

Medical Health Operational Area Coordination (MHOAC)

4/3/20

PUBLIC HEALTH (as of 4/3/20 1200)

- 711 COVID-19 cases in Orange County
- 13 COVID-19 deaths in Orange County
- 936 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 8,727
- HCA PHL has kits available to test 1,072 specimens
- PHL staff trained two members of the California National Guard's 9th Civil Support Team to perform the COVID-19 RT-PCR assay. They will be a part of the PHLs surge staffing plan and will either perform testing at the PHL or at their laboratory in Los Alamitos.
- Updated website: <https://occcovid19.ocaliforniahealthinfo.com/>
 - FAQs updated
 - Graph depicting cases currently hospitalized and cases currently in ICU will be posted today
- CDC updated/new guidance posted in the last 24 hours:
 - [Personal Protective Equipment When Caring for COVID-19 Patients](#) (April 3)
- CDPH updated/new guidance posted in the last 24 hours:
 - [AFL 20-33 Interim Guidance for Transfer of Residents with Suspected or Confirmed Coronavirus Disease \(COVID-19\)](#) (April 1)

OVERVIEW OF CURRENT SITUATION (As of 4/02/20 0700)

	Cases	/ Deaths
Worldwide:	1,033,478	/ 54,369
Nationwide:	245,646	/ 6,068
California:	11,126	/ 246

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

EMERGENCY MEDICAL SERVICES STATUS

- 9-1-1 & non-9-1-1 transports continue to be below normal

HOSPITAL STATUS

All hospitals have activated their Surge Plans to support COVID-19 prep & response. This includes but is not limited to screening all visitors & staff, cancelling elective procedures, utilizing OR/Pre-op areas for surge, expanding critical care and medical surgical beds, implantation of surge tents to screening & overflow. Just these efforts have increased the available bed capacity in OC to 21% or 1,024 beds bringing the available bed capacity to 5,903.

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

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Hospital Bed Availability – Bed Capacity: 4,879					
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%				
3/29	60%				
3/30	63%	94	46	480	130
All Hospital Surge Plans Activated – Increased bed capacity 21% (+1,024 beds) Total Capacity: 5,903					
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
4/6					
4/7					
4/8					
4/9					

These numbers fluctuate hourly due to changes in patient conditions. Data is gathered daily at one point in time. It's too early to gauge this information for worthiness – it will be more helpful in trending when we actually hit surge, peak & decrease surge.

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%
Model Inputs			
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
Total Infected (over course of epidemic)	325,246	650,492	1,300,984
Symptomatic (over course of epidemic)	162,623	325,246	650,492
Cumulative Hospitalizations 90 days out from today	9,979	19,958	48,405
General Hospitalizations	6,865	13,730	33,299
ICU	3,114	6,228	15,106
Estimated Ventilator Patients	1,557	3,114	7,553
Cumulative Deaths 90 days out	1,483	3,174	7,744
Hospital Occupancy at Peak	1,108	2,288	12,163
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.

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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	+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		
TOTAL BED CAPACITY		6,153

BED AVAILABILITY ↑ 33%

EARLY MAY

Region I - OC
1024 + 50 + 200 + 200 + 150 = 1,674
1,624/4,879

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	+150	6,503
REGION I - FAIRGROUNDS	Planning	
TOTAL BED CAPACITY		6,503

BED AVAILABILITY ↑ 56%

LATE MAY

Region I - OC
1024 + 50 + 200 + 200 + 900 + 350 = 2,724
2,724/4,879

SURGE BEDS OVER LICENSED		
Total # of Hospital Beds:		5,903
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	+900	7,253
REGION I - FAIRGROUNDS	+350	7,703
TOTAL BED CAPACITY		7,603

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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 (As of 4/3/20 0700)

INQUIRIES	RR RECEIVED	RR FILLED
3,715	2,056	1,384

- Recent shipment 4/2/20 from State included PPE – all items allocated for distribution

ALTERNATE CARE SITE – FAIRVIEW / FAIRGROUNDS

- Contacted by Surge Task Force re: Region I ACS options in Orange County; Task force will be conducting planning meetings w/ OC next week. State Department of General Services (DGS) will be on site this weekend and is authorized to start work next week. OC HCA subject matter experts in acute care operations will accompany the State Project Lead.
- Fairgrounds remains an option should we require additional space