



PROTECT, PREPARE, RECOVER:

A Toolkit-based Approach to Cybersecurity and Downtime Resilience

presented by

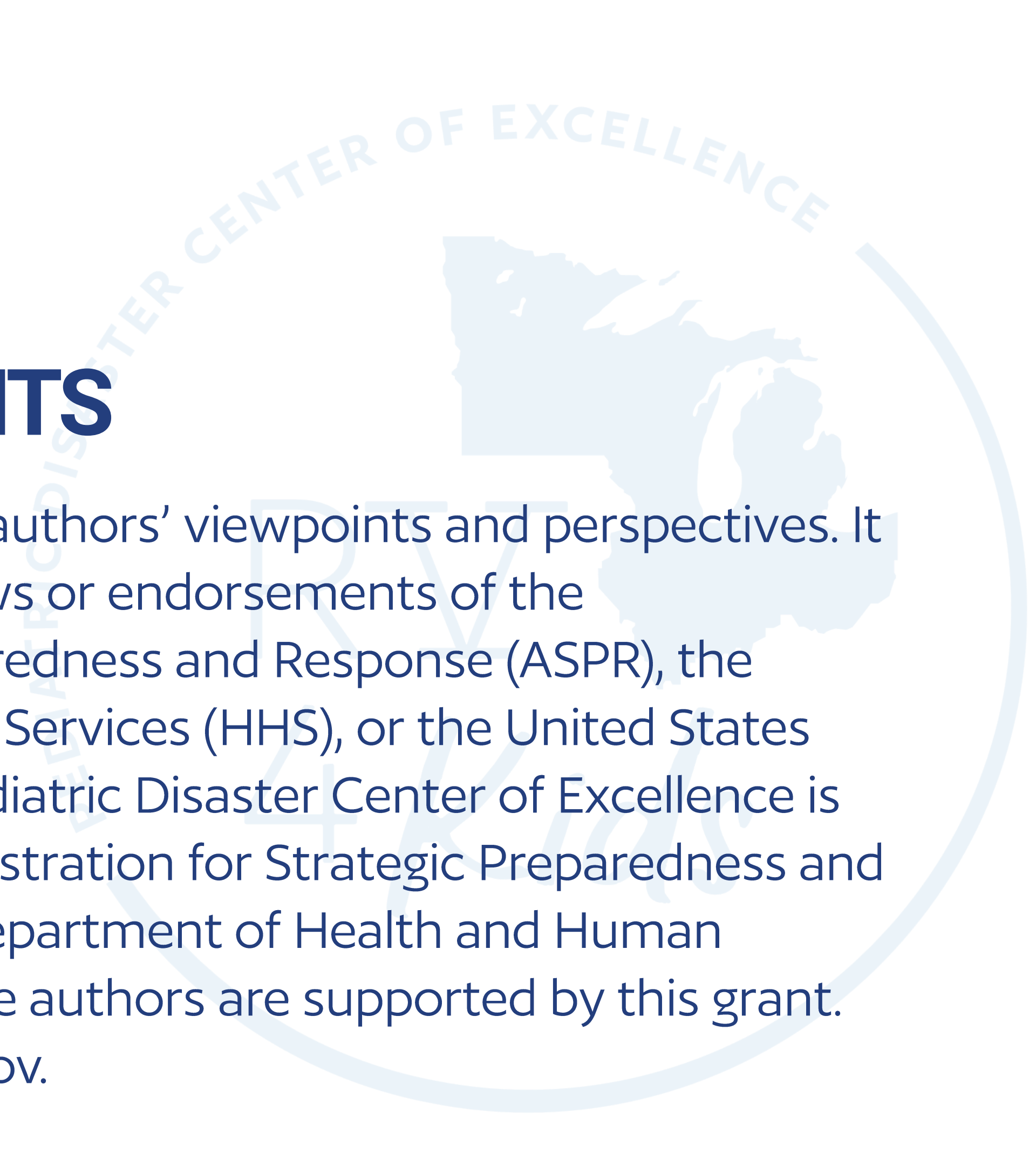
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ACKNOWLEDGEMENTS

The content provided reflects the authors' viewpoints and perspectives. It does not represent the official views or endorsements of the Administration for Strategic Preparedness and Response (ASPR), the Department of Health and Human Services (HHS), or the United States Government. Region V for Kids Pediatric Disaster Center of Excellence is funded by a grant from the Administration for Strategic Preparedness and Response (ASPR) within the U.S. Department of Health and Human Services (4 U3REP190615-01-15). The authors are supported by this grant. For more information, visit [ASPR.gov](https://www.aspr.gov).



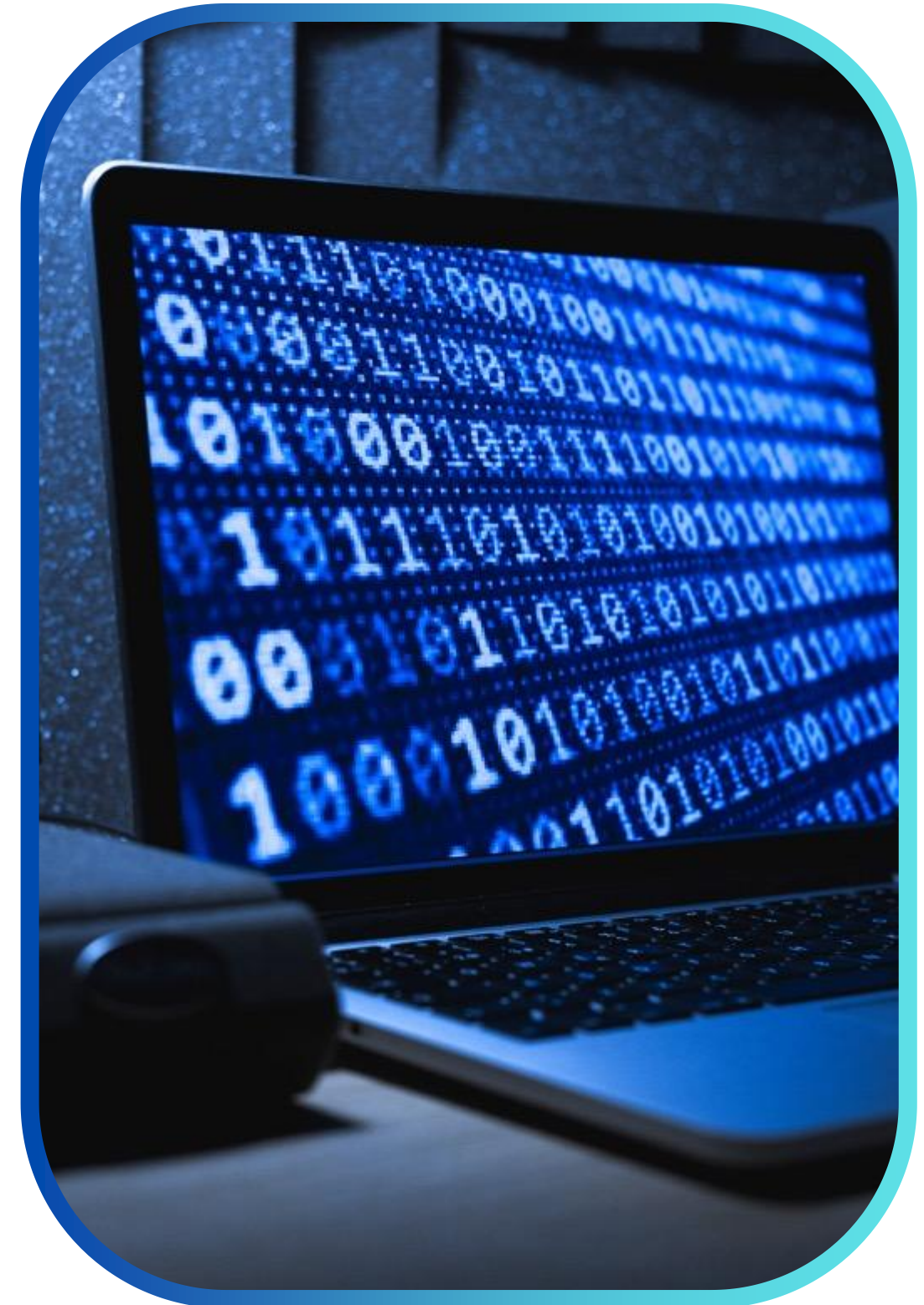
INTRODUCTION

Cyber incidents are clinical emergencies, not isolated IT events.

Cyber incidents within the healthcare industry frequently trigger system shutdowns and operational disruptions, immediately translating to delayed care and increased clinical risk.

IMPACTS:

- Clinical Care Delivery
- Patient Safety
- Hospital Operations
- Regional Healthcare Coordination



COMMON CYBER THREATS

The Foundation of Digital Protection

Phishing

Ransomware

Malware

DDoS Attacks





CURRENT CYBERSECURITY ATTACKS

Trends & Innovations to Watch

Cyber-enabled Crimes (1)

- Americans defrauded of nearly \$21 billion with cryptocurrency and AI-related events among the costliest.
- Top target for ransomware

The Numbers

- Healthcare and public health industries (1)
 - 460 ransomware attacks
 - 182 data breaches
- By the end of 2024, 259 million Americans' PHI had been reported hacked - **A NEW RECORD (2)**

1 – FBI's 2025 Internet Crime Report

2 - American Hospital Association, '2025 Cybersecurity Year in Review, Part One: Breaches and Defensive Measures,' October 7, 2025



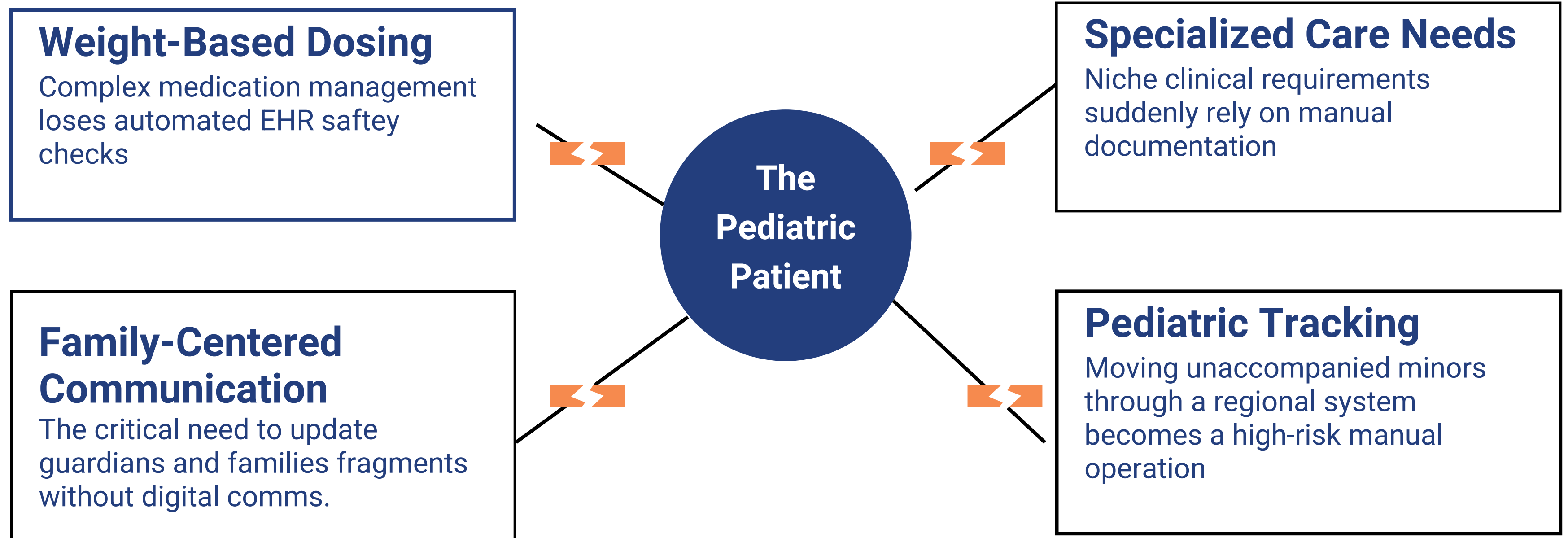
CURRENT CYBERSECURITY ATTACKS

Trends & Innovations to Watch

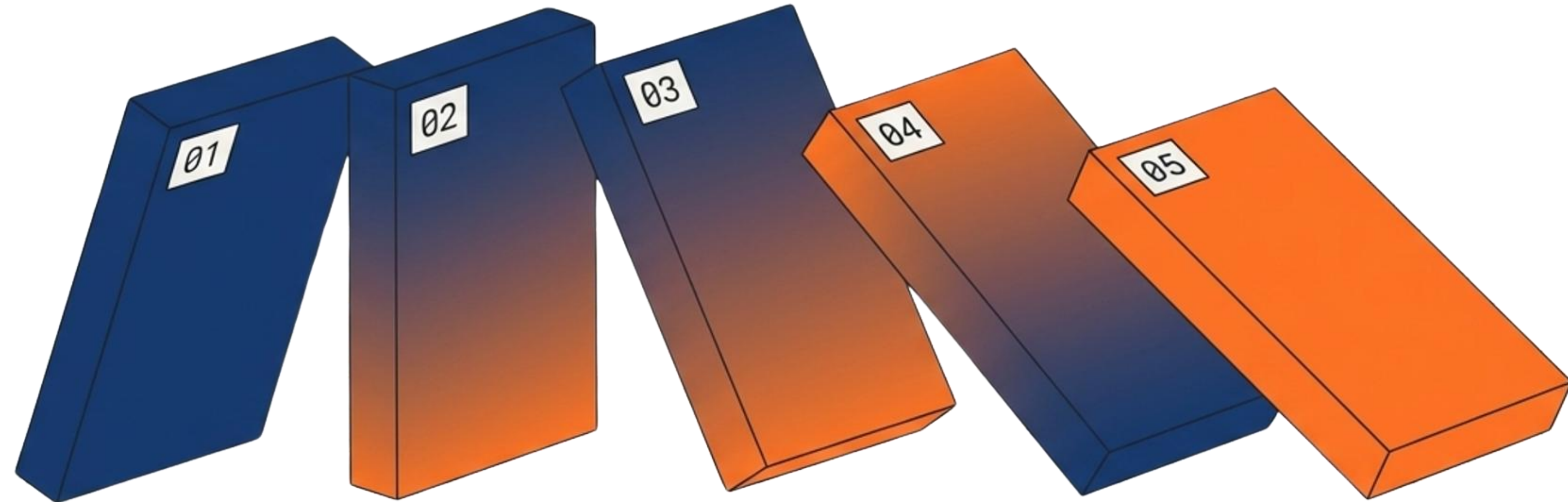
Lessons Learned:

- Over 80% of stolen PHI was not from hospitals - they were stolen from third-party vendors, software services, business associates, and nonhospital providers and health plans.
- Over 90% of hacked health records were stolen outside of the electronic health record system.
- 100% of the hacked data was not encrypted, either because stolen credentials granted access to encrypted data or because data was stored in an unencrypted format outside the EHRs.
- A significant number of the reported hacks in 2024 and 2025 were ransomware attacks accompanied by data theft. This is known as double-layered extortion.

Pediatric environments operate on tighter margins of error during system outages.



Cyber attacks go beyond the initial target



Cyber Attack

Initial breach of network perimeters.

EHR Shutdown

Preemptive or forced disabling of clinical tracking.

Manual Operations

Forced reliance on paper and analog workflows.

Operational Strain

Rapid depletion of staff bandwidth and internal resources

Regional Patient Coordination Failure

Systemic gridlock across the healthcare coalition

Common systemic failures emerge immediately during digital darkness

Status: Vulnerable

Role Clarity

Staff struggle to understand their specific manual operational duties when standard digital workflows disappear.

Status: Vulnerable

Cross-Department Coordination

Siloed departments fail to synchronize actions without centralized EHR visibility.

Status: Vulnerable

Continuity Planning

Operational continuity plans often lack the depth required for prolonged, multi-day outages.

Status: Vulnerable

Communications Breakdowns

Failure to systematically address the distinct needs of families, patients, staff, media, and community partners.

Region V for Kids provides specialized preparedness tools to stop the cascade.

Cybersecurity Programs Toolkit for Healthcare Coalitions



April 2025

This toolkit centralizes information, materials, and templates most applicable and useful for Healthcare Coalition Regional Coordinators to create and implement a solid Cybersecurity Program. The required cybersecurity activities of the ASPR Hospital Preparedness Program (HPP) Cooperative Agreement (EP-13R-24-001) are the measures against which content is added or excluded from this toolkit.

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Extended Downtime Toolkit for Healthcare Coalitions



October 2025

This toolkit centralizes information, materials, and templates most applicable and useful for Healthcare Coalition Regional Coordinators to implement and complete Extended Downtime activities. The required extended downtime activities of the ASPR Hospital Preparedness Program (HPP) Cooperative Agreement (EP-13R-24-001) are the measures against which content is added or excluded from this toolkit.

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Developing the right toolkit for the right phase of the crisis.

	CYBERSECURITY TOOLKIT	EXTENDED DOWNTIME TOOLKIT
Toolkit Anatomy	55 pages, 3 templates, 6 appendices	56 pages, 3 templates, 6 appendices
Trigger Event	The initial network breach and incident command activation.	The exact moment the EHR and clinical systems go entirely dark.
Core Operational Focus	Incident coordination, communication planning, coalition collaboration.	Manual clinical documentation, patient tracking, communications redundancy, regional coordination.

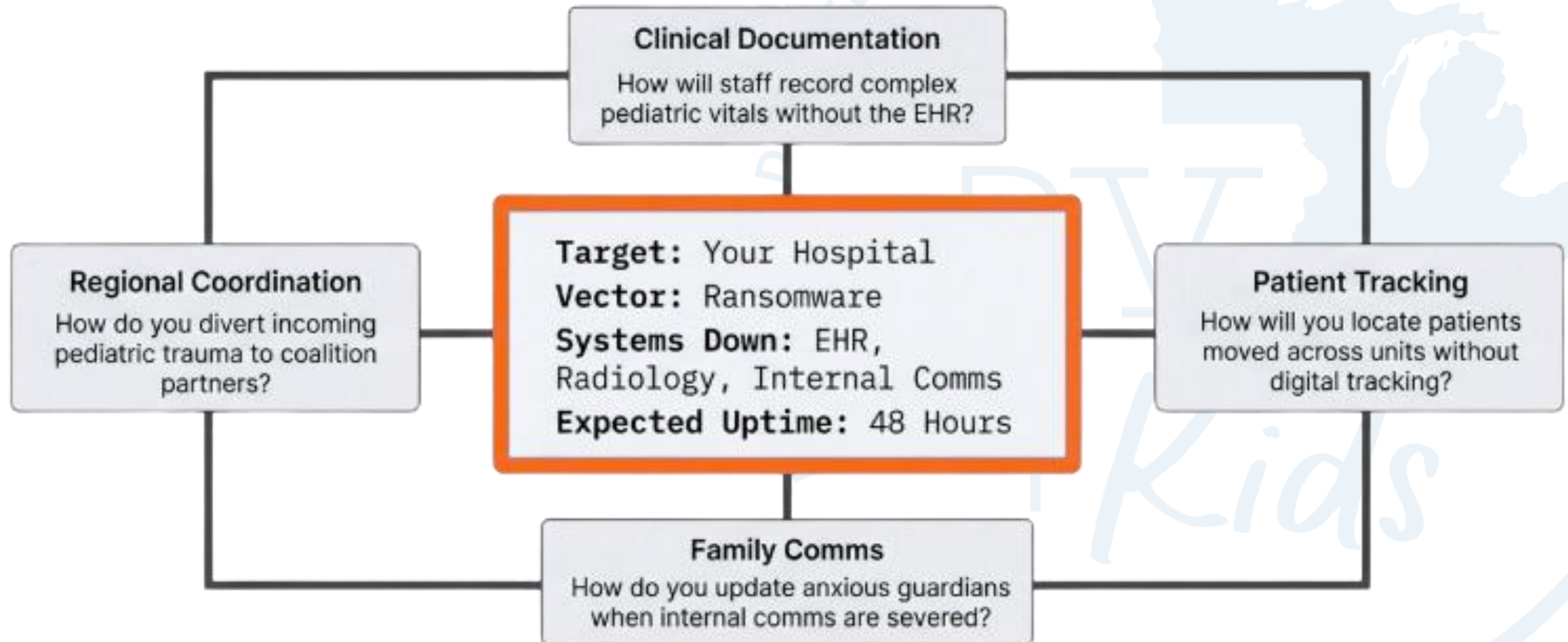
INTERVENTION MAPPING

Activating toolkits as circuit breakers prevents regional collapse.



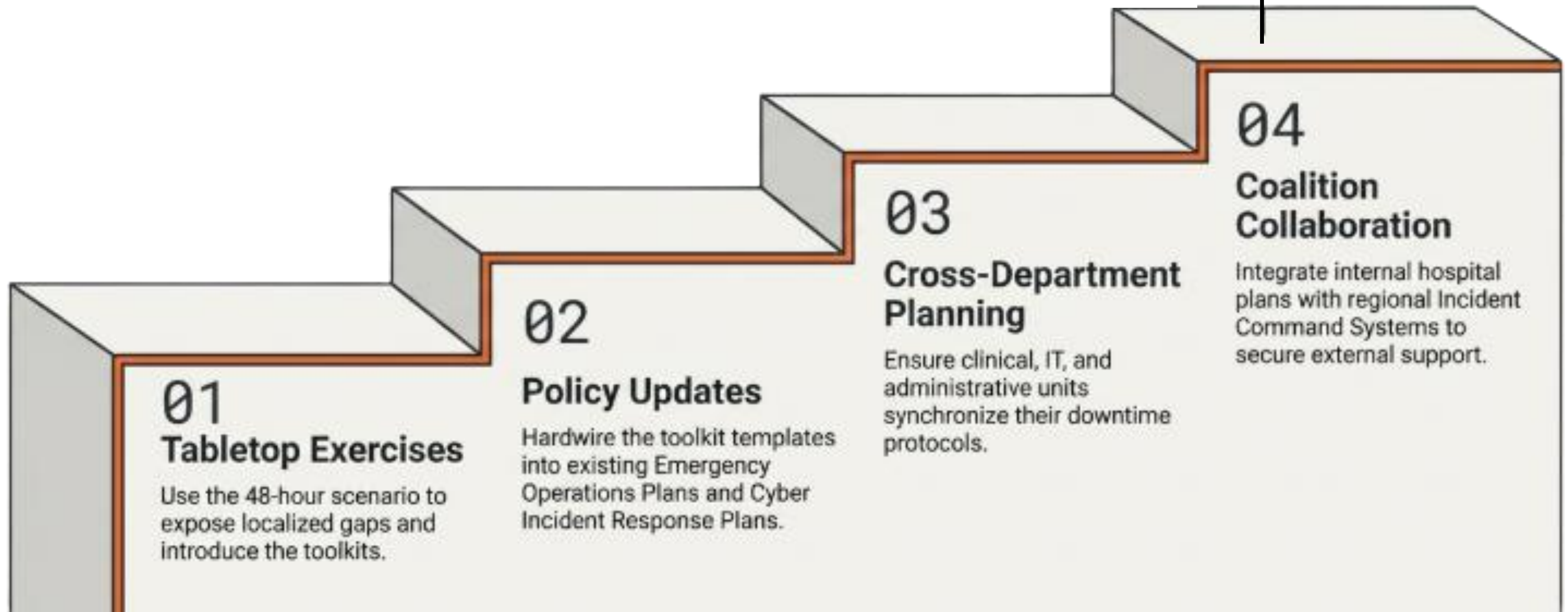
These structural interventions, derived from the toolkits, sever the crisis cascade before it reaches a critical regional failure point.

Scenario Application: The 48-Hour Ransomware Lockdown



Phased integration hardwires resilience into standard hospital operations.

Outcome: Faster response, protected patient safety and seamless regional coordination



Mobilize your preparedness arsenal today.

The Assets: Cybersecurity Programs Toolkit & Extended Downtime Toolkit



Extended Support Resources:

- Visit the Region V for Kids website for guidance
- Access extended ASPR preparedness guidance
- Connect with your local healthcare coalition



QUESTIONS

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THANK YOU