52	01:00:00	60	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.113	10:52:00	41:52	11:41:00	42:01	00:09:00	69	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.114	11:41:00	42:01	11:45:00	42:03	00:02:00	2	Elective	OUT
Obstetrics and Gynaecology	19.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	357	31.08.114	12:50:00	42:03	13:30:00	42:03	00:40:00	39	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.115	13:15:00	42:03	13:50:00	42:15	00:35:00	42	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.115	13:15:00	42:38	13:57:00	42:17	00:21:00	21	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.115	13:37:00	42:37	13:50:00	42:38	00:01:00	1	Elective	OUT
Obstetrics and Gynaecology	19.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.117	15:57:00	42:17	15:05:00	42:16	00:06:00	65	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.118	15:55:00	42:16	15:34:00	42:14	00:32:00	32	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.119	15:34:00	42:14	15:34:00	42:14	00:00:00	2	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.119	15:38:00	42:16	16:02:00	42:16	00:24:00	26	Elective	IN
Obstetrics and Gynaecology	19.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.119	16:02:00	42:16	16:02:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.120	16:02:00	42:16	16:02:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:02:00	42:16	16:02:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:05:00	42:16	16:05:00	42:16	00:00:00	0	Elective	OUT
Obstetrics and Gynaecology	19.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:05:00	42:16	16:05:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:05:00	42:16	16:05:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:05:00	42:16	16:05:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:05:00	42:16	16:05:00	42:16	00:00:00	0	Elective	OUT
THEATRE 5																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non- Elective	IN/OUT OF USE
Obstetrics and Gynaecology	07.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	07:50:00	41:50	07:57:00	41:57	00:17:00	17	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	08:11:00	41:57	08:00:00	41:50	00:43:00	43	Elective	IN
		Obstetrics and Gynaecology	2				31.07.2018	Tuesday	358	31.08.111	08:50:00	41:50	09:00:00	41:50	00:10:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	09:35:00	41:50	09:35:00	41:50	00:00:00	1	Elective	IN
Obstetrics and Gynaecology	13.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.112	08:35:00	41:52	09:35:00	41:52	00:40:00	60	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.113	09:25:00	41:52	10:52:00	41:52	01:00:00	60	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.113	10:52:00	41:52	11:41:00	42:01	00:09:00	69	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.114	11:41:00	42:01	11:45:00	42:03	00:02:00	2	Elective	OUT
Obstetrics and Gynaecology	19.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	357	31.08.114	12:50:00	42:03	13:30:00	42:03	00:40:00	39	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.115	13:15:00	42:03	13:50:00	42:15	00:35:00	42	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.115	13:15:00	42:38	13:57:00	42:17	00:21:00	21	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.115	13:37:00	42:37	13:50:00	42:38	00:01:00	1	Elective	OUT
Obstetrics and Gynaecology	19.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.117	15:57:00	42:17	15:05:00	42:16	00:06:00	65	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.118	15:55:00	42:16	15:34:00	42:14	00:32:00	32	Elective	IN
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.119	15:34:00	42:14	15:34:00	42:14	00:00:00	2	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.119	15:38:00	42:16	16:02:00	42:16	00:24:00	26	Elective	IN
Obstetrics and Gynaecology	19.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.119	16:02:00	42:16	16:02:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.120	16:02:00	42:16	16:02:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:02:00	42:16	16:02:00	42:16	00:00:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.121	16:05:00	42:16	16:05:00	42:16	00:00:00	0	Elective	OUT
THEATRE 6																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non- Elective	IN/OUT OF USE
Obstetrics and Gynaecology	07.00	Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	07:50:00	41:50	07:57:00	41:57	00:17:00	17	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	08:11:00	41:57	08:00:00	41:50	00:43:00	43	Elective	IN
		Obstetrics and Gynaecology	2				31.07.2018	Tuesday	358	31.08.111	08:50:00	41:50	09:00:00	41:50	00:10:00	0	Elective	OUT
		Obstetrics and Gynaecology					31.07.2018	Tuesday	358	31.08.111	09:35:00	41:50	09:35:00	41:50	00:00:00	1	Elective	IN
Obstetrics and Gynaecology	13.00	Obstetrics and Gynaecology					3											

(iii) Excel Data: Hybrid Policy

02-Jul																		
THEATRE 1																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07.00	General Surgeon	2	NO	NO		01.06.2018	Monday	2	02077.2613	17:26:00	024	17:26:00	1046	10:26:00	026	Non-Elective	OUT
							01.06.2018	Monday	2	02077.2613	17:26:00	024	17:26:00	1074	09:26:00	28	Non-Elective	IN
							01.06.2018	Monday	2	02077.2613	17:26:00	024	18:10:00	1070	00:10:00	18	Non-Elective	IN
THEATRE 2																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07.00	General Surgeon	2	NO	NO		07.05.00	Monday	2	02077.2613	07:05:00	0	19:05:00	1150	12:05:00	720	Elective	OUT
							07.05.00	Monday	2	02077.2613	19:05:00	0	19:05:00	1150	12:05:00	720	Elective	OUT
							07.05.00	Monday	2	02077.2613	19:05:00	0	19:05:00	1150	12:05:00	720	Elective	OUT
THEATRE 3																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07.00	Orthopaedic	3	NO	NO		08.06.2018	Monday	3	02077.861	08:06:00	067	10:00:00	807	00:54:00	51	Elective	OUT
							08.06.2018	Monday	3	02077.861	10:06:00	807	10:00:00	807	00:54:00	51	Elective	IN
							08.06.2018	Monday	3	02077.861	10:06:00	807	10:00:00	807	00:54:00	51	Elective	OUT
Orthopaedic	07.00	Orthopaedic	3	NO	NO		02.06.2018	Monday	3	02077.861	02:06:00	314	19:02:00	1140	06:45:00	406	Elective	IN
							02.06.2018	Monday	3	02077.861	19:02:00	314	19:02:00	1140	06:45:00	406	Elective	OUT
							02.06.2018	Monday	3	02077.861	19:02:00	314	19:02:00	1140	06:45:00	406	Elective	OUT
THEATRE 4																		
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07.00	Orthopaedic	4	NO	NO		03.06.2018	Monday	4	02077.461	03:06:00	0	08:46:00	528	01:40:00	14	Elective	IN
							03.06.2018	Monday	4	02077.461	08:46:00	528	01:40:00	14	Elective	OUT		
							03.06.2018	Monday	4	02077.461	08:46:00	528	01:40:00	14	Elective	IN		
Orthopaedic	07.00	Orthopaedic	4	NO	NO		02.06.2018	Monday	4	02077.462	02:06:00	118	19:52:00	697	01:35:00	119	Elective	IN
							02.06.2018	Monday	4	02077.462	19:52:00	697	19:52:00	697	01:35:00	119	Elective	OUT
							02.06.2018	Monday	4	02077.462	19:52:00	697	19:52:00	697	01:35:00	119	Elective	OUT
Orthopaedic	07.00	Orthopaedic	4	NO	NO		03.06.2018	Monday	4	02077.463	03:06:00	213	12:52:00	752	00:40:00	24	Elective	IN
							03.06.2018	Monday	4	02077.463	12:52:00	752	12:52:00	752	00:40:00	24	Elective	OUT
							03.06.2018	Monday	4	02077.463	12:52:00	752	12:52:00	752	00:40:00	24	Elective	OUT
Obstetrics and Gynaecology	11.00	Obstetrics and Gynaecology	4	NO	NO		03.06.2018	Monday	4	02077.464	03:06:00	360	13:00:00	780	00:30:00	23	Elective	OUT
							03.06.2018	Monday	4	02077.464	13:00:00	780	13:00:00	780	00:30:00	23	Elective	IN
							03.06.2018	Monday	4	02077.464	13:00:00	780	13:00:00	780	00:30:00	23	Elective	OUT
Obstetrics and Gynaecology	11.00	Obstetrics and Gynaecology	4	NO	NO		03.06.2018	Monday	4	02077.465	03:06:00	406	15:16:00	908	00:52:00	32	Elective	IN
							03.06.2018	Monday	4	02077.465	15:16:00	908	15:16:00	908	00:52:00	32	Elective	OUT
							03.06.2018	Monday	4	02077.465	15:16:00	908	15:16:00	908	00:52:00	32	Elective	OUT
Obstetrics and Gynaecology	11.00	Obstetrics and Gynaecology	4	NO	NO		02.06.2018	Monday	4	02077.466	02:06:00	488	16:15:00	908	00:50:00	38	Elective	IN
							02.06.2018	Monday	4	02077.466	16:15:00	908	16:15:00	908	00:50:00	38	Elective	OUT
							02.06.2018	Monday	4	02077.466	16:15:00	908	16:15:00	908	00:50:00	38	Elective	OUT
Obstetrics and Gynaecology	11.00	Obstetrics and Gynaecology	4	NO	NO		03.06.2018	Monday	4	02077.467	03:06:00	589	19:00:00	1140	02:15:00	131	Elective	IN
							03.06.2018	Monday	4	02077.467	19:00:00	589	19:00:00	1140	02:15:00	131	Elective	OUT
							03.06.2018	Monday	4	02077.467	19:00:00	589	19:00:00	1140	02:15:00	131	Elective	OUT
In Service	07.28.00																	
Out of Service	08.00.00																	
Overtime	09.00.00																	
Utilisation	62.22%																	
In Service	07.28.00																	
Out of Service	08.00.00																	
Overtime	09.00.00																	
Utilisation	33.33%																	

05-Jul																		
THEATRE 1																		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Urology	07:00	Urology					1	05.07.2018	Thursday	45	0507111	07:00:00	08:18:00	480	01:18:00	78	-	IN
		Urology					1	05.07.2018	Thursday	46	0507112	08:18:00	09:36:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	46	0507112	09:36:00	10:54:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	46	0507112	10:54:00	12:12:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	47	0507113	12:12:00	13:30:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	47	0507113	13:30:00	14:48:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	48	0507114	14:48:00	16:06:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	49	0507115	16:06:00	17:24:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	50	0507116	17:24:00	18:42:00	480	01:18:00	78	Elective	OUT
		Urology					1	05.07.2018	Thursday	51	0507117	18:42:00	20:00:00	480	01:18:00	78	Elective	OUT
General Surgeon	07:00	General Surgeon					1	05.07.2018	Thursday	52	0507118	20:00:00	21:18:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	53	0507119	21:18:00	22:36:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	54	0507120	22:36:00	23:54:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	55	0507121	23:54:00	01:12:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	56	0507122	01:12:00	02:30:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	57	0507123	02:30:00	03:48:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	58	0507124	03:48:00	05:06:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	59	0507125	05:06:00	06:24:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	60	0507126	06:24:00	07:42:00	480	01:18:00	78	Elective	OUT
		General Surgeon					1	05.07.2018	Thursday	61	0507127	07:42:00	09:00:00	480	01:18:00	78	Elective	OUT
THEATRE 2																		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					2	05.07.2018	Thursday	54	0507121	08:18:00	09:36:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	55	0507122	09:36:00	10:54:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	56	0507123	10:54:00	12:12:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	57	0507124	12:12:00	13:30:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	58	0507125	13:30:00	14:48:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	59	0507126	14:48:00	16:06:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	60	0507127	16:06:00	17:24:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	61	0507128	17:24:00	18:42:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	62	0507129	18:42:00	20:00:00	480	01:18:00	78	Elective	OUT
		General Surgeon					2	05.07.2018	Thursday	63	0507130	20:00:00	21:18:00	480	01:18:00	78	Elective	OUT
THEATRE 3																		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	13:00	Orthopaedic					3	05.07.2018	Thursday	61	0507131	07:00:00	08:18:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	62	0507132	08:18:00	09:36:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	63	0507133	09:36:00	10:54:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	64	0507134	10:54:00	12:12:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	65	0507135	12:12:00	13:30:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	66	0507136	13:30:00	14:48:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	67	0507137	14:48:00	16:06:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	68	0507138	16:06:00	17:24:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	69	0507139	17:24:00	18:42:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					3	05.07.2018	Thursday	70	0507140	18:42:00	20:00:00	480	01:18:00	78	Elective	OUT
THEATRE 4																		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	13:00	Orthopaedic					4	05.07.2018	Thursday	65	0507135	13:30:00	14:48:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	66	0507136	14:48:00	16:06:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	67	0507137	16:06:00	17:24:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	68	0507138	17:24:00	18:42:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	69	0507139	18:42:00	20:00:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	70	0507140	20:00:00	21:18:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	71	0507141	21:18:00	22:36:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	72	0507142	22:36:00	23:54:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	73	0507143	23:54:00	01:12:00	480	01:18:00	78	Elective	OUT
		Orthopaedic					4	05.07.2018	Thursday	74	0507144	01:12:00	02:30:00	480	01:18:00	78	Elective	OUT

06-Jul																			
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Ear, Nose and Throat	07:00	13:00					1	06/07/2018	Friday	67	06071113	07:00:00	57:00	07:01:00	61:01	00:01:00	1	Elective	OUT
							1	06/07/2018	Friday	67	06071113	07:01:00	59:50	07:02:00	59:46	00:01:00	66	Elective	IN
							1	06/07/2018	Friday	67	06071113	07:02:00	60:00	07:03:00	60:03	00:01:00	70	Elective	OUT
13:00							1	06/07/2018	Friday	68	06071141	13:10:00	63:00	13:11:00	65:02	00:01:00	64	Non-Elective	IN
							1	06/07/2018	Friday	68	06071141	13:11:00	63:37	13:12:00	65:37	00:01:00	69	Non-Elective	OUT
							1	06/07/2018	Friday	71	06071242	13:15:00	63:37	13:16:00	65:37	00:01:00	235	Non-Elective	IN
			2	NO															
THEATRE 2																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	19:00					2	06/07/2018	Friday	69	06072113	07:00:00	57:00	07:01:00	62:01	00:01:00	118	Elective	OUT
							2	06/07/2018	Friday	69	06072113	07:01:00	58:38	07:02:00	64:18	00:01:00	120	Elective	IN
							2	06/07/2018	Friday	69	06072113	07:02:00	59:98	07:03:00	65:00	00:01:00	462	Elective	OUT
THEATRE 3																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					3	06/07/2018	Friday	70	06073141	07:00:00	58:26	07:01:00	63:26	00:01:00	66	Non-Elective	IN
		Obstetrics and Gynaecology					3	06/07/2018	Friday	70	06073141	07:01:00	58:26	07:02:00	63:26	00:01:00	70	Non-Elective	OUT
		Obstetrics and Gynaecology					3	06/07/2018	Friday	70	06073141	07:02:00	59:10	07:03:00	64:10	00:01:00	107	Non-Elective	IN
13:00		General Surgeon	2	NO			3	06/07/2018	Friday	70	06073141	13:10:00	65:01	13:11:00	65:04	00:01:00	69	Non-Elective	OUT
							3	06/07/2018	Friday	70	06073141	13:11:00	65:04	13:12:00	65:04	00:01:00	69	Non-Elective	IN
							3	06/07/2018	Friday	70	06073141	13:12:00	65:04	13:13:00	65:04	00:01:00	6	Non-Elective	OUT
19:00		Obstetrics					3	06/07/2018	Friday	70	06073141	19:00:00	61:20	19:01:00	65:09	00:01:00	10	Elective	IN
							3	06/07/2018	Friday	70	06073141	19:01:00	61:20	19:02:00	65:09	00:01:00	10	Elective	OUT
							3	06/07/2018	Friday	70	06073141	19:02:00	61:20	19:03:00	65:09	00:01:00	13	Elective	IN
07:00		Obstetrics					3	06/07/2018	Friday	70	06073141	07:00:00	60:20	07:01:00	65:09	00:01:00	136	Non-Elective	OUT
							3	06/07/2018	Friday	70	06073141	07:01:00	60:20	07:02:00	65:09	00:01:00	136	Non-Elective	IN
							3	06/07/2018	Friday	70	06073141	07:02:00	60:20	07:03:00	65:09	00:01:00	20	Non-Elective	OUT
Overtime		Obstetrics					3	06/07/2018	Friday	70	06073141	19:10:00	61:52	19:11:00	65:09	00:01:00	170	Non-Elective	IN
							3	06/07/2018	Friday	70	06073141	19:11:00	61:52	19:12:00	65:09	00:01:00	170	Non-Elective	OUT
							3	06/07/2018	Friday	70	06073141	19:12:00	61:52	19:13:00	65:09	00:01:00	170	Non-Elective	IN
THEATRE 4																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					4	06/07/2018	Friday	71	06074143	07:00:00	57:00	07:01:00	61:05	00:01:00	15	Elective	OUT
		Obstetrics and Gynaecology					4	06/07/2018	Friday	71	06074143	07:01:00	57:00	07:02:00	61:05	00:01:00	31	Elective	IN
		Obstetrics and Gynaecology					4	06/07/2018	Friday	71	06074143	07:02:00	58:08	07:03:00	62:01	00:01:00	45	Elective	OUT
13:00		Obstetrics and Gynaecology					4	06/07/2018	Friday	71	06074143	13:10:00	58:08	13:11:00	62:01	00:01:00	45	Elective	IN
							4	06/07/2018	Friday	71	06074143	13:11:00	58:08	13:12:00	62:01	00:01:00	34	Elective	OUT
							4	06/07/2018	Friday	71	06074143	13:12:00	59:20	13:13:00	62:01	00:01:00	200	Elective	IN
19:00							4	06/07/2018	Friday	71	06074143	19:00:00	61:20	19:01:00	65:09	00:01:00	200	Elective	OUT
							4	06/07/2018	Friday	71	06074143	19:01:00	61:20	19:02:00	65:09	00:01:00	360	Elective	IN
							4	06/07/2018	Friday	71	06074143	19:02:00	61:20	19:03:00	65:09	00:01:00	360	Elective	OUT
THEATRE 5																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					5	06/07/2018	Friday	72	06075144	07:00:00	58:26	07:01:00	63:26	00:01:00	66	Non-Elective	IN
		Obstetrics and Gynaecology					5	06/07/2018	Friday	72	06075144	07:01:00	58:26	07:02:00	63:26	00:01:00	70	Non-Elective	OUT
		Obstetrics and Gynaecology					5	06/07/2018	Friday	72	06075144	07:02:00	59:10	07:03:00	64:10	00:01:00	107	Non-Elective	IN
13:00		General Surgeon	2	NO			5	06/07/2018	Friday	72	06075144	13:10:00	65:01	13:11:00	65:04	00:01:00	69	Non-Elective	OUT
							5	06/07/2018	Friday	72	06075144	13:11:00	65:04	13:12:00	65:04	00:01:00	69	Non-Elective	IN
							5	06/07/2018	Friday	72	06075144	13:12:00	65:04	13:13:00	65:04	00:01:00	6	Non-Elective	OUT
19:00		Obstetrics					5	06/07/2018	Friday	72	06075144	19:00:00	61:20	19:01:00	65:09	00:01:00	10	Elective	IN
							5	06/07/2018	Friday	72	06075144	19:01:00	61:20	19:02:00	65:09	00:01:00	10	Elective	OUT
							5	06/07/2018	Friday	72	06075144	19:02:00	61:20	19:03:00	65:09	00:01:00	13	Elective	IN
Overtime		Obstetrics					5	06/07/2018	Friday	72	06075144	19:10:00	61:52	19:11:00	65:09	00:01:00	170	Non-Elective	IN
							5	06/07/2018	Friday	72	06075144	19:11:00	61:52	19:12:00	65:09	00:01:00	170	Non-Elective	OUT
							5	06/07/2018	Friday	72	06075144	19:12:00	61:52	19:13:00	65:09	00:01:00	170	Non-Elective	IN
THEATRE 6																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					6	06/07/2018	Friday	73	06076145	07:00:00	57:00	07:01:00	61:05	00:01:00	15	Elective	OUT
		Obstetrics and Gynaecology					6	06/07/2018	Friday	73	06076145	07:01:00	57:00	07:02:00	61:05	00:01:00	31	Elective	IN
		Obstetrics and Gynaecology					6	06/07/2018	Friday	73	06076145	07:02:00	58:08	07:03:00	62:01	00:01:00	45	Elective	OUT
13:00		Obstetrics and Gynaecology					6	06/07/2018	Friday	73	06076145	13:10:00	58:08	13:11:00	62:01	00:01:00	45	Elective	IN
							6	06/07/2018	Friday	73	06076145	13:11:00	58:08	13:12:00	62:01	00:01:00	34	Elective	OUT
							6	06/07/2018	Friday	73	06076145	13:12:00	59:20	13:13:00	62:01	00:01:00	200	Elective	IN
19:00							6	06/07/2018	Friday	73	06076145	19:00:00	61:20	19:01:00	65:09	00:01:00	200	Elective	OUT
							6	06/07/2018	Friday	73	06076145	19:01:00	61:20	19:02:00	65:09	00:01:00	360	Elective	IN
							6	06/07/2018	Friday	73	06076145	19:02:00	61:20	19:03:00	65:09	00:01:00	360	Elective	OUT
THEATRE 7																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					7	06/07/2018	Friday	74	06077146	07:00:00	57:00	07:01:00	61:05	00:01:00	15	Elective	OUT
		Obstetrics and Gynaecology					7	06/07/2018	Friday	74	06077146	07:01:00	57:00	07:02:00	61:05	00:01:00	31	Elective	IN
		Obstetrics and Gynaecology					7	06/07/2018	Friday	74	06077146	07:02:00	58:08	07:03:00	62:01	00:01:00	45	Elective	OUT
13:00		Obstetrics and Gynaecology					7	06/07/2018	Friday	74	06077146	13:10:00	58:08	13:11:00	62:01	00:01:00	45	Elective	IN
							7	06/07/2018	Friday	74	06077146	13:11:00	58:08	13:12:00	62:01	00:01:00	34	Elective	OUT
							7	06/07/2018	Friday	74	06077146	13:12:00	59:20	13:13:00	62:01	00:01:00	200	Elective	IN
19:00							7	06/07/2018	Friday	74	06077146	19:00:00	61:20	19:01:00	65:09	00:01:00	200	Elective	OUT
							7	06/07/2018	Friday	74	06077146	19:01:00	61:20	19:02:00	65:09	00:01:00	360	Elective	IN
							7	06/07/2018	Friday	74	06077146	19:02:00	61:20	19:03:00	65:09	00:01:00	360	Elective	OUT
THEATRE 8																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					8	06/07/2018	Friday	75	0								

09-Jul																			
THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					1	09.07.2018	Monday	81	0907181	07:00:00	30:00	07:30:00	10:01	00:31:00	21	-	OUT
		General Surgeon					2	09.07.2018	Monday	82	0907182	07:30:00	30:00	08:00:00	10:03	01:31:00	42	Non-Elective	IN
		General Surgeon					3	09.07.2018	Monday	83	0907183	08:00:00	30:00	08:30:00	10:07	02:00:00	9	-	OUT
		General Surgeon					4	09.07.2018	Monday	84	0907184	08:30:00	30:00	09:00:00	10:24	02:05:00	5	Non-Elective	OUT
General Surgeon	07:00	General Surgeon					1	09.07.2018	Monday	85	0907185	09:30:00	30:00	10:00:00	09:30	00:30:00	30	Non-Elective	IN
		General Surgeon					2	09.07.2018	Monday	86	0907186	10:00:00	30:00	10:30:00	09:50	00:30:00	50	-	OUT
		General Surgeon					3	09.07.2018	Monday	87	0907187	10:30:00	30:00	11:00:00	09:58	00:30:00	50	-	OUT
		General Surgeon					4	09.07.2018	Monday	88	0907188	11:00:00	30:00	11:30:00	10:08	00:30:00	52	Non-Elective	IN
Orthopaedic	07:00	Orthopaedic					1	09.07.2018	Monday	89	0907189	12:30:00	30:00	13:00:00	12:30	00:30:00	30	-	OUT
		Orthopaedic					2	09.07.2018	Monday	90	0907190	13:00:00	30:00	13:30:00	12:38	00:30:00	32	-	OUT
		Orthopaedic					3	09.07.2018	Monday	91	0907191	13:30:00	30:00	14:00:00	12:46	00:30:00	34	-	OUT
		Orthopaedic					4	09.07.2018	Monday	92	0907192	14:00:00	30:00	14:30:00	12:54	00:30:00	36	-	OUT
Overtime																			
THEATRE 2																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
		General Surgeon					2	09.07.2018	Monday	84	0908781	08:30:00	30:00	09:00:00	10:04	01:30:00	89	-	OUT
		General Surgeon					3	09.07.2018	Monday	85	0908782	09:00:00	30:00	09:30:00	10:06	00:07:00	7	-	OUT
		General Surgeon					4	09.07.2018	Monday	86	0908783	09:30:00	30:00	10:00:00	10:08	01:40:00	303	-	OUT
General Surgeon	07:00	General Surgeon					1	09.07.2018	Monday	87	0908784	10:00:00	30:00	10:30:00	10:10	00:30:00	30	-	OUT
		General Surgeon					2	09.07.2018	Monday	88	0908785	10:30:00	30:00	11:00:00	10:18	00:30:00	87	-	OUT
		General Surgeon					3	09.07.2018	Monday	89	0908786	11:00:00	30:00	11:30:00	10:26	00:07:00	7	-	OUT
		General Surgeon					4	09.07.2018	Monday	90	0908787	11:30:00	30:00	12:00:00	10:34	00:07:00	85	-	OUT
General Surgeon	07:00	General Surgeon					1	09.07.2018	Monday	91	0908788	12:00:00	30:00	12:30:00	10:42	00:07:00	83	-	OUT
		General Surgeon					2	09.07.2018	Monday	92	0908789	12:30:00	30:00	13:00:00	10:50	00:07:00	81	-	OUT
		General Surgeon					3	09.07.2018	Monday	93	0908790	13:00:00	30:00	13:30:00	10:58	00:07:00	79	-	OUT
		General Surgeon					4	09.07.2018	Monday	94	0908791	13:30:00	30:00	14:00:00	11:06	00:07:00	77	-	OUT
Overtime																			
THEATRE 3																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
		Orthopaedic					3	09.07.2018	Monday	91	0908791	07:00:00	30:00	08:30:00	10:09	01:30:00	119	-	OUT
		Orthopaedic					4	09.07.2018	Monday	92	0908792	08:00:00	30:00	09:30:00	10:17	01:30:00	88	-	OUT
		Orthopaedic					5	09.07.2018	Monday	93	0908793	09:00:00	30:00	10:30:00	10:25	01:30:00	80	-	OUT
Orthopaedic	07:00	Orthopaedic					1	09.07.2018	Monday	94	0908794	11:00:00	30:00	12:30:00	10:50	00:30:00	303	-	OUT
		Orthopaedic					2	09.07.2018	Monday	95	0908795	12:00:00	30:00	13:30:00	10:58	00:30:00	303	-	OUT
		Orthopaedic					3	09.07.2018	Monday	96	0908796	13:00:00	30:00	14:30:00	11:06	00:30:00	233	-	OUT
		Orthopaedic					4	09.07.2018	Monday	97	0908797	14:00:00	30:00	15:30:00	11:14	00:30:00	95	-	OUT
General Surgeon	07:00	General Surgeon	2	NO	NO		5	09.07.2018	Monday	98	0908798	15:00:00	30:00	16:30:00	11:22	00:30:00	61	Non-Elective	IN
		General Surgeon					6	09.07.2018	Monday	99	0908799	16:00:00	30:00	17:30:00	11:30	00:30:00	61	-	OUT
		General Surgeon					7	09.07.2018	Monday	100	0908800	17:00:00	30:00	18:30:00	11:38	00:30:00	61	-	OUT
		General Surgeon					8	09.07.2018	Monday	101	0908801	18:00:00	30:00	19:30:00	11:46	00:30:00	61	-	OUT
Overtime																			
THEATRE 4																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
		Orthopaedic					4	09.07.2018	Monday	95	0908795	07:30:00	30:00	08:00:00	10:14	00:30:00	34	-	OUT
		Orthopaedic					5	09.07.2018	Monday	96	0908796	08:00:00	30:00	08:30:00	10:22	00:30:00	92	-	OUT
		Orthopaedic					6	09.07.2018	Monday	97	0908797	08:30:00	30:00	09:00:00	10:30	00:30:00	45	-	OUT
Orthopaedic	13:00	Orthopaedic					1	09.07.2018	Monday	98	0908798	11:30:00	30:00	12:00:00	10:38	00:30:00	84	-	OUT
		Orthopaedic					2	09.07.2018	Monday	99	0908799	12:00:00	30:00	12:30:00	10:46	00:30:00	44	-	OUT
		Orthopaedic					3	09.07.2018	Monday	100	0908800	12:30:00	30:00	13:00:00	10:54	00:30:00	28	-	OUT
		Orthopaedic					4	09.07.2018	Monday	101	0908801	13:00:00	30:00	13:30:00	11:02	00:30:00	48	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					1	09.07.2018	Monday	102	0908802	13:30:00	30:00	14:00:00	11:10	00:30:00	34	-	OUT
		Obstetrics and Gynaecology					2	09.07.2018	Monday	103	0908803	14:00:00	30:00	14:30:00	11:18	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					3	09.07.2018	Monday	104	0908804	14:30:00	30:00	15:00:00	11:26	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					4	09.07.2018	Monday	105	0908805	15:00:00	30:00	15:30:00	11:34	00:30:00	28	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					1	09.07.2018	Monday	106	0908806	15:30:00	30:00	16:00:00	11:42	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					2	09.07.2018	Monday	107	0908807	16:00:00	30:00	16:30:00	11:50	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					3	09.07.2018	Monday	108	0908808	16:30:00	30:00	17:00:00	11:58	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					4	09.07.2018	Monday	109	0908809	17:00:00	30:00	17:30:00	12:06	00:30:00	28	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					1	09.07.2018	Monday	110	0908810	17:30:00	30:00	18:00:00	12:14	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					2	09.07.2018	Monday	111	0908811	18:00:00	30:00	18:30:00	12:22	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					3	09.07.2018	Monday	112	0908812	18:30:00	30:00	19:00:00	12:30	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					4	09.07.2018	Monday	113	0908813	19:00:00	30:00	19:30:00	12:38	00:30:00	28	-	OUT
Overtime																			
THEATRE 5																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
		Orthopaedic					4	09.07.2018	Monday	95	0908795	07:30:00	30:00	08:00:00	10:14	00:30:00	34	-	OUT
		Orthopaedic					5	09.07.2018	Monday	96	0908796	08:00:00	30:00	08:30:00	10:22	00:30:00	92	-	OUT
		Orthopaedic					6	09.07.2018	Monday	97	0908797	08:30:00	30:00	09:00:00	10:30	00:30:00	45	-	OUT
Orthopaedic	07:00	Orthopaedic					1	09.07.2018	Monday	98	0908798	11:30:00	30:00	12:00:00	10:38	00:30:00	84	-	OUT
		Orthopaedic					2	09.07.2018	Monday	99	0908799	12:00:00	30:00	12:30:00	10:46	00:30:00	44	-	OUT
		Orthopaedic					3	09.07.2018	Monday	100	0908800	12:30:00	30:00	13:00:00	10:54	00:30:00	28	-	OUT
		Orthopaedic					4	09.07.2018	Monday	101	0908801	13:00:00	30:00	13:30:00	11:02	00:30:00	48	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					1	09.07.2018	Monday	102	0908802	13:30:00	30:00	14:00:00	11:10	00:30:00	34	-	OUT
		Obstetrics and Gynaecology					2	09.07.2018	Monday	103	0908803	14:00:00	30:00	14:30:00	11:18	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					3	09.07.2018	Monday	104	0908804	14:30:00	30:00	15:00:00	11:26	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					4	09.07.2018	Monday	105	0908805	15:00:00	30:00	15:30:00	11:34	00:30:00	28	-	OUT
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					1	09.07.2018	Monday	106	0908806	15:30:00	30:00	16:00:00	11:42	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					2	09.07.2018	Monday	107	0908807	16:00:00	30:00	16:30:00	11:50	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					3	09.07.2018	Monday	108	0908808	16:30:00	30:00	17:00:00	11:58	00:30:00	28	-	OUT
		Obstetrics and Gynaecology					4	09.07.2018	Monday	109	0908809	17:00:00	30:00	17:30:00	12:06	00:30:00	28	-	OUT
Overtime																			
THEATRE 6																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
		Orthopaedic					4	09.07.2018	Monday	95	0908795	07:30:00	30:00	08:00:00	10:14	00:30:00	34	-	OUT
		Orthopaedic					5	09.07.2018	Monday	96	0908796	08:00:00	30:00	08:30:00	10:22	00:30:00	92	-	OUT
		Orthopaedic					6	09.07.2018	Monday	97	0908797	08:30:00	30:00	09:00:00	10:30	00:30:00	45	-	OUT
Orthopaedic	07:00	Orthopaedic					1</												

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THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Mowed From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Urology	07:00	Urology					1	12.09.2018	Thursday	123	12087113	07:50:00	14:00	14:13:00	14:03	07:13:00	433	-	OUT
							1	12.09.2018	Thursday	123	12087113	14:13:00	14:03	15:27:00	14:07	01:14:00	74	Elective	IN
		Urology					1	12.09.2018	Thursday	124	12087112	15:30:00	14:07	15:30:00	14:03	00:03:00	3	-	OUT
							1	12.09.2018	Thursday	124	12087112	15:30:00	14:03	16:25:00	14:05	00:55:00	55	Elective	IN
Urology	07:00	Urology					1	12.09.2018	Thursday	125	12087113	16:30:00	14:07	17:24:00	14:03	00:54:00	54	-	OUT
							1	12.09.2018	Thursday	125	12087113	16:30:00	14:07	17:24:00	14:03	00:54:00	54	Elective	IN
							1	12.09.2018	Thursday	126	12087114	17:25:00	14:03	17:24:00	14:03	00:00:00	3	-	OUT
							1	12.09.2018	Thursday	126	12087114	17:25:00	14:03	19:21:00	14:14	01:54:00	114	Elective	IN
Overtime	07:00	Urology					1	12.09.2018	Thursday	x	12087114	19:25:00	14:03	20:39:00	14:19	01:14:00	94	Non-Elective	IN
		Urology					1	12.09.2018	Thursday	x	12087112	20:40:00	14:03	21:15:00	14:19	00:45:00	45	Non-Elective	IN
		Urology					1	12.09.2018	Thursday	x	12087113	21:15:00	14:03	21:15:00	14:19	00:00:00	0	-	OUT
		Urology					1	12.09.2018	Thursday	x	12087114	21:15:00	14:03	21:54:00	14:19	00:39:00	39	Non-Elective	IN
Urology	07:00	Urology					1	12.09.2018	Thursday	x	12087115	21:00:00	14:03	21:34:00	14:19	00:34:00	34	Non-Elective	IN
							1	12.09.2018	Thursday	x	12087115	21:00:00	14:03	21:34:00	14:19	00:34:00	34	Non-Elective	IN
							1	12.09.2018	Thursday	x	12087115	21:00:00	14:03	21:34:00	14:19	00:34:00	34	Non-Elective	IN
							1	12.09.2018	Thursday	x	12087115	21:00:00	14:03	21:34:00	14:19	00:34:00	34	Non-Elective	IN
THEATRE 2																			
Physician Specialities	Block	Physician Specialities	Mowed From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					2	12.09.2018	Thursday			07:00:00	14:00	15:00:00	15:30	12:00:00	720	-	OUT
							2	12.09.2018	Thursday			15:00:00	14:00	15:00:00	15:30	00:00:00	0	-	OUT
							2	12.09.2018	Thursday			15:00:00	14:00	15:00:00	15:30	00:00:00	0	-	OUT
							2	12.09.2018	Thursday			15:00:00	14:00	15:00:00	15:30	00:00:00	0	-	OUT
THEATRE 3																			
Physician Specialities	Block	Physician Specialities	Mowed From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					3	12.09.2018	Thursday	130	12087113	08:00:00	14:00	08:05:00	14:06	01:05:00	66	-	OUT
							3	12.09.2018	Thursday	130	12087113	08:05:00	14:06	11:17:00	14:07	03:11:00	191	Elective	IN
							3	12.09.2018	Thursday	131	12087112	11:20:00	14:06	11:29:00	14:09	00:12:00	12	-	OUT
		Orthopaedic					3	12.09.2018	Thursday	131	12087112	11:29:00	14:06	14:00:00	14:09	00:30:00	300	Elective	IN
Orthopaedic	07:00	Orthopaedic					3	12.09.2018	Thursday			14:00:00	14:00	15:00:00	14:10	04:11:00	71	-	OUT
							3	12.09.2018	Thursday			15:00:00	14:00	15:00:00	14:10	00:00:00	0	-	OUT
							3	12.09.2018	Thursday			15:00:00	14:00	15:00:00	14:10	00:00:00	0	-	OUT
							3	12.09.2018	Thursday			15:00:00	14:00	15:00:00	14:10	00:00:00	0	-	OUT
THEATRE 4																			
Physician Specialities	Block	Physician Specialities	Mowed From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					4	12.09.2018	Thursday	127	12087211	07:00:00	14:00	07:00:00	14:09	00:00:00	9	-	OUT
							4	12.09.2018	Thursday	127	12087211	07:00:00	14:00	07:44:00	14:04	00:44:00	44	Non-Elective	IN
							4	12.09.2018	Thursday	128	12087212	08:21:00	14:05	08:21:00	14:05	00:00:00	0	-	OUT
							4	12.09.2018	Thursday	128	12087212	08:21:00	14:05	08:31:00	14:05	00:10:00	10	Non-Elective	IN
General Surgeon	07:00	General Surgeon					4	12.09.2018	Thursday	129	12087213	13:24:00	14:05	13:24:00	14:06	00:00:00	66	Non-Elective	OUT
							4	12.09.2018	Thursday	129	12087213	13:24:00	14:06	13:24:00	14:06	00:00:00	66	Non-Elective	OUT
							4	12.09.2018	Thursday	129	12087213	13:24:00	14:06	13:24:00	14:06	00:00:00	66	Non-Elective	OUT
		General Surgeon					4	12.09.2018	Thursday	x	12087214	21:01:00	14:04	21:33:00	14:13	01:32:00	92	Non-Elective	IN
Overtime	07:00	General Surgeon					4	12.09.2018	Thursday	x	12087214	21:01:00	14:04	21:33:00	14:13	01:32:00	92	Non-Elective	IN
							4	12.09.2018	Thursday	x	12087214	21:01:00	14:04	21:33:00	14:13	01:32:00	92	Non-Elective	IN
							4	12.09.2018	Thursday	x	12087214	21:01:00	14:04	21:33:00	14:13	01:32:00	92	Non-Elective	IN
							4	12.09.2018	Thursday	x	12087214	21:01:00	14:04	21:33:00	14:13	01:32:00	92	Non-Elective	IN

In Service	08:30:00		
Out of Service	12:00:00		
Overtime	54:00:00		
Utilization	38.06%		

In Service	09:30:00		
Out of Service	12:00:00		
Overtime	20:00:00		
Utilization	54.31%		

In Service	03:30:00		
Out of Service	11:00:00		
Overtime	01:30:00		
Utilization	16.79%		

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THEATRE 1																		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	Minutes	End	Duration	Minutes	Effective / Non-Effective	IN/OUT of USE
Ear, Nose and Throat	07:00	Obstetrics and Gynaecology	2	NO	NO	4	1	12.09.2018	Friday	136	13672611	07:00:00	1584	07:04:00	00:04:00	4	-	OUT
		Ear, Nose and Throat		YES	NO		1	12.09.2018	Friday	132	13671111	08:00:00	1590	08:03:00	00:03:00	3	Non-Effective	IN
		Ear, Nose and Throat					1	12.09.2018	Friday	133	13671112	08:03:00	1593	08:33:00	00:30:00	3	Effective	OUT
		Ear, Nose and Throat					1	12.09.2018	Friday	133	13671112	08:33:00	1593	08:57:00	00:24:00	24	Effective	IN
	13:00	Orthopaedic					1	12.09.2018	Friday	134	13671113	08:57:00	1597	09:00:00	00:03:00	3	-	OUT
		Orthopaedic					1	12.09.2018	Friday	134	13671113	09:00:00	1600	09:00:00	00:00:00	0	Non-Effective	OUT
		Orthopaedic					1	12.09.2018	Friday	135	13671114	09:00:00	1603	09:00:00	00:00:00	0	-	OUT
		Orthopaedic					1	12.09.2018	Friday	135	13671114	09:00:00	1603	09:18:00	00:18:00	18	Non-Effective	IN
		Orthopaedic					1	12.09.2018	Friday	135	13671114	09:18:00	1603	09:52:00	00:34:00	34	Non-Effective	OUT
		Orthopaedic					1	12.09.2018	Friday	136	13671115	09:52:00	1606	09:56:00	00:04:00	4	-	OUT
		Orthopaedic					1	12.09.2018	Friday	136	13671115	09:56:00	1606	09:56:00	00:00:00	0	-	OUT
		Orthopaedic					1	12.09.2018	Friday	137	13671116	09:56:00	1606	10:28:00	00:32:00	32	Effective	IN
	13:00	General Surgeon					2	12.09.2018	Friday	137	13671116	10:28:00	1606	10:31:00	00:03:00	3	Effective	IN
		General Surgeon					2	12.09.2018	Friday	138	13671117	10:31:00	1607	10:37:00	00:06:00	6	-	OUT
		General Surgeon					2	12.09.2018	Friday	138	13671117	10:37:00	1607	10:40:00	00:03:00	3	Effective	OUT
		General Surgeon					2	12.09.2018	Friday	139	13671118	10:40:00	1608	10:53:00	00:13:00	13	Effective	IN
		General Surgeon					2	12.09.2018	Friday	139	13671118	10:53:00	1608	10:56:00	00:03:00	3	Effective	OUT
		General Surgeon					2	12.09.2018	Friday	140	13671119	10:56:00	1609	11:00:00	00:04:00	4	-	OUT
		General Surgeon					2	12.09.2018	Friday	140	13671119	11:00:00	1612	11:08:00	00:08:00	8	Effective	IN
		General Surgeon					2	12.09.2018	Friday	141	13671120	11:08:00	1612	11:21:00	00:13:00	13	Effective	OUT
		General Surgeon					2	12.09.2018	Friday	141	13671120	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					2	12.09.2018	Friday	142	13671121	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					2	12.09.2018	Friday	142	13671121	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					2	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
	13:00	General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018	Friday	143	13671122	11:21:00	1612	11:21:00	00:00:00	0	-	OUT
		General Surgeon					3	12.09.2018</										

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THEATRE 1																					
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Urology	07:00	Orthopaedic					1	19/09/2018	Thursday	210	1908712	07:00:00	2480	14:16:00	2480	07:00:00	2480	Elective	IN		
		Orthopaedic					1	19/09/2018	Thursday	211	1908712	07:00:00	2480	15:08:00	2480	07:00:00	2480	Elective	OUT		
		Orthopaedic					1	19/09/2018	Thursday	211	1908712	07:00:00	2480	17:35:00	2516	02:28:00	348	Elective	OUT		
THEATRE 2																					
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
General Surgeon	07:00	General Surgeon					2	19/09/2018	Thursday	212	1908721	07:00:00	2480	07:51:00	2480	07:51:00	2451	02:51:00	31	Elective	IN
		General Surgeon					2	19/09/2018	Thursday	212	1908721	07:51:00	2451	08:50:00	2450	09:59:00	99	Elective	OUT		
		General Surgeon					2	19/09/2018	Thursday	213	1908722	08:50:00	2450	08:55:00	2450	09:50:00	5	Elective	IN		
		General Surgeon					2	19/09/2018	Thursday	213	1908722	08:55:00	2450	10:31:00	2461	01:36:00	96	Elective	OUT		
		General Surgeon					2	19/09/2018	Thursday	214	1908723	10:31:00	2461	10:54:00	2474	02:23:00	23	Elective	IN		
		General Surgeon					2	19/09/2018	Thursday	214	1908723	10:54:00	2461	11:05:00	2474	01:11:00	14	Elective	OUT		
		General Surgeon					2	19/09/2018	Thursday	215	1908724	11:05:00	2461	11:15:00	2465	00:10:00	4	Elective	IN		
		General Surgeon					2	19/09/2018	Thursday	215	1908724	11:15:00	2465	13:15:00	2485	02:00:00	32	Elective	OUT		
		General Surgeon					2	19/09/2018	Thursday	216	1908725	13:15:00	2485	13:47:00	2487	03:32:00	42	Elective	IN		
		General Surgeon					2	19/09/2018	Thursday	216	1908725	13:47:00	2487	15:52:00	2482	02:05:00	5	Elective	OUT		
		General Surgeon					2	19/09/2018	Thursday	217	1908726	15:52:00	2482	15:42:00	2502	01:54:00	110	Elective	IN		
		General Surgeon					2	19/09/2018	Thursday	217	1908726	15:42:00	2502	17:05:00	2506	01:23:00	12	Elective	OUT		
THEATRE 3																					
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	13:00	Orthopaedic					3	19/09/2018	Thursday	220	1908731	09:22:00	2482	10:22:00	2482	01:00:00	62	Elective	OUT		
		Orthopaedic					3	19/09/2018	Thursday	220	1908731	09:22:00	2482	11:07:00	2497	00:45:00	15	Elective	OUT		
		Orthopaedic					3	19/09/2018	Thursday	221	1908712	12:07:00	2497	14:05:00	2495	01:58:00	18	Elective	IN		
Orthopaedic	07:00	General Surgeon					3	19/09/2018	Thursday	222	1908741	14:05:00	2495	14:50:00	2490	00:45:00	45	Non-Elective	OUT		
		General Surgeon					3	19/09/2018	Thursday	222	1908741	14:05:00	2495	16:03:00	2503	01:13:00	79	Non-Elective	IN		
		General Surgeon					3	19/09/2018	Thursday	223	1908742	16:03:00	2503	17:05:00	2527	00:52:00	22	Non-Elective	OUT		
Orthopaedic	13:00	General Surgeon					3	19/09/2018	Thursday	224	1908743	17:05:00	2527	18:20:00	2530	00:55:00	25	Non-Elective	IN		
		General Surgeon					3	19/09/2018	Thursday	224	1908743	18:20:00	2530	20:27:00	2537	02:07:00	43	Non-Elective	OUT		
THEATRE 4																					
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	225	1908751	07:00:00	2480	10:38:00	2488	03:38:00	218	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	225	1908751	07:00:00	2480	11:23:00	2493	00:45:00	45	Non-Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	225	1908751	07:00:00	2480	11:23:00	2493	00:45:00	45	Non-Elective	OUT		
Orthopaedic	07:00	Orthopaedic					4	19/09/2018	Thursday	226	1908761	13:00:00	2480	13:00:00	2480	03:37:00	97	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	226	1908761	13:00:00	2480	13:00:00	2480	03:37:00	97	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	226	1908761	13:00:00	2480	13:00:00	2480	03:37:00	97	Elective	IN		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	227	1908762	15:40:00	2505	15:40:00	2505	02:05:00	15	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	227	1908762	15:40:00	2505	16:37:00	2507	02:32:00	32	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	227	1908762	16:37:00	2507	19:00:00	2500	02:43:00	53	Elective	OUT		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00	Orthopaedic					4	19/09/2018	Thursday	228	1908771	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	228	1908771	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	228	1908771	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	229	1908781	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	229	1908781	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	229	1908781	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00	Orthopaedic					4	19/09/2018	Thursday	230	1908791	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	230	1908791	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	230	1908791	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	231	1908801	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	231	1908801	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	231	1908801	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00	Orthopaedic					4	19/09/2018	Thursday	232	1908811	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	232	1908811	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	232	1908811	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	233	1908821	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	233	1908821	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	233	1908821	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00	Orthopaedic					4	19/09/2018	Thursday	234	1908831	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	234	1908831	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	234	1908831	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	235	1908841	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	235	1908841	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	235	1908841	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00	Orthopaedic					4	19/09/2018	Thursday	236	1908851	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	236	1908851	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	236	1908851	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	237	1908861	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	237	1908861	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	237	1908861	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the Wk	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE		
Orthopaedic	07:00	Orthopaedic					4	19/09/2018	Thursday	238	1908871	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	238	1908871	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic					4	19/09/2018	Thursday	238	1908871	07:00:00	2480	07:00:00	2480	02:50:00	80	Elective	OUT		
Orthopaedic	13:00	Orthopaedic					4	19/09/2018	Thursday	239	1908881	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	OUT		
		Orthopaedic					4	19/09/2018	Thursday	239	1908881	13:00:00	2480	13:00:00	2480	02:50:00	80	Elective	IN		
		Orthopaedic			</																

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THEATRE 1																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					1	24.09.2018	Tue 08:00	263	26081711	08:40:00	31:06	08:40:00	31:06	00:09:00	3	Elective	OUT
		Orthopaedic					1	24.09.2018	Tue 08:00	264	26081712	08:40:00	31:06	08:40:00	31:06	00:09:00	3	Elective	IN
		Orthopaedic					1	24.09.2018	Tue 08:00	265	26081713	08:40:00	31:06	08:40:00	31:06	00:09:00	9	Elective	OUT
		Orthopaedic					1	24.09.2018	Tue 08:00	266	26081714	08:40:00	31:06	08:40:00	31:06	00:09:00	71	Elective	IN
General Surgeon	16:00	General Surgeon					1	24.09.2018	Tue 08:00	267	26081715	12:52:00	32:02	12:52:00	32:02	00:13:00	253	Non-Elective	OUT
		General Surgeon					1	24.09.2018	Tue 08:00	271	26081716	12:52:00	32:02	12:52:00	32:02	00:13:00	53	Non-Elective	IN
		General Surgeon					1	24.09.2018	Tue 08:00	272	26081717	12:52:00	32:02	12:52:00	32:02	00:17:00	17	Non-Elective	OUT
		General Surgeon					1	24.09.2018	Tue 08:00	273	26081718	12:52:00	32:02	12:52:00	32:02	00:17:00	58	Non-Elective	IN
THEATRE 2																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	07:00	General Surgeon					2	24.09.2018	Tue 08:00	267	26081711	07:58:00	31:08	07:58:00	31:08	00:08:00	100	Elective	OUT
		General Surgeon					2	24.09.2018	Tue 08:00	268	26081712	07:58:00	31:08	07:58:00	31:08	00:09:00	9	Elective	IN
		General Surgeon					2	24.09.2018	Tue 08:00	269	26081713	07:58:00	31:08	07:58:00	31:08	00:09:00	79	Elective	IN
		General Surgeon					2	24.09.2018	Tue 08:00	270	26081714	07:58:00	31:08	07:58:00	31:08	00:09:00	43	Elective	IN
General Surgeon	19:00	General Surgeon					2	24.09.2018	Tue 08:00	271	26081715	11:52:00	31:07	11:52:00	31:07	00:06:00	5	Elective	OUT
		General Surgeon					2	24.09.2018	Tue 08:00	272	26081716	11:52:00	31:07	11:52:00	31:07	00:06:00	25	Elective	IN
		General Surgeon					2	24.09.2018	Tue 08:00	273	26081717	11:52:00	31:07	11:52:00	31:07	00:06:00	398	Elective	OUT
		General Surgeon					2	24.09.2018	Tue 08:00	274	26081718	11:52:00	31:07	11:52:00	31:07	00:06:00	398	Elective	OUT
THEATRE 3																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					3	24.09.2018	Tue 08:00	275	26081721	07:37:00	31:07	07:37:00	31:07	00:05:00	5	Elective	OUT
		Orthopaedic					3	24.09.2018	Tue 08:00	276	26081722	07:37:00	31:07	07:37:00	31:07	00:05:00	75	Elective	IN
		Orthopaedic					3	24.09.2018	Tue 08:00	277	26081723	07:37:00	31:07	07:37:00	31:07	00:05:00	3	Elective	OUT
		Orthopaedic					3	24.09.2018	Tue 08:00	278	26081724	07:37:00	31:07	07:37:00	31:07	00:05:00	43	Elective	IN
Orthopaedic	19:00	Orthopaedic					3	24.09.2018	Tue 08:00	279	26081725	09:41:00	31:03	09:41:00	31:03	00:07:00	7	Elective	OUT
		Orthopaedic					3	24.09.2018	Tue 08:00	280	26081726	09:41:00	31:03	09:41:00	31:03	00:07:00	7	Elective	OUT
		Orthopaedic					3	24.09.2018	Tue 08:00	281	26081727	09:41:00	31:03	09:41:00	31:03	00:07:00	10	Elective	OUT
		Orthopaedic					3	24.09.2018	Tue 08:00	282	26081728	09:41:00	31:03	09:41:00	31:03	00:07:00	84	Elective	IN
THEATRE 4																			
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	279	26081721	07:30:00	31:06	07:30:00	31:06	00:02:00	12	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	280	26081722	07:30:00	31:06	07:30:00	31:06	00:02:00	2	Elective	IN
		Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	281	26081723	07:30:00	31:06	07:30:00	31:06	00:01:00	1	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	282	26081724	07:30:00	31:06	07:30:00	31:06	00:01:00	9	Elective	IN
Obstetrics and Gynaecology	13:00	Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	283	26081725	11:42:00	31:06	11:42:00	31:06	00:03:00	3	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	284	26081726	11:42:00	31:06	11:42:00	31:06	00:03:00	47	Elective	IN
		Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	285	26081727	11:42:00	31:06	11:42:00	31:06	00:05:00	5	Elective	OUT
		Obstetrics and Gynaecology					4	24.09.2018	Tue 08:00	286	26081728	11:42:00	31:06	11:42:00	31:06	00:05:00	5	Elective	OUT
Urology	19:00	Urology					4	24.09.2018	Tue 08:00	287	26081729	13:00:00	32:00	13:00:00	32:00	00:05:00	360	Elective	OUT
		Urology					4	24.09.2018	Tue 08:00	288	26081730	13:00:00	32:00	13:00:00	32:00	00:05:00	360	Elective	OUT
		Urology					4	24.09.2018	Tue 08:00	289	26081731	13:00:00	32:00	13:00:00	32:00	00:05:00	360	Elective	OUT
		Urology					4	24.09.2018	Tue 08:00	290	26081732	13:00:00	32:00	13:00:00	32:00	00:05:00	360	Elective	OUT

26-Jul														
THEATRE 1														
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	Day of the Week	Type	Patient ID	Start	End	
Unlikely	0700	Unlikely	1	26.09.2018	Thursday	34560	26.08.11	07:00:00	08:31:00	34571	08:31:00	09:15:00	111	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	09:21:00	10:00:00	34571	09:21:00	10:00:00	30	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	09:21:00	10:00:00	34571	09:21:00	10:00:00	8	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	09:21:00	10:00:00	34571	09:21:00	10:00:00	21	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	09:21:00	10:00:00	34571	09:21:00	10:00:00	17	
Unlikely	0700	Unlikely	1	26.09.2018	Thursday	34560	26.08.11	10:25:00	11:00:00	34571	10:25:00	11:00:00	8	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	10:25:00	11:00:00	34571	10:25:00	11:00:00	112	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	10:25:00	11:00:00	34571	10:25:00	11:00:00	16	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	10:25:00	11:00:00	34571	10:25:00	11:00:00	15	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	10:25:00	11:00:00	34571	10:25:00	11:00:00	34	
Unlikely	0700	Unlikely	1	26.09.2018	Thursday	34560	26.08.11	11:15:00	12:00:00	34571	11:15:00	12:00:00	34	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	11:15:00	12:00:00	34571	11:15:00	12:00:00	34	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	11:15:00	12:00:00	34571	11:15:00	12:00:00	34	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	11:15:00	12:00:00	34571	11:15:00	12:00:00	34	
		Unlikely	1	26.09.2018	Thursday	34560	26.08.11	11:15:00	12:00:00	34571	11:15:00	12:00:00	34	
Overtime														
THEATRE 2														
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>End</td>	Date	Day of the Week	Type	Patient ID	Start	End	
General Surgeon	0700	General Surgeon	2	26.09.2018	Thursday	34560	26.08.11	12:43:00	13:25:00	34571	12:43:00	13:25:00	42	
		General Surgeon	2	26.09.2018	Thursday	34560	26.08.11	12:43:00	13:25:00	34571	12:43:00	13:25:00	42	
		General Surgeon	2	26.09.2018	Thursday	34560	26.08.11	12:43:00	13:25:00	34571	12:43:00	13:25:00	42	
		General Surgeon	2	26.09.2018	Thursday	34560	26.08.11	12:43:00	13:25:00	34571	12:43:00	13:25:00	42	
		General Surgeon	2	26.09.2018	Thursday	34560	26.08.11	12:43:00	13:25:00	34571	12:43:00	13:25:00	42	
THEATRE 3														
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>End</td>	Date	Day of the Week	Type	Patient ID	Start	End	
Orthopedic	1100	Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	14:15:00	15:00:00	34571	14:15:00	15:00:00	11	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	14:15:00	15:00:00	34571	14:15:00	15:00:00	11	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	14:15:00	15:00:00	34571	14:15:00	15:00:00	11	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	14:15:00	15:00:00	34571	14:15:00	15:00:00	11	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	14:15:00	15:00:00	34571	14:15:00	15:00:00	11	
THEATRE 4														
Physician Specialities	Block	Physician Specialities	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre <td>Date</td> <td>Day of the Week</td> <td>Type</td> <td>Patient ID</td> <td>Start</td> <td>End</td>	Date	Day of the Week	Type	Patient ID	Start	End	
Orthopedic	1100	Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	15:15:00	16:00:00	34571	15:15:00	16:00:00	13	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	15:15:00	16:00:00	34571	15:15:00	16:00:00	13	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	15:15:00	16:00:00	34571	15:15:00	16:00:00	13	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	15:15:00	16:00:00	34571	15:15:00	16:00:00	13	
		Orthopedic	3	26.09.2018	Thursday	34560	26.08.11	15:15:00	16:00:00	34571	15:15:00	16:00:00	13	

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30-Jul												
THEATRE 1												
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Type	Patient ID	Start	Minutes	End
General Surgeon	07:00	General Surgeon	1			07:00:00	30.07.2018	Monday	30087142	07:00:00	40:30	07:40:30
		General Surgeon	1			07:40:30	30.07.2018	Monday	30087143	07:40:30	40:30	08:21:00
		General Surgeon	1			08:21:00	30.07.2018	Monday	30087144	08:21:00	40:30	09:01:30
		General Surgeon	1			09:01:30	30.07.2018	Monday	30087145	09:01:30	40:30	09:42:00
		General Surgeon	1			09:42:00	30.07.2018	Monday	30087146	09:42:00	40:30	10:22:30
		General Surgeon	1			10:22:30	30.07.2018	Monday	30087147	10:22:30	40:30	11:03:00
		General Surgeon	1			11:03:00	30.07.2018	Monday	30087148	11:03:00	40:30	11:43:30
		General Surgeon	1			11:43:30	30.07.2018	Monday	30087149	11:43:30	40:30	12:24:00
		General Surgeon	1			12:24:00	30.07.2018	Monday	30087150	12:24:00	40:30	13:04:30
		General Surgeon	1			13:04:30	30.07.2018	Monday	30087151	13:04:30	40:30	13:45:00
THEATRE 2												
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Type	Patient ID	Start	Minutes	End
General Surgeon	07:00	General Surgeon	2			07:00:00	30.07.2018	Monday	30087152	07:00:00	40:30	07:40:30
		General Surgeon	2			07:40:30	30.07.2018	Monday	30087153	07:40:30	40:30	08:21:00
		General Surgeon	2			08:21:00	30.07.2018	Monday	30087154	08:21:00	40:30	09:01:30
		General Surgeon	2			09:01:30	30.07.2018	Monday	30087155	09:01:30	40:30	09:42:00
		General Surgeon	2			09:42:00	30.07.2018	Monday	30087156	09:42:00	40:30	10:22:30
		General Surgeon	2			10:22:30	30.07.2018	Monday	30087157	10:22:30	40:30	11:03:00
		General Surgeon	2			11:03:00	30.07.2018	Monday	30087158	11:03:00	40:30	11:43:30
		General Surgeon	2			11:43:30	30.07.2018	Monday	30087159	11:43:30	40:30	12:24:00
		General Surgeon	2			12:24:00	30.07.2018	Monday	30087160	12:24:00	40:30	13:04:30
		General Surgeon	2			13:04:30	30.07.2018	Monday	30087161	13:04:30	40:30	13:45:00
THEATRE 3												
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Type	Patient ID	Start	Minutes	End
Orthopaedic	07:00	Orthopaedic	3			07:00:00	30.07.2018	Monday	30087162	07:00:00	40:30	07:40:30
		Orthopaedic	3			07:40:30	30.07.2018	Monday	30087163	07:40:30	40:30	08:21:00
		Orthopaedic	3			08:21:00	30.07.2018	Monday	30087164	08:21:00	40:30	09:01:30
		Orthopaedic	3			09:01:30	30.07.2018	Monday	30087165	09:01:30	40:30	09:42:00
		Orthopaedic	3			09:42:00	30.07.2018	Monday	30087166	09:42:00	40:30	10:22:30
		Orthopaedic	3			10:22:30	30.07.2018	Monday	30087167	10:22:30	40:30	11:03:00
		Orthopaedic	3			11:03:00	30.07.2018	Monday	30087168	11:03:00	40:30	11:43:30
		Orthopaedic	3			11:43:30	30.07.2018	Monday	30087169	11:43:30	40:30	12:24:00
		Orthopaedic	3			12:24:00	30.07.2018	Monday	30087170	12:24:00	40:30	13:04:30
		Orthopaedic	3			13:04:30	30.07.2018	Monday	30087171	13:04:30	40:30	13:45:00
THEATRE 4												
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Date	Type	Patient ID	Start	Minutes	End
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology	4			07:00:00	30.07.2018	Monday	30087172	07:00:00	40:30	07:40:30
		Obstetrics and Gynaecology	4			07:40:30	30.07.2018	Monday	30087173	07:40:30	40:30	08:21:00
		Obstetrics and Gynaecology	4			08:21:00	30.07.2018	Monday	30087174	08:21:00	40:30	09:01:30
		Obstetrics and Gynaecology	4			09:01:30	30.07.2018	Monday	30087175	09:01:30	40:30	09:42:00
		Obstetrics and Gynaecology	4			09:42:00	30.07.2018	Monday	30087176	09:42:00	40:30	10:22:30
		Obstetrics and Gynaecology	4			10:22:30	30.07.2018	Monday	30087177	10:22:30	40:30	11:03:00
		Obstetrics and Gynaecology	4			11:03:00	30.07.2018	Monday	30087178	11:03:00	40:30	11:43:30
		Obstetrics and Gynaecology	4			11:43:30	30.07.2018	Monday	30087179	11:43:30	40:30	12:24:00
		Obstetrics and Gynaecology	4			12:24:00	30.07.2018	Monday	30087180	12:24:00	40:30	13:04:30
		Obstetrics and Gynaecology	4			13:04:30	30.07.2018	Monday	30087181	13:04:30	40:30	13:45:00

31-Jul																			
THEATRE 1																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					1	31.07.2018	Tuesday	362	3108711	07:00:00	41:50	08:58:00	41:58	01:58:00	118	Elective	IN
		Orthopaedic					1	31.07.2018	Tuesday	363	3108712	07:00:00	41:58	09:00:00	41:58	00:02:00	9	Elective	OUT
		Orthopaedic					1	31.07.2018	Tuesday	364	3108713	07:00:00	41:58	09:02:00	41:58	00:02:00	8	Elective	OUT
		General Surgeon	2	YES	NO	4:00	1	31.07.2018	Tuesday	367	3108714	12:00:00	42:00	14:00:00	42:00	02:00:00	151	Non-Elective	IN
16:00	19:00	Orthopaedic					1	31.07.2018	Tuesday	365	3108715	16:00:00	42:00	18:00:00	42:00	02:00:00	59	Elective	IN
		Orthopaedic					1	31.07.2018	Tuesday	366	3108716	16:00:00	42:00	18:02:00	42:00	00:02:00	78	Elective	OUT
		General Surgeon	2	NO			1	31.07.2018	Tuesday	368	3108717	17:15:00	42:00	19:15:00	42:00	02:00:00	64	Non-Elective	IN
		General Surgeon					1	31.07.2018	Tuesday	369	3108718	17:15:00	42:00	19:00:00	42:00	03:00:00	180	Elective	OUT
THEATRE 2																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
General Surgeon	19:00	General Surgeon					2	31.07.2018	Tuesday	366	3108721	07:00:00	41:50	08:58:00	41:58	01:58:00	51	Elective	OUT
		General Surgeon					2	31.07.2018	Tuesday	367	3108722	07:00:00	41:59	09:00:00	42:00	00:01:00	62	Elective	OUT
		General Surgeon					2	31.07.2018	Tuesday	368	3108723	07:00:00	41:59	09:02:00	42:00	00:01:00	62	Elective	OUT
		General Surgeon					2	31.07.2018	Tuesday	369	3108724	07:00:00	41:59	09:04:00	42:00	00:01:00	62	Elective	OUT
THEATRE 3																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Orthopaedic	07:00	Orthopaedic					3	31.07.2018	Tuesday	369	3108731	07:00:00	41:50	08:58:00	41:58	01:58:00	73	Elective	IN
		Orthopaedic					3	31.07.2018	Tuesday	370	3108732	07:00:00	41:58	09:00:00	41:58	00:02:00	60	Elective	IN
		Orthopaedic					3	31.07.2018	Tuesday	371	3108733	07:00:00	41:58	09:02:00	41:58	00:02:00	26	Elective	OUT
		Orthopaedic					3	31.07.2018	Tuesday	372	3108734	07:00:00	41:59	09:04:00	41:59	01:14:00	74	Elective	IN
19:00	19:00	Orthopaedic					3	31.07.2018	Tuesday	373	3108735	17:00:00	42:00	19:00:00	42:00	02:00:00	8	Elective	OUT
		Orthopaedic					3	31.07.2018	Tuesday	374	3108736	17:00:00	42:00	19:02:00	42:00	00:02:00	8	Elective	OUT
		Orthopaedic					3	31.07.2018	Tuesday	375	3108737	17:00:00	42:00	19:04:00	42:00	00:02:00	9	Elective	OUT
		Orthopaedic					3	31.07.2018	Tuesday	376	3108738	17:00:00	42:00	19:06:00	42:00	00:02:00	70	Elective	IN
THEATRE 4																			
Physician Specialties	Block	Physician Specialties	Moved From	Time Delay	Overtime	Delay (Minutes)	Theatre	Date	of the W	Type	Patient ID	Start	Minutes	End	Minutes	Duration	Minutes	Elective / Non-Elective	IN/OUT of USE
Obstetrics and Gynaecology	07:00	Obstetrics and Gynaecology					4	31.07.2018	Tuesday	374	3108741	07:00:00	41:50	08:58:00	41:58	01:58:00	17	Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	375	3108742	07:00:00	41:58	09:00:00	41:58	00:02:00	1	Elective	OUT
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	376	3108743	07:00:00	41:58	09:02:00	41:58	00:02:00	202	Elective	OUT
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	377	3108744	07:00:00	41:58	09:04:00	41:58	00:02:00	2	Elective	OUT
13:00	13:00	Obstetrics and Gynaecology					4	31.07.2018	Tuesday	378	3108745	13:15:00	42:00	15:15:00	42:00	02:00:00	49	Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	379	3108746	13:15:00	42:00	15:17:00	42:00	00:01:00	1	Elective	OUT
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	380	3108747	13:15:00	42:00	15:19:00	42:00	00:01:00	21	Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	381	3108748	13:15:00	42:00	15:21:00	42:00	00:01:00	19	Elective	IN
19:00	19:00	Obstetrics and Gynaecology					4	31.07.2018	Tuesday	382	3108749	17:00:00	42:00	19:00:00	42:00	02:00:00	2	Elective	OUT
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	383	3108750	17:00:00	42:00	19:02:00	42:00	00:02:00	26	Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	384	3108751	17:00:00	42:00	19:04:00	42:00	00:01:00	114	Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	385	3108752	17:00:00	42:00	19:06:00	42:00	00:01:00	55	Elective	OUT
Urology	13:00	Urology					4	31.07.2018	Tuesday	386	3108753	13:15:00	42:00	15:15:00	42:00	02:00:00	32	Elective	IN
		Urology					4	31.07.2018	Tuesday	387	3108754	13:15:00	42:00	15:17:00	42:00	00:02:00	2	Elective	OUT
		Urology					4	31.07.2018	Tuesday	388	3108755	13:15:00	42:00	15:19:00	42:00	00:02:00	26	Elective	IN
		Urology					4	31.07.2018	Tuesday	389	3108756	13:15:00	42:00	15:21:00	42:00	00:02:00	114	Elective	IN
Overtime	Overtime	Obstetrics and Gynaecology					4	31.07.2018	Tuesday	390	3108757	17:00:00	42:00	19:00:00	42:00	02:00:00	24	Non-Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	391	3108758	17:00:00	42:00	19:02:00	42:00	00:02:00	24	Non-Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	392	3108759	17:00:00	42:00	19:04:00	42:00	00:02:00	159	Non-Elective	IN
		Obstetrics and Gynaecology					4	31.07.2018	Tuesday	393	3108760	17:00:00	42:00	19:06:00	42:00	00:02:00	159	Non-Elective	IN

Appendix G: Declaration of Language Editing



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DECLARATION OF LANGUAGE EDITING

I, Christina Maria Etrecia Terblanche, hereby declare that I edited the research study titled:

A decision model to support theatre allocation for non-elective patients in a private hospital

for **Chantelle du Plessis** for the purpose of submission as a postgraduate study for examination. Changes were indicated in track changes and implementation was left up to the author.

Regards,

CME Terblanche

Cum Laude Language Practitioners (CC)

SATI accr nr: 1001066

Registered with PEG