

# MEDITECH

## Surveillance Collaborative

May 8, 2025



# Key Points

- ➔ Frederick's SIRT Surveillance Utilization Report Statistics
- ➔ Surveillance Public Service Announcement
- ➔ Development items related to query response time
- ➔ Troubleshooting Tips

# MEDITECH

## VISION

Advance digital health record technology so every patient and their providers can access their health information and participate in their care. We believe every healthcare organization can better serve its community with open access to electronic health records, clinical knowledge, and data.

## MISSION

Enable global healthcare organizations to deliver safe, efficient, and impactful care to the communities they serve through our comprehensive software, services, and technology

## VALUES

Integrity  
Investing in the future:  
people, process, and technology  
Sustainability and focus  
Fiscal responsibility  
Ensuring a positive long-term  
impact on customers, staff,  
and the industry

**Our solutions drive organizations to improve efficiency; guide clinical, financial, and operational decisions; and connect clinicians across a dynamic healthcare ecosystem in support of holistic, person-centered care.**

# Surveillance Collaboration

## Our Mission

To incorporate **Surveillance** throughout healthcare organizations. To **enhance safety practices and access to information**. The Surveillance Collaborative Forum will serve as subject matter experts and provide guidance, recommendations, and conceptualization on Surveillance Best Practices through the use of MEDITECH software and provide feedback for the future design of the Surveillance application.



## Our MEDITECH Members

- Daniel Seltzer, Quality & Toolkits
- Gregory Ayers, HCA Surveillance
- Brett Muirhead, MaaS Implementation
- Jennifer Ford, Strategy Division
- Jonathan Hallman, Client Services
- Jonathon Junker, Client Services
- Ilana Gutierrez, Implementation
- Israel Perez, EMT Client Services
- Scott Gooch, Development
- Arthur Keown, Development
- Paul Kane, Development
- Larissa DeGregorio, Client Services
- Dr. Marsha Fearing, MD, MPH, MMSc., Physician Specialist



# Our Client Members



*The mark of personal care™*



**Golden  
Valley  
Memorial**  
HEALTHCARE



FRANCES MAHON  
DEACONESS HOSPITAL



# MEDITECH EXPANSE

## Frederick Health

2025  
Surveillance  
Measurable  
Insights



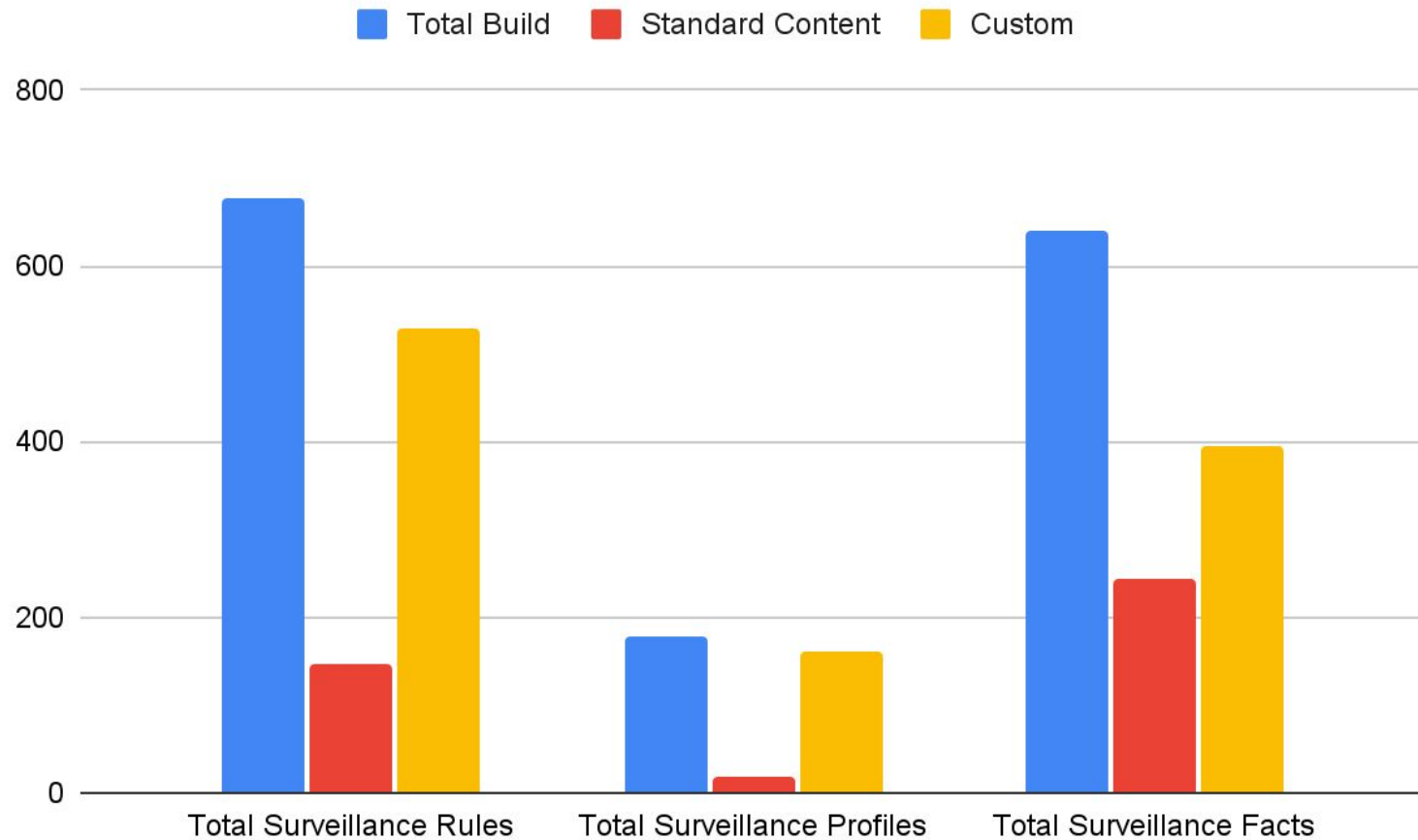
The background of the slide is a dark blue, moody sky filled with textured, swirling clouds. The lighting is dim, with a slightly brighter area in the upper center where the clouds are less dense, creating a sense of depth and atmosphere.

# Surveillance Build Graphs

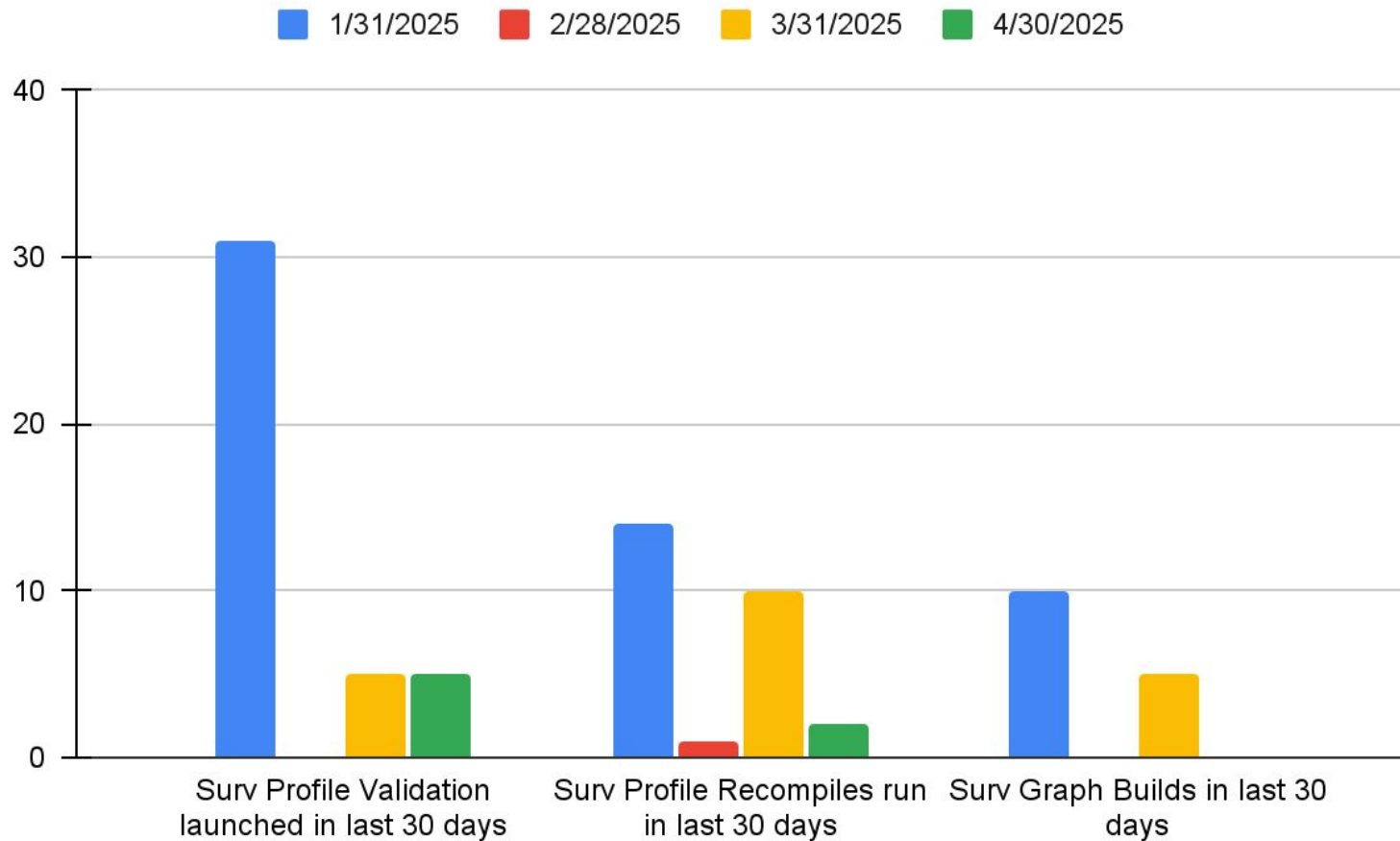


# Profile Build

April 2025



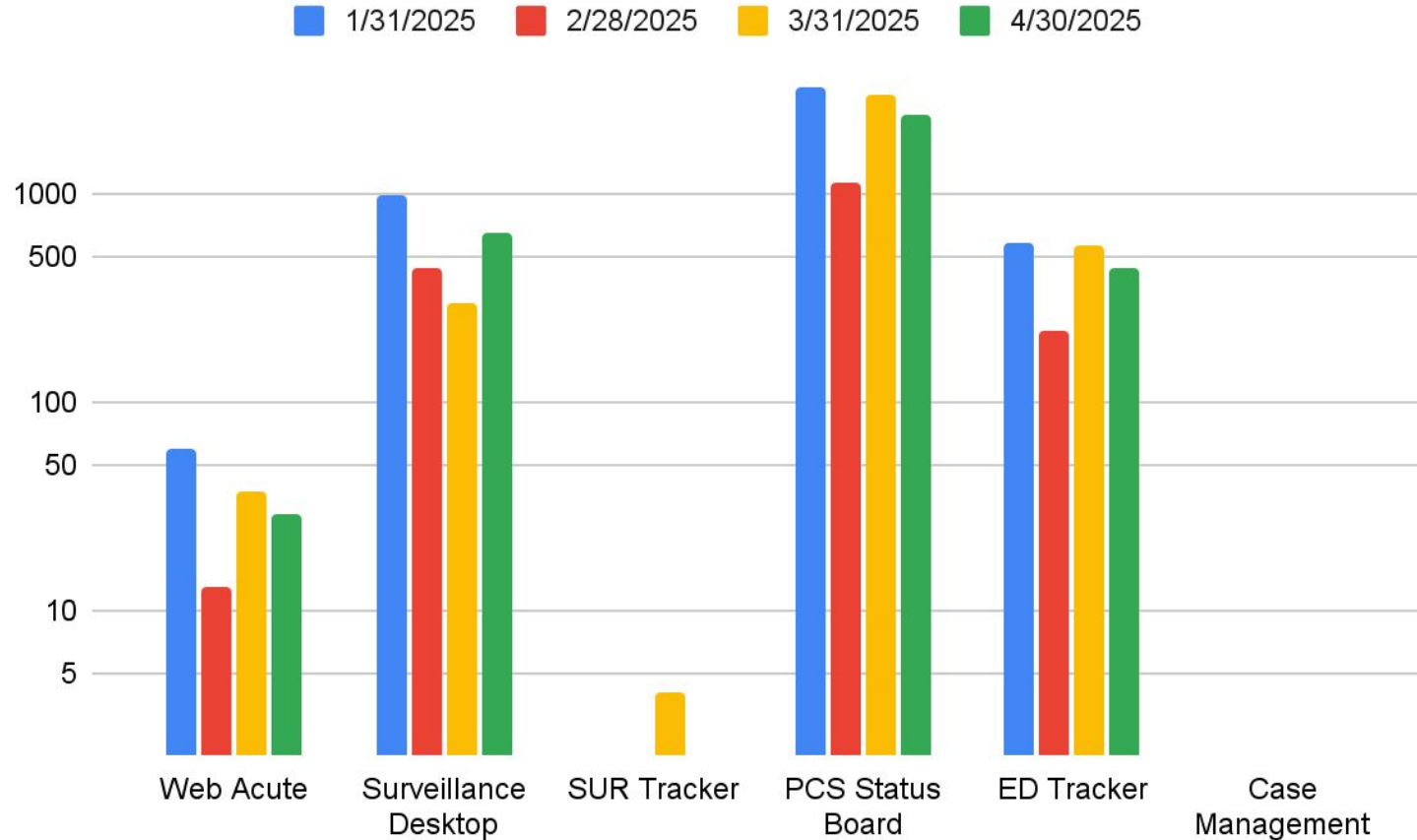
# Surveillance Build Routines: Validation, Recompile, and Build



The background of the slide is a dark blue, moody sky filled with textured, swirling clouds. The lighting is dim, with a slightly brighter area in the upper center where the clouds are less dense, creating a sense of depth and atmosphere.

# Front End Usage

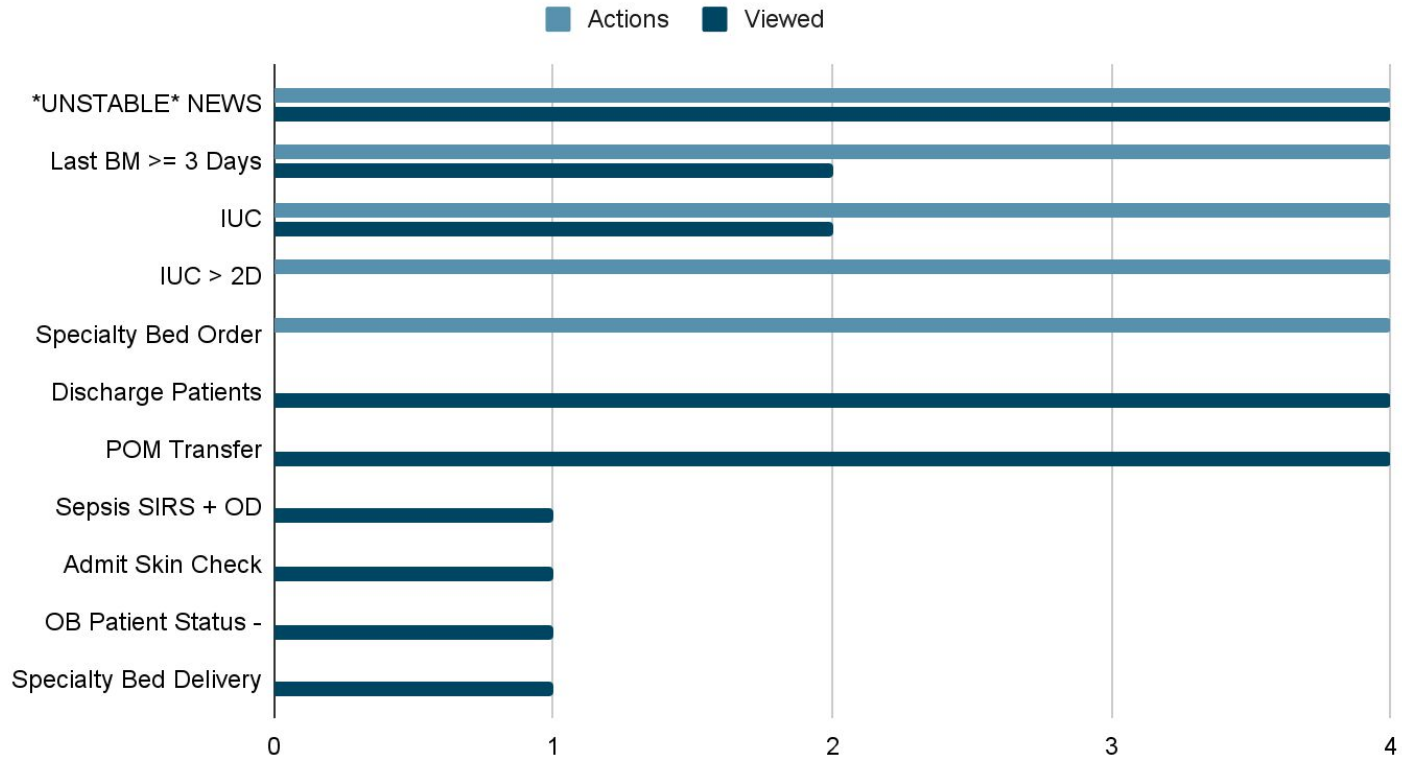
# Surveillance Usage





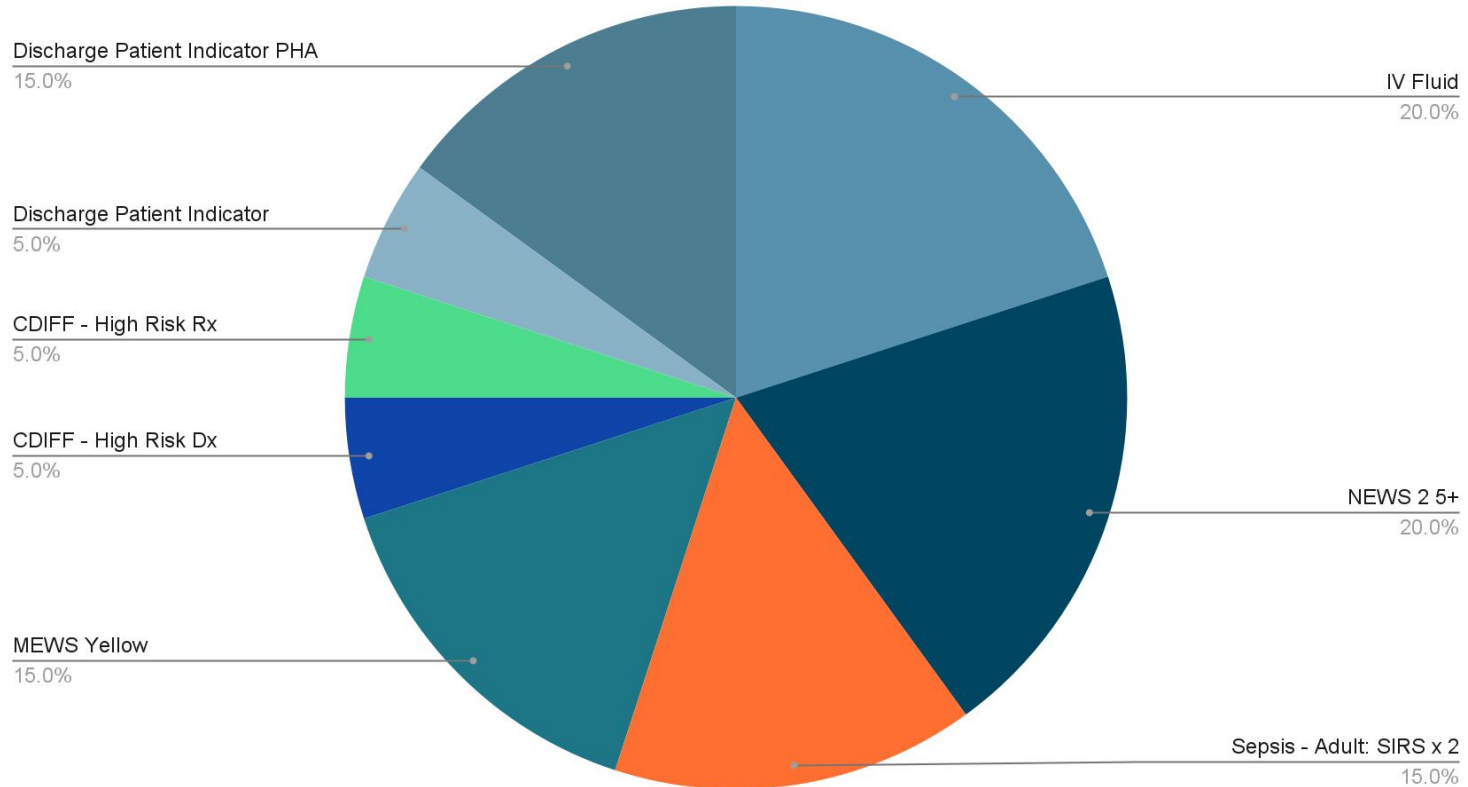
# Surveillance Usage Actions/Viewed 2025

## 2025 Viewed/Actions



# Surveillance Usage Most Qualified 2025

## Points scored



The background of the slide is a dark, moody sky filled with heavy, dark blue and black clouds. A lighter, pale blue area is visible in the upper center, where the clouds are thinner, suggesting a break in the overcast. The overall tone is somber and mysterious.

# Surveillance PSA

# MEDITECH Surveillance PSA



## Inactivating Profiles that are not in use



- ❖ Test Profiles
- ❖ Profiles with No Traction
- ❖ Standard Content Not in Use



# MEDITECH Surveillance PSA



## Add Descriptions to Profiles

MEDITECH

E

Return To

Rules Engine Rule Dictionary (BRO LIVE)

SEVSEPSIS.QUAL-V2 - Severe Sepsis Qualify Rule (version 2)

Last Edit:

MainRuleEmbedded In

Rule

Mnemonic	SEVSEPSIS.QUAL-V2
Active	Yes
Name	Severe Sepsis Qualify Rule (version 2)
Category	Surveillance
Description	<div><div>1. Heart Rate &gt; 90 2. Resp Rate &gt; 20 3. Temp &lt; 96.8 or &gt; 100.9 4. WBC &gt; 12 or &lt; 4, or Bands &gt; 10%</div><div>A. Systolic BP &lt; 90 or decrease of 40 B. MAP &lt; 65 C. Supplemental O2 bipap/vent D. Lactic Acid &gt; 2 E. Bilirubin &gt; 2 F. Creatinine &gt; 2</div><div>A 1,2; 1,3; 1,4; 2,3; 2,4; 3,4 B 1,2; 1,3; 1,4; 2,3; 2,4; 3,4 C 1,2; 1,3; 1,4; 2,3; 2,4; 3,4 D 1,2; 1,3; 1,4; 2,3; 2,4; 3,4 E 1,2; 1,3; 1,4; 2,3; 2,4; 3,4 F 1,2; 1,3; 1,4; 2,3; 2,4; 3,4</div></div>

The background of the image is a dark, moody sky filled with heavy, dark blue and black clouds. A lighter, pale blue area is visible in the upper center, where the clouds are thinner, suggesting a break in the overcast. The overall tone is somber and atmospheric.

Development

# Query Date/Time Field **MEDITECH Surveillance**



## IDEA-25548



Add Query file date/time to Surveillance  
Fact Dictionary

# Looking Back with **MEDITECH** Surveillance



**CM-21355**

**Expanse 2.1.63**

**Expanse 2.2.51**



Introduce  
enhancements for  
Surveillance Rules  
Engine evaluation of  
elapsed time data

SV.SEP HR - Sepsis: Heart Rate > 90 Last Edit: 03/12/2018 13:35

Main Fact Embedded In

* Item	MIS Cust Def Query
* Query Record	Account Query
* Query	Pulse Rate
* Operator	Greater Than
Modifier	
Sub Modifier	

Look Back 6H

Cumulative

Value 90

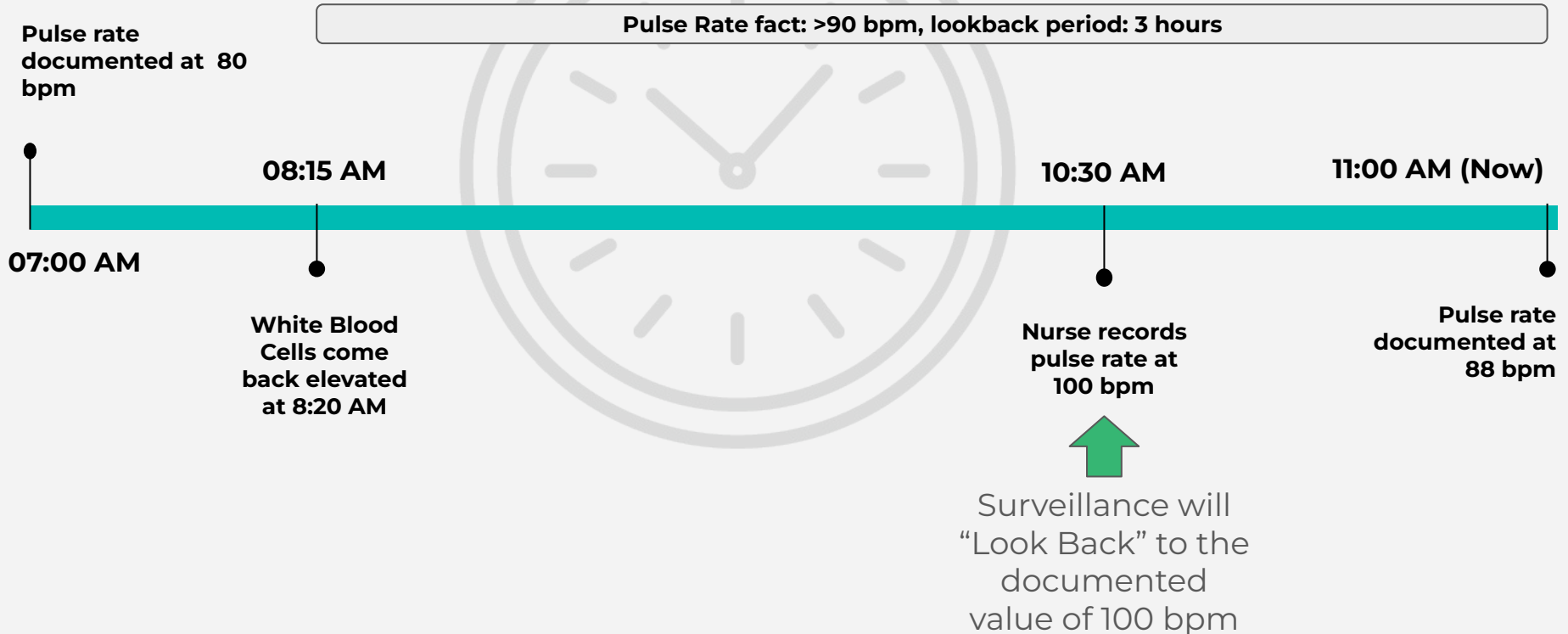
History Cancel Save

View New Edit Report



# Example

## SIRS Criteria



The background of the slide is a dark, moody sky filled with heavy, dark blue and black clouds. A lighter, pale blue area is visible in the upper center, where the clouds are thinner, suggesting a break in the overcast. The overall tone is somber and atmospheric.

# Troubleshooting Tips

# Rules Engine Build **MEDITECH Surveillance**



## CM-17912

Expanse 2.2.38

Expanse 2.1.50



### Rules Engine Build Error messages

# Rules Engine Build

Category   
From Date   
Thru Date

Start Date	End Date	Error
04/02/25 14:43	04/02/25 14:43	
04/02/25 15:03	04/02/25 15:03	
04/03/25 10:28	04/03/25 10:28	
04/16/25 11:49		One or more rules are not well-formed.
04/24/25 11:18		One or more rules are not well-formed.
04/24/25 11:18		One or more rules are not well-formed.
04/24/25 11:20		One or more rules are not well-formed.
04/24/25 11:20		One or more rules are not well-formed.
04/24/25 11:21	04/24/25 11:21	
04/24/25 12:11	04/24/25 12:11	
04/24/25 13:37	04/24/25 13:37	

## Error Detail

One or more rules are not well-formed.  
- ML OM Rule

# Rules Engine Build **MEDITECH Surveillance**



## CM-24260

Expanse 2.1.67

Expanse 2.2.55



Create a mechanism to automatically rebuild the Rules Engine Graph when Data Def changes are made to the graph building code

# Rules Engine Validation/Profile Validation **MEDITECH** **Surveillance**



## CM-21935

Expanse 2.2.49

Expanse 2.1.61



Enhance Rule Validation and Surveillance  
Profile Validation Screens to show Pass/Fail  
Icons for each Component Type


# Rules Engine Validation/Profile Validation **MEDITECH**



## Surveillance

SV.CLIN >2D - Central Line IV > 2 Days

Patient ▼	Evaluation
Arsenault,Julie F00000000109	✗ Not Qualified


### + Qualifying Rule




Component Type	Component 	Component Group Number
Fact	Central Blood Line Insertion Date: >2D Elapsed	
Operator	And	
Fact	Central Blood Line IV Type	

Criteria ▼
 Date of IV Line Insertion [REG Account]
 IV Catheter Type [REG Account]

Value

### + Removal Rule

Component Type	Component 	Component Group Number
Fact	Date IV Line Discontinued: exists	
Operator	And	
Fact	Time IV Line Discontinued: exists	
Operator	And	
Fact	Central Blood Line IV Type	

Criteria ▼
 Date IV Line Discontinued [REG Account]
 IV Catheter Type [REG Account]
 Time IV Line Discontinued [REG Account]

Value

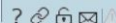
Import Prior Criteria

Criteria

Results

Compile

Cancel





# Surveillance Profile Validation

## SV.SEPSIS ADULT - Possible Sepsis

Patient: Lorenzo, Jonathan MG0000013284 Evaluation: ✗ Not Qualified

### + Qualifying Rule

Component Type	Component	Component Group Number
<span style="color: green;">✔</span> Rule	ADM/REG and IN/OBS/ED	
<span style="color: green;">✔</span> Operator	And	
<span style="color: green;">✔</span> Open Bracket	(	
<span style="color: green;">✔</span> Fact	Sepsis Manual Screen (query)	
<span style="color: green;">✔</span> Operator	Or	
<span style="color: green;">✔</span> Fact	Sepsis: Suspected or Documented Infection	
<span style="color: green;">✔</span> Close Bracket	)	
<span style="color: red;">✗</span> Operator	And	
<span style="color: red;">✗</span> Open Bracket	(	
<span style="color: red;">✗</span> Rule	Sepsis Toolkit: Temp and Pulse	
<span style="color: red;">✗</span> Operator	Or	
<span style="color: red;">✗</span> Rule	Sepsis Toolkit: Temp and Resp/PaCO2	

Criteria
<span style="color: blue;">i</span> Bedside PaCO2 [REG Account]
<span style="color: blue;">i</span> EMR Item Data Item
<span style="color: blue;">i</span> EMR Result
<span style="color: blue;">i</span> Pulse Rate [Account Query]
<span style="color: blue;">i</span> REG Reg Status
<span style="color: blue;">i</span> REG Reg Type Category
<span style="color: blue;">i</span> Respiratory Rate [Account Query]
<span style="color: blue;">i</span> Sepsis Infection Criteria Present [Account Query]

Value

### + Removal Rule

Import Prior Criteria

Criteria

Results

Compile

Cancel

# Rules Engine Validation

SV.SEPSIS.TKT.MASTER - Sepsis Toolkit: Master Qualifying Rule

Patient **Lorenzo,Jonathan** MG0000013284  
Evaluation **Not Met**

+ Rule

Component Type	Component	Component Group Number
✓ Rule	ADM/REG and IN/OBS/ED	
✓ Operator	And	
✓ Open Bracket	(	
✓ Fact	Sepsis Manual Screen (query)	
✓ Operator	Or	
✓ Fact	Sepsis: Suspected or Documented Infection	
✓ Close Bracket	)	
✗ Operator	And	
✗ Open Bracket	(	
✗ Rule	Sepsis Toolkit: Temp and Pulse	
✗ Operator	Or	
✗ Rule	Sepsis Toolkit: Temp and Resp/PaCO2	

Criteria

- Bedside PaCO2 [REG Account]
- EMR Item Data Item
- EMR Result
- Pulse Rate [Account Query]
- REG Reg Status
- REG Reg Type Category
- Respiratory Rate [Account Query]
- Sepsis Infection Criteria Present [Account Query]

Value

Import Prior Criteria

Criteria Result

Compile

Cancel



## Topic: Custom Profiles



Are you using any profiles not created by MEDITECH that you find particularly useful? Do you care to share what they are?



**Frank Breugem**  
RN, Clinical Analyst  
NMC Health

## Topic: Geometric Length of Stay

“ Geometric Length of Stay is something our leadership has requested surveillance for even through the GMLOS data comes from our separate vendor, 3M. Do any other sites have similar requests for GMLOS? Have they found a way around this barrier? ”



**Christopher Mitchell**  
Senior Clinical Systems Analyst  
Signature Healthcare

## Topic: Standard Content



If we inactivate all the standard content profiles we don't use, will the system process transactions faster and make patients qualify in more real time since all those rules are no longer part of the engine?



**Kayla Johnson**

Clinical Analyst  
HCA Healthcare

## Topic: Look Back



Would anyone like to share some effective use cases they've deployed with the new Lookback or Cumulative features?



**Kayla Johnson**

Clinical Analyst  
HCA Healthcare

**Thank You!**





# Resources

Customer Showcase Recordings and Resources:

<https://customer.meditech.com/en/d/prwqm/pages/qmebfesurvshowcase.htm>

Surveillance Collaborative Page:

[https://home.meditech.com/en/d/customercollaboration/pages/surveillanc  
ecollaborative.htm](https://home.meditech.com/en/d/customercollaboration/pages/surveillanc<br/>ecollaborative.htm)

Surveillance Troubleshooting:

[https://customer.meditech.com/en/d/prwqm/otherfiles/qrmeiassurveillance  
troubleshootingguidelines.pdf](https://customer.meditech.com/en/d/prwqm/otherfiles/qrmeiassurveillance<br/>troubleshootingguidelines.pdf)