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A HOMELAND SECURITY
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National Center for the Study of
PREPAREDNESS AND CATASTROPHIC EVENT RESPONSE

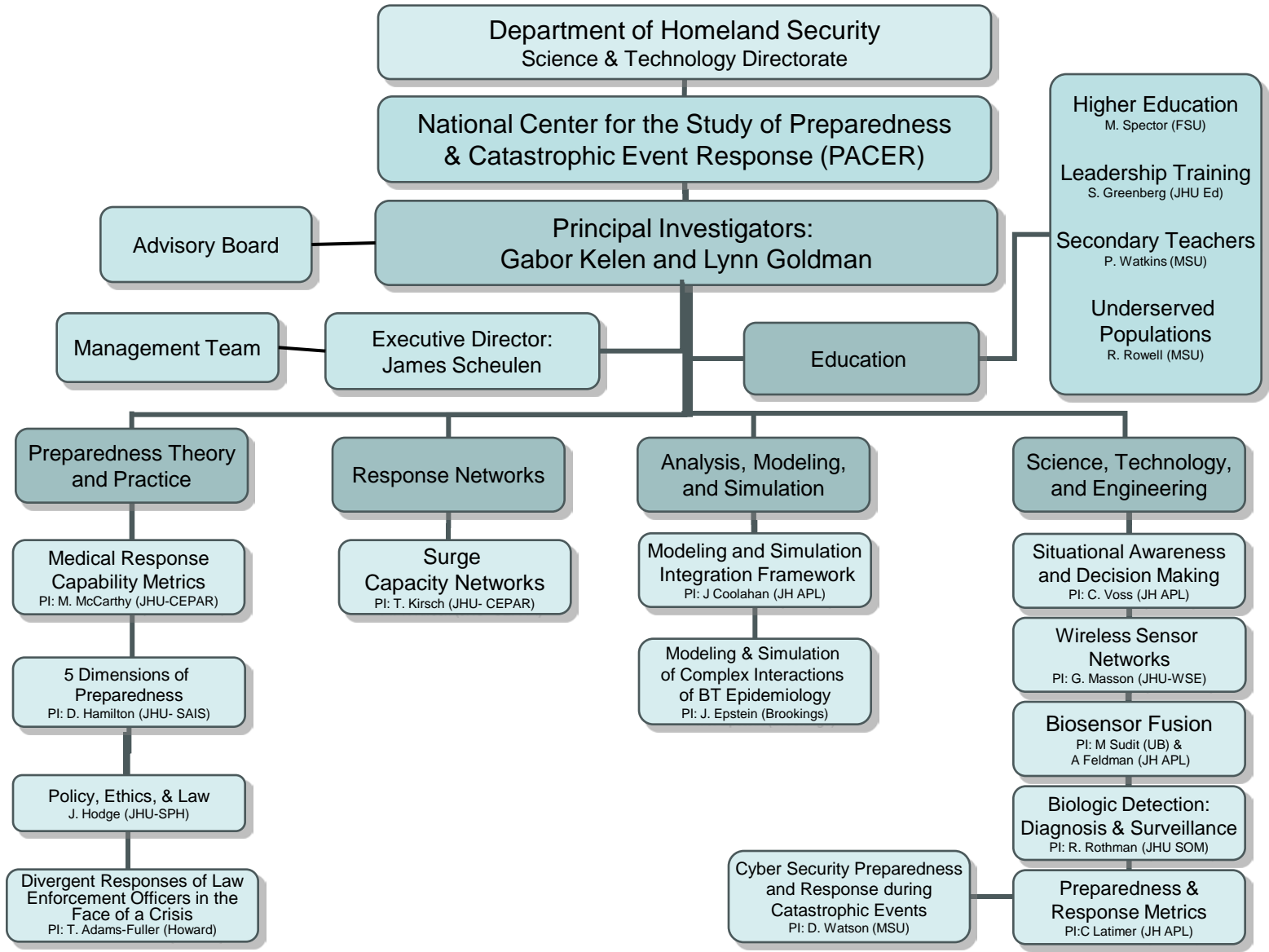
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Science of Surge

PACER Organization



Scientific Basis for Medical Surge

- One of 37 associated target capabilities of the Nat Prep Goals
- HSPD 21 major focus
- Emergency Support Function 8
- IOM Major Focus
- HHS HPH JAWG Major Focus
- Recent Pronouncement by the Secretary

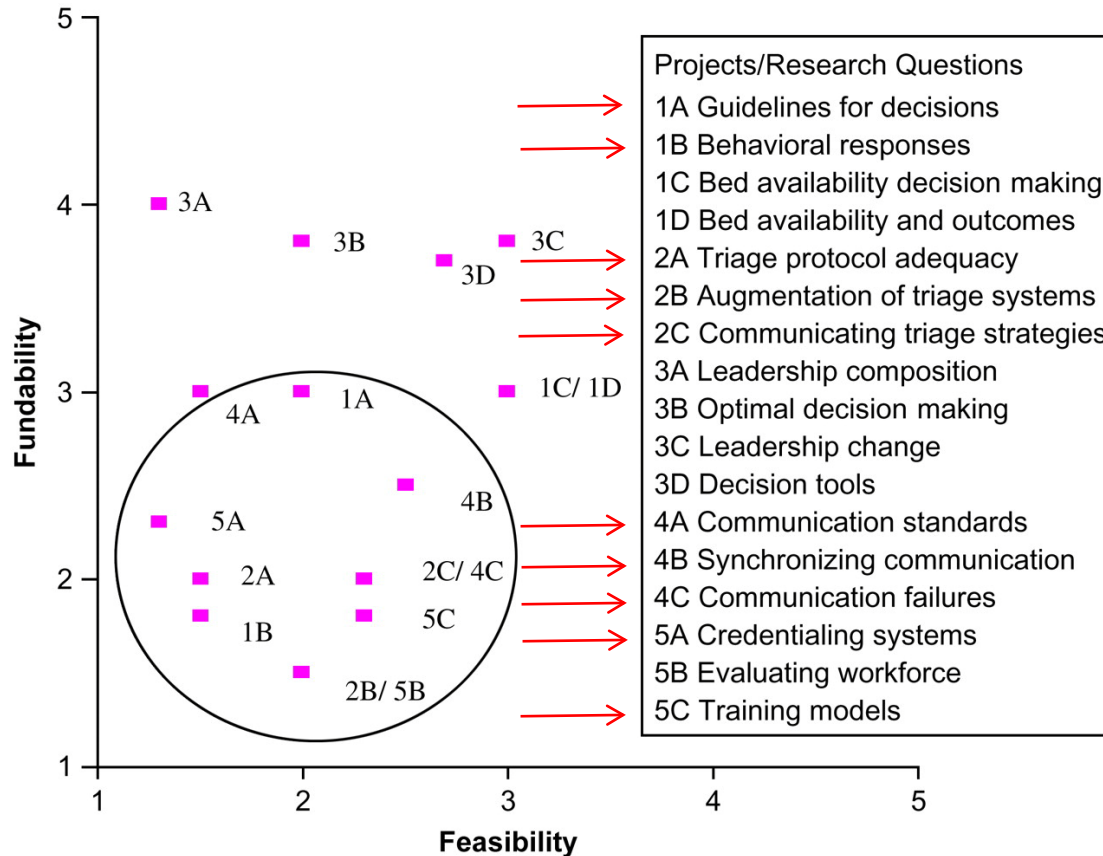
Current Surge Projects & Results

Science of Surge Conference

1. May 2006, San Francisco
2. G. D. Kelen, M.D. Course Director
3. Published Proceedings Nov AEMJ 2006
4. >30 publications
5. Richard Carmona—Keynote Speaker
6. Initiated Work on Surge Capacity Metrics



From the Science of Surge Conference



$$\text{MRC} = \frac{\text{System}_{(\text{Integrity})} * \text{Space}_{(\text{size} * \text{quality})} * \text{Staff}_{(\text{numbers} * \text{skill})} * \text{Supplies}_{(\text{volume} * \text{quality})}}{\text{Event}_{(\text{type} * \text{scale} * \text{duration})} * \text{Resource}_{(\text{demand} * [\text{consumption} + \text{degradation}])}}$$

Components of Medical Surge Capacity

System	Space	Staff	Supplies
Planning	Facilities	Numbers	Biologics
Community Infrastructure	Medical Care	Capability/Skill Set	Respirators
Government	Storage	Expertise	PPE
Informal Networks	Laboratory	Stamina	Standard Supplies
Public Health	Mortuary	Psyche	Food and Water
Incident Command	Housing of Staff		
All Levels			
HEIC	Quality		
Regional Co-operation	Size		
Multiagency	Capability		
Interhealth System			
Communications & Information Flow			
Supply Chain Distribution			
EMS/First Responders			
Continuity of Operations			
Cyber Security			

(Kelen & McCarthy, AEMJ: 13:1089-)

Hospital Readiness WALEX*

1. Determine Metrics for Health System Preparedness in the model

$$= \text{Planning} * \text{System}_{(\text{integrity})} * \text{Space}_{(\text{size} * \text{quality})} * \text{Staff}_{(\text{numbers} * \text{skill})} * \text{Supplies}_{(\text{volume} * \text{quality})} \\ \text{Event}_{(\text{type} * \text{scale} * \text{duration})} * \text{Resource}_{(\text{demand} * [\text{consumption} + \text{degradation}]})$$

2. Special Issue in *Journal of Disaster Medicine and Public Health Emergencies*
 - June 2009

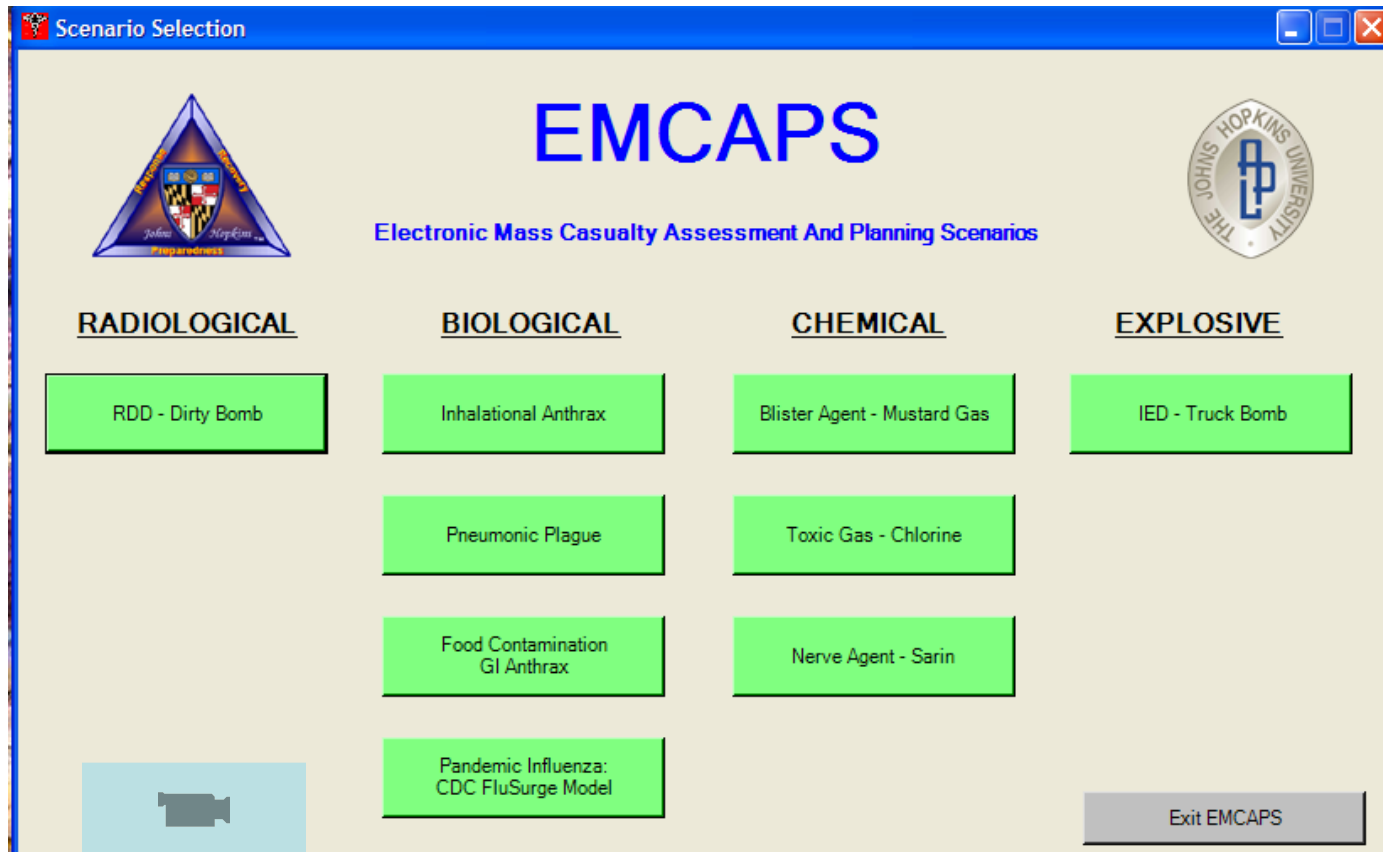
* Conference and Publication Funded by AHRQ

Health System Readiness WALEX Pending Publications

Macintyre , A	Emergency Management: Role in Preparedness
Kelen	Surge Capacity from Reverse Triage
Hick, J	Refining Surge Capacity
Hodge, J*	Legal Issues Related to Hospital Preparedness
Bierenbaum, F	Business Continuity Hospitals During Disasters
Rothman et al.	Laboratory Response Networks
Pines et al.	Public Health Syndromic Surveillance
Barbera et al.	Challenges of Hospital Emerg Management
McCarthy et al.	Health Care Emergency Management
Jenkins et al.	Review of existing Hosp Prep Instruments
Knebel & Phillips	National Strategy for Health System Readiness

Project 3. Predicting Surge

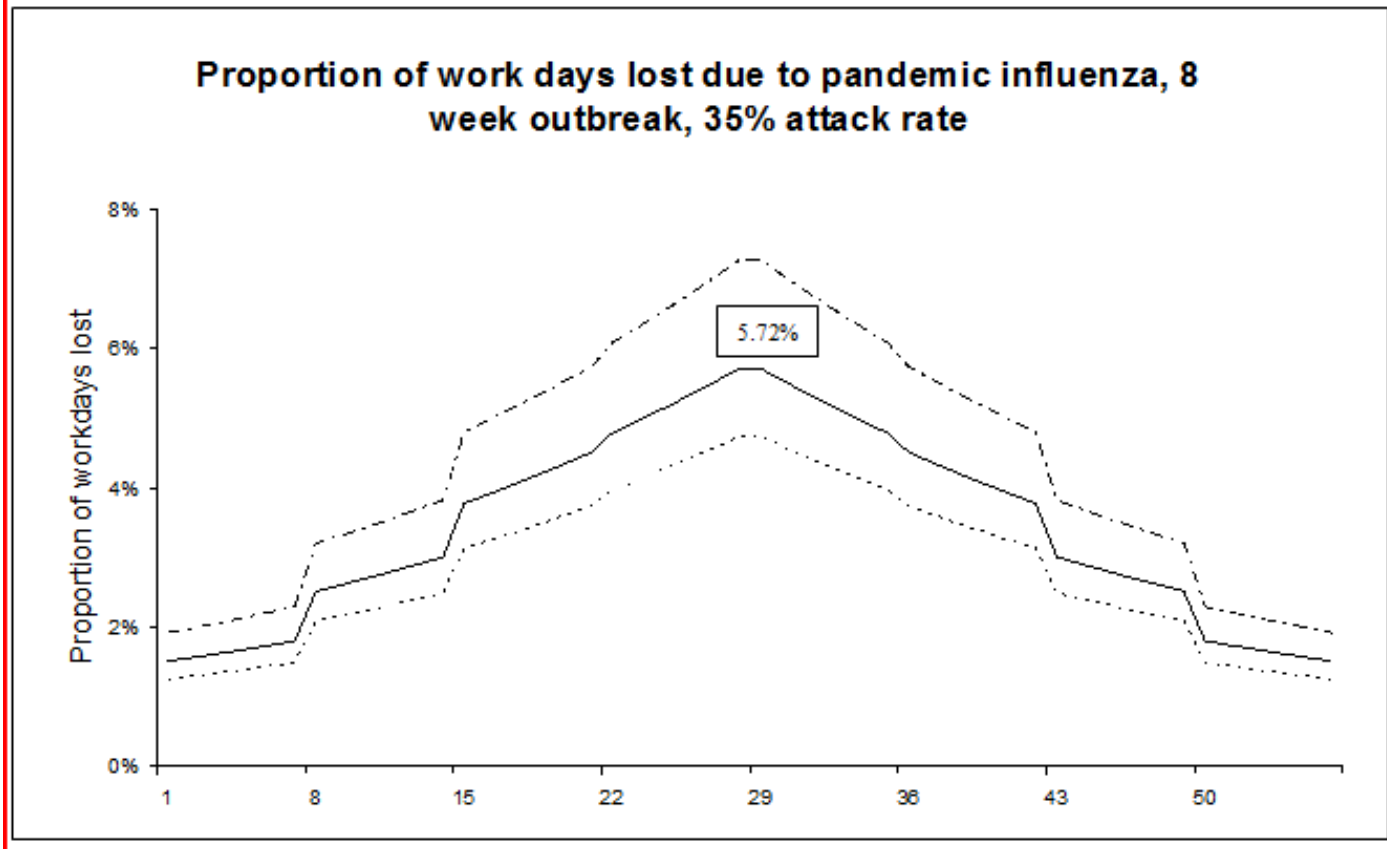
EMCAPS



Project 4. Operation Sustainability

Predicting Work Days lost in Pandemics

Figure 1. Distribution of workdays lost across the Institution during an 8-week, 35% attack rate wave



Project 5. Scarce Resources: MOU's

Model Memorandum of Understanding Between Hospitals during Declared Emergencies

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As of March 3, 2009

Model Memorandum of Understanding Among Hospitals during Declared Emergencies

This Memorandum of Understanding (MOU) is made and
entered into as of this ____ day of _____ in the
year _____, by and between

(list hospitals that are parties to the MOU)

Each of these hospitals is a party to this MOU and
collectively they constitute the “Hospital Mutual Aid Network”
for the purposes of this MOU.

NOW, THEREFORE, the parties agree as follows:

•General Provisions

I.1.1 **Definitions.** As used in this MOU, these terms
shall be defined as follows:

(1) “**Contractor**” means a
healthcare professional who
provides healthcare services at a
hospital, but is not under the
direct control of the hospital and
exercises independent judgment
and discretion.

(2) “**Designated representative**”
means an individual and at least
one alternative designee

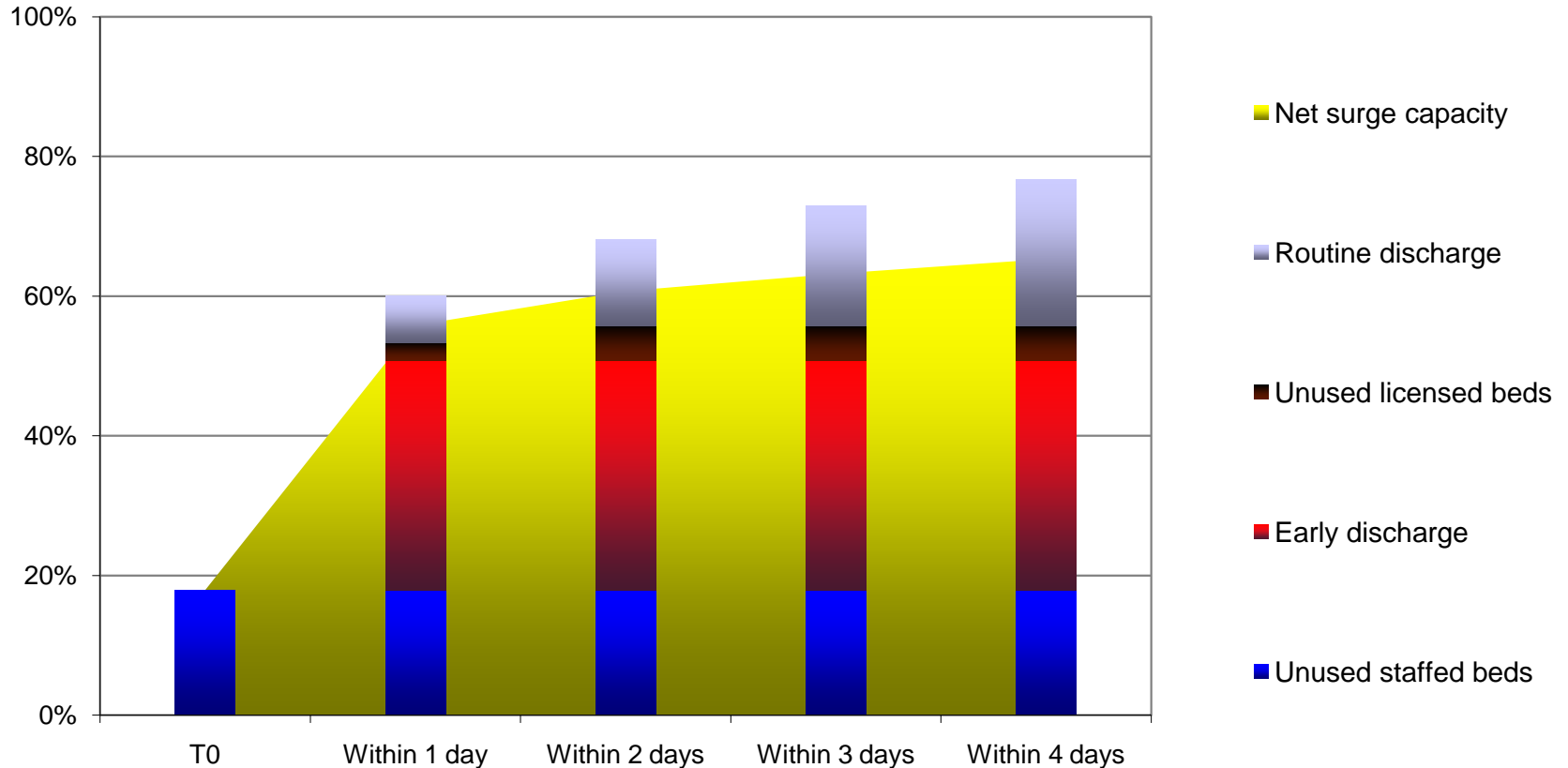
Reverse Triage Strategy for Scarce Resources



Project 6. Reverse Triage

Figure 1a. Potential Surge Capacity

Academic Center (N=658 total licensed study beds)



Project 6. Reverse Triage

Figure 1a. Potential Surge Capacity
 Academic Center (N=658 total licensed study beds)

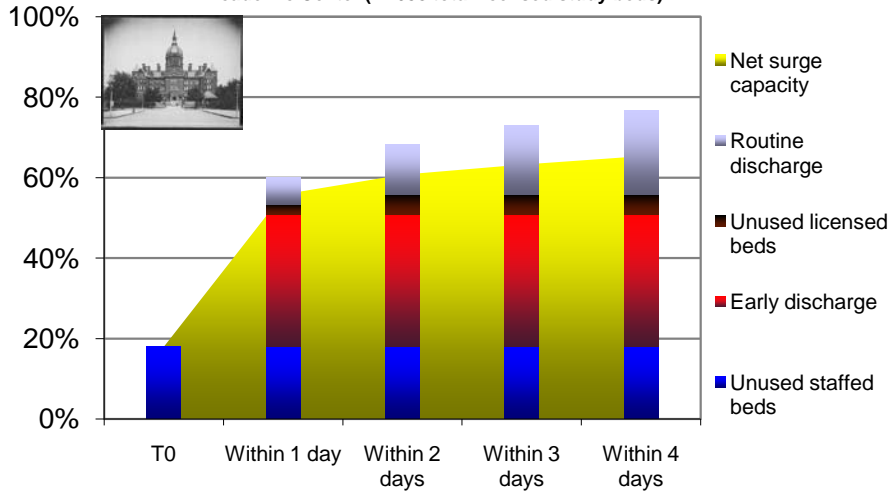


Figure 1b. Potential Surge Capacity
 Teaching Medical Center (N=242 total licensed study beds)

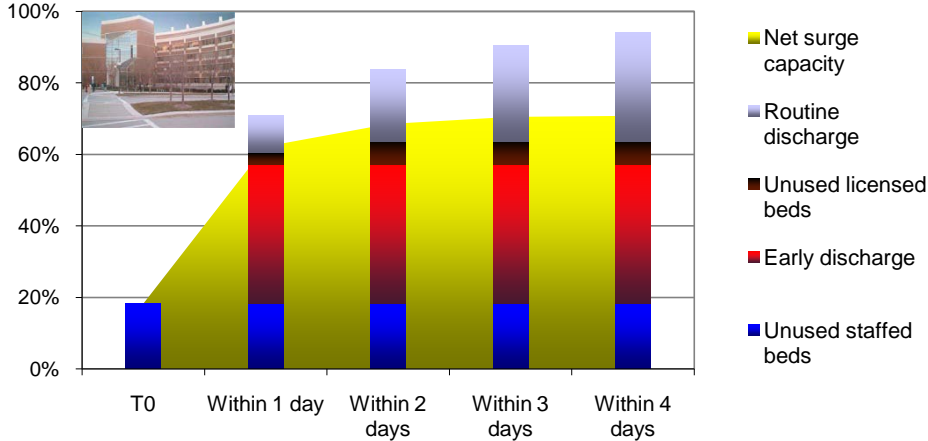
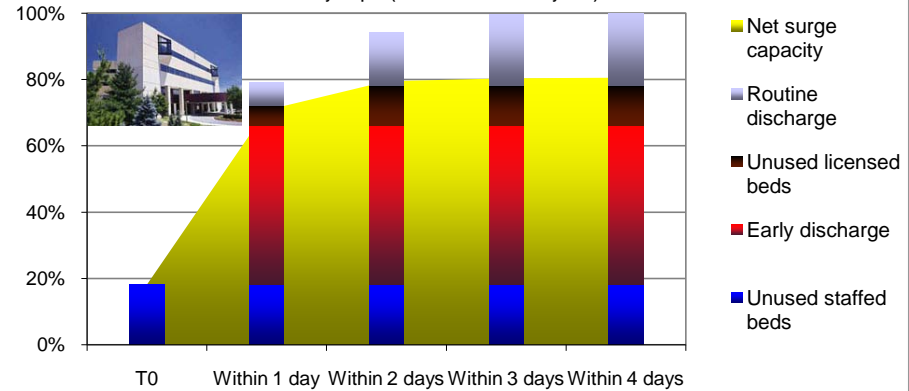
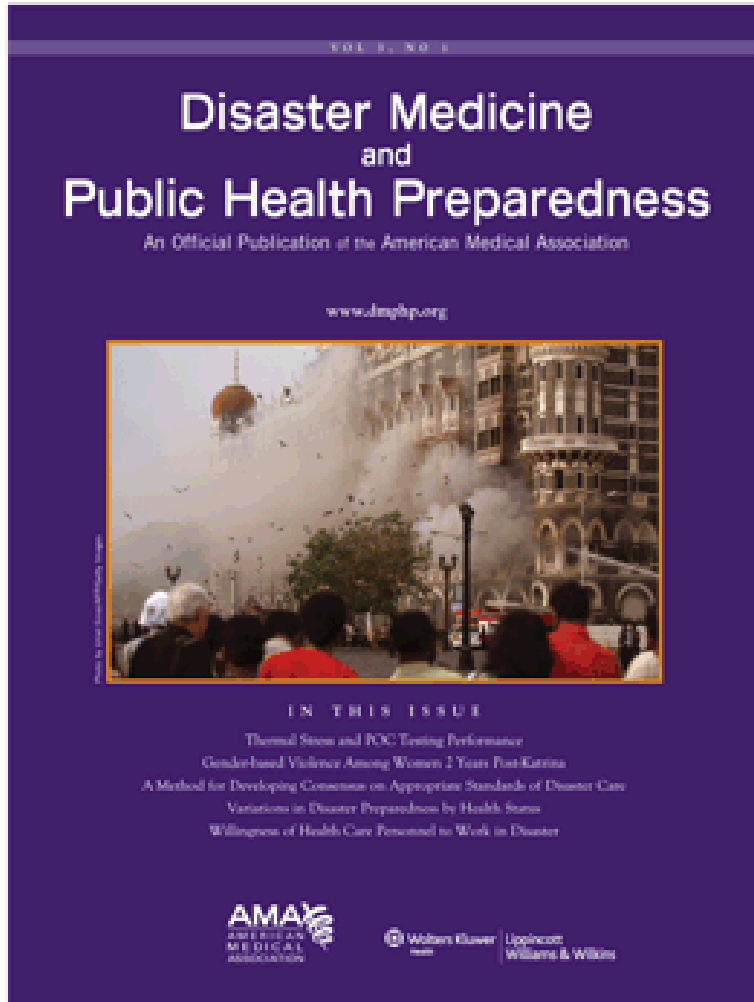


Figure 1c. Potential Surge Capacity
 Community Hospital (N=170 total licensed study beds)





World Health Day 2009

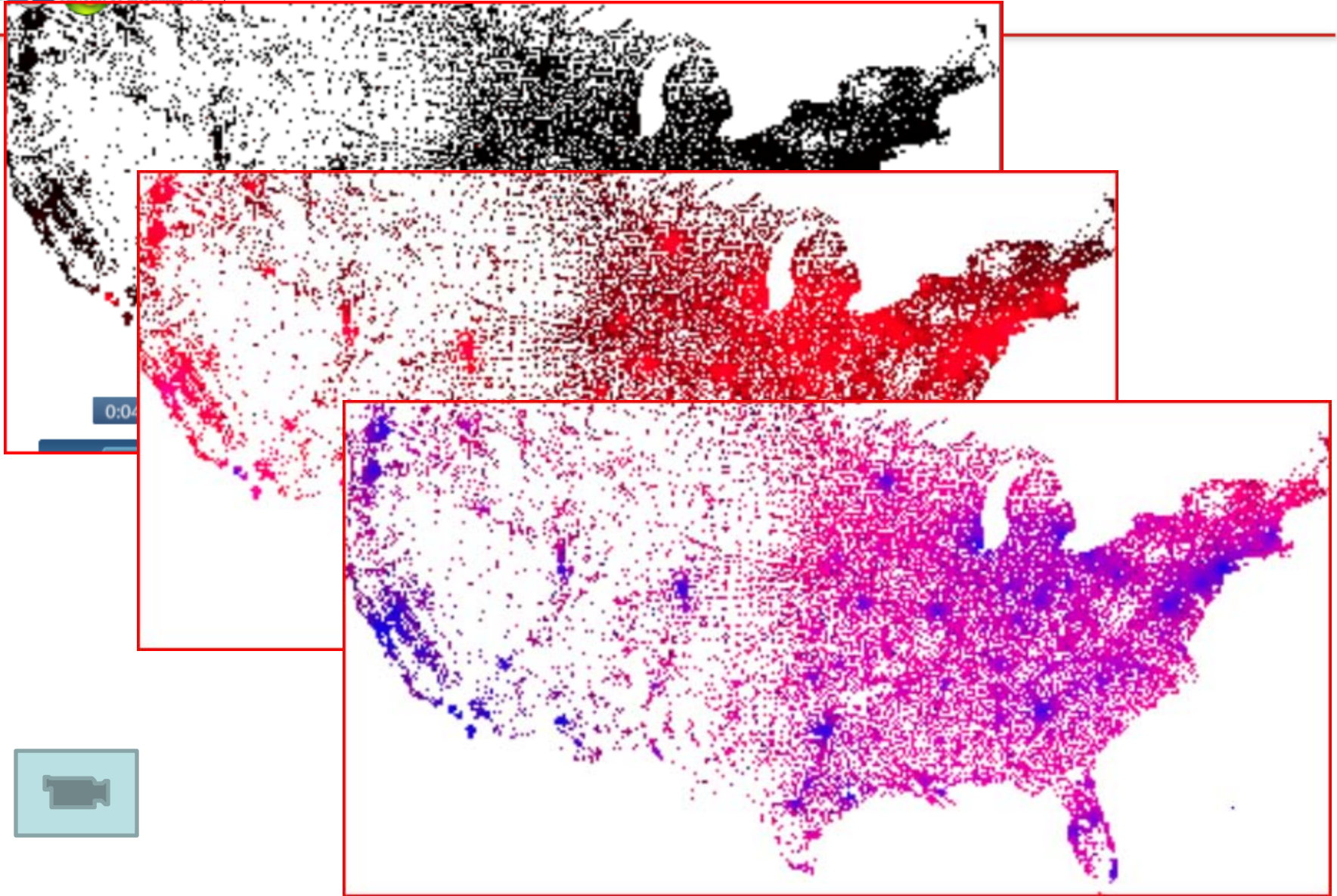
Save lives. Make hospitals safe in emergencies



safehospitals.info

World Health Day 2009 focuses on the resilience and safety of health facilities and the health workers who treat those affected by emergencies. Events around the world will highlight successes, advocate for safe facility design and construction, and build momentum for widespread emergency preparedness.

April 7th, 2009



PACER Projects (Domain A)

1. EMCAPS II
2. Pharmaceutical Supply Chain Management
3. Surge Metrics II
4. Legal: Changing Standards of Care
5. Estimation of National Acute Care Surge: Risk of Altered Standards of Care
6. Triage Tool for Accurate Resource Utilization
7. KHS lead situation awareness for surge

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Obama to Nominate Esther Brimmer of SAIS to State Department Post

By Felisa Neuringer Klubes
SAIS

President Barack Obama has announced his intent to nominate Esther Brimmer, a scholar at SAIS, to serve as assistant secretary of state for international organizations. Brimmer is currently the deputy director and director of research at SAIS' [Center for Transatlantic Relations](#) and a professorial lecturer.

At the State Department, Brimmer will oversee policy relating to U.S. relations with the United Nations, and other multilateral issues. Her responsibilities will include leading a bureau with posts at U.N. organizations in seven cities: New York, Geneva, Paris, Rome, Vienna, Montreal and Nairobi.

Obama also announced the appointments of Philip H. Gordon as assistant secretary of state for European and

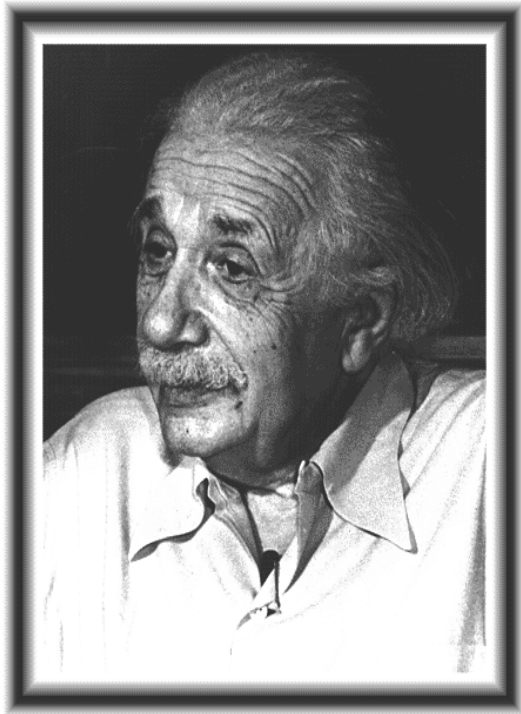


Brimmer

Five Dimensions of Homeland and International Security,

Published a series of papers in a book, edited by Dr. Esther Brimmer (SAIS:2008).

“An Idea That Is Not Absurd,
Has No Chance”



A handwritten signature of Albert Einstein in black ink on a light blue background. The signature is written in a cursive style and reads "A. Einstein".