BSc Thesis Industrial Engineering and Management

OPTIMIZING EMERGENCY MEDICAL INVENTORY CONTROL USING AUTOMATED MACHINE LEARNING

UNIVERSITY OF TWENTE.





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Preface

Dear reader,

I am delighted to present this bachelor thesis, titled "*Optimizing Emergency Medical Inventory Control Using Automated Machine Learning*" which represents the thesis assignment of my bachelor's program in Industrial Engineering and Management at the University of Twente.

First and foremost, I would like to express my gratitude to my university supervisors, Dr. Amin Asadi and Dr. Patricia Rogetzer. Their expertise and support have been significant throughout this journey. Their suggestions and encouragement greatly improved the quality of this thesis. I am very grateful for their assistance in completing my bachelor's degree.

In addition, I would like to extend my sincere gratitude to L2R for providing me with the opportunity to collaborate with them, particularly to my company supervisors, Jan Stock and Nele Großfeld. Their belief in my capabilities and consistent motivation during my time at L2R have been exceptionally valuable. Their support in every aspect was crucial to the successful completion of this study.

I hope you enjoy reading my thesis!

Sincerely,

Beril Cosar



Management Summary

This research is conducted at Department of Medical Logistics (DML), an emergency service department responsible for distributing medical equipment and consumables in Germany. DML has observed frequent stockouts in their inventory which led to low customer satisfaction. These stockouts are primarily caused by inefficient inventory control strategies. The goal of this research is to increase the cycle service level (CSL) of products used in treating tracer diagnosis diseases, such as sepsis, brain injuries, and polytrauma, thereby reducing stockouts. Therefore, the research question which is aimed to be answered within this research is formulated as follows:

"How can the Department of Medical Logistics (DML), L2R's customer, optimize the inventory of medical products used in tracer diagnosis, particularly in emergency services, to ensure that their desired service levels are met?"

Thus, the research aims to develop new inventory control policies which increase the service levels of the selected products. The Managerial Problem-Solving Method (MPSM) by Heerkens and Van Winden (2021) is used to systematically address the problem. The research was conducted in several phases, including problem identification, current situation analysis, literature review, solution design, and recommendations.

Initially, the current situation in DML is analyzed. DML handles 455 different products, including medications, consumables, sets, accessories, and test equipment. Consumables make up 50% of the demand, while sets contribute to the smallest demand, at 1.69%. DML uses a Laboratory Information System (LIS) to manage inventory levels. Currently, orders are placed based on manual counts and gut feelings, leading to inefficiencies. To address this, DML plans to implement a Kanban card system to track stock levels and reorder points more accurately.

By means of a literature review, we explored various concepts which are beneficial when determining the optimal stock levels and reorder points while developing new inventory control policies. The literature suggest that the product classification methods are widely used when dealing with large number of items in the inventory. ABC analysis was identified as a suitable method for classifying products based on their importance. Beside this, various demand forecasting methods are reviewed to identify the most appropriate techniques for predicting demand.

Based on the insights gained from the literature review, an AutoGluon forecasting model was developed to predict future demand for products. The tool applied the time series methods such as ARIMA, Exponential Smoothing, and Croston's method which produced the values of demand for the upcoming year. Using the outcome of the tool, the products with their corresponding demands for the following year were categorized using the ABC analysis and new inventory policies were formulated. The Continuous Review Policy (r, Q) and the Periodic Review Policy (T, S) were applied to determine the optimal ordering quantities and reorder points. The costs associated with each policy were also analyzed to compare the performance of the policies. The results indicated that 90.83% of the products have a lower cost using the continuous policy, while the remaining 9.17% of the products have a lower cost using the periodic review policy. DML can choose to apply the recommendations provided within this research to further ensure that the desired service levels are met.



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List of Abbreviations

AIL: Average Inventory Levels ARIMA: Autoregressive Integrated Moving Average AutoML: Automated Machine Learning CSL: Cycle Service Level DML: Department of Medical Logistics EOQ: Economic Order Quantity ERP: Enterprise Resource Planning ETS: Error, Trend, Seasonality L2R: Learn to Rescue LIS: Laboratory Information System MAPE: Mean Absolute Percentage Error MPSM: Management Problem-Solving Method MSE: Mean Squared Error OUL: Order-Up-to-Level **ROP: Reorder Point** SES: Simple Exponential Smoothing SS: Safety Stock



1. INTRODUCTION

This chapter introduces the thesis assignment. Section 1.1 starts by introducing the company which this research is done for. Then, Section 1.2 identifies the problem within the company. Following that, Section 1.3 identifies the knowledge problems and the problem-solving approach. Finally, Section 1.4 discusses the research design which this thesis follows.

1.1 Company Information

L2R is a company based in Germany that was founded in 2012 and is the first online learning platform for emergency services. Their core business is to offer digital training and further education in emergency response. They also specialize in working with various customers to manage their supply chain through offering advice and support for increasing the effectiveness of emergency chain processes.

This thesis focusses on one of L2R's customers, the Department of Medical Logistics, who is referred to as DML due to confidentiality reasons. DML is an ambulance service operator which facilitates approximately semergency medical service missions in a year. Apart from this, they also handle the procurement and distribution of medical devices and consumables for ambulances. To ensure a smooth flow of the supplies, a total of 12 employees are working in the supply chain team and coordinating the distribution to ten different stations throughout the city of sector.

1.2 Problem Identification

This section identifies the core problem tackled within this research. The context of problem is described first, followed by the identification of the action problem. After the action problem is identified, a problem cluster is made, which identifies the core problem.

1.2.1 Problem context

Within the healthcare industry, meeting customer demand is crucial. It could be the difference between life and death for a patient. The problem with meeting demand is that DML do not know what their demand is. There are two types of demand, dependent and independent demand (Slack & Brandon-Jones, 2019). Dependent demand is known, since it is demand that depends on certain products to be finished or on certain factors. For example, during the COVID-19 pandemic, once the vaccine was developed, pharmaceutical companies knew that they need as many injections as they have planned vaccines for.

Conversely, independent demand is unpredictable, since it is not dependent on a certain factor. For example, before the COVID-19 pandemic, demand for emergency beds at hospitals was independent, as there was no virus that led people to the hospital. DML's demand for their products also follows independent demand, since it is unknown how many people need a certain type of medicine, and when they need it.



DML is currently distributing 455 different products used in the ambulances for the treatment paths. Of these 455 products, 120 are for tracer diagnosis. Products for tracer diagnosis are more crucial compared to to those used for diagnosing less severe diseases since tracer diagnosis diseases have high mortality rates. The examples of the diseases are traumatic brain injury, stroke, polytrauma, sepsis, myocardial infarction, and cardiac arrest. Moreover, DML indicated that they are not meeting demand for tracer diagnosis products, which is why they want these products to be the focus of this assignment. The different product types are discussed in Section 2.1.

For DML to ensure that the demand of the tracer diagnosis products is met, they should aim to always have the products available. However, to know how many products to have in stock, the demand should be known. But as mentioned, with independent demand, it is difficult to know the exact number of products to keep on hand. For this reason, a proper service level point should be met. Service level is the expected probability of not hitting a stock-out during the next replenishment cycle or the probability of not losing sales (Rãdãsanu, 2016). Suppliers in the healthcare sector should manage their inventory effectively to ensure that the service levels are maximized. However, from a business perspective, achieving high service levels may require high inventory holding costs, hence, there should be a balance between the two. Due to the nature of this sector, there is an inability to predict the future demand which complicates suppliers' tasks. Therefore, it is vital for suppliers to have accurate demand forecasting and optimal inventory policies to ensure a timely response to customer demands.

DML's current strategies for inventory management are not working effectively and they experience frequent stockouts, resulting in failure to meet the demand of the stations. They recently recognized this problem after blankets and aspirin were not in stock during the last winter period when they were urgently needed. The essence of the problem is that DML do not know the optimal ordering quantities and do not have strategies to forecast the future demand. Besides, DML do not use an automated system which can keep track of the inventory levels. The calculations on the current inventory levels are handled by an employee manually. The employee simply checks the amount of products on hand and makes decisions on the quantities to order for the next replenishment based on estimations. This approach clearly fails to fulfill the demand of the supplies and decreases the customer satisfaction. They aim to be able to estimate the future demand and determine the optimal ordering quantities based on that. In the face of the current problem, this research focuses specifically on optimizing the inventory management of products used in tracer diagnoses through the application of developing new inventory policies for DML.

1.2.2 Action Problem

Since the current supply levels of the tracer diagnosis products do not meet the demand, an interview was held with the DML management team to identify some measurements which led to this conclusion. As a result of the interview, DML indicated that they currently meet a 75% service level for their tracer diagnosis products. This means that there is a 25% probability that demand is not met per replenishment cycle. DML also stated that they have a target service level which they would like to reach for the tracer diagnosis products. After explaining to them the trade-off of having high



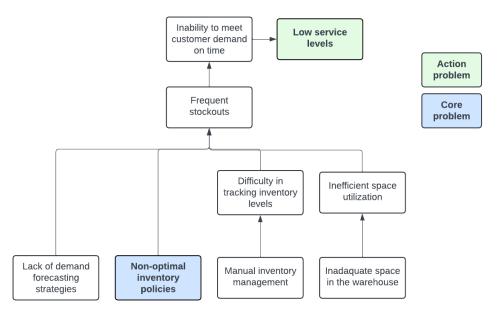
service levels with the inventory holding costs, DML decided that they want to classify their products based on the criticality of the product, the demand of the product, and the revenue made from the product. They want the products with the least demand, criticality, and revenue to have a service level of 90%, 95% for moderate, and 98% for the highest respectively.

Therefore, the **action problem**, which outlines the discrepancy between the norm and reality of DML's service levels, is formulated as follows:

The service levels of the tracer diagnosis products which DML provides to the ambulances should be increased from 75% to 90%, 95%, and 98%, depending on the criticality, demand, and revenue of the products.

Table A.1. in Appendix A expresses both the norm and reality in terms of variables with the components of the action problem.

1.2.3 Problem cluster





After identifying the action problem, the next step is to find out the core problem, which is leading to the action problem of DML. As an initial step, more interviews were conducted to gain insights into the problems leading to the action problem. Following these interviews, cause-and-effect relationships between the problems are identified by mapping them into a problem cluster (See Figure 1). The problems that do not have a direct cause can be defined as the potential core problems (Heerkens & Van Winden, 2021). As can be seen in Figure 1, the potential core problems are:

1. Lack of demand forecasting strategies



DML is struggling to forecast the future demand due to the stochastic demand in the medical products. Currently, they do not have a systematic approach to predict the future demand of the supplies and they cannot make estimations on the optimal product quantities to be ordered in the next replenishment cycle. Therefore, this results in ordering the wrong quantities and suffering with frequent stockouts. This problem is not selected as the core problem, but this research aims to address this problem within the solution for "non-optimal inventory policies" since developing optimal policies requires an application of demand forecasting methods.

2. Non-optimal inventory policies

Currently, DML does not have an optimal inventory policy since their employee who is responsible for ordering decisions does not follow a certain protocol. The amount of items ordered is based on a gut feeling, and so is the re-ordering point. Throughout the previous years, there have been many instances where the employee makes a purchase order to replenish the stock levels, and during the lead time for the items, they ran out of stock. Moreover, this problem directly impacts the action problem, since making their inventory policy more optimal, reduces the probability of a stockout which increases the service levels. This potential core problem is chosen as the **core problem** for this assignment since it has the biggest impact on the action problem, and it is also implementable within the given time frame.

3. Manual inventory management

As aforementioned, the current inventory is managed manually by an employee. This leads to the inability of monitoring the current inventory. Since there are many different types of products which need to be kept in stock, it is easy for the employee to make a mistake with managing the inventory. For these reasons, using an automated Enterprise Resource Planning (ERP) system would be beneficial for DML's inventory management. This problem is not selected as a core problem since obtaining an ERP system is very expensive which is a decision that must be taken by DML's financial and management teams, therefore it is out of scope for this research.

4. Inadequate space in the warehouse

There is only one warehouse which is used for storing all the supplies, and its space is very limited. DML need to store a large number of products, considering that they supply products to 12 stations across the city. The management team is currently considering the possibility of opening a second warehouse; however, the final decision has not been reached yet.

According to Heerkens & Van Winden (2021), if the problem cannot be influenced, it cannot be selected as the core problem. Therefore, this problem is not selected as the core problem as it cannot be influenced within the time frame of this research.



1.3 Knowledge Problems & Problem-Solving Approach

This section identifies the main research question, followed by breaking that question down into sub-research questions. Then, the problem-solving approach is discussed.

1.3.1 Research question

The research question is formulated based on the problem definition, action problem, and the chosen core problem, which are derived from the problem cluster.

The main **research question** is:

"How can the Department of Medical Logistics (DML), L2R's customer, optimize the inventory of medical products used in tracer diagnosis, particularly in emergency services, to ensure that their desired service levels are met?"

1.3.2 Sub-questions

With the research question defined, sub-questions are formulated to provide more detailed answers. Table 1 outlines these sub-research questions and indicates the corresponding chapters where they are addressed.

Table 1: Sub-research Questions

Curren	nt situation analysis	Chapter 2	
1.	1. What are the current strategies to store and manage the medical devices and consumables?		
Literat	ture Review	Chapter 3	
3.	 What are the recommended product classification methods in the literature? Which demand forecasting techniques exist in the literature? What are the recommended inventory policies in the literature? 		
Solutio	on Design	Chapter 4	
	5. How can the recommended inventory policies be applied to DML's inventory management?		
6. How can DML formulate effective inventory management strategies to optimize the inventory of tracer diagnosis supplies based on the findings from the literature and the application of the policies?			

1.3.3 Problem Solving Approach

As a research methodology, the Management Problem-Solving Method (MPSM), developed by Heerkens & Van Winden (2021) is used to systemically solve the action problem. As illustrated in Figure 2, the MPSM is a cycle that consists of seven steps.





Figure 2: MPSM Cycle

Initially, all the problems that are present in the company are identified, and the action problem is determined to address the discrepancy between norm and reality (See Section 1.2.2). Following that, the first phase of the MPSM, which is "problem identification" is presented in **Chapter 1** by developing a problem cluster based on cause-and-effect relationships between the problems, which enabled the identification of the core problem. **Chapter 1** also illustrates the second phase, "problem approach", by defining the research design. To answer the main research question and provide more specific direction to the research, sub-questions are defined with respect to the remaining phases of the MPSM.

Chapter 2 deals with the third phase of the MPSM, the problem analysis, since it focuses on analyzing the problem in more detail. The current way that DML manages their inventory is explained. This explanation is compiled after gaining insight through interviews with employees in the department.

Chapter 3 is related to fourth phase of the MPSM, which explores the recommended inventory methods for inventory optimization. This exploration is conducted through a systematic literature review to identify the relevant optimization approaches for the inventory management. Since all the products do not equally contribute to the revenue gained by DML, they are classified based on the usage value. Therefore, classifying the items provide more accurate forecasts of the future demand within each category of the product and benefit the decision making of optimal inventory levels. Finally, the forecasting methods which exist in the literature are executed through a systematic literature review in order to forecast the future demand.

Chapter 4 relates to the fifth and sixth phases of the MPSM; the most suitable methods for DML's inventory is chosen based on the findings of the third chapter. Firstly, a forecasting tool is made to forecast the future demand based on past data. Since the historical data includes all the 455 medical products used in emergency services, the data is filtered to extract the relevant information about tracer diagnosis supplies. Following that, the filtered historical data is analyzed to identify the distributions in demand and serve as the basis for demand forecasting when developing inventory policies. This is done to ensure that the inventory policies are tailored to DML's future expected demand.



After forecasting the demand, the results help in classifying the products based on the results of the literature review. Finally, inventory management policies are made using the product classification results and the forecasting tool. These policies are then also be evaluated based on total inventory costs for each tracer diagnosis product.

Finally, the seventh phase of the MPSM is explained in **Chapter 5**. The results from chapter 3 and chapter 4 are evaluated to provide advice for setting up inventory policies. The results of this evaluation aid in providing recommendations to DML. Then, a conclusion is made from this research, connecting the main research question with the findings.

1.4 Research design

After defining the research aim, the research design is addressed which provides a systematic direction for the research. The design includes the data collection and research methods used to answer the research question. Appropriate data collection methods are used for the operationalization of the key variables.

This research encompasses a mixed methods approach by collecting both qualitative and quantitative data. Sub-question 1 includes collecting qualitative data by conducting interviews with the employees to gain insights on current inventory management. Additionally, it analyzes the historical data to identify the demand distribution regarding the product types, which produces quantitative data. Moreover, chapter 3 collects qualitative data by conducting a systematic literature review to find out the existing inventory methods, demand forecasting techniques, and product classification methods. Next, the outcomes of the fourth chapter provide quantitative data through applying the methods and making calculations using Excel. Finally, the chapter also produces quantitative data when providing future recommendations, since the results of the costs are analyzed in order to come up with a recommendation. Table A.2 in the appendix gives an overview of the research design for each sub-question.

1.4.1 Research Scope & Limitations

To stay within the time frame of ten-weeks, the scope of this research is to increase the service levels solely for medical products which are required for tracer diagnosis diseases. There are many other products which are related to other types of diseases which are out of scope of this assignment. Moreover, since the term "inventory management" is very broad, this thesis only focuses on the replenishment strategies for DML's inventory.

The first limitation for this assignment is the 10-week constraint for the time. This limitation is due to the requirements from the University guidelines. Furthermore, another limitation to this assignment is not being able to test whether the recommendation to DML works in real life or not. For future research, a model can be developed to monitor the stock levels with an implementation of the inventory policies that are formulated, and this model can be implemented in real life.



1.4.2 Reliability and validity

Research cannot be valid without being reliable, which means that reliability is a result of validity in research (Golafshani, 2015). Noble and Smith (2015) state that validity is the integrity and application of the methods undertaken and the precision with which the findings accurately reflect the data, while reliability is concerned with the consistency of the analytical procedures.

This research takes into consideration the threats to both validity and reliability. Triangulation and member validation are two techniques used to ensure the validity of research. Triangulation is used by conducting both quantitative and qualitative research, in other words, a mixed-methods approach, which certifies the validity of the results. The members' validation technique is applied by sending the results of the interview to the participants for correction to validate them (Thornhill, 2019). On the other hand, to ensure reliable results from the interviews, participant error and participant bias are prevented by conducting the interviews online. This gives participants time to complete the interview and to avoid interaction with the interviewer. Besides interviews, reviewing literature also raises concerns in terms of validity and reliability. This time, validity and reliability are ensured by conducting a comprehensive systematic literature review using multiple search strings, databases, sources, and finding the articles that are appropriate to the research question. This is how precautions are taken against situations that threaten validity and reliability in the research, increasing the quality of the research.

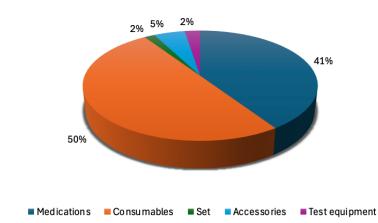


2. CURRENT SITUATION ANALYSIS

The second chapter of this research aims to analyze and explain the current situation regarding inventory management at DML. The goal of this chapter is to answer the following sub-research question: *"What are the current strategies to store and manage the medical devices and consumables?"* Section 2.1 starts by discussing the product portfolio at DML, concerning the tracer diagnosis products. Then, Section 2.2 discusses the distribution of the product demand while Section 2.3 explains the way in which the inventory is currently managed at DML. Finally, Section 2.4 concludes the second chapter.

2.1 Products

The products offered by DML include medications, accessories, and consumables used in the ambulances. There are total of 455 different products which DML is responsible to supply to the stations in the city of . As aforementioned, due to the broad range of the products, the scope of this research is limited to the supplies used in tracer diagnosis diseases. Therefore, there are total of 120 products which are required in tracer diagnosis and the focus of the research is developing policies for the selected products. These 120 tracer diagnosis products also include medications, consumables, sets, accessories, and test equipment. Medications are the medicines which come in a form of capsules or syrup like aspirin. Consumables are items which are consumed once and must be thrown away, such as masks or medical patches. Sets are the medications which come in sets, such as Urine Catheter Set. Then, accessories are items needed for check-ups, like stethoscopes. Finally, test equipment is equipment used for testing whether a patient has a disease or not, such as the I-STAT CG4, which measures sodium, potassium, chloride, etc. levels in a human. A pie chart depicted as Figure 3 below shows the product distribution with regard to the demand. Consumables have the highest contribution to the distribution with 50% while sets have the lowest with 1.69%. Besides gaining insights into the products categories, understanding the demand distributions for different product categories is crucial for accurately forecasting future demand. A detailed analysis of these distributions can help in selecting the most appropriate inventory management strategy. Section 2.2 discusses the demand distributions of the products.



Product Distributions

Figure 3: Distribution of Products



2.2 Distribution of demands

Understanding the distribution of product demand is critical for improving inventory management and ensuring smooth supply chain operations. Demand distribution shows how a product's demand fluctuates over time which impacts the inventory decisions. Shapiro-Wilk and Kolmogorov-Smirnov tests are commonly used to test the normality of data. Therefore, both tests are conducted to evaluate the normality of the data using SPSS Statistics.

The Shapiro-Wilk test determines how well the ordered and standardised sample quantiles fit the standard normal quantiles (King & Eckersley, 2019). Similarly, Kolmogorov-Smirnov test is used to determine whether a sample belongs to a specific distribution (Rehal, 2024). The null hypothesis for both tests states that the data are drawn from a normally distributed population. If the p-value is smaller than or equal to 0.05, the null hypothesis is rejected which means that the data does not follow normal distribution at a 95% confidence interval. Conversely, if the p-value is greater than 0.05, it indicates that data shows normality (Mishra et al., 2019).

According to the results from SPSS, 5.83% of the products do not follow normal distribution while the remaining 94.16% are normally distributed. It was observed that all products in the accessory, test equipment and set categories have p-values greater than 0.05 which indicates normal distribution. In contrast, five products in the consumable category namely Cor Patch, Hansaplast, Mini Spike, Larynxtubus and Magilltubus do not follow normal distribution as their p-values are less than 0.05.

Although the p-value of the Shapiro-Wilk test for Cor Patch is above 0.05, the p-value for the Kolmogorov-Smirnov test is below 0.05. Therefore, Corpatch is not normally distributed as both tests needed to indicate normality for a product to be considered normally distributed. Additonally, Ebrantil and NaCl 0.9 which are products in the medication category also do not follow normal distribution.

The outcomes of the tests for the products which are not normally distributed are shown in Table 2:

Products	Kolmogorov-Smirnov	Shapiro-Wilk
	(p-values)	(p-values)
Cor Patch easy pre-connected	.043	.444
Hansaplast	.008	.004
Mini Spike	.001	.001
Larynxtubus	.009	.001
Magilltubus	.001	.001
Ebrantil	.018	.006
NaCl 0.9	.007	.005

Table 2: SPSS Statistics Results

Based on the results, it can be stated that the aforementioned products are not normally distributed as the p-values for both tests are smaller than 0.05. Additionally, histogram and Q-Q plots are created using the SPPS software to visually evalute the normality of the



products. The Figure 4 is an example of the histogram for Hansaplast while Figure 5 illustrates the Q-Q plot of the product.

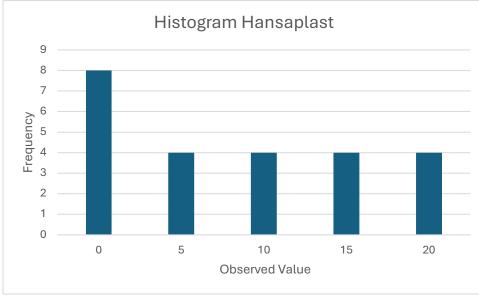


Figure 4: Histogram of Hansaplast

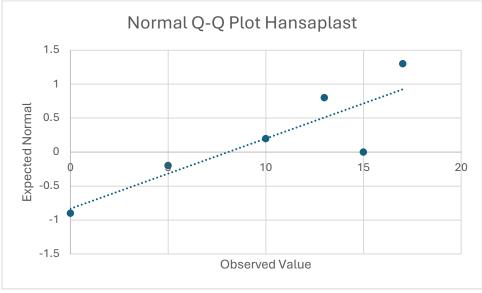


Figure 5: Q-Q Plot of Hansaplast

The histogram of Hansaplast does not show a symmetric distribution while the Q-Q plot has significant deviations at the tails. Both graphs implies that normality assumptions are not met which confirms the results of the Shapiro-Wilk and Kolmogorov-Smirnov tests. The graphs for the remaning products can be found in Appendix B.



We have conducted both tests for all the products offered by DML. It was observed all the products follow normal distribution except seven of them. However, for simplicity reasons, it is assumed that all the products show normality for this research.

2.3 Current Inventory Management in DML

This section describes the current inventory management process at DML by discussing the suppliers (Section 2.3.1), the inventory control methods (Section 2.3.2), and the delivery method at DML (Section 2.3.3).

2.3.1 Suppliers

There are two different paths for the supplies at DML, one for the medical equipment (sets, accessories, test equipment) and consumables, and the other for the medications:

- Medical Equipment and Consumables: Manufacturer \rightarrow Retailer \rightarrow DML.
- **Medications:** Manufacturer \rightarrow Regional Retailer \rightarrow Local Pharmacy \rightarrow DML.

The consumables are initially produced at the manufacturer then the produced goods are being sent to the retailer, and DML receives the supplies from the retailer. For the medications, retailers receive the products from the manufacturer, distribute them to the local pharmacies and then DML receives the supplies from the pharmacies (See Figure 6). Some products have framework agreements with the suppliers while some do not. The orders for products that have agreements are placed using a digital store system. Conversely, products without framework agreements are ordered via email or telephone. They indicated that each product takes approximately five working days to arrive at DML.

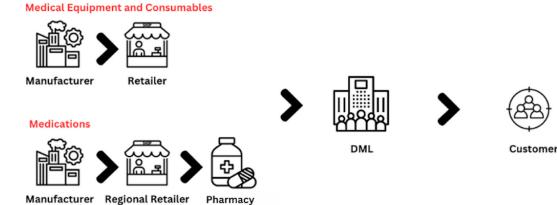


Figure 6: Visualization Map Supply Chain



2.3.2 Inventory control

DML uses a Laboratory Information System (LIS) software which is a healthcare software solution that is used to update and maintain the inventory levels. They are currently using this software to enter the new orders. As they do not have any ordering strategies, they decide on the reorder amounts based on a gut feeling. An employee simply counts the number of the products on hand and determines the order quantities that make sense to her.

However, they are aware that this system is not working well, and they are planning to implement a Kanban card system. These cards will be placed at the warehouse where the orders are stored. A prototype of the card can be seen in Figure 7.

ArtBez.: Beatr	nungsschlauch
ArtNr.: 132123 Barcode	Kanban ID: 4444 Barcode
Min / Maxbestandsmenge: 5 / 55	Bestellmenge bei Min.bestand: 50
Lieferant: Hans Peter Esser GmbH	Lagerposition: L5-3
second source: yx	FW 4
	IST - Bestand :
rure 7: Kanban Card System	

The Kanban card will include the barcode number, the current stock levels and the minimum stock levels. The idea is that every time an employee takes an item, they update the current stock value on the card. When they realize that the minimum stock levels are reached, they place the new order. Therefore, a new ordering policy to determine the reorder points and ordering quantities are required.

2.3.3 Delivery

DML is responsible for distributing products to ten different stations, which are the customers of DML, throughout the city of **b**. The orders from the stations are received following the milk run every day. Milk run is a delivery method which uses one vehicle to conduct several deliveries in roundtrips (Minh et al., 2020).

The red boxes in Figure 8 represent the stations in the city while the number ten marks the DML's location and, the remaining numbers present the locations that DML is responsible for supplying the emergency supplies to. DML does not use a digital system to receive the orders instead an employee goes through the milk run every day and collects the orders from the stations as paper-based order slips. At the end of the milk run, employee returns to DML and delivers the paper-based slips to the responsible person in the team.

Therefore, the products are picked from DML based on the orders of the previous day and documented in the LIS software using a hand scanner and barcode. The next day



employee goes through the milk run again and distributes the orders to the relevant stations and collects the new orders if there are.



Figure 8: Milk Run Distribution Map

2.4 Conclusion

This chapter provides a detailed analysis of the current inventory management strategies at DML, aiming to answer the sub-research question: *"What are the current strategies to store and manage the medical devices and consumables?"*

Firstly, the diverse product portfolio managed by DML is outlined, focusing on the 120 tracer diagnosis products. These products include medications, consumables, sets, accessories, and test equipment with consumables comprising the largest demand segment.

Then, the current inventory management practices are analyzed by highlighting the supplier pathways, delivery methods, and inventory control processes. The inefficiencies in the current system are identified such as the reliance on manual counts and gut feelings for reorder decisions, and the planned implementation of a Kanban card system to improve inventory accuracy is discussed.



3. LITERATURE REVIEW

Effective management of inventory in the healthcare industry for the healthcare products is essential to ensure that the patients receive the product at the right time. This chapter introduces relevant concepts which can increase the effectiveness of the inventory management. The aim of this chapter is to address the three following sub-research questions:

- 1. What are the recommended product classification methods in literature?
- 2. Which demand forecasting techniques exist in the literature?
- 3. What are the recommended inventory policies in the literature?

Section 3.1 discusses a product classification method that is commonly used to classify inventory items. Effective classification is crucial because it allows for better management of the diverse range of the products. Healthcare organizations can ensure that the different products are handled appropriately with their varying storage requirements by applying classification methods. Then, Section 3.2 introduces the different methods of demand forecasting that are essential to predict the future needs of healthcare products. Forecasting allows healthcare providers to determine the quantities of the products that are needed based on historical data and seasonal factors. Besides, accurate demand forecasting prevents both overstocking and understocking situations where overstocking can lead to wastage while in understocking it can result in life threatening shortages. Following that, Section 3.3 describes the usage of safety stock in inventory management. Safety stock ensures that essential products are always available when needed and acts as a buffer to handle unexpected demand or supply chain distributions. Section 3.4 focuses on inventory policies that helps determining the amount of stock should be kept on hand, the frequency of the order placement and the management of the inventory flow. Finally, Section 3.5 concludes the third chapter.

3.1 Product Classification

Product classification is widely used when dealing with a large number of items in the inventory as it is not feasible to set optimal stock levels for each item individually (Cohen et al., 1988). Therefore, the items are classified based on different factors and inventory control policies are applied to each item in a group. The literature suggests many classification methods such as ABC analysis which is used for better management of products in the inventory.

ABC Analysis

ABC analysis was developed by nineteenth-century Italian economist Vilfredo Pareto based on the Pareto Law. Initially, Pareto observed that "In many projects 20% of the total effort produces 80% of the total result" (Rusănescu, 2014). Later on, Pareto discovered that the economy has the same distribution, and this approach can be applied to many areas of life. Many studies confirmed that this principle is the most popular method to classify the inventory items. Figure 9 illustrates the visual representation of the ABC analysis results using Lorenz curve (Keskin & Ozkan, 2013).



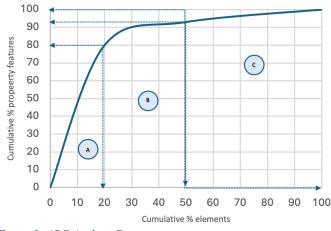


Figure 9: ABC Analysis Diagram

ABC analysis, or in other words "the 80/20 rule" ranks the items that have different levels of significance, since they should be handled differently (Rusănescu,2014). The products are categorized based on the annual consumption value which is calculated according to frequency of the use and their value. The formula for annual consumption value (C_i) is follows (Pandya & Thakkar, 2016):

$$C_i = D_i * p_i \quad (1)$$

where

$$D_i$$
 = annual demand

 p_i = item cost per unit

Based on the annual consumption values items are categorized into three groups: A-class items, B-class items and C-class items. A-class items have the highest annual consumption value which usually represent 80% of the value of an inventory and usually account for only 20% of the total inventory. B-class items are the inter class items with a medium annual consumption value. They represent 15% of total usage value of inventory with 30% of the total inventory. C-class items represent the lowest annual consumption value which accounts for 5% of the total usage value of the inventory, and usually account for around 50% of inventory items (Rusănescu, 2014).

By paying close attention to A class items in inventory, firms can minimize the inventory management costs. Even though B class items does not contribute as much as A-class items to the revenue, these items should be managed with formal inventory system through periodic inventory (Pandya & Thakkar, 2016). On the other hand, C class items have the lowest priority compared to other items and it is typically handled by minimal monitoring and control (Ali, 2023).



3.2 Demand Forecasting

Demand forecasting refers to predicting or estimating the need for a product or a component in a future time period (Bandeira et al., 2020). Businesses must be able to effectively analyze the historical data and make predictions on future demand based on that data. The information about the forecasted demand can be used to determine optimal inventory levels and managerial decisions (Bandeira et al., 2020). For example, in Guo et al. (2017), forecasting is used to support the ordering decisions of airplane spare parts while Yu et al. (2011) employs forecasting models to estimate demand of fashion products (Bandeira et al., 2020). In fact, accurate forecasting enables companies to meet customer demands on time, which increases customer satisfaction and service levels. Many companies are facing challenges when managing demand as it is difficult the estimate future consumer needs accurately (Fattah et al., 2018). The literature reveals that the survey conducted found over 74% of respondents reported poor forecasting accuracy as there are increasing major challenges to supply chain flexibility. The best companies tend to improve supply chain flexibility and responsiveness through improving forecasting accuracy. (Fattah et al., 2018).

Demand forecasting methods can be divided into quantitative and qualitative methods. Qualitative methods are applied when little data exists while quantitative methods are used when historical data exists. Quantitative methods can be applied when two conditions are satisfied: a) numerical information about the past is available, b) it is reasonable to assume that some aspects of the past patterns will continue into the future (Hyndman & Athanasopoulos, 2021). Figure 10 illustrates examples of both quantitative and qualitative forecasting methods (Deckert et al., 2022; Vagale et al., 2021).

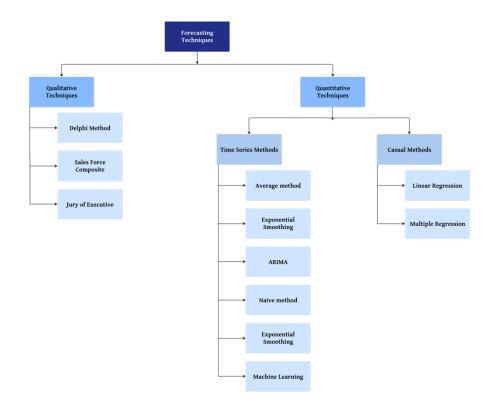


Figure 10: Forecasting tecniques



As can be seen from Figure 10, time series methods are an example of quantitative methods which forecasts the demand based on the historical data and assumes that the factors influencing the past will continue to influence in the future (Ivanov et al., 2021). This research focuses on time series analysis as it is the most appropriate according to the literature when future demand is related to the historical demand (Chopra et al., 2016).

3.2.1 Times Series Forecasting Using Automated Machine Learning (AutoML)

The massive amount of available data makes it difficult for businesses to develop accurate demand forecasting models. This complexity often requires machine learning background and expertise to effectively analyze the data and generate reliable predictions. As can be seen in Figure 10, time series forecasting methods can be integrated with machine learning approaches. Automated Machine Learning (AutoML) tools are transforming the field of machine learning by enabling users to build high-performing models for demand forecasting without extensive knowledge (Westergaard et al., 2024). In recent years, many features have emerged to AutoML tools which led to automate the model selection, hyperparameter optimization, and feature election processes (Alsharef et al., 2022). This approach has become an interesting topic for researchers and industries as it minimizes the human involvement (Westergaard et al., 2024). Consequently, the risk of human bias is reduced which leads to more accurate results.

Some automated forecasting models do not consider uncertainty in demand behavior which is a crucial factor in many practical applications. AutoGluon Time Series is an open source AutoML written in Python which closes this gap and generates times series forecasting in a few lines of code. (Shchur et al., 2023). Figure 11 illustrates the overall process of AutoGluon model development.

The first step is to create the data frame by loading the data set into Python, then clean the data to prepare it for forecasting. AutoGluon enables users to define the forecasting task such as prediction length, quantile levels to be predicted and evaluation metrics. Following that, it integrates a method that automates data preprocessing, fitting, and evaluating various models using cross-validation which is referred as fitting the predictor. During the evaluation of the models, it selects the one which results as the lowest forecasting error and produces a leaderboard showing the ranking between the applied methods (Shchur et al., 2023). While the overall development with AutoGluon automates most of the process, human involvement is necessary for data cleaning and defining the forecasting tasks. The remainder of the development is fully automated.



Figure 11: Steps For AutoGluon Model

AutoGluon uses several times series forecasting models which can be divided into two categories:

i) Baseline models (Section 3.2.2)



ii) Statistical models (Section 3.2.3)

Since all categories have a variety of models, the most used ones are explained in the upcoming sections.

3.2.2 Baseline models

A baseline model uses minimal historical data to make predictions in the future demand and serves as a benchmark to evaluate more complex forecasting methods (Erickson et al., 2020). **Average model** is a baseline model that computes the forecast by taking the mean (or "average") of the historical data. If we assume that the historical data can be denoted by y_1, \ldots, y_T , then we can compute the forecasts as:

$$\hat{y}_{T+h|T} = \bar{y} = (y_1 + \dots + y_T)/T$$
 (2)

where

h =forecast horizon

y =time series

The **naïve model** is another example of a baseline model which sets all the forecasts value to be the value of the last observation. This model only considers the *trend* component while disregarding the *seasonal* factor. As an extension to this model, the **naïve seasonal model** sets each forecast to be equal to the last observed value from the same season of the year which is useful for highly seasonal data. The following Equations (3) and (4) illustrate the computation of both the naïve model (3) and the naïve seasonal model (4):

$$\hat{y}_{T+h|T} = y_T (3)$$

 $\hat{y}_{T+h|T} = y_{T+h-m(k+1)} (4)$

where

 $\hat{y}_{T+h|T} y_T$ = the future values of the time series at time T + h

 y_T = observed value at time T

m = the seasonal period

k = number of seasonal cycles

3.2.3 Statistical models

A statistical model is used to capture the trend and seasonal components. The examples of the statistical models include **Exponential Smoothing** and **ARIMA** models.



In the late 1950s, exponential smoothing was proposed by Brown (1959), Holt (1957) and Winters (1960). This model forecasts the values with the weighted average of the past observations while the assigned weight decreases as the observation gets older. The simplest form of the model is **Simple Exponential Smoothing (SES)**. SES is appropriate to use when the demand has no *trend* or *seasonality*. It works with smoothing parameter α and the parameter α is determined based on the value with the smallest forecasting error (Ivanov et al., 2021). The idea of SES is to assign higher weights for current demand and lower weights to the previous demand:

$$\hat{y}_{t+1} = \hat{\alpha} y_T + (1 - \hat{\alpha}) \hat{y}_t (5)$$

As SES does not capture trends, Holt (1957) extended SES to allow forecasting of data with a trend (Hyndman & Athanasopoulos, 2021). When experiencing level and trend in demand but no seasonality, **Trend-corrected exponential Smoothing (Holt's Linear Model)** is suitable to use. In this case, we use two smoothing parameters α and β for level (l_t) and trend (b_t) respectively.

$$\hat{y}_{t+h|t} = l_t + hb_t (6)$$

$$l_t = \alpha y_t + (1 - \alpha)(l_{t-1} + b_{t-1}) (7)$$

$$b_t = \beta (l_t - l_{t-1}) + (1 - \beta)b_{t-1} (8)$$

As Holt's Linear model does not consider the seasonality factor, **Trend and Seasonality** corrected exponential smoothing (Holt-Winter's model) is used when the demand has all three characteristics: level, trend and seasonality. Since, a new factor (seasonality) is included, a new smoothing parameter γ is included. The trend formula is same as Holt's Linear Model which is shown in Equation 8. The Equation 9, 10 and 11 illustrates the formulas for Holt's Linear Model.

$$\hat{y}_{t+h|t} = l_t + hb_t + s_{t+h-m(k+1)} (9)$$

$$l_t = \alpha(y_t - s_{t-m}) + (1 - \alpha)(l_{t-1} + b_{t-1}) (10)$$

$$s_t = \gamma(y_t - l_{t-1} - b_{t-1}) + (1 - \gamma)s_{t-m} (11)$$

AutoGluon combines all the aforementioned exponential smoothing models into a framework known as ETS (Error, Trend, Seasonality) models.

In addition to ETS models, **ARIMA** (Autoregressive Integrated Moving Average) is a widely used statistical model which combines autoregressive process AR (p), integration I (d), and the moving average process MA (q). However, ARIMA does not use the original data series y_t but instead it uses the differenced series y_t' . Differencing is defined as the change between consecutive observations in the original series and it is needed to transform the non-stationary data into stationary. The formula for differencing is follows:



$$y_t' = y_t - y_{t-1} \,(12)$$

In general, the model is expressed as ARIMA (p, d, q) where the p is the order of the autoregressive part, d is the degree of first differencing involved and q is the order of the moving average part (Hyndman & Athanasopoulos, 2021). The general formula for ARIMA as follows:

$$\hat{y}_{t} = \mu + \phi_{1} y_{t-1} + \dots + \phi_{p} y_{t-p} - \theta_{1} e_{t-1} - \dots - \theta_{q} e_{t-q}$$
(13)

As can be seen from the Equation 13, the forecasted demand is equal to sum of constant C, past values of the differenced series $\phi_p y_{t-p}$, the mean of the differenced series μ , past error terms $\theta_q e_{t-q}$ and current error terms (Castellon, 2023).

AutoGluon uses autoARIMA which automatically selects the optimal ARIMA model parameters through statistical techniques such as Akaike Information Criterion (AIC). AIC is commonly used as a measure to determine the parameters of ARIMA model by trying to maximize the log likelihood (Hyndman & Athanasopoulos, 2021). The Equation 14 illustrates the formula for AIC.

$$AIC = -2\log(L) + 2(+p + q + k + 1) (14)$$

where

L = likelihood of the data

$$k = 1 if c \neq 0$$

 $k=0 \ if \ c \ = 0$

AutoARIMA aims to select the parameters that minimizes the AIC which means finding a model that provides a good fit. Since the selection of the parameters can be difficult to determine, it provides fast and effective solution for time series modelling (Castellon, 2023).

Statistical models for sparse data

In addition to baseline and statistical models, there are specific models which are used for intermittent demand data where the data has some periods with zero demand. The Croston's model is an example of statistical models which is applied when dealing with intermittent demand. This method was proposed by J.D.Croston in 1972 and later improved by Syntetos and Boylan (Castellon, 2023). The improved version is called Croston-SBA (Syntetos and Boylan Approximation). In particular, the model applies simple



exponential smoothing to both non-zero demand size Z'_t and the inter-arrival times. Therefore, the estimation of demand per period Y'_t can be derived by taking the ratio of those estimates (size/intervals). The idea is that the method updates forecast only after positive demand occurs. Thus, if there is a period where demand is zero, the method only counts the periods since the last positive demand (Xu et al., 2012). The formula for Croston-SBA is follows:

$$Z'_{t} = \begin{cases} Z'_{t-1} (15) & \text{if } Z_{t} = 0 \\ Z'_{t} = \alpha Z_{t} + (1 - \alpha) Z'_{t-1} (16) & \text{otherwise} \end{cases}$$
$$P'_{t} = \begin{cases} P'_{t-1} (17) & \text{if } Z_{t} = 0 \\ \alpha P_{t} + (1 - \alpha) P'_{t-1} (18) & \text{where } 0 < \alpha < 1 \end{cases}$$
$$Y'_{t} = (1 - \frac{\alpha}{2}) \frac{Z_{t'}}{P_{t'}} (19)$$

where

 Y'_t = Average demand per period Z_t = Actual demand at period Z'_t = Time between two positive demand P = Demand size forecast for next period P'_t = Forecast of demand interval α = Smoothing constant

3.2.5 Measures of Forecast Error

Before the application of the forecasting methods, validation is required as almost all the forecasting methods have errors in the predicted results (Khair et al., 2017). There are many measures of forecast error which are used to test the accuracy of the methods. One of the measures of forecast error is **Mean Squared Error (MSE)**, which measures the quadratic deviation of forecast and actual data using the following Equation (Ivanov et al., 2021):

$$MSE_n = \frac{1}{n} \sum_{t=1}^n E_t^2 \quad (20)$$

This method can be related to the variance of the forecast error, and it is estimated that the random component of demand has a mean of zero and a variance of MSE (Chopra et al., 2016). Beside this method, **Mean Absolute Percentage Error (MAPE)** is also used as a measure of forecast error which can be seen from Equation 21:

$$MAPE_n = \frac{\sum_{t=1}^n \left| \frac{E_T}{D_t} \right|^{100}}{n} \quad (21)$$

MAPE calculates the average absolute error as a percentage of demand (Chopra et al., 2016). It indicates the number of prediction errors compared to the real value (Khair et al., 2017). One problem which might occur using MAPE is that it divides the absolute error by the actual value. Thus, if the demand includes zero values, the MAPE is mathematically undefined.



3.3 Safety Inventory

Safety inventory (stock) is carried to satisfy demand that exceeds the amount forecasts (Winston & Goldberg, 2004). This approach is frequently used in inventory control in order to achieve desired product availability. Determining safety stocks is required to protect against many deviations such as delivery date variances, requirement variances, delivery quantity variances and inventory variances (Radasanu, 2016). Figure 12 summarizes the relationship among these deviations (Radasanu, 2016).

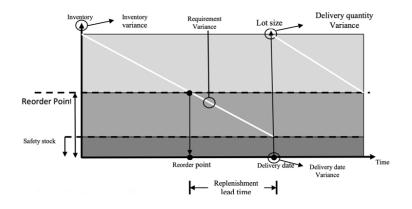


Figure 12: Safety Invetory Deviations (Radasanu, 2016).

According to Radasanu (2016), statistical functions can be used to calculate the safety stock levels with the target of achieving a specified service level. The relation between both terms is non-linear and the required safety stock level increases, as the level of service increases. This means that the cost of inventory increases along with the service level. The companies should consider this trade-off and set desired service levels accordingly. Rather than using fixed service factor for all products, the firm can assign different levels of service levels based on the product characteristic.

Furthermore, the safety inventories are also influenced by the implemented inventory policies which are explained in the upcoming section.

3.4 Continuous & Periodic Policies

A continuous review policy involves constantly monitoring inventory levels and placing orders when they fall below a predetermined reorder point (ROP). This approach uses the EOQ model to determine the optimal order size, ensuring that inventory is replenished efficiently and cost-effectively. This policy is referred as (r,Q) model where r represents the reorder point and Q signifies the fixed order quantity. Additionally, the demand is assumed to be normally distributed with mean D and standard deviation σ_D (Chopra et al., 2016). The formulas for EOQ, mean, standard deviation and ROP are follows:

$$EOQ = q = \left(\frac{2KE(D)}{h}\right)^{\frac{1}{2}} (22)$$

Mean during lead time $D_L = D * L$ (23)

Standard deviation during lead time = $\sigma_L = \sqrt{L}\sigma_D$ (24)



 $Safety \ stock = F_s^{-1}(CSL) * \sigma_L \ (25)$

Reorder point = $D_L + ss$ (26)

On the other hand, a periodic review policy involves checking inventory levels at regular, predetermined intervals. Orders are placed to replenish stock up to a specific order-up-to level (OUL) regardless of the current inventory position. This policy follows the (T,S) model which refers to fixed period T and order-up-to level S (Goltsos et al., 2022). Therefore, Equation (27), (28), (29) and (30) illustrates the formulas for periodic review policy parameters.

Mean during T + L periods = $D_{T+L} = (T + L)D$ (27)

Standard deviation during T + L periods = $\sigma_{T+L} = \sqrt{T + L} * \sigma_D$ (28)

Safety stock = $F_s^{-1}(CSL) * \sigma_{T+L}$ (29)

Order up to level = $D_{T+L} + ss(30)$

3.5 Conclusion

This chapter reviews literature in a systematic way, such that the literature can be applied into practice. The chapter starts by introducing the ABC analysis for product classification, then safety inventory, demand forecasting, and finally inventory policies. Within Chapter 4, products are categorized into A, B and C classes and service levels are assigned accordingly. Highest service levels are assigned to A class items while C class items have the lowest one. We ensured that most critical (A class) items receive higher safety stock levels by assigning different service levels to each item category. Chapter 4 applies the theory of demand forecasting from Section 3.2 to predict the future demand by using methods like time series analysis and AutoML tools such as AutoGluon. The time series methods integrated in AutoGluon which are AutoARIMA, Seasonal Naïve, Naïve, ETS and Croston are applied in Chapter 4 for accurate forecasting of the future demand. Following that, next chapter utilizes inventory policies which are mentioned in Section 3.4. The continuous and periodic review methods are applied based on EOQ models. These policies aim to optimize inventory levels and ensure product availability while minimizing costs. Thus, the policies provide parameters for making inventory management decisions such as safety stock, reorder point, etc.



4. SOLUTION DESIGN

The fourth chapter applies the theory reviewed in Chapter 3. In this chapter, the following two research questions are answered:

- 1. How can the recommended inventory policies be applied to DML's inventory management?
- 2. How can DML formulate effective inventory management strategies to optimize the inventory of tracer diagnosis supplies based on the findings from the literature and the application of the policies?

Firstly, Section 4.1 uses past demand data to create a forecasting tool which can forecast the data of the following year. Then, using the results of the forecasting tool, Section 4.2 categorizes the products using the ABC analysis. Following that, in Section 4.3, we come up with inventory policies for the products, based on the results of Sections 4.1 and 4.2. Then, Section 4.4 evaluates the inventory policies based on costs. Finally, Section 4.5 summarizes the fourth chapter.

4.1 Application of AutoGluon Forecasting model

To apply new inventory policies for the upcoming year, the demand for that period should be forecasted based on the past data. The demand cannot be forecasted manually since there are over 100 products. As previously mentioned in Section 3.2.1, an automated forecasting tool are applied using AutoGluon which can predict the future values of demand for the next year. This section details the development of this tool.

4.1.1 Input Data

The historical data is retrieved from the ISE software which is an ERP software DML uses to keep track of the inventory records. The data set included the daily and hourly demand of the products between the years of 2019 and 2022, the type of the product, and the name of the product. Since the results would be more accurate with more data points when forecasting the future demand, we wanted to generate data for 2023. Based on the results from Section 2.2, it is assumed that the demand follows normal distribution. The daily demand data between 2019-2022 for each product is added. Accordingly, the means and standard deviations of the products are calculated to generate random data from normal distribution (See Appendix C.1). The complete data set is then loaded into Python. After importing the file, the next step is to transform the data into a format suitable for a time series analysis. The first column of the historical data includes both the date and time of the order placement and named "timestamp".

The imported file reads the Date time objects as a string rather than a Date time object. In order to convert the string into Python Date time object, pd.to_datetime syntax is used (Pankaj, 2022). Next, considering that the management team stated a different ordering policy for medical devices which are ordered less frequently compared to the other products, they indicated that medical devices should be excluded from the data set.

Moreover, the demand values were aggregated by summing the sales of each product for each day as the data set was created daily and hourly. We then transposed the results of the



summation by taking each product from columns and putting them as rows of one column. In order to prepare the data set for training and evaluation with times series analysis, the prediction length which specifies how far the future prediction is defined. We defined the prediction length as ten periods and the interval as six weeks so that we can retrieve the future values from July 2024 to July 2025. Now that the data is prepared, a tool is designed to forecast the future demand with AutoGluon time series analysis.

4.1.2 Creating the Model

To begin, time series models (Naïve, Seasonal Naïve, ETS, ARIMA and Croston) which are mentioned in the literature review are defined in the tool with importing Times Series Data Frame. These models were selected based on their ability to capture the different patterns in the demand values, taking into account different variations such as trend and seasonality. Beside these individual methods, AutoGluon can combine several methods by assigning weights to each of them. This combination of methods is referred to as Weighted Ensemble method. Using the Weighted Ensembling method ensures that the strength of the methods is weighted to predict more reliable results.

After defining the time series methods, the data is then split into train and test sets. The training sets consist of around 75% of the data while the remaining 25% is the testing data (Galarnyk, 2022). It is important not to train and test on the entire data set as it leads to "overfitting". This procedure is required for validation of the trained model since it allows to see how well the method performs for the unseen data (Galarnyk, 2022). AutoML does this procedure automatically as it has the ability to try the time series models on both train and test sets and selects the one with the lowest forecasting error.

Additionally, it was observed that some products do not have orders for some periods and for those periods, the cells are empty. Therefore, the missing values are filled with zero values to get more accurate results as the model predicts better with a complete data set. We then converted the daily demand values to weekly values as the goal is to forecast in weekly periods. After all the adjustments, the model is trained and is capable of selecting the best method out of five of them. (See Appendix B)

4.1.3 Results

An automated tool is developed in AutoGluon which applies time series models to predict demand for the following year. The purpose of these models depends on the characteristics of the demand which means that not every method is optimal for forecasting. Therefore, the model with the lowest forecasting error rate should be selected to achieve accurate results. The most used forecasting errors which are integrated in AutoGluon are MSE and MAPE. MSE is more sensitive for the outliers, whereas MAPE becomes undefined when the historical data contains zero values (Shchur et al., 2023). MAPE includes division with the actual values which can lead to undefined values with a division with zero values. MSE does not have this issue since it takes the squared difference of the values.

It was observed that some products have periods with no orders which leads to zero values in the historical data. Therefore, the correctness of the models is tested using MSE. In total, the model trained five different time series models and evaluated the results with MSE. The



forecast error rates for each model that AutoGluon printed are illustrated in Table 3 as follows:

Ranking	Method	MSE	
1	Weighted Ensemble	706,83	
2	AutoARIMA	715,85	
3	Seasonal Naive	1189,15	
4	Naive	1189,15	
5	ETS	1189,84	
6	CrostonSBA	1622,34	

Table 3: MSE Validation Scores of the products

As can be seen from Table 3, Weighted Ensemble has the lowest MSE score in comparison to other methods. The results indicated that none of the methods can predict accurately on its own, but a combination of them which is known as "Weighted Ensemble" produced better predictions. The model suggests that combination of ARIMA with 0.91 weight and Croston with 0.09 weight produce the best results compared to other models (See Appendix C.2). For example, the forecasted demand for a certain product using ARIMA is multiplied by 0.91 while the forecasted demand with Croston is multiplied by 0.09. The final predicted value is the summation of both values. Furthermore, AutoGluon Time Series predictor generates two types of forecasts, namely mean and the quantile levels. Quantiles are usually set to be between 0.1 and 0.9. The predicted value of 0.1 indicates that the demand is below the predicted value 10% of the time while the value of 0.5 is known as "median" and indicates that the value is below or above that point with 50% probability. Therefore, predicted results are imported to Excel, and it shows the predicted mean and quantiles for all the products in the next periods.

During the prediction, the mean takes the value of median as it is less sensitive to the outliers. When the median is not considered as the mean, the accuracy of the results would be affected since large deviations can skew the mean. Thus, the predicted results include both the mean and the quantile and used when formulating the inventory policies.

4.1.4 Validity of the Model

Section 4.1.3 presented the validation scores for various time series methods. Section 4.1.4 illustrates the calculation of the MSE for the predicted demand values. Due to the large variety of the products in inventory, we selected a representative product (NaCI) to demonstrate this calculation. The MSE score for NaCI is presented in Table 4.



Table 4: Validity Analysis of NaCl

	Period	Actual	Predicted	Error	Square root
		values	values		of the error
NaCI	1	502	525.1281	-23.1281	534.9090096
	2	602	525.5973	76.4027	5837.372567
	3	535	523.602	11.398	129.914404
	4	535	540.4312	-5.4312	29.49793344
Weekly		90.5833	88.1149		
Average					
MSE Score					1632.923479

To start, four periods were chosen, with each period representing six weeks. The actual values were provided by DML for the year of 2023 for the months of January till June, however, since the tool only forecasts for the year of 2025, the predicted values of 2025 were compared to the actual values of 2023.

For each period, the error is calculated as the difference between actual and the predicted values. Accordingly, these errors are squared and averaged over the four period to compute the MSE score. The calculated MSE score for NaCI is 1632.92. Taking into account the four periods, the weekly average predicted is only 2.80% lower than the actual value, showing the accuracy of the forecasting method. Although this validation analysis is only limited to one product, it serves as an example to show model's accuracy.

4.2 ABC- Classification Results

To come up with inventory policies for DML, calculating the safety stock per product is essential, and as the results of the literature review show, the z-score is required to calculate the safety stock. Obtaining this z-score requires specifying a certain service level. These service levels were provided by DML during the initial interviews held with the management teams. As stated in the first chapter, tracer diagnosis products with the highest demand, criticality, and revenue should have a 98% service level. Since there are 120 products, it is not possible to identify the criticality of each product. For this reason, the usage value is calculated as used to classify the products.

The annual consumption value is computed for each product using Equation 1. Accordingly, products which accounts for 80% of the total inventory value are classified as "A" group items, those that account for the next 15% are classified as "B" group items and the remaining 5% are classified as "C" group items.

The results show that 78,97% of the items can be classified as A products while 15,41% for B group and 5,62% of them for C group items. The distributions per product type is illustrated in Table 5. Higher service levels are assigned to A class items to ensure that the most critical items are reliably available as those items have a significant contribution to the total inventory value. This desired service levels play a crucial role when determining the safety stocks and reorder points in the later stages of this research.



Table 5: ABC Results

Class	Medications	Consumables	Sets	Accessories	Test Equipment
Α	4	10	1	0	0
В	13	22	0	1	0
С	32	27	0	2	3

Moreover, in the case of medications, they are more commonly categorized as C items with 32 products followed by 13 for B class items and with the rest falling into A class items. Similarly, consumables show the highest contribution to C class items with 27 products while A class items have the lowest contribution with 10 products. These findings highlight the importance of inventory classification when setting optimal inventory levels considering the characteristics of different items in the inventory.

Now that the products are classified, each product class has a different desired service level. The class A products, which are the critical products that account for around 80% of the sales of DML should have the highest service level, such that they are almost always available. For this reason, class A products are assigned a service level of 98%. Then, class B, the interclass products, are assigned a service level of 95%. Finally, class C products are assigned a desired service level of 90%. Because class C products have a lower contribution to the sales of DML, it would not make sense for them to always be as available as class A products, because they contribute less to the total usage value of DML.

4.3 Development of inventory control policies

Since we classify products of DML into three categories with different assigned service levels, the inventory policies per product can be determined. As previously mentioned (Section 3.3.2), both continuous and periodic review policies need the service level values in order to calculate the safety stocks and reorder points. As the service levels are assigned for each group, we formulate the inventory policies. To come up with these policies, we need to make some assumptions:

- The demand remains steady over time and is normally distributed.
- Demand and lead times are presented as weeks.
- The lead time of all the products is five working days. However, for simplicity we assume that it is one week, considering that it takes a week for a product to arrive including the weekends.
- The holding costs of the products are 20% of the unit price with fixed ordering costs of €25 per order.
- For both policies, desired service level for A class items is 98%, 95% for B class items and 90% for the C class items.

It is not feasible to display the results of the policies for all products since there are over 100 items. Therefore, some examples are illustrated to show the methodology and the process behind coming up with the policies. The top two products which have the highest



consumption rate per classification group are selected and the calculations are shown in Section 4.3.1.

4.3.1 Average Demand & Standard Deviation

The developed forecasting tool in AutoGluon provided the results for the average demand of the products for the time between July 2024 and July 2025 with using both ARIMA and Croston's method. The forecasting was completed in six weeks of intervals with ten time periods, totaling a forecast of 60 weeks. Therefore, the average of the demand between July 2024 and July 2025 was calculated and divided by six to obtain the weekly averages. We then used the same values from the model to calculate the standard deviations using Equation 24 and 28. Depending on the policy, the mean demand of the product is calculated.

For the continuous review policy, the annual demand which is used while calculating the EOQ represents the weekly demand of the products. The weekly demand for products were calculated by using the forecasting tool. Thus, this amount is used as the annual demand for EOQ. Additionally, continuous review policy requires the value of mean lead time. Since the lead time for all the products is defined as one week, the weekly demand already results as the mean lead time. Even though both values are needed for different purposes, the formula returns the same values.

Within the periodic review policy, mean during T+L periods is needed. T (2 weeks) represents the fixed period when the stock levels are checked while L is the lead time. Therefore, Table 6 shows the calculations for mean demand and standard deviation of both inventory control policies.



Table 6: Demand & Standard Deviation Both Policies

Product	Class	Policy Type	Mean demand	Standard deviation
Sterofundin	A	Continuous Review Policy	$D_L = D * L =$ 500.34 * 1 = 500.34	$\sigma_L = \sqrt{L}\sigma_D = \sqrt{1} * 196.81 = 196.81$
		Periodic Review Policy	$D_{T+L} = (T + L)D = (2 + 1) * 500.34 = 1501.03$	$\sigma_{T+L} = \sqrt{T+L} * \sigma_D = \sqrt{3} * 196.81 = 340.89$
Buccolam	А	Continuous Review Policy	10.25	56.87
		Periodic Review Policy	30.77	98.50
Aspirin	В	Continuous Review Policy	47.01	29.57
		Periodic Review Policy	141.05	51.23
Heparin	В	Continuous Review Policy	43.39	28.84
		Periodic Review Policy	130.17	49.95
NaCl 0,9 %	С	Continuous Review Policy	87.98	43.82
		Periodic Review Policy	263.95	75.90
Salbutamol	С	Continuous Review Policy	90.77	69.03
		Periodic Review Policy	272.32	119.57

4.3.2 Continuous Review Policy: (r,Q)

Economic Order Quantity

As previously mentioned in Section 3.3.2 the number of items (the order quantity (Q)) is ordered when the inventory level reaches the reorder point (r) within the continuous review policy. In this case, the order quantity for all the products is calculated using the EOQ formula with Equation (22). In order to calculate the EOQ, the holding cost (K), annual demand (D) and ordering cost (h) are required. The calculations for annual demand were already done in Section 4.3.1. As a next step, the EOQ levels can be determined for each product. Table 7 displays the chosen products and the EOQ levels.



Table 7: EOQ Levels

Products	Unit Price	Holding costs	EOQ
Sterofundin	€0.52	€0.104	$q = \sqrt{\frac{2KD}{h}} = \sqrt{\frac{2(25)(500.34)}{(0.104)}} = 490.45 \approx 491$
Buccolam	€23.72	€4.74	10.39 ≈11
Aspirin	€0.32	€0.064	155.429 ≈156
Heparin	€0.72	€0.144	122.74≈123
NaCl 0,9 %	€0.12	€0.024	428.14 ≈429
Salbutamol	€0.12	€0.024	434.87 ≈435

Safety Stock (ss) & Re-order Point (ROP)

To develop continuous review policies, the last step is to calculate the reorder points and safety stock levels. We need the parameters of CSL and σ_L for the safety stock levels while D_L and ss are required for determining the ROP. All the parameters were derived in the previous sections. Now, we can plug them into the formulas and find our ss and ROP levels.

Class	Products	Safety Stock	Reorder Point
A	Sterofundin	$F_s^{-1}(CSL) * \sigma_L = F_s^{-1}(0.98) *$ 196.81 = 404.21≈405	$ROP = D_{T+L} + ss = 500.34 + 402.21 = 904.55 \approx 905$
	Buccolam	116.79≈117	127.05≈128
	Aspirin	$F_s^{-1}(0.95) * 29,5 = 48.65 \approx 49$	95.67≈96
В	Heparin	47.43≈48	90.82≈91
С	NaCl 0,9 %	$F_s^{-1}(0.90) * 43.82 = 56.16 \approx 57$	144.14≈145
	Salbutamol	88.47≈89	179.25≈180

Table 8: SS & ROP Continuous Policy

The results suggest that for Sterofundin, a new order should be placed when the inventory level reaches 905 units. The optimal order quantity is 491 units, and it is expected that approximately every week $\left(\frac{q}{E(D)} = \frac{491}{500.34} = 0.98 \text{ weeks} \approx 1 \text{ week}\right)$ the inventory reaches the reorder point. By following this policy, the company can ensure that they can achieve a 98% service level.

Similarly, one unit of Aspirin should be ordered with the reorder point of 96 units. The idea is the same for all the products and following these numbers ensures 98%, 95% and 90% of service level respectively for the A, B and C class items. Figure C.3 shows the values for all the products in Appendix C.



4.3.3 Periodic Review Policy: (T,S)

Safety Stock (ss) & Order-Up-to-Level (OUL)

The periodic review policy uses the (T,S) system. In contrast to continuous review policy, this policy focuses on the timing of the orders rather than calculating specific order quantities. This time, the inventory levels are checked after a fixed period of time *T* and the order is placed such that the current stock levels plus the replenishment lot size equals to order-up-to level (OUL) (Chopra et al., 2016). T is determined as 2 weeks and Equations (29) and (30) are used to compute safety stock and order-up-to levels for the chosen products as follows:

Class	Products	Safety Stock	OUL
A	Sterofundin	$F_s^{-1}(CSL) * \sigma_L = F_s^{-1}(0.98) * 340,89 = 700,11 \approx 701$	$ROP = D_{T+L} + ss$ = 700,11 + 150103 = 2201,14 \approx 2202
	Buccolam	202,29~203	233,06≈234
	Aspirin	84,26≈85	225,32≈226
В	Heparin	82,16≈83	212,33≈213
C NaCl 0,9 %		56,16≈57	144,14≈145
	Salbutamol	153,24≈154	425,56≈426

Table 9: SS & OU	JL Periodic Review
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Based on the results, Heparin should be ordered every 2 weeks and the current inventory levels should reach to 213 units. For example, if the current inventory level is 100 units, 113 orders should be placed for the new replenishment cycle. This policy ensures that with 95% probability, they do not experience stockouts.

Likewise, the new order for Salbutamol should be placed every 2 weeks to ensure that the current inventory level reaches the order up to level of 426 products. Appendix C shows the calculations for all the products.

4.4 Cost Evaluation

We have formulated both continuous and periodic review policies in Section 4.3. Now, we want to evaluate the costs of the formulated policies and analyze the results. To begin, average inventory levels (AIL) per policy are derived. AIL represent an estimation of the expected annual stock levels. Thus, the total holding costs are calculated by multiplying the average inventory levels with the holding cost (h) of the products. Accordingly, total ordering costs are calculated by multiplying the number of orders per period and the unit ordering costs (S). The total inventory cost is then the summation of both holding and ordering costs. The formulas necessary to calculate are illustrated in Table 10.

In general, the periodic review policy requires to purchase in fixed intervals, which were selected as two weeks, and for the continuous review policy, for some products, the calculations suggest that the products should be ordered in intervals shorter than two weeks.



This resulted in higher ordering costs and overall higher total inventory costs for the continuous review policy, since the ordering cost has a higher weight than the holding cost.

As can be seen from Table 9 and 10, some products resulted in a lower total cost within the continuous review policy while some of them were lower for the periodic review policy. Sterofundin and Buccolam have higher unit prices which also means that they have higher holding costs. However, their ordering costs are also quite high, especially for the continuous review policy. Within the continuous review policy for both of these products, the average inventory levels are much lower than in the periodic review policy, resulting in many more orders during the year. This means that the ordering costs are much higher. In this case and with the assumptions taken previously, the ordering costs outweigh the holding costs, so the periodic review policy is cheaper.

Conversely, <u>Aspirin</u>, <u>Heparin</u>, <u>NaCI</u> and <u>Salbutamol</u> have higher overall costs with the periodic review policy. These items are lower in demand and demand variability compared to Sterofundin and Buccolam which results as higher ordering costs for the periodic review policy. When both demand and standard deviation are low, it is not optimal to order very frequently. Therefore, placing an order every ordering period (T) might be unnecessary for these items. Since the ordering cost have much more weight in the total cost, these items are relatively cheaper within the continuous review policy. Table 9 shows the formulas for both inventory costs and AIL. Tables 11 and 12 illustrate the overall costs for both policies with the chosen products.

Policy	AIL	Total Holding Costs	Total Ordering Costs	Total Costs
Continuous Review	$\frac{Q}{2} + ss$	AIL * h	$\frac{D}{Q} * S$	Total Holding Costs+ Total Ordering Costs
Periodic Review	$\frac{DT}{2} + ss$	AIL * h	$\frac{1}{T} + \left(\frac{DT}{2} + ss\right) * h$	Total Holding Costs+ Total Ordering Costs

Table 10: Average Inventory Level and Cost Formulas



Table 11: Continuous Policy Costs

Products	AIL (C)	Ordering Cost	Holding cost	Total cost
Sterofundin	649,44	25,50	1,29	26,80
Buccolam	121,99	24,66	11,12	35,79
Aspirin	144,48	6,13	0,17	6,31
Heparin	108,80	8,83	0,30	9,13
NaCl 0,9 %	270,23	5,13	0,12	5,26
Salbutamol	18,77	3,17	0,16	3,33

Table 12: Periodic Policy Costs

Products	AIL	Ordering	Holding	Total cost
	(P)	Cost	cost	
Sterofundin	2201,14	12,50	4,40	16,90
Buccolam	233,06	12,50	21,26	33,76
Aspirin	225,32	12,50	0,27	12,77
Heparin	212,33	12,50	0,58	13,08
NaCl 0,9 %	361,23	12,50	0,16	12,66
Salbutamol	25,58	12,50	0,21	12,71

We only showed a couple of examples from the product list. When we look at the general distribution of the selected policies, we observed that 90.83% of the products have lower costs using the continuous policy while the rest (9.16%) is more cost-efficient for the periodic review policy. Specifically, 10 out of the 15 products that belong to A class items are more cost-efficient with the periodic review policy. In contrast, all the products of B class and C class items consistently resulted in lower costs with the continuous review policy. Even though the continuous review policy is more cost-efficient compared to periodic review policy, it requires more human work which means higher monitoring costs. Because the inventory levels should be reviewed every day, and the order should be placed when the inventory reaches to the reorder point. This is not the case for the periodic review policy as there is a fixed review period for checking the inventory. This situation is a trade-off that company should decide on.



4.5 Conclusion

The fourth chapter applied the theory, which was reviewed in the third chapter, with the goal of answering the following two sub-research questions:

- 1. How can the inventory methods be applied to DML's inventory management?
- 2. How can DML formulate effective inventory policies to optimize the inventory of tracer diagnosis supplies based on the findings from the literature and the application of the methods?

Coming up with inventory policies for DML to follow included analyzing their past demand data. Through this analysis, a forecasting tool was made. Since the demand data was incomplete, the data had to first be completed using the mean and the standard deviation of the provided data. After that, the demand was forecasted for the following year using AutoML. Using the outcome of the tool, the products with their corresponding demands for the following year were categorized using the ABC analysis. Then, using two different inventory management strategies, continuous and periodic review policies, inventory management policies were made for each product of the 120 tracer diagnosis products with the specified service levels. Since the tables with the results are made on Excel and are too large to show, examples of each product type (ABC) were provided to show how the calculations were made. Following the development of the inventory policies, a cost analysis was made to evaluate the total costs per product for both the inventory policies. The results show that 90,83% of the products have a lower cost using the continuous policy. A flowchart of the whole process which explains how the forecasting method and inventory management techniques are merged are illustrated in Figure D.1 (Appendix D).



5. RECOMMENDATIONS & CONCLUSION

Within the fifth chapter, the recommendations and conclusions are given. Section 5.1 gives the recommendations to DML following the cost evaluation of the policies. Then, Section 5.2 concludes this thesis. Finally, Section 5.3 discusses the future research opportunities which arise as an outcome to this research.

5.1 Recommendations

The first recommendation for DML is to replace the holding costs and ordering costs for each product in the Excel sheet which contains the calculations for the reorder points and orderup-to levels with the real-life cost values (See Appendix C, Fig. C.3). By doing so, and dragging down the columns, Excel automatically recalculates the total costs using the updated values which results in more accurate and cost-effective inventory policies.

Following that, DML should also consider the trade-offs of using a continuous and periodic review policy regarding checking the inventories daily for the continuous review policy. If DML decides to use continuous review policies for any products, they should purchase an automated system which can interact with their ERP system and update them with the inventory levels of each product.

In general, DML should make use of the forecasting tool to input the more recent past demand data to forecast the future demand more accurately. Then, they can use the forecasted demand to come up with inventory policies for the following year. This should be done at the end of each year to ensure that they are ready to meet the desired service levels in the following years.

5.2 Conclusion

DML is faced with the problem of meeting desired service levels for their tracer diagnosis products. Currently, the service levels are at 75%, meaning that there is a 25% probability of losing sales when replenishing the orders. DML would like the desired service levels to reach 90%, 95%, and 98%, depending on the importance of the product with respect to the revenue demand, and criticality. With these requirements from DML, a research question was made to guide this research. The goal of this research was to answer the following research question:

"How can the Department of Medical Logistics (DML), L2R's customer, optimize the inventory of medical products used in tracer diagnosis, particularly in emergency services, to ensure that their desired service levels are met?"

To answer the research question in more detail, sub-research questions are formulated which breaks down the research question into smaller parts and shape the format of this research. Using these sub-research questions, a conclusion is made.

Firstly, by categorizing inventory items into A, B, and C classes based on their consumption value, the research uses the ABC Analysis to prioritize products within the product portfolio. Class A items, representing the highest usage value receive more attention by having a higher service level assigned to them while Class B and C items receive a lower service level. This



method allows DML to ensure that critical items are always available while minimizing holding costs for less critical items.

Secondly, the research used several quantitative forecasting methods, which were all included in the AutoGluon forecasting tool. The methods include time series analysis such as ARIMA, Exponential Smoothing, and Croston's method. These methods provide a reliable way for predicting DML's future demand considering the trend and seasonal factors.

Finally, the study applied the Economic Order Quantity (EOQ) model to determine optimal order quantities and inventory levels. Continuous review policies (r,Q) and periodic review policies (T,S) were used to determine the reorder points and safety stock levels with the desired service levels. The results show that 90,83% of the products have a lower cost using the continuous policy, while the remaining 9,17% of the products have a lower cost using the periodic review policies ensure that stock levels are sufficient to meet demand without experiencing stockouts. DML can choose to apply the recommendations provided within this research to further ensure that the desired service levels are met.

5.3 Future Research

This research highlights several key areas where further investigation and research could help DML with gaining valuable insights.

The first future research opportunity is about enhancing the forecasting tool which was made using AutoGluon. While AutoGluon provides effective demand forecasting, future research could explore more advanced forecasting tools and techniques to achieve even better and more accurate forecasts. This is particularly important when growing the solution to support other customers that handle a larger number of inventory items. In such cases, deep machine learning methods are capable of capturing more complex patterns in demand and might provide more reliable results.

Furthermore, the forecasting tool can be updated, such that it always provides real-time data based on the current demand and orders. This was not possible to do with the provided data since the data was from 2019-2022 and it was not up to date.

A future study could explore the right value of desired service level based on total costs. An analysis on the total inventory costs can be made by comparing the total cost and service levels and choosing the optimal service levels based on the costs. Then, new inventory policies can be made based on the new chosen desired service levels.

Another future research opportunity would include implementing the recommendations at DML. The implementation of these methods is quite complex and should be done in the future. For the implementation, the organizational structure needs to change. Furthermore, the technology currently used at DML needs to be integrated with the new policies. The LIS and Kanban Card Systems must be integrated together such that the system is always up to date. By addressing these future research opportunities, DML can continue to improve their inventory management control, ensuring that they meet their demand with a minimized cost.



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Appendix

Appendix A

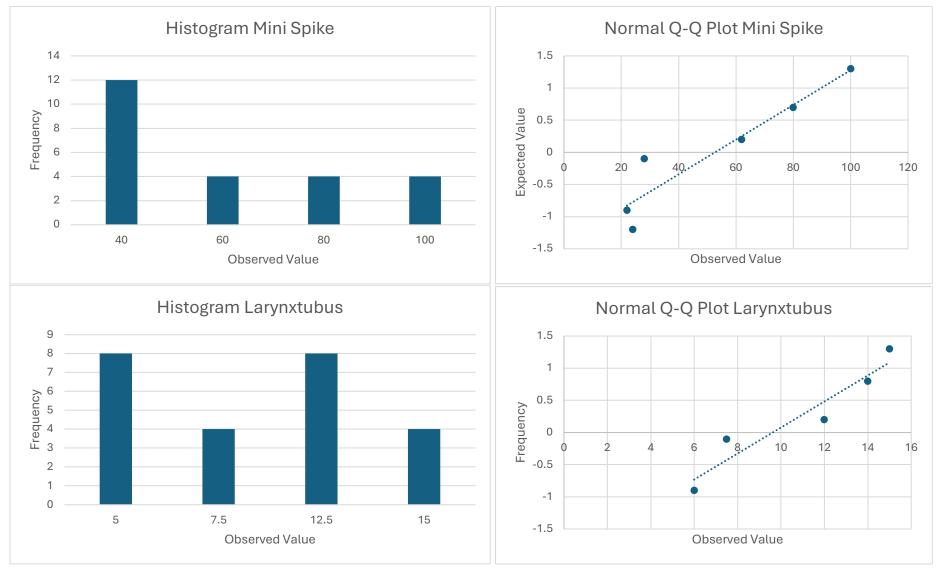
Variable	Norm	Reality	Problem owner
Service level of medical devices and consumables required in tracer diagnosis	98%, 95%, 90% service level	75% service level	Department of Medical Logistics (DML)
Table A.1			

						<u>~</u>	
Know	edge questions	Data source	Data type	Research type	<u>Research</u> population	Data gathering methods	Activities
1.	What are the current strategies to store and manage the medical devices and consumables?	Qualitative	Primary data	Descriptive	Company	Interviews with employees	 Observation of the current process. Process flow of supply chain
2.	What are the recommended product classification methods in the literature?	Qualitative	Secondary data	Descriptive	Literature	Literature Review	 Identifying product classification methods
3.	Which demand forecasting techniques exist in the literature?	Qualitative	Secondary data	Descriptive	Literature	Literature Review	 Identifying demand forecasting techniques
4.	What are the recommended inventory policies in the literature?	Qualitative	Secondary data	Descriptive	Literature	Systematic Literature Review	 Defining the existing inventory methods
7.	How can the recommended inventory policies be applied to DML's inventory management?	Qualitative, Quantitative	Primary data, Secondary data	Descriptive	Company, Literature	Mathematical models and Excel	 Calculations for the inventory parameters Application of demand forecasting and product classification methods Development of decision-making model
5.	How can DML formulate effective inventory management strategies to optimize the inventory of tracer diagnosis supplies based on the findings from the literature and the application of the policies?	Qualitative	Secondary data	Descriptive	Company	Data analysis and Literature review	 Recommendations for developing inventory policy(s)

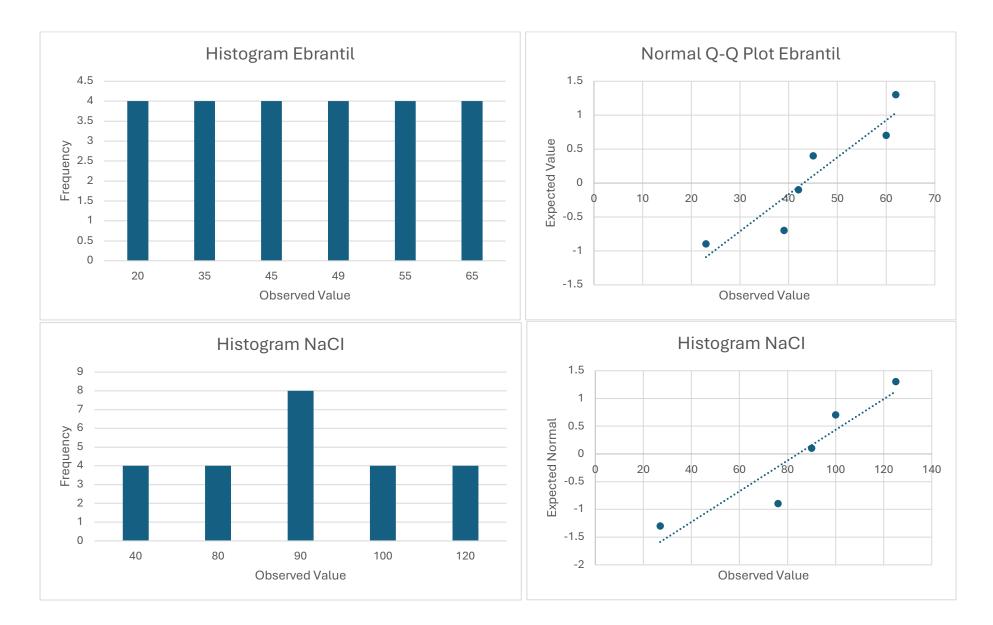
Table A.2



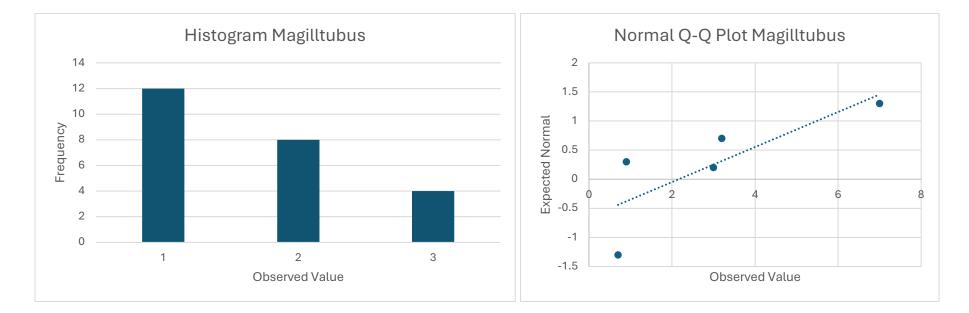
Appendix B













Appendix C

import pandas as pd

data = pd.read_excel(path)
Convert timestamp column to datetime
data["timestamp"] = pd.to_datetime(data["timestamp"])

data.head()

Calculate daily sales for each Product and put 0 for missing weeks
daily_sales_sums = (
 data.groupby(["articleName", pd.Grouper(key="timestamp", freq="D")])["quantity"]
 .sum()
 .unstack()
 .fillna(0)

Transpose the data to have products as rows and dates as columns
timeseries = daily_sales_sums.T
Sort the data by date
timeseries.sort_index(inplace=True)

Take each product from columns and put as rows of one column timeseries = pd.melt(timeseries.reset_index(), id_vars="timestamp", var_name="articleName", value_name="demand")

For every product in the data calculate mean and std of the demand # Then generate random values from a normal distribution with the calculated mean and std until 2024 import numpy as np

Calculate mean and std of the demand for each product mean_demand = timeseries.groupby("articleName")["demand"].mean() std_demand = timeseries.groupby("articleName")["demand"].std()

Write mean and std for every product to a csv file mean_std = pd.DataFrame({"mean": mean_demand, "std": std_demand}) mean_std.to_csv("mean_std.csv")



```
# Generate random values from a normal distribution with the calculated mean and std until 2024
# Create a dataframe to store the generated values
generated_data = pd.DataFrame(columns=["timestamp", "articleName", "demand"])
# Set the seed for reproducibility
np.random.seed(0)
# Calculate how many days are there till 2024 from the last date in the data
days_till_2024 = (
    pd.Timestamp("2024-01-01") - timeseries["timestamp"].max()
).days
# Generate dates until 2024
generated_dates = pd.date_range(
   start=timeseries["timestamp"].max() + pd.Timedelta(days=1),
   periods=days_till_2024,
    freq="D",
# For each product generate random values from a normal distribution with the calculated mean and std
for item_id in timeseries["articleName"].unique():
    mean = mean_demand[item_id]
    std = std_demand[item_id]
    type = data[data['articleName'] == item_id]['type'].iloc[0]
    # Generate random values from a normal distribution with the calculated mean and std
   generated_values = np.random.normal(mean, std, days_till_2024)
    # Round up the generated values
    generated_values = np.round(generated_values, 0)
    # Make negative values 0
   generated_values[generated_values < 0] = 0</pre>
    # Generate dates until 2024
    generated_data = pd.concat(
            generated_data,
            pd_DataFrame(
                    "timestamp": generated_dates,
                    "articleName": item_id,
                    "demand": generated_values,
                    "type": type,
```



Figure C.1

```
QUALITY_CHOISES = ["fast_training", "medium_quality, high_quality, best_quality"]
EVAL_METRIC_CHOISES = ["MAPE", "MSE"]
HYPER_PARAMETERS = {
    "AutoARIMAModel": {},
    "ETS": {},
    "Naive": {},
    "SeasonalNaive": {},
    "CrostonSBAModel": {},
}
```

```
prediction_length = 10
freq = "6W"
quality_of_model = "fast_training"
eval_metric = "MSE"
```

```
if quality_of_model not in QUALITY_CHOISES:
print("Quality of model is not in the choises please choose one of the following: fast_training, medium_quality, high_quality, best_quality")
```

```
from pathlib import Path
# Get the path to the data file and if data name is wrong or file is not found
# print an error message
path = Path('data') / 'data.xlsx'
if not path.exists():
    print("Data file not found please make sure the data file is in the data folder and named as data.xlsx")
```

```
import pandas as pd
```

```
data = pd.read_excel(path)
# Convert timestamp column to datetime
data["timestamp"] = pd.to_datetime(data["timestamp"])
# Remove products which types are contains with "medical device"
data.loc[:, "type"] = data["type"].fillna("unknown")
data = data[~data["type"].str.contains("medical device")]
# Show the unique types of the products
data["type"].unique()
```



Find the type for every product
static_features = data.groupby("articleName")
static_features = static_features[["articleName", "type"]].first()
static_features.reset_index(drop=True, inplace=True)

Calculate weekly sales for each Product and put 0 for missing weeks
daily_sales_sums = (
 data.groupby(["articleName", pd.Grouper(key="timestamp", freq="D")])["demand"]
 .sum()
 .unstack()
 .fillna(0)
)

Transpose the data to have products as rows and dates as columns timeseries = daily_sales_sums.T # Sort the data by date timeseries.sort_index(inplace=True)

Take each product from columns and put as rows of one column timeseries = pd.melt(timeseries.reset_index(), id_vars="timestamp", var_name="articleName", value_name="demand")

```
from autogluon.timeseries import TimeSeriesDataFrame
# Define the prediction length
# Create a TimeSeriesDataFrame
timeseries = TimeSeriesDataFrame(
    timeseries, timestamp column="timestamp", id column="articleName", static features=static features
)
# Convert the frequency of the data to weekly
timeseries = timeseries.convert_frequency(freq=freq)
# Seperate the data into train and test sets
train_data, test_data = timeseries.train_test_split(prediction_length=prediction_length)
# Fill missing values with 0
train_data.fillna(0, inplace=True)
test_data.fillna(0, inplace=True)
# Instead of averages, we will use the sum of sales for the prediction
number_of_days_in_freq = pd.date_range(start=train_data.index[0][1], end=train_data.index[1][1], freq='D').shape[0] - 1
train data.loc[:, "demand"] = train data["demand"] * number of days in freq
test data.loc[:, "demand"] = test data["demand"] * number of days in freq
```



from autogluon.timeseries import TimeSeriesPredictor, TimeSeriesDataFrame
<pre>model_path = Path("AutogluonModels") / (guality_of_model + "_" + freg + "_" + eval_metric + "_Predict" + str(prediction_length))</pre>
Create a TimeSeriesPredictor
predictor = TimeSeriesPredictor(
path=model_path,
<pre>prediction_length=prediction_length,</pre>
eval_metric=eval_metric,
target="demand",
freq=freq
Train the model
predictor.fit(train_data=train_data, presets=quality_of_model, hyperparameters=HYPER_PARAMETERS)

model score val pred time val fit time marginal fit order

		—	-		_		_	
0	WeightedEnsemble	-7.068334e+05		174.297411		2.199725		6
1	AutoARIMA	-7.158580e+05		166.847806		0.055479		5
2	SeasonalNaive	-1.189157e+06		1.686496		0.050505		2
3	Naive	-1.189157e+06		2.206358		0.073348		1
4	ETS	-1.189845e+06		36.917669		0.053210		3
5	CrostonSBA	-1.622344e+06		7.449605		0.051796		4

Make predictions using train_data train_predictions = predictor.predict(train_data) # Create predictions directory if it does not exist Path("predictions").mkdir(exist_ok=True) train_predictions_path = Path("predictions") / ("train_predictions_" + (quality_of_model + "_" + freq + "_" + eval_metric + "_Predict" + str(prediction_length)) +".xlsx") # Get types for every row from static features train_predictions["timestamp"] = train_predictions.index.get_level_values("timestamp")

train_predictions = train_predictions.merge(static_features, left_on="item_id", right_on="item_id") train_predictions = TimeSeriesDataFrame(train_predictions)

train_predictions.to_excel(train_predictions_path)



<pre># Make predictions using test_data test_predictions = predictor.predict(test_data)</pre>	
<pre>test_predictions_path = Path("predictions") / ("test_predictions_" + (quality_of_m</pre>	nodel + "_" + freq + "_" + eval_metric + "_Predict" +
str(predicti	ion_length)) +".xlsx")
<pre># Get types for every row from static features test_predictions["timestamp"] = test_predictions.index.get_level_values("timestamp test_predictions = test_predictions.merge(static_features, left_on="item_id", righ test_predictions = TimeSeriesDataFrame(test_predictions) test_predictions.to_excel(test_predictions_path)</pre>	

Figure C.2



| Product Name

 | -1 Type | casted demand (weeks) 👻 Standa | ard deviation (week 💌 Uni
 | it orice 💌 Hold | ding cost 👻 Ordering | z cost 💌 Lead time/w | eki 🛛 Class | CSL Continuous | s Review Policy 🔽 E00 🔤 Frequen
 | ncyof the orders (week: 🔽 Salety Stock 🔽 Reorder Poin 🔽 Periodic Review Policy 🔽 Review Perio | d/T 🔻 Mean during T+L period 👻 Standard devi | iation during T+L perior 🔻 Safety Stock 🔽 Order | up-to level (OUL 🖬 All 🔰 Ordering Co 🖬 Holding Co 🖬 Total cost 🖬 All 2 💽 Order
 | ing Cost3 V Holding (V Total cost2 V Selected Policy V |

Adrekar

 | medication | 6.092884064 | 11,50065874
 | 5,36 | 1.072 | 25 | 1.8 | 0,95 | 16,85773
 | 2,766789713 18,91690025 25,00978431 | 2 18,27865219 | 19,91972526 32,76503235 | 51,04368454 27,345765 9,03574272 0,5637435 9,599486 51,04368
 | 12.5 1.052285 13.5522852 Continuous Review Policy |
| Adrenalin jenapharm

 | medication | 30,92246424 | 82,16774233
 | 0,32 | 0,064 | 25 | 1 C | 0,90 | 155,429
 | 5,026410653 105,3021988 136,2246631 | 2 92,76739273 | 142,3187045 182,3887585 | 275,1561512 183,0167 4,97372812 0,2252513 5,198979 275,1562
 | 12,5 0,338654 12,8386537 Continuous Review Policy |
| Afpred forte

 | medication | 0,668038118 | 1,356801051
 | 1,3 | 0,26 | 25 | 1 C | 0,90 | 11,33441
 | 16,96671271 1,738810511 2,406848628 | 2 2,004114354 | 2,350048355 3,011708149 | 5,015822503 7,4060159 1,47347341 0,0370301 1,510503 5,015823
 | 12,5 0,025079 12,5250791 Continuous Review Policy |
| Ampuwa20 ml

 | medication | 6,439452616 | 15,38200444
 | 0,15 | 0,03 | 25 | 1 C | 0,90 | 103,5974
 | 16,08792003 19,71283187 26,15228449 | 2 19,31835785 | 26,64241321 34,14362636 | 53,46198421 71,511531 1,55396098 0,0412567 1,595218 53,46198
 | 12,5 0,030843 12,5308435 Continuous Review Policy |
| Anexate

 | medication | 1,704583995 | 3,629633924
 | 6,48 | 1,296 | 25 | 1 C | 0,90 | 8,109456
 | 4,757439765 4,651563038 6,356147033 | 2 5,113751984 | 6,28671037 8,056743516 | 13,1704955 8,7062909 5,25492728 0,2169876 5,471915 13,1705
 | 12,5 0,328249 12,8282493 Continuous Review Policy |
| Anticholium

 | medication | 0,339654521 | 2,786873995
 | 6,55 | 1,31 | 25 | 1 0 | 06,0 | 3,600543
 | 10,60060506 3,571522732 3,911177253 | 2 1,018963563 | 4,827007354 6,186058832 | 7,205022395 5,3717944 2,35835595 0,1353279 2,493684 7,205022
 | 12,5 0,181511 12,6815111 Continuous Review Policy |
| Arterenol 1 ml
Aspirin I.V.

 | medication
medication | 11,41642316
47.01931508 | 32,74650109
29,57886223
 | 0,41 | 0,082 | 25 | 1 C
1 B | 0,90 | 83,43401
191,6607
 | 7,308244139 41,96632973 53,38275289
4,076212964 48,65289882 95,67221391 | 2 34,24926949
2 141.0579453 | 56,71860365 72,6878153
51,23209222 84,2692927 | 106,9370848 83,683334 3,42079431 0,1319622 3,552756 106,9371
225,3272379 144,48327 6,13314373 0,1778256 6,310969 225,3272
 | 12,5 0,168632 12,6686316 Continuous Review Policy
12,5 0,277326 12,7773258 Continuous Review Policy |
| BACTEC Plus Anaerobic (orange)

 | medication | 5,584423129 | 10,87393325
 | 5,1 | 1,02 | 25 | 1 8 | 0,95 | 16,54528
 | 2,962755123 17,88602854 23,47045167 | 2 16,75326939 | 18,83420486 30,97951018 | 47.73277956 26.158668 84380919 0.5131123 8.951204 47.73278
 | 12,5 0,936297 13,4362968 Continuous Review Policy |
| Beloc 5 ml

 | medication | 16,88439573 | 10,04949871
 | 0.51 | 0,102 | 25 | 1 0 | 0,90 | 90,97618
 | 5,388180739 12,8789508 29,76334653 | 2 50,65318718 | 17,40624235 22,30699713 | 72,96018431 58,367039 4,63978497 0,1144892 4,754274 72,96018
 | 12.5 0.143114 12.6431142 Continuous Review Policy |
| BerotecN

 | medication | 0,805139375 | 6,92820323
 | 3,93 | 0,786 | 25 | 1 C | 0,90 | 7,156641
 | 8,888698924 8,878849696 9,683989071 | 2 2,415418124 | 12 15,37861879 | 17,79403691 12,45717 2,81256011 0,1882949 3,000855 17,79404
 | 12,5 0,268964 12,7689637 Continuous Review Policy |
| Bronchiospasmin

 | medication | 11,22377828 | 98,8289002
 | 0,42 | 0,084 | 25 | 1 C | 0,90 | 81,73629
 | 7,282421631 126,6543318 137,8781101 | 2 33,67133484 | 171,1766764 219,3717376 | 253,0430725 167,52247 3,432924 0,2706132 3,703537 253,0431
 | 12,5 0,408762 12,9087619 Continuous Review Policy |
| Buccolam 5 mg FSP

 | medication | 10,25680319 | 56,87040025
 | 23,72 | 4,744 | 25 | 1 A | 86,0 | 10,39725
 | 1,013693474 116,7975226 127,0543257 | 2 30,77040958 | 98,50242267 202,2992433 | 233,0696528 121,99615 24,6622876 11,129803 35,79209 233,0697
 | 12,5 21,26312 33,7631237 Periodic Review Policy |
| Buscopan

 | medication | 9,420366732 | 9,046596547
 | 0,41 | 0,082 | 25 | 1 C | 0,90 | 75,79001
 | 8,045335714 11,59367997 21,0140467 | 2 28,2611002 | 15,66916486 20,08084275 | 48,34194295 49,488686 3,10739053 0,0780399 3,18543 48,34194
 | 12,5 0,076232 12,5762315 Continuous Review Policy |
| C3 Cor Patch easy Pediatric (10)

 | con su mables md | 0,719328237 | 1,715938357
 | 431
390 | 86,2 | 25 | 1 A | 86,0 | 0,645944
 | 0,89798238 3,524106531 4,243434768 | 2 2,15798471 | 2,972092417 6,103931563
4,397830043 9,032038661 | 8,261916273 3,8470786 27,8401899 6,3772726 34,21746 8,261916
17,86569211 5,9015875 53,5811289 8,8523813 62,43351 17,86569
 | 12,5 13,69572 26,1957151 Periodic Review Policy |
| C3 CorPatch easy pre-connected (Erw) (10)

 | con sumables md
medication | 2,94455115 | 2,539088359
 | 0.28 | 78 | 25 | 1 A
1 C | 0,98 | 1,373875
 | 0,466582182 5,214649952 8,159201102
12,71574669 33,13310843 38,65513182 | 2 8,83365345
2 16,56607018 | 4,397830043 9,032038661 44,78027163 57,38822721 | 73,95429739 68,241434 1,96606622 0,0734908 2,039557 73,9543
 | 12,5 26,79854 39,2985382 Periodic Review Policy
12,5 0.079643 12,5796431 Continuous Review Policy |
| Catheiel

 | medication | 21,0418176 | 21,45538006
 | 0,56 | 0,112 | 25 | 1 0 | 0,90 | 96,92094
 | 4.606110633 27.4961759 48.5379935 | 2 63.1254528 | 37.16180835 47.62477367 | 110.7502265 75.956646 5.42757263 0.1635989 5.591172 110.7502
 | 12.5 0.238539 12.7385389 Continuous Review Policy |
| Chir. Best. Susi (Set)

 | set | 2,233527422 | 4,640892025
 | 36.5 | 73 | 25 | 1 A | 0,98 | 3,911283
 | 1,751168464 9,531226941 11,76475436 | 2 6,700582266 | 8,03826078 16,50856932 | 2320915159 11486868 142761822 1.6125796 15.88876 23.20915
 | 12.5 3.258208 15.7582078 Periodic Review Policy |
| Cordarex 100 mg

 | medication | 28,99910762 | 29,27093915
 | 0,79 | 0,158 | 25 | 1 B | 0,95 | 95,79631
 | 3,303422647 48,14641043 77,14551804 | 2 86,99732285 | 50,69875379 83,39202906 | 170,3893519 96,044565 7,5679084 0,2918277 7,859736 170,3894
 | 12,5 0,517721 13,0177215 Continuous Review Policy |
| Cyklokapron 1000mg 10ml

 | medication | 1,755714782 | 3,918680978
 | 9,53 | 1,906 | 25 | 1 B | 0,95 | 6,786573
 | 3,865418948 6,445656619 8,201371401 | 2 5,267144346 | 6,787354552 11,16420475 | 16,4313491 9,8389432 6,46760425 0,3606351 6,828239 16,43135
 | 12,5 0,602272 13,1022721 Continuous Review Policy |
| Dormicum

 | medication | 34,71468175 | 39,99194995
 | 1,1 | 0,22 | 25 | 1 B | 0,95 | 88,82399
 | 2,558686441 65,78090392 100,4955857 | 2 104,1440453 | 69,2680892 113,9358678 | 218,079913 110,1929 9,7706384 0,4662007 10,23684 218,0799
 | 12,5 0,922646 13,4226458 Continuous Review Policy |
| Ebrantil

 | medication | 37,78272247 | 40,89111558
 | 0,54 | 0,108 | 25 | 18 | 0,95 | 132,2573
 | 3,500471131 67,25989977 105,0426222 | 2 113,3481674 | 70,82548976 116,4975637 | 229,8457311 133,38856 7,14189578 0,2770378 7,418934 229,8457
 | 12,5 0,477372 12,9773719 Continuous Review Policy |
| Fentanyl
FFP 3 Masken

 | medication | 37,42664134
2247,221387 | 20,00056817
 | 0,56 | 0,112 | 25 | 1 B | 0,95 | 129,2607
895,8678
 | 3,453707575 32,8980071 70,32464844 | 2 112,279924
2 6741,66416 | 34,64200026 56,98101977 | 169,2609438 97,528344 7,23859778 0,210061 7,448659 169,2609
 | 12,5 0,364562 12,864562 Continuous Review Policy
12,5 86,63953 99,1395275 Periodic Review Policy |
| Glucose 10 %

 | con su mables su
medication | 15,08989334 | 17,9972641
 | 2,13 | 0,14 | 25 | 1 A | 0,98 | 42,08461
 | 0,39865577 14687,05863 16934,28001
2,788926812 29,60286513 44,69275847 | 2 6/41,66416 | 12386,48582 25438,73175
31.17217582 51,27366646 | 32180,39591 15134,993 62,7107441 40,748057 103,4588 32180,4
96,54334648 50,645169 8,96402153 0,4149008 9,378922 96,54335
 | 12,5 86,63953 99,1395275 Periodic Keview Policy
12,5 0,790913 13,2909128 Continuous Review Policy |
| Haldol

 | medication | 2.977713871 | 7.115390915
 | 0.19 | 0.038 | 25 | 1 0 | 0,90 | 62,59429
 | 21.02092012 23.00200513 44.032/3847 | 2 8933141613 | 12.32421858 15.79412162 | 24,72726323 40,415883 1,18929142 0,0295347 1,218826 24,72726
 | 12.5 0.01807 12.5180699 Continuous Review Policy |
| Hamilton Beatmungsschlauch (20)

 | con sumables md | 0.568523645 | 0.527046277
 | 15,75 | 3,15 | 25 | 1 0 | 0,90 | 3.004028
 | 5283910578 0.675436981 1.243960626 | 2 1.705570936 | 0.912870929 1169891168 | 2.875462105 2.177451 4.73134426 0.1319033 4.863248 2.875462
 | 12.5 0.174187 12.6741866 Continuous Review Policy |
| Han sap last 6 cm

 | con su mables su | 10,72240512 | 28,83652986
 | 1,9 | 0,38 | 25 | 1 8 | 0,95 | 37,56119
 | 3,503056145 47,43187073 58,15427585 | 2 32,16721535 | 49,94633484 82,15441001 | 114,3216254 66,212464 7,13662555 0,4838603 7,620486 114,3216
 | 12,5 0,835427 13,3354273 Continuous Review Policy |
| Heparin

 | medication | 43,39 | 28,84
 | 0,72 | 0,144 | 25 | 1 B | 0,95 | 122,7435
 | 2,828843561 47,4375786 90,8275786 | 2 130,17 | 49,95234529 82,16429633 | 212,3342963 108,80934 8,83753359 0,3013182 9,138852 212,3343
 | 12,5 0,588003 13,0880027 Continuous Review Policy |
| Hyperven tilation smaske

 | con su mables su | 15,04280027 | 24,07878483
 | 0,85 | 0,17 | 25 | 18 | 0,95 | 66,51581
 | 4,421770489 39,60607656 54,64887682 | 2 45,1284008 | 41,70567871 68,59973688 | 113,7281377 72,863982 5,65384388 0,2382092 5,892053 113,7281
 | 12,5 0,371804 12,8718035 Continuous Review Policy |
| I-STAT Kartusche - CG4+

 | con su mables md | 2,411945438 | 27,5317998
 | 5,1 | 1,02 | 25 | 1 C | 0,90 | 10,87348
 | 4,50817926 35,28342113 37,69536657 | 2 7,235836315 | 47,68647607 61,11267806 | 68,34851438 40,720162 5,54547602 0,7987416 6,344218 68,34851
 | 12,5 1,340682 13,8406824 Continuous Review Policy |
| I-STAT Kartusche-CG8+

 | con su mables md | 3,17447834 | 26,98114421
 | 7,06 | 1,412 | 25 | 1 B | 0,95 | 10,60239
 | 3,339884665 44,38003291 47,55451125 | 2 9,52343502 | 46,73271262 76,86847185 | 86,39190687 49,681229 7,48528842 1,3490364 8,834325 86,39191
 | 12,5 2,345873 14,8458725 Continuous Review Policy |
| I-STAT Kartusche - cTnL
I-STAT Kontrollösung CG4 und CG8

 | consumables md
test equipment | 2,520254437 | 48,15357377 58,68986284
 | 9,5 | 1,9 | 25 | 1 B
1 C | 0,95 | 8,143862
 | 3,231364933 79,20558046 81,7258349
5,898446417 75,2140856 76,87358399 | 2 7,560763311 2 4,978495169 | 83,40443633 137,1880896
101,6538243 130,2746177 | 144,7488529 83,277511 7,73666872 3,0428321 10,7795 144,7489
135,2531129 80,108317 4,23840419 1,3341116 5,572516 135,2531
 | 12,5 5,2889 17,7889004 Continuous Review Policy
12,5 2,252485 14,7524845 Continuous Review Policy |
| Iprabronch

 | test equipment | 53,47021891 | 75.8209114
 | 0.21 | 0.042 | 25 | 1 0 | 0,90 | 252,2995
 | 4.718504525 97.16840771 150.6386266 | 2 160,4106567 | 131,3256708 168,300619 | 328.7112758 223.31814 5.29828887 0.1803723 5.478661 328.7113
 | 12,5 2,252485 14,7524845 Continuous Review Policy |
| Isoptin

 | test equipment | 2,475817188 | 72,56207374
 | 0.32 | 0.064 | 25 | 1 0 | 0,90 | 43,97991
 | 17.76379401 92.9920392 95.46785639 | 2 7,427451563 | 125,6811984 161,0669366 | 168,4943882 114,98199 1,40735701 0,1415163 1,548873 168,4944
 | 12.5 0.207378 12.7073777 Continuous Review Policy |
| Ketamin S 20 mg

 | medication | 17,98713862 | 20,12687033
 | 3,24 | 0,648 | 25 | 1 A | 0,98 | 37,25448
 | 2,071173393 41,335538 59,32267663 | 2 53,96141586 | 34,860762 71,59525198 | 125,5566678 59,962779 12,0704525 0,7472285 12,81768 125,5567
 | 12,5 1,564629 14,0646292 Continuous Review Policy |
| Laryn xmaske Kind Gr. 1

 | medication | 0,797838481 | 2,340126167
 | 4,5 | 0,9 | 25 | 1 C | 0,90 | 6,657654
 | 8,344614108 2,998992353 3,796830834 | 2 2,393515444 | 4,053217417 5,194407126 | 7,58792257 6,3278195 2,99594441 0,10952 3,105464 7,587923
 | 12,5 0,131329 12,6313294 Continuous Review Policy |
| Laryn xmaske Kind Gr. 1,5

 | medication | 0,613606652 | 2,02758751
 | 4,5 | 0,9 | 25 | 1 C | 0,90 | 5,838601
 | 9,515217459 2,598457948 3,212064599 | 2 1,840819955 | 3,511884584 4,500661187 | 6,341481142 5,5177583 2,62737033 0,0954997 2,72287 6,341481
 | 12,5 0,109756 12,6097564 Continuous Review Policy |
| Laryn xmaske Kind Gr. 2

 | con su mables su | 0,811016273 | 2,615202806
 | 4,5 | 0,9 | 25 | 1 C | 0,90 | 6,712411
 | 8,27654276 3,35151725 4,162533523 | 2 2,43304882 | 4,529664131 5,804998159 | 8,238046979 6,7077227 3,02058489 0,1160952 3,13668 8,238047
 | 12,5 0,142582 12,6425816 Continuous Review Policy |
| Larynxmaske Kind Gr. 2,5

 | con sumables su
con sumables su | 0,780810865 | 2,115700942
 | 4,5 | 0,9
0,9 | 25 | 1 C | 0,90 | 6,586227
 | 8,435111419 2,711379855 3,492190719 | 2 2,342432594 | 3,664501525 4,696247667 | 7,038680261 6,0044932 2,96380199 0,1039239 3,067726 7,03868
 | 12,5 0,121823 12,6218233 Continuous Review Policy |
| Larynxmaske Kind Gr. 3

 | | | | | |
 | | | | | |
 | | | |
 | |
| Langestrikus Or. 2

 | | 0,68202074 | 2,598076211
 | | | 25 | 10 | 0,90 | 6,155489
 | 9,025368788 3,329568636 4,011589376 | 2 2,046062219 | 4,5 5,766982045 | 7,813044264 6,407313 2,76996991 0,1108958 2,880866 7,813044
 | 12,5 0,135226 12,6352258 Continuous Review Policy |
| Larynxtubus Gr. 3

 | con su mables su | 3,921529833 | 19,05236007
 | 11,69 | 2,338 | 25 | 1 B | 0,95 | 9,157786
 | 2,335258638 31,33834356 35,2598734 | 2 11,7645895 | 32,99965565 54,27960328 | 66,04419278 35,917237 10,7054523 1,6148942 12,32035 66,04419
 | 12,5 2,969449 15,4694485 Continuous Review Policy |
| Larynxtubus Gr. 3
Larynxtubus Gr. 4
Larynxtubus Gr. 5

 | | | | | |
 | | | | | |
 | | | |
 | |
| Larynxtubus Gr. 4

 | con sumables su
con sumables su | 3,921529833
8,701455116 | 19,05236007
23,32510677
 | 11,69
11,69 | 2,338
2,338 | 25
25 | 1 B
1 A | 0,95 | 9,157786
13,64139
 | 2,335258638 31,33834356 35,2598734
1,567713891 47,90391263 56,60536775 | 2 11,7645895
2 26,10436535 | 32,99965565 54,27960328
40,40027003 82,97201056 | 66,04419278 35,917237 10,7054523 1,6148942 12,32035 66,04419
109,0763759 54,724609 15,9467873 2,4605026 18,40729 109,0764
 | 12,5 2,969449 15,4694485 Continuous Review Policy
12,5 4,904242 17,4042417 Periodic Review Policy |
| Larynxtubus Gr. 4
Larynxtubus Gr. 5

 | consumables su
consumables su
consumables su
consumables su
consumables su | 3,921529833
8,701455116
3,846099091
18,10684929
4,359446144 | 19,05236007
23,32510677
9,468848447
11,36448482
5,212891944
 | 11,69
11,69
11,69
0,28
18,6 | 2,338
2,338
2,338
0,056
3,72 | 25
25
25
25
25
25
25 | 1 B
1 A
1 B
1 C
1 A | 0,95
0,98
0,95
0,90
0,90 | 9,157786
13,64139
9,069284
127,1488
7,654718
 | 2.335256438 13.33844556 35.2589734
1.66771580 1.470691263 66.46554775
2.35640731 15.57466971 19.420688
7.0222140995 14.56417331 32.8710226
1.75569226 10.7055715 15.5654173 | 2 11,7645895
2 26,10436535
2 11,53829727
2 54,32054787
2 13,07833843 | 32,99965565 54,27960328
40,40027003 82,97201056
16,4005266 26,97646566
19,6838651 25,22588814
9,028993702 18,54328598 | 6604119278 55912371 107054523 15,148942 1232035 46,04419
109,078575 54,724699 15,946773 2,485026 18,0729 109,0764
30,5147623 20,10512 10,6019325 0,941546 11,50615 38,51476
79,54643601 72,13598 3,56616776 0,941453 3,64317 75,54644
3,152162441 1,45333 14,2237755 1,5,96921 5,27747 31,512462
 | 12,5 2,969449 15,4694485 Continuous Review Policy 12,5 4,904242 17,4042417 Periodic Review Policy 12,5 1,731683 14,231683 Continuous Review Policy 12,5 1,731683 14,231683 Continuous Review Policy 12,5 0,26565 12,58656 Continuous Review Policy 12,5 2,262162 14,7621624 Periodic Review Policy |
| Larynxtubus Gr. 4
Larynxtubus Gr. 5
Lask 40
Leukopiat 2,5 cm (12)
Lidocain

 | con sumables su
con sumables su
con sumables su
con sumables su
con sumables su
medication | 3,921529833
8,701455116
3,846099091
18,10684929
4,359446144
9,113708496 | 19,05236007
23,32510677
9,468848447
11,36448482
5,212891944
17,77873261
 | 11,69
11,69
11,69
0,28
18,6
0,35 | 2,338
2,338
2,338
0,056
3,72
0,07 | 25
25
25
25 | 1 B
1 A
1 B
1 C
1 A
1 C | 0,95
0,98
0,95
0,90
0,90
0,98 | 9,157786
13,64139
9,069284
127,1488
7,654718
80,68328
 | 2.30536688 31.3384368 35.258774
1.6777384 27.209125 46.66358775
2.35867731 15.748677 104.20988
7.20214095 1.5647333 22.0710228
1.75580228 10769715 15.6641373
6.85595428 2.274845821 31.34987111 | 2 11,7645895 2 26,10436535 2 11,5829727 2 54,32054787 2 13,07833843 2 27,34112549 | 32,99965565 54,27960328
40,40027003 82,97201056
18,4005266 26,97646566
19,6838651 25,2258814
9,028993702 18,54328598
30,79366818 39,46367367 | 66,04419278 35,917237 40,7084523 1,81,8042 12,32035 66,044191
100,72475 54,724609 15,946787 2,4663058 14,0729 109,7764
35,51470233 20,010312 10,019253 50,941546 13,0153 35,5147
79,54454891 78,13598 3,5691877 0,984184 3,844137 75,54844
31,8218244 14,51333 14,2377753 10,936902 15,27747 31,87182 66,9471915 53,124000 2,8273444 0,984973 2,98282 66,944
 | 12,5 2,969440 15,4694485 Continuous Review Policy 12,5 4,964242 17,4642417 Periodic Review Policy 12,5 13,18168 14,218168 Continuous Review Policy 12,5 0,85665 12,5556654 Continuous Review Policy 12,5 2,262162 14,7621624 Periodic Review Policy 12,5 0,08993 12,5892955 Continuous Review Policy |
| Laryn xtu bus Gr. 4
Laryn xtu bus Gr. 5
Lask 40
Leukoplast 2,5 cm (12)
Lidocan
Lysfrenon

 | consumables su
consumables su
consumables su
consumables su
consumables su
medication
consumables su | 3,921529833
8,701455116
3,846099091
18,10684929
4,359446144
9,113708496
2,722915618 | 19,05236007
23,32510677
9,468848447
11,36448482
5,212891944
17,77873261
27,06837582
 | 11,69
11,69
11,69
0,28
18,6
0,35
0,29 | 2,338
2,338
2,338
0,056
3,72
0,07
0,058 | 25
25
25
25
25
25
25 | 1 B
1 A
1 B
1 C
1 A
1 C
1 C
1 C | 0,95
0,98
0,95
0,90
0,98
0,90
0,90 | 9,157786
13,64139
9,069284
127,1488
7,654718
80,68328
48,44937
 | 2.35556681 31.33834586 352569744
1.54771381 47.9501252 6.6656977
2.35864731 15.57486971 19.4256888
7.02144095 14.547431 22.571228
1.355622986 10.70697115 15.05645173
8.8525982286 22.8485681 31.8897111
1.7793391 44.8655143 1.771245303 | 2 11,7645895
2 26,1045635
2 11,59329727
2 54,32054787
2 13,07833843
2 27,3412549
2 8,168746853 | 32,99965565 54,27960328
40,40027003 82,97201056
16,4002566 22,9746566
19,6838651 25,22588814
9,028993702 18,54328598
30,79366818 39,4587367
46,833022 60,08401011 | 66,64419278) 559:7227 10,7254523 18,814942 12,22035 66,84419
100,70375 64,224669 15,844732 12,465028 18,04729 18,9574
38,51474293 20,10512 18,0019025 0,9041544 11,50415 38,51476
79,54454601 72,314568 35,56410776 0,9841548 38,44137 75,54444
31,21214441 13,14331 14,2377571 3,13949031 12,57747 31,27145
66,94479935 53,14602 1,14059151 0,945721 2,17074 16,253276
64,52375967 15,61402 1,14059151 0,945721 4,673247 4,652374
 | 12.6 2.969.449 15.4694.45 Continuous Rever Policy 12.6 4.904.241 17.469.2417 Provide Rever Policy 12.6 1.924.241 17.469.2417 Provide Rever Policy 12.6 4.924.241 17.469.2417 Provide Rever Policy 12.6 1.924.2648 14.231683 Continuous Rever Policy 12.6 0.68666 12.2566824 Continuous Rever Policy 12.6 0.89993 12.589235 Continuous Rever Policy 12.6 0.89993 12.589235 Continuous Rever Policy |
| Lirymxtubus Gr. 4
Lirymxtubus Gr. 5
Lask 40
Leukoplast 2,5 cm (12)
Lidocain
Lysthenon
Lysthenon 500 mg

 | consumables su
consumables su
consumables su
consumables su
consumables su
medication
consumables su
medication | 3,921529833
8,701455116
3,846099091
18,10684929
4,359446144
9,113708496
2,722915618
0,316243609 | 19,05236007
23,32510677
9,468848447
11,36448482
5,212891944
17,77873261
27,06837582
3,882193783
 | 11,69
11,69
0,28
18,6
0,35
0,29
4,58 | 2,338
2,338
2,338
0,056
3,72
0,07
0,058
0,916 | 25
25
25
25
25
25
25
25
25
25 | 1 B
1 A
1 B
1 C
1 A
1 C
1 C
1 C
1 C | 0,95
0,95
0,95
0,95
0,90
0,90
0,90
0,90 | 9,157786
13,44139
9,069284
127,1488
7,654718
80,88328
48,44937
4,154781
 | 2.2305366081 31.33843665 35.25937241
1.67773861 47.29931282 64.65958775
2.258647311 155746971 19.27096881
7.20214095 1.56847333 22.25710226
1.755892281 10.70597115 15.06454731
15.25952282 0.2724582821 31.39897111
1.77931941 34.68951941 37.41245931
1.37931941 34.98951941 37.41245931
3.137931941 34.98951941 37.41245931 | 2 11264895
2 26,10436535
2 11,53829727
2 54,32054787
2 13,07833845
2 27,3412549
2 6,16874655
2 0,44970825 | 32,99965565 54,2760328
40,4007703 82,9720106
16,4065266 26,9746566
19,838651 25,2258814
9,02989702 18,5425581
30,7386618 39,4587387
46,8838022 66,0840101
6,724156878 6,87153773 | 66.4413270 35.917227 10.7054523 15.814842 12.2053 66.4419 1006778275 45.22460 15.846712 24.80528 16.4419 1006778275 45.22460 15.846712 24.80528 16.8419 1006778275 45.22460 15.846712 24.80528 16.801922 16.91242 100678275 45.3308 56.01672 0.801483 34.8147 75.8444 17.8246841 14.5333 14.2377753 16.904873 25.9082 66.8448 68.3467935 55.01402 14.0553161 0.948773 25.9082 66.8448 68.345795 55.01402 14.0553161 0.948773 25.9274 55.8684 9.566846 75.92622 15.028871 0.242372 25.86985 55.01422 14.0553161
 | 123 2.98448 15.64448 Continuous ResemPolity 125 4.96442 17.4642417 Prodict ResemPolity 125 17.31683 14.231683 Continuous ResemPolity 125 17.31683 14.231683 Continuous ResemPolity 125 0.89565 12.556584 Continuous ResemPolity 125 0.08930 12.2589295 Continuous ResemPolity 125 0.076128 12.25762241 Continuous ResemPolity 126 0.676128 12.268103 Continuous ResemPolity 127 0.18921 12.268102 Continuous ResemPolity |
| Larynxhubus Gr. 4
Larynxhubus Gr. 5
Lassk 40
Lassk 40
Las | con sumables su
con sumables su
con sumables su
con sumables su
con sumables su
medication
con sumables su
medication
medication
medication | 3,921529833
8,701455116
3,846099091
18,10684929
4,359446144
9,113708496
2,722915618
0,316243609
4,286538188 | 19,05236007
23,32510677
9,468848447
11,36448482
5,212891944
17,77873261
27,06837582
3,882193783
4,535215741 | 11,69
11,69
11,69
0,28
18,6
0,35
0,29
4,58
2,35 | 2,338
2,338
2,338
0,056
3,72
0,07
0,058
0,916
0,47 | 25
25
25
25
25
25
25
25
25
25
25
25
25 | 1 B
1 A
1 B
1 C
1 A
1 C
1 C
1 C
1 C
1 C
1 C | 0.95
0.98
0.95
0.95
0.96
0.96
0.96
0.90
0.90
0.90 | 9,157786
13,44139
9,069284
127,1488
7,654718
80,68328
48,44337
4,154781
21,3545 | 2.35556681 31.33834586 352569744 | 2 11,7445895
2 26,1049535
2 11,53829727
2 54,3204787
2 13,07833843
2 7,34112549
2 8,169746553
2 0,948730826
2 12,25961456 | 32,99965565 54,27660328
40,4002708 52,3720.056
19,6306526 26,37246566
19,653651 252,5263814
9,02893702 18,54328598
30,73866518 33,46387387
46,635022 60,640302 60,60011
6,724156878 6,817353773
7,55522407 10,06687473 | 66,64419278) 559:1227 10,256423 18,614942 12,22031 66,94419
100707375 64,224606 15,464732 12,4665028 14,06122 18,09276
38,51476431 20,109512 16,0610920 0,041403 34,4117 75,6464
31,2126441 18,3331 44,237753 1,3049021 15,27373 2,08892 66,044
66,9479915 63,124003 12,035161 0,0451103 2,04512 13,27374
56,04646 73,514021 14,051615 0,045121 2,17374 14,51252
56,06646 73,51403 15,1052877 0,122347 2,22724 5,566865
22,2524693 5,046935 5,5135077 0,142394 2,22346 2,22346 | 12.1 2.094449 15.645445 Controus Rewerking 12.6 4.09442 17.84445 Controus Rewerking 12.6 4.09442 17.84445 Controus Rewerking 12.6 4.09442 17.84445 Controus Rewerking 12.6 0.84565 11.2556544 Controus Rewerking 12.6 0.64511 12.452424 Heroic Rewerking 12.6 0.64511 12.8761241 Controus Rewerking 12.6 0.64511 12.8761241 Controus Rewerking 12.6 0.64511 12.856151 Controus Rewerking 12.6 0.64511 12.2767221 Controus Rewerking |
| Larynxhubus Gr. 4
Larynxhubus Gr. 5
Lasik 40
Levkoplan 2,5 cm (12)
Lidocain
Lynthmon 500 mg
Metil Zange go 8
Megil Zange go 8

 | consumables su
consumables su
consumables su
consumables su
consumables su
medication
medication
medication
medication | 3,921529833
8,701455116
3,846099091
18,10684929
4,359446144
9,113708496
2,722915618
0,316243609 | 19,05236007
23,32510677
9,468848447
11,36448482
5,212891944
17,77873261
27,06837582
3,882193783
 | 11,69
11,69
11,69
0,28
18,6
0,35
0,29
4,58
2,35
2,35 | 2,338
2,338
2,338
0,056
3,72
0,07
0,058
0,916
0,47
0,47 | 25
25
25
25
25
25
25
25
25
25
25
25
25
2 | 1 B
1 A
1 B
1 C
1 A
1 C
1 C
1 C
1 C
1 C
1 C
1 C
1 C | 0,95
0,98
0,95
0,90
0,98
0,90
0,90
0,90
0,90
0,90 | 9.157766
13.64139
9.069284
127.1488
7.654718
80.88328
88,44937
4.154781
21.3545
16.26743
 | 2.2305366081 31.33843665 35.25937241
1.67773861 47.29931282 64.65958775
2.258647311 155746971 19.27096881
7.20214095 1.56847333 22.25710226
1.755892281 10.70597115 15.06454731
15.25952282 0.2724582821 31.39897111
1.77931941 34.68951941 37.41245931
1.37931941 34.98951941 37.41245931
3.137931941 34.98951941 37.41245931 | 2 11.7464585 2 26.0436535 2 11.58229727 2 54.32054787 2 13.97333843 2 27.34132849 2 8.616746551 2 0.946730826 2 11.380541466 2 7.452642343 | 32,99965565 54,2760328
40,4007703 82,9720106
16,4065266 26,9746566
19,838651 25,2258814
9,02989702 18,5425581
30,7386618 39,4587387
46,8838022 66,0840101
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0,4473428 2 0,4473428 2 0,4473428 2 0,4473428 2 0,4473428 2 0,4473428 2 0,4524441 2 5,35249441 2 5,35249451 2 5,3734845 2 5,3734845 2 5,3734845 2 12,3734446 2 12,3734446 2 12,3734446 2 12,3734446 2 12,3734446 2 13,378446 2 13,378446 2 13,3784645 2 13,3784645 2 13,3784645 2 13,3784645 2 13,3784645 2 13,3784645 2 13,3786645 2 14,3734646 2 13,3784645 2 14,3796655 2 14,3796655 2 14,3796655 2 14,3796655 2 14,3796655 2 14,3796655 2 14,3796655 2 14,3796655 2 14,3796655 2 14,3796555 2 14,3796555 2 2,34745555 2 7,38555758 2 2,3726955 2 2,3727895 3 2,3726955 2 3,3726955 2 3,3726955 2 3,372695 2 3,372695	32,29965656 94,27960320 44,0002700 82,9720156 14,0002560 82,9720156 18,803862 18,25258814 9,02893702 18,4528594 9,02893702 18,4528594 9,02893702 18,4528594 9,02893702 18,4528594 14,021852 19,0285787 7,84524407 10,0487473 7,84524407 10,0487473 14,0218521 19,127234 14,0218521 19,127234 14,0218521 19,127234 15,5259559 32,049444 16,9744155 22,22503594 10,9098877 13,973874 11,55525969 32,049444 10,9098877 13,973874 11,95585702 12,12843904 4,0218125 0,0217222 9,02856702 11,9843904 4,0218125 0,0217222 9,02856702 11,9843904 4,0218125 0,0217222 9,02856702 11,9843904 4,0218125 0,0217222 9,02856702 11,9843904 4,0218125 0,0217222 9,02856702 11,9843904 4,0218125 0,0217222 9,02856702 11,9843904 4,0218125 0,0217222 9,02856702 11,9843904 10,020857 13,72209 11,020954 12,222075 11,020954 12,22207 12,0442727 13,0219540 14,127209 14,127209 15,220947 13,326295 12,221951566 3,02726731 20,123804 12,0239265 12,22135056 3,02726731 20,123804 12,0239265 12,22135056 3,02726731 20,123804 12,0239265 12,22135056 3,02726731 20,123804 12,0239265 12,0239265 12,0239265 12,0239265 12,0239265 12,0239265 12,023927 12,02495 12,024956 12,023977 12,02495 12,02495 12,02495 12,02495 12,02497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04497 12,04597 12,04597 12,04597 12,04597 12,04597 12,04597 12,04597 12,04597 12,04597 12,04597 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3.927146 0.453814 12.3444 12.52115 5.267.8417 12.3347 3.927146 0.453814 12.3444 12.52115 5.257.8417 12.33481 3.937147 0.548885 12.93715 12.93715 5.252.33417 12.93844	12.1 2.98440 15.46445 Controus Remericity 12.4 4.96445 Controus Remericity 12.4 4.96445 Controus Remericity 12.4 1.96445 Controus Remericity 12.5 4.956447 1.96646 12.6 1.975163 1.425143 12.6 1.956564 1.96646 12.6 0.95657 1.2556644 Controus Remericity 12.6 0.95721 1.227222 Controus Remericity 12.6 0.95721 1.227222 Controus Remericity 12.6 0.97521 1.2372722 Controus Remericity 12.6 0.977521 1.2372722 Controus Remericity 12.6 0.977511 1.2372722 Controus Remericity 12.6 0.977511 1.237292 Controus Remericity 12.6 0.977511 1.237292 Controus Remericity 12.6 0.976511 1.237292 Controus Remericity 12.6 0.966411 1.2716420 Controus Remericity 12.6



ProductName	↓ ↑ Type ▼ Forecas	sted demand (weeks) 🔻 Stand	ard deviation (week) 💌 Un	nitpric 🔻 Hol	lding cos 🔻 Order	ing cost 🔻 Lead ti	me(week) 💌 Class 💌	CSL Continuous Review	Policy 🔻 EOQ 🔻 Frequenc	cyoftheorders (weeks) 💌 Szfety Stock 💌 Reorder Poin 💌 Periodic Review P	Policy 🔻 Review Period (T	▼ Mean duringT+Lperio ▼ Sta	ndard deviation during T+L period 🔻 Safety Stock2 💌 Or	der up-to level(OUL 💌 AlL 🔍 Ordering C 💌 Holding 🖤 Total co 🖤 AlL2 🔍 Orde	ring Cost3 👻 Holding 👻 Total cost2 💌 Selected Policy 🔍
Perfusor Spritze	con su mables su	8,365695445	21,72747876	0,33	0,066	25	1 0	0,90	79,60935	9,516166004 27,84488442 36,21057987		2 25,09708633	37,63309714 48,22875455	73,32584088 67,649558 2,62710844 0,0858629 2,712971 73,32584	12,5 0,093067 12,5930674 Continuous Review Policy
PortNadel	con su mables su	0,918394637	2,182575626	7,45	1,49	25	1 C	0,90	5,551451	6,044734057 2,797083211 3,715477848		2 2,755183911	3,780331876 4,844690234	7,599874145 5,5728089 4,13583125 0,1596824 4,295514 7,599874	12,5 0,217766 12,7177656 Continuous Review Policy
Propolol	medication	6,952984746	10,82785409	0,81	0,162	25	1 0	0,90	46,32476	6,662571099 13,87645336 20,82943811		2 20,85895424	18,75439342 24,03472225	44,89367649 37,038831 3,75230517 0,1153902 3,867695 44,89368	12,5 0,139861 12,6398611 Continuous Review Policy
Recto delt 100 mg	medication	4,697306156	14,83520587	1,25	0,25	25	1 C	0,90	30,65063	6,525150971 19,01208131 23,70938747		2 14,09191847	25,69533032 32,92989079	47,02180926 34,337397 3,83132898 0,1650836 3,996413 47,02181	12,5 0,226066 12,7260664 Continuous Review Policy
Replan tatbeutel Arm	con su mables su	1,665022628	12,96779227	9,23	1,846	25	18	0,95	6,715513	4,033286603 21,33012015 22,99514278		2 4,995067883	22,46087507 36,94485183	41,93991971 24,687877 6,19841892 0,8764196 7,074839 41,93992	12,5 1,488867 13,9888671 Continuous Review Policy
Replan tatb eu tel Bein	con sumables su	0,909218876	4,57165178	13,98	2,796	25	1 B	0,95	4,03228	4,434883308 7,519698012 8,428916887		2 2,727656627	7,918333158 13,02449901	15,75215564 9,5358378 5,6371269 0,5127347 6,149862 15,75216	12,5 0,846981 13,3469813 Continuous Review Policy
Rettungsdecke Gold/Silber	con su mables su	20,50553525	34,82194971	0,5	0,1	25	1 C	0,90	101,256	4,93798137 44,62612417 65,13165942		2 61,51660576	60,31338612 77,29471441	138,8113202 95,2541 5,06279755 0,183181 5,245979 138,8113	12,5 0,266945 12,7669448 Continuous Review Policy
Rocuronium 100mg	medication	6,731702868	32,1963672	4,45	0,89	25	1 B	0,95	19,44699	2,888866879 52,95831136 59,69001422		2 20,1951086	55,7657438 91,72648595	111,9215946 62,681808 8,65391209 1,0728233 9,726735 111,9216	12,5 1,915581 14,4155811 Continuous Review Policy
Sab simplex Tropfen	medication	0,320691937	3,012096823	1,78	0,356	25	1 C	0,90	6,711259	20,92743408 3,860157399 4,180849337		2 0,962075812	5,217104735 6,685988741	7,648064553 7,2157871 1,19460417 0,0494004 1,244005 7,648065	12,5 0,05236 12,5523598 Continuous Review Policy
Safety Multifly Kanülen	con su mables su	8,588203112	212,7885563	0,45	0,09	25	1 C	0,90	69,07405	8,04289861 272,6995075 281,2877106		2 25,76460934	368,5605908 472,3294021	498,0940115 307,23653 3,10833211 0,5317555 3,640088 498,094	12,5 0,862086 13,3620858 Continuous Review Policy
Salbutamol	med icatio n	90,77453918	69,03863653	0,12	0,024	25	1 C	0,90	434,872	4,790682122 88,47657272 179,2511119		2 272,3236176	119,5784261 153,2459192	425,5695368 305,91255 5,21846354 0,1411904 5,359654 425,5695	12,5 0,196417 12,6964167 Continuous Review Policy
Sam SplintBein	con su mables su	3,150212987	5,517877282	7,59	1,518	25	1 B	0,95	10,18636	3,233546849 9,07610046 12,22631345		2 9,450638962	9,557243802 15,72026713	25,17090609 14,169281 7,73144821 0,413634 8,145082 25,17091	12,5 0,734797 13,2347968 Continuous Review Policy
Sam SplintSet	con su mables su	8,584566816	12,44624807	16,1	3,22	25	1 A	0,98	11,54559	1,344924403 25,56146841 34,14603522		2 25,75370045	21,55753401 44,273762	70,02746244 31,334265 18,5884054 1,9403141 20,52872 70,02746	12,5 4,336316 16,8363159 Periodic Review Policy
Sharpsafe	con su mables su	10,67607791	15,20765358	3,17	0,634	25	1 B	0,95	29,01658	2,717906461 25,01436414 35,69044205		2 32,02823372	26,34042866 43,32614961	75,35438333 39,522655 9,19825622 0,4818724 9,680129 75,35438	12,5 0,918744 13,4187438 Continuous Review Policy
Sharpsafemini	con su mables su	69,52049154	40,56158804	0,83	0,166	25	1 A	0,98	144,7063	2,081491018 83,30331725 152,8238088		2 208,5614746	70,25473132 144,2855779	352,8470525 155,65646 12,0106211 0,4969033 12,50752 352,8471	12,5 1,126396 13,6263964 Continuous Review Policy
Silberwindeln	con su mables su	1,705368344	9,701803956	4,9	0,98	25	1 C	0,90	9,327839	5,469691924 12,43336205 14,13873039		2 5,116105032	16,80401738 21,53521478	26,65131981 17,097282 4,57064134 0,322218 4,892859 26,65132	12,5 0,502275 13,0022749 Continuous Review Policy
Sterofundin	med icatio n	500,344043	196,8165389	0,52	0,104	25	1 A	0,98	490,459	0,980243488 404,2117524 904,5557954		2 1501,032129	340,8962452 700,1152922	2201,147421 649,44125 25,5038675 1,2988825 26,80275 2201,147	12,5 4,402295 16,9022948 Periodic Review Policy
Tavor 2,5mgExpidetPlätchen	medication	14,83642069	32,75563796	0,16	0,032	25	1 C	0,90	152,2561	10,26231741 41,97803911 56,8144598		2 44,50926208	56,73442918 72,70809654	117,2173586 118,10607 2,43609694 0,0726807 2,508778 117,2174	12,5 0,072134 12,5721338 Continuous Review Policy
Thoraxdrainage CH 14	con su mables su	1,646521282	6,042776805	13,5	2,7	25	1 B	0,95	5,521878	3,353663203 9,939483345 11,58600463		2 4,939563847	10,46639645 17,21569015	22,155254 12,700422 7,45453508 0,659445 8,11398 22,15525	12,5 1,150369 13,650369 Continuous Review Policy
Thoraxdrainage CH 24	con su mables su	1,621457179	6,042776805	13,95	2,79	25	1 B	0,95	5,390582	3,324529252 9,939483345 11,56094052		2 4,864371538	10,46639645 17,21569015	22,08006169 12,634774 7,51986164 0,6779042 8,197766 22,08006	12,5 1,18468 13,6846802 Continuous Review Policy
Thoraxdrain age CH 30	con su mables su	1,442745908	6,042776805	13,95	2,79	25	1 B	0,95	5,084846	3,524422579 9,939483345 11,38222925		2 4,328237724	10,46639645 17,21569015	21,54392788 12,481906 7,09336053 0,6697023 7,763063 21,54393	12,5 1,155915 13,6559146 Continuous Review Policy
Thoraxdrain age Chir. Schere	con su mables su	2,131219244	6,042776805	1,84	0,368	25	1 C	0,90	17,01669	7,984487188 7,744130075 9,875349319		2 6,393657732	10,46639645 13,41322675	19,80688448 16,252476 3,13107147 0,1150175 3,246089 19,80688	12,5 0,140172 12,6401718 Continuous Review Policy
Thoraxdrain age Heimlich ventil	con su mables su	1,87117157	6,042776805	13,8	2,76	25	1 8	0,95	5,822202	3,111527588 9,939483345 11,81065491		2 5,613514709	10,46639645 17,21569015	22,82920486 12,850584 8,03463871 0,6820695 8,716708 22,8292	12,5 1,211704 13,711704 Continuous Review Policy
Tourniquet	con su mables su	7,114907328	11,032665	28	5,6	25	1 A	0,98	7,970317	1,120227848 22,65832372 29,77323105		2 21,34472198	19,10913632 39,2453679	60,59008989 26,643482 22,3168885 2,8692981 25,18619 60,59009	12,5 6,525087 19,0250866 Periodic Review Policy
Tubuskiemme	con su mables su	0,334759905	1,303840481	9,9	1,98	25	1 C	0,90	2,907496	8,6853173 1,67093881 2,005698715		2 1,004279715	2,258317958 2,894150915	3,89843063 3,1246868 2,87842103 0,1189785 2,997399 3,898431	12,5 0,14844 12,6484402 Continuous Review Policy
Tubusverlängerung (25)	con su mables su	1,324465354	1,12815215	24,75	4,95	25	1 B	0,95	3,657655	2,761608441 1,855645155 3,180110509		2 3,973396063	1,954016842 3,214071689	7,187467752 3,6844725 9,05269539 0,3507334 9,403429 7,187468	12,5 0,684192 13,1841916 Continuous Review Policy
Ultracarbon	medication	0,789866074	1,555050423	11,83	2,366	25	1 0	0,90	4,085586	5,172504793 1,992877304 2,782743378		2 2,369598222	2,693426341 3,451764744	5,821362966 4,0356703 4,8332483 0,183623 5,016871 5,821363	12,5 0,264872 12,764872 Continuous Review Policy
Ultrasch aligel	con su mables md	1,816375462	9,070013865	2,22	0,444	25	1 C	0,90	14,30199	7,873914669 11,62369047 13,44006593		2 5,449126387	15,70972484 20,13282246	25,58194885 18,774683 3,17504076 0,1603069 3,335348 25,58195	12,5 0,21843 12,7184305 Continuous Review Policy
Universalh alter	accesso ries	8,111773491	16,50803294	1,62	0,324	25	1 8	0,95	35,38102	4,36168793 27,15329785 35,26507134		2 24,33532047	28,59275178 47,03089148	71,36621195 44,84381 5,73172597 0,2794114 6,011137 71,36621	12,5 0,444666 12,9446664 Continuous Review Policy
Urinkatheter CH 14	con su mables su	0,643650826	1,802775638	6,66	1,332	25	1 C	0,90	4,915391	7,636735067 2,310349941 2,954000767		2 1,930952477	3,122498999 4,001643481	5,932595958 4,7680454 3,27365029 0,1221353 3,395786 5,932596	12,5 0,151966 12,6519657 Continuous Review Policy
Urin kath eter CH 16	con su mables su	0,686587389	1,802775638	6,66	1,332	25	1 C	0,90	5,076692	7,39409419 2,310349941 2,99693733		2 2,059762168	3,122498999 4,001643481	6,061405649 4,8486959 3,38107676 0,1242012 3,505278 6,061406	12,5 0,155265 12,6552652 Continuous Review Policy
Urinkatheter Set DKM	set	0,734296823	1,763834207	9,06	1,812	25	1 C	0,90	4,501339	6,130135596 2,26044449 2,994741312		2 2,202890468	3,055050463 3,915204704	6,118095172 4,511114 4,07821322 0,157195 4,235408 6,118095	12,5 0,213192 12,7131921 Continuous Review Policy
Vecuronium Inresa	medication	0,489694178	1,632993162	5,24	1,048	25	1 0	0,90	4,833557	9,87056222 2,092764943 2,582459121		2 1,469082534	2,828427125 3,62477521	5,093857744 4,5095434 2,53278379 0,0908846 2,623668 5,093858	12,5 0,102661 12,6026608 Continuous Review Policy
Vomex	medication	34,56701965	28,26645404	0,9	0,18	25	1 B	0,95	97,98954	2,834769695 46,49417946 81,06119911		2 103,701059	48,95893455 80,53028107	184,23134 95,488949 8,81905858 0,3305387 9,149597 184,2313	12,5 0,637724 13,1377239 Continuous Review Policy
ZVK Gr. 1	con su mables su	0,281499847	2,149196971	9,9	1,98	25	1 C	0,90	2,666192	9,471381405 2,754306743 3,035806589		2 0,84449954	3,722518349 4,770599218	5,615098758 4,0874029 2,63953049 0,1556357 2,795166 5,615099	12,5 0,213806 12,7138057 Continuous Review Policy
ZVK Gr. 12	con su mables su	0,519129177	1,951800146	58,1	11,62	25	1 B	0,95	1,494582	2,879016931 3,210425549 3,729554726		2 1,557387531	3,380617019 5,560620165	7,118007696 3,9577164 8,68351962 0,8843974 9,567917 7,118008	12,5 1,590601 14,090601 Continuous Review Policy
ZVK Gr. 2	con su mables su	0,551004318	2,458545189	16,5	3,3	25	1 C	0,90	2,889386	5,243853269 3,150752435 3,701756754		2 1,653012955	4,258325179 5,4572633	7,110276255 4,5954453 4,76748656 0,291634 5,059121 7,110276	12,5 0,451229 12,9512291 Continuous Review Policy

Figure C.3



Appendix D

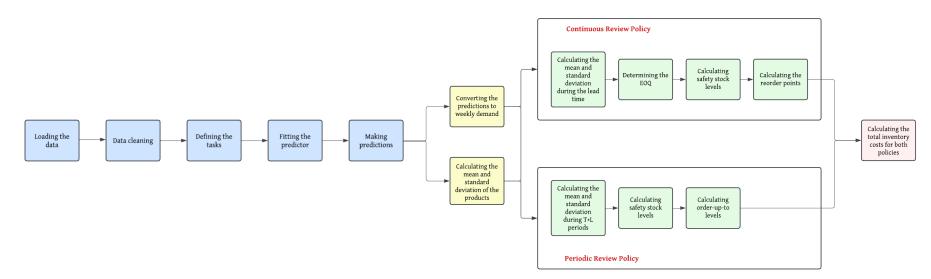


Figure D.1

Generative AI was used to getting ideas for spell check in this assignment.