

Kaiser Permanente

Emergency Management

Input

Report Year

2019

Kaiser Permanente

Emergency Management

Hazards - Jefferson County Healthcare Coalition
 Hazard and Vulnerability Assessment Tool
 Based on 5-year data period

Event	PROBABILITY Likelihood this will occur	ALERTS Number of Alerts	ACTIVATIONS Number of Activations	SEVERITY = (MAGNITUDE - MITIGATION)						RISK * Relative threat
				HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
				Possibility of death or injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/Mutual Aid staff and supplies	
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High			0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low	0 = N/A 1 = High 2 = Moderate 3 = Low	0 = N/A 1 = High 2 = Moderate 3 = Low	0 - 100%
Active Shooter	1	0	0	3	1	1	2	1	1	10%
Acts of Intent										
Bomb Threat	1	0	0	0	0	0	0	0	0	0%
Building Move	1	0	1	1	1	1	1	1	1	11%
Chemical Exposure, External	1	0	0	2	1	2	1	2	1	10%
Civil Unrest	1	0	0	2	2	2	2	1	1	11%
Communication / Telephony Failure	1	0	0	0	1	3	1	1	1	8%
Dam Failure	0	0	0	0	0	0	0	0	0	0%
Drought	2	1	0	0	1	1	2	2	1	19%
Earthquake	1	0	0	1	2	2	2	2	1	11%
Epidemic	1	1	1	3	0	1	1	1	1	17%
Evacuation	2	0	0	0	0	2	1	1	1	11%
Explosion	1	0	0	3	2	2	2	1	1	12%
External Flood										
Fire	1	0	0	2	1	2	2	2	1	11%
Flood	2	30	0	1	1	1	2	2	1	41%
Forensic Admission										
Gas / Emmissions Leak	0	0	0	0	0	0	0	0	0	0%
Generator Failure	0	0	0	0	0	0	0	0	0	0%
Hazmat Incident	1	0	0	1	1	2	1	1	1	8%
Hazmat Incident with Mass Casualties	1	1	1	1	0	2	2	2	2	21%
Hostage Situation										
Hurricane	1	0	0	1	1	1	1	1	1	7%
HVAC Failure										
Inclement Weather	3	7	4	2	1	3	2	1	2	53%
Infectious Disease Outbreak	2	0	0	2	2	2	1	1	1	20%
Internal Fire										
Internal Flood										
IT System Outage										
Landslide										
Large Internal Spill										
Mass Casualty Incident	1	0	0	3	1	2	2	1	1	11%
Natural Gas Disruption	0	0	0	0	0	0	0	0	0	0%
Natural Gas Failure	0	0	0	0	0	0	0	0	0	0%
Other	0	0	0	0	0	0	0	0	0	0%
Other Utility Failure										
Pandemic	1	0	0	2	1	2	1	1	1	9%
Patient Surge	2	2	2	1	0	1	2	2	2	30%
Picketing										
Planned Power Outages										
Power Outage	1	0	0	1	1	2	2	1	1	9%

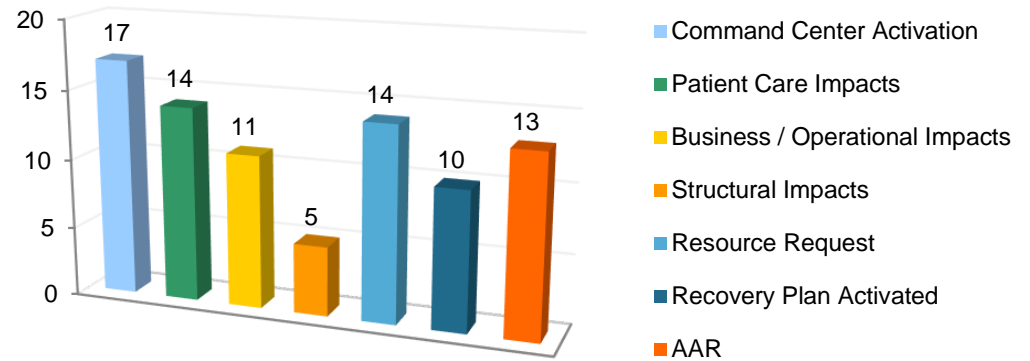
Radiation Exposure										
Seasonal Influenza	3	4	1	2	0	3	1	1	1	36%
Sewer Failure										
Shelter in Place										
Strikes / Labor Action / Work Stoppage										
Suicide										
Supply Chain Shortage / Failure	1	1	1	1	0	1	1	1	1	12%
Suspicious Odor										
Suspicious Package / Substance										
Temperature Extremes										
Tornado	3	10	0	3	3	3	1	1	1	58%
Transportation Failure										
Trauma										
Tsunami										
VIP Situation										
Water Contamination										
Water Disruption										
Weapon										
Workplace Violence / Threat	3	2	1	3	1	1	2	2	2	46%

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Summary For - Jefferson County Healthcare Coalition

ALERT TYPE	OCCURRENCE
Command Center Activation	17
Patient Care Impacts	14
Business / Operational Impacts	11
Structural Impacts	5
Resource Request	14
Recovery Plan Activated	10
AAR	13
Total Alert	22



2019

TOP 10 HVA	RANK	OCCURRENCE
Tornado	1	1
Inclement Weather	2	1
Workplace Violence / Threat	3	2
Flood	4	0
Seasonal Influenza	5	1
Patient Surge	6	0
Hazmat Incident with Mass Casualties	7	0
Infectious Disease Outbreak	8	0
Drought	9	0
Epidemic	10	0

2019

TOP 10 ACTUAL ALERTS	OCCURRENCE	HVA RANK
Hurricane	6	25
Infectious Disease Outbreak	3	
Other	2	32
Workplace Violence / Threat	2	3
Hazmat Incident	2	24
Winter Storm	1	
Seasonal Influenza	1	5
Tornado	1	1

Evaluate the potential for each hazard based on its probability, impact, mitigation, preparedness, response, and recovery over the 5-year data period.

N/A means the event cannot occur, no impact is expected, or no actions or resources have been developed.

Issues to consider for probability include, but are not limited to:

- 1 Known risk
- 2 Historical data
- 3 Manufacturer/vendor statistics

Probability Score:

- | | |
|--------|-----------------------------------|
| Low | Average of 1-2 incidents |
| Medium | Average of 3-4 incidents |
| High | Average of 5 or greater incidents |

Issues to consider for human impact include, but are not limited to:

- 1 Potential for death
- 2 Potential for related injury/illness (requiring medical intervention)

Human Impact Score:

- | | |
|--------|---|
| Low | Minimal risk of injury/illness 3-9 dths/< 20 inj |
| Medium | Moderate risk of injury/illness, and minimal risk of death 10-19 dths/20-29 inj |
| High | High risk of injury/illness, and moderate risk of death 20+ dths/30+ inj |

Issues to consider for property impact include, but are not limited to:

- 1 Cost to replace
- 2 Cost to set up temporary replacement
- 3 Cost to repair
- 4 Time to recover

Property Impact Score

- | | |
|--------|--|
| Low | Average of less than \$10,000/incident |
| Medium | Average of \$10,000 to \$49,000/incident |
| High | Average of \$50,000 or greater/incident |

Issues to consider for business impact include, but are not limited to:

- 1 Business interruption
- 2 Employees unable to report to work
- 3 Customers unable to reach facility
- 4 Company in violation of contractual agreements
- 5 Imposition of fines and penalties or legal costs
- 6 Interruption of critical supplies
- 7 Interruption of product distribution
- 8 Reputation and public image
- 9 Financial impact/burden

Business Impact Score

- | | |
|--------|---|
| Low | 1-2 facilities or small number of individuals |
| Medium | 3-10 facilities |
| High | 11 or more facilities |

Issues to consider for mitigation and preparedness include, but are not limited to:

- Status of current plans
- Frequency of training and exercises
- Frequency of Training
- Insurance
- Availability of alternate sources for critical supplies/services
- Time to marshal an on-scene response
- Scope of response capability
- Historical evaluation of response success
- Time and resources to prepare and mitigate which may be event specific

Mitigation/Preparedness Score:

- | | |
|--------|---|
| Low | No Plans and limited emergency resources in place. |
| Medium | Plans and emergency resources in place that have not been exercised or tested |
| High | Plans, emergency, and non-emergency resources in place that have been exercised or tested |

Issues to consider for HCC response and recovery include, but are not limited to:

- 1 HCC partnerships/agreements with responding agencies? Have they been exercised?
- 2 Type/Volume of supplies on hand within the HCC/will they meet need?
- 3 Alternative staff options within the HCC
- 4 Availability of back-up systems within the HCC
- 5 HCC resources ability to withstand disasters/survivability

Internal Response and Recovery Score:

- | | |
|--------|---|
| Low | No or limited emergency resources on-hand |
| Medium | Emergency resources on-hand |
| High | Emergency and non-emergency resources on-hand |

Issues to consider for external response and recovery include, but are not limited to:

- 1 Partnerships/agreements with responding agencies outside the HCC? Have they been exercised?
- 2 Coordination with local and state agencies outside the HCC
- 3 Coordination with other HCC's within Alabama
- 4 Resources available outside the HCC

External Response and Recovery Score:

- | | |
|--------|---|
| Low | No or limited agreements and emergency resources in place |
| Medium | Emergency agreements and resources in place |
| High | Emergency and non-emergency agreements and resources in place |