



The Johns Hopkins Office of Critical
Event Preparedness and Response

**THE JOHNS HOPKINS INSTITUTIONS
MD/DC/VA REGIONAL
HAZARD VULNERABILITY ANALYSIS
2012**

The Johns Hopkins Institutions (JHI) is comprised of the Johns Hopkins Medical Institutions (JHMI) and the Johns Hopkins University (JHU).

An important component of disaster mitigation and preparedness activities within Johns Hopkins Institutions is an analysis of its inherent vulnerabilities and the potential hazard the region may face. The estimated probability of occurrence of the event is then plotted on a grid against the magnitude of impact that the event would have on the business operations of the Johns Hopkins Institutions (vulnerability). The threat assessment matrix is then used as a planning platform for Johns Hopkins planning.

It is difficult to directly compare the likelihood of an occurrence of a natural or man-made disaster to that of a terrorist or criminal attack. For example, terrorist attacks against the U.S. are relatively rare compared to hurricanes, transportation accidents, and structural collapses. Therefore separate definitions for the likelihoods of these types of events have been created *as guidance* so that they may be plotted on the same table, allowing the reader to view in parallel the estimated likelihood of event within a category with those in the other categories.

	Natural Disaster	Man-made Disaster	Terrorist Attack	Infectious Disease Outbreak
High Probability	Potential to occur multiple times/yr in region	Potential to occur multiple times/year	Has occurred in US in last year	Potential to occur multiple times/yr in the US, or WHO Phase 6 disease
Mod High Probability	Occurs about once every 1-2 years	Occurs about once every 1-2 years	Has occurred in US (or to one of its allies) in last 10 years	Occurs about once every 1-5 years, or WHO Phase 5 disease
Mod Low Probability	Occurs once every 10 years	Occurs once every 10 years	Has occurred in the US or world in last 20 years	Occurs about once every 10-20 years, or WHO Phase 4 disease
Low Probability	Does not typically occur in region	Does not typically occur in region	Unlikely to occur due to difficulty of attack	Unlikely to affect the US, or WHO Phase 1-3 disease

It is important to note that this assessment has been based on public information and expert opinion of a group of specialists. The hazard matrix must be frequently reassessed, as new information, world events, improved terrorist capabilities, and countermeasures at the federal and local level may change the likelihood of a disaster or attack occurring and its consequences. This document serves as guidance for individual entities within JH; each affiliate must adjust their own HVA's as appropriate. As this is a MD/DC/VA regional HVA, it is not an accurate representation of hazards/vulnerabilities for JHI's newest member, All Children's Hospital in St. Petersburg, FL.

JOHNS HOPKINS INSTITUTIONS HVA

Black JH Health Care System

Blue – JH University

Probability of Occurrence	Mod High	<ul style="list-style-type: none"> • Severe Storms • Extreme heat/cold • Fire • Assault on Campus • Severe Thunderstorm 	<ul style="list-style-type: none"> • Utility failure • Major transportation accident • Mild/mod pandemic influenza • Snow/ice heavy event 	<ul style="list-style-type: none"> • Hurricane (All Children's, FL)
		<ul style="list-style-type: none"> • Violent crime incident (city mass shooting) • Attack on a symbolic structure in DC Union labor strike • Medical Emergency • Utilities Outage (short term) • Vehicular Incident (on-campus) 	<ul style="list-style-type: none"> • Urban fire • Structural collapse (building or bridge) • Hazmat accident • Natural epidemic • Flood • Conventional explosive device • Mass transit event • Suicide bomber, or other explosive event • Aviation/airport event • Blizzard or snow emergency • Food-borne Illness Event • Utilities Outage (Intermediate Term) 	<ul style="list-style-type: none"> • Non-contagious biological vent (anthrax, botulinum, ricin) • Severe pandemic influenza
	Mod Low	<ul style="list-style-type: none"> • Civil disturbance • Prison incident • Tornado • Earthquake • Suspicious Package • Strike/Work Stoppage 	<ul style="list-style-type: none"> • Information system attack • Food contamination incident • Attack on or accident with a chemical facility or chemical tanker • Hurricane • Terrorist attack on Baltimore Port • On-site helicopter crash • Baltimore tunnel event • Earthquake • Fire (large scale) • Biological Emergency • Chemical Emergency • Radiological Emergency • Severe Weather 	<ul style="list-style-type: none"> • Chemical event • Dirty bomb/RDD • Critical infrastructure event (e.g., water reservoir, power grid, telecommunications, cyber attack) • Major stadium event (e.g collapse, bomb) • Direct attack on JH • Shooter on campus
		<ul style="list-style-type: none"> • Terrorist attack in DC • Soil movement • Wildfire • Severe drought • Bomb Threat 	<ul style="list-style-type: none"> • Bomb Threat • Mass Transportation Outage • Suicide (on campus) 	<ul style="list-style-type: none"> • Nuclear power plant event • Nuclear weapon event • Contagious biological event (smallpox, plague) • Loss of JHI infrastructure • Fire (widespread) • Explosion • Active Shooter/Homicide (on campus) • Hostage Situation (on campus) • Food/Water Contamination • Civil Disturbance/Riot on or near campus • Mass Casualty Event (on campus) • Utilities Outage (prolonged) • Other Infrastructure Outage (prolonged) • Earthquake (with significant structural damage) • Pandemic (Severe)
	Low	Low	Moderate	High
Magnitude of Medical/Business Operations Impact				

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