Closed Loop Medicines System Intermediate Automation

Key Tech Components





Barcode

scanner



Barcode

printer



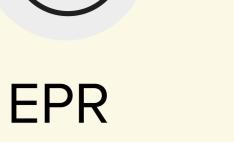
Workstation

on wheels

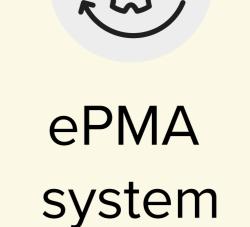


robots





system





Digital Medicines

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 intermediate-level Closed-Loop Medicines System process in hospitals, tracking the patient's medication journey from admission to discharge.

It focuses on the key stages of prescribing, dispensing, administering, and recording medicines, and how technology contributes to safer practices.



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



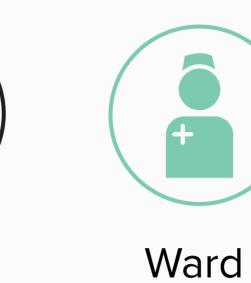
Patient





Admin





nurses







Pharmacy

porter

Medicines



Non controlled

drugs

Ward stock drugs



Controlled

drugs



Patient

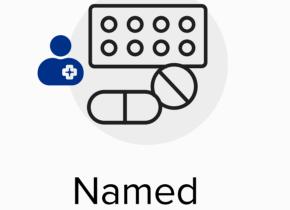
own drugs



IV Drugs







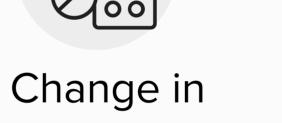
patient's drugs

team

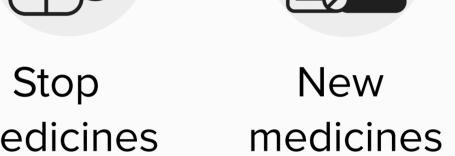








medicines





Allergies

Software and data

Manual entry Automated entry





Coded data



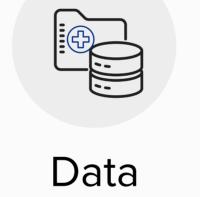
Digital

record



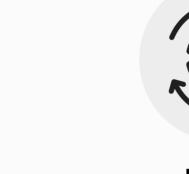


record



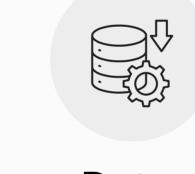
storage





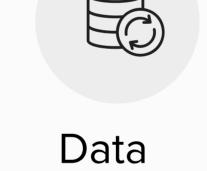


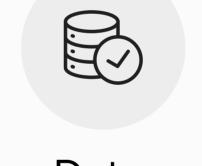


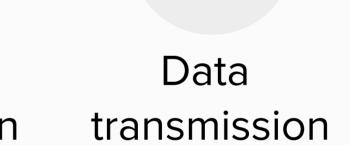


retrieval











System

Hardware and medicines store



Wristband



Barcode

scanner



Barcode

printer

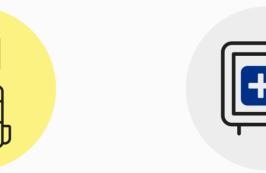




Workstation

on wheels

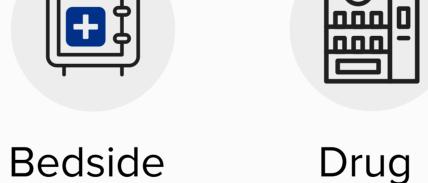
(Wow)





locker







system

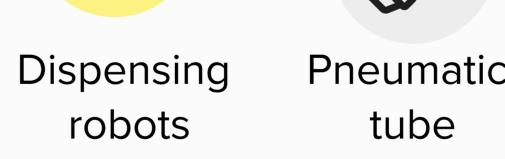


cupboards in

treatment room









Medicines store Medicines supply

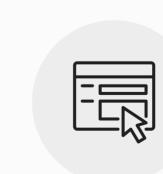
Patient's touchpoints and channels





Paper

form



Digital

form







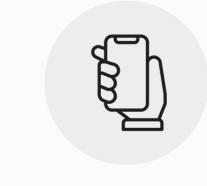


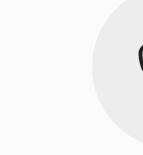
Leaflet



Experience

Survey





3

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