#### Access speaker bios here:

https://files.asprtracie.hhs.gov/documents/crisis-standards-of-care-and-covid-19-webinar-speaker-bios.pdf

Access the webinar here: <a href="https://attendee.gotowebinar.com/">https://attendee.gotowebinar.com/</a> recording/5056670880212037383

Access the Q and A here: <a href="https://files.asprtracie.hhs.gov/documents/asprtracie-ta-csc-and-covid-19-webinar-qa.pdf">https://files.asprtracie.hhs.gov/documents/asprtracie-ta-csc-and-covid-19-webinar-qa.pdf</a>

Access the transcript here: <a href="https://files.asprtracie.hhs.gov/documents/csc-and-covid-19-transcript.pdf">https://files.asprtracie.hhs.gov/documents/csc-and-covid-19-transcript.pdf</a>



HEALTHCARE EMERGENCY PREPAREDNESS
INFORMATION GATEWAY

## Crisis Standards of Care and COVID-19: What's Working and What Isn't

December 3, 2020

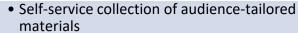


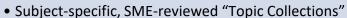
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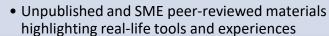


#### **ASPR TRACIE: Three Domains**













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- Area for password-protected discussion among vetted users in near real-time
- Ability to support chats and the peer-to-peer exchange of user-developed templates, plans, and other materials







**Moderator- Meghan Treber, MS**ASPR TRACIE



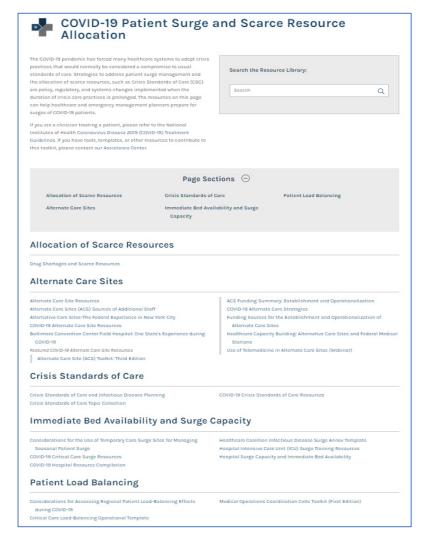
#### Resources

- ASPR TRACIE COVID-19 Page
  - COVID-19 Crisis Standards of Care Resources
  - COVID-19 Patient Surge and Scarce Resource
     Allocation
- ASPR TRACIE Crisis Standards of Care Topic Collection
- ASPR COVID-19 Page
- CDC COVID-19 Page
- Coronavirus.gov



# COVID-19 Patient Surge and Scarce Resource Allocation

https://asprtracie.hhs.gov/covid-19-patient-surge

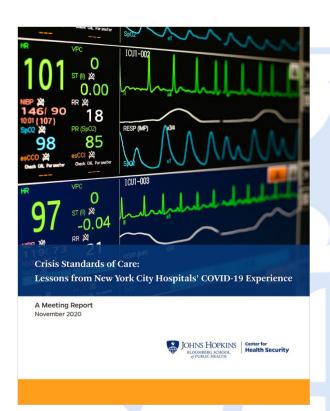


#### Crisis Standards of Care: Lessons from New York City Hospitals' COVID-19 Experience

12/3/20 Eric Toner, MD



Center for **Health Security** 





NYC Peak: April 3, 2020

- 1650 new hospital admissions/day
- Many reports of hospitals being overwhelmed, and conventional standards of care unable to be maintained
- HCWs forced to adjust in order to do the most good for the greatest number

### **Crisis Standards of Care (CSC)**

- Standard of care: "The level at which the average, prudent provider in a given community would practice. It is how similarly qualified practitioners would have managed the patient's care under the same or similar circumstances."
- Crisis standard of care: "A substantial change in usual healthcare operations and the level of care it is possible to deliver, which is made necessary by a pervasive (e.g., pandemic influenza) or catastrophic (e.g., earthquake, hurricane) disaster."

IOM. 2012. Crisis Standards of Care.



- Convene ICU physicians from hospitals across New York City
- Frankly discuss their experiences with implementation of CSC
- experts from outside NYC

#### **Approach**

- The Johns Hopkins Center for Health Security, in collaboration with New York City Health + Hospitals, convened a virtual working group in October 2020
  - 15 NYC ICU directors
  - 3 CSC experts
- 4 hours of semi-structured, facilitated discussion
- Chatham house rules
- Thematic analysis of notes

#### Themes that Emerged

- CSC plans did not align with the clinical realities
- The surge response was chaotic but often effective
- Interhospital collaboration was especially important
- Situational awareness of patient load and resource availability was a challenge for many clinicians
- Multiple CSC challenges existed, especially decision-making for triage or allocation of life-sustaining care
- Healthcare workers (HCW) were profoundly psychologically affected by dealing with CSC issues amid the extraordinary surge

#### **Looking Ahead**

- CSC planning must be more operational with more clinician involvement
- Clinicians must be taught that CSC involves making the best decision one can when in an unfamiliar situation that involves risk to the patient or provider
  - Not limited to ventilator triage or formal triage processes
- Revised CSC planning guidance is needed
- Clinicians and their legal advisors must resolve differences in understanding of legal aspects of CSC

#### Looking Ahead, con't

- In a crisis, a clear declaration is needed that a CSC context exists
  - At the hospital, hospital system, healthcare coalition, and jurisdictional levels
  - Specific clinical guidance about the scope of the declaration—which resources or processes it applies to
  - CSC plans must factor in that a timely declaration may not be made and include how to proceed without it
- Physician/hospital leaders need better situational awareness of patient load, resources, and changing guidance and policies,
  - They need to find effective ways to keep their staffs informed
  - Including both clinical and operational information-sharing among hospitals, across hospital systems, and across the city or state
- Triage decisions cannot wait for a cumbersome committee structure
  - Rapid decision processes must be developed that involve the treating physician as well as other physicians
  - Education is needed for those clinicians who are making such decisions and a process developed for them to engage another expert rapidly if possible

#### Looking Ahead, con't

- Need clarity on difference between triage decisions that hospital clinicians make on busy days and the shift in thinking and practice that is involved in CSC
- Further education needed on the spectrum of crisis care from conventional → contingency → crisis
  - Should be practiced in exercises
- Future pandemic planning should be integrated with accepted ICU futility guidance
- Planning for critical staff shortages is a high priority
- Need to find ways to engage families in essential end-of-life discussions which is much more difficult when they are barred from hospital





Must find ways to lessen the heavy emotional toll on HCWs caused by combined stress of the surge plus moral injury of CSC

### **My Co-Authors**

- Vikramjit Mukherjee, MD, Director, Bellevue Medical Intensive Care Unit
- Dan Hanfling, MD, Vice-chair, IOM Committee on Guidance for Establishing Standards of Care for Use in Disaster Situations
- John Hick, MD, Member, IOM Committee on Guidance for Establishing Standards of Care for Use in Disaster Situations
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- Matthew Watson, Senior Analyst, Johns Hopkins Center for Health Security
- Laura Evans, MD, MSc, Medical Director, Critical Care, University of Washington Medical Center

#### **Read the Report**

https://www.centerforhealthsecurity.org/ourwork/publications/crisis-standards-of-care-lessons-from-newyork-city-hospitals-covid-19-experience



**John Hick, MD** Hennepin Healthcare



Risk of morbidity/mortality to patient increases

Recovery

• · · · · · · · · · · · · · · · · · · ·								
	Conventional	Contingency			Crisis			
Space	Usual patient care space fully utilized	Patient care areas re-purposed (PACU, monitored units for ICU-level care)			non-patient o	ged/unsafe or care areas etc.) used for		
Staff	Usual staff called in and utilized	Staff extension (brief deferrals of non- emergent service, supervision of broader group of patients, change in responsibilities, documentation, etc.)			unable to ade	unavailable or equately care for tients even with hniques		
Supplies	Cached and usual supplies used	Conservation, adaptation, and substitution of supplies with occasional re-use of select supplies			Critical supplies lacking, possible reallocation of life- sustaining resources			
Standard of care	Usual care	Functionally equivalent care			Crisis standa	ds of care <sup>a</sup>		
Normal operating conditions Indicator(s): Potential for contingency care <sup>b</sup>		Indicator(s): Potential for crisis standards of care				eme operating conditions		
Trigge Decision continger		point for Decision		point for				

#### **Key Points**

- Too much emphasis on definitive triage (e.g., ventilators and "triage team")
- "Bright lines" do not exist between contingency and crisis
- CSC exists at the bedside decisions need to be made
- Avoid ad hoc decisions whenever possible
  - Elevate the issue
  - Reactive transition to proactive at facility/ coalition/ state level



#### Provider

- Knowledge
  - Current evidence
  - · Ethical issues
  - Principles
  - Resources available
- Practice
  - Make decisions in usual scope of practice
  - Apply available policy to resource allocation decisions
  - Consult when decision not usual / no policy

Consultations Conditions Needs

Guidelines Education Resources Clinical assistance

#### Facility / System

- Incident Command System
  - Recognizes / anticipates issues
  - Integrates clinical experts
  - Receives info from consultants/triage team
  - · Develops system policy
  - · Allocates resources
  - · Public / provider messaging
- Knowledge
  - · System status
  - State / Coalition status
  - · Resource issues
- Policy
  - Clinical decision consultant available
  - Triage team available if needed
  - Clinical guidelines
  - Allocation policies (e.g. monoclonals, medications
  - Surge policy space, staffing expansion / models

Practices Conditions Needs

Guidelines Education Resources Protection Regulatory relief

#### Coalition / State

- Incident management / coordination
- Recognizes / anticipates issues
  - Integrates clinical experts
  - Make resource requests to State / Federal
  - · Provider/public messaging
- Knowledge
  - System status
  - . State / facility status
  - Resource issues
  - Information / policy sharing
- Policy
  - Regional clinical decision consultant?
  - · Regional triage team?
  - Guidance (clinical / non-clinical)
  - Strategies for allocation
  - Regional bed / transfer coordination (MOCC)?
- · STATE only
  - Liability protection
  - Executive orders
  - Regulatory relief



### **Planning**

- Incremental plan for staffing
  - Who, when, how
- Changes to unit policies, flexibility of practices
- Clinical decision support for bedside providers
  - Whenever decisions put patient at significant risk and/or are outside usual clinical practice scope
- Expectation management staff and public
- Systems response resources, structures, response
- Understand state protections and process/ "declarations"
- Advise against ad hoc/ implicit triage decisions



Category	Conventional	Contingency	Crisis
Staff used	Usual staff on	'Step over' staff with	'Step up' staff that do not usually care for
	units	consistent training from	patients of current acuity / requirements
		other units (e.g. PACU to	(e.g. intermediate or telemetry nursing to
		ICU)	ICU)
Staffing ratios	Usual ratio	Ratio increase < 150% of	Ratio increase > 150%
	nurse : patient	usual (e.g. from 1:6 up to	
		1:9)	
Tiered staffing	No	No	Yes – less experienced staff supervised by
			normal unit staff in 'pyramid' model (e.g.
			medical/surgical nurses in ICU 1:2 with ICU
			nurse supervising three RN: 6 patients)
COVID-19 status	Quarantine /	Quarantined staff used for	COVID + staff used for direct patient care
	positives off	direct patient care	
	work		
Volunteer /	No	No	Yes
government			
providers utilized for			
direct patient care			



#### Dan Hanfling, MD

Vice President, Technical Staff, In-Q-Tel; Clinical Professor, Department of Emergency Medicine, GWU

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## From the Health System/ Public Health Perspective: Information Sharing and Situational Awareness

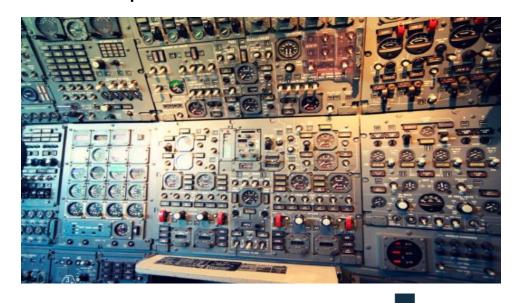




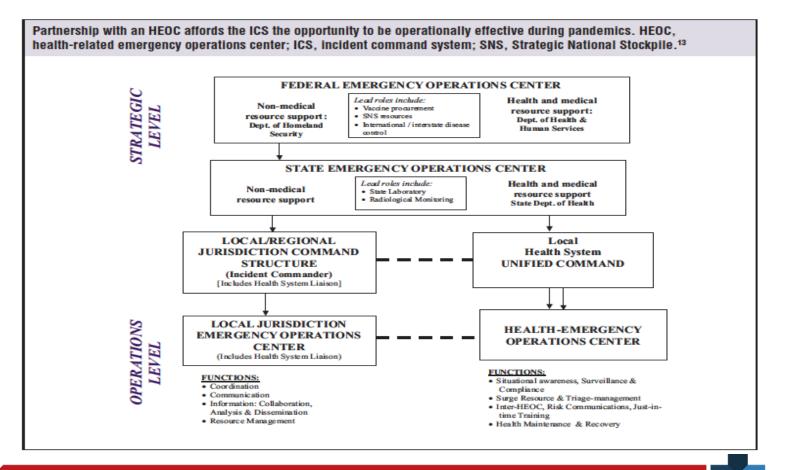
# Developing a "Care Traffic Control Center" (Kellermann/Halamka)

- "Load balance" to achieve the best possible outcomes for most
  - Beds
  - Staff
  - Key resources
  - Strategies for care

**GOAL: Consistency** 









52 V O	Wound Infection	G)
33 y.o.	Shortness of Breath	<u>e</u>
2 y.o.	Chest Pain; Abdominal Pain; Emesis; Shor	(2)
О у.о.	Loss of Consciousness; Generalized weak	<b>e</b>
0 у.о.	Shortness of Breath; Cough; Fever	(2)
2 y.o.	Hyperglycemia; Cough	<b>e</b>
9 y.o.	Shortness of Breath	<b>e</b>
9 y.o.	Shortness of Breath	<b>e</b>
3 y.o.	Fever, Pneumonia	8
у.о.	Shortness of Breath; Cough	(2)
y.o.	Fall; Shortness of Breath	3
у.о.	Shortness of Breath; Cough	<b>a</b>
y.o.	Shortness of Breath	- 8
y.o.	Chest Pain; Palpitations; Hypertension	æ
y.o.	Chest Pain; Shortness of Breath	8
y.o.	Pre-Eclampsia (PIH)	
y.o.	Shortness of Breath; Palpitations	
v.o.	Shortness of Breath	
y.o.	Cough; Shortness of Breath	
y	Cough, Shortness of Breath	





# Sharing Good Ideas, Clinical Expertise and Available Resources

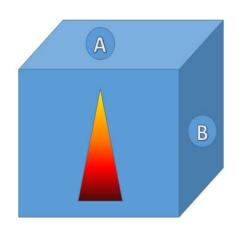
- Establish consistent policies (share expertise)
- Provide a mechanism to obtain critical care consultation for assistance with care decisions
- Coordinate resource requests to the state and federal partners
- Promote coordinated decisions that reflect the healthcare system – not solely the individual provider

GOAL: Consistency



#### Avoid the "Dilemma of the Cube"

(Dorn/Marcus)







FDNY command viewpoint

NYPD command viewpoint

### **Question & Answer**





#### **Contact Us**







1-844-5-TRACIE



askasprtracie@hhs.gov