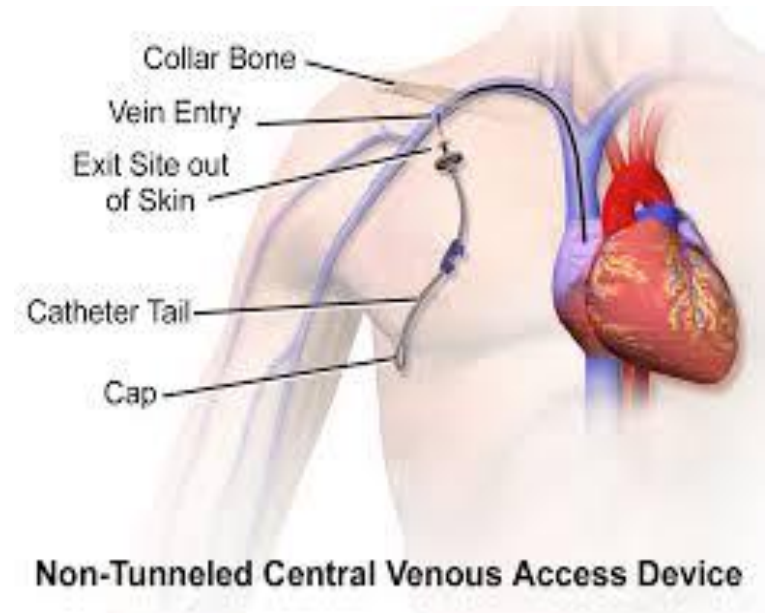


Reduction of CLABSI rate in pediatric post surgical ICU by implementing multimodal strategies of infection prevention and control as a part of patient's safety



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Decision making

Listen up my fellow bacteria. We will attack together when we are enough in number. So how many are we? That's coming.

Communication



City Living





Introduction

- Aim & Objectives
- Definition

To Identify the 50% reduction of CLABSI rate in pediatric post surgical cardiac ICU within six months implementing multimodal strategies of infection prevention and control

Methodology

- Study area
- Study designs

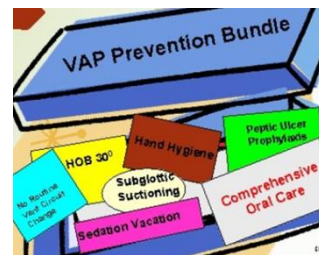


- Central line-associated bloodstream infections (CLABSIs) result in thousands of deaths each year and billions of dollars in added costs to treat patient in Healthcare system, yet these infections are preventable.

- CDC is providing guidelines and tools to the healthcare community to help end CLABSIs

Results & Conclusion

- Interventions
- Bundle care
- Data analysis
- Results



METHODOLOGY

• STUDY DESIGN

- A before–after [prospective study](#) was conducted in post surgical ICUs of a hospital from January 2023 to July 2023.
- Many interventions that aimed to reduced to CLABSI were initiated in January 2023.
- The incidence rates of CLABSI were compared between the baseline which was taken as past 3 year (2020 ,2021 & 2022) average and intervention periods.

DATA ANALYSIS

- **BASE LINE DATA:**

- A retrospective study was conducted in pediatric post surgical ICUs of a hospital to find average CLABSI rate.
- We took our average rate 6.34 to we want to 50% reduction by implementation of multimodal strategy

HAI RATE	2020	2021	2022	AVERAGE
CLABSI	7.02	7.03	4.99	6.34

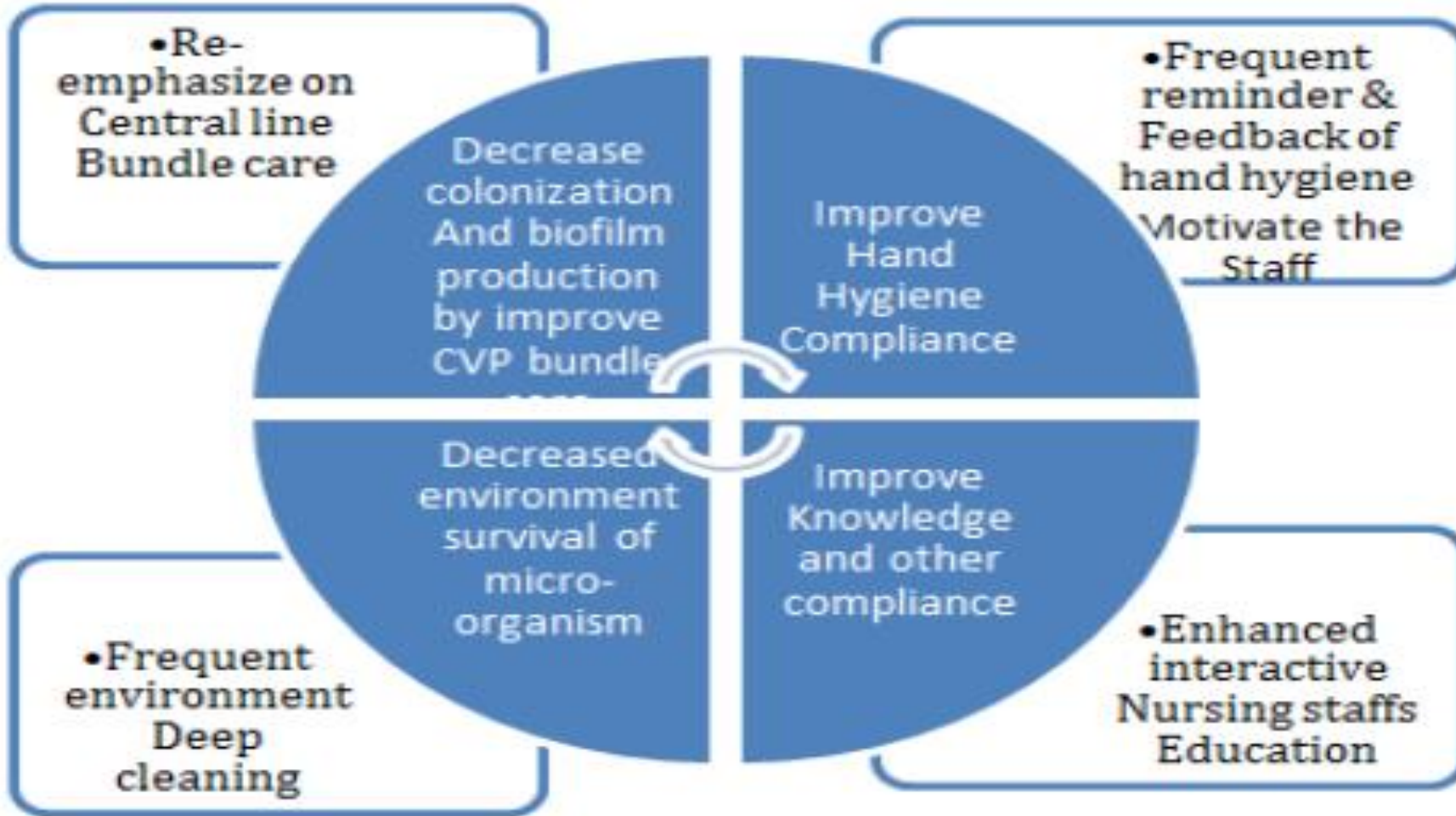
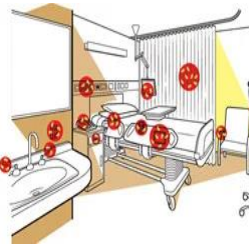
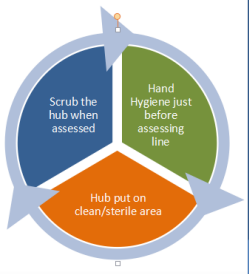
Hand hygiene Compliance before implementation

Year	2021	2022
Hand Hygiene Compliance	57.14	58.9

Average Central lines days Monthly

Year	2021	2022
Average Central Lines days monthly	925	958

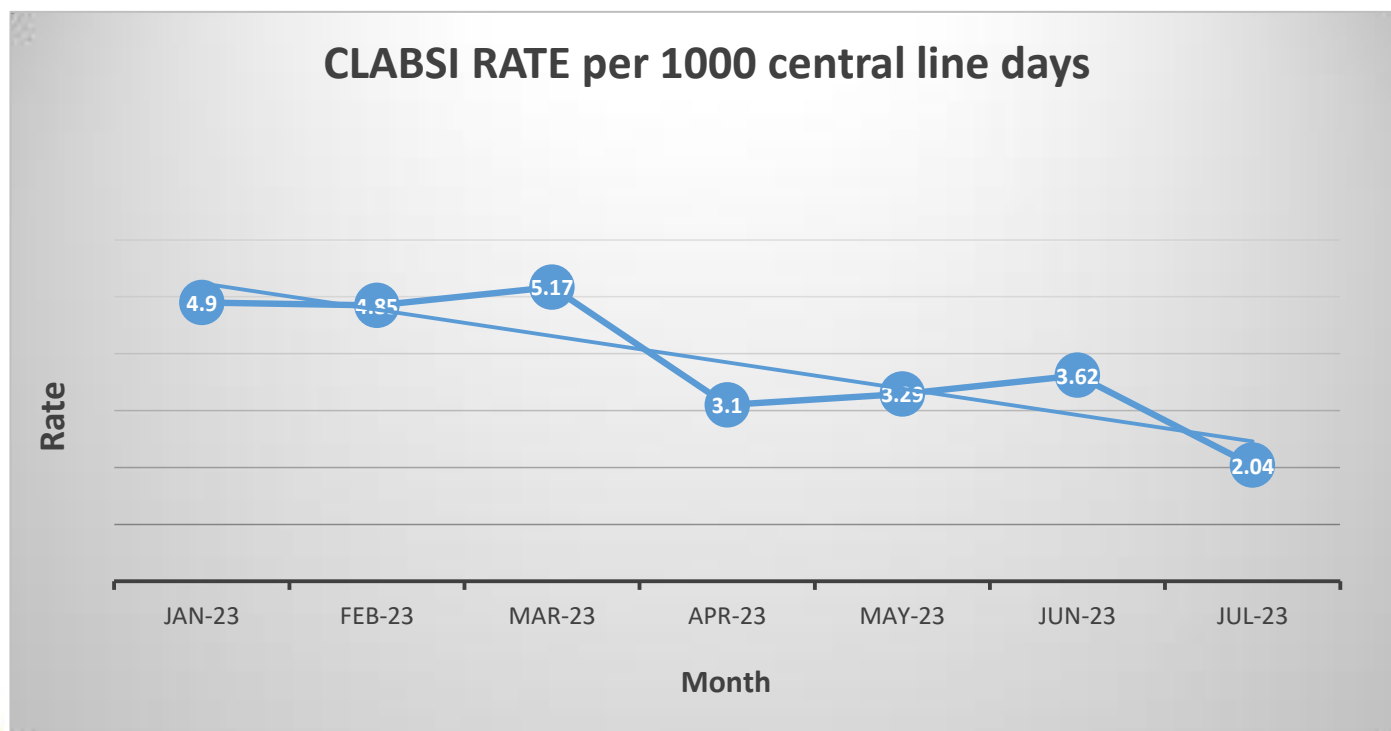
MULTIMODAL STRATEGY



OUTCOME MEASURES

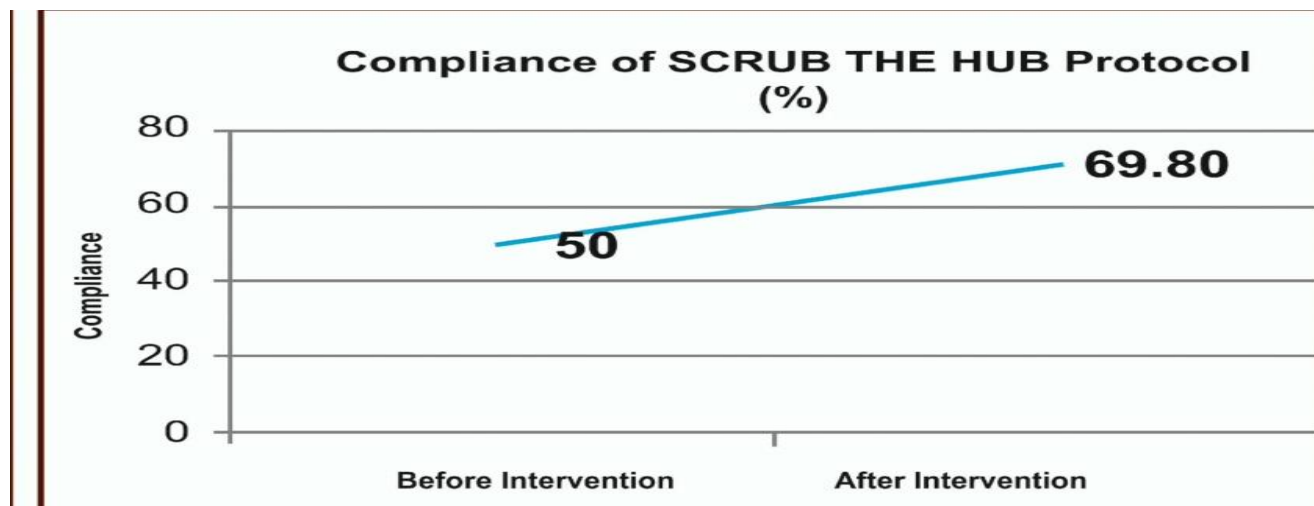
HAI Rate	2020	2021	2022	Average
CLABSI	7.02	7.03	4.99	6.34

Year	2021	2022
HH Compliance	57.14	58.9



IMPROVEMENT IN BUNDLE CARE COMPLIANCE

- Improvement in bundle care compliance specially **Scrub the protocol** which is most important to prevent CLABSI
- Before intervention it was **50% compliance** but after intervention it was **69.8% compliance** which was audited by infection control team.



LEARNING OUTCOME



- In initial phase we faced behavioural issue, attitude issue & resistance to change which is overcome by training, effective communication & team building spirit.
- Our findings suggest that clinically relevant reduction of post surgical CLABSI was reduced with a multidisciplinary and multimodal interventions improvement including aspects of behavioral change in a practical manner and key principles of good implementation practice. In this sense, our strategy is more in-depth than some promoted bundles.
- Implementing multimodal interventions focusing on CL bundle improvement was effective in reducing the incidence rates of CLABSI.



**TODAY, NURSES ARE THE
KEY PLAYERS IN THE FIGHT
TO ENSURE THE SURVIVAL
OF INFECTION CONTROL
PRACTICES.....**

