



STUDY OF MATERIAL PLANNING OF SUPPLY CHAIN MANAGEMENT IN A HOSPITAL.

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Thank you Note

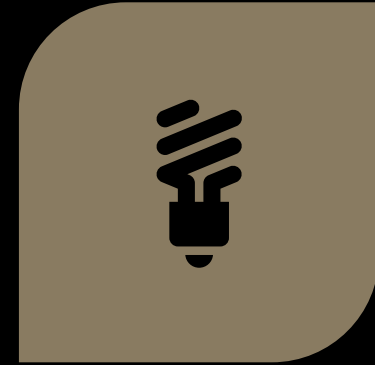
Hospital Supply chain Management



INVENTORY
MANAGEMENT

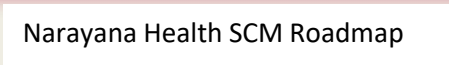


PROCUREMENT



CONSUMPTION

Material management is a core function of supply chain management where it involves in supply Planning and execution of supply chain to meet the requirement and in which time what product required for the organization. Particularly in a hospital material management department plays a significant role by providing material planning, inventory management for drugs, medical consumable, general consumable, printing and stationery, medical equipment & instruments, housekeeping, linen, and computers.





Inventory Management

“Inventory management is a part of the SCM. Inventory management includes the aspects such as controlling and overseeing purchases from vendors as well as to the customers, maintaining the storage of stock, keeping the amount of product sale in control and fulfil the required order.”



MATERIAL REQUIREMENT PLANNING

Bounce check and Material Order

PR quantity is calculated by 15 days of consumption – spv – ppo then we will get PR qty. UOM (Unit of measurement) plays an important role. Some item is in strip of one or box of 10, in that time PR quantity is not considerable. We must calculate actual PR quantity by adding one column after UOM then make name as UOM 1. According to UOM, UOM 1 will mention then add a column after PR quantity as a name of Actual PR quantity.

Item Code	Item Name	UOM	UOM 1	15 Days Cons	SPV	PPO	PR Qty	Atual PR Qty
M-N-SG-L149-04256	ATS SYSTEM PROCEDURE SET-.-TX/175 04256 LIVA NOVA-	EACH	1	3.75	1	0	2.75	2.75
M-N-SG-A006-00011	DRAPE KIT-KIDNEY TRANSPLANT(DONOR)-ADULT-3101 AMARYLLIS-	EACH	1	1	0	0	1	1
M-N-SG-B008-00124	URETERAL STENT-DOUBLE J PIGTAIL CLOSE END-4FR X 16CM-BIORAD-	EACH	1	2.75	1	0	1.75	1.75

Item code, item name, 5 days, spv, ppo, and remarks will send to the purchase team for follow up the item.

LESS THAN
5 DAYS VS
PPO
WORKING

Item Code	Item Name	5 Days	Regular Y/N	Vital	MSH OT 4F -MSQ	Vendor Name	SPV	PPO	PPO Aging	Remarks
M-N-SG-B	AV FISTUL	756.67	Y	0	0	Aims	50	1040	22	Required for Nephrology
M-N-SG-P	ET TUBE-C	3.17	Y	0	3	Aims	0	23	22	Required for NICS WARD & MSH IP4
M-N-SG-T	HEMODIA	2.25	Y	2	0	Aims	2	3	1	CWH VITAL

KPI	BENCHMARK PERCENTAGE
OTIF	85-100%
Fulfilment	95-100%

MATERIAL REQUIREMENT PLANNING KPI

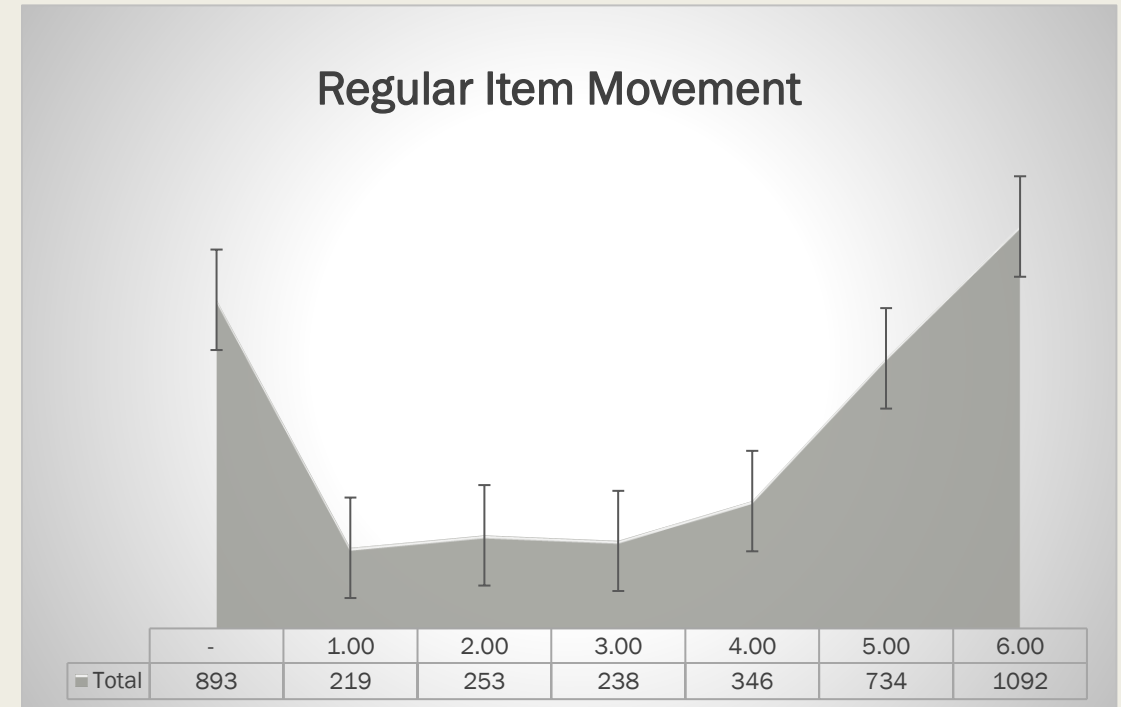
Fulfilment & OTIF Report

Every business need profit and ultimately supply chain management is work for increasing the profit. Fulfilment which is basically done by planning team but here a measure player is purchase team. Without follow up it will be difficult to achieve OTIF and fulfilment in benchmark. There are some certain KPIs for certain percentage to get Benchmark.

MSH SURGICAL FULFILLMENT							
Store Name	SG Indent	Total No. of SG Line items Indented	No. of Line Items Issued Full	No. of Line Items Issued partial	No. of Line Items Not Issued	Fill rate	OTIF
IP PHARM	SRQ-1002-	193	150	12	31	77.72%	82.90%
IP PHARM	SRQ-1002-	28	24	3	1	85.71%	85.71%
OT STORE	SRQ-1002-	226	191	16	19	84.51%	92.92%
					Average	82.65%	87.18%

Regular Item Identification

Regular Material Identification is done by previous 6 month consumption data, if the material consumption in every 6 month then it consider as a regular Item

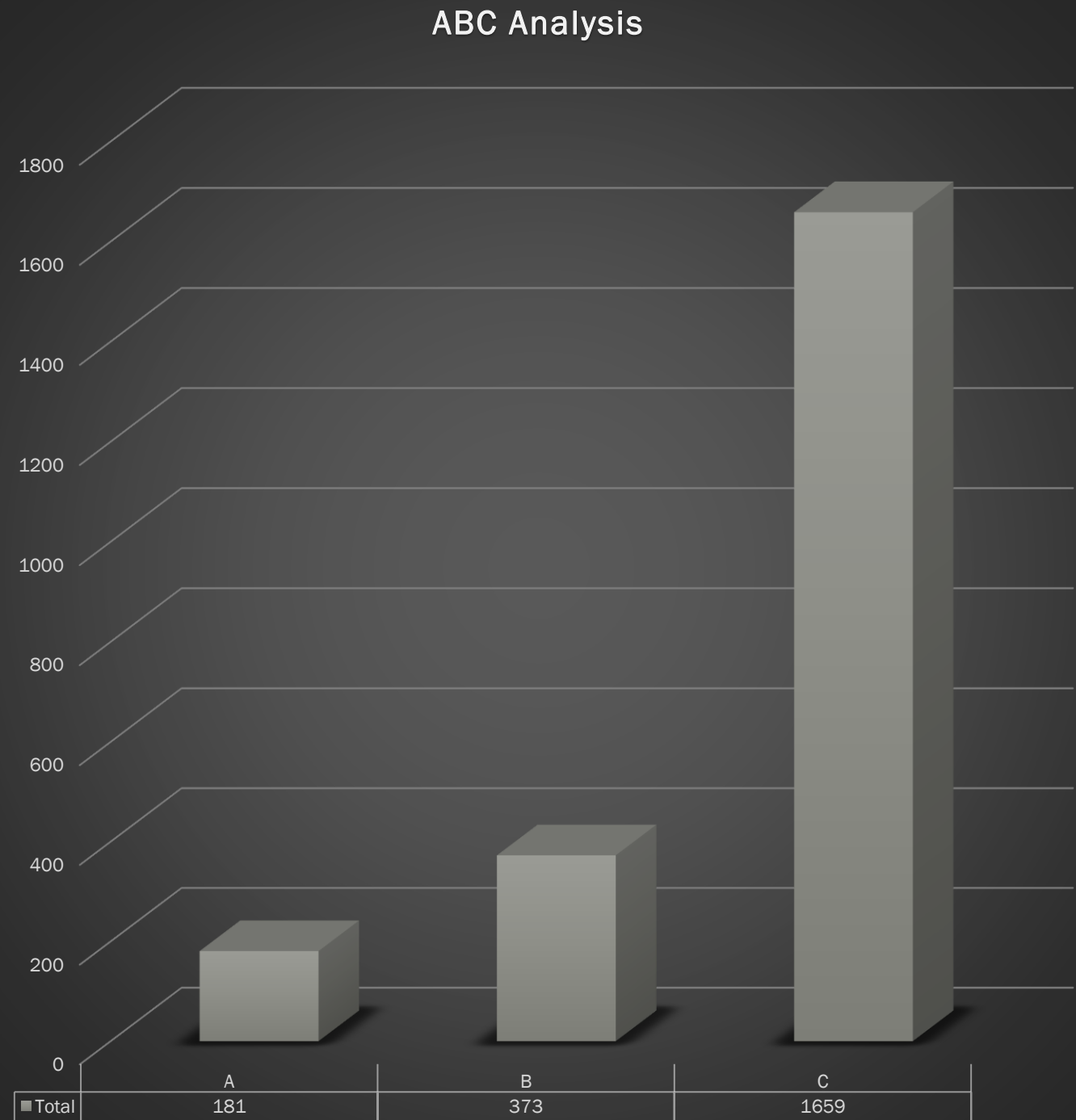


ABC Analysis

A - classification parts are very main and sometimes trade fault-finding. They require ultimate cautious control.

B - categorization items are inferior to 'A' articles and more important than 'C' parts.

C - categorization items are a little main and need less consideration and control.

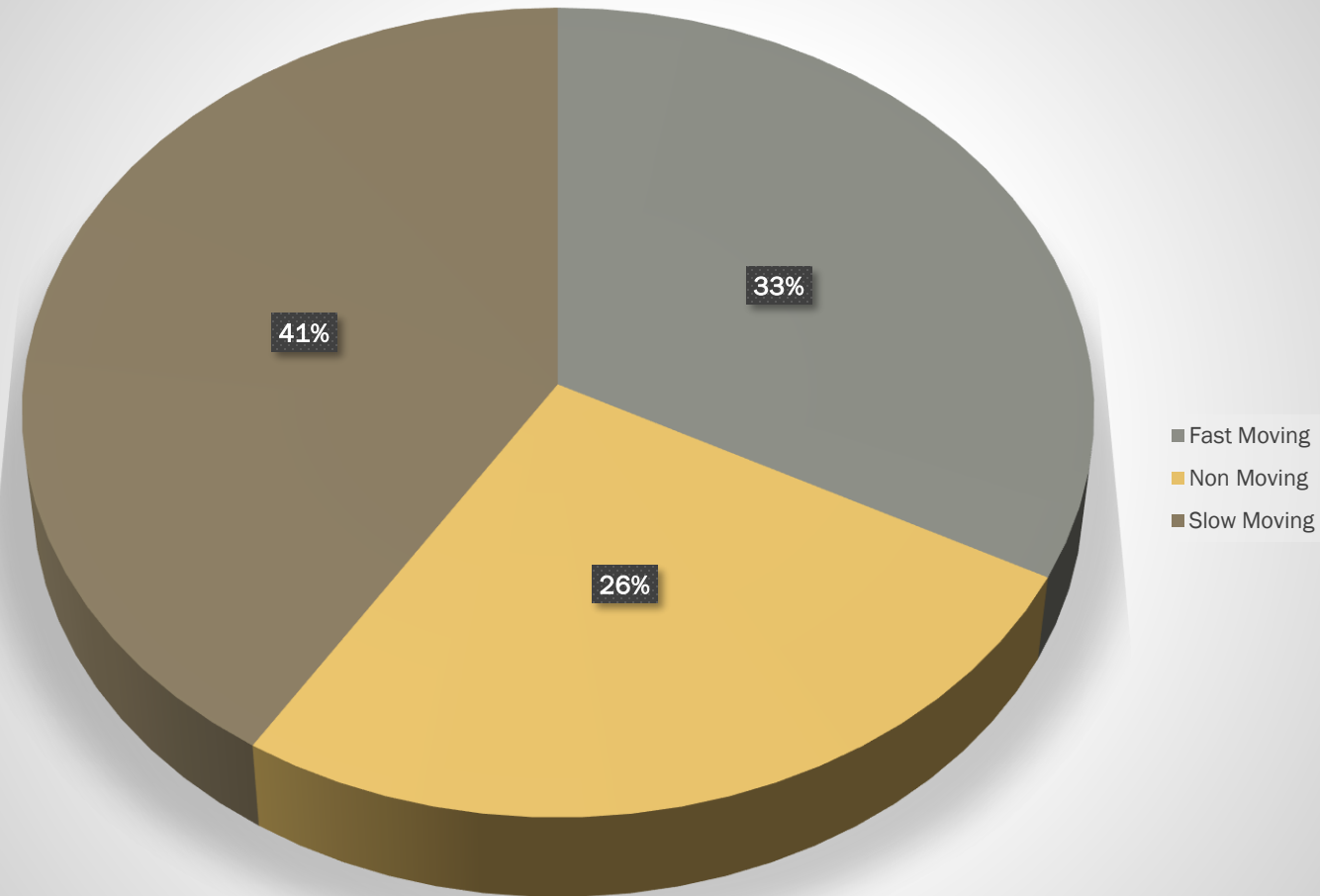


FSN Analysis

the stock that display or take public this type has an inventory change percentage of as well 3 and authorizes about 10-15% of the total stock.

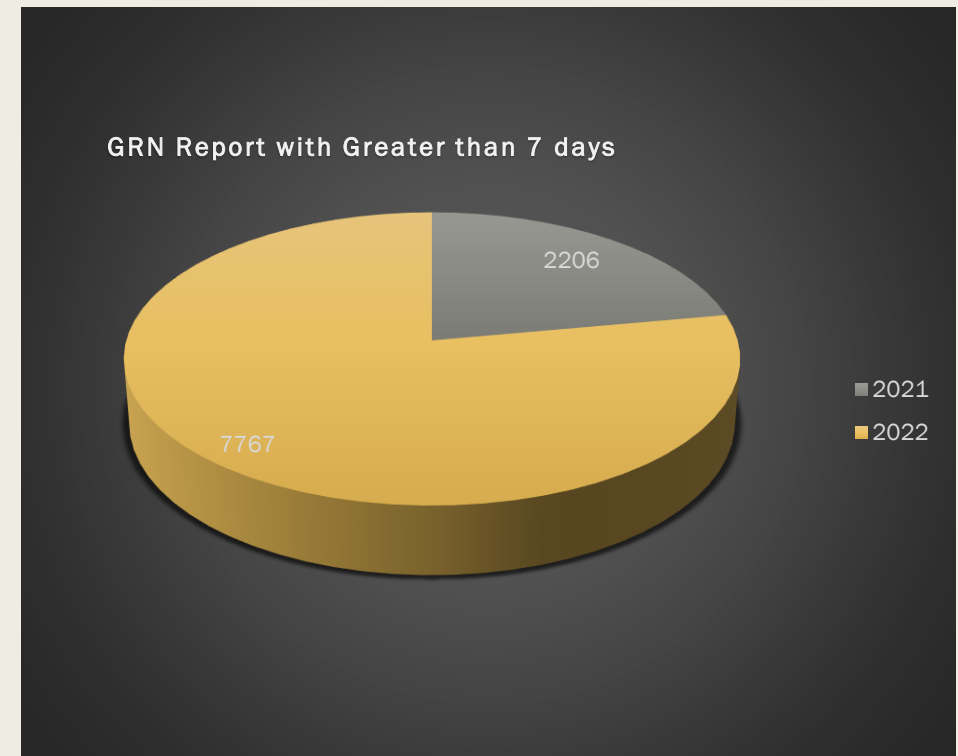
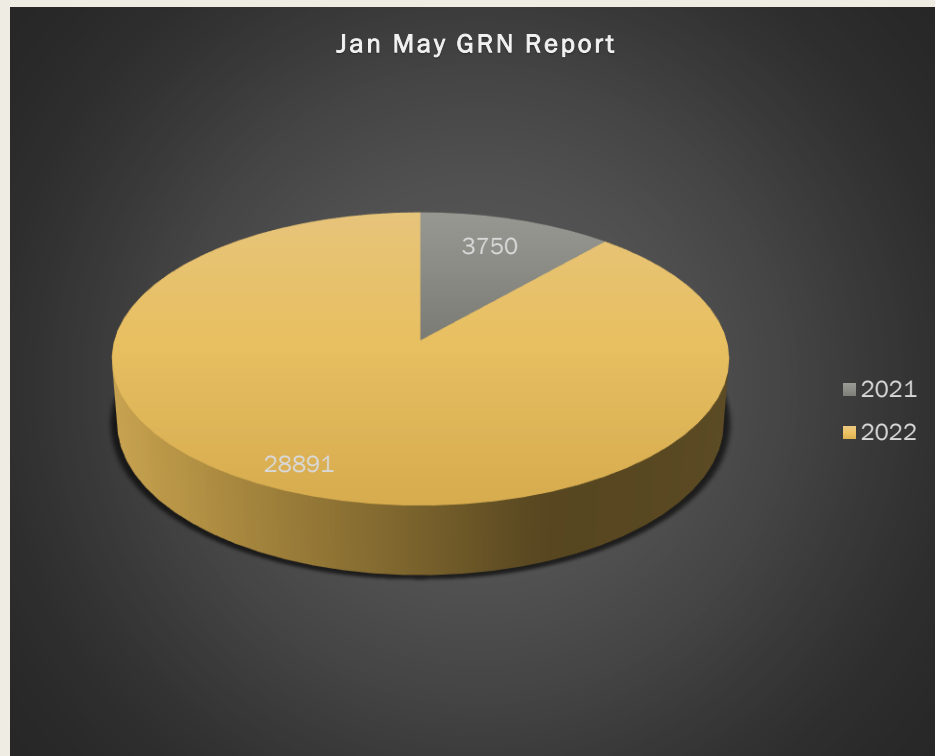
Slow-moving stock is the stock that crawls moderately through the supply chain and has an stock change percentage middle from two points 1-3. It is mainly 30-35% of the total stock.

The stock that exceptionally moves accompanying the stock change percentage form 60-65% of the total stock is named the Non-Moving stock.



Lead time

Lead time in stock administration is the lapse accompanying betwixt when an order is established to fill stock and when the order is taken. Lead time influences the amount of stock a Organization needs to hold always sooner than expected.



CONSUMPTION

- Departmental consumption
- Consignment consumption



RESEARCH QUESTION

- What is the on time in full (OTIF) percentage in inventory management of inpatient & outpatient department?
- How forecasting done in material planning?
- What is the strategy behind controlling the inventory in supply chain management?
- What is the benefit for implementing bar code system?

OBJECTIVE

The objective of this study is to identify the issues in material planning in a supply chain practice of a hospital.

Focus of the analysis: -

- To analyse the demand planning by forecasting.
- Performance of on time in full (OTIF).
- To assess the inventory management for medicine & surgical of hospital.
- Performance of Bar code system for sutures in surgical & for all materials in outpatient department.

Conclusion

- After analysing the data and process, I found that Material Requirement Planning is the pillar of supply chain management with the help of forecasting by previous consumption data.
- RFID (Radio Frequency identification) technology used for reducing waiting time for patients in OPD. It was observed that approximately 4-5 minutes reduced per patients.
- OTIF & Fulfilment was also increased as compared to previous year.

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THANK YOU