



# 2023-2024 Educational Webinar Series

## Recall Management Best Practices

March 21, 2024

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[shelly.leacock@va.gov](mailto:shelly.leacock@va.gov)

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# About the Moderator



**Martin Poulin, P.Eng., FCMBES**

Director, Biomedical Engineering  
Island Health, Victoria, BC, Canada

- Director of Biomedical Engineering for Island Health, Victoria, BC, on the west coast of Canada.
- 25+ years health technology management
- 5 years in the medical device development industry in Vancouver.
- Master of Engineering in Clinical Engineering from UBC
- Past President of CMBES

# Logistics

- ❖ All attendees have their microphones muted during the presentation.
- ❖ Questions to the panelists must be submitted via the “Q&A” feature in Zoom at any time. They will be addressed at the Q&A portion, slide#39.
- ❖ If there is any urgent issue, please use the “chat” feature to communicate with the host/moderator.
- ❖ Please remember to complete the webinar evaluation after attending. A link will be provided at the end, slide#40.

# Session Description

Review of Recall Management Best Practices to improve patient safety and ensure regulatory compliance. This session will discuss through effective recall response strategies and provides insights from healthcare organizations' recall management journey.

# About the Panelist



**Tom Toczylowski**  
Assistant Director, Alerts  
ECRI



Tom Toczylowski is the Assistant Director of the ECRI Alerts product, which provides ECRI members with recall and safety notifications to help safely manage medical devices, pharmaceuticals, and other medical products. A proud ECRI employee since 2008, Tom manages a group of writers, editors, and data coordinators who all contribute to ECRI's Alerts, recall management solutions, and inventory management products.

In addition to his many years of experience with medical device safety, recall management software solutions, and equipment data standardization, Tom has maintained a focus on the clinical laboratory and laboratory research. Prior to coming to ECRI, Tom spent several years working in molecular research laboratories at Fox Chase Cancer Center and Thomas Jefferson University.

# Best Practices for Recall Management

1. Have a Recall Policy with intention of enforcing it
2. Sponsorship of Recall Management within a hospital, no matter the size.
  1. No support leads to users not monitoring recalls
3. Primary tracker for each area - (SME) but also have a backup for when that person is on PTO or extended leave
4. Maintain up to date user list
  1. Notification sent to head of Recall program regarding employees that have left to maintain up to date list of users
  2. Review list of users anywhere from quarterly to yearly depending on frequency of turnover
5. Training manual with how to track recalls per system you are using
6. Regular reporting to ensure tracking
7. High Completion Rate

# Successful Recall Management Key Concepts

- How alerts information is obtained and shared
- How to address and monitor program compliance
- Internal and external documentation needs
- How to report to program participants



# Leadership and Sponsorship

- Challenges
  - Executive Sponsorship
  - Involvement of Patient Safety and/or Risk Management
  - Promoting Alerts Management as a Patient Safety Initiative
- Best Practices
  - Involvement of Patient Safety and/or Risk Management department
  - Promoting accountability through effective leadership
    - Sponsorship, Oversight, Awareness, Written Policy, Program Cohesion
  - Establish Alert Evaluation Team

# Collaboration

- Challenges
  - Promoting and maintaining participation
    - Overcoming resistance to involvement
    - Avoiding duplication of effort
- Best Practices
  - Cultivate a network of safety advocates
  - Sufficiently documented process
  - New employee onboarding process

# Alerts Acquisition and Review

- Challenges
  - Have the right information
    - Externally
    - Internally
  - Reliability of sources
    - Accuracy, Completeness, Timeliness
- Best Practices
  - Obtaining and sharing alerts information
  - Manage internal non-recall incidents
  - Preparatory measures when not following recommendations
  - Ensuring alerts are not missed

# Documentation and Reporting

- Challenges

- Complete, accessible record of how affected
  - Did this alert affect us?
  - Has it been resolved?
  - Who did what and when?

- Best Practices

- Maintaining complete and accessible documentation
  - Internal needs – i.e., Safety Committee
  - External needs – i.e., FDA, Joint Commission
- Update policies as needed
- Feedback to sponsors and participants

# Recall Management Measures of Success



# Reporting Routines

- Compliance
  - To ensure that users are addressing Alerts
  - ECRI Recommendation: 95% Completion Rate
  - Send to users on a monthly/quarterly basis
- Percent Tracked as Applicable
  - To ensure that users are addressing Alerts correctly
  - ECRI Recommendation: 5-7%
- List of Alerts Tracked as Applicable
  - To report to Safety/Environment of Care Committees

# About the Speaker



**Shelly Crisler Leacock, MS, CCE, PMP**

Biomedical Engineer

VHA Healthcare Technology Management



**SHELLY LEACOCK** is a Clinical Engineer with the Department of Veterans Affairs (VA) for over 18 years

- Provides direction and support regarding equipment management, alerts, recalls, incident response, continuing education, medical device safety, and more.

## AWARDS

- AAMI Young Professional Award (2014)
- AAMI & Becton Dickinson's Patient Safety Award (2019)

## HTM COMMUNITY ENGAGEMENT

- ACCE Board
- AAMI Healthcare Technology Leadership Council
- AAMI Equipment Management (EQ) Standards Committee
- NFPA 99 Medical Equipment Standards Committee
- Medical Device Servicing Community
- ECRI Health Devices Advisory Board

# Learning Objectives



1

Learn requirements of an alerts/recalls management process and how to apply them at your hospital or organization.

2

Learn the process that VHA HTM uses for the management of equipment alerts and recalls including the risk and resources evaluation process.

3

Understand the importance of documenting and tracking the corrective actions and their completion.





**1** Introductions and Background

**2** Intake

**3** Evaluate

**4** Mitigate

**5** Continuous Improvement

**6** Takeaways

**7** Discussion

A Closed-Loop Process for  
Remediation of Equipment  
Alerts/Recalls

# Agenda



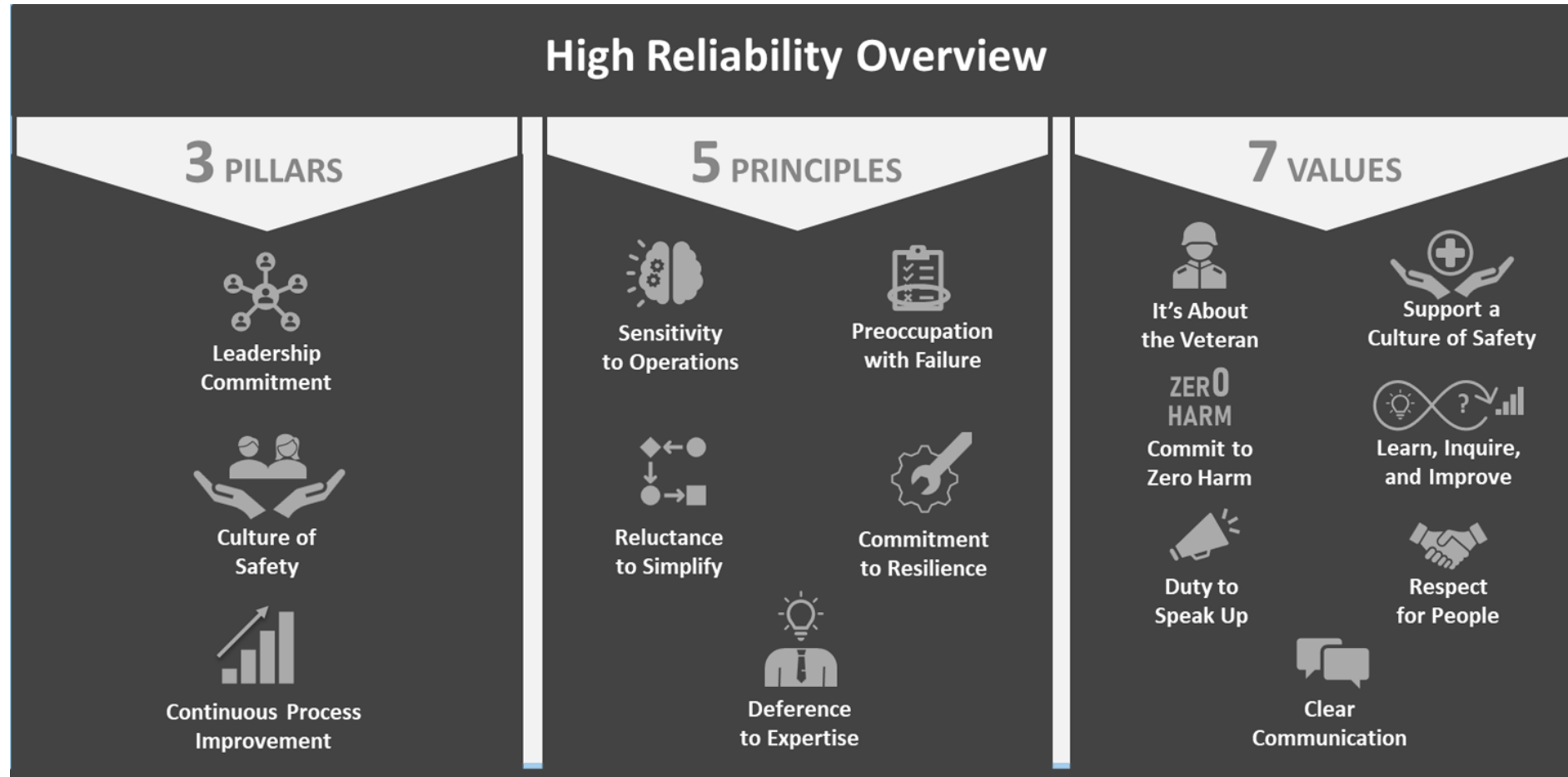
**Veterans Health Administration**  
Healthcare Technology Management

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[www.va.gov](https://www.va.gov)  
[www.usajobs.gov](https://www.usajobs.gov)  
[jobs.aami.org/jobs/](https://jobs.aami.org/jobs/)

# 1 | Introductions: VA HTM



# 1 | Background: High Reliability Organizations



# 1 | Background: Laws, Regulations, Standards

The VA Office of HTM provides policy oversight for the management of medical technology across VA consistent with relevant laws, regulations, industry standards, and accreditation requirements, including:



**Safe Medical Devices Act of 1990**  
Public Law 101-629



**Food and Drug Administration**  
21CFR 803, Medical Device Reporting



**Association for the Advancement of  
Medical Instrumentation**  
EQ56, Recommended Practice for a Medical  
Equipment Management Program



**The Joint Commission**  
Standard Environment of Care  
EC.02.04.01, EC.03.01.01, EC.04.01.01



**National Institute of Standards  
and Technology**



**Department of Veterans Affairs**  
VA policies and standards



**Veterans Health Administration**  
Healthcare Technology Management



# 1 | Background: Medical Equipment Alerts/Recalls

## ALERTS & RECALLS

A medical equipment recall is a method for correcting or removing medical devices from use that are in violation of laws administered by FDA or otherwise deemed defective or potentially harmful to patients

**CORRECTION** means repair, modification, adjustment, relabeling, destruction or inspection of a medical device without its physical removal

Alerts and recalls are **initiated** by manufacturers, FDA request or order, and healthcare systems

VA initiates and conducts internal alerts/recalls when a safety issue is found at one or more local facilities and there are risk mitigating actions that can be implemented



# 1 | Background: VHA Alerts/Recalls Management Components

## **ALERTS & RECALLS Management**

is a critical patient safety program with key components:

**Executive sponsorship**

**Written policies**

Comprehensive **sources of recalls**

**Programmatic collaboration** to limit duplicative efforts

Ability to **target facilities** that have the affected equipment

**Internal recalls**

**Specific actions** and **due dates**

**Closed-loop process**

Clear and consistent **communication channels**

**Training events**



# Process Overview: Intake, Evaluate, Mitigate



## 01 INTAKE

Receiving and documenting awareness of an alert or recall, checking applicability against inventory, and identifying mitigating activities

## 02 EVALUATE

Setting priorities and deadlines for mitigating actions through evaluation and scoring of associated risks and resource needs

## 03 MITIGATE

Communicating mitigating actions, performing them, and “closing the loop” by tracking, measuring, and reporting their completion



# 2 | Intake: Research Alerts & Recalls

## PROACTIVELY RESEARCH ALERTS & RECALLS

sources

### MANUFACTURERS & VENDORS

VA HTM departments forward all alerts/recalls to a central POC for processing

### PROFESSIONAL ORGANIZATIONS

VA maintains an ECRI Membership and searches postings by ECRI and FDA

### INTERNAL INCIDENTS

VA facilities report incidents to a central POC and VA-only recalls are created as needed



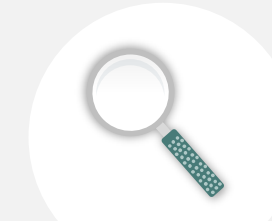
### INTAKE

#### Research Alerts & Recalls

Document Awareness

Check Inventory

Establish Mitigation Actions



### EVALUATE

Assess Severity

Determine Frequency

Rate Detectability

Score Clinical Impact

Measure Resources



### MITIGATE

Track Action Completion

Measure Compliance





# 2 | Intake: Document Awareness

## DOCUMENT ALL ALERTS/RECALLS

centrally within multi-hospital program

Document Date Received, Priority/Designation, Status

Discard duplicate issues

Confirm applicability to HTM scope of services

Notify other service lines if relevant



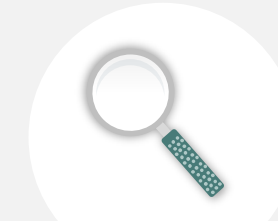
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# 2 | Intake: Check Inventory

## SEARCH EQUIPMENT INVENTORY FOR THE AFFECTED MODEL

### MULTI-HOSPITAL PROGRAMS

search inventory centrally

### STANDALONE FACILITIES

search inventory locally

VA HTM performs nationwide inventory searches and assigns and notifies **only the facilities that have the affected equipment**

**A complete and accurate inventory with standard naming conventions facilitates this process!**



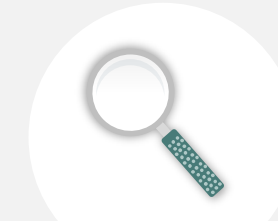
### INTAKE

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# 2 | Intake: Establish Mitigation Actions

## IDENTIFY ACTIONS

### WHO

Stakeholders responsible for completing actions e.g., HTM, manufacturer, vendor, clinical

### WHAT

Mitigating actions e.g., changes to PM procedures, EOC rounds, or other activities

### WHEN

Timelines to complete actions e.g., immediate vs. future

## FOR ADDITIONAL INFORMATION

Reach out to the manufacturer to understand scope of affected equipment, risk factors, mitigation strategies, and required actions – maintain list of manufacturer contacts

Communicate with other facilities to understand issues they may be experiencing, effectiveness of mitigating actions or questions they have



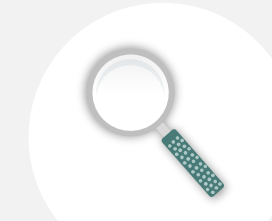
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**Establish Mitigation Actions**



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### MITIGATE

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# 3 | Evaluate: Assess Severity

## SEVERITY

the degree to which the failure causes harm (injury, illness, or death)

### 4 | Catastrophic

Failure can cause **death**, injury, or illness that **requires medical or surgical intervention to prevent permanent loss of function** in sensory, motor, physiologic or intellectual skills to patient, visitor, or staff.

### 3 | Major

Failure can cause **permanent lessening of bodily function** (including but not limited to sensory, motor, physiological or intellectual) and **disfigurement** to patients, visitors, and staff.

### 2 | Moderate

Failure can cause injury or illness that **requires medical or surgical intervention, requiring increased length of care** or loss time from work to patients, visitors, and staff.

### 1 | Minor

Failure causes **no injury or illness** and **requires no medical or surgical intervention** other than first aid treatment. Requires **no increased length of care** or loss time from work to patients, visitors, and staff.



INTAKE

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# 3 | Evaluate: Determine Frequency

## FREQUENCY

the likelihood the failure will occur in your hospital(s) over a defined time

### 4 | Frequent

Likely to occur immediately or within a short period (may happen at a VHA facility **several times in one month**).

### 3 | Occasional

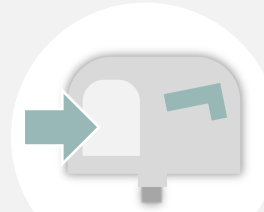
**Probably** will occur (may happen at a VHA facility **several times in three to four months**).

### 2 | Uncommon

**Possible** to occur (may happen at a VHA facility sometime **within the next six months**).

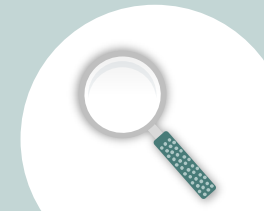
### 1 | Remote

**Unlikely** to occur at a VHA facility **within the next year**.



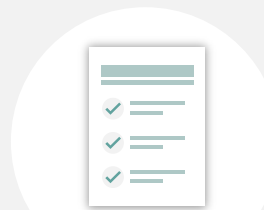
INTAKE

- Research Alerts & Recalls
- Document Awareness
- Check Inventory
- Establish Mitigation Actions



EVALUATE

- Assess Severity
- Determine Frequency**
- Rate Detectability
- Score Clinical Impact
- Measure Resources



MITIGATE

- Track Action Completion
- Measure Compliance



# 3 | Evaluate: Rate Detectability

## DETECTABILITY

the likelihood of the failure being recognized by users before the failure occurs

3 | Low

Vulnerability or defect **will not be identified or detected** by the user.

2 | Moderate

Vulnerability or defect **may be discovered prior to injury or use.**

1 | High

Vulnerability or defect **will be obvious** to the user and will be **discovered before the patient is harmed.**



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# 3 | Evaluate: Score Clinical Impact

## CLINICAL IMPACT

the degree to which the failure interrupts clinical operations or functions.

### 3 | High

Vulnerability or defect **interrupts all** clinical operations or functions associated with the affected medical device. Use of affected devices **may not continue and they must be removed from service. Alternative equipment is likely not available.**

### 2 | Moderate

Vulnerability or defect **interrupts some** clinical operations or functions associated with the affected medical device. Use of affected devices **may continue with deactivation of affected features or alternative risk reduction plan.**

### 1 | Low

Vulnerability or defect **does not interrupt** clinical operations or functions associated with the affected medical device. **Use of affected devices may continue.**



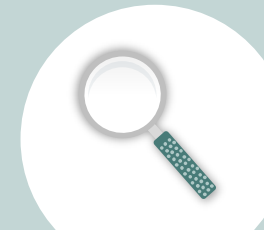
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EVALUATE

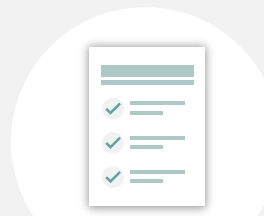
Assess Severity

Determine Frequency

Rate Detectability

**Score Clinical Impact**

Measure Resources



MITIGATE

Track Action Completion

Measure Compliance



# 3 | Evaluate: Risk Score

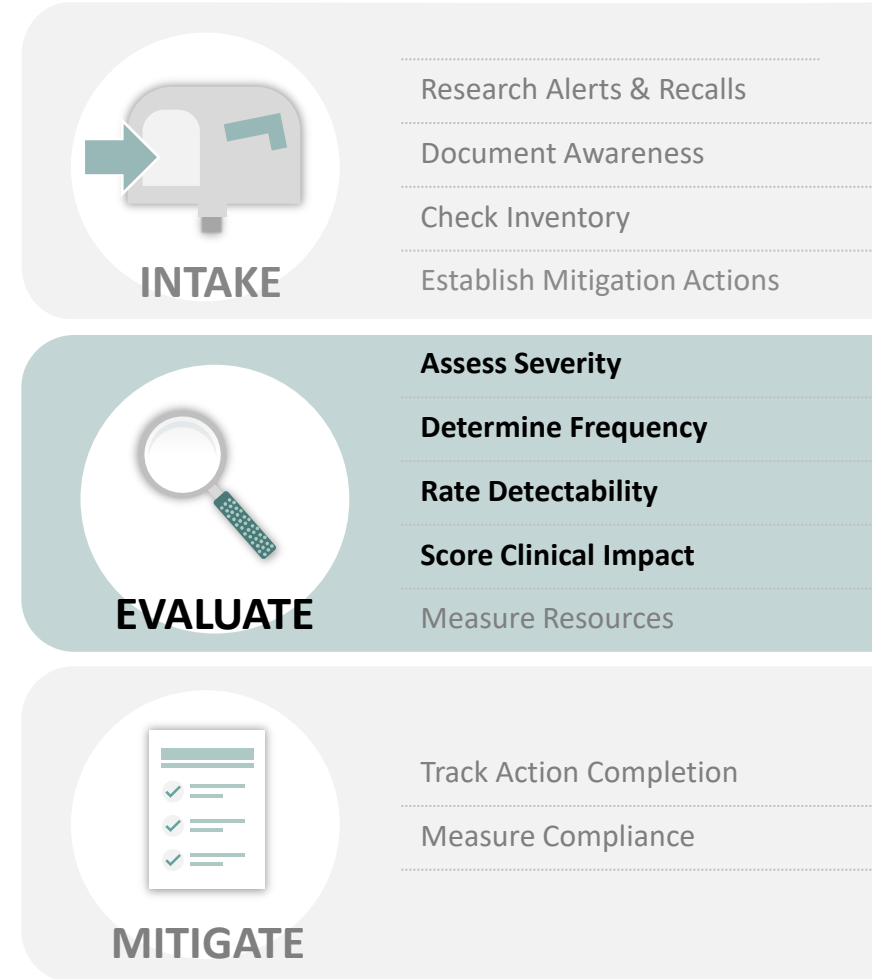
## PRIORITIZE HIGH RISK RECALLS AND ASSIGN SHORTER DUE DATES

Classified as **High Risk** if any of the following apply:

- Overall Risk Score of 32 or greater
- Severity Score of “4” (Catastrophic)
- Clinical Impact of “3” (High)
- FDA Class 1
- Resulted in death(s)

CLINICAL IMPACT VS. DETECTABILITY

		1	2	3	4	6	9
SEVERITY VS. FREQUENCY	1	1	2	3	4	6	9
	2	2	4	6	8	12	18
	3	3	6	9	12	18	27
	4	4	8	12	16	24	36
	6	6	12	18	24	36	54
	8	8	16	24	32	48	72
	9	9	18	27	36	54	81
12	12	24	36	48	72	108	
16	16	32	48	64	96	144	





# 3 | Evaluate: Measure Resources

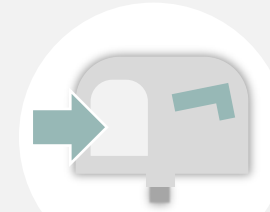
## RESOURCES SCORE

### CRITERIA

must meet 2 of 3 to be labeled as **HIGH RESOURCES**

1	<b>NUMBER OF AFFECTED UNITS</b>	<b>500+ devices affected</b>
2	<b>NUMBER OF AFFECTED FACILITIES</b>	<b>50+ sites affected</b>
3	<b>COMPLEXITY OF REMEDIATION</b>	<p><b>highly complex remediation</b>  <i>must meet 4+ subcriteria, requiring:</i></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Removal of device from service</li> <li><input type="checkbox"/> Clinical precautions before remediation</li> <li><input type="checkbox"/> Replacement/loaner before remediation</li> <li><input type="checkbox"/> Third-party service on site</li> <li><input type="checkbox"/> Return of the device to the vendor</li> <li><input type="checkbox"/> Parts/replacements</li> <li><input type="checkbox"/> Travel to other hospitals/clinics</li> </ul>

**HIGH RESOURCES** recalls are assigned longer due dates



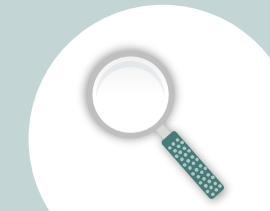
**INTAKE**

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Document Awareness

Check Inventory

Establish Mitigation Actions



**EVALUATE**

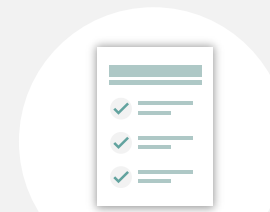
Assess Severity

Determine Frequency

Rate Detectability

Score Clinical Impact

**Measure Resources**



**MITIGATE**

Track Action Completion

Measure Compliance



# 4 | Mitigate: Track Action Completion

## DOCUMENT ACTION COMPLETION

Establish a process for assigning alerts/recall records as open/closed

### BENEFITS

Closes the Loop!  
*confirms mitigation of risk*

Supports measurement of compliance  
*must record date of action completion*

Informs evaluations of future alerts and recalls  
*High Reliability Organization!*



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**Track Action Completion**

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# 4 | Mitigate: Measure Compliance

## MEASURE COMPLETION OF ACTIONS

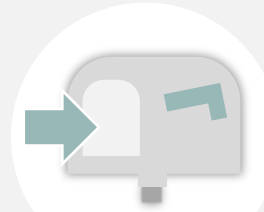
### Final Action Compliance

percent complete by the Due Date

$$\frac{\# \text{ of Actions where the Final Action was completed and verified by the Due Date}}{\# \text{ of Actions where the Final Action was Due in a given month or quarter}}$$

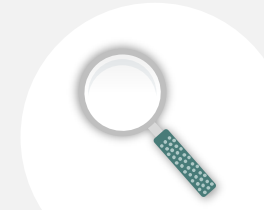
### Open Overdue Recalls

number of open and overdue Final Actions



**INTAKE**

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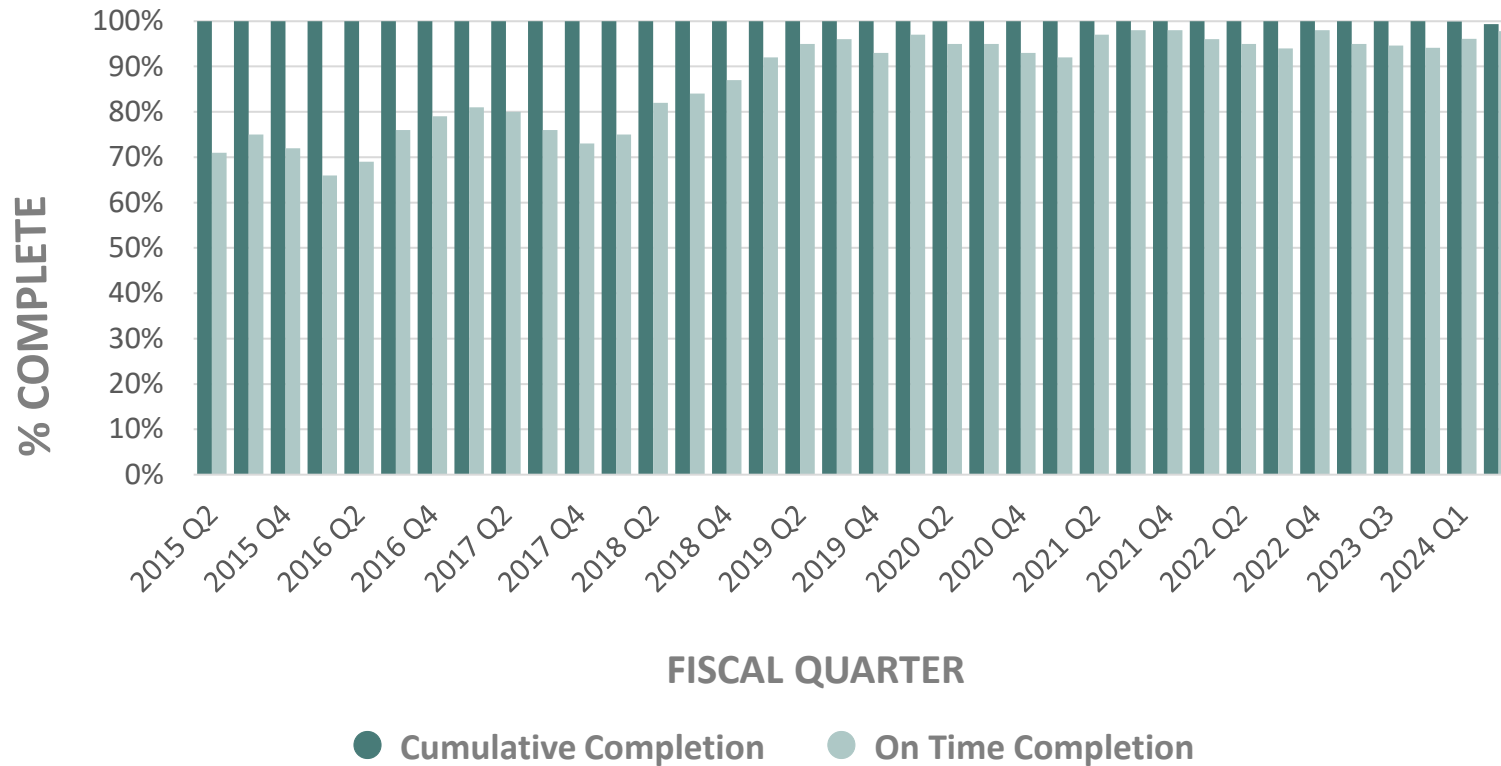
**MITIGATE**


- Track Action Completion
- Measure Compliance**



# 4 | Mitigate: Measure Compliance

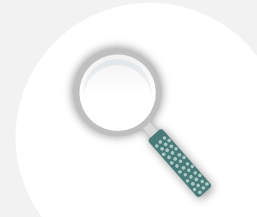
## MEDICAL DEVICE RECALL COMPLETION BY QUARTER






**INTAKE**

- 
- Research Alerts & Recalls
- 
- Document Awareness
- 
- Check Inventory
- 
- Establish Mitigation Actions



**EVALUATE**

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**MITIGATE**

- 
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- 
- Measure Compliance**
-



# 5 | Continuous Improvement



## IMPROVE REPORTS

Improve inventory reporting to better target affected sites and develop and provide more real-time reporting for better performance monitoring



## IMPLEMENT ENTERPRISE SYSTEMS

Deploy and utilize an enterprise work order system to issue, track, and measure remediating actions



## SHARE BEST PRACTICES

Engage with VA HTM Community and larger industry community to share and learn best practices



# 6 | Takeaways



1

## Establish a program

tailor components of an alerts and recalls management program to create standardized policies and functions

2

## Implement a process

span phases of Intake, Evaluate, and Mitigate to manage risks, prioritize resources, and monitor performance

3

## Close the loop

document and track corrective actions associated with alerts and recalls to ensure their completion



# Questions / Comments / Concerns



Please enter your questions/comments/concerns to both speakers in the Zoom Q&A window

# Thank you

Please complete the online evaluation form at <https://www.surveymonkey.com/r/2024-session7>

or scan the QR code



Stay tuned for the April 11<sup>th</sup> ACCE education webinar



ACCE  
2023-2024 ACCE Educational Webinar Series  
**Medical Equipment Planning for Healthcare Organizations**  
Thursday, April 11, 2024, 12:00 pm - 1:00 pm (EDT)

FREE for MEMBERS

Register today and join this session to help optimize allocation and get tips on creating operational efficiencies in your Medical Equipment Planning efforts.

**Dean Skillcorn**  
Medical Imaging Service Manager, Clinical Engineering  
St. Luke's Health System

**Carol Davis-Smith**  
President  
Carol Davis-Smith & Associates, LLC

