

HAZARD VULNERABILITY ASSESSMENT

Hazard identification and risk assessment provides a step by step, factual basis for activities proposed in the identification of risks and strategies for hazard mitigation. Hazard vulnerability analysis (HVA) and risk assessment are systematic approaches to identifying hazards or risks that are most likely to have an impact on a healthcare facility and the surrounding community.

An effective risk assessment informs proposed actions by focusing attention and resources on the greatest risks. The four basic components of a risk assessment are:

1. Hazard identification
2. Profiling of hazard events Inventory of assets
3. Estimation of potential human and economic losses based on the exposure and vulnerability of people, buildings, and infrastructure.

There are multiple tools (HVA's) and resources available to help facilities prioritize their planning efforts based on these identified hazards. Each state, through their Emergency Preparedness Coalition has tools, resources and training available for health care organizations.

Hazard Vulnerability Analysis Tool Examples

Kaiser Permanente has developed a Hazard Vulnerability Analysis tool which is available as a downloadable planning resource. Organizations using this tool are solely responsible for any hazard assessment, compliance with applicable regulations and laws as well as facility identification of hazards and vulnerabilities. This tool It can be accessed at:

The U.S. Department of Health & Human Services at
<https://asprtracie.hhs.gov/technical-resources/resource/250/kaiser-permanente-hazard-vulnerability-analysis-hva-tool>

The Kaiser Permanente HVA tool, depicted below, is downloadable and customizable for your individual organization's needs.

1. Fill in facility specific information

1	Kaiser Permanente	
2	Emergency Management	
3	Input	
4	Report Year	
5	Last Saved Thursday, January 05, 2017 at 01:58 PM	
6	Report For Enter name of hospital	

2. Conduct your analysis with your team and complete the data collection section – including the type of hazard, impact, probability, response and risk level.

Event	PROBABILITY	ALERTS	ACTIVATIONS	SEVERITY - (MAGNITUDE - MITIGATION)						RISK
				HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPAREDNESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	Number of Alerts	Number of Activations	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%
13 Active Shooter										
14 Acts of Intimidation										
15 Bomb Threat										
16 Building Move										
17 Chemical Exposure, External										
18 Civil Unrest										
19 Communication / Telephone Failure										
20 Gas Failure										
21 Drought										
22 Earthquake										
23 Epidemic										
24 Evacuation										
25 Explosion										
26 External Flood										
27 Fire										
28 Food										
29 Forensic Admission										
30 Gas (Compressor Leak)										
31 Generator Failure										
32 Hazard Incident										
33 Hazard Incident with Mass Casualties										
34 Hostage Situation										
35 Hurricane										
36 HVAC Failure										
37 Incident/Intruder										
38 Infectious Disease Outbreak										
39 Internal Fire										
40 Internal Flood										
41 IT System Outage										
42 Landslide										
43 Large Internal Spill										

3. Summarizes your individual facility information, identifying the specific trends as required.

1	Kaiser Permanente	
2	Emergency Management	
3	Summary For - Enter name of hospital	
4	ALERT TYPE OCCURRENCE	
5	Command Center Activation	0
6	Patient Care Impacts	0
7	Business / Operational Impacts	0
8	Structural Impacts	0
9	Resource Request	0
10	Recovery Plan Activated	0
11	AAR	0
12	Total Alert	0
13	TOP 10 HVA RANK OCCURRENCE	
14	#1	1
15	#2	2
16	#3	3
17	#4	4
18	#5	5
19	#6	6
20	#7	7
21	#8	8
22	#9	9
23	#10	10
24	TOP 10 ACTUAL ALERTS OCCURRENCE HVA RANK	
25	0	

4. Should an incident occur, it provides a log to document your organization’s response and correlates back to your HVA analysis.

Kaiser Permanente
Emergency Management
Data - Enter name of hospital

Date	Alert Category	Alert Type	Internal/External	Responder	Location	Address	Notification Method	Point of Contact	Command Center	Patient Care	Business / Operations	Structure	Resource	Recovery Plan	AAH	Top 5 HV	End Date	Event Summary	
11																			
12																			
13																			
14																			
15																			
16																			
17																			

ACCESS STATE AND LOCAL SPECIFIC RESOURCES

All State Health Care Coalition Listing

<https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/SurveyCertEmergPrep/Downloads/By-Name-by-State-Healthcare-Coalitions.pdf>

Additional Resources related to HVA

U.S. Department of Health & Human Services – Emergency Response
<https://asprtracie.hhs.gov/technical-resources>

Long Term Care HVA Resources
Department of Health and Human Services
<https://asprtracie.hhs.gov/technical-resources/52/long-term-care-facilities/47>