

# PREPARE. Responding to COVID-19

Seattle City Council Briefing April 13, 2020

## Objectives

- About Northwest Healthcare Response Network
- Building blocks of medical surge planning
  - Hospital/health system
  - Regional
- Considerations as we move forward

## The Challenge We Face

- U.S. healthcare system based on independent, competing marketplace of providers (no central planning)
- Pandemics overwhelm individual providers, counties, regions, states
- Successful response requires effective collaboration
  - Public Health works to prevents spread of disease
  - Clinical health works to treat disease

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## About the Network



We lead regional healthcare collaboration to effectively respond to and recover from emergencies and disasters.





## We are part of a disaster response system

Many agencies and partners supporting healthcare readiness and surge planning:

- Governor's Office
  - Vice Admiral Dr. Raquel Bono, Director for COVID-19 Health System Response Management
- WA Department of Health and Washington Emergency Management Division
- Washington State Hospital Association and numerous other provider and health care associations and groups
- Healthcare Coalitions
- Healthcare organizations and providers and emergency medical services
- Local public health and emergency management
- And many others!



## Overarching State framework for surge

- Strategies to support hospitals and healthcare organizations in maximizing
  - Space
  - Staff
  - Supplies
- Response coordination across coalitions and the state
  - Situational awareness
  - Resource sharing
  - Bed management
- Clinical guidelines for patient care during surge and resource scarcity
- Policies to support these activities



## Work we are doing

- Providing situational awareness about hospital capacity and resource needs across the region by gathering and sharing information
- Convening clinical leaders, clinical advisory committees and subject matter experts to develop statewide guidance and tools to support implementation of medical surge strategies
- Convening healthcare and public health practitioners across the region to share best practices, identify gaps and coordinate on solutions
- Supporting state and local medical surge solutions, such as regional planning coordination Regional COVID Coordination Center (RC3) with UW Medicine



## NWHRN COVID-19 Response: Situational Awareness

Providing situational awareness about hospital capacity and resource needs across the region to provide common operating picture and decisional support

- Daily hospital situational awareness tracker (in partnership with WSHA)
  - Key resources (examples)

➢ PPE

- ICU and other bed availability
- > Ventilators
- Future statewide launch by DOH of additional dashboards and tools

Date	Hospitals Reporting	Total Patients Hospitalized with COVID-19	Total Patients in the ICU with COVID-19
4/3/2020	67	596	222
4/4/2020	52	574	174
4/5/2020	50	581	178
4/6/2020	78	638	191
4/7/2020	82	641	190
4/8/2020	86	655	186

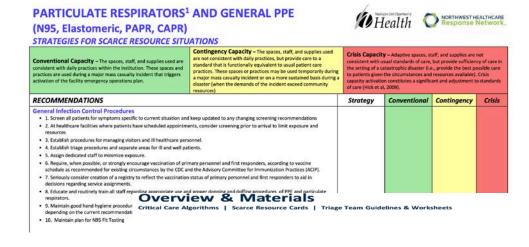
Patients Hospitalized and in the Intensive Care Unit (ICU) with Laboratory-Confirmed COVID-19



## NWHRN COVID-19 Response: Developing clinical guidelines and tools to support surge

Providing standardized clinical guidance and resources to support healthcare providers with surge management

- WA DOH State Disaster Medical Advisory Committee and Disaster Clinical Advisory Committee
- Guidelines and clinical tools to support surge:
  - Conservation and mitigation strategies
  - o Scarce resource management





## NWHRN COVID-19 Response: RC3

Provide regional coordination and support to implement Regional COVID Coordination Center(RC3)

- Regional COVID Coordination Center (RC3)
  - o Administered by UW Medicine Harborview Medical Center
  - Established based on the Disaster Medical Coordination Center model to triage and place COVID-19 patients requiring acute emergency department or inpatient hospital care in an equitable manner.
  - Designed to balance patient placement and transport to individual or multiple hospitals with sufficient capacity in order not to strain the resources of any single hospital or small group of hospitals.
  - Collaboration with and local health systems and organizations



## NWHRN COVID-19 Response: RC3 support

Provide regional coordination and support to implement Regional COVID Coordination Center(RC3)

- NWHRN augments support to RC3 during response and surge events by providing:
  - Support for situational awareness
  - Convening healthcare organizations or partner organizations
  - Facilitating mutual aid and resource sharing across organizations
  - o Coordination with state and local public health and emergency management



## Moving forward

- Working with state and local partners on more enhanced efforts to support long term care
- Ongoing support of state efforts around surge planning solutions
- Continue to refine planning tools and incorporate emerging best practices
- Keep planning for future peaks by incorporating what's working now while we build capabilities

## Thank you

#### Onora Lien, Executive Director Northwest Healthcare Response Network



## Coronavirus Disease 2019 (COVID-19): Surge Planning

Seattle City Council 4/13/2020

Timothy H. Dellit, MD Chief Medical Officer, UW Medicine President, UW Physicians



## UW Medicine COVID-19 Response

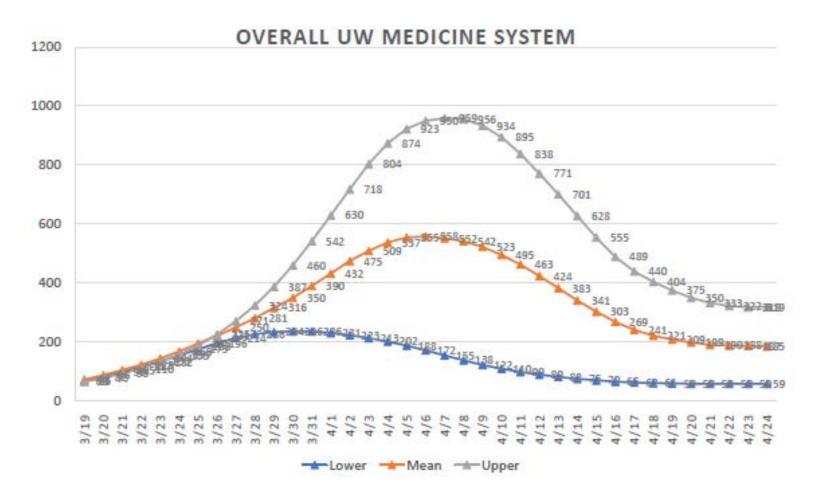
- Partnerships:
  - Local public health jurisdictions
  - Washington State Department of Health
  - Northwest Healthcare Response Network
  - Washington State Hospital Association
- System-wide incident command structure
- Maintain the well-being and health of our workforce
- Personal Protective Equipment (PPE)
- Clinical Virology Laboratory test development
- Testing clinics (drive through for employee and patients)
- Increase telehealth capacity

## Surge Planning

- Modeling with Institute for Health Metrics and Evaluations (IHME)
- Identify surge targets
  - o Bed capacity
  - o ICU beds
  - o Staffing
  - o Equipment (ventilators, PPE)
- Cancel elective and non-urgent surgeries and procedures
- Triage sites (tents outside emergency departments)
- Alternative sites of care
- Vulnerable populations
- Conventional  $\rightarrow$  Contingency  $\rightarrow$  Crisis

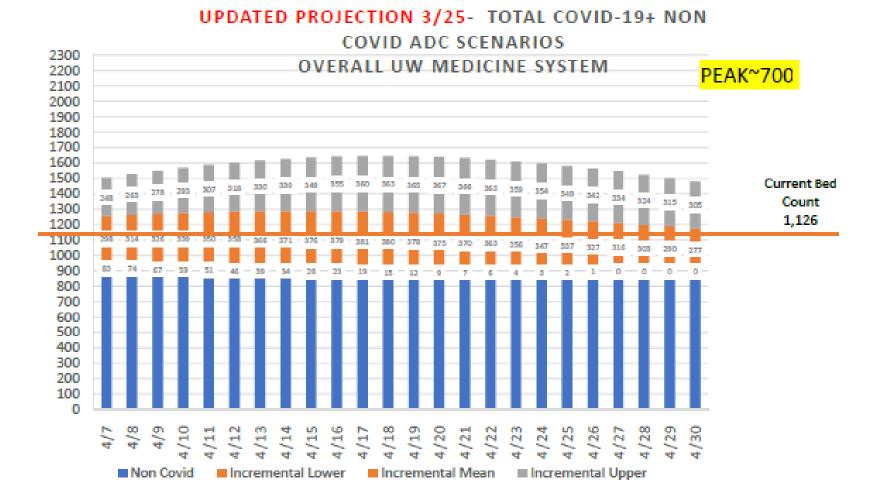
### Projected Need for Surge Bed Capacity

Original IHME modeling for UW Medicine on March 18, 2020 Potential surge of additional 960 patients



### Projected Need for Surge Bed Capacity

A week later...

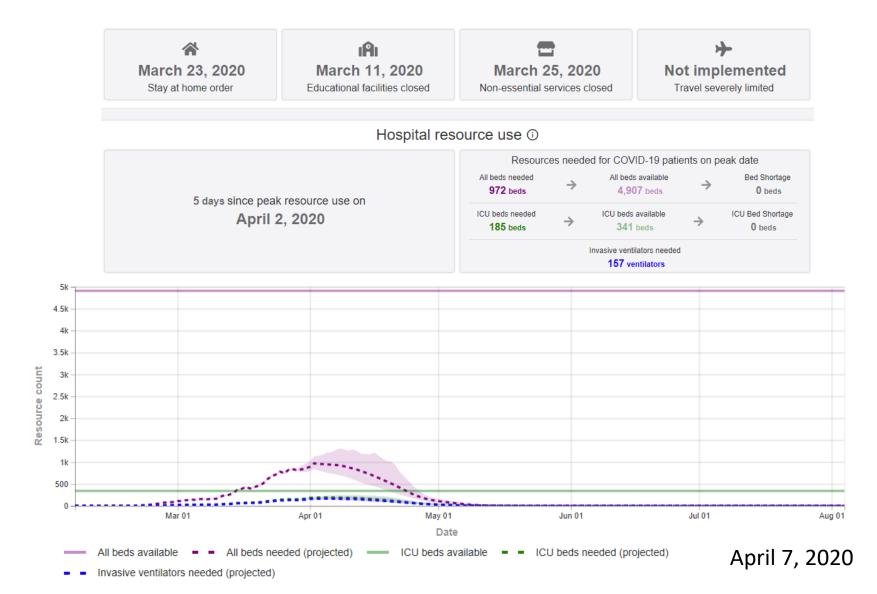


## Institute for Health Metrics and Evaluation (IHME)



April 2, 2020

## Institute for Health Metrics and Evaluation (IHME)



## Surge Planning Tool

Continuum of Care Conventional Capacity - the spaces, staff and supplies used are consistent with daily practices within the institution. These spaces and practices are used during a major mass casualty incident that triggers activation of the facility emergency operations plan.		Contingency Capacity - The spaces, staff and supplies used are not consistent with daily practices, but provide care to a standard that is functionally equivalent to usual patient care practices. These spaces or practices may be used temporarily during a major mass casualty incident or on a more sustained basis during a disaster (when the demands of the incident exceed community resources).				Crisis Capacity - Adaptive spaces, staff, and supplies are not consistent with usual standards of care, but provide sufficiency of care in the setting of a catastrophic disaster (i.e. provide the best possible care to patients given the circumstances and resources available). Crisis capacity activation constitutes a significant and adjustment to standards of care.							
	Phase 0 Phase 1		Phase 2			Phase 3							
Bed type = ICU, Acute Care or ED Clinical Infrastructure = medical gases, emergency power (i.e. PACU, IR, OR)		Normal ADC by bed type (ICU/Acute Care) prior to March 2020	90% full to set up beds by total and/or by type of bed	When Phase 1 is 90% full, surge into a location that has clinical infrastructure, not part of the staffed bed count			When Phase 2 is 90% full, surge into a location with no existing clinical infrastructure (no med gases, emergency power, etc)						
				ICU Beds Acute Care Beds ED		ICU Bed	s	Acute Care B	eds	s ED			
		No additional beds/equipment needed to support this Phase	No additional beds/equipment needed to support this Phase	Number of beds: Department: Department #: Number of beds: Department: Department #: Number of beds:		Number of beds: Department: Department #: Number of beds: Department #: Number of beds:			Number of beds: Department: Department #: Number of beds: Department: Department #: Number of beds:		Number of beds: Department #: Number of beds: Department : Department #: Number of beds:		
				Department:		Department:			Department:		Department:		
				Department #:		Department #:			Department #:		Department #:		
	Incremental staffing in each location by Phase for a 24 hour period of time. CNO agreed upon and approved ratios only.		Total ICU Beds		Total Acute Care Beds			Total ICU Beds		Total Acute Care Beds			
			ICU RN										
1		Acute Care RN											
		PCT/HA Trained Observer/Dofficer											
R		ED RN											
EF		Triage RN											
E F		ED PCT											
N		Respiratory Therapy EVS											
TG		Lab											
A		Pharmacy Food and Nutrition											
1			Radiology										
		Bed											
		Stretcher											
		Transport Vents Invasive Vents											
		Anesthesia machines											
		Вірар											
E		Alaris pumps Cardiac Monitors											
Q		Tele											
U		Oxygen regulator											
P		RA regulator Suction											
M		Isolation carts											
E		Oxygen tanks											
N T		Glidescopes Ultrasounds, Point of Care											
1		Handheld Ultrasounds											
		Portable CT											
			Thermometers Vital Signs Monitors										
			ED Triage Tent										
		Рухі	s/Automated Dispensing Cabinet										
	Glucometers												
	WOWS												

## UW Medicine Surge Bed Capacity Planning

#### **Target Calculation**

		Additional Beds to be Added							
UWM-NW	Starting Bed Count	Phase 1	Phase 2	Phase 3	Total				
ICU	15	0	32	0	47				
All Non-ICU	126	0	55	36	217				
Total	141	0	87	36	264				
UWM-ML		Phase 1	Phase 2	Phase 3					
ICU	79	0	47	20	146				
All Non-ICU	306	0	99	34	439				
Total	385	0	146	54	585				
HMC		Phase 1	Phase 2	Phase 3					
ICU	89	0	41	51	181				
All Non-ICU	253	0	53	90	396				
Total	342	0	94	141	577				
VMC		Phase 1	Phase 2	Phase 3					
ICU	30	0	17	10	57				
All Non-ICU	150	0	50	14	214				
Total	180	0	67	24	271				
	1,048	-	394	255	1,697				

## Questions?