Purpose

This plan informs health care personnel, public health, and government officials at all levels of the necessary capabilities that must be present for successful emergency department management of an outbreak of COVID-19. It also enumerates the necessary actions that must be taken to attain these capabilities. The performance of the necessary actions will fall to parties including professional associations, government entities at the federal, state and local levels, public health officials and departments at the federal, state and local levels, and hospitals – administrators, medical

staff, nursing and support services. Those entities should undertake the necessary operational planning to assure their performance prior to, during and following an outbreak of COVID-19. The plan serves as a guide for emergency departments to address the interdependencies that are necessary for successful management of such an incident. The goal of this guidance is to protect the health care infrastructure and ensure the delivery of emergency medical treatment during a large-scale epidemic or pandemic.

Background

COVID-19 is an emerging coronavirus initially discovered in Wuhan, China in December, 2019. The origin of this virus is currently unclear, although it may be a zoonotic spillover virus from the bat order, Chiroptera, possible passing through one or more other species before infecting humans. The overall picture of this infectious disease is changing rapidly with much still unknown about its modalities of spread, incubation and infectious periods and other important aspects of the virus. However, at this point in time, some aspects of this virus are worrisome: 1) it appears to be very contagious and able to spread rapidly

by respiratory droplet spread, similar to influenza; 2) there is concern that asymptomatic patients harboring the virus may still be able to spread the infection to others; and 3) the current case-fatality rate in symptomatic patients appears high, however when mildly symptomatic or asymptomatic patients are taken into account, the CFR is probably much lower overall. Currently, as of this writing (March 1, 2020), COVID-19 has 88,587 confirmed cases worldwide (most in China) with 3,038 deaths with infected patients in more than 66 countries/regions. The World Health Organization has classified this disease as globally very high risk,.

Risk Awareness

An important community mitigation strategy is keeping people who are ill from entering the workplace and school. Encouraging social distancing and frequent hand washing policies are important parts of the strategy. The combination of the effects of the disease and employing these measures could affect the business practices of all the critical infrastructure operators, possibly impeding their ability to maintain normal operations.

At some critical point the operations of hospitals may be affected, not only by the absence of hospital workers, but by slowdowns in transportation of critical supplies and support services, the effect of these factors being the inability to maintain normal operations, even for normal patient volumes. Each year, normal influenza season can stress an emergency department's ability to maintain normal operations because of the increase in both outpatient volume and admissions. It is therefore prudent to prepare for a worse than normal influenza season. While the precise effects of COVID-19 on emergency departments' ability to function cannot be predicted with complete confidence at this time, contingency plans should be made for a challenging scenario.

Vulnerability

Population. It is unclear at this time as to which populations may be more vulnerable to COVID-19, although initial data suggests that elderly individuals (especially males) and those with underlying medical problems may be more at risk for a bad outcome from this infection.

Critical Infrastructure

The ability of some critical infrastructures components to continue normal operations depends largely on the attendance of its workforce. Others may have plans and procedures in place for tele-work or social distancing. The nation's just-in-time supply chain could experience delays in supplying goods and services, and businesses who cannot survive operational interruptions may expand inventories of supplies. Hospitals are no exception to this. Pharmacies may

not be able to get additional supplies from distributors or sources higher in the chain, domestic and foreign.

Supplies of personal protective equipment (PPE) and other supplies may require stockpiling, and food services could encounter supply problems due to impaired production and delivery. The workforce may be depleted due to infection, fears of coming to work in an infectious environment, or the need to care for children out of school or other family members. Medical care is highly labor intensive; thus, service delivery is expected to be exquisitely sensitive to the ratio of service demand to workforce supply.

Consequence

The consequences to society will vary with the severity of the illness (ease of transmission and virulence), the degree to which the population is prepared and resilient (vaccinated- if and when an effective vaccine becomes available, compliant with community mitigation strategies, and educated about the threat), and whether business and industry can sustain productivity during a pandemic. A COVID-19 outbreak with the severity of the 1918 influenza pandemic obviously could have far-reaching consequences. Lesser-severity outbreaks could result in temporary disruptions in the flow of goods and services and would likely cause further stresses on an already over-burdened health care system. Certain medical services could be delayed or unavailable, potentially causing secondary morbidity and mortality to those unaffected COVID-19. A milder COVID-19 outbreak than feared will result in charges of over-reaction and fear mongering, which could have detrimental effects on future compliance with public health measures, future immunization initiatives and compliance with a response to public health emergencies.

There are consequences to planning, including financial investment and diversion of human resources, and consequences to the lack of planning should the threat become reality. In either case, a prudent assessment of risk is vital and prudent planning in response to that risk is necessary to mitigate possible consequences.



Response to the Threat

The American College of Emergency Physicians (ACEP) supports comprehensive response planning by its members and their institutions. ACEP will work with its corresponding professional associations (e.g. nurses, prehospital professional, EMS medical directors, hospitals, public health associations) to implement the actions and satisfy the requirements of the planning process. ACEP will seek support as necessary on behalf of its members from federal government entities responsible for surge medical response capabilities.

ACEP state chapters should seek the involvement of their state public health directors. Members should involve local emergency managers, political leaders and local health directors. The national strategic plan planning process and the capabilities and actions herein should prompt a local process that defines how to operationalize these capabilities and to articulate the necessary requirements to perform them. Those requirements should result in the targeting of resources and the identification of gaps that may exist in funding. Those unfunded requirements must be communicated to local emergency managers and political leaders to guide resource allocations and possible supplementary grant funding from federal entities.

Emergency physicians and their professional colleagues in nursing and prehospital care will be on the front line of any emergency requiring surge medical response capability. They will be the ones to answer the challenge of waves of patients presenting for care. They will also be the beneficiaries of good planning or the victims of the lack of it. ACEP will exercise all of its influence to ensure that patients can be cared for and that its members are sufficiently resourced, trained, equipped and exercised to fulfill their critical mission. Triggers for various parts of a response plan are part of the planning process, and the

authorities to take action must be clear. Likely, as cases are recognized and increasing strain is put on acute care facilities, the health care professionals and administrators in those facilities will be the first to know there is a crisis.

Communications with local and state public health directors for situational awareness are of paramount importance. Clear communications protocols must be created and exercised on a regular basis prior to an event. Agreements on stepwise implementation of the relevant parts of the plan must be in place to avoid disruptions in services during the ramp-up phase and to allow for the necessary provision of resources. Just as the parts of the plan will be implemented with the situational awareness of the local leaders and public health officials, so will the "standing down" of the pandemic plan. Agreements must be in place as to the triggers for the authorities to return to the prior steady state. This decision must be made with situational awareness of the epidemiology of the disease in the community and cannot be done, institutionally, in a vacuum.

Depending on the severity of the outbreak and its virulence, institutions may face a depleted workforce. In addition to those lost to illness, there may be those with concerns about being in an environment of higher risk from exposure to infectious disease. There may be personnel who have temporary reasons for not returning to the workplace, such as pregnancy or needing to care for family who remain ill. ACEP will work with its counterpart professional associations and the federal government to dispense actionable information to its members so that they remain aware of current information on the changing situation and can make decisions accordingly.

Management Strategy

ACEP will use all means necessary to (1) ensure that our patients receive the best care possible, and (2) ensure that its members are able to fulfill their professional responsibilities. The National Strategic Plan for Emergency Department Management of Outbreaks of COVID-19

follows the federal template for management of biological threats, as outlined in Homeland Security Presidential Directive #10. The pillars of that strategy are: Threat Awareness, Protection and Prevention, Surveillance, Detection, Response and Recovery.

This National Strategic Plan for ED Management of COVID-19 outbreaks adapts this template to form its own pillars of prescribed capabilities:

- Situational awareness
- Protection of the emergency department infrastructure and personnel
- Prevention of disruptions in service delivery
- Organized, timely surge medical response
- Recovery to the previous steady state

Capabilities for Emergency Department Response to a Severe COVID-19 Outbreak

- 1. Trained Emergency Manager or Chief Preparedness Officer designated as lead for COVID-19 preparedness and response, fully integrated with community emergency preparedness, public health and resource managers
- 2. Seamless connectivity with local/state governmental emergency management, public health, other hospital Chief Preparedness Officers, and any other support organizations
- 3. Emergency operations plan for COVID-19
- 4. Surge staffing plan for the entire institution
- 5. Hospital Incident Command System and National Incident Management System training, knowledge and compliance
- 6. Functional Hospital Command Center
- 7. Training and exercise program for all involved personnel
- 8. Appropriate PPE for health care staff
- 9. Capability to screen and test staff for illness
- 10. Enhanced facility security and crowd management
- 11. Administrative and legal support
- 12. Antiviral prophylaxis and vaccine availability for Staff when available and recommended by the CDC
- 13. Interoperable communications system (fire, law enforcement, EMS, emergency management, receiving hospitals, local/regional public health, local EOC)

- 14. Maintaining EMS operations during COVID-19 outbreak
- 15. Laboratory testing protocols
- 16. Alternate locations and staffing for triage and medical screening exams
- 17. Off-Site vaccine administration when available and indicated
- 18. Health information call centers
- 19. Configuration of ED waiting rooms for distancing to the degree possible
- 20. Protocols for those visiting patients with fever and respiratory symptoms
- 21. Environmental decontamination capability
- 22. Off-site mass screening capability
- 23. Adequate inpatient surge capacity including the establishment of alternate care facilities
- 24. Trained and credentialed volunteers
- 25. Awareness of strategic national stockpile (SNS) surge supplies and equipment and capability to receive those supplies
- 26. Accurate and coordinated public information dissemination including when to seek care for illness
- 27. Augmented post-mortem and mortuary services



Critical Actions

Planners for surge medical response should consider the actions in Annex 1 to achieve the necessary capabilities. The method for performance of the actions and the measures of performance will be determined locally. The resulting requirements list (including those currently present and funded, present and not funded, and not present) will guide resource allocations and requests for additional resources.

This plan defines roles and responsibilities that belong to national emergency medicine organizations, such as ACEP, and to each emergency department. It also suggests roles and responsibilities for those with whom interdependencies exist for surge medical response. It is critical, working together locally, to define those roles, articulate the requirements – funded and unfunded, and to quantify and identify the resources required to accomplish them.

1. Trained Emergency Manager or Chief Preparedness Officer designated as lead for COVID-19 preparedness and response, fully integrated with community emergency preparedness, public health and resource managers.

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Acti	ion:						
a.	Designate an in-house position, or new hire (NIMS certified, HICS trained); National Incident Management System (NIMS) Hospital Incident Command System (HICS)						
b.	Establish authority to carry out responsibilities;						•
C.	Execute/implement ASPR Influenza Surge Preparedness Assessment as appropriate https://www.acep.org/globalassets/uploads/uploaded-files/acep/clinical-and-practice-management/resources/publichealth/h1n1/aspr-influenzasu rgepreparednessassesment.pdf					•	•
d.	For institutions that are part of a hospital system, establish/strengthen connections amongst the different emergency managers and hospital leaders						•
e.	Review National Guidance for Healthcare System Preparedness https://www.phe.gov/preparedness/planning/hpp/reports/documents/capabilities.pdf					•	•
f.	Review/implement AHRQ Mass Medical Care with Scarce Resources: A Community Planning Guide as appropriate https://web.mhanet.com/AHRQ_mass_care_guide11.06.pdf					•	•
g.	Maintain awareness of status or threat of COVID-19 in US, state, and region as reported by CDC and state, keeping hospital in posture of preparedness prior to initiation of any emergency operations						
	Review Crisis Standards of Care and its implications for the institution https://asprtracie.hhs.gov/technical-resources/63/crisis-standards-of- care						
	Allocating Scarce Resources in Disasters: Emergency Department Principles Hick, John L. et al. <i>Annals of Emergency Medicine</i> , Volume 59, Issue 3, 177 - 187	•	•	•	•	•	•
	WHO https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200228-sitrep-39-covid-19.pdf?sfvrsn=aa1b80a7_2						
	CDC https://www.cdc.gov/coronavirus/2019-ncov/locations-confirmed-cases. html#map						

2. Seamless connectivity with local/state governmental emergency management, public health, other hospital Chief Preparedness Officers, and any other support organizations

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Agree on modalities, nodes, thresholds and frequency for multi-directional information flow/communication during emergency operations such as EOC dash boards.			•	•	•	•
b.	Agree on and establish common language and formats for data sharing during emergency operations		•	•	•	•	•
C.	Agree on types, degrees (and limitations) of participation in regionalized response to the public health emergency			•	•		•
d.	Confirm that emergency management/public health authorities have coordinated with clinics, private medical practices, extended care facilities, local medical societies, health care coalitions re: response plan			•	•		
e.	Subscribe to the CDC and your state HAN network or other state department of health communication modality	•			•		•
f.	Confirm connectivity of key subject matter experts (SMEs) and authorities within hospital with their outside counterparts (e.g. hospital laboratories with state labs and Laboratory Response Network facilities) and reporting relationships in-house for common operating picture						•

3. Emergency operations plan for COVID-19

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Appoint a hospital COVID-19 planning group						•
b.	Review the hospital's emergency operation plan (EOP) for applicability to COVID-19				•	•	•
C.	Utilize Web resources to identify and disseminate model EOPs for COVID-19	•	•	•	•	•	•
d.	Review the best plans and adapt to your institution for e.g. Hospital Disaster Preparedness Self-Assessment Tool https://www.acep.org/globalassets/uploads/uploaded-files/acep/clinical-and-practice-management/ems-and-disaster-preparedness/hospital-disaster-preparedness-self-assessment-tool.doc					•	•
e.	Assess your COVID-19 EOP using a table-top exercise with hospital staff including physicians, administrators and logistics experts present to ensure that the plan is workable and will maintain operations under anticipated circumstances.					•	•

5. HICS and NIMS knowledge and compliance

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Provide HICS/NIMS training for all hospital staff appropriate to their assigned positions https://www.calhospitalprepare.org/hicshttps://training.fema.gov/nims/						•
b.	Ensure that those managing an incident have appropriate levels of NIMS certification: Incident management leadership - NIMS IS 700 Individuals responsible for the emergency plan - NIMS IS 800 Personnel who have a direct role in middle management and/or emergency response - IS 100. and 200. https://training.fema.gov/nims/			•	•		•

6. Functional Hospital Command Center

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Review and customize hospital command centers (HCC) functions in HICS for your institution https://emsa.ca.gov/disaster-medical-services-division-hospital-incident-command-system-resources/			_			•
b.	Establish authority and criteria to activate the HCC						

7. Training and exercise program for all involved personnel

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Create and execute a training program based upon your emergency operations plan			•			
b.	Develop a template for a COVID-19 exercise program	•					
C.	Execute an exercise to test training and plan validity						
d.	Use results of the exercise to further improve the emergency operation plan, and then re-exercise						•
e.	Design and implement special training for public affairs in existence of plan to care for all who need it during COVID-19 emergency, changes to normal daily operations that could occur during pandemic, where and how they will get information						•
f.	Discuss with hospital public affairs and public health authorities when and how to inform the public as to when and how to access information and care during an outbreak.				•		•

8. Appropriate PPE for health care staff

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Consult national guidance for recommended PPE use for patients with confirmed or under investigation for COVOD-19 in healthcare settings https://www.cdc.gov/coronavirus/2019-ncov/infection-control/control-recommendations.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fhcp%2Finfection-control.html					•	•
b.	When indicated by the CDC, estimate PPE needs for multiple waves of COVID-19.					•	•
C.	Stockpile appropriate quantities of PPE prior to outbreak. Developing a range of respirator conservation strategies, including strategies to make supplies last longer (such as using alternative products like reusable respirators) and extending the use of disposable respirators. Strategies for Optimizing the Supply of N95 Respirators https://www.cdc.gov/coronavirus/2019-ncov/hcp/respirator-supply-						•
	strategies.html						
d.	Train/update medical personnel in use of PPE (including fit testing of N95 or other appropriate respirator)						•

9. Capability to screen staff for illness

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Develop protocol for staff screening including criteria for dismissal from work when symptomatic.						•
b.	Consider furlough or reassignment of staff at high-risk for COVID-19 complications						•
C.	Develop criteria and process for return to work						•

10. Enhanced facility security and crowd management

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Develop plan and criteria for implementation for enhanced facility security and crowd management including facility lockdown						
b.	Establish infected (or potentially infected0 patient flow paths through the institution to avoid contact with uninfected individuals.					•	
C.	Ensure signage at all entry access points with instructions for appropriate triage/treatment areas based on symptoms. Provide appropriate PPE.						
d.	Develop plan and criteria for implementation of visitor limitation					•	
e.	Establish a memorandum of understanding (MOU) with law enforcement or other sources for increased institutional security						

11. Administrative and legal support

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Review and incorporate, as appropriate, guidelines from the American Health Lawyers Association https://www.healthlawyers.org/hlresources/PI/Documents/PI14PFP-eP.pdf#search=flu%20guidelines%20checklist				•	•	•
b.	Incorporate provisions of anticipated or actual federal declarations of public health emergency into regional and hospital emergency operations: e.g. possible time-limited waiver of EMTALA, emergency use authorizations (EUAs) for pharmaceuticals			•	•	•	•
C.	Establish protocols for rapid credentialing and pre-event credentialing of surge resource personnel						
d.	Incorporate provisions of anticipated or actual state declarations of public health emergency into regional and hospital emergency operations: e.g. possible suspension of destination and diversion policies for EMS providers					•	•
e.	Establish legal protocols for human resources to manage attendance of designated mission-critical personnel						
f.	Work with labor and/or staff representatives to develop policies for maintaining staffing, morale, discipline, and safety during emergency operations						•
g.	Discuss with legal and medical staff the implementation of "scarce resources allocation" procedures						
h.	Establishment and maintenance of Finance/Administration branch of HICS with assigned functions according to standard protocols and hospital EOPs FEMA rules for reimbursement during an outbreak pandemic – hospital finances http://www.hhs.gov/disasters/discussion/planners/playbook/panflu/subtask.html						•
i.	Review legislative authorities of relevance for panflu (e.g. HIPAA, EMTALA, Expanded Scope of Practice, Allocation of Scare Resources. Medical Liability)	•		•		•	

12. Antiviral prophylaxis and vaccine availability for staff if and when specified by the CDC.

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Perform resource requirement assessment based on the size of your staff and CDC recommendations					•	
b.	Considering federal and state guidance, develop a plan for prioritization and administration of antiviral prophylaxis and vaccine to your staff					•	•
C.	Do a resource assessment of what is available in hospital pharmacy, local retail pharmacies and state stockpiles.			•	•		•
d.	Develop plans for addressing the gap between estimated requirement and what is expected to be available, including agreements with supply sources			•	•		•

13. Interoperable communications system (fire, law enforcement, EMS, emergency management, receiving hospitals, local/regional public health, local EOC)

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Ensure effective two-way communication among these agencies during an emergency.			•	•	•	•
b.	Ensure that dash boards and communications are networked, tested, organized under Incident Command hierarchy, and overseen by a designated regional authority			•	•	•	•

14. Maintaining EMS operations during an outbreak

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Review and incorporate, as appropriate, plans and protocols in guidelines for EMS in COVID-19 https://www.ems.gov/ https://icsw.nhtsa.gov/people/injury/ems/PandemicInfluenzaGuidelines https://files.asprtracie.hhs.gov/documents/aspr-tracie-transport-playbook-508.pdf			•		•	
b.	Develop plan to provide for augmentation of staff during an event using additional personnel (volunteer and paid)			•		•	
C.	Develop plan for PPE (EMS personnel and patients) acquisition and training			•		•	
d.	When recommended by the CDC follow federal and state guidance, develop a plan for prioritization and administration of antiviral prophylaxis to EMS staff and their families			•	•		
e.	Establish protocols for alternate patient transport and destinations for non-emergent patients			•	•	•	•
f.	Develop protocols for pre-transport patient screening Healthcare Professional Preparedness Checklist For Transport and Arrival of Patients With Confirmed or Possible COVID-19 https://www.cdc.gov/coronavirus/2019-ncov/downloads/hcp- preparedness-checklist.pdf	•	•	•			
g.	Develop policies and procedures for rapid ambulance decontamination	•	•	•			

15. Laboratory testing protocols

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Disseminate guidance to practitioners based on CDC and state health department recommendations and put a system in place to update this information as new data become available.		•	•	•		•
b.	Work with your clinical laboratory and public health officials to determine indications for and availability of COVID-19 test kits CDC Tests for COVID-19 https://www.cdc.gov/coronavirus/2019-ncov/about/testing.html				•	•	•
C.	Work with hospital leadership to develop appropriate inpatient admission testing and patient placement protocols						

16. Alternate locations and staffing for triage and medical screening exams (e.g. mobile units, tents, off-site facility, telemedicine etc.)

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Select one or more alternate locations for triage and/or medical screening exams during a pandemic event.			•	•		•
b.	Develop a staffing plan for the alternate location(s)				•		•
C.	Develop criteria for initiation of use of the alternate location(s)						•
d.	Ensure that any alternate site is designated by the hospital as the appropriate site for a medical screening exam						•
е.	Consult Federal Alternate Site guidance https://asprtracie.hhs.gov/technical-resources/48/alternate-care-sites- including-shelter-medical-care/47		•			•	

17. Off-Site vaccine administration when recommended by the CDC.

	EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Action:						
Work with public health and emergency management to sites and staffing for vaccine administration to the public.			•	•		•

18. Health information call centers

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Develop enhanced protocols for COVID-19 telephone triage.				•	•	•
b.	Develop protocols for call screening and management at public service answering points (PSAP)				•	•	•
C.	Work with local public health to establish social media and telephone center resources to dispense accurate and timely information regarding COVID-19 treatment, home care, criteria for emergency care. https://archive.ahrq.gov/prep/callcenters/				•		•
d.	Utilize existing resources such as poison centers or nurse help lines for this purpose				•		•

19. Configuration of ED waiting rooms for distancing

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Configure waiting areas to separate patients with respiratory symptoms from other patients. Ensure signage at all entry access points with instructions for appropriate triage/treatment areas based on symptoms. Provide appropriate PPE.					•	•
b.	Maximize distance between individuals with respiratory symptoms up to six feet					•	•
C.	Establish protocols for those accompanying patients in the waiting area						

20. Protocols for those visiting patients with fever and respiratory symptoms

	EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Action:						
a. Establish protocols for visitors in treatment areas and inpatient areas					•	•

21. Environmental decontamination capability

	EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Action:						
Establish policies and procedures for rapid decontamination of patient treatment areas (including radiology, if necessary)		•	•			•

22. Off-site mass screening capability

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	tion:						
a.	Establish local health department sponsorship and staffing plans for mass screening sites				•		
b.	Use CDC sanctioned criteria for the self-assessment protocol If you are sick with COVID-19 or suspect you are infected with the virus that causes COVID-19, follow the steps below to help prevent the disease from spreading to people in your home and community. https://www.cdc.gov/coronavirus/2019-ncov/downloads/sick-with-2019-nCoV-fact-sheet.pdf		•		•		

23. Adequate inpatient surge capacity

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Devise protocols for use of alternate care facilities to decompress inpatient units https://asprtracie.hhs.gov/technical-resources/48/alternate-care-sites-including-shelter-medical-care/47						
b.	Establish requirements and investigate process to revise patient staffing ratios						
C.	Identify physical space requirements and capacity (opening unused areas, patient cohorting, doubling up inpatient rooms, canceling elective admits and procedures, and using areas such as post-op recovery for extra critical care space.) Ensure accurate patient tracking.						
d.	Develop alternate staffing and training protocols for ventilator management Project XTREME https://archive.org/details/gov.hhs.ahrq.07-0017-mw.1						•

24. Trained and credentialed volunteers

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Act	ion:						
a.	Assess the requirements (type and quantity) of medical and non-medical volunteers needed during an outbreak				•		
b.	Develop a process for rapid credentialing and just in time training for provider volunteers						•

25. Awareness of SNS surge supplies and capability to receive those supplies

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
Actio	n:						
	Work with state and local public health to establish type and quantity of supplies and resources available to mitigate shortages during a pandemic, for example: • Ventilators (including unique operational characteristics) • Antivirals (If/when recommended by the CDC) • PPE • Antibiotic for secondary infection • Vaccine (if/when available) • COVID-19 test kits			•	•	•	•
b. I	Establish agreements with suppliers to ensure availability (MOU)						

26. Accurate and coordinated public information dissemination

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.
a.	Establish protocols for the use of your local/regional/state joint information center that utilizes coordinated health information dispensed by public health officials.			•	•		•
b.	Ensure that all personnel adhere to the information dissemination protocols			•			•

27. Augmented post-mortem management and mortuary services

		EM National	Federal Gov.	State & Local Gov	State & Local PH	ED	Hosp.	
Action:								
a.	Establish plans and protocols to augment hospital morgue capacity							
b.	Work with local emergency management and local mortuary services providers to expedite handling of victims			•			•	
C.	Interim Guidance for Collection and Submission of Postmortem Specimens from Deceased Persons Under Investigation (PUI) for COVID-19, February 2020 https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-postmortem- specimens.html			•	•		•	

COVID-19 Hyperlinks • Resource List

CDC Guidance – for clinicians on care of patients with COVID-2019

https://www.cdc.gov/coronavirus/2019-ncov/hcp/index.html

Evaluating and Reporting Persons Under Investigation (PUI)

https://www.cdc.gov/coronavirus/2019-nCoV/hcp/clinical-criteria.html

Infection control - COVID-2019

https://www.cdc.gov/coronavirus/2019-ncov/infection-control/index.html

Information on COVID-19 and Pregnant Women and Children

https://www.cdc.gov/coronavirus/2019-ncov/specific-groups/pregnant-women.html

Find your state and local health department

https://www.naccho.org/membership/lhd-directory

COVID-19 Outbreak Tracker. Johns Hopkins

https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6

World Health Organization (WHO)

https://www.who.int/emergencies/diseases/novel-coronavirus-2019

Interim Guidance for Emergency Medical Services (EMS) Systems and 911 Public Safety Answering Points (PSAPs) for COVID-19 in the United States

https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-for-ems.html

Public Readiness and Emergency Preparedness Act

https://www.phe.gov/Preparedness/legal/prepact/Pages/default.aspx

DHHS TRACIE. Coronavirus Topic Collection

https://asprtracie.hhs.gov/technical-resources/44/SARS-MERS/44





COVID-19 Hyperlinks • Resource List

US DHHS National Institutes of Health (NIH) National Library of Medicine (NLM) COVID-19 Resource Page https://www.nlm.nih.gov/index.html#Novel_Coronavirus

WHO on-line course

https://openwho.org/courses/introduction-to-ncov

Network for Public Health Law. Coronavirus Primer. Authorities, etc

https://www.networkforphl.org/resources/emergency-legal-preparedness-wuhan-coronavirus/

Massachusetts General Hospital. 2019 Novel Coronavirus Toolkit

https://www.massgeneral.org/assets/MGH/pdf/disaster-medicine/SARS-CoV-2%20(COVID-19)%20Toolkit%20 Version%203.pdf



For more information acep.org/covid19

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