A Study on Inventory Management in Al Ain Hospital

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Abstract— The paper discusses each aspect about the inventory management that why there is this issue and what should be done to deal with this issue to make the inventory system that includes supply chain management more effective and advance. There are some issues in the warehouse itself that can be improved to solve this issue but this topic includes many topics to be shared and go to their details to know the depth of the issue and the reason behind this problem. The topics will cover the problems, the identification of the problems, the characteristics, the reasons, objectives, the solution, analysis of the problem and many more topics that includes some paragraphs of the discussion on the regarding issues. Then we discussed about survey that includes several questions that is related to the research topic to know what are employees point of view and how many of the employees are facing the same problem regarding this issue, this can be seen by the graphical results that we would prepare on excel through the questioner results. Each and every topics includes details and discussion of the same issue to know what is the reason behind it what are the roots beneath the issue that is growing this problem into a big tree with the branches as personally me is facing this issue that if some product is not available in the warehouse is a problem, so these are some highlights that will be discussed below. The research can make some prospective to give ahead some improved solution to the organization to get efficient and accuracy in the systems OD supply chain management that can help hospital to operate various function to some extent. The end of this paper included the opinions and solutions that will be discussed and details with own experience and work or tasks done in

Keywords— supply chain, inventory management, inventory system, effectiveness, management.

1. Introduction

Al-Ain hospital is one of the largest wide range health care hospitals in the region of Alain. It

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includes 713 beds, Alain hospital is going to make new extension that includes the wide area with tall buildings with lots of rooms and beds.

The paper is the basic thing to show the experience which is done by many scholars and that includes research to show their Experience is accurate by their personal experience so as this paper do. The paper is basically the Alain hospital experience as an employee.

The temporary position program is intended to give understudies occupied with a field involvement with a chance to share their bits of knowledge, to investigate the connections between understudies' scholarly readiness and their field work, and to help members in creating and doing the real research extend which will serve to come full circle their entry level position understanding. Temporary jobs are individualized and customized to the necessities and interests of every understudy in the program. As a major aspect of the temporary job involvement, understudies are relied upon to play a dynamic part in finding a fitting entry level position for themselves.

2. Statement of problem

The problem in this study is defined as logistics problem that is related to the supply chain management includes the products or inventories in the stores or warehouse that needs to be managed and create an efficient system of inventories as this could be a crucial issue regarding the supply an management. The problem identifies that there are some issues that sometime there are shortage of the items or there is totally unavailability of the products that makes suffer the whole department and sometimes the whole organization, the problem includes the suppliers inconvenience or shipping or transportation problem or sometime the stock shortage and also the timing issue that makes this issue very sensitive sometimes.

Int. J Sup. Chain. Mgt Vol. 8, No. 2, April 2019

The most important and crucial problem that states in a single line is that of Inventory Management is a crucial issue in supply chain management, This states that how important the inventory management is which is one of the pillar regarding the functions and operations of the organization. This issue can lead to a very serious problem which could make the organization to lead the functions and operations running in the different departments unusual. This issue makes suffer many practitioners and pharmacist sometimes as they don't get the items on time according to their feasibility and this make them delay their work which effects in many ways to different people and categories.

3. Objective of study

The motivation behind research can be an entangled issue and shifts crosswise over various logical fields and teaches. And no more fundamental level, science can be part, freely, into two sorts, 'unadulterated research' and 'connected research'. Be that as it may, they all include creating a hypothesis to clarify why something is going on and utilizing the full battery of logical instruments and techniques to test it thoroughly. This procedure opens up new regions for further review and a proceeded with refinement of the speculations. Perception is not sufficiently precise, with factually testable and analysable information the main outcomes acknowledged over every single logical train. The correct way of the test procedure may change, yet they all hold fast to similar fundamental standards.

Researchers can be obstinate, similar to any other individual, and regularly will cling to their own particular speculations, regardless of the possibility that the confirmation indicates something else. Research is an apparatus by which they can test their own, and every others' speculations, by utilizing this enmity to discover an answer and propel information.

The reason for research is truly a progressing procedure of rectifying and refining theories, which ought to prompt to the acknowledgment of certain logical truths.

While no logical evidence can be acknowledged as extreme truth, thorough testing guarantees that verifications can get to be assumptions. Certain essential assumptions are made before leaving on any exploration venture, and expand upon this steady amassing of learning.

3.1 Methodology of study

In view of, in addition to discussing tasks and about the warehouse or logistics area and the issues concerning the inventory management, while studying or researching about this got to be a planning and proposal for the betterment.

The procedure used to collect statistics in addition figures by means of the end goal of settling on occupational adoptions. The procedure may incorporate production inquire about, meetings, reviews and other research methods, and could incorporate both present and chronicled information. Document that is regularly composed by a researcher or scholastic which depicts the thoughts for an examination on a specific theme. The examination proposition diagrams the procedure from start to finish and might be utilized to demand financing for the venture, confirmation for playing out specific parts of research of the test, or as a required errand before starting a school paper.

The strategies area depicts the basis for the utilization of particular methods or systems used to distinguish, select, and break down data connected to understanding the examination issue, along these lines, permitting the perused to fundamentally assess a review's general legitimacy and unwavering quality.

The system segment of an exploration paper answers two principle questions: How was the information gathered or produced? Furthermore, how was it dissected? The composition is coordinated and exact and constantly written in the previous tense.

Target audience:

- The management
- Supervisors
- Material logistics department
- Other department's employees
- Operational departments
- Colleagues
- Internal and external customers
- Including all the administration
- Inventory management department.

Int. J Sup. Chain. Mgt Vol. 8, No. 2, April 2019

Qualitative & Quantitative Data :-

There are two general sorts of information. Quantitative information will be data about amounts; that is, data that can be measured and recorded with numbers. A few cases of quantitative information are your tallness, your shoe measure, and the length of your fingernails. Talking about which, it may be an ideal opportunity to call Guinness. You must be near breaking the record.

Subjective information will be data about qualities; data that can't really be measured. A few cases of subjective information are the non-abrasiveness of your skin, the effortlessness with which you run, and the shade of your eyes. In any case, have a go at disclosing to Photoshop you can't quantify shading with numbers.

Number of questions asked was: 7 questions in total which could be answered by the choice of answerer

Questions was asked to: employees working within the logistics department concerning inventory management

There was a good response by the employees for accepting the survey as there were about 80% of employees responded to it while other couldn't answer due to busy schedule.

3.1.1 Literature about the company

Al Ain Hospital incorporates:

- Mother and Child Family Medicine
- Particular injury, orthopaedics and games drug units
- Provincial Centre of Excellence in Rehabilitation Medicine
- 40 bed basic care unit
- First committed stroke unit in UAE
- Cutting edge cardiology unit
- Research and Training place for medicinal services experts

3.1.2 The Departments

Emergency medicine

Medical services (medicines from own

pharmacy)

Neurosurgery

Obstetrics & gynecology

Ophthalmology

Orthopedics

Otolaryngology

Pediatrics

Psychiatry

Radiology

Surgery

3.1.3 Strategic management planning

Al Ain Hospital and the related Family Medical Centers from August 31/2017 when the five-year administration contract with VAMED and Medical University of Vienna (MUV) lapses. It said after watchful thought of its earlier system of outsourced healing facility administration, it won't look for restoration of the administration contract.

SEHA was set up in 2007 as a major aspect of the Government of Abu Dhabi's extensive medicinal services change activity expecting to give the general population social insurance benefits that match the most noteworthy worldwide models.

"We will likely make a world-class incorporated human services framework. At this stage, we are reassessing the arrangement of healing centre administration that depends on our worldwide accomplices. Both VAMED and MUV have been enduring accomplices of SEHA since 2007 and we definite appreciativeness headed for them intended for their support," said Carl Stanifer, head of the company intended for SEHA Corporate. "Alongside SEHA, they have gained striking ground in helping Al Ain Hospital and the related Family Medical Centers accomplish social insurance benefit in accordance with universal principles. Our entryway will dependably be interested in working with accomplices like these. "I am sure this move will happen with no patient administration interruptions. VAMED and MUV are incredible administrators and the healing facility is in prime condition. For the patient and the normal worker, there will be no adjustment in the unremarkable schedule. We expect to make this as smooth as workable for everybody." he included.[2]

Allen and Shariff is providing one of the huge Project Management organizations to the Al Ain Hospital Project. The layout time of Al Ain Hospital began in 2009, with advancement complete reserved for 2015. The Al Ain Hospital is the area of about large number 358,000 sq. meter, about 713 Beds in the Hospital, and will include one of the underground ceasing office for 1500 cars and other hospital vehicles. The new bleeding edge extraordinary specialist's office is laid out as per German building standards, which are among the most stringent on the planet, and its clinical organizations will meet European social protection models. There are 713 beds, 150 beds which will be given for recuperation. Being founded on the theme of a 'Recovering Oasis', the new office is planned to

Int. J Sup. Chain. Mgt Vol. 8, No. 2, April 2019

combine the neighborliness of a betray plant town with bleeding edge therapeutic organizations.[4]

3.1.4 Industry analysis

Daman the health insurance company in UAE (Al ain) is the area's driving specific wellbeing back up plan, giving complete medical coverage answers for more than 2.4 million individuals in the UAE.

Since its foundation in 2006, Daman has been the accomplice of decision for some of the nation's most conspicuous associations and multinational organizations, in different enterprises including oil and gas, aviation, vitality, development, speculations, and media.

Daman is an open business entity 80% claimed by the Abu Dhabi Government, with the staying 20% possessed by Munich Re, one of the world's driving reinsurers. Munich Re satisfies an imperative part as both reinsurer and an important hotspot for learning exchange.

Daman offers a scope of medical coverage gets ready for both people and associations. A pioneer in human services protection, the organization drives development through a blend of best in class innovation and social insurance related mastery offered by an exceptionally gifted and educated workforce. Daman works an all day, every day client call focus and has a therapeutic administrations approval group in direct contact with medicinal services suppliers. It additionally gives a different scope of online administrations that are unmatched in the UAE.

3.1.5 Organization analysis

While conducting the study we were able to know that there could be some inventory policies and rules that can change the management of the inventories and logistics to efficient system by removing some points of a gap concerning the store management and the suppliers who supplies the products. The inventory management could be more efficient by applying new systems and knowledge to work and operation process. Hence this problem issue could lead to a big problem in future if not taken into a focus for the organization's operational process.

Organizational analysis regarding the inventory management gives associations an unmistakable photo of the particular abilities their workforce has at the individual, departmental and hierarchical levels. Joining a procedure of meetings, occupation examination and looking over, this data gives a strong establishment and beginning stage to construct:

Individual and authoritative preparing plans

Hierarchical preparing spending plans

Profession pathways

Progression arranges

Learning administration arranges

Hazard relief arranges

Effective usage of these administrations regularly brings about enhanced utilization of preparing assets, worker assurance, representative maintenance and business execution.

• Marketing analysis

Searching for an information driven way to deal with drive your ability administration activities? Pondering which activity in your clothing rundown ought to hold the top need position?

Give us a chance to help by building up your association's Skills Balance Sheet - giving you a 360 degree perspective of the abilities, obligations and undertakings performed inside your organization - data you have to improve, quicker, more intelligent choices and manufacture a superior workforce.

Odds are, you have known about a budgetary "Monetary record." A money related accounting paper condenses an association's benefits, value and liabilities at a particular point in time; an asset paper is regularly portrayed as a "preview of an organization's monetary condition." We know this data is vital, and we realize that investing energy dissecting the abilities, duties and assignments performed inside your organization is the way to guaranteeing proceeded with achievement!

Procedure for evaluating worker aptitudes influences the framework, created from more than 30 years of involvement in workforce advancement and modified preparing. We get everyone talking a similar dialect by creating errand based occupation profiles with topic specialists and assessing representatives against particular obligations and assignments. We distinguish preparing and improvement needs of current representatives inside an association, helping both people and associations achieve their true abilities.

• HR related analysis

The objective of HR examination is to furnish an association with bits of knowledge for adequately overseeing representatives so that business objectives can be come to rapidly and effectively. The test of HR examination is to recognize what

information ought to be caught and how to utilize the information to demonstrate and anticipate abilities so the association gets an ideal rate of return (ROI) on its human capital.

Albeit most associations have enough information to make examination helpful, the information is frequently made and put away in various places in numerous organizations. There is no lack of sellers who offer committed HR investigation programming items, however many organizations just make a custom information stockroom for HR information and use business insight (BI) applications on top. Different organizations utilize information alliance innovation to total information from unique sources in a virtual database.

Secondary data

The first is whether secondary data investigation of subjective reviews is reasonable, qualitative and quantitative, given that it is frequently thought to include a between subjective connection between the specialist and the inquired about. Accordingly, it might be contended that even where essential information is accumulated by means of meetings or perception in subjective reviews, there might be more than one scientist included. Henceforth inside the examination group the information still must be contextualized and deciphered by the individuals who were absent. A more radical reaction is to contend that the outline, direct and examination of both subjective and quantitative research are constantly dependent upon the contextualization and translation of subjects' circumstance and reactions. Consequently, optional investigation is not any more risky than different types of observational request, all of which, at some stage, rely on upon the scientist's capacity to shape basic bits of knowledge in view of between subjective understandings. The second issue concerns the issue of where essential examination stops and auxiliary examination begins. Subjective research is an iterative procedure and grounded hypothesis specifically requires that inquiries experience a procedure of definition and refinement after some time.

operational analysis

The operational examination and displaying and reenactment ability envelops the utilization of straightforward investigation apparatuses and procedures, for example, spreadsheet examination, advancement devices and delicate demonstrating, through weapon framework evaluation (counting lethality examination) to constrain level centered devices and techniques, for example, wargames (PC based ill-disposed and furthermore open "course" wargames).

Our staffs are exceptionally experienced in utilizing these strategies for some applications including power organizing and uses and advantages of novel frameworks.

- Themes and territories secured include:
- Operational investigation
- Choice investigation and judgmental evaluation
- Hazard and unwavering quality displaying
- Probabilistic displaying with Bayesian systems and impact charts

Reproduction strategies including discrete-occasion, framework progression, and operator based and crossover approaches

- Reproduction and demonstrating as virtual and valuable reenactments crosswise over obtaining, experimentation and preparing
- Scientific demonstrating including battle and strategic displaying
- Displaying and recreation of: compressible liquid stream; strong mechanics including sway.
- Logical figuring
- Programmed separation of PC projects
- Factual examination
- Innovation upgraded learning.

4 Data Analysis and Survey sampling

Examining strategies are named either likelihood or nonprobability. In likelihood tests, every individual from the populace has a known non-zero likelihood of being chosen. Likelihood strategies incorporate arbitrary inspecting, efficient testing, and stratified examining. In nonprobability examining, individuals are chosen from the populace in some non-random way. These incorporate accommodation testing, judgment examining, quantity inspecting, and snowball inspecting. The upside of likelihood testing is that examining blunder can be figured. Testing mistake is how much a specimen may contrast from the populace. When inducing to the populace, results are accounted for give or take the testing mistake. In nonprobability examining, how much the example varies from the populace stays obscure.

Arbitrary inspecting is the purest type of likelihood testing. Every individual from the populace has an equivalent and known possibility of being chosen. At the point when there are extensive populaces, it is regularly troublesome or difficult to recognize each individual from the populace, so the pool of accessible subjects winds up noticeably one-sided.

Methodical inspecting is regularly utilized rather than arbitrary testing. It is likewise called an Nth name determination system. After the required

specimen measure has been ascertained, each Nth record is chosen from a rundown of populace individuals. For whatever length of time that the rundown does not contain any concealed request, this examining technique is in the same class as the arbitrary testing strategy. Its exclusive preference over the irregular inspecting strategy is effortlessness. Precise testing is every now and again used to choose a predefined number of records from a PC document.

Q2: Is there enough security camera always alerted and watched for inventories

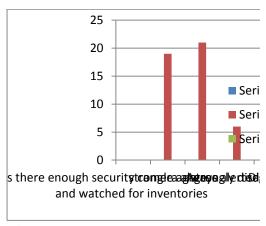


Figure 2. Is there enough security camera

Q3: High tech and advanced barcode laser technology should be used

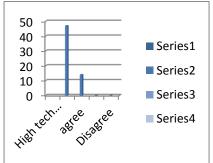


Figure 3. High tech and advanced barcode

Q6: An inventory tracking system that should fits organizations budget, especially when monitoring inventory levels

5 Graphical view of the survey results (charts and histogram):

Q1: Management should have proper record for entry and exit of any equipment and items from the store or inventory

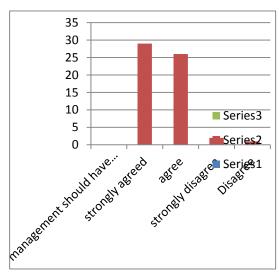


Figure 1. Management should have proper record

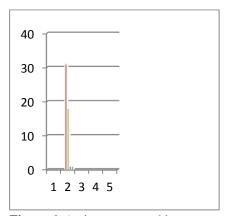


Figure 6. An inventory tracking system

Q4: There should be security personnel at inventory main gates

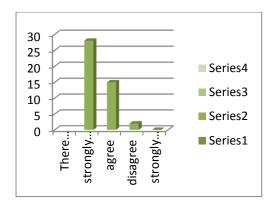


Figure 4. security personnel at inventory main gates

Q7: There should be sophisticated inventory tracking and warehouse and management software than a simple mom- and-pop operation

6. Discussion:

The graphs shows that quantitative results related to the research has been collected by the means of survey asked to the employees to know what they are thinking or want to improve in the organization. The survey is the best ways to know what are the problems faced by the employees. The graphs are the statistical results that could show us the clear view of employees opinion through the graphs bars as we can see there are many employee that agrees for improvement and innovations that could make the inventory management more efficient and more advanced as well as more focused on security and manageable. Overseeing client and merchant connections is a basic part of overseeing supply chains. As a rule, the collective relationship idea has been viewed as the substance of production network administration. In any case, a nearer examination of production network connections, especially those including item streams, uncovers that the heart of these connections is stock development and capacity. A great part of the movement required in overseeing connections depends on the buy, exchange, or administration of stock. In that capacity, stock assumes a basic part in supply chains

Q5: IT management with the advanced software should be updated for inventories

582

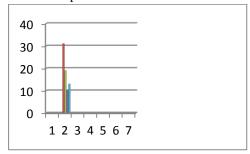


Figure 5. IT management with the advanced software

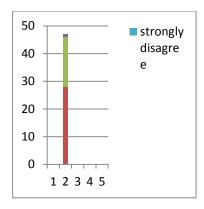


Figure 7. Sophisticated inventory tracking.

since it is a remarkable concentration of supply chains..

7. Findings of study:

Maybe the most basic part that stock plays in supply chains is that of encouraging the adjusting of interest and supply. The negative graph shows some of the improvement to be done and there are most of the employees agreeing to what improvements. To adequately deal with the forward and switch streams in the production network, firms need to manage upstream provider trades and downstream client requests. This puts an association in the position of attempting to strike a harmony between satisfying the requests of clients, which is regularly hard to gauge with exactness or precision, and keeping up sufficient supply of materials and merchandise. This adjust is regularly accomplished through stock.

To distinguish the correct accomplices, division of providers must turn into a foundational ability. The items production network must have the capacity to cut up the supply base in a wide range of courses as far as empowering development, he said. Most associations have a solitary, conventional approach to portion their providers; however they should have

Int. J Sup. Chain. Mgt Vol. 8, No. 2, April 2019

the capacity to fragment them in a wide range of routes, around heaps of various criteria. Companies in divisions from car and cutting edge to retail and buyer bundled merchandise have come to understand that their store network is a great deal more than the cost of getting items into clients' hands. These organizations comprehend that it is the inventory network that makes an interpretation of corporate technique into everyday cooperation's both inside and past the association. At last, it is the store network that fulfills or frustrates their clients. These organizations additionally utilize a more extensive meaning of the inventory network—one that incorporates arranging, data sharing, and esteem including exercises, from crude material to definite circulation, as opposed to simply coordination.

8. Contribution of study:

superior comprehension of authoritative execution and the commitment that venture administration can make is the point. The teachers, colleagues and supervisors who really contributed their supports and ideas a rich system that is settled both hypothetically and observationally yet is not notable in the field of venture administration. The structure is abridged and connected in an exact examination of the commitment of venture administration when all is said in done and supply chain administration specifically to authoritative execution. The examination of 11 contextual texts and cases regarding the topic, several websites, own information and ideas as well as some survey analyses uncovered various simultaneous and here and there dumbfounding points of view. The criteria proposed by the system have been additionally created through the distinguishing proof of a preparatory arrangement of observationally grounded execution markers. The exact outcomes add to a superior comprehension of the part of supply chain administration particularly. They likewise show the convenience of this system for the investigation of administration's venture commitment to authoritative execution.

9. Limitations:

- The research is all related to the topic that is all about the general issues concerning supply chain management which included logistics material department.
- The survey is included for the research purpose.
- The survey consists of 7 questions in total so that it could not be more time consuming for the employees.

- The questions asked are only based to know the views of the working employees so that it can help to know what problems being faced.
- No personal question is included in the survey.
- The questions are asked randomly from any employee.
- Nobody was forced to answer.
- The research is totally based on reality and the questions that are close ended questions.

10. Recommendations:

The very greatest and fines efficient corporations endure in the direction of evolving and reinvent the organization's supply chains management, even uncertainty the organization must previously accomplished a foremost and leading spot of position in the industry. By means of doing so, the organization will be capable to manage threats; answer back and can be responsive to the variations within the economic environment, technological environment and modest and competitive environment; besides that they can provide innovative and new prospects more efficiently than other organization's competitors.

11. Conclusion:

To compose our errands and task, we have to investigate our issues and task, and to detail a decent answer for the issue. We would need to set alternate course of action for the arrangement, with the goal that we are all around arranged for the unforeseeable circumstances.

As general professional and developer are continually dashing against tight course of events and stuffed calendar, an appropriate time administration will limit confronting past due dates. A successful time administration permits us to do our task productively and meet our timetables. Booking stays away from time wastage and permits us to prepare, and increasing more therefore.

Contradicting to a Herculean objective appeared to be reachable at first sight, it is ideal to sub-separate the objectives to a couple of achievable assignments, with the goal that we will acquire certainty by fulfilling those errands.

In workplace, cooperation is indispensable in adding to a solid association. Cooperation is likewise fundamental in achieving the objectives of the

association as an element. In this manner, imparting and sharing is truly necessary in the workplace. Subsequently, we ought to regard each other in work, and cooperating as a group, rather than working alone. This is on account of cooperating as a group is simpler in achieving our objectives, instead of working independently.

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