SAFERCARE

The Clinical Information System (CIS) Pharmacy Team supports the following:

- ❖ Cerner PharmNet Inpatient
- ❖ Cerner Clinical Inventory Management
- ❖ Infusion Pumps:
  - o Alaris Large Volume Pump (LVP)
  - o Alaris PK Anesthesia Syringe Pump
  - o CADD Solis HPCA
  - o CADD Solis VIP
  - o IRadimed MRidium 3860+ MRI IV Pump
- ❖ ARxIUM Medication Packager and Verifier
- ❖ Pyxis ES Medication Dispensing Cabinets
- ❖ ScanRx (internal ordering communication program)
- ❖ WinRx (outpatient pharmacy orders and oncology medication billing)
- ❖ Bartender (label making software)
- ❖ Clinical Pharmacy KPI Tracker (Pharmacist stats)
- ❖ MediNet (care provider access to PharmaNet)
- ❖ PakEDGE medication unit-dose machines
- ❖ Pharmacy Keeper (future)
- ❖ McKesson PACMED Medication Packager & Verifier (future)

Cerner PharmNet Inpatient

- ❖ PharmNet: Medication Manager is the application pharmacy staff use to enter and verify inpatient medication orders written in the paper chart today. When facilities change to CPOE, pharmacists won't have to enter orders anymore but will continue to use this application to verify medication orders ordered electronically by providers.
- ❖ PharmNet: Medication Manager provides drug-allergy and drug-drug interaction checking when patient medication orders are entered in the application.
- ❖ Once orders are entered and verified, a paper medication administration record (MAR) is generated from Cerner for the patient so nursing can chart the medications they are administering to the patient. When facilities change to CPOE, nursing staff will use an electronic medication administration record (eMAR) instead of a paper MAR.
- ❖ Upon order verification, patient specific labels are generated for medications to be sent from the pharmacy department. The medications are filled and checked, then sent to the nursing ward. Medications are sent for initial doses, refill requests, and batches.

Clinical Inventory Management

Any medication/product sent to nursing units from pharmacy, whether general ward stock or a patient specific order, is created in the Cerner and Pyxis systems by our team.
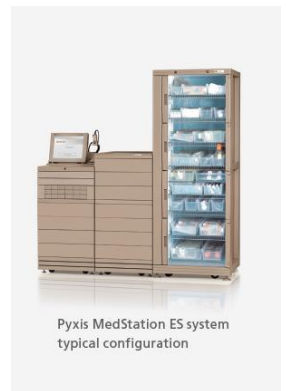
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- ❖ Items are ordered from vendors through the system when inventory drops to a predetermined reorder point in Cerner, and are entered back into Cerner when stock arrives, to continually (perpetually) manage medication inventory in our pharmacy departments.
- ❖ How are meds sent from Pharmacy to nursing units?
  - o Some items may be unit dose packaged (single pill/dose in a single package)
  - o Others are multi dosed packaged – usually this is for long-term care facilities
  - o Each label contains patient-specific information
  - o Pharmacy also distributes general wardstock or refills Pyxis devices on the units
  - o Larger pharmacies will send to smaller hospital pharmacies elsewhere in Northern Health.
- ❖ All these transactions (purchasing, receiving, wardstock, patient-specific orders) are captured in reports used by the Finance department and managers to track costs and usage for specific drugs in NH.
- ❖ If an item is built in our Cerner system, we can help determine appropriate inventory at specific sites for proper patient care.

Pyxis ES (Enterprise System)

- ❖ Pyxis is a cabinet-based storage system used to store and track medications.
- ❖ Pyxis integrates with our hospital information system, Cerner, for patient medication orders and information, as well as our Northern Health Active Directory to control user management and access.
- ❖ Using a computer in the Pyxis MedStation ES system main cabinet, users unlock and open drawers in the cabinets, to access medications. For sites that utilize a profile Pyxis system, the medications are removed via the patient profile of pharmacy-verified orders. This satisfies accreditation standards and Northern Health policy, where a pharmacist is to review all medications prior to administration except for an emergency.

Pyxis MedStation ES system typical configuration

- ❖ The system brings value to NH, to reduce chances of medication errors, enhance quality of care, maintain compliance with regulatory requirements, and control costs.

Automated Medication Packagers

- ❖ NH currently has an ARxIUM medication packager at UHNBC and a smaller PakEdge unit-dose packager at DCDH and FJN.
- ❖ MMH (new build) and DCDH (current facility) will install PACMED medication packagers in 2024/25. This will allow these sites to repatriate workload from UHNBC and private pharmacies (LTC), and eventually provide medication for surrounding acute care and LTC facilities.

❖ These packagers include verification units, to ensure the correct meds are packaged for the patient.
❖ Barcodes can be printed on these packages for closed loop medication administration (Phase II of Safer Care).
❖ The Pyxis ES Units can send inventory restock requests to the packagers, reducing manual order entry by pharmacy staff (potential future functionality).

ScanRx

❖ ScanRx replaced faxed paper orders from nursing to pharmacy.
❖ Nursing currently scans orders to pharmacy using the Xerox machines on their units.
❖ In pharmacy, these orders are viewed electronically. This allows multiple staff at different sites (technicians and pharmacists) to communicate and facilitate technician order entry and pharmacist verification easily and immediately, regardless of physical location of staff. Orders can be retained for pharmacy use and are easy to recall if needed. CPOE will replace the need for this program.

PharmaNet Connections

❖ WinRx is a program NH pharmacy staff use to access and provide medication order information to PharmaNet and is used for outpatient services and oncology. It allows:
  o Outpatient order information to be uploaded to PharmaNet
  o Oncology medication billing to be submitted to BC Cancer for reimbursement
❖ Care providers in acute and community sites use MediNet to retrieve patient medication history from PharmaNet, for BMPH (Best Possible Medication History) and medication reconciliation.
❖ We will have direct integration between Cerner PowerChart and PharmaNet with SaferCare (will replace MediNet for acute care).

MyNH all-staff page
bit.ly/3PTFeSC

Physician/med staff webpage
http://bit.ly/441kjCK