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GUIDE

# Tools To a Consequence Management Approach

in Healthcare Emergency Planning

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## Hazards To Consequences

In the face of ever-evolving risks and uncertainties, healthcare compliance professionals play a critical role in ensuring the resilience and readiness of healthcare facilities. While traditional emergency planning often focuses on specific hazards, such as natural disasters, cyberattacks, and emerging infectious diseases, our approach emphasizes the importance of understanding and managing the consequences of these events.

By shifting the focus from the hazards themselves to their potential impacts, organizations can better anticipate, mitigate, and respond to emergencies of all types; what is known as all-hazard planning.

As you explore this toolkit, I encourage you to adapt the strategies and resources to suit the unique needs and circumstances of your organization. Together, we can strengthen the resilience of healthcare facilities and ensure the safety and well-being of patients, staff, and communities.



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# Risk Assessment and Planning Steps

Effective healthcare emergency preparedness begins with a thorough understanding of potential risks and their consequences. Adopting an all-hazards approach to emergency planning is essential. Recognize that while the specifics of each hazard may differ, many response strategies can be adapted and applied across various scenarios. Flexibility and adaptability are key traits of effective emergency plans. As healthcare compliance professionals, your role in identifying and mitigating these risks is paramount to ensuring the safety and resilience of your organization.

## 1 Conduct a Risk Inventory

Start by taking stock of the diverse range of hazards that could potentially impact your healthcare facility. These hazards may span natural disasters like earthquakes and hurricanes, technological threats such as power outages and cyber attacks, to human-made emergencies like chemical spills or active shooter incidents. Each carries its own set of challenges and potential consequences.

[Access free tools and resources to understand potential risks in your area.](#)

## 2 Understand the Potential Consequences

Once identified, delve deeper into understanding the potential consequences of each hazard. Consider the severity and duration of the event, as well as its specific implications for your operations, patients, and staff. This understanding will serve as the foundation for crafting effective response strategies.

## 3 Prioritize the Risks

Not all risks are created equal. Prioritize them based on their likelihood and potential impact. This prioritization will guide your allocation of resources and attention, ensuring that critical vulnerabilities are addressed promptly and effectively.

## 4 Develop Mitigation Strategies

With risks prioritized, it's time to develop mitigation strategies tailored to each identified hazard. These strategies may encompass a range of measures, from physical infrastructure improvements to redundancies in critical systems, as well as comprehensive staff training programs. The goal is to minimize the likelihood and severity of consequences, bolstering your organization's resilience in the face of adversity.

## 5 Promote Collaboration Efforts

Collaboration is central to effective risk assessment and planning. Engage stakeholders from across your organization, including management, staff, and external partners. Their diverse perspectives and expertise will enrich the planning process, helping to identify potential gaps and opportunities for improvement.

## 6 Continuously Monitor Risks

Emergency preparedness is an ongoing journey. Continuously monitor the evolving threat landscape and update your risk assessment and planning documents accordingly. Regularly test your emergency plans through tabletop exercises and drills, ensuring that your organization remains agile and responsive in the face of emerging challenges.

By following these steps, you'll establish a robust risk assessment and planning framework that empowers your organization to navigate emergencies with confidence. Proactive planning and preparation are key to mitigating risks and safeguarding the well-being of patients, staff, and communities alike.

# Consequence-Focused Mitigation Strategies

Mitigation strategies are the proactive measures that healthcare organizations implement to reduce the likelihood and severity of adverse consequences during emergencies. Shifting from a hazard focus to a consequence focus means taking a broader approach to mitigation strategies. For example, many different emergencies could result in patient overcrowding. Preparing for that consequence also prepares you for each of those hazards — and others you may not have considered!

## Physical Infrastructure

One key aspect of mitigation is to fortify the physical infrastructure of your healthcare facility. This might involve measures such as reinforcing buildings to withstand natural disasters like earthquakes or hurricanes, installing backup power generators to ensure continuity of essential services during power outages, or implementing fire suppression systems to minimize the risk of fire-related damage.

## System Redundancy

In addition to physical infrastructure improvements, redundancy in critical systems can significantly enhance resilience. This might include duplicating essential equipment and supplies to ensure availability in the event of failure, establishing alternative communication systems to maintain connectivity during disruptions, or cross-training staff to perform multiple roles to mitigate the impact of staffing shortages. These consequences could be the same whether the hazard is a pandemic or a flood.

## Staff Training

Comprehensive staff training programs are also vital mitigation strategies. Ensuring that personnel are well-trained and prepared to respond effectively to emergencies can make a significant difference in mitigating their consequences. Training should cover a range of scenarios, from evacuations and patient triage to infection control protocols and crisis communication strategies.

## Collaboration

Collaboration and coordination with external partners are essential components of effective mitigation efforts. Establishing mutual aid agreements with neighboring healthcare facilities, emergency responders, and community organizations can bolster your organization's capacity to respond to emergencies that exceed its resources or capabilities.

## Technology

Technological solutions can also play a crucial role in mitigation. Implementing advanced monitoring and early warning systems can provide timely alerts about impending hazards, allowing for proactive response measures to be implemented swiftly. Similarly, leveraging telemedicine and telehealth technologies can help maintain continuity of care during emergencies when physical access to healthcare facilities may be limited.

## Response Protocols

Response protocols are the predefined procedures and actions that healthcare organizations follow to effectively manage consequences as emergencies unfold. Designate communication channels and protocols for disseminating information to staff, patients, families, and external stakeholders. Clearly define the tasks and responsibilities of each member of the response team. Emergency response protocols should also include procedures for activating and managing the incident command system (ICS), as well as for evacuating or sheltering in place.



Choose a [learning management system](#) with healthcare-specific courses and the ability to upload your own facility-specific training.

## Ongoing Monitoring

Finally, ongoing monitoring, evaluation, and refinement of mitigation strategies are essential to ensure their effectiveness. Regularly review and update your mitigation plans based on lessons learned from drills, exercises, and real-world events. Continuously seek feedback from staff and stakeholders to identify areas for improvement and innovation.

**By implementing these mitigation strategies, healthcare organizations can significantly reduce the impact of emergencies on their operations, patients, and staff. Your proactive approach to mitigation will not only enhance the resilience of your organization but also contribute to the safety and well-being of the communities you serve.**

# Resource Allocation and Management

Resource allocation and management ensures that organizations have the necessary tools, supplies, and support to effectively respond to emergencies. That starts with a thorough inventory of essential resources that are prioritized based on their importance and relevance to emergency response.

CMS 482.15(b)(1) states: The provision of subsistence needs for staff and patients whether they evacuate or shelter in place, include, but are not limited to the following:

- (i) Food, water, medical and pharmaceutical supplies
- (ii) Alternate sources of energy to maintain the following:
  - (A) Temperatures to protect patient health and safety and the safe and sanitary storage of provisions
  - (B) Emergency Lighting
  - (C) Fire detection, extinguishing, and alarm systems
  - (D) Sewage and waste disposal

## Resources To Include in an Inventory

The inventory should include the critical supplies and equipment required by CMS as well as supplies related to the risks identified in your risk assessment.

- Food
- Water
- Medical Supplies
- Surgical Supplies
- Pharmaceuticals and Supplies
- Laboratory Supplies
- Personal Protective Equipment
- Utility Supplies
- Industrial Water
- Medical Gases
- Communication Equipment



# 5 Ways To Take a Proactive Approach To Resource Allocation

Allocate resources according to their anticipated demand and availability, focusing on ensuring adequate supplies to meet the needs of patients and staff during emergencies.

## **1 Establish mechanisms for resource tracking and management.**

Implement systems for logging resource usage, tracking inventory levels, and replenishing supplies as needed. This will help prevent shortages, provide transparency, and ensure continuity of operations during prolonged emergencies.

## **2 Collaborate and coordinate with external partners.**

Establish mutual aid agreements with neighboring healthcare facilities, emergency responders, and community organizations to share resources and support each other during emergencies. Pooling resources and coordinating efforts can enhance collective preparedness and response capabilities.

## **3 Develop contingency plans for resource conservation and utilization.**

Implement strategies for prioritizing resource allocation based on patient needs, severity of the emergency, and available resources. This may include implementing conservation measures for critical supplies, reallocating resources based on shifting demand, and identifying alternative sources for scarce resources.

## **4 Conduct training and drills to familiarize staff with resource allocation.**

Conduct regular training sessions and simulations to practice resource allocation scenarios, identify potential challenges, and refine response protocols.

## **5 Evaluate your strategies after each emergency.**

Assess the effectiveness of resource allocation and management efforts during emergencies. Identify areas for improvement and incorporate lessons learned into future preparedness plans to enhance resilience and readiness.

By implementing effective resource allocation and management strategies, healthcare organizations can optimize their preparedness efforts and enhance their ability to respond to emergencies. Your proactive approach to managing resources will contribute to the safety, resilience, and effectiveness of your organization's emergency response efforts.

# Effective Communication Strategies

Effective communication is the cornerstone of successful emergency response efforts in healthcare settings. Develop protocols for disseminating information to staff, patients, families, and external partners. Ensure that communication is clear, concise, and consistent to avoid confusion and misinformation.

## Clear Channels of Communication

Designate primary and backup communication methods, such as phone trees, two-way radios, and digital messaging platforms, to ensure redundancy and reliability.

## Communicate Externally

Establish procedures for communicating with external stakeholders, including emergency responders, public health agencies, and the media to coordinate response efforts and provide updates.

## Communication Training and Drills

Conduct regular communication exercises and simulations to practice message dissemination, coordination, and crisis communication techniques.

## Cultural and Linguistic Considerations

Ensure that communication materials and messages are accessible and culturally sensitive to meet the needs of diverse populations. Translate critical information into multiple languages and provide interpretation services as needed to ensure equitable access to information.

## Post-Event Briefs

Solicit feedback from staff and stakeholders to identify lessons learned and incorporate them into future communication plans to enhance readiness and resilience.

By implementing clear and comprehensive communication strategies, healthcare organizations can ensure that critical information is effectively disseminated during emergencies, enabling a coordinated and efficient response effort. Your proactive approach to communication will contribute to the safety, trust, and resilience of your organization and the communities you serve.



# Training and Drills

Training and drills are essential components of healthcare emergency preparedness, ensuring that staff are equipped with the knowledge, skills, and experience needed to respond effectively to emergencies. Taking a consequence management approach helps your staff to be more prepared without more work. Since consequences often overlap across emergencies, one exercise can prepare staff for multiple events.

## Required Education

The Centers for Medicare and Medicaid (CMS) requires education on emergency response procedures and protocols, as well as training on your organization's emergency plan. Develop training modules that cover a range of scenarios, including natural disasters, technological hazards, and man-made emergencies. Tailor training content to the specific roles and responsibilities of different staff members, ensuring that each individual understands their role in the response effort.

Training should not be limited to frontline staff; it should also include leadership and management personnel. Provide leadership training on incident command principles, crisis communication strategies, and decision-making under uncertainty. Empower leaders to effectively manage emergency response efforts and provide guidance and support to staff during crises.

Your proactive approach to training will contribute to the safety, confidence, and resilience of your organization and its ability to protect the well-being of patients, staff, and communities.



*A healthcare-specific learning management system (LMS) offers many different emergency preparedness courses to choose from as well as the ability to upload training on your facility's emergency plan. [Learn more.](#)*

## Required Plan Testing

**[CMS requires testing](#)** of emergency plans. As of 2023, outpatient providers are required to conduct two testing exercises annually and one-full scale exercise at least every two years.

Testing exercises, such as tabletop drills and functional exercises, are valuable tools for assessing response plans and building practical skills. Here are a few tips for conducting testing exercises:

- Conduct regular drills to practice response procedures, assess team coordination, and identify areas for improvement.
- Simulate realistic scenarios that challenge participants to make decisions under pressure and adapt to changing circumstances.
- Incorporate hands-on training activities, such as mock patient triage and treatment exercises, to enhance clinical skills and preparedness.

- Provide opportunities for staff to practice essential tasks, such as administering first aid, setting up temporary treatment areas, and communicating effectively with patients and families during emergencies.
- Encourage staff from different departments to participate in training exercises together, fostering teamwork and coordination across organizational boundaries.
- Conduct post-drill assessments to evaluate performance, identify strengths and weaknesses, and gather feedback from participants.

Finally, emphasize the importance of continuous learning and improvement in emergency preparedness efforts. Encourage staff to stay informed about emerging threats and best practices through ongoing education and professional development opportunities. Foster a culture of preparedness and resilience within the organization, where staff are empowered to take proactive steps to enhance their readiness for emergencies.

## Improving Consequence Management

Evaluation and improvement are integral parts of the healthcare emergency preparedness process, providing opportunities to assess the effectiveness of response efforts, identify areas for enhancement, and implement corrective actions. Following an emergency or drill, it's essential to conduct a thorough evaluation of response efforts.

The FEMA Homeland Security Exercise Evaluation Program (HSEEP) offers an after-action report template that is very effective. [Download the template.](#)

Using the template, you can identify what worked well and where challenges were encountered, including communication breakdowns, resource shortages, or procedural issues. With a structured approach to debriefing, participants can reflect on their experiences and share observations and insights.

Make sure to engage stakeholders in the improvement process, soliciting input and feedback on proposed changes. Collaborate with key decision-makers, department heads, and frontline staff to ensure buy-in and support for proposed improvements. Foster a culture of continuous learning and adaptation, where feedback is valued, and lessons learned are integrated into everyday practice.

Implement changes based on evaluation findings and stakeholder input, ensuring that improvements are effectively communicated and incorporated into emergency preparedness plans. Provide training and guidance to staff on updated protocols and procedures, ensuring that everyone is informed and prepared to implement changes during future emergencies.

# Improving Preparedness One Step at a Time

By shifting our focus from specific hazards to the consequences of those hazards, you're empowered to anticipate, mitigate, and manage emergencies of all types.

The practical guidance and resources will help you to conduct risk assessments, develop mitigation strategies, and implement response protocols tailored to healthcare settings.

We thank you for your dedication to healthcare emergency preparedness and for your commitment to the safety and well-being of those you serve. Let us continue to learn, adapt, and innovate as we strive to build a safer and more resilient healthcare system for all.

Together, we can make a difference.



With 1,500+ engineers, consultants, analysts, and strategists, Jensen Hughes provides a range of services across all markets – from government, healthcare, science and technology to energy, mission critical and transportation. Jensen Hughes health care services include:

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# About the Author

Matthew Icenroad, CSSGB, CCMP joined Jensen Hughes in 2017 and provides support for a wide-range of client consulting projects and leads the strategic vision and innovations of the Jensen Hughes Digital ProtectAdvisr application.

Prior to joining our team, Matt served as Senior CMS Policy Advisor at The Joint Commission in Washington, D.C., having previously served as Project Lead, Federal Relations at The Joint Commission, and Senior Quality Analyst for Mercy Medical Center in Baltimore, Maryland. Matt's experience with The Joint Commission afforded him the opportunity to facilitate improvements in the nation's emergency management preparedness and response capabilities, the healthcare environment of care, and the preservation of critical infrastructure. His work in regulation, guidance, policy, and in the development, interpretation, and application of federal emergency management legislation – as well as his hands-on experience – enable him to contribute to the depth of knowledge of our team.

# Resources

In addition to the guidance provided in this toolkit, there are numerous resources available to support healthcare compliance professionals in their emergency preparedness efforts. Explore the following resources for further information, tools, and training opportunities:

## Publications and Guidelines:

- Centers for Disease Control and Prevention (CDC): Offers comprehensive guidance on emergency preparedness and response for healthcare facilities, including the Healthcare Preparedness Checklist and other resources.
- Federal Emergency Management Agency (FEMA): Provides resources and publications on emergency management planning, training, and exercises tailored to healthcare settings.
- World Health Organization (WHO): Offers guidance on healthcare emergency preparedness and response, including technical documents, training materials, and best practices.

## Websites and Online Portals:

- Healthcare Emergency Preparedness Information Gateway: Provides a centralized repository of resources, tools, and best practices for healthcare emergency preparedness.
- American Hospital Association (AHA): Offers resources and tools to support emergency preparedness planning and response for hospitals and healthcare systems.
- Healthcare Ready: Provides information and resources to support healthcare supply chain resilience and continuity during emergencies.

## Training Programs and Courses:

- Emergency Management Institute (EMI): Offers online courses and training programs on emergency preparedness and response, including courses specifically tailored to healthcare professionals.
- American Red Cross: Provides training courses on first aid, CPR, disaster response, and emergency preparedness for healthcare providers and other professionals.
- National Incident Management System (NIMS): Offers training courses on incident command, emergency operations planning, and other topics relevant to healthcare emergency management.

## Professional Organizations and Networks:

- Association of Healthcare Emergency Preparedness Professionals (AHEPP): Provides networking opportunities, resources, and educational programs for healthcare emergency preparedness professionals.

- Healthcare Information and Management Systems Society (HIMSS): Offers resources and events focused on healthcare technology and information management in emergency preparedness and response.

### **Government Agencies and Partnerships:**

- Health Resources and Services Administration (HRSA): Offers funding opportunities, technical assistance, and resources to support healthcare emergency preparedness and response efforts.
- State and local health departments: Provide guidance, support, and resources to healthcare facilities for emergency preparedness planning and response at the regional level.

These additional resources complement the information and tools provided in this toolkit, offering healthcare compliance professionals access to a wealth of knowledge and support for enhancing emergency preparedness efforts. Explore these resources to further strengthen your organization's readiness and resilience in the face of emergencies.