Utilization of Radio Frequency IDentification (RFID) in Pharmacy

HALIFAX HEALTH

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Learning Objectives

- Identify regulatory standards and requirements for medication security

- Describe the importance of process evaluation in choosing the right technology

- Outline implementation strategies for process planning and team building needs

- Discuss post implementation evaluation, cost control and process improvement

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Regulatory Standards

Which regulatory bodies govern medication standards?

- The Joint Commission (JC)
- The Agency for Health Care Administration (AHCA)
- Center for Medicare and Medicaid Services (CMS)
- Department of Health
- State Boards of Pharmacy

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Medication Management Standards (MM)
The Joint Commission

- MM.01.01.01 – Plans Medication Processes including recalls
- MM.03.01.01 – Safely stores medications; includes removal of
    expired medications
- MM.03.01.03 – Safely manages emergency medications
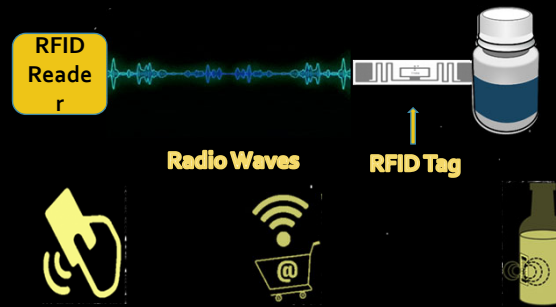- MM.05.01.09 – Medications are labeled

Which of these standards, in part, were listed in 2017 as being the top non-compliant Ambulatory Care Standards for Health Centers?

https://www.jointcommission.org/assets/1/18/2017_Most_Challenging_AHC_Standards_for_Health_Centers_Handout_1_2018.pdf

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What is RFID?
Importance of choosing the right technology

RFID Reader

Radio Waves

RFID Tag

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Implementation
Personnel and Planning

- Project Manager
- IT Staff
- Support Staff
- Supplies / Stock

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Target Areas for Improvement
Group Think

Code Carts
- Expired Medications

Anesthesia Carts
- Medication Location
- Security

Stroke Carts
- Capture
- Cost Saving Charges

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Code Cart
Evaluating Current Practice

OLD WAY

NEW WAY

98 x 44 Adult

+ 14 x 38 Peds

= 4,844

8

Code Cart *(continued)*
Evaluating Current Practice

Code Blue   Expired   Recalled Medications
                   Carts

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Code Cart Conversion

Evaluate
stock

- Order new
  stock

conversion

- Complete it
  cost/utilizati
  in groups

Team work

- Target high
  use floors
  team to tag
  first

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Code Cart Conversion

Policy Overhaul
- Pharmacist assign tags

Train Staff
- Technicians can dispatch
- Pharmacist

Location Tracking
- Audits
- Form Revisions

RECALL EXPIRED

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Anesthesia
Medication Security

The History of Anesthesiology

In what year did William T. G. Morton make history by being first in the world to publicly and successfully demonstrate the use of ether anesthesia for surgery?

"First Operation Under Ether" painting by Robert C. Hinckley

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Anesthesia Process Changes

Why?

- RFI by JC for Medications
- RFI by JC for Unlabeled Syringes
- Single Patient Kit
- Narcotic Kit
- Emergency kit

Medications Security Kits

Process

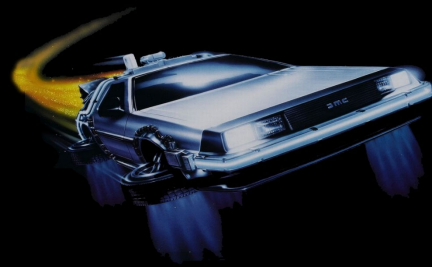- ADM

Anesthesia
Medication Security

In the end, other than to avoid another RFI, why bother?

340B

Future Plans

15

Brainstorming Future Uses

Stroke Carts

▪ Kit includes many non-medication items

Ambulatory Surgery Centers

▪ How do we recover and turn over used kits?

▪ Will this help capture additional revenue?

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Management & Process Improvement

Controlling Cost

- 503B Syringes
- Location Tracking
  - Backup Suppliers
- Code Cart Kitses

2 weeks supply

Inspectio n/Supplie s

Rework

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Learning Objectives Reviewed

- Name one regulatory body that establishes medication management standards?

- How many think RFID technology is right for you?

- Can this be done alone?

- To optimize the technology, does it require constant re-evaluation of the processes?

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