

2017 Knox/East Tennessee Healthcare Coalition Hazard Vulnerability Assessment

Assessment compiled from HVAs from KET Coalition Participating Hospitals and input from the KET Coalition Members

All items on the attached HVA have been identified as potential hazards affecting the KET HCC. For ranking purposes, the top 5 items from each category were compiled to create the uniform document, with 1 being the highest risk hazard.

2017 KET HC Regional HVA

	Hospital 1	Hospital 2	Hospital 3	Hospital 4	Hospital 5	Hospital 6	Hospital 7	Hospital 8	Hospital 9	Hospital 10	Hospital 11	Hospital 12	Hospital 13	Hospital 14	Hospital 15	Hospital 16	Hospital 17	Hospital 18	Hospital 19	Hospital 20	Hospital 21	Hospital 22	Average Ranking	# (1) x 5	# (2) x 4	# (3) x 3	# (4) x 2	# (5) x 1	Adjusted weighted score	Adjusted Ranking	
Electrical Failure		3		1	3	2	1	1		2		2	3		2	1		2	2				1.9	(4x5) 20	(6x4) 24	(1x3) 3			53	1	
Generator Failure		3	3			3		1				1		2	2		2						2.1	(2x5) 10	(3x4) 12	(3x3) 9			31	4	
Fuel Shortage		1	4		4			1								4					4			(2x5) 10			(4x2) 8		18		
Natural Gas Failure		4				3		1															2.7	(1x5) 5		(1x3) 3	(1x2) 2		10		
Water Failure		2		4	3	1	3	4	1		2		4										2.7	(2x5) 10	(2x4) 8	(2x3) 6	(2x2) 4		28		
Sewer Failure (pump station fails)		2			4	4	3	5	2		2						3						3.1		(3x4) 12	(1x3) 3	(2x2) 4	(1x1) 1	20		
Sewer Failure (internal pump failure)		2			4	4	3		1		2		1				3						2.5	(2x5) 10	(2x4) 8	(2x3) 6	(2x2) 4		28		
Steam Failure		4				3	3	1								4							3.0	(1x5) 5		(2x3) 6	(2x2) 4		15		
Fire Alarm Failure		3			5			1	3		1	4		2	2								2.6	(2x5) 10	(2x4) 8	(2x3) 6	(1x2) 2	(1x1) 1	27		
Communications Failure	3				4		1	1	1		4	3	1	1	1					3			2.1	(5x5) 25		(3x3) 9	(2x2) 4		38	3	
Medical Gas Failure O2		2			4			1				1											2.0	(2x5) 10	(1x4) 4		(1x2) 2		16		
Medical Vacuum Failure		2				3		1				5											2.8	(1x5) 5	(1x4) 4	(1x3) 3			12		
Resource/Supply Chain Failure	2		1		1			1	2	2													1.5	(3x5) 15	(3x4) 12				27		
Information Systems Failure	4	4		5	4		3		1	4	1	2	5	4	1	1	2	5				3	3	3.1	(4x5) 20	(2x4) 8	(3x3) 9	(5x2) 10	(3x1) 3	50	2
Flood, Internal		1	2		3	2		2			3	5	2			1	4						2.4	(3x5) 15	(4x4) 16	(2x3) 6	(1x2) 2	(1x1) 1	30	5	
Structural Damage		3	5	2	4	3		2	2								3						3.0		(3x4) 12	(3x3) 9		(1x1) 1	22		
Fire, Internal		3		3	2	5		1				3		2	2								2.6	(1x5) 5	(3x4) 12	(3x3) 9		(1x1) 1	27		
HVAC Failure	1	2			4		3		2	5			5								5		3.4	(1x5) 5	(2x4) 8	(1x3) 3	(1x2) 2	(3x1) 3	21		
Transportation Failure		2						1				5									5		3.3	(1x5) 5	(1x4) 4			(2x1) 2	11		
Internet Outage								1													4		2.5	(1x5) 5			(1x2) 2		7		
Electromagnetic Pulse																					2		2		(1x4) 4				4		
Sprinkler System Failure																					1		1	(1x5) 5					5		
Major Utility Disruption																				1			1	(1x5) 5					5		

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Mass Casualty Incident (trauma)	2	2	3	1	3	3	2	1	2	4	2	1	2		3		5	1						2.3	(4x5) 20	(6x4) 24	(4x3) 12	(1x2) 2	(1x1) 1	59	1	
Mass Casualty Incident (medical/ infectious)	1	1		4	4	3	4	4	2	2		4	2	4	3		3	2			4			2.9	(2x5) 10	(4x4) 16	(3x3) 9	(6x2) 12		47	3	
Mass Casualty Incident (mental/ behavioral health)									2																	(1x4) 4			4			
Terrorism, Biological	4	1				2	5		1			5		3			2					3			2.9	(2x5) 10	(2x4) 8	(2x3) 6	(1x2) 2	(2x1) 2	28	
Terrorism, Cyber	4								1																2.5	(1x5) 5			(1x2) 2		7	
VIP Situation		5	5						2				5													(1x4) 4			(3x1) 3	7		
Planned Large Scale Event									1																	(1x5) 5				5		
Infant (Peds) Abduction		2	2				1		1			2				1									1.5	(3x5) 15	(3x4) 12				27	
Active/Potential Shooter			1	3	1				1		4		1		1			3		3		3			2.0	(5x5) 25		(4x3) 12	(1x2) 2		39	4
Hostage Situation	4	1		2	2			3	1	5			1	2			2	4			2				2.4	(3x5) 15	(5x4) 20	(1x3) 3	(2x2) 4	(1x1) 1	38	5
Workplace Violence									1		1									2		4			2.0	(2x5) 10	(1x4) 4		(1x2) 2		16	
Civil Disturbance	4		4				3		1				4			2	4				5	1			3.1	(2x5) 10	(1x4) 4	(1x3) 3	(4x2) 8	(1x1) 1	26	
Labor Action						3		5	1				5												3.5	(1x5) 5		(1x3) 3		(2x1) 2	10	
Forensic Admission	3	4		5		1		2	1		3		3		2	1	4								2.6	(2x5) 10	(2x4) 8	(3x3) 9	(2x2) 4	(1x1) 1	32	
Bomb Threat		3			5	2	5	5	2	3	5	3	4	1	4	1	1	5		4	1	5			3.3	(4x5) 20	(2x4) 8	(3x3) 9	(3x2) 6	(6x1) 6	49	2
Helicopter Crash - Offsite									1																	(1x5) 5				5		
Helicopter Crash - Onsite									1													2			1.5	(1x5) 5	(1x4) 4				9	
Unauthorized Entry									1																	(1x5) 5				5		
Motor Vehicle Accident																					1					1.0	(1x5) 5				5	
Air Craft										1											1					1.0	(2x5) 10				10	

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Mass Casualty Hazmat Incident >=5 victims	1	1		3	3	3	1	1		1	1		2			1				5	1	1.8	(8x5) 40	(2x4) 8	(3x3) 9		(1x1) 1	58	1	
Small Casualty Hazmat Incident <5 victims	2	4		2	1	3	3	1	2			1		2			2			5	2	2.3	(3x5) 15	(6x4) 24	(2x3) 6	(1x2) 2	(1x1) 1	38		
Chemical Exposure, External	3	2	2	4		2	3	3		4	4	2	2	2		1	3		1	2		2.5	(2x5) 10	(7x4) 28	(4x3) 12	(3x2) 6		56	2	
Small-Medium Sized Internal Spill		5					3	1	4	5	3	2		1	1						3	2.8	(3x5) 15	(1x4) 4	(3x3) 9	(1x2) 2	(1x1) 1	31		
Large Internal Spill			3		4		3	1	4			1			1				2			2.4	(3x5) 15	(1x4) 4	(2x3) 6	(2x1) 2		27		
Terrorism, Chemical		3		5	1		3	3	3	3	1	3	1		1	5				1	5	2.7	(5x5) 25		(6x3) 18		(3x1) 3	46	4	
Radiologic Exposure, Internal	5		5	3		5	3	3	1		3	4	1		1	2				3	4	3.1	(3x5) 15	(1x4) 4	(5x3) 15	(2x1) 2	(3x1) 3	39		
Radiologic Exposure, External	4	5	1	3		5	2	3	2		5	4	1	3	1	4	4		3	3		3.1	(3x5) 15	(2x4) 8	(5x3) 15	(4x2) 8	(3x1) 3	49	3	
Terrorism, Radiologic				1	2		1	3	2		2			1		3	5			1	4	2.3	(4x5) 20	(3x4) 12	(2x3) 6	(1x2) 2	(1x1) 1	41	5	
Hazmat Exposure, External					4																	4.0				(1x2) 2		2		
Hazmat Exposure, Internal			4		5																	4.5				(1x2) 2	(1x1) 1	3		

Weighted Summary 2017 KET HC Regional HVA

	Natural	Technological	Human	Hazardous Material
1	Tornado	Electrical Failure	MCI: Trauma	Mass Casualty Hazmat Incident >= 5 victims
2	Severe Thunderstorm	Information Systems Failure	Bomb Threat	Chemical Exposure: External
3	Ice Storm	Communications Failure	MCI: Medical/Infectious	Radiological Exposure: External
4	Snow Fall	Generator Failure	Active/Potential Shooter	Terrorism: Chemical
5	Epidemic	Flood, Internal	Hostage Situation	Terrorism: Radiological

MCI: Mass Casualty Incident