

## Medical Health Operational Area Coordination (MHOAC)

4/7/20

### PUBLIC HEALTH (as of 4/7/20 1100)

- 931 COVID-19 cases in Orange County
- 15 COVID-19 deaths in Orange County
- 818 people tested by HCA Public Health Lab (PHL) and commercial labs since yesterday
- Total number of people tested by PHL and by commercial labs to date is 11,307
- HCA PHL has kits available to test 1,731 specimens
- PHL was notified that they were allocated 66 Cepheid SARS-CoV-2 test kits (660 tests). This is a rapid, 45 minute, sample to answer test that will be used for “STAT” test requests such as patients enrolling into drug trials, high-risk congregate settings, etc. The Purchase Order was submitted yesterday and the ship date is not known at this time.
- CDC updated/new guidance posted in the last 24 hours:
  - [Resources for Hospitals and Healthcare Professionals Preparing for Patients with Suspected or Confirmed COVID-19](#) (April 6)
  - [Training for Healthcare Professionals](#) (April 4)
- CDPH updated/new guidance posted in the last 24 hours:
  - [Alternate Care Site FAQs 4/6/2020](#)
  - [AFL 20-35 Suspension of Professional Certification Requirements for Certified Nurse Assistants \(CNAs\)](#) (April 5)

### OVERVIEW OF CURRENT SITUATION (As of 4/07/20 0630)

Cases / Deaths  
Worldwide: 1,362,936 / 76,373  
Nationwide: 368,449 / 10,993  
California: 16,349 / 388

Source: Johns Hopkins University & Medicine (<https://coronavirus.jhu.edu/map.html>)

### EMERGENCY MEDICAL SERVICES STATUS/MEDICAL DIRECTOR

- 9-1-1 & non-9-1-1 transports continue to be below normal
- Statewide industry suffering major financial impacts w/ 25% reduction in transports. Companies laying off employees to cut cost commensurate with lost revenue. Concerns that ambulance services may not be prepared when patient surge occurs.
- 4/6/20 California Ambulance Association (CAA) requested EMSA to utilize FEMA Public Assistance Grant to fund deployment of regional ambulance teams to assure ambulance surge capacity.

### HOSPITAL STATUS

#### CURRENT HOSPITAL CAPACITY

Licensed Beds	
Total # of Hospital Beds	5,903
Total # of ICU Beds	673
Total # of Med/Surgical Beds	3,430
Total SURGE Beds	1,024
Total # of all other Beds	776
Total Ventilators	809

- California Hospital Association gathering individual hospital data to determine maximum capability of surge capacity to assist Governor w/ establishing where 50,000 bed needs in California will be derived from.

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<b>Hospital Bed Availability – Bed Capacity: 4,879</b>					
Date	Occupancy %	COVID+ Hospitalized	COVID+ in ICU <small>(subset of hospitalized)</small>	Staffed/Available Medical/Surgical Beds	Staffed/Available ICU Beds
3/26	67%				
3/27	67%	50	31	335	107
3/28	57%	63	33	305	100
3/29	60%	87	44	549	117
3/30	63%	94	46	480	130
<b>All Hospital Surge Plans Activated – Increased bed capacity 21% (+1,024 beds) Total Capacity: 5,903</b>					
3/31	53%	67	31	356	90
4/1	54%	115	47	345	79
4/2	52%	103	44	333	83
4/3	51%	144	71	269	86
4/4	41%	140	63	453	88
4/5	47%	130	72	267	54
4/6	51%	129	75	423	78
4/7	52%	99	59	211	64
4/8					
4/9					

These numbers fluctuate hourly due to changes in patient conditions. Data is gathered daily at one point in time

### SURGE MODELING

COVID-19 Scenario Forecasts, Orange County utilizing the Cornell Model from Kaiser

### Orange Forecasts, based on Cornell model

3 scenarios, varying by intensity and mitigation

	% of Population Infected		
	10%	20%	40%
<b>Model Inputs</b>			
Total Population	3,252,459	3,252,459	3,252,459
Infection Rate	10%	20%	40%
% Symptomatic	50%	50%	50%
Day of Maximum Cases	90	90	60
Peak	Flat	Flat	A bit peaked
<b>Total Infected (over course of epidemic)</b>	325,246	650,492	1,300,984
<b>Symptomatic (over course of epidemic)</b>	162,623	325,246	650,492
<b>Cumulative Hospitalizations 90 days out from today</b>	<b>9,979</b>	<b>19,958</b>	<b>48,405</b>
General Hospitalizations	6,865	13,730	33,299
ICU	3,114	6,228	15,106
Estimated Ventilator Patients	1,557	3,114	7,553
<b>Cumulative Deaths 90 days out</b>	<b>1,483</b>	<b>3,174</b>	<b>7,744</b>
<b>Hospital Occupancy at Peak</b>	<b>1,108</b>	<b>2,288</b>	<b>12,163</b>
General Hospitalizations	662	1,359	7,426
ICU	445	929	4,736
Estimated Ventilator Patients	223	465	2,368

1. All COVID-19 forecasts, including these, entail large uncertainty related to COVID-19 biology, the effectiveness (or not) of mitigation/suppression efforts, and clinical management decisions.

2. The time to peak (60 or 90 days) is from day 0 of epidemic.

Source: Cornell COVID Case Calculator, v3.5, Nathaniel Hupert MD.

**Medical Health Operational Area Coordination (MHOAC)  
4/7/20**

**BED AVAILABILITY ↑ 26%**

**CURRENT OC**  
1,024 + 50 + 200 + = 1,274  
1,274/4,879

SURGE BEDS OVER LICENSED		
Total # of Hospital Beds (pre-COVID-19)		4,879
Ventilators		809
Expanded Bed Capacity (21%)	+1,024	5,903
Existing Surge Tents	+50	5,953
Ordered Surge Tents	To arrive - 4/15 & 4/29	
Region I - USNS MERCY	+200	6,153
FAIRVIEW	Planning	
FAIRGROUNDS		
<b>TOTAL BED CAPACITY</b>		<b>6,153</b>

**BED AVAILABILITY ↑ 41%**

**EARLY MAY**

**Region I - OC**  
1024 + 50 + 200 + 200 + 150 = 1,994  
1,994/4,879

SURGE BEDS OVER LICENSED		
Total # of Hospital Beds:		4,879
Expanded Bed Capacity (21%)	+1,024	5,903
Existing Surge Tents	+50	5,953
Ordered Surge Tents	+200	6,153
REGION I - USNS MERCY	+200	6,353
REGION I - FAIRVIEW	+520	6,873
REGION I - FAIRGROUNDS	Planning	
<b>TOTAL BED CAPACITY</b>		<b>6,873</b>

**BED AVAILABILITY ↑ 48%**

**LATE MAY**

**Region I - OC**  
1024 + 50 + 200 + 200 + 900 + 350 = 2,344  
2,344/4,879

SURGE BEDS OVER LICENSED		
Total # of Hospital Beds:		4,879
Expanded Bed Capacity	+1,024	5,903
Existing Surge Tents	+50	5,953
Ordered Surge Tents	+200	6,153
REGION I - USNS MERCY	+200	6,353
REGION I - FAIRVIEW	+520	6,873
REGION I - FAIRGROUNDS	+350	7,703
<b>TOTAL BED CAPACITY</b>		<b>7,223</b>

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**4/7/20**

**AGENCY OPERATIONS CENTER (AOC)**

- Activated at HIGH Level I and is sufficiently staffed; Hours of operation are M-F 8:30 – 5:00.
- LOGISTICS SECTION Activity for 4/6/20
  - Total Units Out: 40,074
    - Eye Protection 360
    - Gloves 4,700
    - Gowns 6,560
    - N-95 Masks 19,62
    - Surgical Mask 8,000

INQUIRIES	RR RECEIVED	RR FILLED
4,325	2,433	1,638

**ALTERNATE CARE SITE – FAIRVIEW / FAIRGROUNDS**

- Conference call scheduled with the State re: Fairview site planning for 3 distinct purposes:
  - Surge capacity for persons with developmental disabilities (~200 beds)
  - Orange county – alternative care site (~100-200 beds)
  - Expanded SNF capacity (remaining bed count)
- Fairgrounds remains an option should we require additional space