A REGIONAL APPROACH TO ALLOCATION OF SCARCE RESOURCES FOR CRISIS CARE

This document addresses <u>crisis standards of care</u> for use in the COVID-19 pandemic. <u>Crisis capacity</u> is defined as adaptive spaces, staff and supplies not consistent with usual standards of care but providing sufficiency of care. <u>CONTINGENT</u> and <u>CRISIS</u> capacity activation may constitute a significant adjustment to conventional standards of care. Relevant <u>ethical principles</u> including respect, fairness, duty to care, duty to steward resources, transparency, consistency, proportionality, and accountability are outlined by the NAM/IOM and OR and WA state crisis care guidance materials referenced below.

Before moving from usual standards of care to crisis capacity activation, a <u>CONTINGENT stage</u> initiates measures to prepare for surge capacity. Many of our systems, while not yet overwhelmed, may be operating at this inflection point marked by bed census at or near capacity and critical care resources approaching capacity with an imminent surge expected. Surge capacity measures may include expanding telehealth, discharging patients not requiring acute inpatient care, preparing staff to serve in alternate duties, and deferring non-urgent surgeries. Collaboration between hospitals is essential in order to ensure that patients are transferred before triaged while available resources may still exist elsewhere in the community.

<u>CRISIS stage</u> is a state where systems are overwhelmed despite surge capacity measures. Instead of facilities operating in isolation, a shared decision in collaboration with the CMOs of community hospitals, county and state public health, and the Governor's Office as to when the community will enter CRISIS triage stage as one unified health system is recommended. Then, <u>teams</u>* separate from the primary clinical care teams (to mitigate influences of implicit and explicit bias) could address scarce resource allocation (SRA) for critical care in collaboration with the incident command structure. Those operating within the SRA structure should be guided by values of consistency, transparency, & compassion.

* Scarce Resource Allocation (SRA) team (facility-specific) – considers a cross-institutional framework, guides transition into and implements CRISIS triage protocol, oversees operations and tertiary triage, considers appeals, mitigates moral distress

- Membership could include team leader, logistics/operations, critical care, nursing, emergency department, ethics, infectious disease, palliative care, social work, and/or chaplain.

Triage team (person-specific) – functions under a SRA team to implement triage protocol by gathering clinical data, completing scoring, making triage decisions with de-identified data and scores, directing clinical teams
Membership could include team leader, critical care, nursing, logistics/operations, and others.

[*The size and resources of a given facility will inform personnel decisions on these teams including practical considerations such as ensuring continuity across shift changes. Consideration should be applied to reassigning those who are particularly vulnerable to COVID-19 from direct patient care to SRA and triage team roles. Ideally members of these teams would be trained in implicit bias and be reflective of the community being served.]

Each institution would develop its own triage team protocol based on (1) survivability (prognosis for short- and long- term survival), and (2) random allocation as tie-breaker. Importantly, it would <u>NOT</u> be based on age, social worth, race/ethnicity, gender or sexual orientation, ability to pay, immigration status, nor disability. The scoring system is detailed further in the "Pilot Crisis Triage Tool," which is intended to guide triage teams in using clinical data to inform a clinical decision on the basis of survivability. An objective assessment that a given patient has a very low likelihood of survival even with critical care would ultimately result in both a DNR order and appropriate palliative care while the opposite may result in the initiation and continuation of critical care where resources permit.

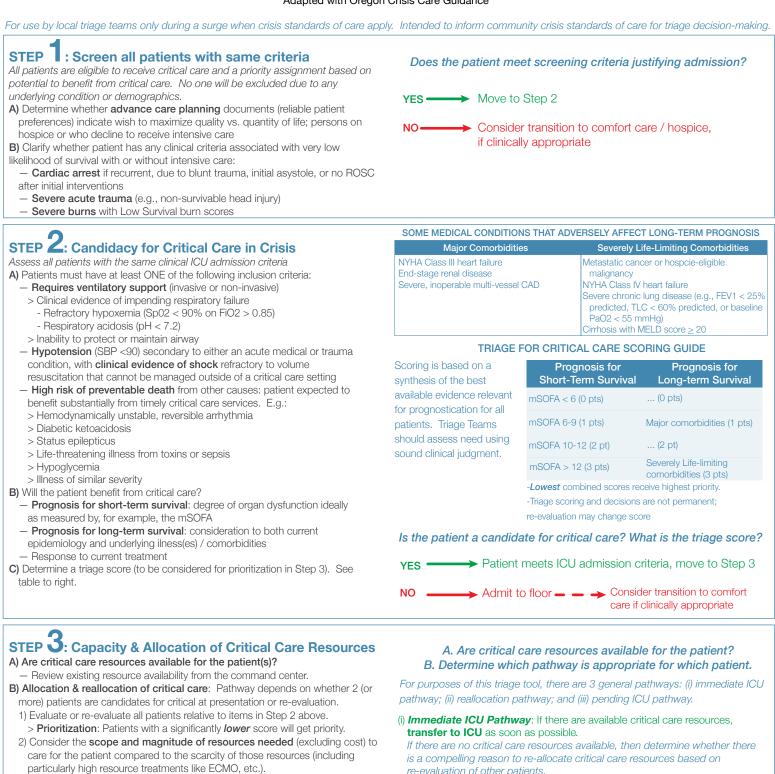
<u>Goals of care conversations</u> should start immediately, carefully outlining likely ICU scenarios with all patients with significant comorbidities such as diabetes, heart disease, and chronic kidney disease discussing likely long-term ventilator requirements and isolation.

REFERENCES

- 1. NAM/IOM. 2012. Crisis standards of care: A systems framework for catastrophic disaster response.
- 2. Oregon Crisis Care Guidance. 2018. www.theoma.org/crisiscare.
- 3. WA State Dept of Health / NW Healthcare Response Network. 2020. Scarce Resource Mgmt & Crisis Standards of Care.
- 4. VITALtalk. 2020. COVID-Ready Communication Skills, <u>www.vitaltalk.org/guides/covid-19-communication-skills/</u>.
- 5. While the primary source documents for this approach are the Oregon Crisis Care Guidance and the NW Health Care Response Network / Washington State Dept. of Health materials, additional insight was found in <u>D. White and B. Lo, "A Framework for Rationing Ventilators and Critical Care Beds During the COVID-19 Pandemic," JAMA, March 27, 2020.</u>

COVID-19 Pandemic: Pilot Crisis Triage Tool

Adapted with Oregon Crisis Care Guidance



- 3) In case of a priority tie (equipoise):
 - > Randomization: if necessary randomization may be used as a tie-breaker.

re-evaluation of other patients.

- (ii) **Reallocation ICU Pathway**: If there is a compelling reason, **transfer to** ICU and de-escalate treatment for the other patient who was in ICU. De-escalation may mean: (1) admit to the floor and initiate temporizing measures, place patient on ICU waitlist; or (2) admit to the floor and consider transition to comfort care / hospice if clinically appropriate.
- (iii) Pending ICU Pathway: If there is NOT a compelling reason to reallocate, or if one patient has higher priority than another but both are candidates for critical care, admit the lower priority patient to the floor and initiate temporizing measures, place patient on ICU waitlist.

STEP 4: Continuous Monitoring & Re-evaluation

Triage decision-making occurs only during a surge when need outstrips capacity and there is no option for transfer. The following steps should be taken by a Triage Team on a predetermined schedule and in coordination with local public health officials.

- 1. Monitor patients in ICU and on ICU waitlist(s) daily for any relevant changes (e.g., improving, unchanged, or worsening). Adjust treatment pathways as needed commensurate with needs of the community.
- 2. Assess any new epidemiological and prognostic data for COVID-19.
- 3. Escalate process issues to the command center or appropriate body.
- 4. Facilitate an appeals process for cases when a triage decision is in dispute.
- 5. Track triage decision-making for continuous quality improvement efforts.