



Δ

Cassi Prosper, CPhT Lead Narcotic Quality Technician Sutter Memorial Medical Center Modesto, California Director/Instructor Pharmacy Technician Program Modesto Junior College

MODESTO





## AUTOMATED DISPENSING CABINET (ADC) TECHNOLOGY

## SOPHISTICATED SOFTWARE

- Patient orders
- Medication dosing documentation
- Inventory management
- Billing transactions

# ADCs In PHARMACY

By a show of hands, how many of you have Automated Dispensing Cabinets at your facilities?





## IMPLEMENTATION OF ADCs

Opportunity to extend its services beyond working hours

- Increase the accessibility of medication
- Turnaround time for medication delivery from pharmacy to patient care units will be decreased
- Effective computer-based documentati
- Tighter control over medication and operational costs







# PREVENTATIVE ROUTINE MAINTENANCE KEEPS OUR ADCs OPERATIONAL

- enceking writes
- a checking auxiliary barrene
- Checking sensors and other hardware

Review your service contract!

11















## DATA ANALYSIS

Data will be utilized during the initial optimization setup as well as on a continual basis for upkeep. Data provides insight to all ADC transactions and tracks medication inventory

- Appropriately trained staff for running reports
- Pharmacy dashboa
- Canned reports
- Accurate & reproducible
- Analysts to perform data analysis
- Tackle optimization in a phased approach



20

22



# DRAWER CONFIGURATION Locations Determined With The End User In Mind • Top and bottom drawers should hold slow movers • Fast movers & larger meds in waist-height drawers • Controlled substances near eye-level

Organize layout to maximize space







## **RESTOCKING WORKFLOW**

- Monitor technician workload to ensure efficiency
- Reports to show time taken to complete a restock
- Consistent delivery schedules
- Even distribution of workload-based restock volume

26



## MEDICATIONS WITH ACTIVE ORDERS

- Filter reports for ease of manipulation by patient care area
- Exclude meds that cannot be loaded into ADC

28











- \* 70% reduction in waste
- ♦ Stock out rates decreased by more than 50%

Optimization of ADCs through par level optimization, review of common stock, and removal of infrequently used medications reduced pharmacy technician labor, decreased stockout percentages (which decrease omitted medication errors), generate opportunities for cost avoidance, and improved medication turnaround times.

32



33



### **65** Automated Dispensing Cabinets

Through management of ADC par levels, the authors saw a reduction in the amount of medications dispensed manually from the central pharmacy, a decrease in the frequency of medication stockouts on the patient care units, and were able to increase overall cabinet inventory while decreasing cost.







39

## WHICH ONE IS A COMMON ADC CONFIGURATION STRATEGY?

- a) Top & bottom drawers should hold slow-moving medications
- b) Top & bottom drawers should hold fast-moving medications
- c) Refilling medications that are stocked out
- Annual dust removal of hardware within all machines

WHICH ONE IS A COMMON ADC PREVENTATIVE MAINTENANCE PROCEDURE?

- a) Top & bottom drawers should hold slow-moving medications
- b) Allowing overrides on critical medications
- c) Refilling medications that are stocked out
- d) Annual dust removal of hardware within all machines

38



WHICH OF THESE IS <u>NOT</u> A COMMON STRATEGY USED **TO OPTIMIZE ADC INVENTORY?** 

a) Ergonomic drawer-configuration

- b) Removing unused medications
- c) Loading medication with active orders
- d) Setting very low PAR levels to reduce cost

