# Building a Sustainable, Evidence-Based Mortality Review Program

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## **Learning Objectives**

- Discuss an intuitive and sustainable evidence-based mortality review process.
- Explain how to leverage a strategic focus to prioritize quality improvement work.



501c 3 not-for-profit

\$2.6 billion in annual revenue

Headquartered in Roanoke, Virginia

8 hospitals + 1 Children's Hospital

High Performing in 15 Procedures/Conditions and 1 Adult Specialty – US News & World Report

Virginia Tech Carilion School of Medicine and Fralin Biomedical Research Institute at VTC

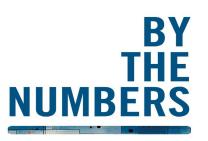
**Radford University Carilion** 

Serving 1 million Virginians across about 18 counties and 6 cities in western Virginia and southern West Virginia

**DYAD Leadership** 

Carilion Clinic provides care for more than one million people and serves central and southwestern Virginia with nine hospitals, 295 practice sites, and over 86 specialties.





1,041 licensed heds

60 neonatal ICU beds

14,980 employees

7,400 square-mile service area

144,062 urgent care visits

54,201 surgeries

48,160 hospital admissions

1,798,629 outpatient visits

174,201 Emergency Department visits















COMMITMENT









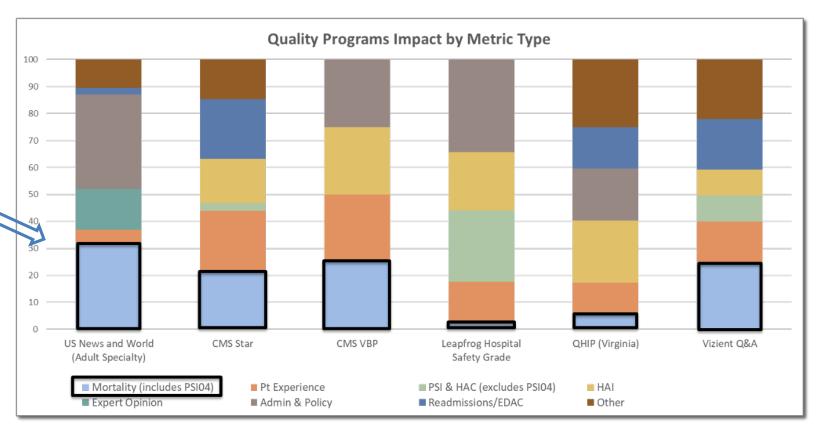




#### Why Develop a Mortality Program?

#### Patient Outcomes

- Identify system process opportunities that improve overall patient outcomes
- Significant impact on multiple publicly reported programs
- For Carilion Clinic, benchmarking with like institutions demonstrated clear need to improve our mortality performance and need for new processes, structure, and team to facilitate the improvement





#### **Carilion Clinic's Mortality Program**

Would you have wanted your loved one to receive the same care?

**Guiding Principles** 

Safety learning system

Deference to Expertise

Registry model

Multidisciplinary

Enterprise wide

#### **FY25 Areas of Focus**

Expansion of inpatient hospice admission status (GIP)

Documentation and coding for risk adjustment

Early sepsis recognition and intervention in the Emergency Department

Processes to enhance management of transfer requests

Nurse review process



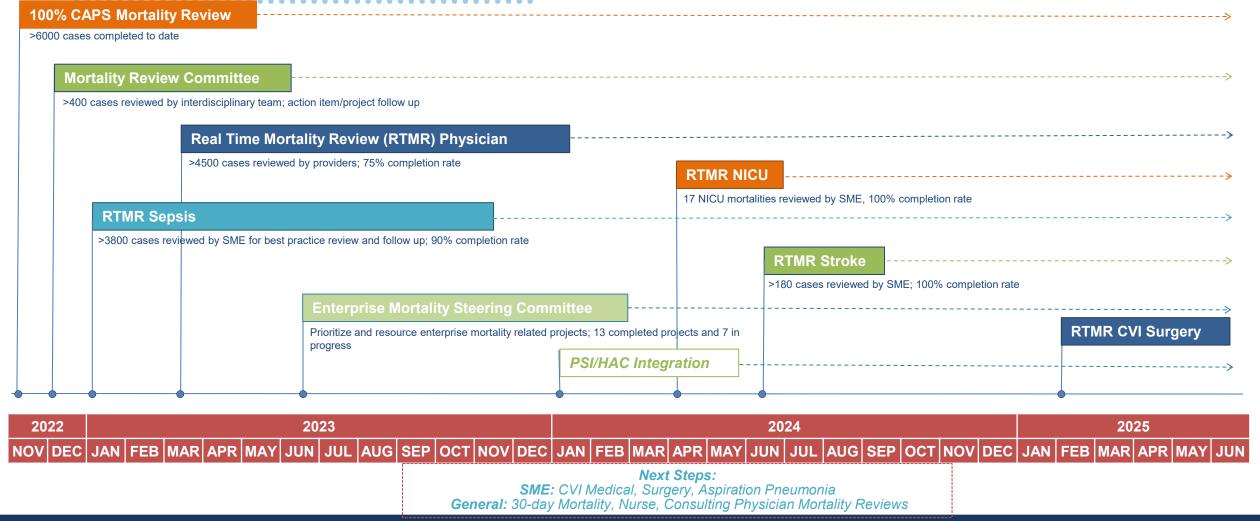
<sup>\*</sup>Adapted from Mayo Clinic Model

#### **Set the Standard**

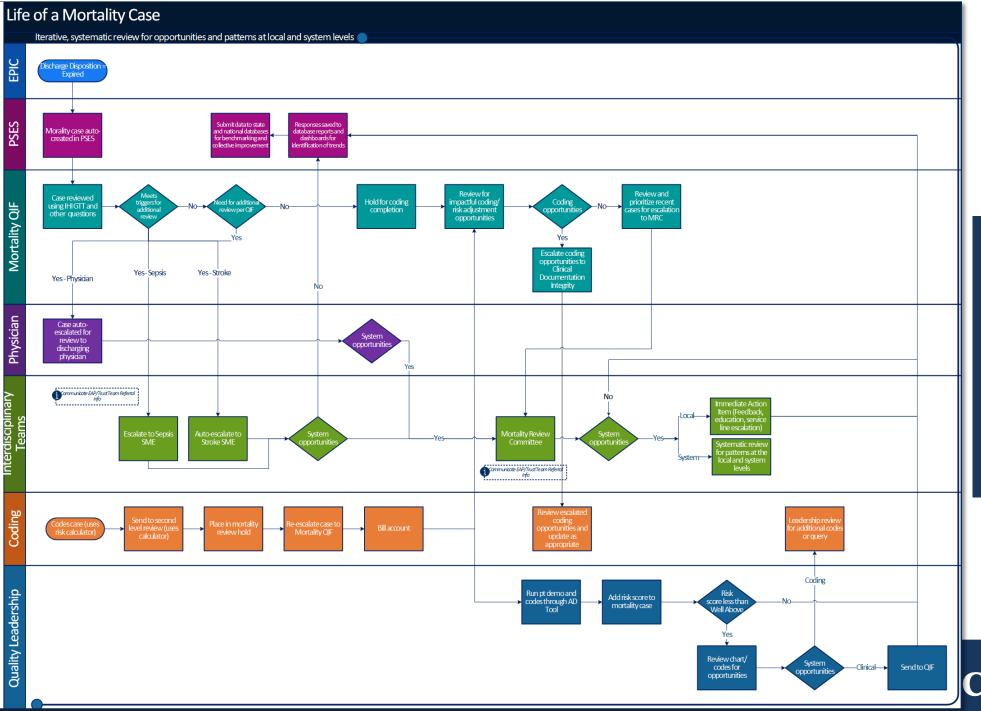
- Leverage portfolio management system to prioritize projects and allocate resources to support
- Integrate quality plan and scorecard metrics to support sustainability
  - Include metrics in risk/benefit scoring and prioritization matrix
- Develop steering committee comprised of executives and senior management throughout the organization to ensure strategic alignment
  - Set standard for expectations of mortality improvement
  - Champion outcomes within their functional span of control



#### **Mortality Program Development**







Mortality
Review
Process:
Automated
Collaborative
Iterative



# "It Takes a Village"

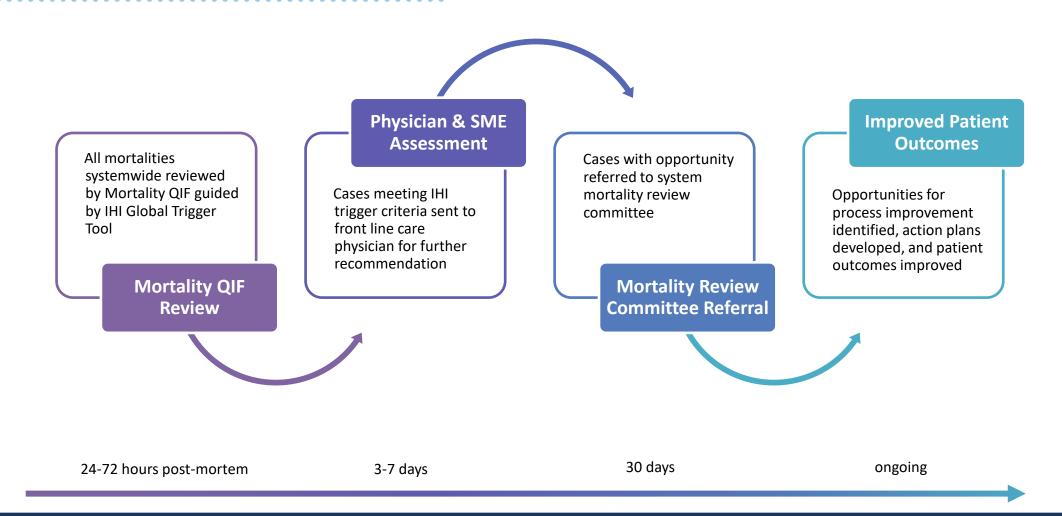
Approach:a guiding principle for the Carilion ClinicMortality Program

Multidisciplinary

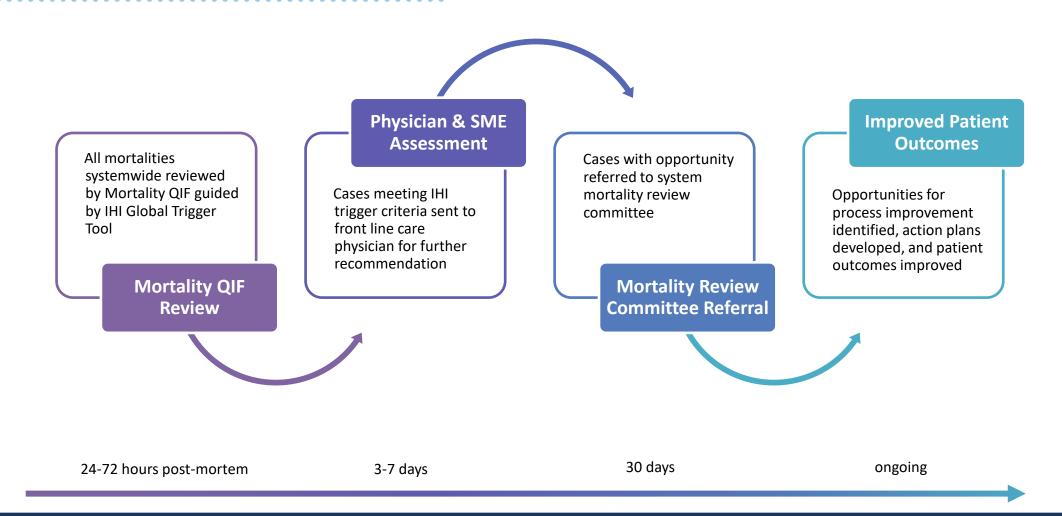




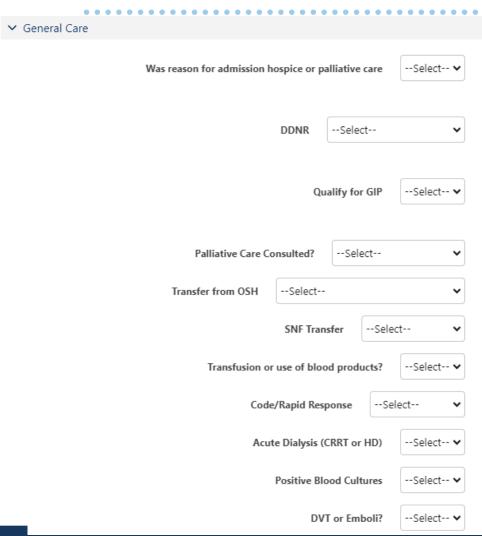
## Real Time Mortality Review (RTMR) Process

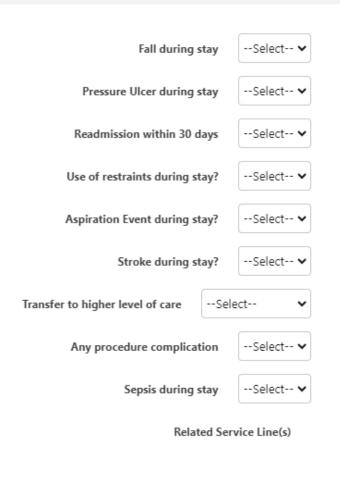


## Real Time Mortality Review (RTMR) Process

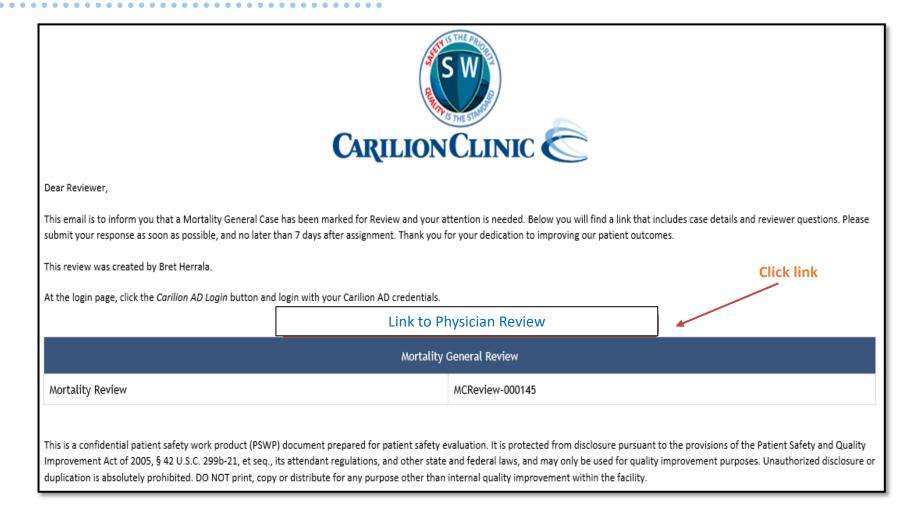


## RTMR: Mortality QIF Review



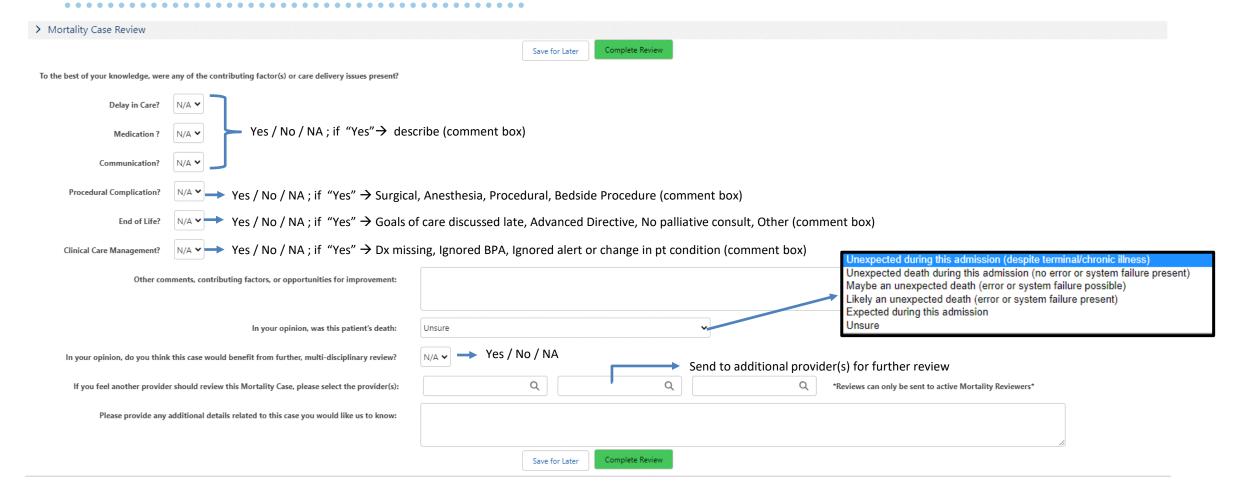


#### RTMR: Physician Escalation





## RTMR: Physician Review



## Measuring Risk Adjusted Mortality

#### Utilizing a Risk Adjustment Calculator allows for

- Objective review of commonly missed DRG related comorbidities
- Generation of a stratified risk score
  - Patients with a score below "Well Above" go through an additional review for clinical opportunities, codes, or POA status
- An additional trigger for interdisciplinary Mortality Review Committee

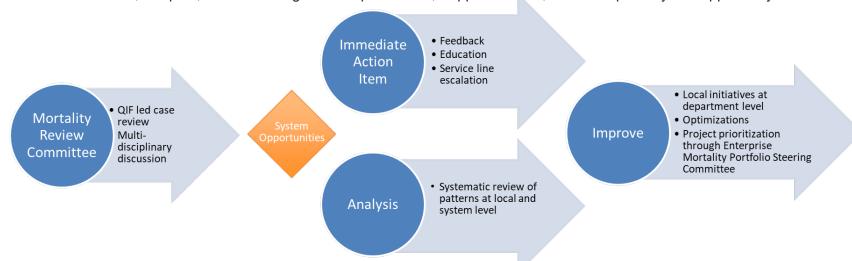




#### **Mortality Review Committee**

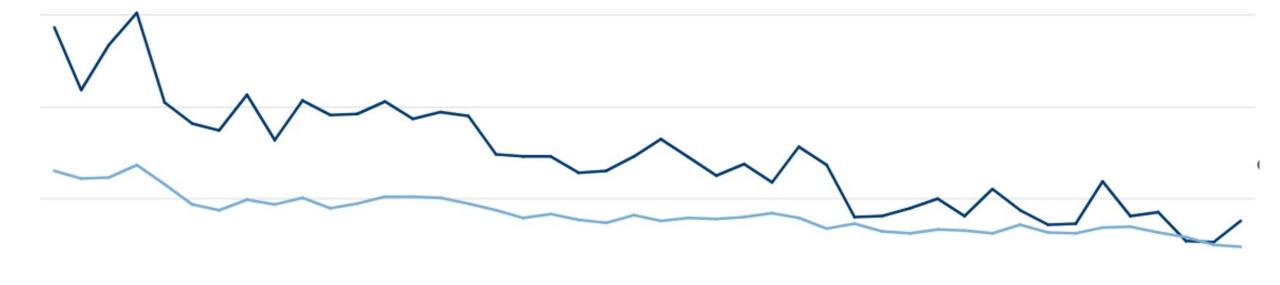
As a group of multidisciplinary, multispecialty professionals, we seek to identify system failures and opportunities for improvement

- We do not seek attribution.
- We do not determine preventability or causality
- We seek to establish opportunity for improvement
- We seek to support any staff who cared for the patient
  - TRUST Team (Second Victim Support)
    - Treatment that is Just, Respect, Understanding and compassionate, Supportive care, and Transparency and opportunity to contribute.



## **Mortality Index Performance**







#### **Next Steps**



Integration of outpatient 30-day mortality and collaboration with community health to address opportunities



Service line focused work



Continuous improvement of data structure to better understand risk adjusted performance and patient outcomes

#### **Lessons Learned**

PARTNERSHIP IS **KEY** 

TRUST BUT VERIFY/
OPTIMIZATION OF
PROCESSES

WELCOMING OF OUTSIDE EVALUATION

UNDERSTANDING
DOWNSTREAM
EFFECTS OF
SILOED
PROCESSES

ASSUMPTIONS
THAT POPULATION
CHARACTERISTICS
DRIVE OUTCOMES

#### **Key Takeaways**



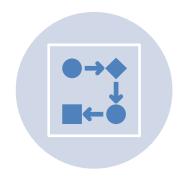
Leverage existing software, programs, and workflows (PSES)



Automate manual processes



Coding accuracy allows for improved performance tracking and appropriate benchmarking



Establish a sustainment plan from the beginning. Standardization helps!

#### **Questions?**



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