

**SURGE  
SORT  
SUPPORT**

**DEEP center**  
Disaster & Extreme Event Preparedness

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**SURGE  
SORT  
SUPPORT**

FLORIDA DEPARTMENT OF  
**HEALTH**

**DEEP center**  
Disaster & Extreme Event Preparedness

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**SURGE SORT SUPPORT**

Featuring:  
***Continuous Integrated Triage***

**DEEP center**  
Disaster & Extreme Event Preparedness

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**SPECIAL SITUATIONS**



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**SPECIAL SITUATIONS**

**THINK: HUMAN BEHAVIOR**

How do RESPONDERS act?

How do RESPONDERS react?

How do SURVIVORS respond?



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**HAZARD VULNERABILITY ASSESSMENT USING PIVOT:  
RISK TO THE POWER OF OUTRAGE**



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**HVA USING PIVOT** SURGE SORT SUPPORT

**Hazard Vulnerability Assessment using PIVOT**

**Impact + Vulnerability**

Hazard

DEEP CENTER

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**HVA USING PIVOT** SURGE SORT SUPPORT

**Hazard Vulnerability Assessment using PIVOT**

**Probability** x **Impact + Vulnerability**

Hazard

Risk

DEEP CENTER

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**HVA USING PIVOT** SURGE SORT SUPPORT

**Hazard Vulnerability Assessment using PIVOT**

**Probability** x **Impact + Vulnerability** = **Outrage**

Hazard

Risk

**Terror**

DEEP CENTER

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**HVA USING PIVOT** SURGE SORT SUPPORT

**Hazard Vulnerability Assessment using PIVOT**

$$(\text{Probability} \times \text{Impact} + \text{Vulnerability})^{\text{Outrage}} = \text{Terror}$$

Hazard (under Impact + Vulnerability)  
 Risk (under Probability x Hazard)

**Terror: Risk Raised to the Power of Outrage**

DEEP CENTER

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**HVA USING PIVOT** SURGE SORT SUPPORT

**Risk: Natural Disasters in Minnesota**

Risk		Disaster Type
HIGH	LOW	
X		Pandemic disease
	X	Tropical storm
	X	Hurricane
X		Tornado
X		Wildfire
X		Flood
	X	Mudslide/landslide
	X	Earthquake
	X	Tsunami
	X	Volcano
	X	Avalanche
X		Blizzard

DEEP CENTER

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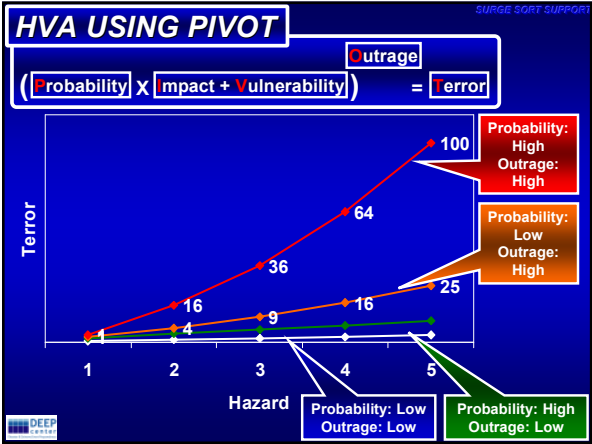
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**SPECIAL SITUATIONS**

SURGE SORT SUPPORT

### What is Mass Panic?

Group phenomenon in which intense, contagious fear causes individuals only to think of themselves, causing harm to others as they act to save themselves.



Source: Ursano et al., 2003; Shultz, 2004

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**SPECIAL SITUATIONS**

SURGE SORT SUPPORT

### Public Fear versus Panic Behavior



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**SPECIAL SITUATIONS**

SURGE SORT SUPPORT

### Public Fear versus Panic Behavior

**Panic is rare in disasters.**

**Panic did not occur during:**

- Israeli Scud attacks
- Tokyo sarin gas attacks
- Oklahoma City bombing
- Evacuation of World Trade Center

**Training and simulation decrease risk.**

**Accurate information decreases risk.**



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**SPECIAL SITUATIONS** SURGE SORT SUPPORT

**Public Fear versus Panic Behavior**



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The Station Nightclub Fire  
West Warwick, Rhode Island

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SURGE SORT SUPPORT

**THE FORCE OF FEAR:  
FEAR OF EXPOSURE**

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**SPECIAL SITUATIONS** SURGE SORT SUPPORT



**Manage Potentially Exposed Patients**

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**THE FORCE OF FEAR:  
FEAR OF  
DECONTAMINATION**



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**Manage Patients Needing  
Decontamination**

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**THE FORCE OF FEAR:  
ISOLATION,  
QUARANTINE,  
SOCIAL DISTANCING**



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**SPECIAL SITUATIONS** SURGE SORT SUPPORT

**SARS, Toronto, 2003**

**Isolation, Quarantine, Shielding,  
Social Distancing**



ER Physician  
North York General Hospital  
Toronto, Canada, 2003

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**SPECIAL SITUATIONS** SURGE SORT SUPPORT

**SARS, Toronto, 2003**

**EMERGENCY DEPT.  
IS CLOSED UNTIL  
FURTHER NOTICE**

DEEP

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**SPECIAL SITUATIONS** SURGE SORT SUPPORT

**SARS, Toronto, 2003**

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**SPECIAL SITUATIONS**

SURGE SORT SUPPORT

SARS, Toronto, 2003



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**SPECIAL SITUATIONS**

SARS, Toronto, 2003



AP/WIDE WORLD PHOTOS/SCIP  
PHOTOGRAPHY PROVIDED  
Jacob Krugler, a respiratory physician at Mount  
Sinai General Hospital in Toronto, Canada,  
displays a protective suit that is worn when  
performing procedures on a SARS patient.



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**SPECIAL SITUATIONS**

SURGE SORT SUPPORT

Questions?

Email Questions?  
[jshultz1@med.miami.edu](mailto:jshultz1@med.miami.edu)  
[ask@mauricearamirez.com](mailto:ask@mauricearamirez.com)



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SPECIAL SITUATIONS

SURGE SGRF SUPPORT

Break



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