

Medical Health Operational Area Coordination (MHOAC)
4/6/20

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

- 882 COVID-19 cases in Orange County
- 14 COVID-19 deaths in Orange County
- 556 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 10,489
- HCA PHL has kits available to test 950 specimens
- FDA Pacific Southwest Food and Feed Laboratory (Irvine) donated 250 extraction reagents to PHL on Friday.
- PHL is working with the AOC to add extraction kits to the list of requested donations to see if local universities may have supplies to donate.
- Website (<https://occovid19.ochealthinfo.com/>) updated at noon daily.
- CDC updated/new guidance posted in the last 24 hours:
 - [Discontinuation of Home Isolation for Persons with COVID-19 \(Interim Guidance\)](#) (April 4)
 - [Use of Cloth Face Coverings to Help Slow the Spread of COVID-19](#) (April 4)
 - [Cloth Face Coverings: Questions and Answers](#) (April 4)
 - [Recommendation Regarding the Use of Cloth Face Coverings, Especially in Areas of Significant Community-Based Transmission](#) (April 3)
 - [Strategies for Optimizing the Supply of N95 Respirators](#) (April 3)
 - [Stop the Spread of Rumors](#) (April 3)
 - [Water Transmission and COVID-19](#) (April 3)
 - [COVID-19-Related Phone Scams and Phishing Attacks](#) (April 3)
 - [CDC Launches New Weekly COVID-19 Surveillance Report](#) (April 3)
- CDPH updated/new guidance posted in the last 24 hours:
 - [Veterinary Professionals and Premises](#) (April 1)

OVERVIEW OF CURRENT SITUATION (As of 4/06/20 0630)

Cases / Deaths
Worldwide: 1,289,380 / 70,590
Nationwide: 337,971 / 9,654
California: 15,158 / 350

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

EMERGENCY MEDICAL SERVICES STATUS/MEDICAL DIRECTOR

- OCEMS#3724 COVID-19 Testing for First Responders – Sponsored by UCI
- 9-1-1 & non-9-1-1 transports continue to be below normal

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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Hospital Bed Availability – Bed Capacity: 4,879					
Date	Occupancy %	COVID+ Hospitalized	COVID+ in ICU (subset of hospitalized)	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
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
4/4	41%	140	63	453	88
4/5	47%	130	72	267	54
4/6	51%	129	75	423	78
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

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 (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		
TOTAL BED CAPACITY		6,153

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	
TOTAL BED CAPACITY		6,873

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
TOTAL BED CAPACITY		7,223

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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 1900)
 - Section Activity 4/3/20: Total Units Out 65,809
 - Eye Protection 10,084
 - Gloves 1,800
 - Gowns 20,710
 - N-95 Masks 17,640
 - Surgical Mask 12,300

INQUIRIES	RR RECEIVED	RR FILLED
4,040	2,258	1,522

Inventory Report February 18 to April 5, 2020	
Medical Supply/Equipment	Total Units Distributed
N-95 Masks	1,169,975
Surgical Masks	73,320
Gowns	159,865
PPE- Suit	6053
Gloves	139,100
Eye Protection	25,049
Hand Sanitizer	76,333
Other Items	5,359
Total Units	1,655,054

ALTERNATE CARE SITE – FAIRVIEW / FAIRGROUNDS

- OC HCA subject matter experts in acute care operations on site w/ State Project Lead for Fairview. Below is summary of 2-day visit:
 - The Fairview site planning is turning more into a low level federal medical station (Shelter) which is way less than an alternate care site. They told our team that it's an ACS but consider it to function as a shelter. Initial for 520 beds, 6 buildings in 20 calendar days (4/23 up & running)
 - FMS – low level care, CDC tier 1-2, cots-no beds, no privacy, all ambulatory, no ADA, no O2, no monitoring, one nurse to 31 patient, no lab, no X-ray, no special diets
- Fairgrounds remains an option should we require additional space