FROM AWARENESS TO ACTION

Strategies for Drug Diversion Prevention and Detection

ASHLEY HALLORAN, PHARMD

VP OF PHARMACY OPERATIONS

ERIE COUNTY MEDICAL CENTER, BUFFALO NY

ASHLEY HALLORAN

- VP of Pharmacy Operations, ECMC
 - 550 BED LEVEL I TRAUMA CENTER
 - BUFFALO NY
- No Disclosures

OBJECTIVES

- DEFINE DRUG DIVERSION
- DISCUSS THE IMPACT OF DRUG DIVERSION
- DISCUSS PREVENTION STRATEGIES
- DISCUSS THE ROLE OF TECHNOLOGY IN DETECTION
- Share Case Studies

DRUG DIVERSION

- ISMP A MEDICAL AND LEGAL CONCEPT INVOLVING THE ILLEGAL MOVEMENT, ADULTERATION, MARKETING OR TRANSFER OF ANY LEGAL MEDICATION ANYWHERE WITHIN THE SUPPLY CHAIN.¹
- NY BUREAU OF NARCOTICS ENFORCEMENT (BNE) MANUFACTURE, POSSESSIONS, DELIVERY OR USE OF A CONTROLLED SUBSTANCE BY A PERSON OR IN A MANNER NOT SPECIFICALLY AUTHORIZED BY LAW. ²
- CMS THE ILLEGAL DISTRIBUTION OR ABUSE OF PRESCRIPTION DRUGS OR THEIR USE FOR UNINTENDED PURPOSES. ³



Diversion By the Numbers

Opioids The most commonly diverted drugs in a healthcare setting⁴



Anesthesia

considered an

Psychotropic drug use

and addiction is now

occupational hazard⁴

1 in 10

Healthcare workers misuse drugs or alcohol during their career ¹

96%

Injectables Many healthcare workers who divert drugs start with injectables.¹





Machined Learning ⁵

96.3% Accuracy 95.9% Specificity 96.6% Sensitivity Diversion detected an average of 160 days faster

Personal Use

Drugs diversted from health care facilities are most commonly used to support an additional of either the HCW or an associate.

Of healthcare executives agree that diversion is occurring in US hospitals¹.



17%

Of healthcare

diversion was

facility¹.

executives agree that

occurring in in their

VICTIMS OF DIVERSION



Employee

Patient

Co-Workers

Health Care Systems

Former Nurse Sentenced for Drug Diversion from Boston-Area Hospital

BOSTON - A former nurse was sentenced yesterday in federal court today in Boston for diverting opioids from a Boston-area hospital.

Andrea Falzano, 39, of Winchester, was sentenced by U.S. District Court Judge Nathaniel M. Gorton to three months in prison and one year of supervised release. In August 2023, Falzano pleaded guilty to three counts of unlawfully obtaining controlled substances by fraud, deception, and subterfuge. MICHIGAN

Boulder DailyCamera.com Colorado, News, Business, Sports, Homes, Jobs, Cars and Information

Former Boulder Community Hospital nurse sentenced to 4 1/2 years for stealing meds

By Vanessa Miller, Camera staff writer

NEWS

Hospital tech who spread hep C via drug thefts gets 30 years

Ex-hospital worker gets 39 years for causing hepatitis C outbreak NEWS

McLaren Health and feds reach record \$7.75M settlement of drug allegations

In 2010, Mayo Clinic discovered a radiology technician in its Jacksonville, FL location had infected 5 patients with hepatitis C. One patient died

First individual lawsuit filed over hep-C-infected needles at **Rose Medical Center**

OUR JOURNEY



LIMITED

- FACILITY NOT ON BLIND COUNT BACK
- NO FORMAL REVIEW OF DISCREPANCIES
- Drug diversion coordinator RESPONSIBLE FOR ALL INVESTIGATION WORK

AWARENESS

- JOINT COMMISSION RECOMMENDATION TO ADDRESS DIVERSION
- LOCAL NEWS ARTICLE
- ESTABLISHED DRUG DIVERSION
 COMMITTEE

ACTION

- Machined Learning Software utilization
- ESTABLISHED POLICY AND PROCEDURES FOR ALL INVESTIGATIONS

BEST PRACTICE

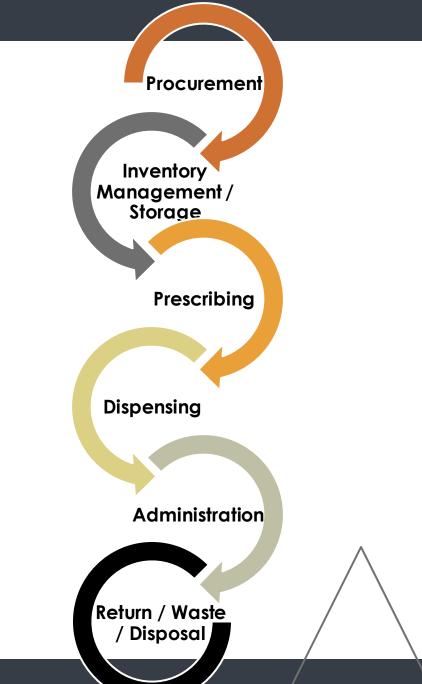
- EFFECTIVE AND RAPID RESOLUTION OF DISCREPANCIES WITH INTERDISCIPLINARY TEAM
- ROUTINE EDUCATION
- ROUTINE REPORTING

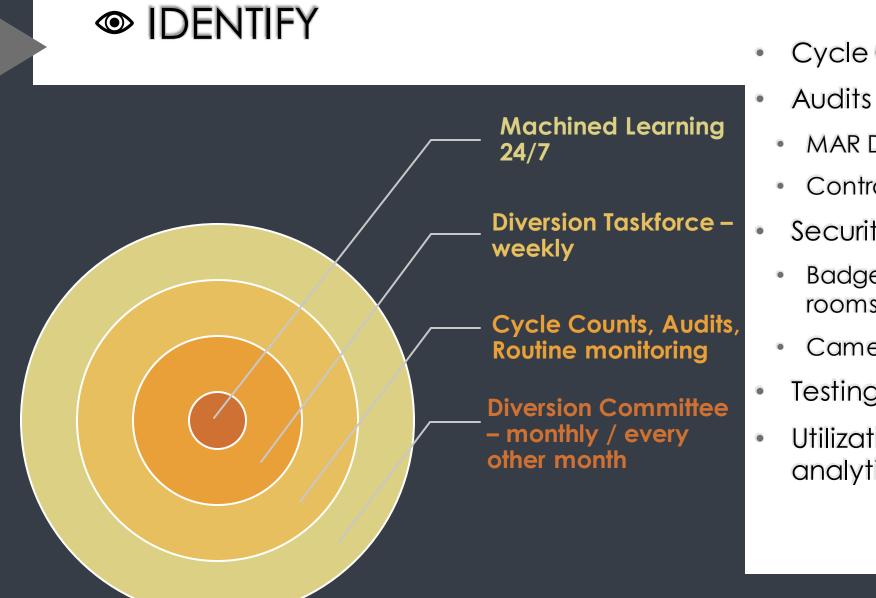
PILLARS OF A DIVERSION PROGRAM

\otimes	Prevent	
۲	Identify	
	Report	
	Respond	
Livit	Measure	

O PREVENT

- Establish A Diversion Program
- Education
- Communication
 - No news is not good news!
- Prevention At Every Step Of The Drug Life Cycle
 - Segregated ordering and receiving
 - Perpetual Inventories and Blind Count Backs
 - Don't forget your refrigerated storage
 - Limited access and delivery to authorize pharmacy staff
 - Closed loop restocking and reconciliation





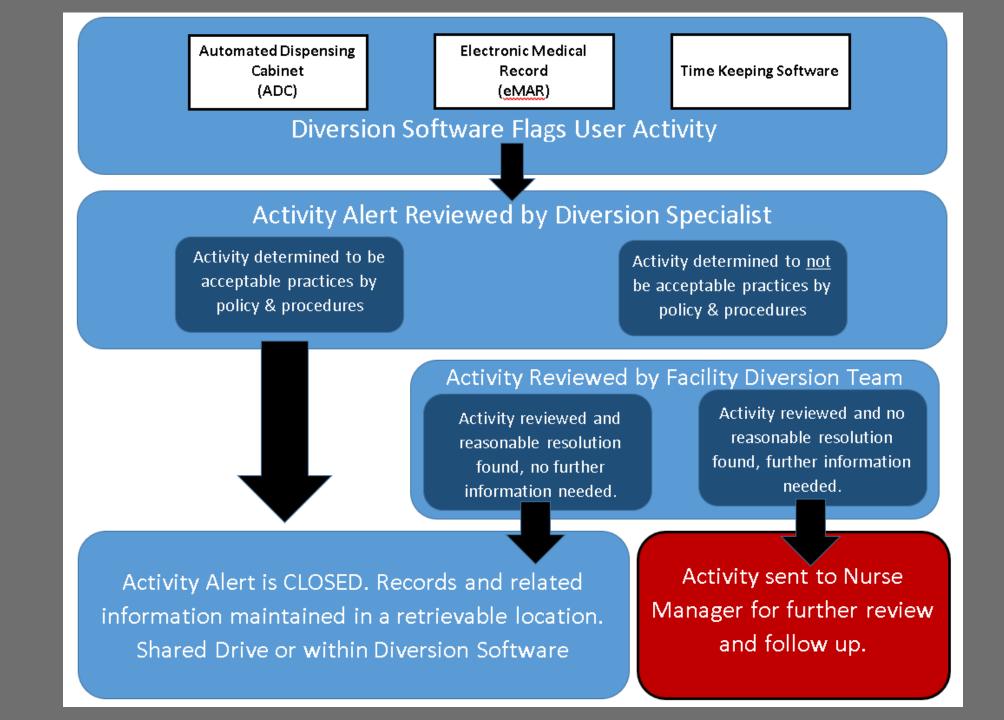
- Cycle Counts
 - MAR Data
 - Controlled substance access data
- Security
 - Badge swipe access to med rooms
 - Cameras
- Testing of Waste
- Utilization of machined learning analytics

REPORT

- Establish a confidential reporting platform
- Manage and report all discrepancies immediately upon discovery
 - BNE and DEA reportable at the suspicion of diversion not the confirmation
- Report to senior leadership

MM. 01.01.03 EP5

For hospitals that use joint commission accreditation for deemed status purposes: the hospital reports abuses and losses of controlled substances, in accordance with law and regulation, to the individual responsible for the pharmacy department or service and, as appropriate, to the chief executive.



RESPOND AND MEASURE

- Establish a standard process
 - Verify data
 - Analyze situation
 - Conduct interviews when applicable
 - Peer comparisons
- Establish a culture of recovery
- Identify areas for improvement

- Accountability
- Report out progress and findings to leadership committees
- Improve quality and patient safety
- Foster a culture of support and trust

Radiology Technician	ICU RN	Environmental Services	Pharmacy Technician Student	RN
 Self injected from syringes intended for patients, leaving a partial dose Refilled syringe with saline solution to maintain correct volume 	 RN pulled fentanyl from sedation bags into empty syringes RN documented infusion rates faster than pump was running Daughter of one patient with known history of drug use first suspected 	 Night employee cleaning the ORs emptied sharps containers to obtain residual fentanyl from vials Multiple exposures to contaminated sharps 	 Under the supervision of a technician was filling ADCs Following the blind count back student was seen on med room camera dropping an Oxycodone tablet to the floor then returning to the room to retrieve it 	 Nurse removed injectable PRN pain control for patient; administered to patient Simultaneously removed PO pain control to divert for personal use.

REFERENCES

1. ISMP. Controlled Substance Drug Diversion by Healthcare Workers as a Threat to Patient Safety – Part I. ISMP Medication Safety Alert! Featured Articles. Feb 2023. Available from https://www.ismp.org/resources/controlled-substance-drug-diversion-healthcare-workers-threat-patientsafety-part-i

2. N.Y. Pub. Health Law. Chapter 45. Article 33 (2024)

3. CMS. Drug Diversion Toolkit. (2024). Available at <u>https://www.cms.gov/files/document/drugdiversion022316pdf</u>

4. Berge KH, Dillon KR, Sikkink K, Taylor T. Diversion of Drugs within Health Care Facilities, a Multiple-Victim Crime: patterns of Diversion, Scope, Consequences, Detection and Prevention. Mayo Clinic Proceedings. July 2012;87(7):674-682. Available at https://www.mayoclinicproceedings.org/article/S0025-6196%2812%2900484-3/fulltext#:~:text=At%20the%20larger%20Mayo%20Clinic,diversion%20response%20teams%20(DDiRT).

5. ISMP. Controlled Substance Drug Diversion by Healthcare Workers as a Threat to Patient Safety – Part II. ISMP Medication Safety Alert! Featured Articles. March 2023. Available from https://www.ismp.org/resources/controlled-substance-drug-diversion-healthcare-workers-threat-patientsafety-part-ii

6. The Joint Commision, Division of Healthcare Improvement. Drug Diversion an Impaired Health care workers. Quick Safety. 2019; Issue 48. Available at <u>https://www.jointcommission.org/-/media/tjc/newsletters/quick_safety_drug_diversion_final2pdf.pdf</u>