

Shrinath Mis DIS 2

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REVIEW OF LITERATURE

LR MATRIX

S.NO	Study	By	Content	Published
1.	How hospitals can manage supply shortages as demand surges	Bohmer, Pisano, Sadun, Tsai	The best supply chain and operations management practices can help health care providers deal with an influx of patients and supply shortages. They will work with them to develop a comprehensive strategy that addresses both the demand and supply side of the problem. The purpose of this article is to help health care leaders and organizations anticipate and prevent problems rather than react to them.	3.4.2020
2	¹ Supply Chain Management of pharmaceutical product in hospitals: A case study in privately owned tertiary level hospitals	Md. Nawshad Pervez, Javed Mehmud, Sitesh Bachar	Pharmacy management in hospitals is critical because it has an impact on the cost and availability of	June 2016

			healthcare for patients and the community. It analysed various types of data such as medicine consumption patterns, disease patterns, patient turnover, length of stay, and so on to ensure competitive advantages in procurement and inventory management.	
3	5 Valued Supply Chain for Integrated Hospital Management: A Conceptual Framework	Abu Rahim Bhuiya Albarune Nazma Farhat Farzana Afzal	Furthermore, this research reveals that SCM is only used in a small number of hospitals. As a result, the authors describe their recommendations and propose a model for hospital value-added supply chain management.	2015
4.	6 The management of supply chain for hospital pharmacies: A focus on inventory management practices	Berrick, Fedrick, Jae	Hospital pharmacies appear to have the greatest potential for efficient logistics	1995

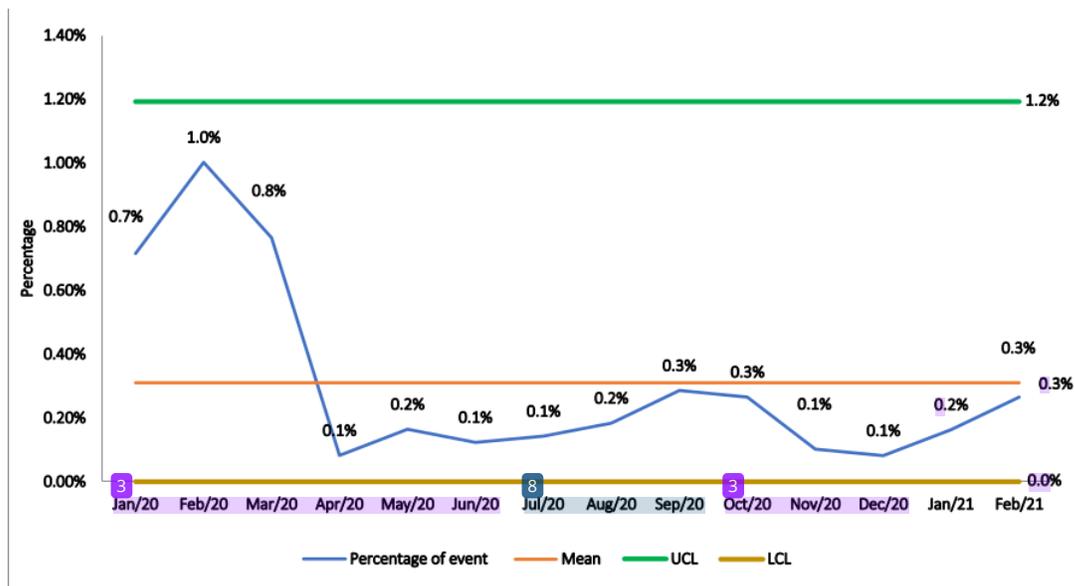
			<p>cost reduction. They have reduced lead time, concentrated purchases with a few vendors, and achieved a high level of service reliability. Nonetheless, there is little evidence that these measures have resulted in inventory savings. An economic order quantity methodology is compared to current practice to determine the magnitude of potential savings from changing current inventory strategies.</p>	
5.	<p>⁷ Hospital inventory management for emergency demand</p>	Lessie J. Douglas	<p>Inventory management is becoming more important in a variety of organisations. Inventory is one critical area that is in high demand during an emergency.</p> <p>For example, a ⁴ hospital materials</p>	

			<p>manager must establish efficient inventory system policies that ensure the hospital's ability to meet normal operating conditions.</p>	
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OBSERVATIONS AND RESULTS

Percentage: Drugs & consumables obtained through LP(local purchase) within formulary

Drugs and consumables procured through local purchase within formulary	=	Drugs & items purchased by local purchase within formulary
		No. of drugs/ items in hospital formulary



Benchmark : $\leq 2\%$

Source of Data : Pharmacy Register

Root Cause Analysis and Corrective and Preventive Action

Jan'20 – Mar'20

RCA –

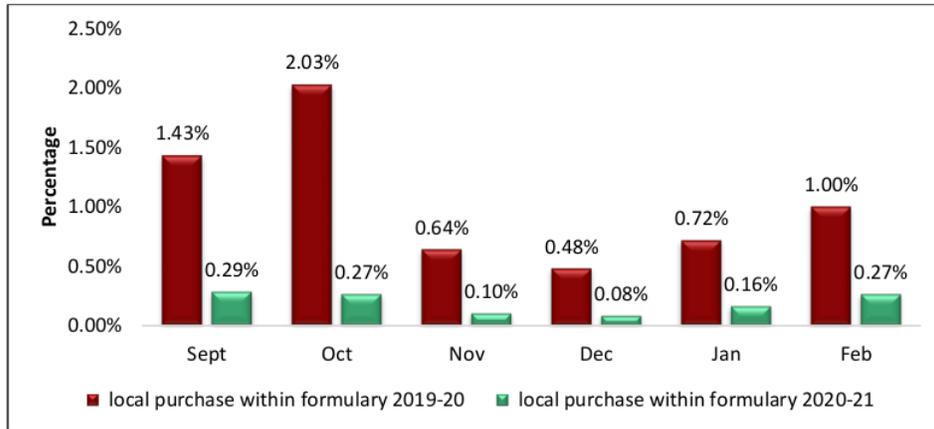
- Due to sudden increase in Covid Cases, the vendors were unable to follow the streamlined process of regular supplies

CAPA –

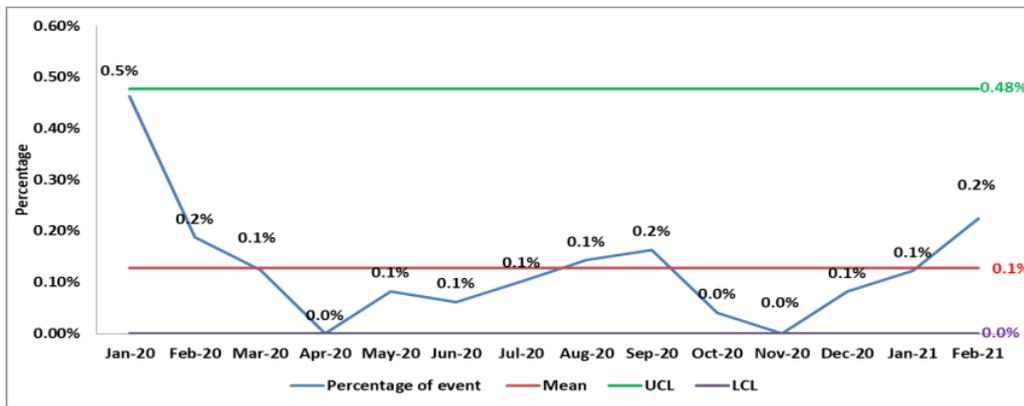
- We had to streamline our purchase orders by accounting for the vendor lead time variability in calculating ROL
- We added additional authorised vendors to ensure fulfilment of our requirements

COMPARISON OF PERCENTAGE OF DRUGS & CONSUMABLES PROCURED THROUGH LOCAL PURCHASE WITHIN FORMULARY

September-February 2020-21 v/s 2019-20



<p>Percentage of drugs & consumables procured through LP outside formulary</p>	<p>=</p>	<p>No. of drugs & items purchased by local purchase outside formulary</p>
		<p>No of drugs/items procured in hospital within as well as outside</p>



Benchmark : $\leq 2\%$

Source of Data : Pharmacy Register

Root Cause Analysis and Corrective and Preventive Action

RCA –

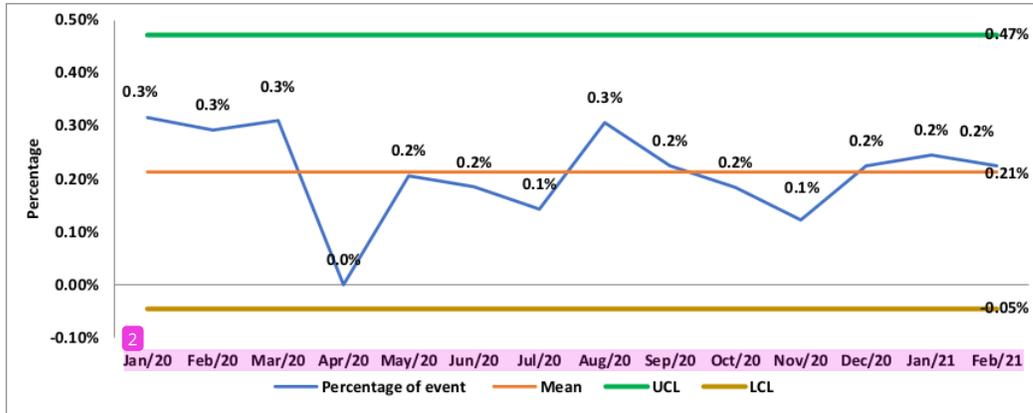
- Because drugs not on our formulary are required for patients transferred from other institutions, we purchase the drugs locally in order to keep the patient's medication consistent with previous treatment.
- For drugs prescribed for the first time and for which no brand is approved in our formulary, we must purchase locally.

CAPA –

An item prescribed for more than four different patients in one month is considered for inclusion in the hospital formulary at the next Drug and Therapeutic Committee meeting.

Percentage of stock outs incl emergency

% of stock outs incl emergency	=	No. of stock outs incl emergency drugs
		No. of drugs and consumables within hospital formulary



Benchmark : $\leq 1\%$

Source of Data : Pharmacy Register

Root Cause Analysis and Corrective and Preventive Action

Jan'20 – Mar'20

RCA –

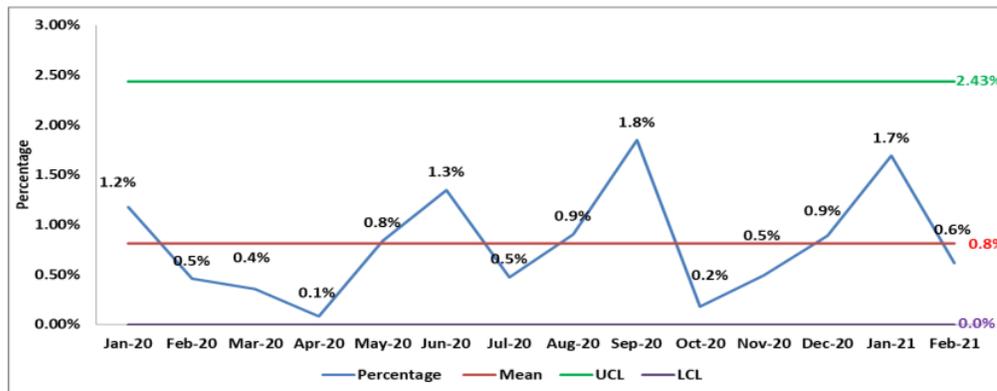
Due to an unexpected increase in Covid Cases, vendors were unable to adhere to the streamlined process of regular supplies.

CAPA –

- In order to calculate ROL, we had to streamline our purchase orders by accounting for vendor lead time variability.
- We increased the stock of all moving items for safety.

Percentage of drugs & consumables rejected prior to preparations of good receipt note

% of drugs & consumables rejected prior to preparation of GRN	=	No. of drugs & consumables rejected
		Total quantity received before GRN



Benchmark : $\leq 2\%$

Source of Data : Pharmacy Register

Root Cause Analysis and Corrective and Preventive Action

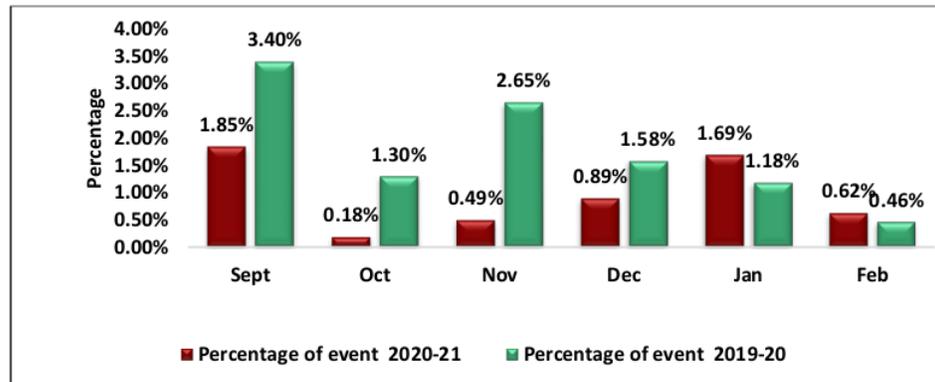
RCA –

- Item received is not as specified in the purchase order;
- Item quantity received does not match the invoice quantity;
- Item is invoiced at the incorrect rate.

CAPA –

- Item returned to vendor without a Goods Receipt Note entry
- Vendors notified of incorrect supplies and instructed to send correct invoice and item the same day
- Rate and pack size checked with vendor when sending purchase order

COMPARISON OF % OF DRUGS & CONSUMABLES REJECTED PRIOR TO PREPARATION OF GOODS RECEIPT NOTE SEPTEMBER-FEBRUARY 2020-21 V/S 2019-20



SUMMARY AND CONCLUSION

Hospital administration can take into account their ages as well as their future needs. Hospitals must also prioritise the selection and recruitment of staff who are more qualified(both in terms of Specialised education and Experience), particularly in the field of health administration.

RECOMMENDATIONS

To begin, hospitals must specialise in supply chain activities in order to improve healthcare service quality.

The main focus of hospital administration should be on quality hiring, highly skilled and specialised personnel for supply chain departments and subjecting them to intensive inhouse and training capsule ; as a result, suppliers will be impacted in accordance with specific guidelines.

Shrinath Mis DIS 2

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7	Sunil Kant, SK Patnaik, Pawan Kapoor, Madhav Madhusudan Singh, Sameer Mehrotra, Sunil Basukala, RK Ranyal, Punit Yadav. "Application of 3D Music Inventory Control Technique for the Controlled Drugs in Intensive Care Unit of a Tertiary Care Hospital", International Journal of Research Foundation of Hospital and Healthcare	1%

Administration, 2015

Publication

8

Christine Klein, Max Borsche, Alexander Balck, Bandik Foeh et al. "Cohort-based surveillance of SARS-CoV2 transmission mirrors infection rates at the population level: a one-year longitudinal study", Cold Spring Harbor Laboratory, 2021

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