

# Allocation of Scare Resources Lead to Developing a Crisis Standard of Care

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## Introduction/Problem

COVID-19 was spreading rapidly across the country. The number of patients coming to hospitals was increasing at an alarming rate. Does BIDMC have enough life saving equipment? What are we going to do if we run out of ventilators? BIDMC laid out an approach following Massachusetts Department of Public Heath (DPH) Crisis Standards of Care (CSOC) guidelines. The goal of the CSOC is to maximize benefit to populations of patients, often expressed as doing the greatest good for the greatest number.

## Aim/Goal

The goal was to develop and operationalizing a fair assessment tool and efficient process for each patient to be consistently and frequently evaluated and scored in alignment with Massachusetts DPH CSOC guidelines.

#### The Team

- Michael Cocchi, MD
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- Michelle Doherty, RN
- Nicole Johnson, RN
- Jaime Levash
- Deborah Stepanian
- Kimberly Voto, RN
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#### The Interventions

- Developed a guideline and scoring tool in alignment with state guidelines using the Sequential Organ Failure Assessment (SOFA) in combination with patient comorbidity status.
- > Rolled out education on the scoring process and tool to staff conducting the assessments
- > Created tracking tools and reporting systems to follow patients daily to multiple times a day
- > Reviewed scores to determine if SOFA assessment was capturing the patient correctly
- In alignment with and due to scoring methodology updates to the MA DPH CSOC, implemented different scoring tools mid-process, shifting from evaluation/scoring related to patient comorbidity status to a life expectancy score.

### Model/Indication for CSOC

As described by the National Academies, the need for healthcare surge capacity in a disaster occurs along a continuum based on demand for health care services and available resources.

Source: Massachusetts
Department of Public Health
Crisis Standards of Care
Planning Guidance for the
COVID-19 Pandemic

Incident demand/resource imbalance increases Risk of morbidity/mortality to patient increases Recovery Crisis Conventional Contingency Patient care areas repurposed (PACU, Facility non-patient care areas monitored units for ICU-level care) (classrooms, etc.) used for patient care; Physical space no longer available for clinical care Staff extension (brief deferrals of non-Trained staff unavailable or unable to adequately care for volume of patients even with extension group of patients, change in responsibilities, techniques Conservation, adaptation, and substitution of Critical supplies lacking, possible reallocation of life-sustaining supplies with occasional reuse of select supplies used resources Standard of Usual care Functionally equivalent care Crisis standards of care

**Trigger for Crisis** 

Along the continuum of care, strategies to maximize healthcare resources include Substitution, Adaptation, Conservation, ReUse and Optimize Allocation.

OPTIMIZE ALLOCATION:
Allocate resources to
patients whose need is
greater or who are more
likely to survive the
immediate crisis.

## Lessons Learned

- It is important to create a multidisciplinary team with strong collaboration and rapid responsiveness.
- Continuous awareness of critical care resources available in a rapidly changing environment is essential.
- With the introduction of daily scoring needs expected by a provider, clear communication to providers explaining the expectations in advance is needed and embedding within their existing workflow is optimal.
- > Testing of the tool/process important both for feasibility but also to evaluate for risk of inequity
- It is important to have a tracking tool where multiple people can be accessing and recording data simultaneously.

## Next Steps

Through monitoring of COVID-19 patient volume and availability of critical care resources, once it became evident that supply would meet demand, the Massachusetts Crisis Standards of Care (CSOC) was deactivated to the relief of many.

For more information, contact:

Extreme operating

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