



**Singapore Healthcare Management 2018**

# Nurse-Led Hypoglycemia Protocol - A Revisit Tool to improve Inpatient Diabetes Care in Singapore General Hospital

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## Problem

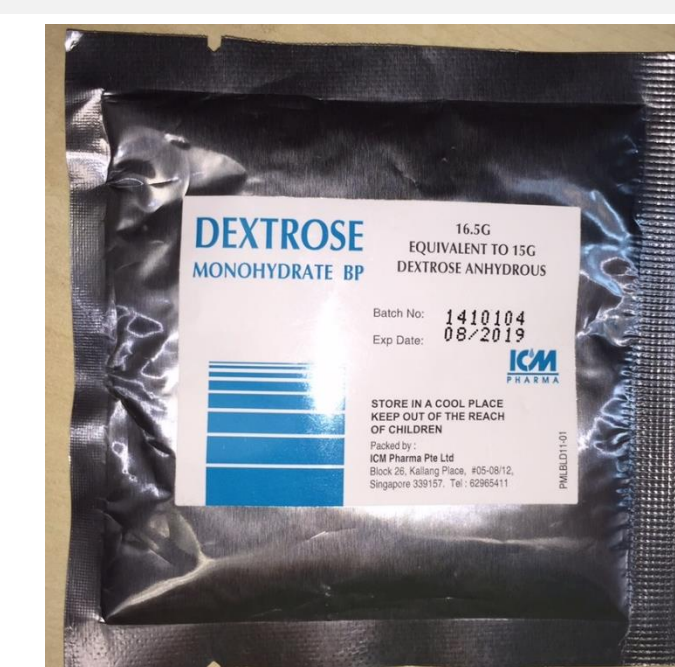
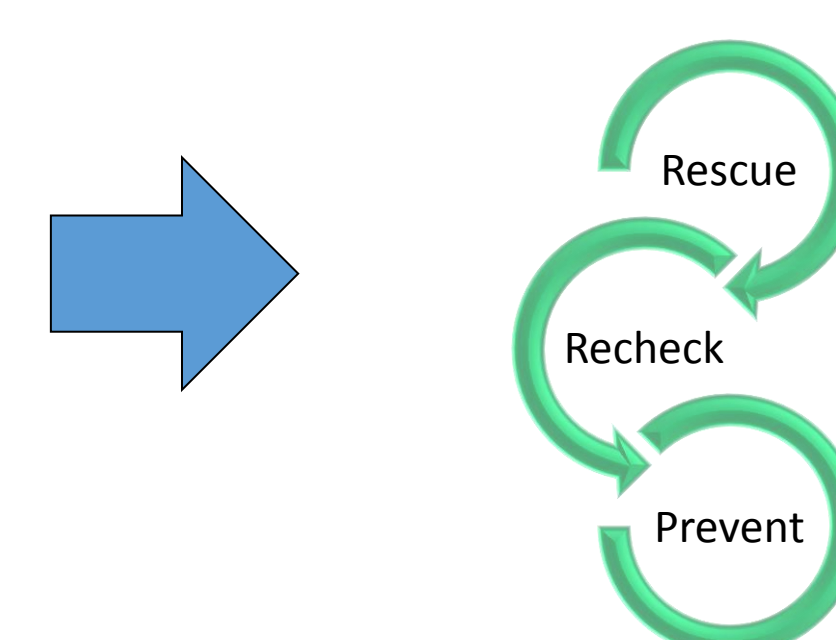
Prior to the implementation of nurse-led protocol, hypoglycemia was treated with the use of loose dextrose in tub that lead to :

- Improper measurement of 15gms CHO
- Improper choices of quick acting CHO
- Poor documentation of hypoglycemia
- Lack of awareness and standardized hypoglycemia treatment that resulted in delayed or under treatment of hypoglycemia



## Objectives

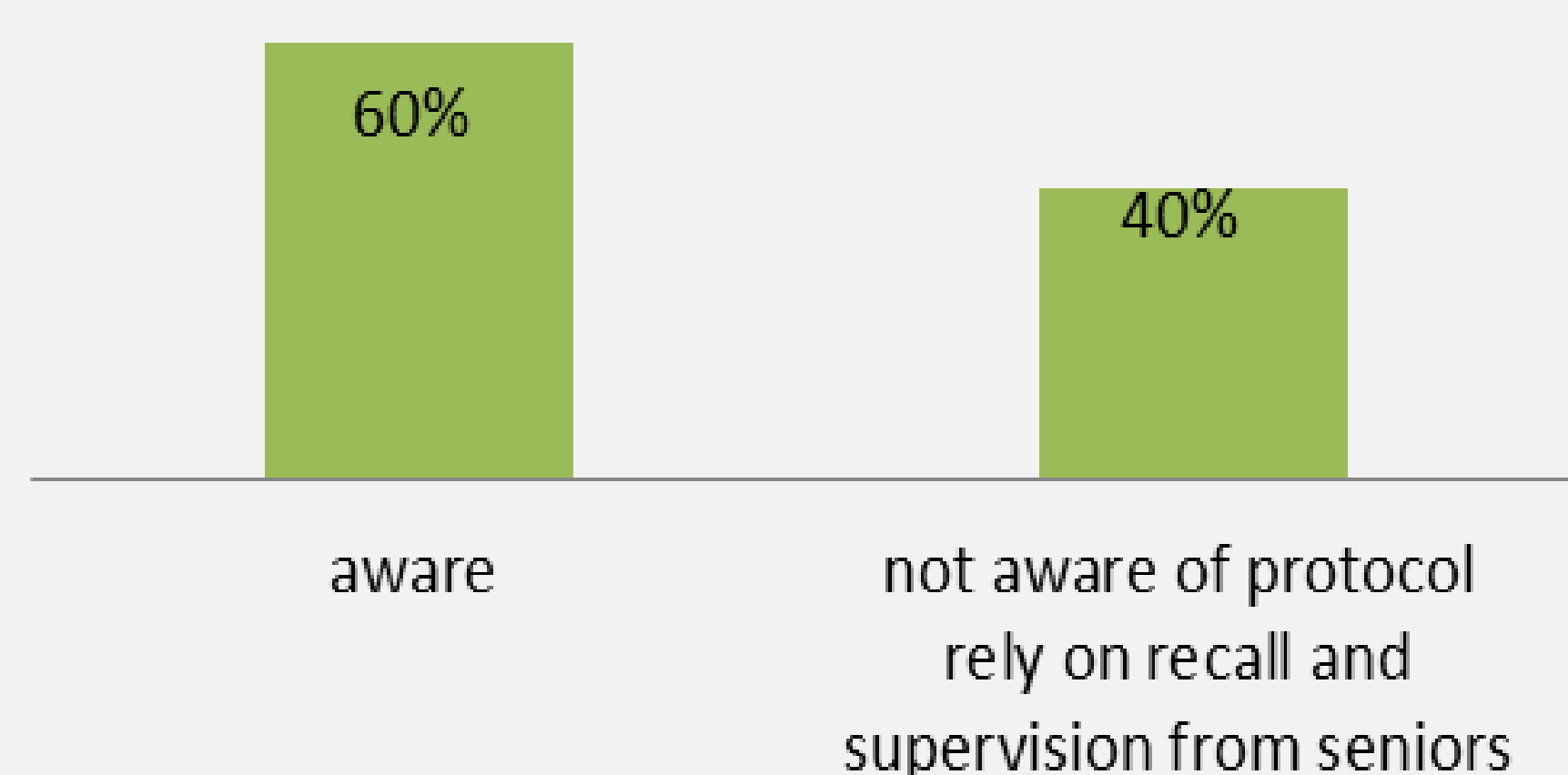
The implementation of this protocol was in tandem with the use of dextrose sachet, replacing the loose dextrose in tub. It aims to provide prompt and safe treatment for the patient when symptoms of hypoglycaemia are present.



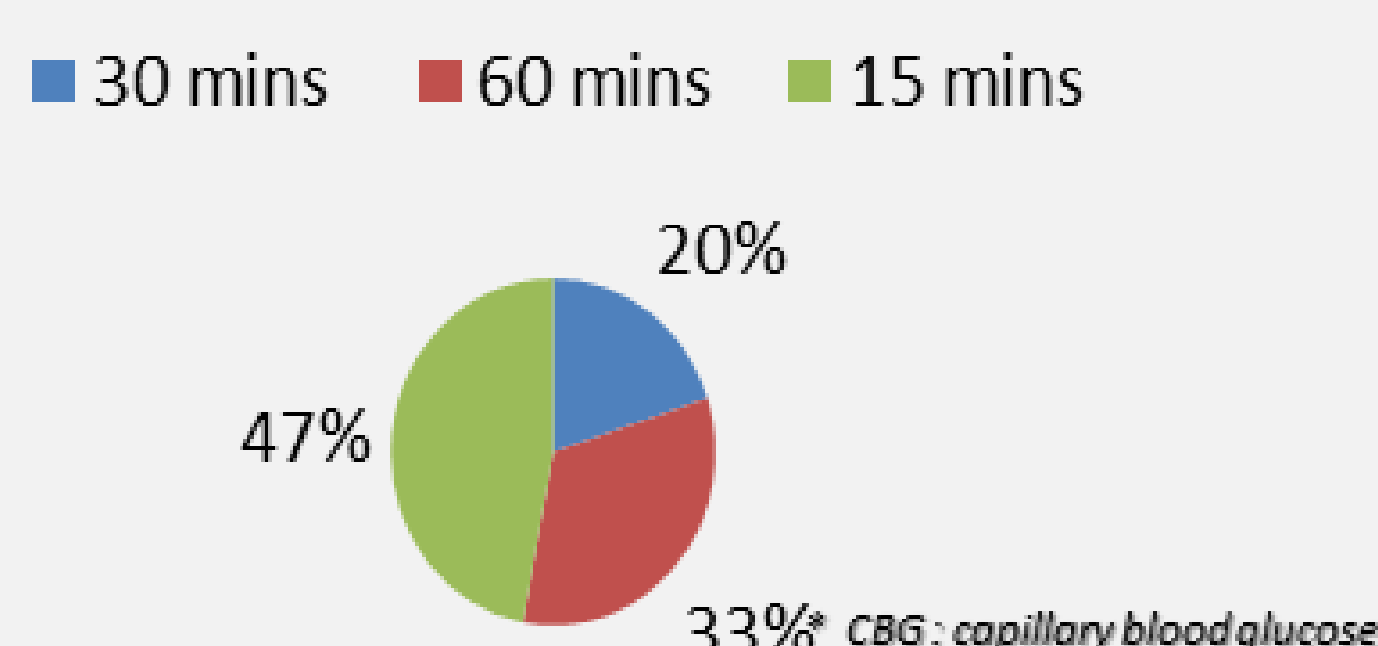
## Analysis of it Causes

An audit was performed in several wards

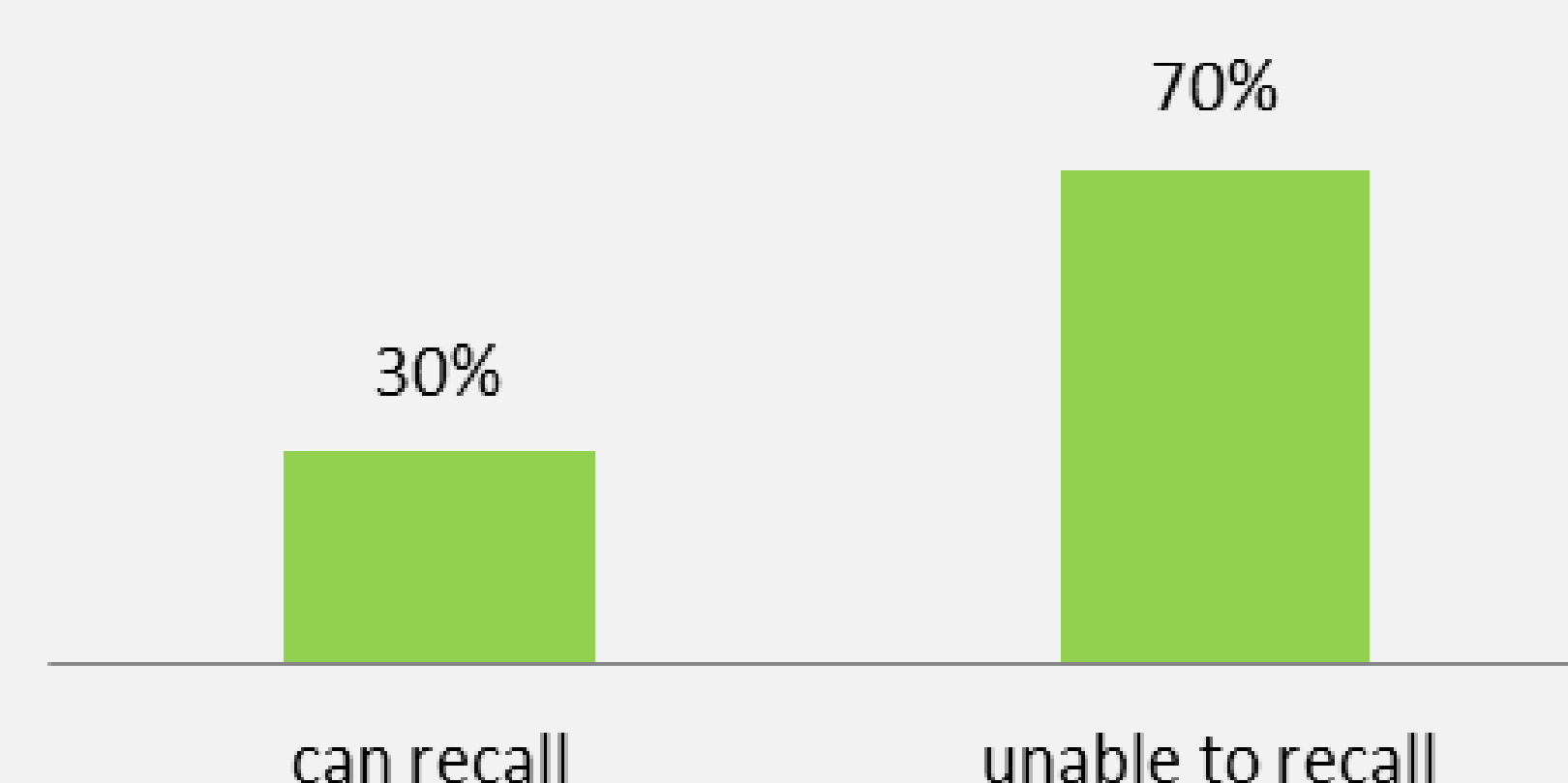
### Awareness level of hypoglycemia protocol



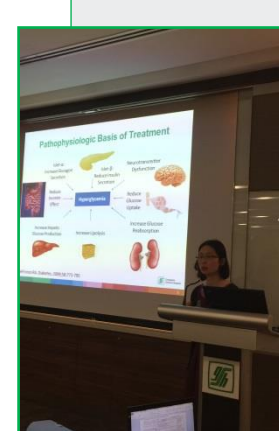
### Variation of time in Rechecking \*CBG after treatment of hypoglycemia



### Recall of Hypoglycemia treatment with IV D5% and D10%



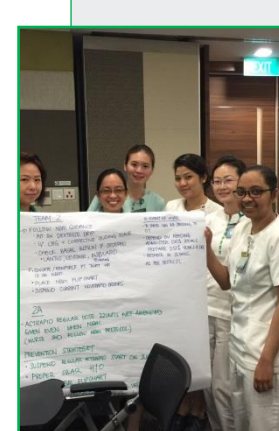
## What Change can we make that will result in an improvement ?



Rebranding and enhancement of protocol as Nurse-Led Hypoglycemia Protocol



Gather Support from nursing and other allied /department  
Presented at Chairman Medical board for approval from higher management



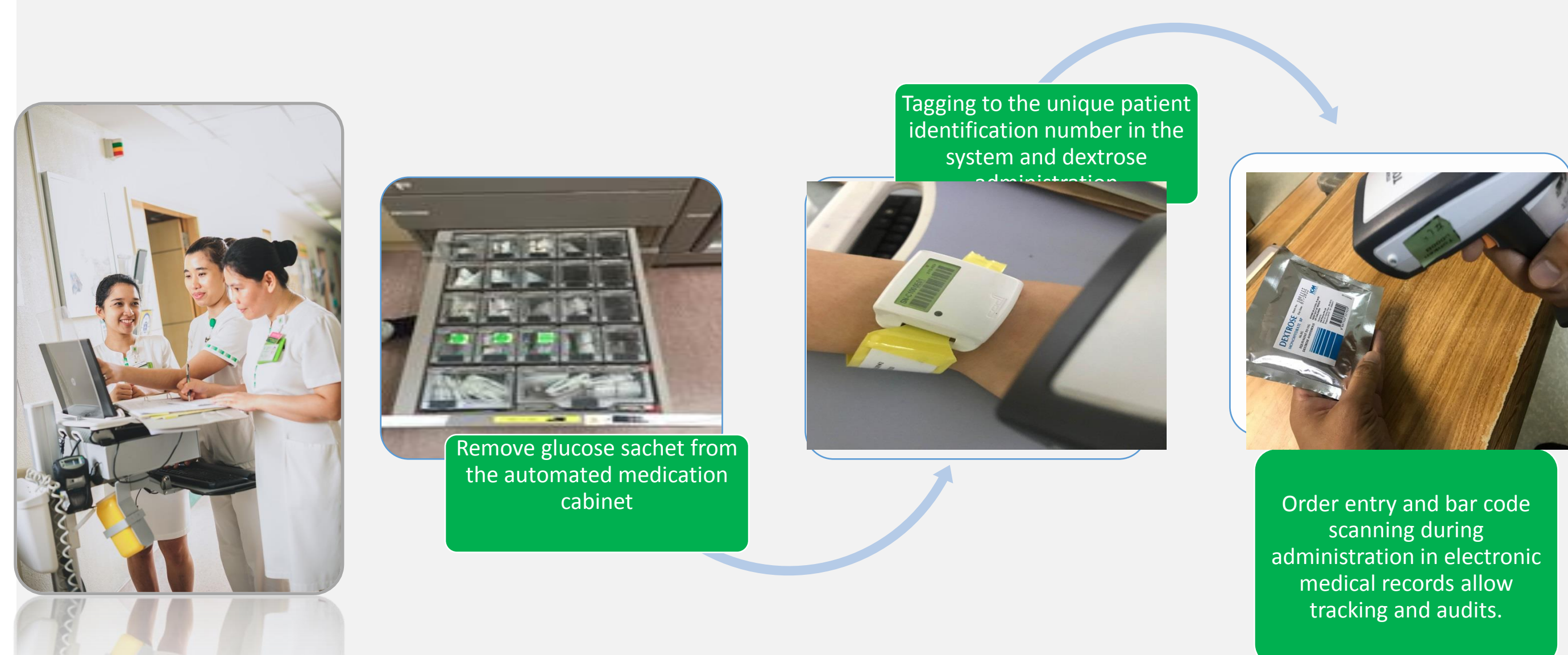
Introduced Train the trainer session  
Compulsory E-Blackboard learning and inservices conducted



Liaising with pharmacy procurement to supply Dextrose Sachet and IV D10% to the wards

## How did we do it ?

Nurses follow the standard algorithm to treat hypoglycaemia. A systematic stepwise work process include:



These further enhanced nurses' compliance and patient safety.

## What Have We learnt?

Collaborative teamwork among health care professionals are crucial to promote patient safety .Mutual understanding towards improvement of care to promote patient safety is of paramount importance. It involved multi-prong approach in planning, training ,listening and feedback from the ground to refine the protocol such that it is easy to follow and carry out.

## Feedback

After a series of training, 100% of the 2,077 inpatients RNs passed the competency assessment. Incidents of hypoglycemia post-implementation are under review and results are forthcoming.