

Facility-Based Risk Assessment

Long Term Care communities are required to conduct and annually review their Hazard Vulnerability Analysis (HVA). The HVA provides a systematic approach to recognizing hazards that may affect demand for nursing home or assisted living residences or its ability to provide those services. The risks associated with each hazard are analyzed to prioritize planning, mitigation, response and recovery activities. The HVA serves as a needs assessment for the Emergency Management program. This process should involve

emergency preparedness program; individuals or organizations using this tool are solely responsible for any hazard assessment and compliance with applicable laws and regulations.

INSTRUCTIONS:

The purpose of this easy to use HVA Tool is to **evaluate potential for event** and response among the following categories using the hazard specific scale. You must address ALL potential threats in your All Hazards Emergency Area.

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

- | | | |
|---------------|--------------------|-----------------------------------|
| 1. Known risk | 2. Historical Data | 3. Manufacturer/vendor statistics |
|---------------|--------------------|-----------------------------------|

Issues to consider for **response** include, but are not limited to:

- | | | |
|---|---------------------------------|-----------------------------|
| 1. Time to marshal an on-scene response | 2. Scope of response capability | 3. Historical evaluation of |
|---|---------------------------------|-----------------------------|

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

- | | |
|--|--|
| 1. Potential for staff death or injury | 2. Potential for patient death or injury |
|--|--|

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 |
|--------------------|---|-------------------|

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

- | | | |
|--|---|----|
| 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 | |

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

- | | | | |
|----------------------------|--------------------|--------------|------------------------------------|
| 1. Status of current plans | 2. Training status | 3. Insurance | 4. Availability of back-up systems |
|----------------------------|--------------------|--------------|------------------------------------|

Issues to consider for **internal resources** include, but are not limited to:

- | | | | |
|------------------------------|-------------------------------|-----------------------|----|
| 1. Types of supplies on hand | 2. Volume of supplies on hand | 3. Staff availability | 4. |
|------------------------------|-------------------------------|-----------------------|----|

Issues to consider for **external resources** include, but are not limited to:

- | | | |
|--|--|-----------------|
| 1. Types of agreements with community agencies | 2. Coordination with local and state agencies | 3. Coordination |
| with proximal health care facilities | 4. Coordination with treatment specific facilities | |

provide your specific and overall relative threat.

Resources: HHS.gov TRACIE - Healthcare Emergency Preparedness Information Gateway

HAZARD AND VULNERABILITY ASSESSMENT TOOL NATURALLY OCCURRING EVENTS

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
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 or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Tornado	3	2	2	3	2	2	2	72%
Severe Thunderstorm	3	2	2	1	2	2	2	61%
Snow Fall	3	2	1	1	2	1	2	50%
Blizzard	3	2	1	2	2	1	2	56%
Ice Storm	3	2	2	2	2	2	2	67%
Earthquake	1	2	1	2	2	2	2	20%
Heat/Humidity	2	1	1	1	2	2	1	30%
Drought	2	1	1	1	2	2	1	30%
Flood, External	1	1	1	2	2	2	2	19%
Wild Fire	1	1	1	1	2	2	2	17%
Landslide	0	1	0	0	0	0	2	0%
Dam Inundation	0	0	0	0	0	0	0	0%
Subsidence	0	0	0	0	0	0	0	0%
Epidemic	2	2	1	2	2	2	1	37%
AVERAGE SCORE								0%
*Threat increases with percentage.								
	1.50	1.19	0.88	1.13	1.38	1.25	1.31	20%

RISK = PROBABILITY * SEVERITY		
0.20	0.50	0.40

HAZARD AND VULNERABILITY ASSESSMENT TOOL TECHNOLOGIC EVENTS

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
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 or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Electrical Failure	1	1	1	2	1	1	1	13%
Generator Failure	1	1	1	2	1	1	1	13%
Transportation Failure	1	2	1	2	2	2	2	20%
Fuel Shortage	1	2	2	2	2	1	1	19%
Communications Failure	2	2	2	2	2	2	1	41%
Information Systems Failure	2	2	2	2	2	2	1	41%
Fire, Internal	2	2	2	2	2	1	1	37%
Flood, Internal	1	1	1	1	2	2	2	17%
Hazmat Exposure, Internal	1	2	1	1	2	2	2	19%
Supply Shortage	2	1	1	2	2	1	1	30%
Structural Damage	2	2	1	2	2	1	1	33%
AVERAGE SCORE								0%
*Threat increases with percentage.								0%
								0%
								0%
								0%
								0%
								0%
								0%
	0.84	0.95	0.79	1.05	1.05	0.84	0.74	8%

**Threat increases with percentage.*

RISK = PROBABILITY * SEVERITY		
0.08	0.28	0.30

HAZARD AND VULNERABILITY ASSESSMENT TOOL

HUMAN RELATED EVENTS

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
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 or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Mass Casualty Incident (trauma)	1	2	2	2	2	1	1	19%
Mass Casualty Incident (medical/infectious)	1	2	2	2	2	1	1	19%
Terrorism, Biological	1	2	1	1	3	2	1	19%
VIP Situation	1	1	1	1	3	1	1	15%
Hostage Situation	1	1	1	1	2	1	1	13%
Civil Disturbance	1	1	1	1	3	1	1	15%
Missing Resident	2	2	1	1	2	2	2	37%
Bomb Threat	1	1	1	1	2	1	1	13%
AVERAGE								0%
								0%
								0%
	0.90	1.20	1.00	1.00	1.90	1.00	0.90	13%

*Threat increases with percentage.

RISK = PROBABILITY * SEVERITY

0.13 0.30 0.43

HAZARD AND VULNERABILITY ASSESSMENT TOOL EVENTS INVOLVING HAZARDOUS MATERIALS

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
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 or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Mass Casualty Hazmat Incident (<i>From historic events at your LTC with >= 5 victims</i>)	0	1	1	1	2	2	1	0%
Small Casualty Hazmat Incident (<i>From historic events at your LTC with < 5 victims</i>)	1	1	1	1	2	2	1	15%
Chemical Exposure	1	1	1	1	2	1	1	13%
Terrorism, Chemical	0	1	1	1	2	1	1	0%
Radiologic Exposure, External	0	1	1	1	2	1	1	0%
Terrorism, Radiologic	0	1	1	1	1	1	1	0%
AVERAGE								0%
								0%
								0%
								0%
	0.22	0.67	0.67	0.67	1.22	0.89	0.67	2%

*Threat increases with percentage.

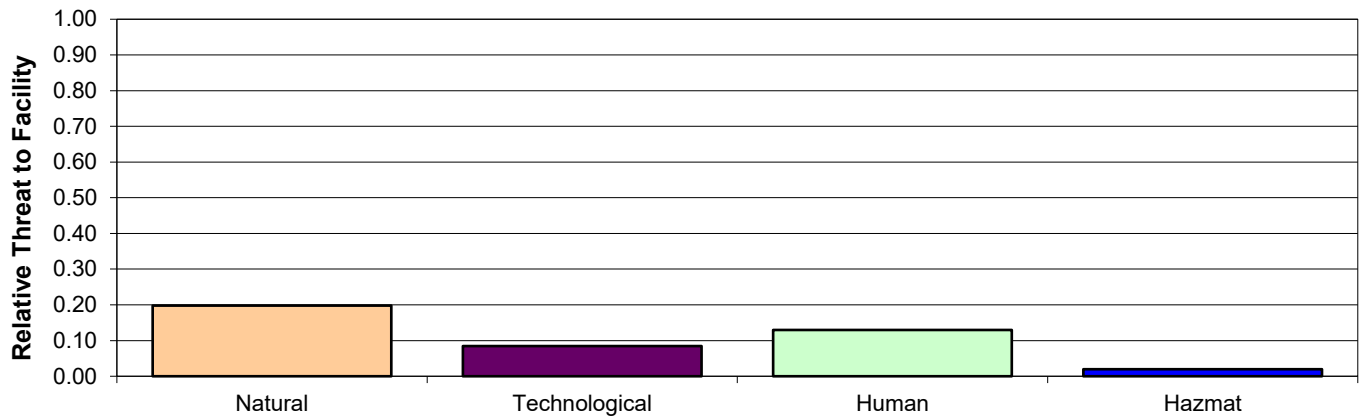
RISK = PROBABILITY * SEVERITY

0.02 0.07 0.27

SUMMARY OF LONG TERM CARE COMMUNITY HAZARDS ANALYSIS

	Natural	Technological	Human	Hazmat	Total for Facility
Probability	0.50	0.28	0.30	0.07	0.31
Severity	0.40	0.30	0.43	0.27	0.34
Hazard Specific Relative Risk:	0.20	0.08	0.13	0.02	0.11

Hazard Specific Relative Risk to Long Term Care Facility



Probability and Severity of Hazards to Long Term Care Facility

