

ANNUAL MEDICATION MANAGEMENT CONFERENCE

AMMC-SHIFA 2021

BACKGROUND

Cold chain management entails keeping medications like insulin, vaccines, oxytocins, etc. between 2-8°C temperatures. The temperature outside this range leads to reduce potency and efficacy of the drug. End-of-chain drug sellers should be knowledgeable about cold chain storage and dispensing.

AIM/OBJECTIVES

- The main aim of study is to find out knowledge of respondents about storage condition, dispensing of biologics and vaccines in different community pharmacies.
- To verify monitoring systems in community pharmacies to ensure product quality.

DESIGN/METHODS

A survey, visual observation, and contact with respondents were all part of cross-sectional research. The questionnaire was the major data collection instrument for the survey. A total of 50 ISB/RWP respondents were chosen using a purposive convenient sample approach. We have used dichotomous scales and semantic differential scales, open ended scale, paired comparison scale and frequency scale in our survey based questionnaire. The results of the SPSS version 19 analysis were presented as descriptive statistics in a frequency distribution ,pie charts and bar graphs.

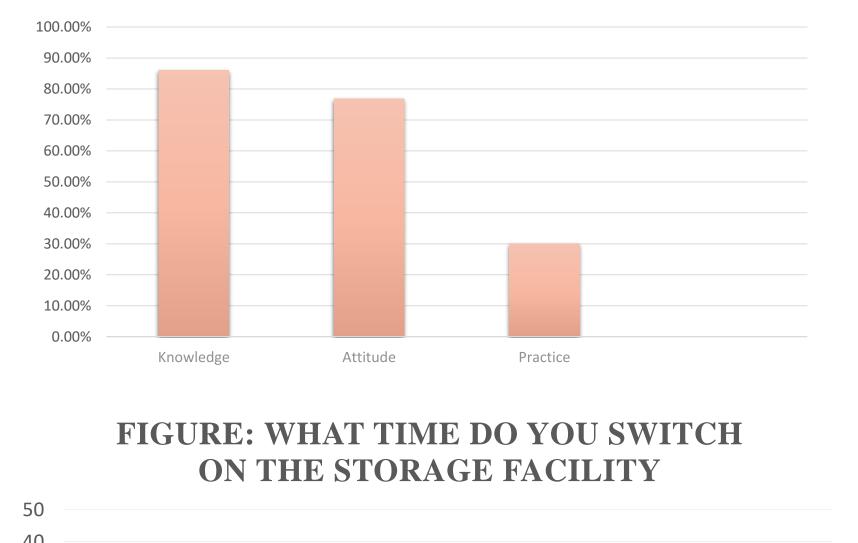
Demographic Characteristics of Participants		
Mean Age	33.69 ± 1.70	
Male	n=43; 86%	
Female	n=7; 14%	
Pharmacy	n=43; 86%	
Medical Store	n=6; 14%	

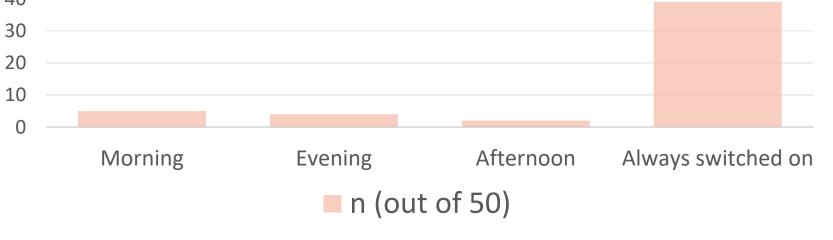
ASSESSMENT ON KNOWLEDGE, ATTITUDE AND PRACTICE OF Dispensing and storage trends of biologics and vaccines in outpatient pharmacy settings.

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RESULTS

The majority of responders had an adequate understanding of cold chain product storage and dispensing conditions, but they lacked a positive attitude and proper practice. Almost 26.77% of pharmacies did not calibrate their temperature monitoring equipment, and over 70% were unaware of where their instruments were being calibrated or the legitimacy of their calibrated devices. 19.23% of outpatient pharmacies responded yes when asked about storing other food items in their storage facility along with cold chain products.





Knowledge Receiving and transportation of cold chain			Attitude Temperature Monitoring		
					medicine
Ice Chest	Distributor Van	Do Not Know	Yes	No	
56%	22%	22%	100%	0%	
Storage facility			Storage facility		
Type of cold chain medicine stored			Storage facility use		
Vaccines	Ointments	Injections	Refrigerator	Fridge	
			60%	40%	
54%	26%	20%	Are products physically segregated		
Insulin			Yes	No	
Where do we stock insulin		84%	16%		
Shelf	Fridge	Freezer	Low high temperature alarms are use		
6%	80%	14%	Yes	No	
Vaccine			70%	30%	
Temperature of refrigerator is 2-8^oC		Thermometer calibrated			
-			Yes	No	
Yes	No		74%	26%	
92.30%	7.70%		Institution for thermometer calibration		
Vaccines spoil on exposure to light		PME Pvt LTD	Donot know		
Yes	No		30%	70%	
73.07%	26.92%		Store food and drinks in refrigerator		
Results Understanding of respondents about cold chain medicine Out of 50			Yes	No	
		19.23%	80.77%		

outpatient pharmacy settings in twin cities i.e. (RWP/ISB)

CONCLUSIONS

This study demonstrates the need for reform and improvement in cold chain storage and dispensing standards. It is necessary to increase the quality of experts' adherence to suitable methods and their attitudes, which will undoubtedly result in fewer side effects and more cost-effective outcomes.

On the basis of present study, it is suggested to train the staff and prepare a national guideline for the storage and handling of biologics and forcefully implement the laws to adopt the particular guideline.

The continuing education programs are the most effective way to minimize the

errors and educate about the proper storage and handling of biologics.

Results Attitude of respondents about cold chain medicine Out of 50 outpatient pharmacy settings in twin cities i.e. (RWP/ISB)

REFERENCES

Mohammed, S., Workneh, B. and kahissay, M., 2021. Knowledge, attitude and practice of vaccinators and vaccine handlers on vaccine cold chain management in public health facilities, Ethiopia: Cross-sectional study. (Mohammed, Workneh and kahissay, 2021) Bankole A, Kola-korolo O, Bankole M, Iboma O, Adeluola A. The impact of health facility monitoring on cold chain management practices in Lagos, Nigeria. J Public Health Epidemiol; 2010;2:78. Lalitha K, Anniappan A, Vderhobli N, Krishna S, Yathiraj S, Sreekantaiah P. Evaluation of cold chain practices in urban health centers of a Metro City in India. Natl J Community Med 2014;5:288-92

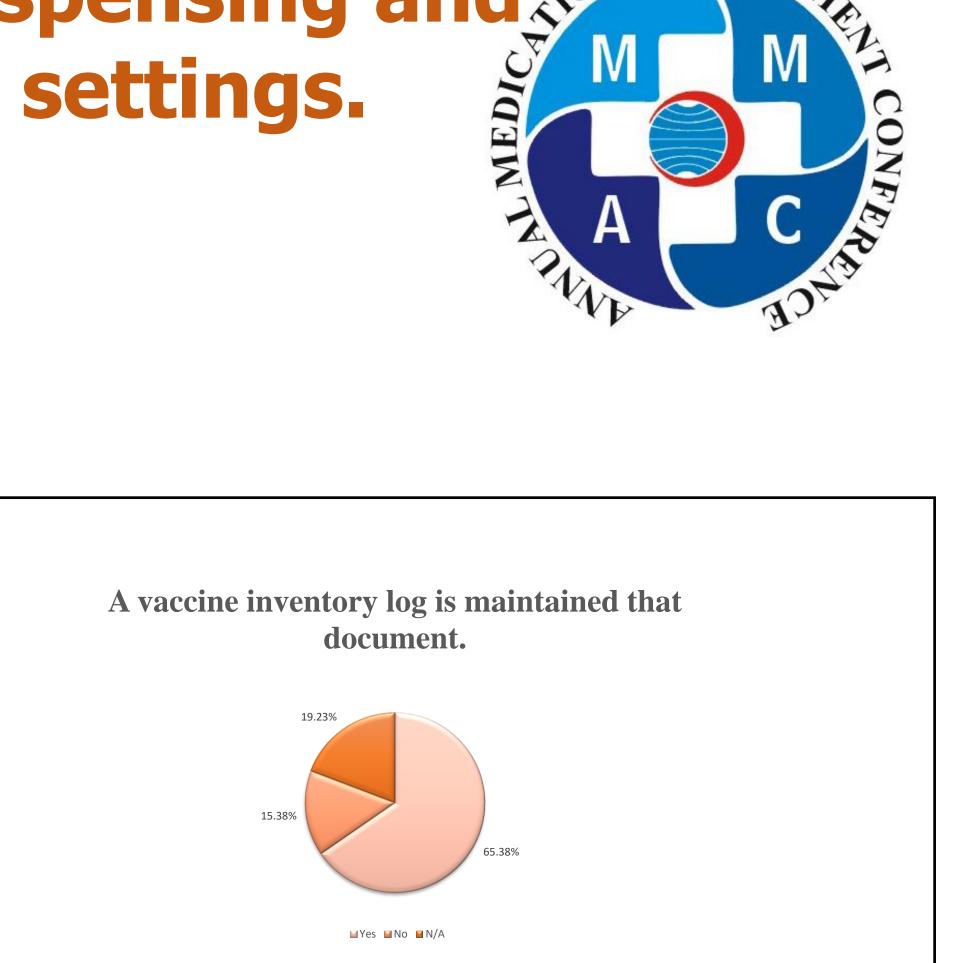


Figure: Who dispense insulin to patient?

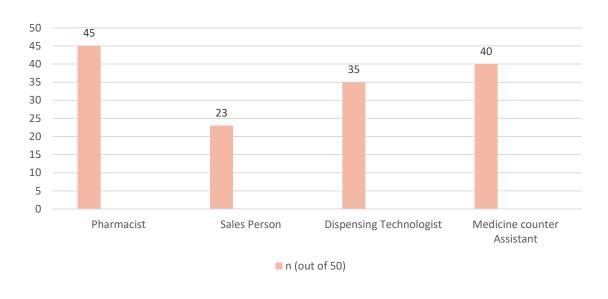
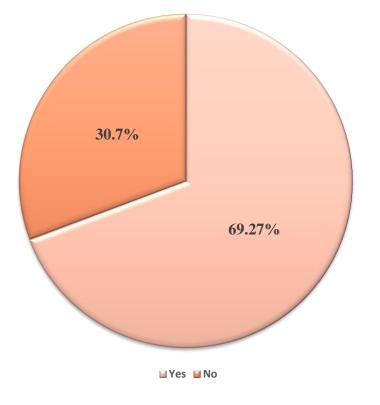


Figure: Is the storage device furnished with low/high temperature alarms



ACKNOWLEDGEMENTS

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