Closed Loop Medicines System **Advanced Automation**





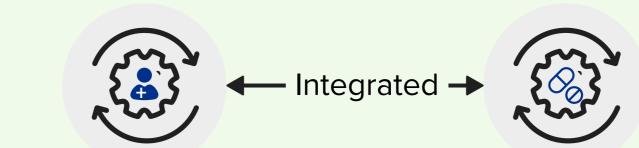


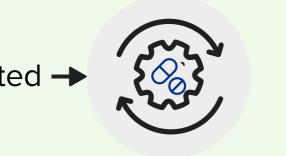
scanner

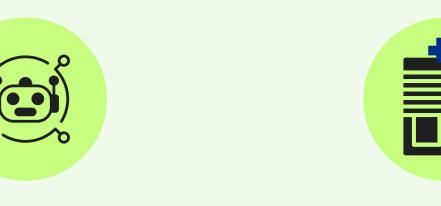












Automated

process



Digital Medicines

Wristband

Barcode printer

Workstation on wheels

Dispensing robots

EPR system

system

Automated drug cabinet (ADC)

WHAT IS CLOSED LOOP MEDICINES (CLM)

A Closed Loop Medicine System is a process which involves the use of digital healthcare IT systems to support all stages of the medicine management process. This includes the electronic transfer of information for prescribing, dispensing, procurement and administration in real time.

It is not a piece of equipment that can be purchased and implemented, but a work process that utilises digital health care IT systems to improve productivity and patient safety.

ABOUT THIS SERVICE BLUEPRINT

This blueprint simplifies the advanced-level Closed-Loop Medicines System process in hospitals, tracking the patient's medication journey from admission to discharge, with a focus on Automated Drug Cabinets (ADCs).

It highlights the key stages of prescribing, dispensing, administering, and recording medicines, and demonstrates how advanced technology, including ADCs, contributes to improve safety and efficiency.



Important Notice

This service blueprint provides a high-level, generic view of the happy path for Closed-Loop Medicines System. It does not include process deviations or the specific workflows of hospitals that have already implemented CLM.

HOW TO READ THIS BLUEPRINT

This blueprint shows the steps in giving medicines to patients, from when they arrive at the hospital to when they leave. Each section explains what happens, who's involved, and what systems are used.

Look for the symbols, acronyms, and colours explained to the right to understand the blueprint easily.

KEY

Type of actions and events

Solid line - Core events/steps

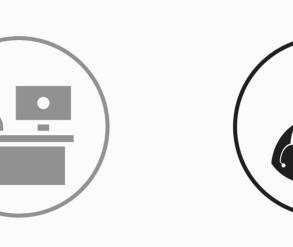
Dashed line - Occasional events/steps

People



Patient







Doctors



nurses

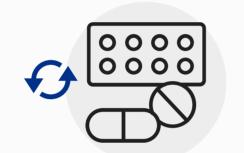






Pharmacy porter

Medicines



drugs

Ward stock drugs



Controlled

drugs

Carer



Patient

own drugs

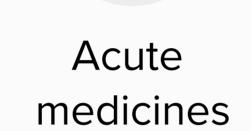
Admin

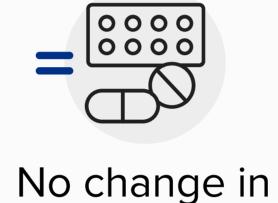








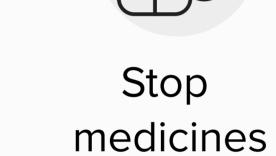




medicines



medicines





medicines





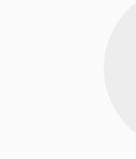
Software and data

Manual entry Automated entry

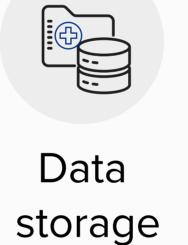










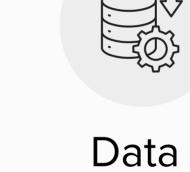


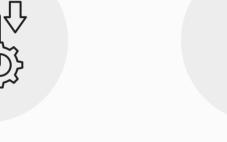


system

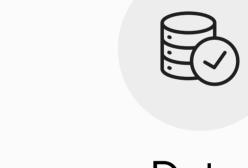


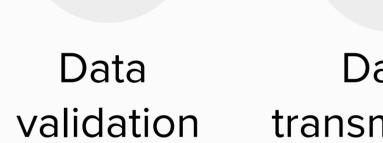


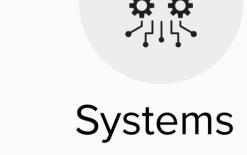


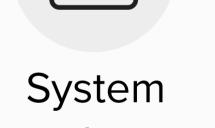












Automated

process

Hardware and medicines store

Coded data



Wristband



Barcode

scanner



Barcode

printer





Workstation

on wheels

(Wow)

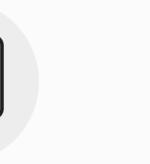
Paper

record



Bedside

locker





Drug

treatment





Locked

cupboards in

treatment room





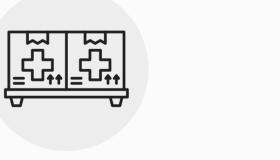
Dispensing

robots

retrieval







Medicines store cabinet (ADC) Medicines supply

Patient's touchpoints and channels



Admission



Paper

form



Digital





Consent



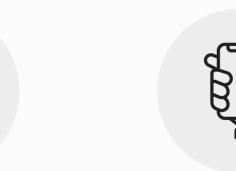
Info

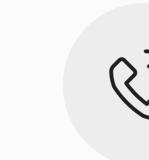
Leaflet



Experience

Survey





69 Contact

number

Acronyms

- CLM: Closed Loop Medicines / CLMA: Closed Loop Medicines Administration
- CLMS: Closed Loop Medicines System
- **EPR: Electronic Patient Record**
- ePMA: Electronic Prescribing and Medicines Administration