

## STANDARDS OF CARE for NON CONVENTIONAL SURGE CAPACITY LEVEL Due to COVID 19 Pandemic

As a healthcare provider and community leader, Seton Medical Center (SMC) and its staff shall make every effort to provide emergent and acute care services (safely and within the scope of its service) to the community during times of medical crisis. SMC shall work directly with the San Mateo County and neighboring hospitals to plan and coordinate medical disaster response, operations and recovery activities, during times of medical crisis.

The scope of the standards of care is to guide the hospital in identifying and responding effectively to any event that presents the potential for a large number of persons seeking emergent and/or acute medical assistance, at the location of the hospital, or the defined hospital zone, exceeding the conventional capacity of the hospital. The standard of care detailed below consists of a number of procedures designed to identify and respond to those situations. The standards of care is divided into three categories such as, conventional, contingent and category in accordance with definitions offered by California Pandemic Crisis Care Guidelines published on June 2020. The program is aimed to assure fulfillment of the medical needs of patients while being in compliance with applicable codes and regulations and through efficient use of resources. This standards of care will be complementing the hospital's current emergency operations plans.

## **DEFINITIONS:**

**Conventional:** Usual resources and level of care provided. For example, during a surge in patients, maximizing bed occupancy and calling in additional staff to assist. **Contingency:** Provision of functionally equivalent care that may incur a small risk to patients. Care provided is adapted from usual practices. For example, boarding critical care patients in post-anesthesia care areas using less traditional, but appropriate resources.

**Crisis:** Disaster strategies used when demand forces choices that pose a significant risk to patients but is the best that can be offered under the circumstances. For example, cot-based care, severe staffing restrictions, or restrictions on use of certain medications or other resources.



**Indicator**: is a "measurement or predictor of change in demand for health care services or availability of resources. An example of an indicator is a report of several confirmed cases of COVID-19 in the community by the local health department. **Trigger**: is a "decision point about adaptations to health care service delivery" that requires specific action.

## **BACKGROUND:**

In early fall of 2019, a novel influenza virus was detected in the United States. The virus exhibited twice the usual expected influenza mortality rate. As the case numbers increased, a nationwide pandemic was declared. The Centers for Disease Control and Prevention (CDC) identified the at-risk populations as school-aged children, middle-aged asthmatics, all smokers, and individuals greater than age 62 with underlying pulmonary disease. Definitive preventive and curative modalities re still under research, development, and implementation. The longstanding impact of the unprecedented pandemic forced the hospitals to exceed surge capacity levels, causing significant challenges on various resources. In responding to the challenges posed by the pandemic, SMC follows all national, state and local regulations and guidance and works in close relation with local public health department.



Indicator Category	Contingency	Crisis	Return Toward Conventional
Surveillance data	Indicators:	Indicators:	Indicators:
	<ul> <li>Pandemic or epidemic (e.g., SARS Cov2</li> <li>) virus detected</li> </ul>	<ul> <li>Epidemiologic projections will exceed resources available</li> </ul>	Surveillance streams show decline in active
	□ Regional/community emergency department	Crisis Triggers:	Improvement in
	(ED) volume, ED wait times/boarding times	Epidemiology projections	regional/community ED
	Regional/community hospital capacity or	exceed surge capacity of facility	volumes/wait times/boarding
	subset data, such as available intensive care	for space or specific capability	times
	unit (ICU) beds	(e.g., critical care)—see below	Triggers:
	Triggers:	space and supply	Not specified for predictive
	Receipt of health alert triggers group	considerations, as triggers	data, will adjust based on
	notification by receiving infection prevention	should be based on depletion	specific actionable data
	personnel	of available resources	Tactics:
	"Full capacity" plan initiated when ED wait		Stand down incident
	times exceed 5 hours/day		management (scaled)
	Tactics:		Lengthen duration of planning
	Communication/coordination with		cycles
	stakeholders/coalition partners		Reduce/deactivate regional
	Change hours, staffing, internal processes in		information exchange
	accord with facility plans		Facility practices revert
	Assess predicted impact on institution		toward conventional
	Partial or full activation of incident command		Revert to normal system
	system/hospital command center		monitoring
Staff/Workforce	Indicators:	Indicators:	Indicators:
	Increasing staff absenteeism	Increasing staff requirements	Staff impact is reduced,
	Specialized staff needed (nurses) for	in face of increasing demand	schools back in session,
	incident patients	Contingency spaces maximized	damage to community
	Staff work action anticipated (e.g., strike)	Contingency staffing	mitigated
	High patient census	maximized	Staff absenteeism reduced
	Staffing hours adjustment required to	Crisis Triggers:	Specialty staff obtained or
	maintain coverage	Unable to safely increase	demand decreased
	□ Staffing supervision model changes required	staff to patient ratios or	Triggers:
	to maintain coverage	broaden supervisory	Staff to patient ratios as per
	Triggers:	responsibilities	state law achieved on



	<ul> <li>10 % staff ill call rate prompts notification of emergency management group</li> <li>School closures across area trigger opening of staff day care</li> <li>Normal staff to patient ratios exceeded</li> <li>Specific staff expertise demands exceeded (e.g., nurses)</li> <li>Tactics:</li> <li>Assess likely impact on facility</li> <li>Hold staff</li> <li>Change hours, staffing patterns</li> <li>Change hours, staffing patterns</li> <li>Change staff to patient ratios</li> <li>Specialty staff provide only specialty/ technical care, while other staff provide more general care</li> <li>Callback, obtain equivalent staff from coalition, hiring, administrative staff</li> <li>Change charting responsibilities</li> <li>Curtail nonessential staffing (cancel elective cases, specialty clinic visits, etc.)</li> <li>Provide support for staff (and their families as required) to help them continue to work and provide quality care (e.g., stress "immunization," rest periods, housing support)</li> </ul>	<ul> <li>Lack of qualified staff for specific cares—especially those with high life- safety impact</li> <li>Tactics:         <ul> <li>Tailor responsibilities to expertise, diverting nontechnical or non- essential care to others</li> <li>Recruit and credential staff from volunteer (Medical Reserve Corps [MRC], Emergency System for Advance Registration of Volunteer Health Professionals [ESAR-VHP]) or federal sources (Disaster Medical Assistance Team [DMAT], other National Disaster Medical System [NDMS] source, etc.)</li> <li>Establish remote consultation of specialized services such as</li> <li>telemedicine, phone triage, etc., if possible</li> <li>Evacuate patients to other facilities with appropriate staff available</li> </ul> </li> </ul>	medical floor <b>Tactics:</b> Shorten shift lengths Adjust staff to patient ratios toward normal Transition toward usual staff—releasing less qualified staff first Resume care routines Resume administrative duties
Space/Infrastructure	Indicators:         Increased ED volumes         Increased clinic/outpatient volumes         Increased inpatient census         Increased pending admits/ED boarding	<ul> <li>Indicators:</li> <li>□ Inpatient/outpatient contingency spaces maximized or near-maximized</li> <li>□ Escalating or sustained</li> </ul>	<ul> <li>Indicators:</li> <li>Favorable epidemiologic curves</li> <li>Restoration of critical system function</li> </ul>



Triggers:	demand on ED/outpatient	ED/outpatient volumes
Inpatient census exceeds conventional b	ds despite implementing	decreasing
Damage to infrastructure	contingency strategies	Triggers:
Clinics unable to accommodate demand	or Damage to infrastructure	Patients able to be matched
acute care	affecting critical systems	to appropriate areas for care
>5 hours/day ED boarding time	Crisis Triggers:	Tactics:
Electronic health record downtime	Contingency inpatient beds	Transitional movement of
Telephone or Internet systems failures	maximized	sickest patients back into
Tactics:	Contingency outpatient	ICU environment
Expand hours of outpatient care	adaptations inadequate to	Broaden admission criteria
Open additional outpatient care space by	meet demand using	Reduce/eliminate care in
adjusting specialty clinic space/ times	equivalent spaces or	nontraditional spaces (stop
Provide "inpatient" care on pre-induction	strategies	providing assessment/care
post anesthesia care, other equivalent	Damage to infrastructure	in non-patient care
areas	affecting critical systems and	areas/cot-based)
Divert patients to clinics/other facilities	presenting a safety issue to	□ Shift toward normal hours
Transfer patients to other facilities	staff/nationts	
"Reverse triage" appropriate patients ho	Tactics:	
(with appropriate home care)	Establish nontraditional	
Implement downtime procedures for IT	alternate care locations (e.g.,	
systems	auditorium, tents, conference	
	rooms), recognizing	
	governmental role in	
	authorizing waivers	
	"Reverse triage" stable	
	patients to these areas, move	
	stable ICU patients to	
	monitored bed areas (i.e.,	
	step-down units deliver ICU-	
	level care)	
	Consider other methods of	
	outpatient care, including	



2		<ul> <li>telephone treatment and prescribing</li> <li>Change admission criteria— manage as outpatients with support/early follow-up</li> <li>Evacuate patients to other facilities in the region/state/nation that have appropriate capabilities and capacity</li> </ul>	
Supplies	Indicators: <ul> <li>Vendor supply or delivery disruption</li> </ul>	Indicators:	Indicators: <ul> <li>Reduced use of PPE or other</li> </ul>
	<ul> <li>Supply consumption/use rates</li> </ul>	ventilators	supplies
	<ul> <li>Epidemiology of event predicts supply</li> </ul>	Anesthesia machines and	Reduced caseload or
	impact	other adaptive ventilation	demand for care and
	Triggers:	strategies in use	services
	Event epidemiology predicts ventilator or	Coalition/vendor lack of	Improved delivery of
	other specific resource shortages (e.g., pediatric equipment)	available critical supplies/medications	supplies Reduced need for ventilator
	<ul> <li>Medication/vaccine supply limited</li> </ul>	Crisis Triggers:	or other triage
	<ul> <li>Consumption rates of personal protective</li> </ul>	□ Inadequate ventilators (or	Triggers:
	equipment (PPE) unsustainable	other life- sustaining	□ Able to provide contingency
	Vendor shortages impact ability to provide	technology) for all patients	ventilation and critical care
	normal resources	that require them	strategies to all that require
	Tactics:	□ Inadequate supplies of	them
	□ Use nontraditional vendors	medications or supplies that	Tactics:
	Obtain from coalition facilities/ stockpiles (including patential state (foderal sources)	cannot be effectively conserved or substituted for	<ul> <li>Re-triage patients as resources become available</li> </ul>
	<ul> <li>(including potential state/ federal sources)</li> <li>□ Conserve, substitute, or adapt functionally</li> </ul>	without risk of disability or	□ Broaden indications for
	equivalent resources; reuse if appropriate	death without treatment	interventions as conditions
		Tactics:	improve.
		Implement triage	Transition back from
		team/clinical care committee	reallocation and reuse to
		process	safer adaptive and



Determine bridging therapies conservation strategies
(bag- valve ventilation, etc.)   Loosen restrictions on use of
□ Coordinate care/triage supplies
policies with coalition
facilities (in no-notice event,
this may not be possible)
Triage access to life-saving
resources (ventilators, blood
products, specific
medications) and reallocate
as required to meet demand
according to state/ regional
consensus recommendations
Restrict medications to select
indications
Restrict PPE to high-risk
exposures (and/or permit PPE
reuse)
Reuse or reallocate resources
when possible (benefit
should outweigh risks of
reuse; reallocate only when
no alternatives.



## **REFERENCES:**

Hanfling, D. Hick, J. & Stroud, C. (2013) Editors; Committee on Crisis Standards of Care: A Toolkit for indicators and Triggers; Board on Health Sciences Policy; Institute of Medicine, "Crisis Standards of Care: A Toolkit for Indicators and Triggers" (the National Academies Press)

Hick, J. L. Hanfling, D. & Cantrill, S. V. (2012). Allocating Scarce Resources in Disasters: Emergency Department Principles. *Annals of Emergency Medicine, 59*(3), p 178.