

Project Title

A Patient Safety Initiative in Improving Medication Safety of Controlled Drugs (CD)

Project Lead and Members

- Catherine Sandra Paul
- Soe San Aung Myo
- Wu Peiru
- Hoon Siew Jong
- Jennifer DL Andaya
- Nur Asshiqkin
- Maria Boey Soh Qi

Organisation(s) Involved

KK Women's & Children's Hospital

Healthcare Family Group(s) Involved in this Project

Nursing, Pharmacy, Healthcare Administration

Applicable Specialty or Discipline

Gynaecology, Oncology, Palliative Medicine, Facilities Management

Aims

- To mitigate risk for medication error with a well-organised CD cabinet
- To reduce CD wastage by ensuring First Expiry First Out (FIFO)
- To improve staff satisfaction by ease of retrieving the correct CD

Background

See poster appended/ below

Methods

See poster appended/ below

Results

See poster appended/ below

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign, Value Based Care, Safe Care, Risk Management, Build Environment, Quality Improvement

Keywords

Target Zero Harm, Medication Safety, Medication Error, Controlled Drug, Compartment and Storage, First Expiry First Out

Name and Email of Project Contact Person(s)

Name: Catherine Sandra Paul

Email: singaporehealthcaremanagement@singhealth.com.sg



A Patient Safety Initiative in Improving Medication Safety of Controlled Drugs

Catherine Sandra Paul¹, Soe San Aung Myo², Wu Peiru³, Hoon Siew Jong⁴, Jennifer DL Andaya⁵, Nur Asshiqin⁶, Maria Boey Soh Qi⁷

¹KKH Ward 42, ^{2,5 & 7}KKH Ward 43, ³KKH Pharmacy, ⁴KKH Division in Nursing, ⁶KKH Ward 44

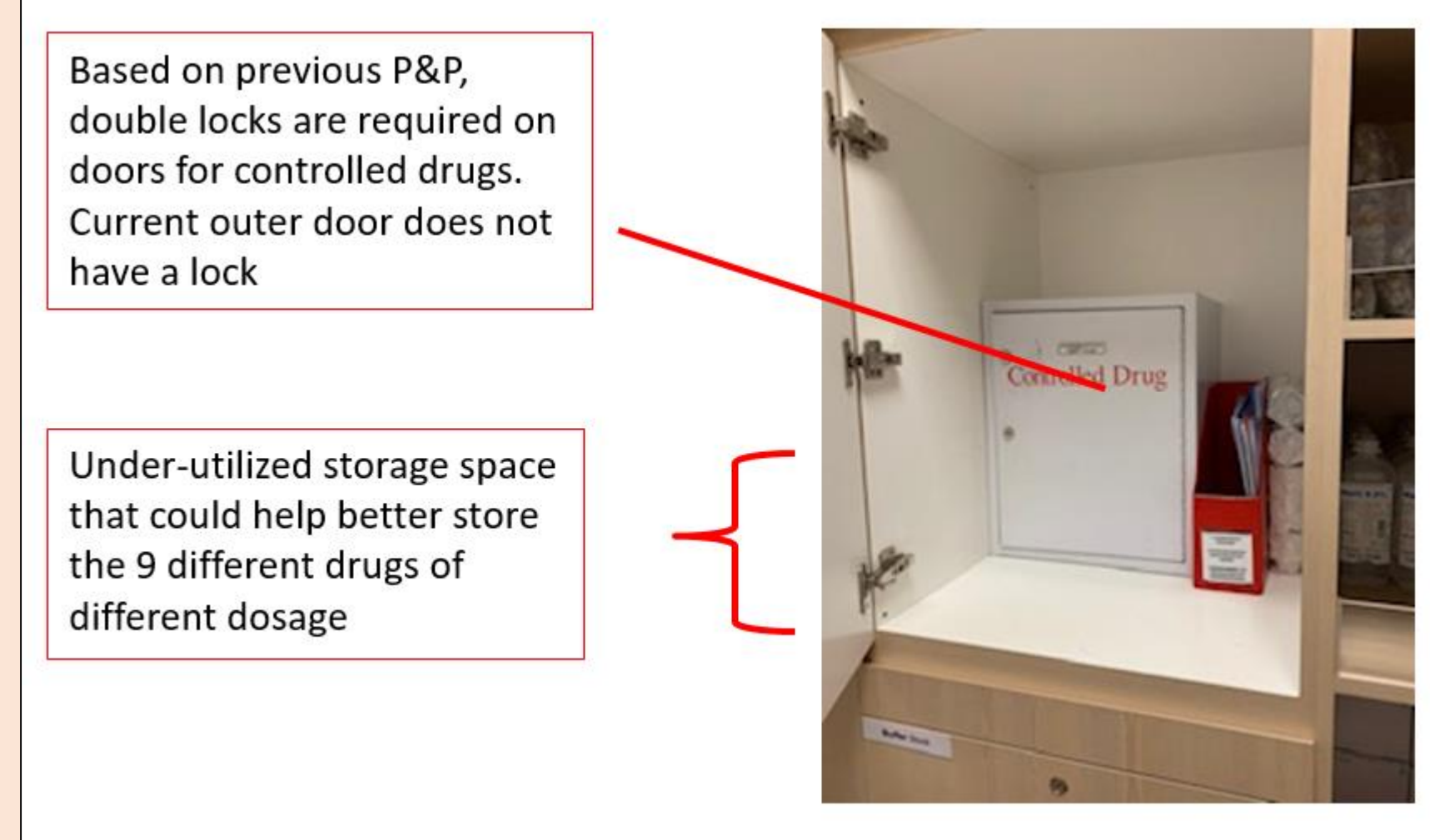
Introduction

Ward 43 is a Gynaecology Oncology ward; with a complex patient acuity. The ward stores multiple types and dosages of Controlled Drugs (CD) which includes patient's own controlled medications. In addition, there is a seasonal influx of palliative patients with their own poly pharmacy consisting of different types of CD. The similar name, similar packaging and different dosages kept in the current metal cabinet posed a risk for Medication Error. The expected error was foreseen as the nurse inability to differentiate when retrieving the required drug and dosage due to poorly labelled containers and space constraint of the current metal cabinet.

Aim(s)

The aim of the project is to:

- Mitigate risk for medication error with a well organized CD cabinet
- Reduce CD wastage by ensuring First Expiry First Out (FEFO)
- Improve staff satisfaction by ease of retrieving the correct CD



Ward 43 CD Cabinet (Pre implementation)

Methodology

A workgroup was formed in August 2019; with Ward 43 nurses, Principal Pharmacist and Facility Management (FM).

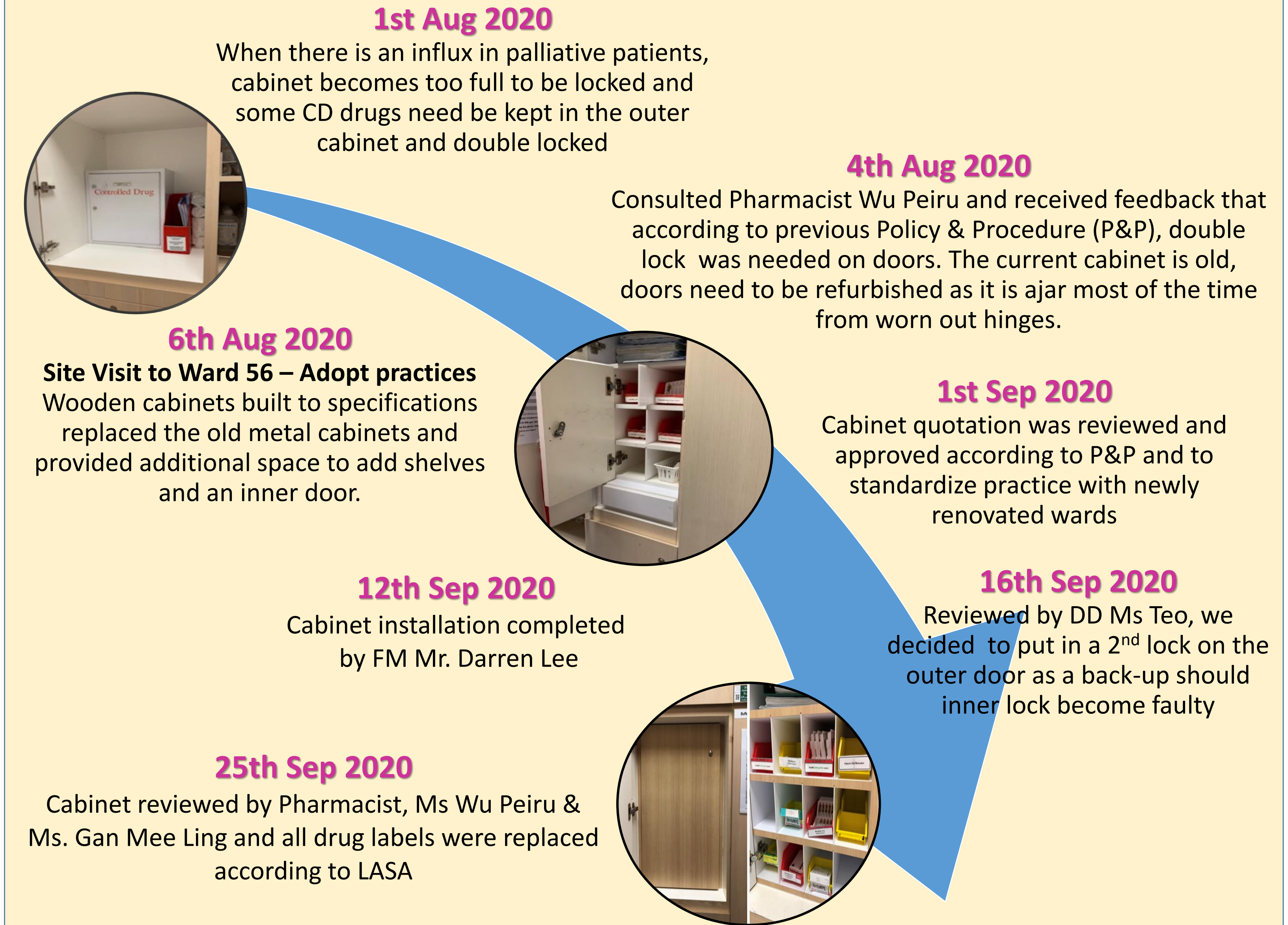
The following problem were identified by the team:

- Space constraint of existing CD cabinet
- Protocol breach in placement of CD for look-alike sound-alike (LASA)
- Excessive procurement of CD stock
- Worn-out CD labels

A revamp of the CD cabinet with Pharmacy, Ward Nursing Team and FM input to create compartments and storage for individual CD. Our pharmacist reviewed the CD placement to ensure that LASA drugs are spaced apart from each other. New CD drug labels were printed and replaced the worn out labels using "tall men lettering". The "To Use First" labels onto CD with shorter shelf-life was initiated to ensure First Expiry First Out (FEFO).

The CD usage needs of patients in this ward changed from time to time due to the needs of different individual palliative patient. Hence, the project team will monitor and adjust the CD quantity procured accordingly. This would ensure sufficient CD required by the ward is kept to meet patients' urgent needs but not in excess which may result in unnecessary write-offs.

Timeline of events



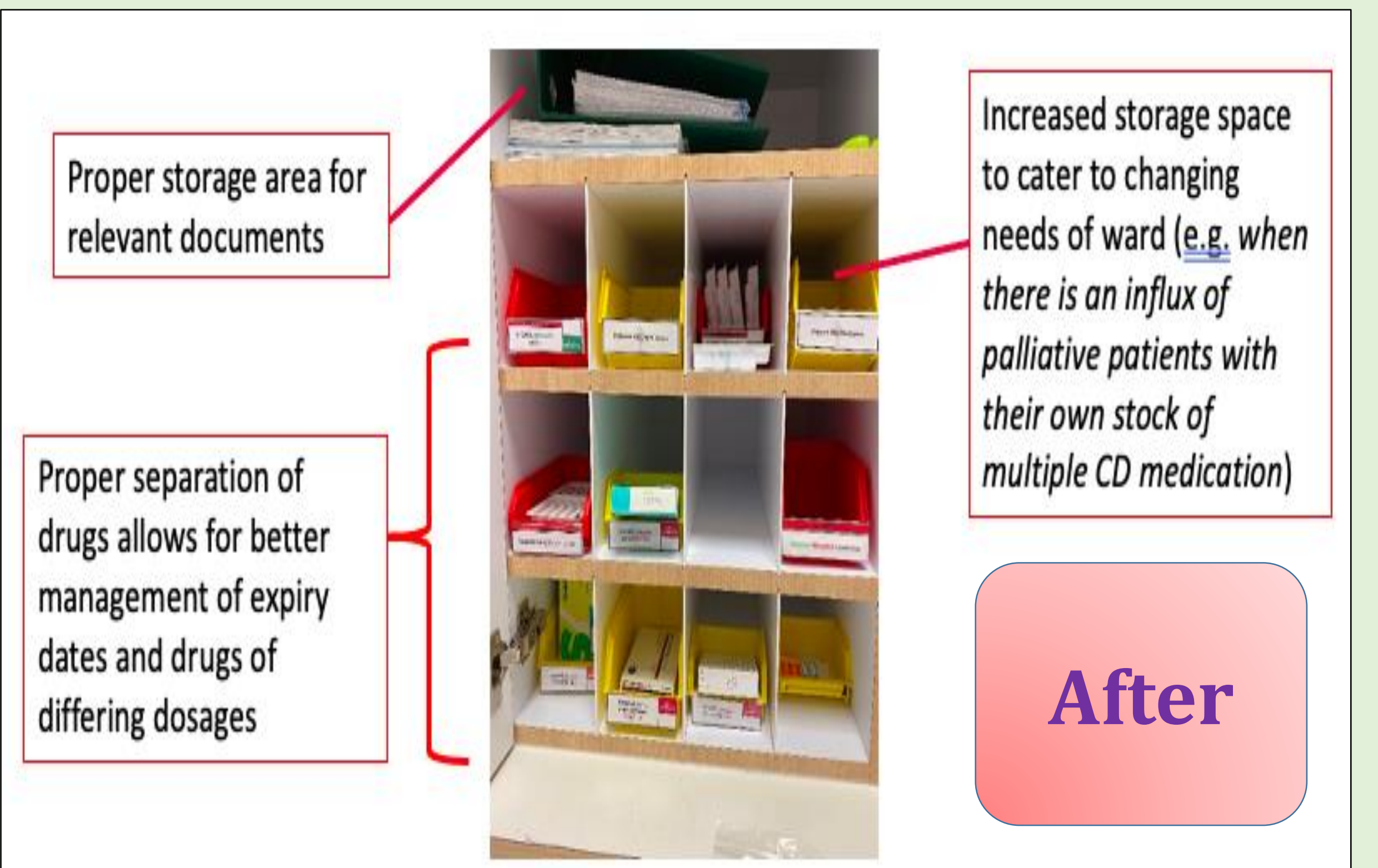
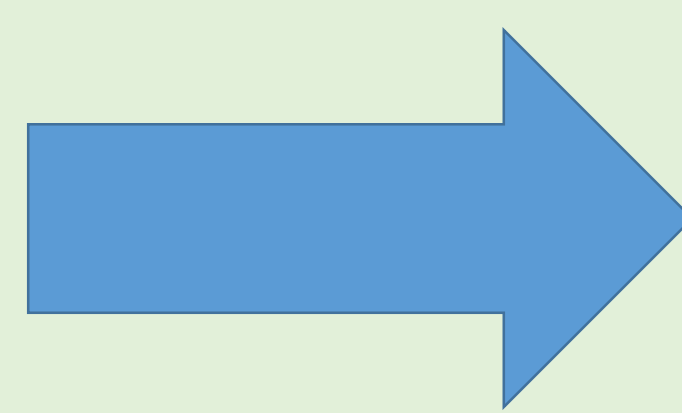
Result

We achieved all three (3) aims of the project as stated above.

Implementation of the project has improved patient's safety by mitigating the risk for medication error.

With the individual compartments, clear separation using LASA and clear labels using "tall men lettering", staffs are able to locate the correct type and dosage of CD.

Staff needs, satisfaction and most importantly patient and staff safety has been met.



Conclusion

The enhancement of the CD cabinet was initiated by the nurses who identified a safety concern; this initiative is vital and essential in maintaining the hospital's quality and safety standards for our patients. The nurses and pharmacist collaborative effort strived for better patient care and amplified our hospital's goal of "TARGET ZERO HARM".