

2018 Knox/East Tennessee Healthcare Coalition Hazard Vulnerability Assessment

Assessment compiled from HVAs from KET Coalition Participating Hospitals and input from the KET Coalition Members including our CMS regulated partners (Home Health, Hospice, Long Term Care, Ancillary/Outpatient/Surgical Centers, and Dialysis)

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.

2018 KET HC Regional HVA

	Blount Memorial	Claiborne Co	ETCH	Ft. Loudon	Ft. Sanders	Jefferson Memorial	Jellico	Lafollette Med Center Lakeway	LeConte	Methodist	Morristown Hamblen	Newport Med Center	North Knoxville	Parkwest	Penninsula	Physicians Regional	Roane County	Scott County	Sweetwater	Turkey Creek	UTMC	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			4										2.7	(2x5) 10	(2x4) 8	(2x3) 6	(2x2) 4		28		
Sewer Failure (pump station fails)		2			4	4	3	5	2													3.1		(3x4) 12	(1x3) 3	(2x2) 4	(1x1) 1	20		
Sewer Failure (internal pump failure)		2			4	4	3		1			1										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		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								2.4	(3x5) 15	(4x4) 16	(2x3) 6	(1x2) 2	(1x1) 1	30	5	
Structural Damage		3	5	2	4	3		2	2													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									3.4	(1x5) 5	(2x4) 8	(1x3) 3	(1x2) 2	(3x1) 3	21		
Transportation Failure		2							1			5										3.3	(1x5) 5	(1x4) 4			(2x1) 2	11		
Internet Outage									1												4	2.5	(1x5) 5			(1x2) 2		7		
Electromagnetic Pulse																						2		(1x4) 4				4		
Sprinkler System Failure																					1	1	(1x5) 5					5		
Major Utility Disruption																			1			1	(1x5) 5					5		

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	Blount Memorial	Claiborne Co	ETCH	Ft. Loudon	Ft. Sanders	Jefferson Memorial	Jellico	Lafayette Med Center	Lakeway	LeConte	Methodist	Morrisstown Hamblen	Newport Med Center	North Knoxville	Parkwest	Pennington	Physicians Regional	Roane	Scott County	Sweetwater	Turkey Creek	UTMC	Average Ranking	# (1) x 5	# (2) x 4	# (3) x 3	# (4) x 2	# (5) x 1	Adjusted Weighted score	Adjusted Ranking	
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											4.3		(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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	Blount Memorial	Claiborne Co	ETCH	Ft. Loudon	Ft. Sanders	Jefferson Memorial	Jeffico	Lafayette Med Center	Lakeway	LeConte	Methodist	Morrisdown Hambien	Newport Medical Center	North Knoxville	Parkwest	Peninsula	Physicians Regional	Roane Med Center	Scott County	Sweetwater	Turkey Creek	UTMC	Average Ranking	# (1) x 5	# (2) x 4	# (3) x 3	# (4) x 2	# (5) x 1	Adjusted Weighted Score	Adjusted Ranking
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 2018 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