

New Mexico Statewide Acute Care Medical Surge Plan for COVID-19 Pandemic Response

Prepared by the Medical Advisory Team

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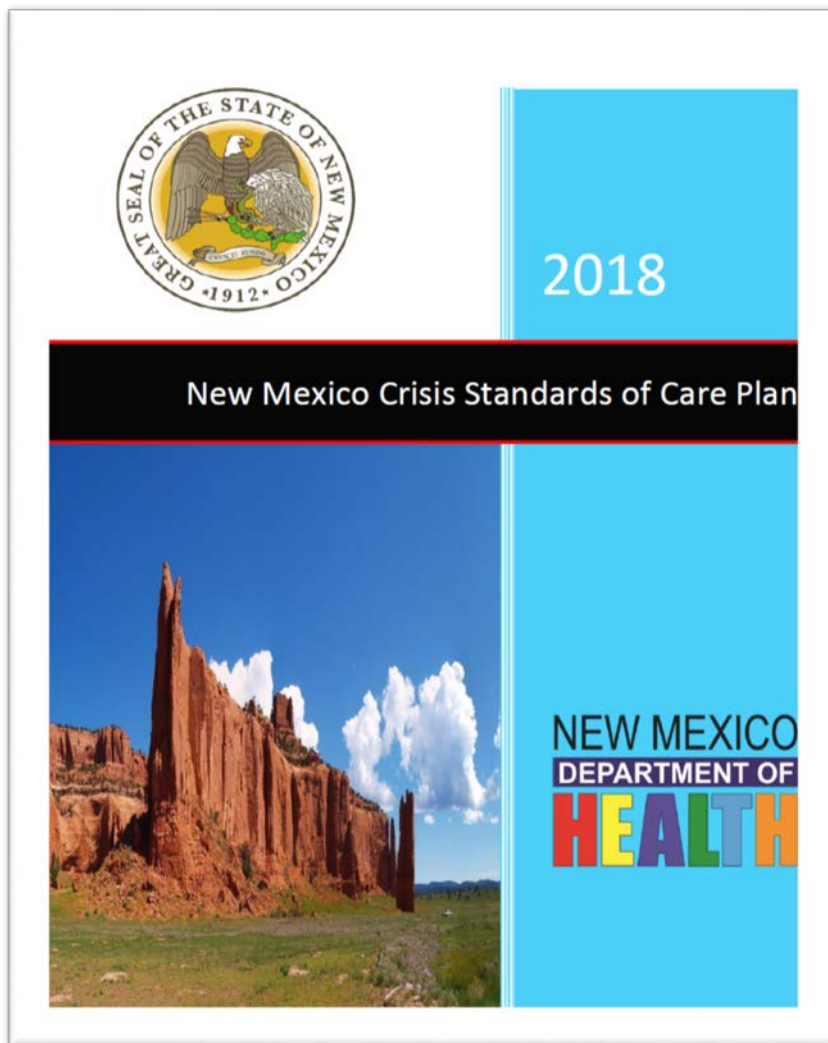


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Overview

On December 31, 2019, several cases of pneumonia with an unknown cause were detected in Wuhan City, Hubei Province, China, and reported to the World Health Organization. The underlying virus giving rise to those instances of respiratory illness was later identified as a novel coronavirus disease named COVID-19. Since it was first identified and reported, COVID-19 has spread globally.

On March 11, 2020, the first confirmed cases of COVID-19 were reported in New Mexico. As a result, Gov. Michelle Lujan Grisham declared a statewide emergency under the All Hazard Emergency Management Act and declared a public health emergency in accordance with the Public Health Emergency Response Act. These proclamations were deemed necessary to minimize the spread and adverse impacts of the COVID-19 in New Mexico.

Modeling of the impact of COVID-19 in New Mexico conducted in late March 2020 indicated that without implementation of significant public health measures, New Mexico could see as many as 4,700 deaths related to this pandemic. Even with implementation of aggressive public health measures, New Mexico could experience a large number of deaths and a swell of intensive care unit patients at the peak of the event. This event will cause major disruption to the health care delivery system, likely requiring activation of Crisis Standards of Care.

This plan serves as a supplement to the New Mexico Crisis Standards of Care Plan and a Functional Annex to the New Mexico Department of Health's Emergency Operations Plan, with the purpose of supporting the New Mexico medical response for the 2020 COVID-19 pandemic. The need for established guidance at this critical time necessitated the expedited development of this framework using the New Mexico Medical Advisory Team process (see [Appendix](#)). This guidance is also based on other well-established plans, such as the Missouri Hospital Association Framework for Managing the 2020 COVID-19 Pandemic Response and Implementing Crisis Standards of Care and the Utah Crisis Standards of Care (2019).

For the purposes of the plan, the term *medical surge* describes the ability to provide adequate medical evaluation and care during events that exceed the limits of the normal medical infrastructure of an affected community. This includes both surge *capacity*, which is the ability to evaluate and care for a markedly increased volume of patients, and surge *capability*, which is the ability to manage patients requiring unusual or very specialized medical evaluation and care.

Crisis Standards of Care

In catastrophic disasters, such as the COVID-19 pandemic, health care resources may become so scarce that re-allocation decisions are needed, staff may have to practice outside of their normal scope of practice, and the focus of patient care may need to switch to promoting benefits to the entire population over benefits to individuals.

In such crisis situations, strategies are necessary to avoid greater illness, injury and death by enabling more effective use of limited resources. In addition, the use of a fair, just and equitable process for making decisions about who should receive treatments that have limited availability, such as ventilators, is crucial.



The Institute of Medicine (IOM) has defined Crisis Standards of Care (CSC) as a substantial change in usual health care 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. CSC guidelines are the means to mount a response to an incident that far exceeds the usual health and medical capacity and capabilities of a medical community.

Under these circumstances, medical care shifts from focusing on individuals to promoting the thoughtful use of limited resources for the best possible health outcomes for the population as a whole. Resources are shifted to patients for whom treatment would most likely be lifesaving and whose functional outcome would most likely improve with treatment. Such patients should be given priority over those who would likely die, even with treatment, and those who would likely survive without treatment.

The Agency for Healthcare Research and Quality developed the following characteristics of altered standards of care that might be manifest during a surge situation:

- Equipment and supplies will be in short supply and will need to be allocated to save the most lives.
- There will be an insufficient number of trained staff.
- Severe delays and backlogs in emergency and hospital care will likely exist.
- Treatment decisions may need to be based entirely on clinical judgment as other diagnostic tools become inaccessible.

Continuum of Care

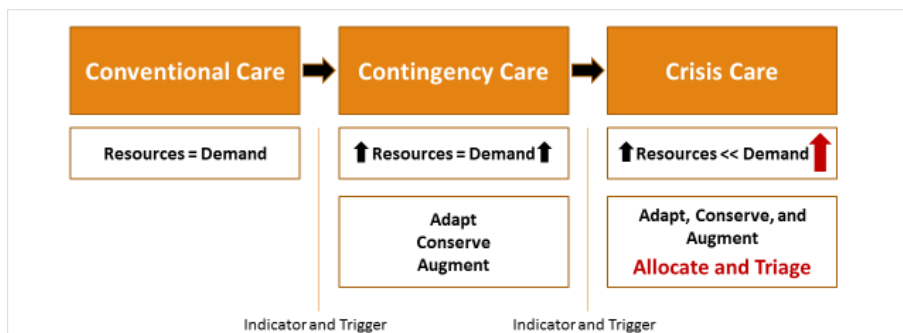
The IOM defines three levels of care within the Concept of Operations of Crisis Standards of Care, which serve as the basis for determining likely levels of resources and staffing during a disaster. The following levels are the basis for Crisis Standards of Care planning:

Conventional Care: The demand for care is less than the supply of resources. Level of care is consistent with daily practices in the institution.

Contingency Care: The demand for care surpasses conventional resource availability, but it is possible to maintain a functionally

equivalent level of care by using contingency care strategies of adapting, conserving and augmenting. The facility's Emergency Operations Plan is activated during this phase. Although clinical operations may be significantly altered, resources typically are matched to demand.

Crisis Care: As the demand for care surpasses resource supply despite contingency care strategies. The normal standard of care cannot be maintained and allocation and triage strategies must be implemented.



Activation of Crisis Standards of Care

At the time of this document's creation, New Mexico's health care system was well into the implementation of contingency-level care to support public health measures and in anticipation of increased healthcare needs. The movement into contingency-level care statewide was mandated by Public Health Order. Examples of escalating contingency care activities have included:

- Limiting hospital visitation
- Cancelling elective surgical care
- Modification/reduction of non-essential ambulatory care

The transition from Contingency Care into Crisis Care will become necessary when demand for care of COVID-19 patients exceeds capacity to meet that demand. International and domestic experience with COVID-19, confirmed with New Mexico-specific modeling, clearly indicates that New Mexico will reach this level, even with aggressive public health measures.

The next steps in the activation of crisis standards are being identified and implementation guidelines area being developed. The operating principles of the continuum of care are described in the table below:

Hospital Continuum of Care Model SITUATION	Conventional	Contingency	Crisis
SURGE STATUS	Hospitals utilize normal bed capacity. Occasional and temporary surges of demand may occur that are temporary and may incur longer wait times for non-critical care as hospitals, ICUs, and emergency departments temporarily reach capacity.	Hospitals have surged beyond maximum bed capacity. Emergency Operations Plans are in effect. Elective procedures delayed. Hospitals may be adding patients to occupied hospital rooms and non-patient care areas. Community health care facilities may be requested to surge. Alternate care sites may be opened.	Expanded capacity is still not sufficient to meet ongoing demand for care. Some patients needing care cannot be admitted to hospitals and instead will be sent home or to alternate care sites. Hospitals are adding patients to occupied hospital rooms and non-patient care areas. Community health care facilities are operating beyond normal scope of practice.
RESOURCE LEVEL	Occasional, limited resource shortages may occur, typically of non-critical supplies or medications with substitution as the most common resource sparing strategy.	Some resources are becoming scarce. Attempts at conservation, reuse, adaptation, and substitution may be performed.	Some or even many critical resources are unavailable, potentially including hospital beds, ventilators, and medications. Critical resources are re-allocated to help as many patients as possible.
STAFF	Usual staffing. Hospital staff absenteeism is not a large problem.	Staff extension (increased patient/provider ratios, expanded scope of practice). Hospital staff absenteeism may be a problem.	Staffing levels at critical shortage. Staff are operating outside normal scope of practice and greatly increased patient/ provider ratios. Hospital staff absenteeism may be greater than 30%.



Duty to Plan

Hospitals must rapidly develop or augment their medical surge and resource conservation plans that move from Conventional to Contingency to Crisis levels of care for a COVID-19-specific response. During this declared public health emergency, the goal is to remain in Contingency status to the extent possible and avoid moving to Crisis Capacity. Strategies for remaining in Contingency Capacity may include:

- Canceling elective procedures and surgeries to increase capacity.
- Early discharge or transfer of appropriate patients to home or less-acute levels of care.
- Transferring less-acute patients from medical surgical units to alternate care sites, with the assistance of case managers and discharge planners.
- Transferring post-acute and behavioral health patients from acute settings into other appropriate settings.
- Expanding critical care capacity into areas such as post-anesthesia care units, surgical suites and outpatient care units.
- Expanding patient care areas to include hallways and private rooms.
- Expediting admissions to move patients from the emergency department to patient care units.
- EMTALA-compliant screening of individuals seeking care, in coordination with EMS or other medical direction, to determine the most appropriate setting for care, including an established alternate care site for less acute patients.

Medical Surge Planning

New Mexico hospitals must prepare for the expected large number and special needs of COVID-19 patients. The CDC [Hospital Preparedness Assessment Tool](#) is an important first step. Strategies to maximize capacity for patients requiring hospitalization include:

- Conversion of specialty units, such as post-anesthesia units, outpatient and surgical areas, into critical care areas.
- Conversion of medical-surgical units to high-acuity step-down units.
- Expansion into non-patient care areas based on supplies, staff and functionality.

Concept of Operations

Guiding Principles

Implementation of a COVID-19 medical surge plan in New Mexico should consider the following:

- The New Mexico health care system must maintain critical services during a pandemic, including acute cardiac, obstetric, trauma and burn treatment.



- Levels of response should be established based on current disease burden, with clear triggers to initiate the next level of response.
- Patients should be cared for in their local community to the greatest extent possible.
- The availability of ambulances is a significant limiting factor in a statewide response to a pandemic.
- The availability of Personal Protective Equipment, including masks, gloves, gowns, for health care providers, is a pervasive concern both domestically and internationally for the COVID-19 response.
- New Mexico's health care system is fragile, and many services are provided in facilities with limited capacity and capability, particularly in rural areas.
- Many independent providers and provider organizations lack adequate reserve funding to maintain workforce.
- Actions taken by the Governor and the Secretary of Health can have immediate and powerful impacts on the ability of the health care system to respond, but all public health emergency actions must take into consideration unintended consequences for the health care system and its workforce.

Change in Operational Model

An optimal response to the COVID-19 pandemic requires two significant operational changes to the overall approach to the New Mexico Hospital and Health System: 1) Modification of the patient referral system and approach and 2) Collaborations and management of some aspects of the delivery system through a centralized call center.

Patient Referral to Central Delivery Systems Hospitals

During a time when demand for transfers of patients to higher levels of care will exceed the capacity to accept and transport patients, a triage approach coordinated from a central location that matches the highest-priority patients with the most appropriate facility with capacity will lead to the best use of resources. One significant and essential modification of patient referral approaches that should occur under crisis care is a shift from the relatively inefficient "pushing" of referrals into a higher level of care to "pulling" patients into a higher level of care through a coordinated central process.

Central Call Center

Establishing a coordinated approach is a significant undertaking that will require an agreement to utilize common technology and then operationalizing all of the elements of a call transfer center. It will also require the rapid development of triage protocols and identification of health care professionals who can make complex and difficult triage decisions with limited information.

Modeling and Analysis

Medical surge planning for response to a disease outbreak should be based on the best information available regarding the spread of the disease and the number of people affected in each community. To guide planning efforts, the New Mexico Department of Health will direct the creation and maintenance



of state-based and regional models to demonstrate predicted COVID-19 spread, the impact of social distancing and other prevention measures, and use of healthcare resources. Models created by subject matter experts from the New Mexico Department of Health, Presbyterian Health Services, Los Alamos National Laboratory and Sandia National Laboratories will be compared and aligned to create the best forecast available for the state. Models will be based on measures that describe best to worst case scenarios to provide the widest possible view of the predicted critical healthcare needs in each region. Modeling factors related to the predicted rate of spread will be adjusted regularly to reflect actual conditions. The use of specific healthcare resources will be forecasted by county and will include medical and surgical beds, negative pressure and isolation rooms, ICU beds, ventilators, and respiratory therapy staff.

The most up-to-date discussion of modeling results can be seen during the regular press conference provided by Governor Michelle Lujan Grisham, streamed and archived here:

<https://www.facebook.com/GovMLG/>

The modeling results and processes are posted on the New Mexico Department of Health's COVID-19 website: <https://cvmodeling.nmhealth.org/>

Regionalization

Regional Care Planning

The most efficient model of healthcare delivery, particularly during a healthcare crisis, is through a regionalized structure. This is especially important in New Mexico because of our vast land mass and the rurality of many communities. The purpose of a regionalized care structure includes:

- Providing a supportive infrastructure for smaller hospitals that allows for patients to be cared for *within their own communities*.
- Utilizing a *hub-and-spoke model* that involves a larger hub hospital that serves as a resource for smaller satellite hospitals or spokes within the region.
- Conserving advanced care resources
- Ensuring that patients receive the correct level of care within the correct delivery system and as close to home as possible.

In order to ensure that the New Mexico regional model was implemented successfully, planning meetings were held (virtually) in late March 2020 with each regional hub hospital CEO or leadership team designee to discuss the model, surge plans, and answer questions. In addition, the Regional Care model was discussed (virtually) with New Mexico Hospital Association members in early April to allow input from rural hospital leaders regarding the structure of the model.

Hub-and-Spoke Model for New Mexico

The hub-and-spoke model as applied in healthcare is a framework that involves a hub hospital that serves as a connection point for smaller satellite hospitals or spokes within the region. Typically the hub hospitals are those that have larger infrastructures, available resources and possess the ability to



provide a higher level of patient care than that of the spoke hospitals. For the purpose of this plan, seven hospitals, located in four quadrants of the State were identified to serve as hub hospitals for their region.

Regional hub facilities include:

Central Region:

- Lovelace Medical Center, Albuquerque, Troy Greer, CEO
- UNM Hospitals, Albuquerque, Mike Chicarelli, COO
- Presbyterian Hospital, Albuquerque, Clay Holderman, EVP/COO

North Central Region:

- Christus St. Vincent, Santa Fe, Lillian Montoya, CEO

Northwest Region:

- San Juan Regional Medical Center, Farmington, Jeff Bourgeois, CEO

South Central:

- Memorial Medical Center, Las Cruces, John Harris, CEO

Southeast Region:

- Eastern New Mexico Medical Center, Roswell, Warren Yehl, CEO

Each regional hub leader is expected to make contact with their respective spokes in order to discuss the plan and answer questions or evaluate concerns. The table below represents ICU specific surge capability by hub and spoke region.

Role of Hub Hospitals	Role of Spoke Hospitals
Check in via phone call to your assigned "Spoke Hospitals" assess specific needs	Coordinate with Hub hospital on patient transfers and
Peer-to-peer collaboration with other hubs	Communicate plan with hospital and medical staff
Assure information sharing within region	Keep Hub updated on any changes of status or specific needs
Coordinate with Central Command Center specific to needs of hub or spoke hospitals and significant changes in status	Be prepared to support Hub hospital in a situation of census disparity
Serve as a supportive connection point for satellite hospitals	
Support spoke hospitals as a higher level of care	
Coordinate the distribution of equipment and supplies provided by outside sources (State of NM, FEMA, Strategic Stockpile, etc.)	



New Mexico Hub-and-Spoke Hospitals

CENTRAL REGION HUB	SPOKE HOSPITALS
UNM Hospitals, Abq, Mike Chicarelli, COO Presbyterian Hospital, Abq, Devon Hyde, HCE Lovelace Medical Center, Abq, Troy Greer, CEO	UNM Sandoval RMC, Rio Rancho, Jamie Silva-Steele, CEO
	Kindred Hospital, ABQ, Larry Rodgers, CEO
	Encompass Health, ABQ, Rachelle Spencer, CEO
	Haven Behav. Hospital, ABQ, Jennifer Barut, CEO
	Central Desert Behav., ABQ, Kelley Whittaker, CEO
	Presbyterian Rust, Rio Rancho, Angela Ward, HCE
	Kaseman Presbyterian, ABQ, Doyle Boykin, HCE
	Socorro General Hospital, Veronica Pound, HCE
	Lovelace Womens Hospital, ABQ, Sheri Milone, CEO
	Lovelace Westside Hospital, ABQ, Amy Blasing, CEO
	UNM Lovelace Rehab., ABQ, Derrick Jones, CEO
	Zuni Comprehensive Health Center, Jean Othole, CEO
	Rehoboth McKinley Christian, Gallup, David Conejo, CEO
	Gallup Indian Medical Center
	Cibola General Hospital, Grants, Thom Whelan, CEO
Acoma Canoncito Laguna Hospital	
NORTH CENTRAL REGION HUB	SPOKE HOSPITALS
CHRISTUS St. Vincent, Santa Fe, Lillian Montoya, CEO	Alta Vista RMC, Las Vegas, Caleb O'Rear, CEO
	Union County Hospital, Clayton, Tammie Stump, CEO
	Miners' Colfax Medical Ctr, Raton, Bo Beames, CEO
	Holy Cross Hospital, Taos, Bill Patten, CEO
	Espanola Hospital, Brenda Romero, HCE
	Los Alamos Medical Center, John Whiteside, CEO
	Presbyterian Santa Fe Medical Center, Jon Wade, HCE
NORTHWEST REGION HUB	SPOKE HOSPITALS
San Juan RMC, Farmington, Jeff Bourgeois, CEO	Northern Navajo Medical Center
	Crownpoint Health Care Facility
SOUTH CENTRAL REGION HUB	SPOKE HOSPITALS
Memorial Medical Center, Las Cruces, John Harris, CEO	MountainView RMC, Las Cruces, Derrick Cuenca, CEO
	Gerald Champion RMC, Alamogordo, Jim Heckert, CEO
	Sierra Vista Hospital, T or C, David Faulkner, CEO
	Gila Regional RMC, Silver City, Richard Stokes, CFO
	Mimbres Memorial Hospital, Deming, Gary Poquette, CEO
	Advance Care of So. NM, Las Cruces, Claudia Saiz, CEO
	Rehab Hospital of So. NM, Las Cruces, Sabrina Martin, CEO
	Mesilla Valley Hospital, Las Cruces, Ana Laloitis, CEO
	Peak Behav. Hospital, Santa Teresa, Sandra Emanuel, CEO
SOUTHEAST REGION HUB	SPOKE HOSPITALS
Eastern NM Medical Center, Roswell, Warren Yehl, CEO	Lovelace Regional, Roswell, Buddy Daniels, CEO
	Lincoln County Medical Ctr., Ruidoso, Todd Oberheau, HCE
	Artesia General Hospital, Cory Yates, CFO
	Carlsbad Medical Center, Cathy Hibbs, CEO
	Nor-Lea General Hospital, Lovington, David Shaw, CEO
	Lea Regional Hospital, Hobbs, Dan Springer, CEO
	Guadalupe Co. Hosp., Santa Rosa, Christina Campos, CEO
	Trigg Memorial Hospital, Tucumcari, Troy Clark, RVP
	Mescalero Indian Hospital, CEO Dorlynn Simmons
	Plains RMC, Clovis, Drew Dosta, HCE
	Roosevelt General Hospital, Portales, Kaye Green, CEO



- Triaging MDs at all hospitals following the state-approved medical protocol.
- Bed availability updated each day by 0700 using the existing EMResource bed management system.
- Patients not in need of intensive care will be encouraged to stay in their current hospital.

Alternative Care Sites

The number of patients with COVID-19 is predicted to exceed the State's normal healthcare capacity at the end of April or in early May. We expect that the demand for patient care will exceed the current supply of workforce, equipment, medical supplies and EMS transportation. It is uncertain at this time what assistance will be provided by the Federal government. New Mexico is therefore planning to identify and synchronize alternative care sites in order to expand the capacity of local health care systems to handle the anticipated surge of COVID-19 patients.

Working in partnership with local agencies and using state authority, available facilities such as sub-acute health care facilities, hotels and commercial facilities will be accessed to serve COVID-positive patients who are recovering and have been discharged from hospitals. Staffing plans for these step-down facilities will be developed, using workers who have been displaced due to closed outpatient and scheduled visit clinics. The COVID-19 modeling and predictions will drive the timeline, and we will respond and adapt as needed.

The following principles will guide alternative care site planning:

1. The primary purpose of the alternative care site is to create and expand bed capacity to serve COVID-19 patients who are too sick to be at home and who still need care, and COVID-19 patients transferred from hospital who require additional care.
2. The planning team will define appropriate alternative site care as general, low-level care for mildly to moderately symptomatic COVID-19 patients. This includes patients who may need oxygen (2L/min., or less), who do not require extensive nursing care, and who can generally move about on their own.
3. The best way to care for our patients is through coordination/collaboration among local hospitals to achieve unity of effort as a single health care system.
4. Larger hospitals are best positioned to expand intensive care units and medical ward capacity as part of the single health care system
5. Alternative care sites should complement and integrate into the local health care system.
6. The local health care system should validate the role and purpose of the alternative care site.
7. Alternative care sites should only be utilized for COVID-19 patients.
8. Available health care facilities with oxygen infrastructure, such as shuttered hospitals and nursing homes, can be more easily and quickly converted to alternative care sites.
9. The anticipated geographic spread of COVID-19 should guide the establishment of alternative care sites

The planning team will use best practices and lessons learned from the early outbreak of COVID-19 in Washington and the Concept of Operations provided by FEMA.



Crisis Standards of Care Transport Plan

This Acute Care Medical Care Surge Plan includes coordination of transportation of patients for care at hospitals and skilled nursing and long-term care facilities. The transport plan is based on the development of Emergency Medical Services (EMS) COVID Strike Teams, made up of EMS transport vehicles located in the Albuquerque area, Santa Fe, Las Cruces, Clovis, and ideally Carlsbad, Farmington, Hobbs, and Portales. The goal is for each team to have a dedicated crew that has received any necessary updated training on transporting ventilated patients, PPE, and any other identified needs according to the capability of the unit. The utilization of these vehicles will supplement available facility-owned non-emergency transport, and will not impact the normal 911 coverage for the community from which they originate.

Supplementing the ground transport capability will be the available air ambulance components of the NM EMS system, which have the capability of relatively rapid response, and critical care level care. A second critical aspect of the plan is the success of the Central Communications Center. This center will be the clearinghouse for all critical care patients being transferred from any of the 44 acute care hospitals needing to transfer a patient to one of the 7 designated hub hospitals.

For COVID related medical control, there will be EMS physicians on call to provide necessary advice and guidance. The contact number for medical control will be provided to the transfer resource.

Should civilian resources be expended or otherwise unavailable, the dispatcher will contact the State EOC to request National Guard ground or air assets as appropriate. The New Mexico National Guard has offered the use of approximately 10 Forward Litter Ambulances (FLA's) and 5 UH-60 Blackhawk Helicopters. The FLA's will be staffed with EMT-Basics, and capable of transporting up to 4 non-ventilated patients. The UH-60's will have the capacity to transport 2 ventilated patients simultaneously.

Regulatory changes have been made to allow for expanded Emergency Medical Services across state. In addition, the New Mexico Emergency Medical Services Bureau has developed recommendations for local EMS operations based on national guidelines.

Recommendations for EMS patient care and safety during COVID-19 can be found at:
<https://nmhealth.org/publication/view/guide/5650/>

Information regarding changes to EMS licensure processes can be found at:
<https://nmhealth.org/publication/view/form/5774/>

Workforce Expansion

One of the greatest challenges in managing the COVID-19 response will likely be the supply of staff and the skill level of the staff available. Hospitals will see the acuity of patients rise dramatically, with many patients requiring ventilatory assistance and other specialized care.

More health care workers will be needed in order to provide surge-level care for the state's COVID-19 patients. Several strategies will be used to meet this need:



- The Medical Advisory Team will identify **available health care professionals** who are not currently providing health care in a New Mexico hospital. Healthcare teams may be used in which one experienced provider mentors and supports a small group of less-experienced members of the health care team (similar to the hub and spoke model used for the hospitals).
- **New Mexico Medical Reserve Corps**, which has extensive experience in deploying volunteers in declared emergencies, will serve as the backbone for recruitment and verifying licenses and performing background checks for identified individuals.
- **Emergency Licensure:** The New Mexico Medical Board, the Board of Pharmacy, and many other licensing agencies have emergency licensure provisions. The Medical Advisory Team will identify avenues by which licensed out of state healthcare providers can be licensed by the appropriate board so they may practice in the state.
- **Redeployment:** During this period of Contingency Care, when only essential services are being provided, medical staff in non-essential services can be redeployed to anticipated medical surge areas. This brief window offers an opportunity to provide just-in-time training to prepare those staff for new clinical duties and responsibilities. Hospitals will re-deploy operating room and procedural area staff into emergency room, ICU and transport roles, and begin to develop competence to cover surge in those areas.
- **Expanded Scope of Practice:** The state will implement all relevant expanded scopes of health care and public safety practice available in the Public Health Emergency Response Act and individual professional licensing regulations.

Other Sources of Expanded Workforce: The following categories have been targeted as potential sources of additional health care professionals: Medical Reserve Corps volunteers, private sector physicians who are currently not providing care, unemployed health care professionals, school nurses, licensed higher education faculty and staff, and providers who have allowed their licenses to lapse. Retired healthcare providers or others in high-risk groups for COVID-19 may be able to provide consultation and triage via telehealth.

Individuals who received their health care training outside of the United States might be utilized, however, this should not be regarded as an avenue to licensure, and participation must be reviewed on a case-by-case basis. Clinical staff in administrative positions should return to clinical care as much as possible. Staff should practice “at the top of their license” (i.e., respiratory therapists could focus on managing ventilators and eliminate most other responsibilities). Nursing staff should concentrate on IV medication administration and assessment, while deferring basic personal care, feeding, etc., to health care assistants, vetted volunteers, or family members, if present. Flexible staffing and patient assignment models may be needed to allocate key personnel to the most pressing patient needs.

Health care professionals may be asked to work in capacities not necessarily directly aligned with their profession. For example, OTs and PTs may be asked to work as health care team extenders. Current health care students could be called upon.

Training and Support will include:

- Maximizing existing real-time telehealth-based provider support for critical care that is currently in place in multiple rural hospitals
- Providing health care providers with clinical support and training on key considerations in COVID-19 care and treatment using UNM’s Project ECHO model and other remote learning services



- Maintaining focus on supporting COVID-receiving facilities across the state in expanding ICU capacity and capability and preparing staff to function in critical care roles

Other key considerations for staffing include:

- **Childcare, Adult Care, Pet Care** – In-home day care or small group care may have to be arranged. School closures are widespread, leaving young children at home. Hospitals may consider flexible options, like staffing opposite shifts for staff who agree to alternate in providing care for one another’s parents, pets and children. However, such plans must consider the risk of viral transmission attendant to such arrangements.
- **Staff Safety** – Facilities should address competency with just-in-time training related to the PPE provided and the care techniques practiced.
- **Housing** – Providers at risk of acquiring infection may be able to request alternate housing to avoid exposing family members – on- and off-campus options may be needed.
- **Communication** – Staff should be informed about the contingency and crisis practices being implemented and the reasons for these decisions. It is important to consider providing the same information in a variety of ways and multiple times, as health care staff are stressed and tired. When guidelines and processes change daily, over-communication is a good practice.
- **Shift Type/Length** – Shifts should be varied to avoid fatigue and burnout.
- **Support, Information and Training** – Medical assistants, environmental services and information technology personnel, transporters and other ancillary staff should be included in staffing plans.

Clinical Care

The unique challenges of treating a novel disease and the fast-moving scientific discoveries related to COVID-19 will require healthcare providers and State leaders to stay in tuned to a large amount of new information. The Medical Advisory Team will engage healthcare experts across many specialties to review new federal regulations and recommendations, as well as published research related to COVID-19. Regular updates and additions to the MAT Clinical Care Workgroup recommendations for the general areas identified below will be posted on the New Mexico Department of Health’s COVID-19 website: <https://cvmodeling.nmhealth.org/medical-advisory-team/mat-resources/>

Essential Personal Protective Equipment (PPE) for COVID-19

Under current Contingency Care – and the possible transition into Crisis Care – it is critical to understand burn rates and par levels for PPE. Each health care facility in New Mexico should create policies and guidelines for maximal conservation and recycling of PPE. Facilities must ensure that health care workers understand the minimum requirements for PPE under Crisis Standards of Care. The primary goal is to assure availability of PPE for health care personnel. Directive suggestions can help guide facilities to understand their options.



Burn Rates

Each health care facility should calculate its current PPE burn rates (rate of use) to determine current days-on-hand supplies of all essential PPE. Each facility should set a target of keeping at least seven days of PPE on hand, and increase supply orders accordingly, keeping in mind there may be unanticipated supply chain interruptions.

The Centers for Disease Control and Prevention has created an online burn rate calculator that uses a box-counting methodology, available at: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/burn-calculator.html>

Conservation

In order to ensure required supplies of personal protective equipment for health care personnel during the COVID-19 crisis, acute care and ambulatory facilities should develop policies and procedures to conserve PPE. The CDC suggests the following:

- Maximize Engineering Control: Provide physical barriers, such as glass or plastic windows at reception areas, curtains between patients, etc.
- Maximize Administrative Controls: Limit visitations, group patients according to medical need, share tasks for Healthcare Providers, etc.
- Maximize PPE Conservation: Methods should be devised for conserving N95-type respirators. CDC guidance offers a series of strategies for how health care facilities can optimize supplies of disposable N95 filtering facepiece respirators when supplies are limited. CDC guidance to optimize PPE supplies is also available for eye protection, isolation gowns and face masks. Acute care and ambulatory facilities should develop policies, standards and training for the extended use and reuse of N95-type respirators and other PPE as appropriate.
- Recycling and Re-Use: In order to maximize the supply of PPE, especially N95-type respirators, New Mexico acute care and ambulatory facilities should implement structures and policies for the extended use, reuse, and recycling of N95-type respirators using ultraviolet light or vaporized hydrogen peroxide and follow manufacturer's instructions for respirator specific-reuse.
- Reprocessing: Facilities can also work with the Department of Health to leverage the Battelle Critical Care decontamination System (CCDS) located at the Santa Ana Star Center for reprocessing of available PPE. Facilities can enroll for use of this reprocessing technology at: ww.battelle.org/decon.

ICU and Ventilators

A team of clinicians has developed clinical care decision-making guidance under Crisis Standards of Care (CSC), including:

- Defining the minimum standards and requirements for acquiring ventilators under CSC
- Standards for operating and managing modified ventilators and shared ventilation devices
- Minimal ventilation management standards for non-ICU clinicians
- Clinical Care Standards under CSC (e.g. triage rules, nursing/patient ratios)
- Clinical transfer criteria under CSC through a central transfer center



- ICU admission criteria under CSC
- Standards for using non-invasive ventilators with COVID-19 positive patients (e.g. CPAP and BiPAP machines)

Drugs and Therapeutics

A group of researchers, academics and clinicians will review the drugs and other therapies available for treatment through clinical trials, other protocols and experimental treatments including convalescent plasma. This group will provide guidance and protocol suggestions for these as they become available and will provide updated guidelines as additional peer-reviewed scientific publications are released describing the safety and efficacy of these therapeutic approaches.

Testing

A team of clinicians and pathologists is assisting the New Mexico Department of Health to determine guidelines and capacity expansion options for COVID-19 testing based on the most up-to-date recommendations and information available from the CDC and FDA, including:

- Statewide testing capacity
- Prioritization of tested populations
- Appropriate testing sites for point of care testing and priorities for testing groups
- Indications, availability and validity of serum testing

Innovation

A team of clinicians, population health experts and business entrepreneurs is investigating and executing on alternative sources to supplement clinical equipment and PPE in short supply in New Mexico, such as:

- Investigation of alternative ventilator resources and fabrication
- Investigation of alternative PPE resources and fabrication
- Development of advanced telemedicine resources for health care

Behavioral Health

The COVID-19 outbreak, as well as the measures to contain it, are expected to impact the emotional health of New Mexicans. The Behavioral Health Workgroup is developing guidance to help people who are living with substance abuse disorders and serious mental health disorders and those who support them and provide treatment services.

Areas of planning needs related to behavior health include:

- Developing a process for safe treatment of COVID-19 for seriously mentally ill individuals that is capable of responding to both needs



- Developing a process to respond to the danger of alcohol withdrawal resulting from social distancing and closure of liquor stores, in order to prevent deaths from unattended withdrawal and reduce presentations to ERs and other health care settings by people in withdrawal from alcohol
- Blunting the expected increase in incidents of domestic violence stemming from lack of access to resources for victims and increased stress on families
- Ensuring the availability of in-patient and out-patient behavioral health and detoxification services

The Behavioral Health Workgroup has begun outreach to city, county, and Tribal and Pueblo leaders to increase awareness about the need for harm reduction, and will develop PSAs and other public education resources.

Update Schedule

This plan will be updated each Friday and a new version will be distributed and posted online at:

<https://cvmodeling.nmhealth.org/medical-advisory-team/>

Appendix

Medical Advisory Team

Purpose of Medical Advisory Team

In accordance with the 2018 New Mexico Crisis Standards of Care Plan and following the declaration of the Public Health Emergency, the Department of Health activated a Medical Advisory Team (MAT). The MAT serves in an advisory role to the Department of Health Leadership Team to:

- **Facilitate Coordination and Planning**
- **Develop Recommendations, Guidelines or Protocols**
Escalate based upon increasing demand or scarcity
Use indicators and triggers for escalation
- **Provide Guidance**
Prepare to address emerging questions
Source for expert opinion
Source for identification of resources

Medical Advisory Team Structure

The Medical Advisory Team (MAT) is composed of three main groups that report the DOH Leadership Team:

- Operations Group
- Hospital and Health System Group
- Crisis Standards of Care Workgroups



Operations Group: The MAT Operations Group provides overall coordination and management. Members of the Operations Group include the MAT chair, administrative leadership assigned to support MAT, Department of Corrections liaison, chairs of the Hospital and Health System Group, chairs of each of the CSC Standard of Care Workgroups, and DOH officials as needed.

Hospital and Health System Group: The Hospital and Health System Group is composed of representatives of the designated key referral hospitals (hubs), Indian Health Service, and the Albuquerque Area Veterans Affairs Hospital. One member of the group will serve as chair.

Crisis Standards of Care Workgroups: The MAT will establish workgroups as necessary to carry out its purpose and functions. These workgroups may establish subgroups as necessary. The current workgroups include:

- Regional Care
- Clinical Care
- Transportation
- Modeling and Analytics
- Skilled Nursing/Long-term Care
- Workforce
- Behavioral Health
- Legal and Ethics
- Communication

The recommendations provided by the MAT for clinical care and healthcare operations related to the material in this Acute Medical Surge Plan document have been posted on the NMDOH COVID-19 website:

<https://cvmodeling.nmhealth.org/medical-advisory-team/mat-resources/>

