

Peripheral IV Line Care & Practices

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INTRODUCTION

“First, do no harm” is the ethical imperative for every patient safety effort. Peripheral Intravenous care is a common procedure Performed by Nurses in every Hospital and is closely associated with the Risk of Nosocomial Infections if standard care is not provided.

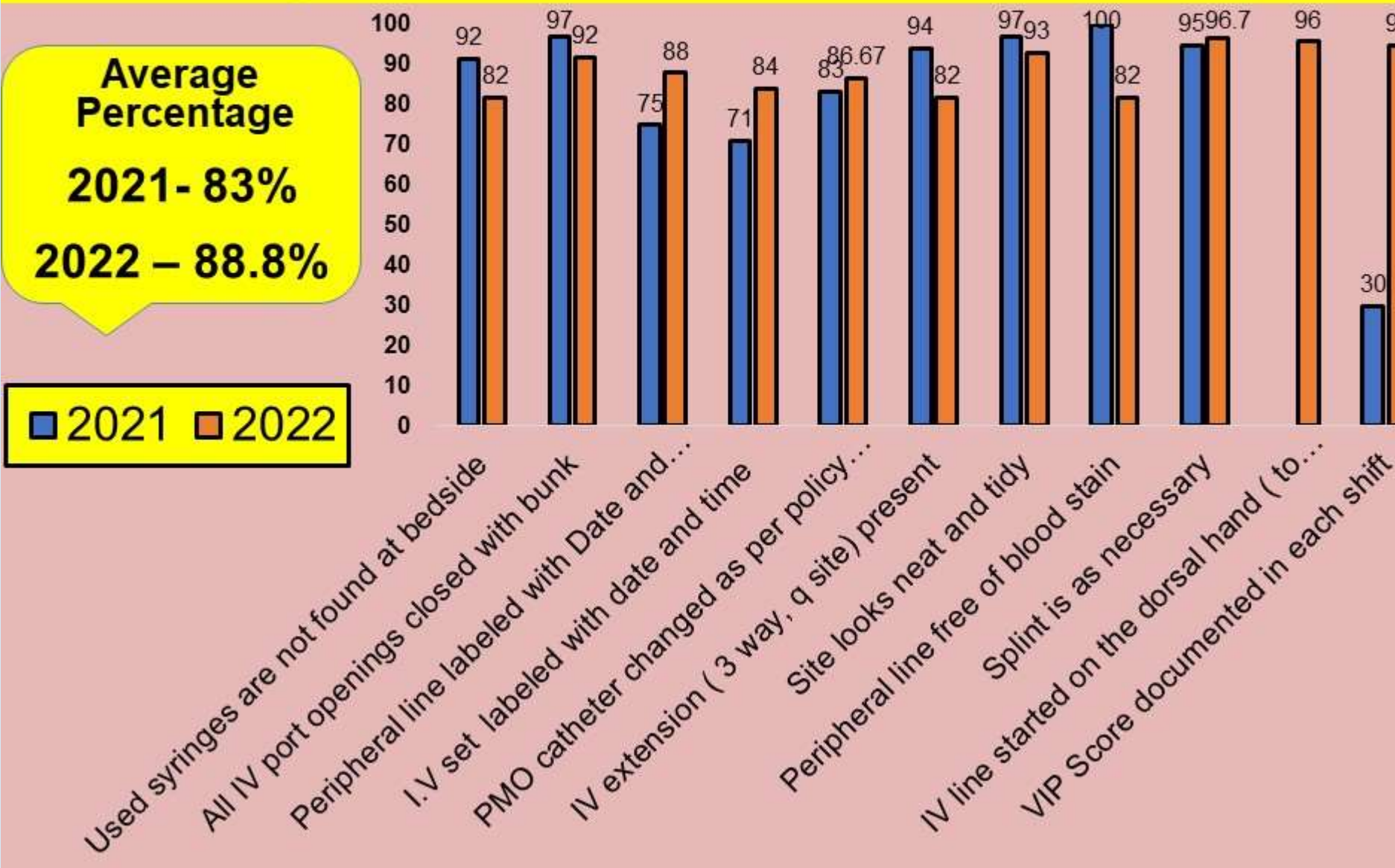
Safe IV is the ultimate priority of Health care Personnel to Render Quality and Competent care. Nurses who play a vital role should have sound Knowledge of Safe IV practices and demonstrate Competent skills. This study aims to bring out successful outcomes by ensuring patient safety.

AIM

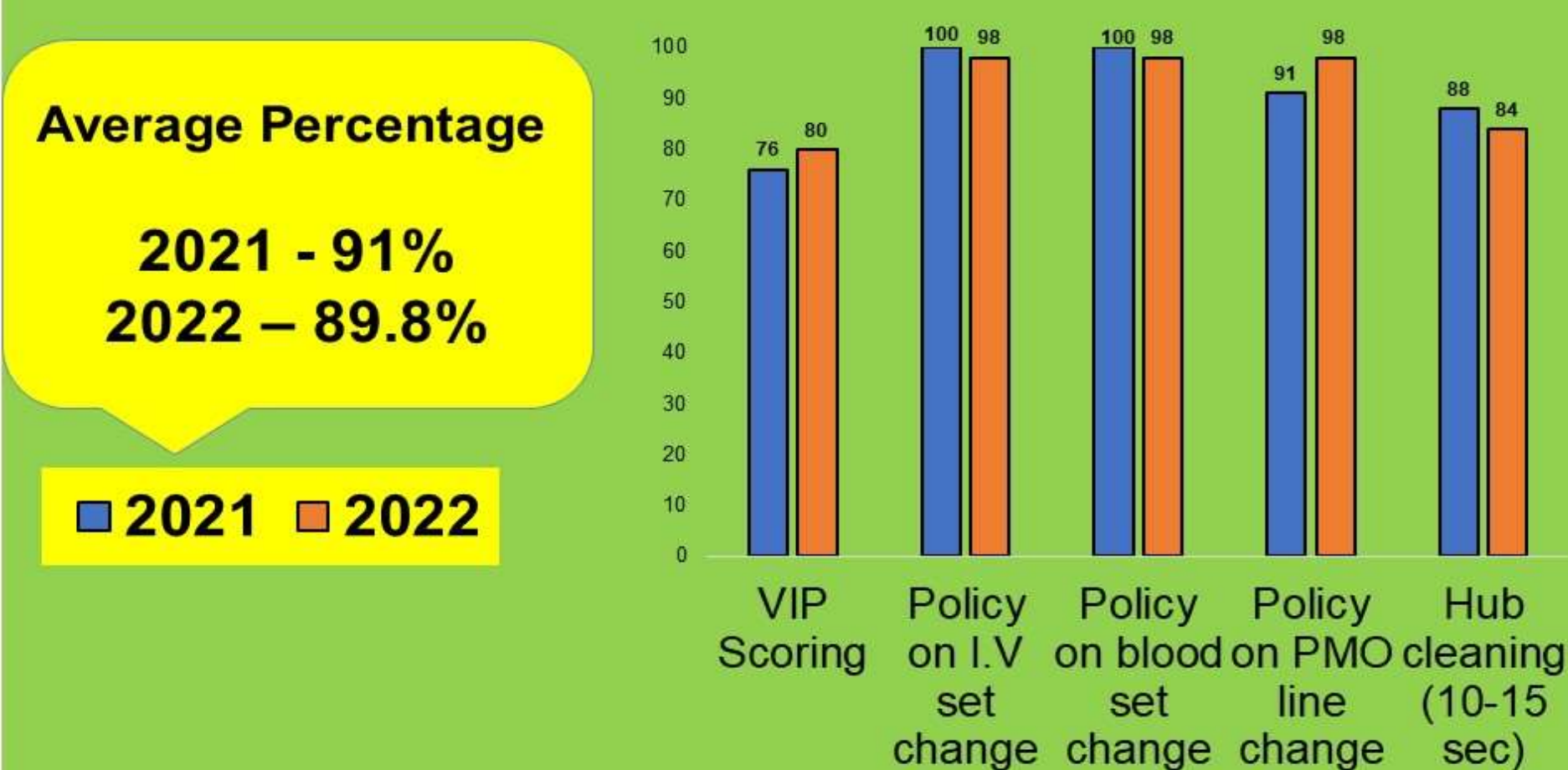
- To assess Nurses’ bedside practice, Knowledge on IV Policies & infection prevention strategies.
- To implement best practices related to safe IV line practices.
- To reassess Nurses’ bedside practice, Knowledge on IV Policies & infection prevention strategies after implementing best practices

RESULTS

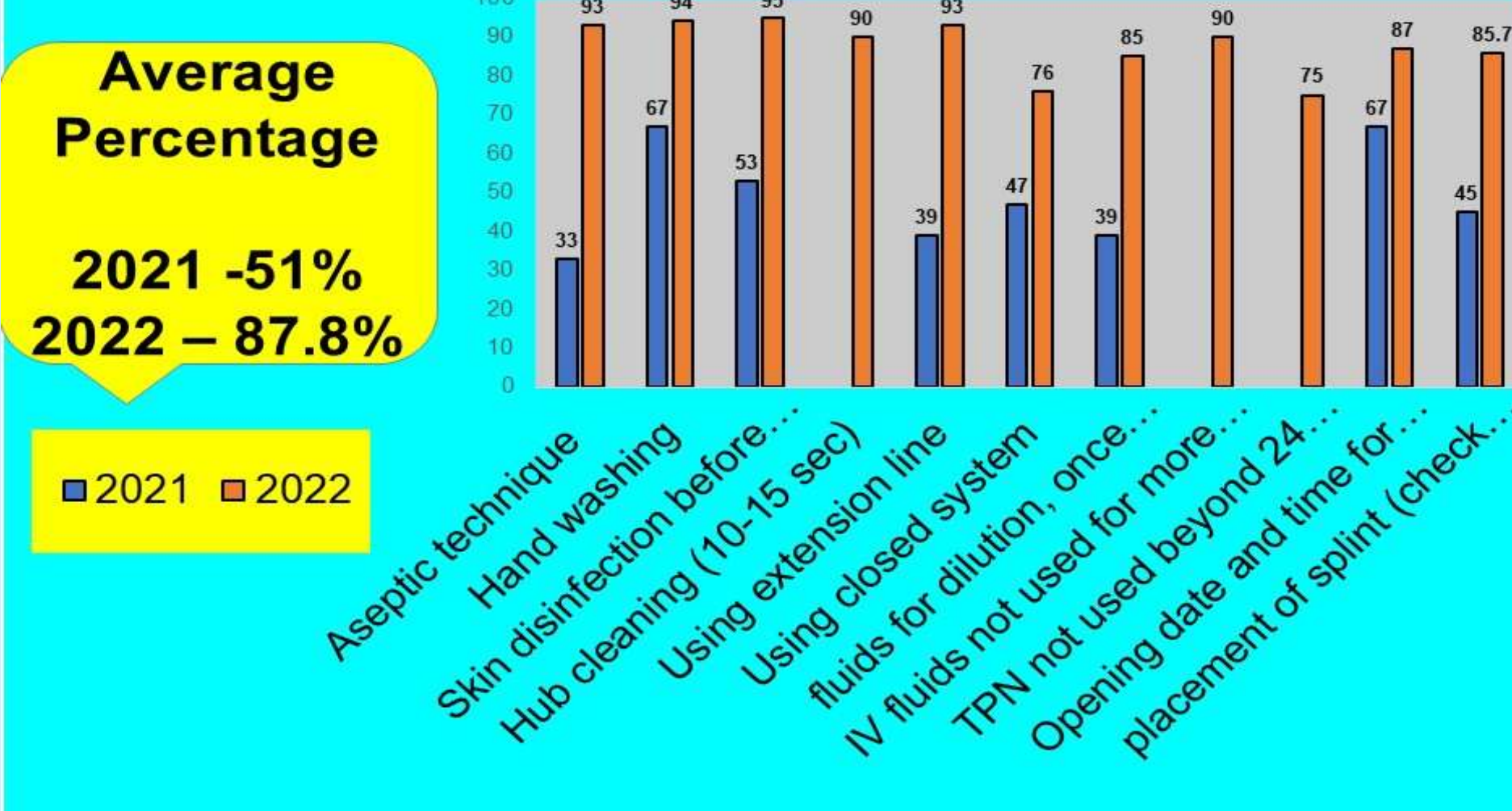
Nurses Bedside Practice –Before & After Implementation of Best Practices



Knowledge of Nurses on IV Peripheral Line Policy Before & After Implementation of Best Practices

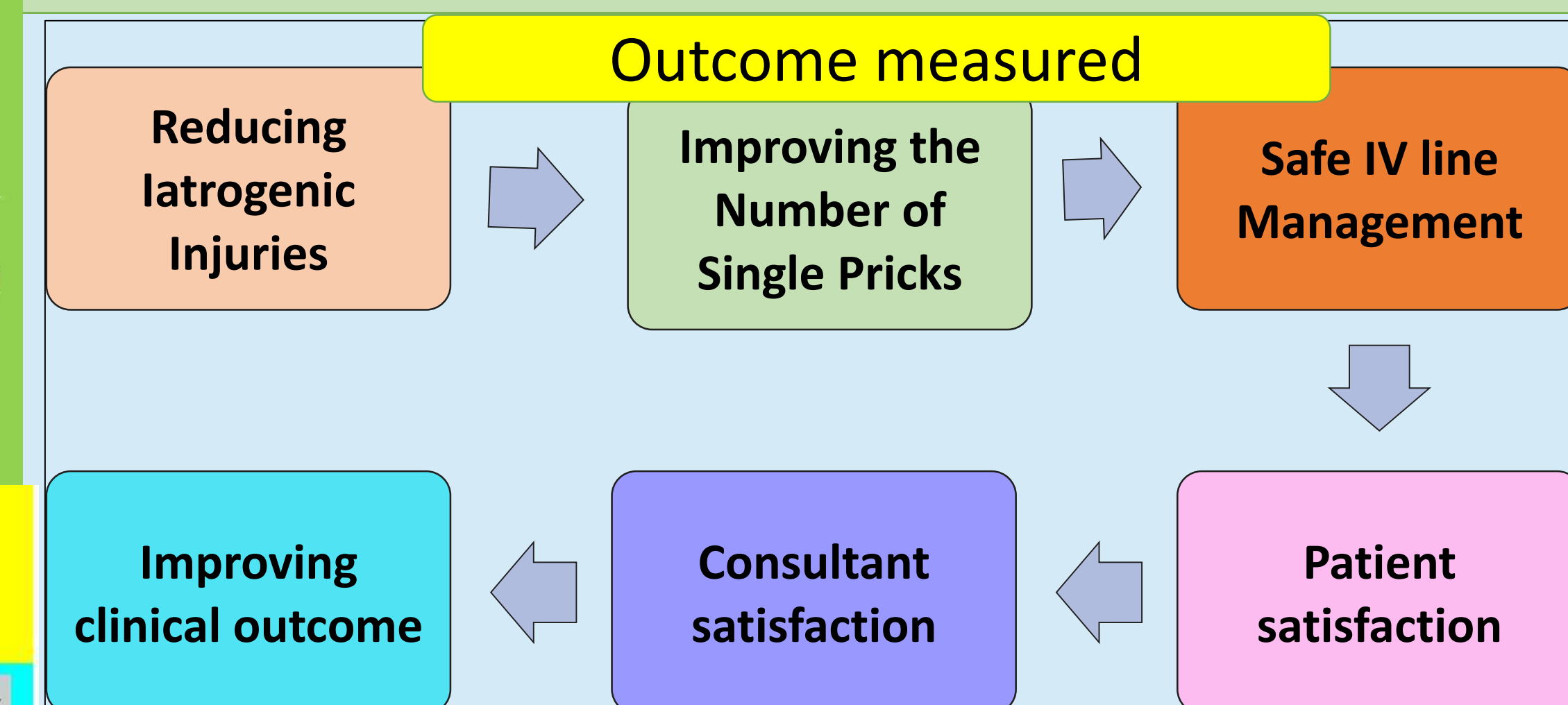


Knowledge of Nurses on Peripheral IV line Infection Prevention Strategies–Before & After Implementation of Best Practices



Interventional Package on Safe IV Practices

- **Hands-on Training session** on safe IV practices using Mannequins
- **Strict Adherence to Evidenced Based Best Practices** - Closed IV system, Transparent IV dressings and others right from IV Insertion till Removal.
- Formation of **Infusion Nurses Team** – For Extended Coverage and Follow up .
- **Clinical Supervision by Nurse Leaders** for early detection & Management of IV complications
- **Video Teaching on “How to Spike, Prime, and Handle the IV Tubing's “** (created our Own video as per Recommended Guidelines . Been shared to our Nurses regularly –<https://youtu.be/9SxAIt40ro>)
- **Preceptorship through Bed side teaching, CNE, Workshop, OJT**
- **Nursing Audits** on safe Infusion practices and prevention of phlebitis



METHOD

Design	Descriptive study
Setting	All wards and ICUs of Mehta Multispeciality Hospital
Population	All Nurses working in wards and ICUs
Sampling technique	Random Sampling Technique
Sample Size	Audit I -63 (Jan 2021); Audit II -100 (Oct 2022)
Tool	Sec A –Observational Checklist with 11 criteria Sec B –Knowledge on Peripheral IV Line Policies Sec C –Knowledge on Techniques in Preventing Peripheral Line Infection
Score Interpretation	85-100- Adequate 60-84- Moderately adequate < or equal to 50- Inadequate
Data Collection Procedure	Audits initiated during 2021, Implemented Best practices related to Safe IV practices and post implementation audit done during 2022. HIC link Nurses in each units were the Auditors who did Audit in other units

CONCLUSIONS

The bedside practice was improved from **83% to 88.8%**, knowledge on preventing IV line complications improved from **51% to 88.4%** but knowledge on policy was slightly reduced from **91% to 89.8%** due to Nurses Turn over. The key Interventions implemented in this study have been adopted as a standardized protocol to maintain Safe IV practices and the study is been continued once in 6 months.

ACKNOWLEDGEMENT

- We would like to thank the entire Nurse Leadership Team for executing the Audits successfully thus ensuring patient safety through Quality Nursing care
- Would like to render thanks to our Bed side Nurses for adopting the Evidenced Best Practice enthusiastically and joining Hands in Safe IV practices
- Sincere Thanks to our Management for Empowering Nurses in Implementing Best practices pertaining to Safe IV practices and bringing out successful Clinical outcome. Also enabling us to set up the **Simulation lab** with Mannequins for Hand on Practice
- Thanks to Clinicians, Duty Doctors, Pharmacy Team & other co workers in supporting the study

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