

## Healthcare Crisis Preparedness: Ensuring Continuity and Patient Safety

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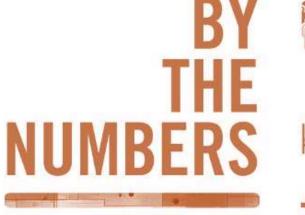
- Not–for–profit healthcare organization headquartered in Roanoke, Virginia
- 9 hospitals
  - Level I and Level III trauma centers
  - Nearly 300 primary & specialty physician practices
- Patient population of almost 1 million Virginians

- Strategic partners at Virginia Tech and Radford University
- Largest private employer in Virginia west of Richmond
- Significant impact on the economic health of the region















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practice sites









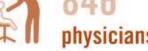




162,010 emergency department visits









308,916 prescriptions filled

# Risk and Resilience Under One Roof – Agenda –

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- How we use Riskonnect at Carilion Clinic
- Our simplified model for healthcare BCMS
- Continuity Planning using Riskonnect at Carilion
- Integrating Risk Management and Business Continuity Management to achieve Operational Resilience (OpRes)
- How does OpRes compare to Business Continuity Planning?
- Where does OpRes lie within the frameworks for Emergency Management, BC/DR, and InfoSec/Cyber Security?
- Recommendations to achieve Operational Resilience
- What it means to be Intentional and Adaptable with Risk and Resilience
- Explore Riskonnect and how it influences Patient Safety



## **Riskonnect at Carilion Clinic**

**Riskonnect Business Continuity & Resilience** 

- Build and maintain our BC Plans for Continuity of Operations Planning (COOP) and Crisis Preparedness
- Holds the BIA data collected. Allows us to identify risks.
- Maps our dependencies. Enables reporting.

#### Riskonnect RMIS

- Rebranded at Carilion "SafeWatch"
- Develop and maintain the back-office engine
- Used for Patient Safety, Risk Mitigation, Claims Management (Legal and Employee Health)
- Allows for front end entry, and backend management.



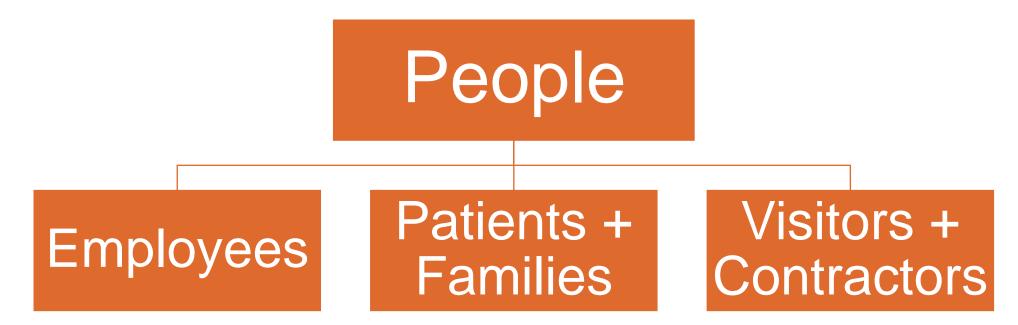


a BCMS can be simplified into three categories of preparedness to protect:









#### EM & Life Safety, Police & Security, HR, and Employee Health



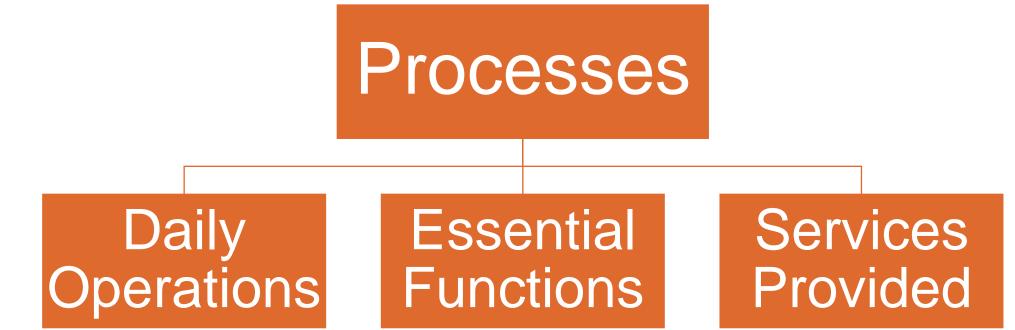




## InfoSec, Physical Security, and IT DR, by hardening facilities externally, and internally with technology

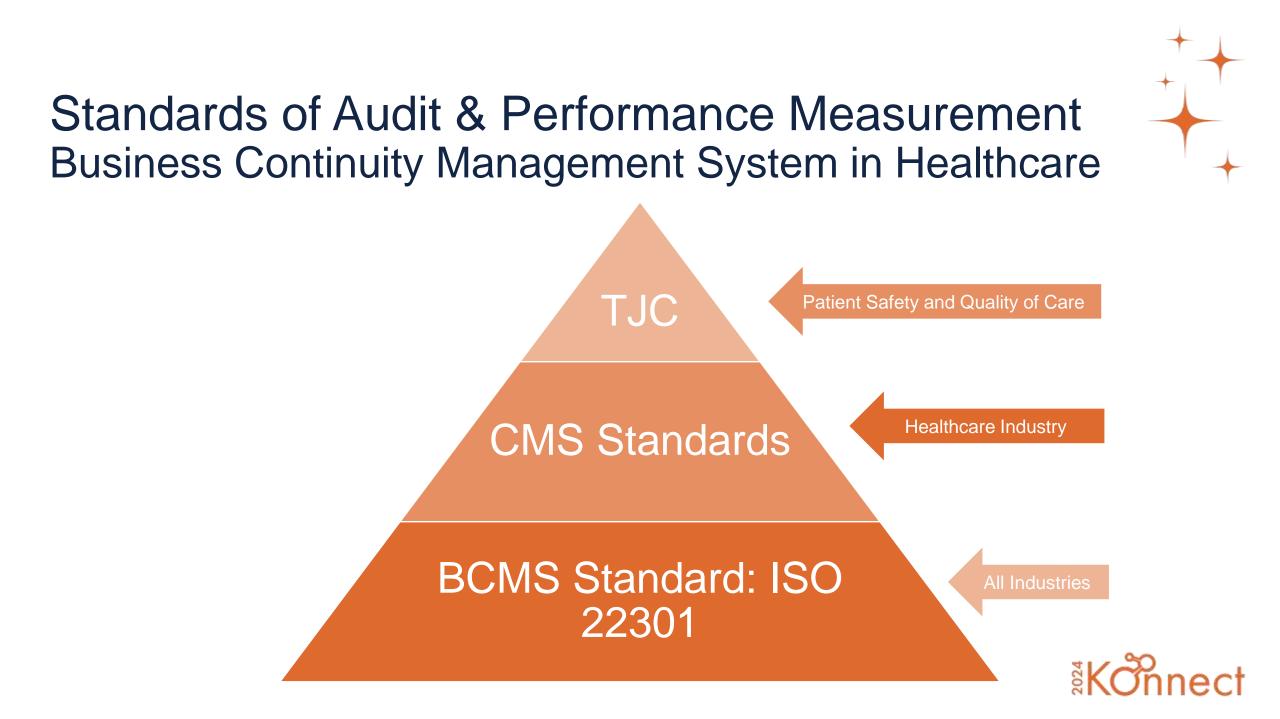






#### Clinical and Administrative/Support Continuity of Operations Plans (COOP)





### Carilion's Business Continuity Management System +

**5 Teams work in preparedness planning:** 

- 1. Emergency Management & Safety
- 2. Corp (Crisis) Communications
- 3. Business Continuity
- 4. Information Security
- 5. IT Disaster Recovery

Each champions resilience with:



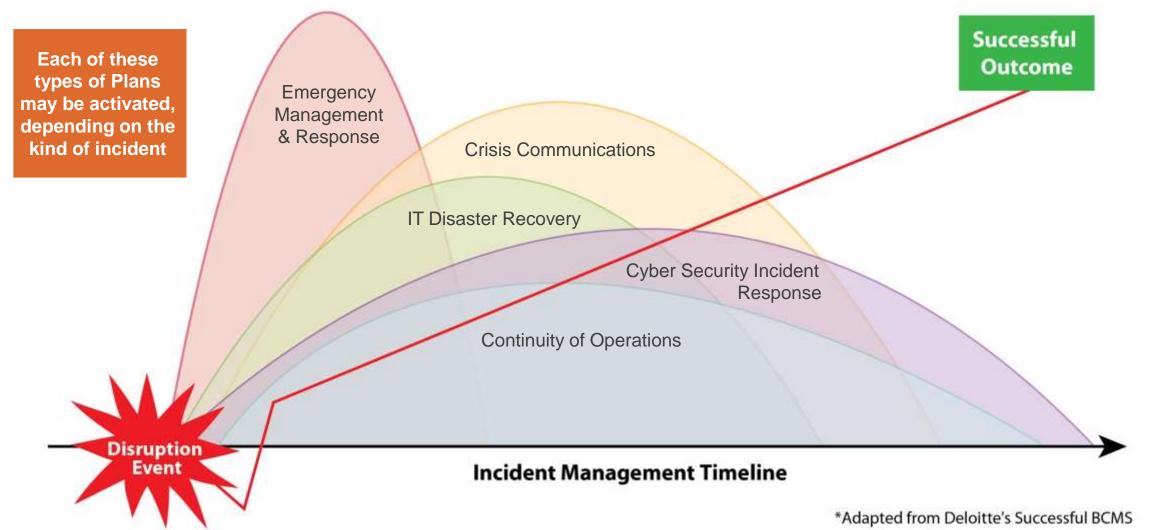
- Crisis Mgmt and Situational Awareness
- Messaging Readiness/Integrity



- Plans to Manage through Disruptions
- Cyber Vigilance and Threat Protection
- Technology Recovery Procedures



# Carilion's Business Continuity Management System



### Carilion's Business Continuity Management System Emergency Management's Threat Assessment

Carilion's Dept. of Emergency Management & Safety performs a Hazard Vulnerability Analysis (HVA) as a threat assessment. When it comes to crisis planning, we have an all-hazards approach; meaning we build preparedness plans for all contingencies focused on

## the impact of the disruption, more than the threat that may cause it.

For example, many threats can cause a power outage. We focus on impacts.





### Continuity of Operations Plans built in Riskonnect

100 Department-level plans across the system, organized by facility; each COOP:

- is either Clinical (supporting patient care and safety) or Administrative (indirect support)
- includes recovery strategies built around 4 major <u>Loss Scenarios</u>, specific to that department and recovery team → → → →
- includes key recovery documentation and downtime procedures for providing critical care and managing through disruptions
- documents upstream and downstream dependencies, from departments to facilities, from applications to suppliers





### Continuity Program Management using Riskonnect

Carilion's COOP program is maintained within the SaaS tool **Riskonnect Business Continuity & Resilience** 

• Access is not dependent upon Carilion's technology or infrastructure; the software hosting our plans is accessible off-premise with direct connection to RK

Carilion assigns 300+ Plan owners/contributors full user privileges to access their plans from any device: to maintain their currency, update with lessons learned, and manage through a disruption

- Over 600 Carilion staff belong to Recovery Teams, with Roles and Responsibilities relative to their SME of the processes and essential services provided by their assigned departments
- All Riskonnect software users are required to attend hands-on training for operational readiness



### Operational Resilience is where Risk Management and Business Continuity Intersect



**Operational Resilience** 



### Integrating Risk Management and Business Continuity Management to achieve Operational Resilience

#### **OpRes Defined:**

"The ability for an organization to continue delivery of its most important services, as aligned to agreed-upon impact and risk tolerances, in an effort to avoid significant disruption to the company's customers, operations, and the broader markets they serve." – The BCI These programs each contribute to Operational Resilience:

- Risk Management (via Governance, Risk, and Compliance)
- Business Continuity Management
- IT Disaster Recovery Planning
- Information Security (and Cyber Security Incident Response Planning)
- Incident Management (via Emergency Management and Crisis Communications)



### Business Continuity Planning is a subset of Operational Resilience



"Business Continuity and Operational Resilience involve intentionally positioning the organization to meet stakeholder expectations regardless of circumstance."

- Riskonnect, Inc.



### Operational Resilience... as compared to... Business Continuity Planning





OPERATIONAL RESILIENCE

BUSINESS CONTINUITY PLANNING



### Operational Resilience... as compared to... Business Continuity Planning

OpRes – Strategic	BCP – Tactical
Mitigate Identified Risk	Accept Identified Risk
Spend for Preparedness	Develop Response Plans
Implement Decisions	Document Recovery Strategies
Holistic Organization's Success	Focus on Department Plans
Prevent or Reduce Major Impact from Disruptions	Document Procedures for Managing through Disruptions (at degraded level)



### EM/BC/DR/InfoSec Frameworks: Areas most influencing OpRes

<u>Prevention</u>, **Mitigation**, <u>Preparedness</u>, Response, Recovery (*EM Framework*)

<u>Prevent</u>, <u>Prepare</u>, Manage, Respond, Recover, Restore (*BCP Framework*)

<u>Prevention</u>, Response, Recovery, Restoration, Resumption (*DR Framework*)

<u>Identify</u>, <u>Protect</u>, <u>Detect</u>, Respond, Recover (*NIST Cybersecurity Framework*)





# Recommendations to achieve OpRes through alignment with Risk Management



Develop and promote a culture of Operational Resilience



Reframe terminology and approach for how to assess and capture risk



Always do: BIAs + Risk Assessments; the data defines the vulnerabilities and risks to operational integrity



Coordinate and refine relationships among all programs contributing to OpRes; build appropriate governance



Define roles and responsibilities of leaders tasked with evaluating risk prioritization and mitigation



Charter an OpRes Steering Committee (or Risk & Resilience Committee) to manage risk, and report mitigation steps/spending to Exec Leadership (as necessary)



### Risk & Resilience: What it Means to be Intentional and Adaptable



#### **RM/IM/BC/ITDR Program Dir.**

Intentional about Risk Identification



#### **Committee Leaders**

 Adaptable with Risk Evaluation & Prioritization



#### **RM/IM/BC/ITDR Program Dir.**

Adaptable with Recovery Planning



#### **Committee Leaders**

 Intentional about Risk Mitigation or Avoidance



# Demonstrate Value with Risk Assessment and Response: Avoid | Mitigate | Accept

Lowest hanging fruit to help show value of OpRes:

- The easiest risk to identify and mitigate is a SPOF
- Eliminate Single Points of Failure in the org
- Start with most critical operations and vulnerabilities that senior leaders say keep them up at night
- Find and mitigate those SPOFs as initial OpRes push



### Business Continuity and Operational Resilience: Final thoughts and recommendations

### Objective: Maintain Minimum Viable Service Levels

- Partner with Risk Management as early as possible in building your program
- When you are embedding BCMS in your organization, integrate Risk into your structure
- Achieving a culture of OpRes means that Business Continuity and Risk go hand-in-hand, and one isn't considered without the other



### Business Continuity and Operational Resilience: Final thoughts and recommendations

### Objective: Maintain Minimum Viable Service Levels

- Identify critical suppliers and request they complete a vendor risk vulnerability assessment
- Identify Important Business Services (IBS), and critical functions within those
- Prioritize vulnerabilities that may threaten impact tolerances (maximum tolerable downtime)



### Operational Resilience Resources Relied Upon for this Presentation

https://www.calqrisk.com/compliance/the-five-pillars-of-operational-resilience/

https://www.conference-board.org/publications/making-operational-resilience-a-competitive-advantage

https://www.thebci.org/news/operational-resilience-the-phoenix-of-business-continuity.html

https://www.thebci.org/resource/bci-continuity-and-resilience-report-2023.html

https://www.thebci.org/resource/bci-operational-resilience-report-2023.html

https://www.thebci.org/resource/bci-operational-resilience-report-2024.html

https://www.protechtgroup.com/en-us/blog/opres-vs-bc-vs-dr-whats-the-difference

https://www.fema.gov/emergency-managers/national-preparedness/frameworks

https://www.nist.gov/cyberframework

www.grf.org/orf





## Patient Safety



Home Job Aids Log Into Safewatch

CARILION



#### **SafeWatch Portal**

For real time assistance regarding maintenance issues please place a work order, technology issues please place an Edison ticket or call 540-224-1599, for non provider employee issues please contact Human Resources at (800) 599-2537.

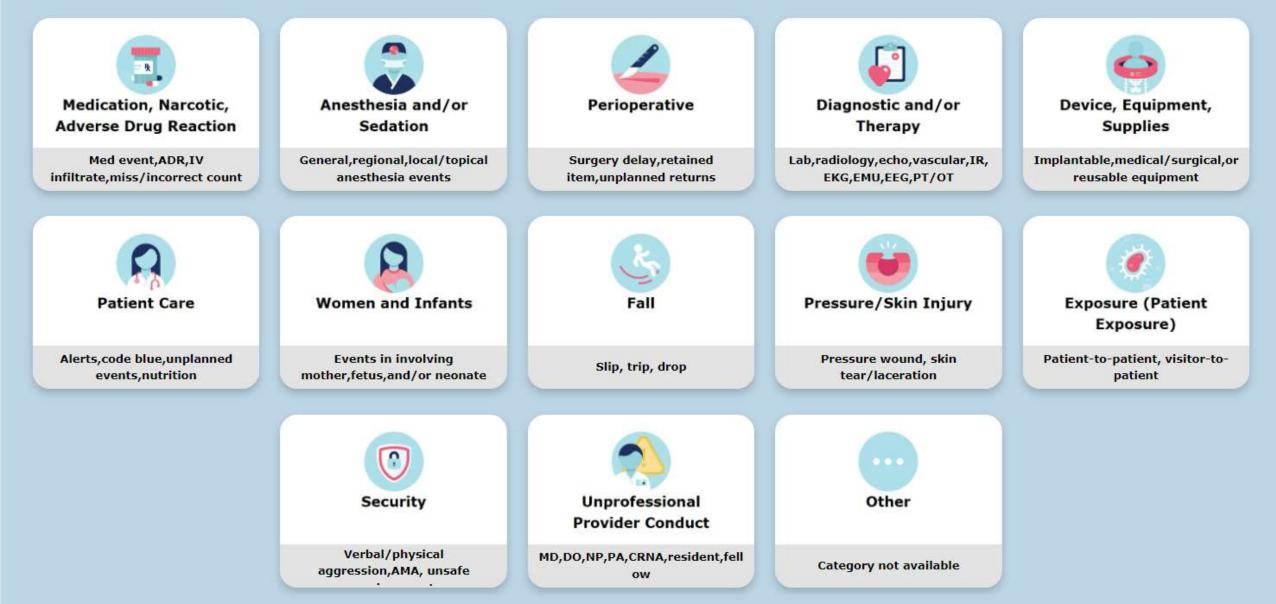


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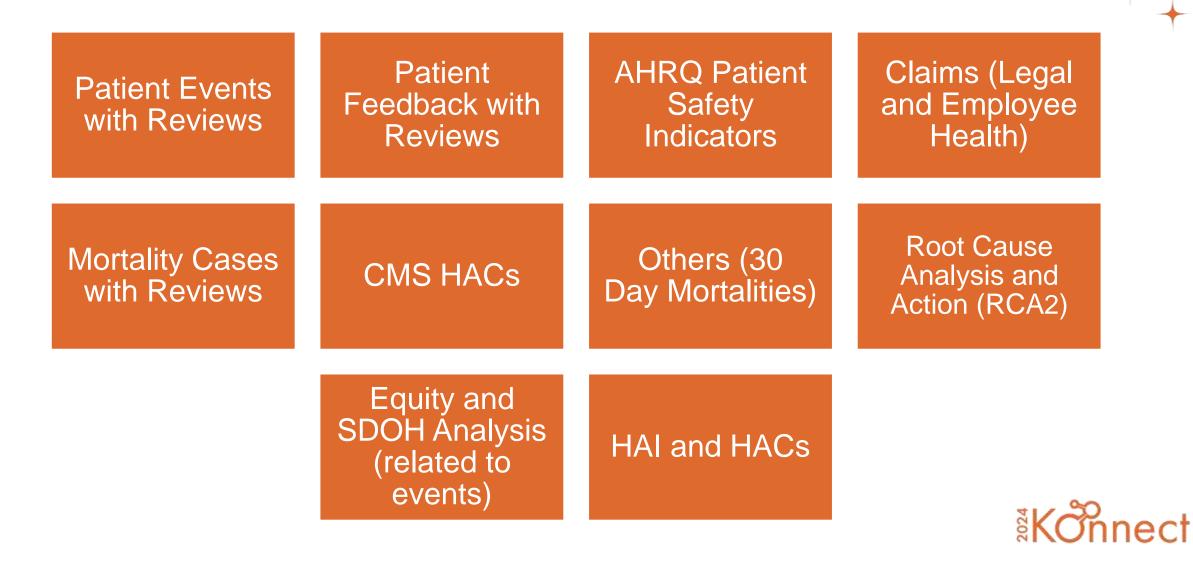




#### **SafeWatch Portal**



### Management of Patient Safety





## DATA WAREHOUSE

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### IMPACT

- Mortality Index (50%)
- PSI and HAC
- Safety Culture
- RCA2 Action Items
- Publicly Reported
  Program Performance





## Questions?



## Thank You!



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