## **OVA** sample

Below are the results from an organization that completed an outcomes-based vulnerability analysis (OVA) tool, which was developed by the author. This tool promotes a more in-depth analysis than a traditional hazard and vulnerability assessment.

Outcomes vulnerability analysis—Example																							
*0=Not Applicapable; 1=Low; 2=Moderate; 3=High						Primary outcomes																	
Category	Hazard*	Impact (0-3)*	Probability (0- 3)*	Risk score (Impact* Probability)	/	//	Mas Tri	grio lei	sed st	2010	gen expessive thereise	STOOTHE WE	Struct	and defended	Safet Sales	Sept Sept	aute roots	atie statedate	are de la constante de la cons	patients for	State Line	part of the state	
Natural Disasters										- 1													
	Tomado	3	2	6	х						х	х	х	х	х	х	х	х		х	х	х	
	Ice/blizzard	2	2	4	х							х	x	x	х		x		x	x	x	x	
	Earthquake	3	1	3	х						×	×	х	х	х	х		х		х	х	х	
	Flood	3	3	9	x		х				×	х	х		х	х	х	х	х	х	х	х	
	Epidemic	2	3	6		х	х				×		х				х	х		х	х	х	
	Pandemic^	3	2	6		x	х				×		x				x	×		х	x	х	
Technological																							
	Utility interruption	2	2	4		х							х	Х	Х	Х	Х				х	Х	
	Dam inundation	3	3	9	×	x						×	x	×	x	×	×	×		×	×		
	Mass transit incident	3	3	9	×								х				×	×		×	×	х	
	Hazmat release—fixed			000															т				
	facility	0	0	0																			
	Cyber threat	2	1	2								×	х	х	х		×			х	х	х	
	Hazmat				×	x		x		x		x	x			x	x	x	П	х	x	×	
	release—transportation	3	3	9	,			^		^_						^	^	_ ^	┺	^	Î.	^	
Civil disturbance													×							×	×	×	
	Labor action	2	1	2													×				- 0		
	Riots	3	1	3	x							х	х						х	х	х	×	
	High-occupancy fire	3	1	3	×	х		х			×	×				×		×			×	х	
	Structural collapse	2	1	2	x						х	х	×	×	х	x	x	×		×		х	
Terrorism	Mass shooting	3	3	9	х						х		х				х	×	х	х	х	х	
	Chemical	3	2	6		х		x		×	×	х	×			x		×	П	×	х	х	
	Biological	3	1	3		х	х				×		х				х	х	х	х	х	х	
	Nuclear accident	0	0	0					1		î .												
	Explosive	3	2	6	×			х		х			х				х	×		х	х	х	
			Total outcom	ne relative risk	72	46	24	24	0	21	53	56	98	30	39	51	80	86	28	94	99	90	

The total outcomes relative risk figures are summarized in the bar chart below. Scores were assigned to each of the potential outcomes (x-axis) in relation to the high-risk hazards obtained from the hospital's hazard vulnerability analysis (y-axis). The aggregated percentages identify which outcomes are highest priority for scarce resource planning by the scare resource management team across all hazards. For this organization, financial impacts, supply and labor shortages, and security issues are the vulnerabilities that score highest—regardless of the type of event. It's important to note that this is a subjective exercise and each hospital's results will be different. The scare resource management team must make a judicious decision about resource allocation for the outcomes with a lower score, such as mass trauma or infectious disease, based on the current environment.

