

**Orange County Emergency Medical Services
Medical Health Operational Area Coordination (MHOAC)**

Online at: <http://www.healthdisasteroc.org/ems/archive>

07/09/20

OVERVIEW OF CURRENT SITUATION (07/09/20 0630) Source: Johns Hopkins University & Medicine <https://coronavirus.jhu.edu/map.html>

Cases / Deaths
 Worldwide: 12,077,210 / 550,327
 Nationwide: 3,055,491 / 132,310
 California: 292,773 / 6,724
 Orange County: 20,225 / 376 Source: [Orange County COVID-19 Case Counts & Testing Figures](#)

ORANGE COUNTY PUBLIC HEALTH (as of 7/9/20 1000)

Orange County COVID-19 Summary* <i>click for full details</i>	Sat 7/4/20	Sun 7/5/20	Mon 7/6/20	Tue 7/7/20	Wed 7/8/20	Thu 7/9/20	Fri 7/10/20
Cases Reported to Date	16,191	16,854	17,882	18,892	20,225	21,517	
Deaths Reported to Date	363	366	366	369	376	402	
Tests Reported Today	6,862	5,649	4,157	8,037	6,786	3,514	
Cumulative Tests to Date	260,853	266,502	270,659	278,696	285,482	288,996	
*Data posted is always preliminary & subject to change. More information may become available as individual case investigations are completed. LOCAL DATA MAY BE DIFFERENT FROM THE STATE WEBSITE DATA							

PUBLIC HEALTH REPORT (7/8/20)

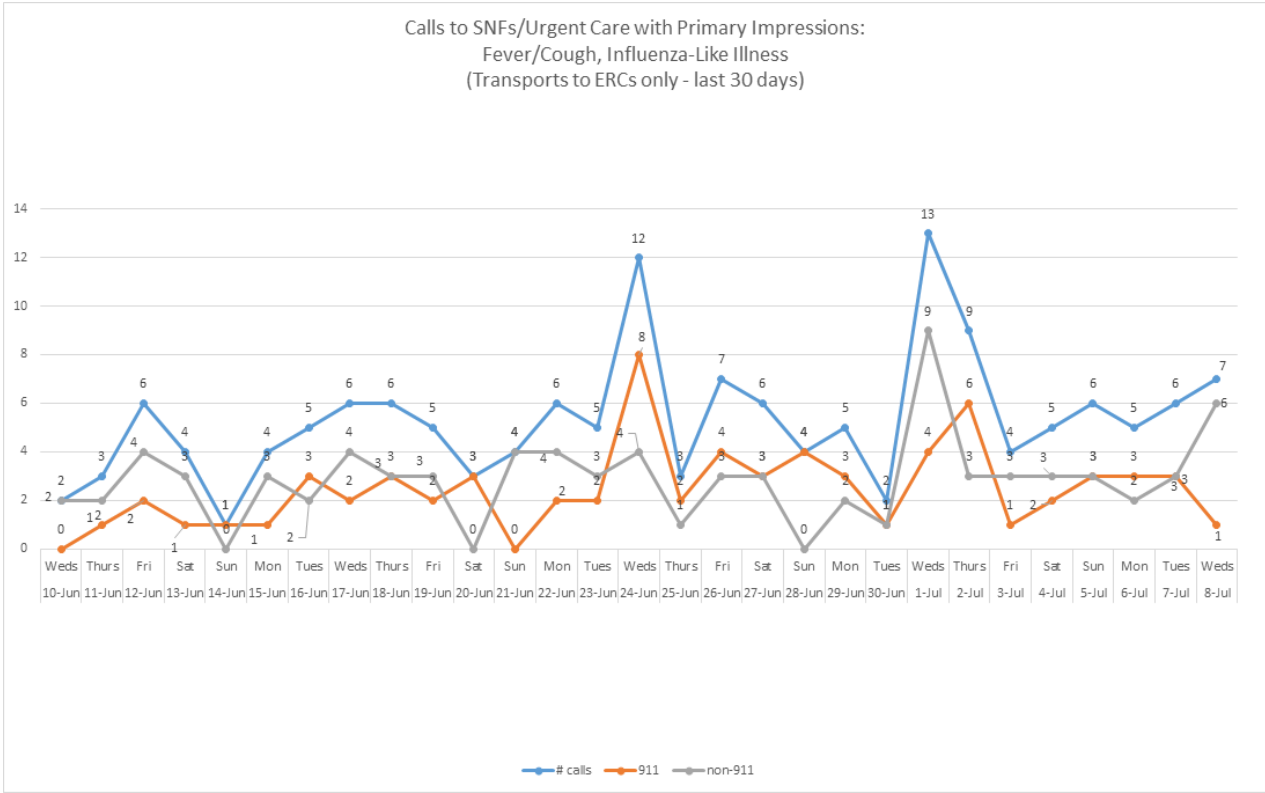
- Orange County is seeing a substantial increase in disease transmission. OC identified our first case on 1/25 so we have been identifying cases for 166 days, and in the past 3 days have reported 16.6% of total cases (3,371 of 20,225).
- Over the past three weeks;
 - Testing Rate: increased 69% from 110 to 186 average tests per day per 100,000 population
 - Positivity Rate increased from 6.6% to 14.9%
 - Case rate average increased 328% from 55.6 to 237.9 per 100,000
- Elevated disease transmission is impacting hospital capacity
 - Percent change in 3 day average COVID patients hospitalized has been an increasing trend for 17 consecutive days
 - Percent of ICU beds available has remained stable so far, however the impact on the ICU is delayed as illness associated with increasing disease transmission continues to worsen over time.
- The trends are very concerning and we can continue to expect the impact on the healthcare system to get worse in the coming days and weeks.
 - Increased disease transmission always comes first;
 - Increased hospitalizations comes later as illness develops and worsens;
 - Increased ICU need comes even later as illness continues to worsen over time.
- The current metrics show a clear reflection of the disease progression and we need a reduction in disease transmission to protect the hospitals
- Everyone in Orange County needs to adhere to the mitigation strategies to slow spread;
 - High risk persons (65 or older, or underlying health conditions) should stay home as much as possible
 - Stay home when sick
 - Isolation of cases and quarantine of all contacts (within 6 feet for 15 minutes or more)
 - Practice social distancing at all times; 6 feet or more
 - Wear face coverings when unable to maintain social distancing; high compliance is critical given asymptomatic transmission
 - Wash hands frequently
 - Avoid touching face
 - Disinfect frequently touched surfaces often

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SKILLED NURSING/ASSISTED LIVING/RESIDENTIAL CARE FACILITY – TRENDS

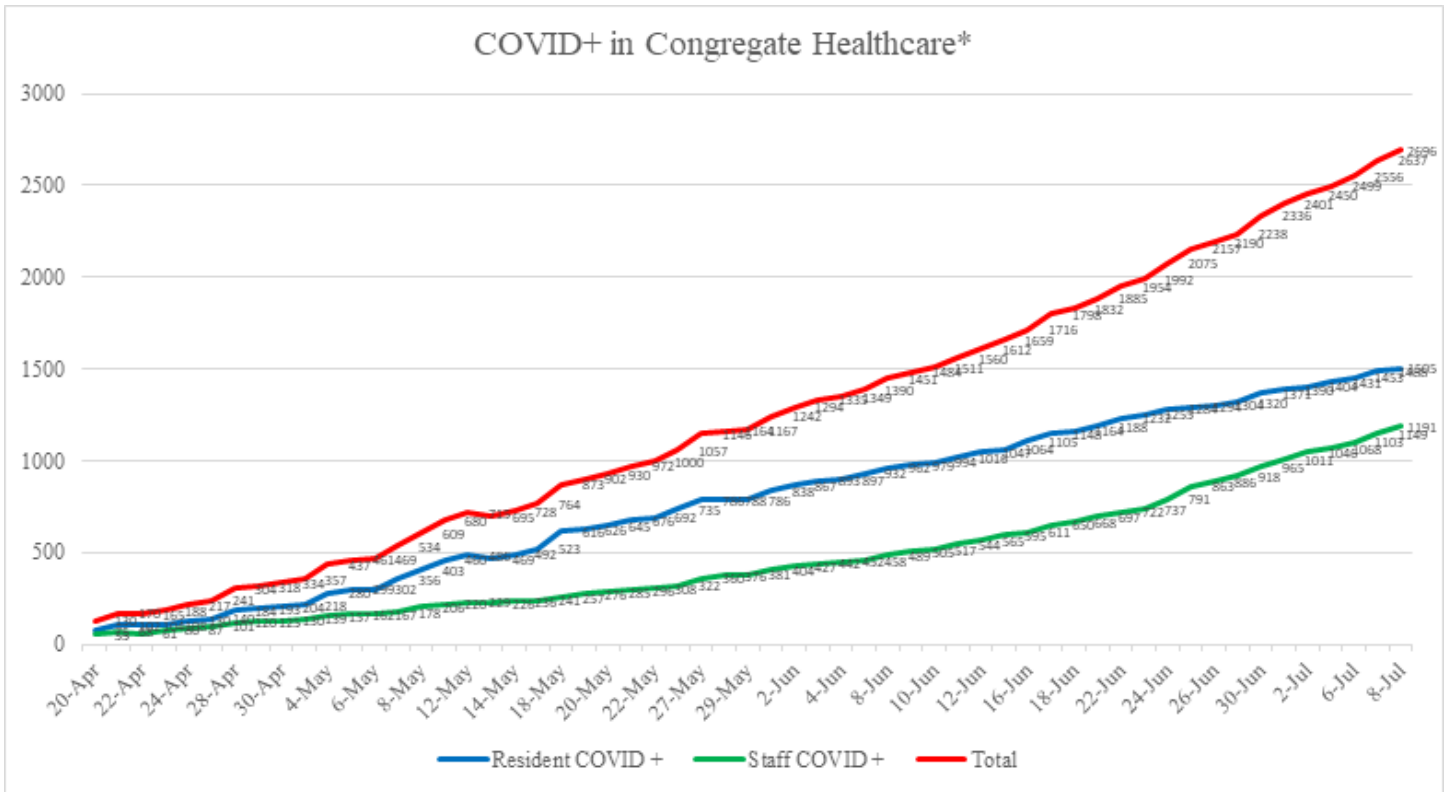


Reporting Date: 7/09/20 (73 SNFs reported)	Skilled Nursing Facility PPE – DAYS ON HAND*			
	0 - 3 days	4 - 7 days	8-14 days	15+ days
N95 Masks	1	3	28	41
Surgical Masks	1	3	23	46
Eye Protection	0	3	22	48
Gowns	1	3	24	45
Gloves	0	6	22	45
Alcohol-Based Hand Sanitizer	0	6	20	47

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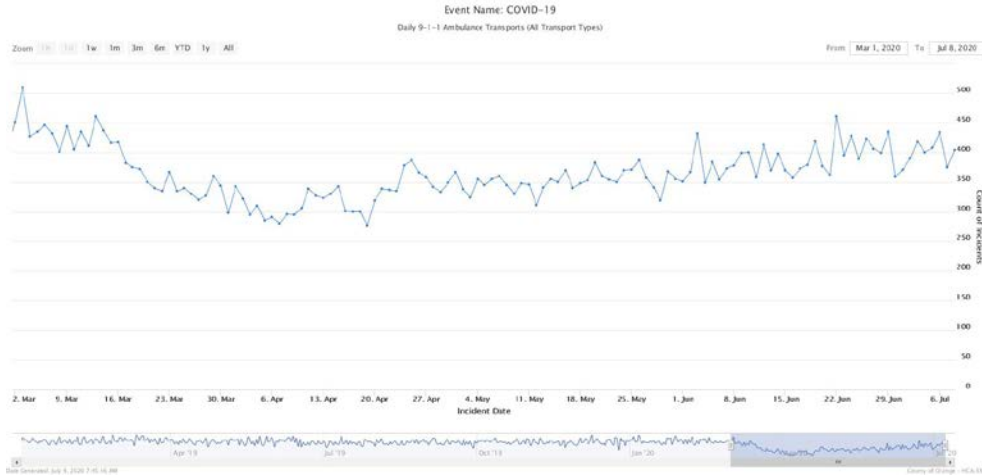
Facility Outbreaks (as of 7/8/20 1700)

Facility Type by Licensing Category	#	An "Outbreak" is two (2) or more confirmed cases of COVID-19 in facility residents occurring within 14 days.
Skilled Nursing Facility	36	Advanced Rehab Center of Tustin, Alamitos West Health & Rehab, Anaheim Crest, Anaheim Healthcare Center, Buena Vista Care Center, Chapman Care Center, Country Villa Plaza, Coventry Court, Crystal Cove Care Center, French Park Care Center, Garden Grove Convalescent Hospital, Garden Park Care Center, Gordon Lane Care Center, Harbor Villa Care Center, Healthcare Center of Orange County, Huntington Valley Healthcare Center, Kindred Brea SAU, Laguna Hills Health & Rehab, Leisure Court Nursing Center, MainPlace Post Acute, Manor Care FV, New Orange Hills, Orange Healthcare & Wellness, Orangegrove Rehab Hospital, Pacific Haven Healthcare Center, Palm Terrace, Park Anaheim Healthcare Center, Rowntree Gardens, Sea Cliff Healthcare Center, Seal Beach Health & Rehab, South Coast Post Acute, St. Edna Subacute & Rehab, Terrace View Care Center, The Hills Post Acute, The Pavilion at Sunny Hills, West Anaheim Extended Care, Windsor Gardens Center of Anaheim
Elderly Assisted Living	26	Acacia Villa, ActivCare Yorba Linda, Anaheim Crown Plaza, Ardent Care Assisted Living, Brookdale Anaheim, Brookdale Nohl Ranch, Brookdale San Juan Capistrano, Cambridge House, Carmel Village, Golden Leisure Home, Heathers McKinley, Heathers Wintergreen, Heritage Point, Kamstra Care Home, Karlton Residential, Oakmont-Capriana, Seacliff Assisted Living, Silverado Newport Mesa, Silverado Tustin Hacienda, St Francis Home, Sunflower Garden, Sunrise Villa Bradford, Sunrise Yorba Linda, The Groves of Tustin, The Regency, Whitten Heights

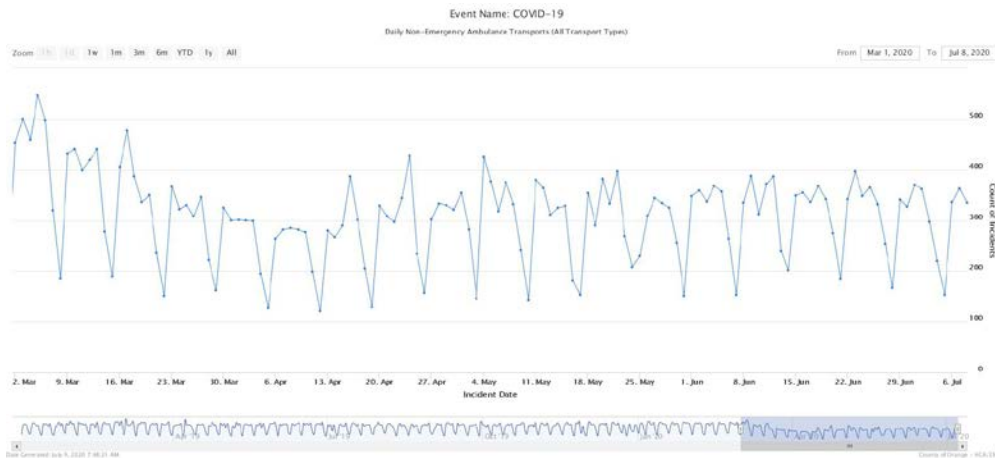
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EMERGENCY MEDICAL SERVICES STATUS

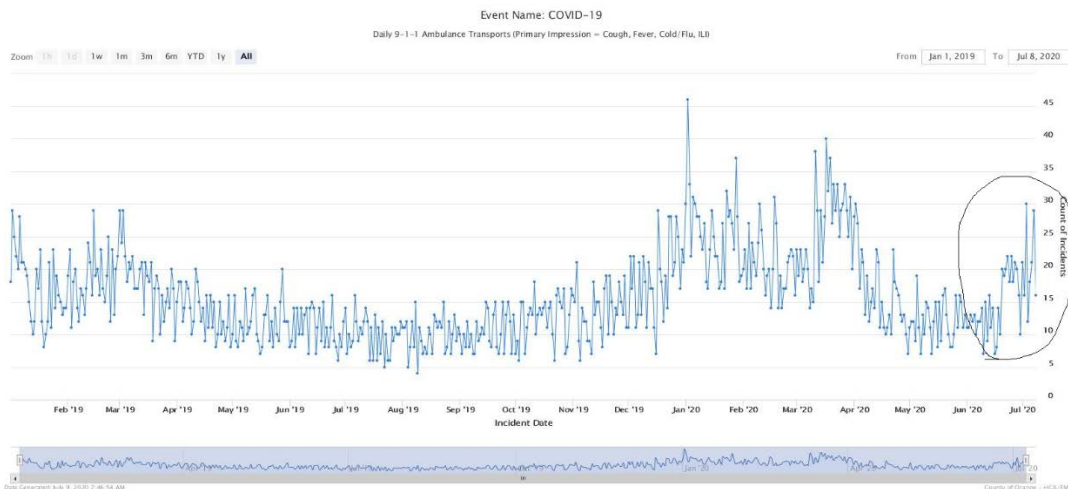
- 9-1-1 ambulance transport volume remains about 5-10% below normal average, but has been increasing steadily over the last few weeks.



- Non-emergency ambulance transports have remained steady the last few days and are averaging about 30-35% below normal.



- Primary Impressions of Cold/Flu/ILI by 9-1-1 EMS providers continue to trend higher over the last several days.

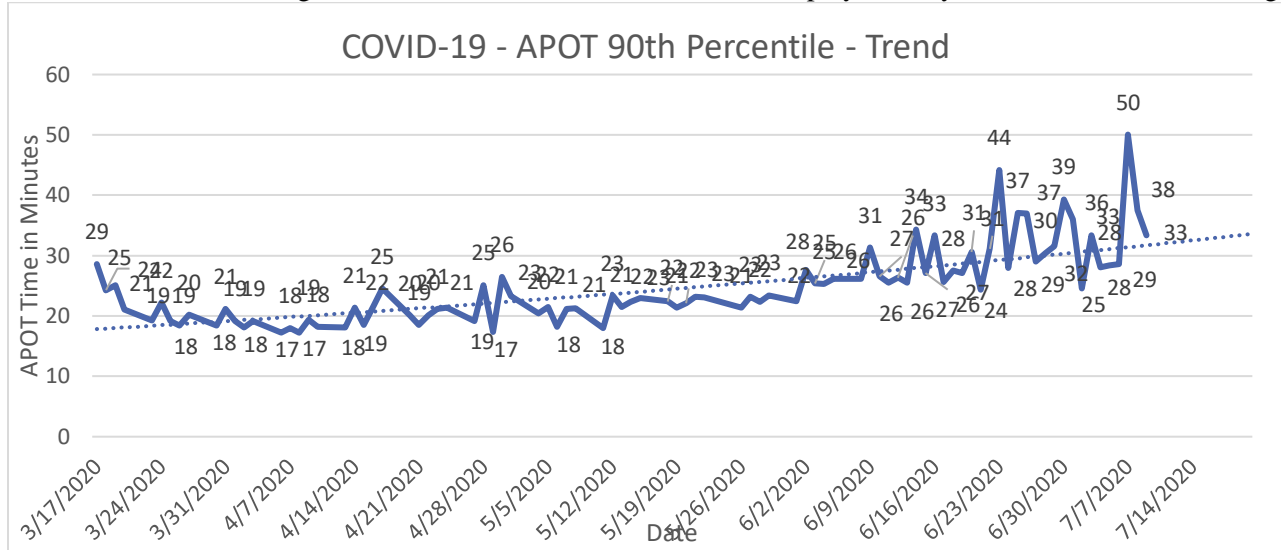


Orange County Emergency Medical Services Medical Health Operational Area Coordination (MHOAC)

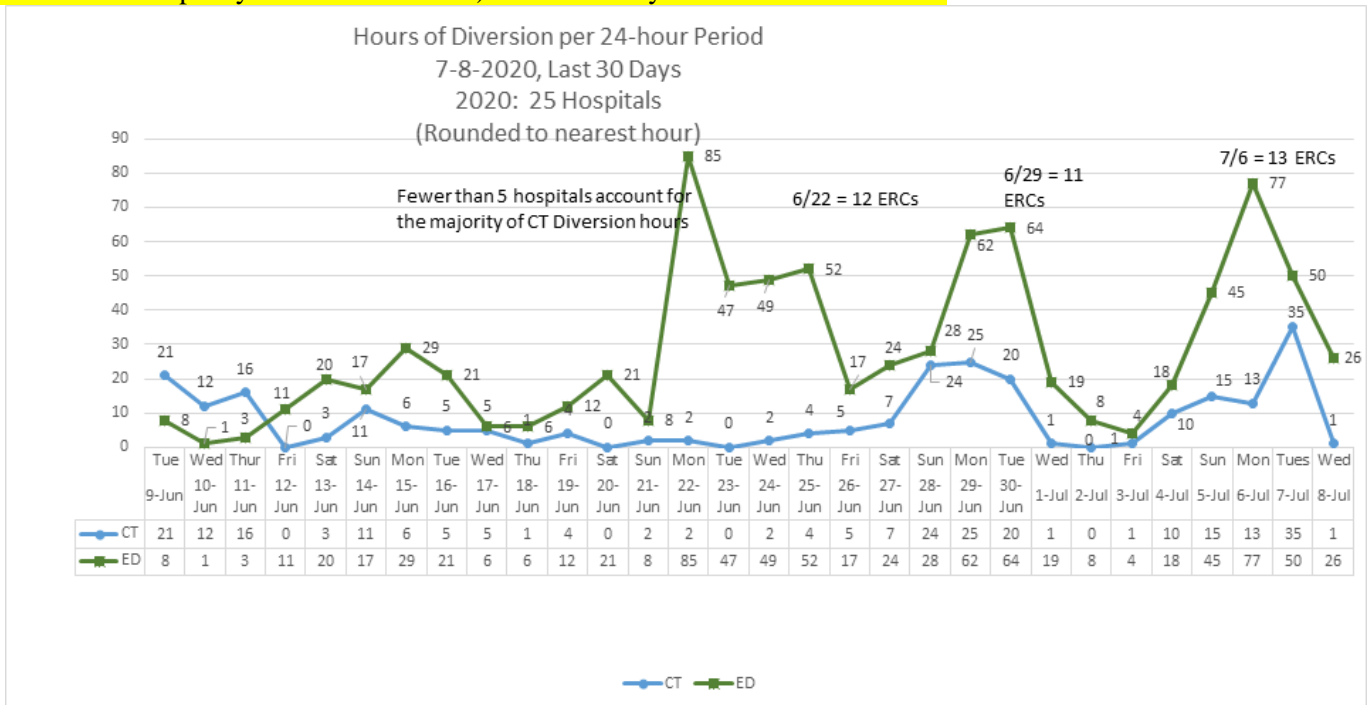
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- Ambulance Patient Offload Time (APOT) is defined as the time the ambulance arrives at the receiving destination (wheels stop) to the time that the ambulance crew physically transfers the patient to the ED gurney. Last 24 hours: **Current Average APOT is 17m02s / Current 90th Percentile APOT is 33m32s.**
- APOT continues to trend higher over the last two weeks. This chart displays a daily trend since COVID-19 began.



- **Emergency Department (ED) Diversion & Computerized Tomography (CT) (ED closed to all ambulance transport due to no ED capacity or no CT available) for last 30 days 6/9/20 – 7/8/20 below.**



HOSPITAL STATUS (Emergency Receiving Centers plus one)

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(26): Anaheim Regional, Anaheim Global, Chapman Global, CHOC, CHOC at Mission, Foothill, Fountain Valley, Garden Grove, Hoag-Irvine, Hoag-Newport Beach, Huntington Beach, Kaiser-Anaheim, Kaiser-Irvine, La Palma, Los Alamitos, Mission –Laguna Beach, Mission-Mission Viejo, Orange Coast Memorial, Orange County Global, Placentia Linda, Saddleback Memorial, Saint Jude, South Coast Global, St. Josephs, UCI, West Anaheim

- Since 4/1/20 – 6/24/20, OC Hospitals have accepted 31 COVID+ interfacility transfers from Imperial County
- As of 7/9/20, hospitals reported there were 30 out-of-county patients, including 15 patients from Imperial County currently hospitalized.

DATE	ALL HOSPITALS (33)						EMERGENCY RECEIVING CENTERS					
	Census ALL	Occupancy %	COVID+ Hospitalized	COVID+ ICU	% ICU Beds Available	% ICU Ventilators Available	Census ALL	Occupancy %	COVID+ Hospitalized	COVID+ ICU	% ICU Beds Available	% ICU Ventilators Available
6/23	3703	63%	406	154	39%	65%	3361	62%	394	147	39%	68%
6/24	3817	65%	437	161	38%	65%	3474	64%	426	154	39%	68%
6/25	3941	65%	451	166	40%	67%	3592	64%	440	159	41%	70%
6/26	3939	67%	467	179	38%	67%	3513	65%	456	172	39%	70%
6/27	3857	68%	492	170	39%	67%	3534	67%	481	163	40%	70%
6/28	3697	66%	485	175	41%	68%	3375	64%	474	168	41%	71%
6/29	3701	65%	510	176	41%	67%	3357	63%	498	169	41%	70%
6/30	3888	68%	542	192	38%	65%	3537	67%	528	184	39%	68%
7/1	3869	68%	556	193	36%	64%	3503	68%	542	185	37%	67%
7/2	3884	71%	584	187	34%	65%	3523	70%	567	179	35%	68%
7/3	3814	61%	594	193	34%	64%	3485	60%	577	185	35%	68%
7/4	3622	60%	624	197	40%	67%	3332	59%	607	189	41%	70%
7/5	3551	59%	634	203	42%	67%	3267	58%	617	195	43%	70%
7/6	3635	59%	659	224	40%	67%	3283	58%	644	216	41%	71%
7/7	3801	62%	679	234	40%	66%	3448	61%	666	226	40%	69%
7/8	3970	65%	691	236	37%	64%	3606	64%	674	229	37%	68%
7/9												
7/10												
7/11												
7/12												
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7/17												
7/18												
7/19												

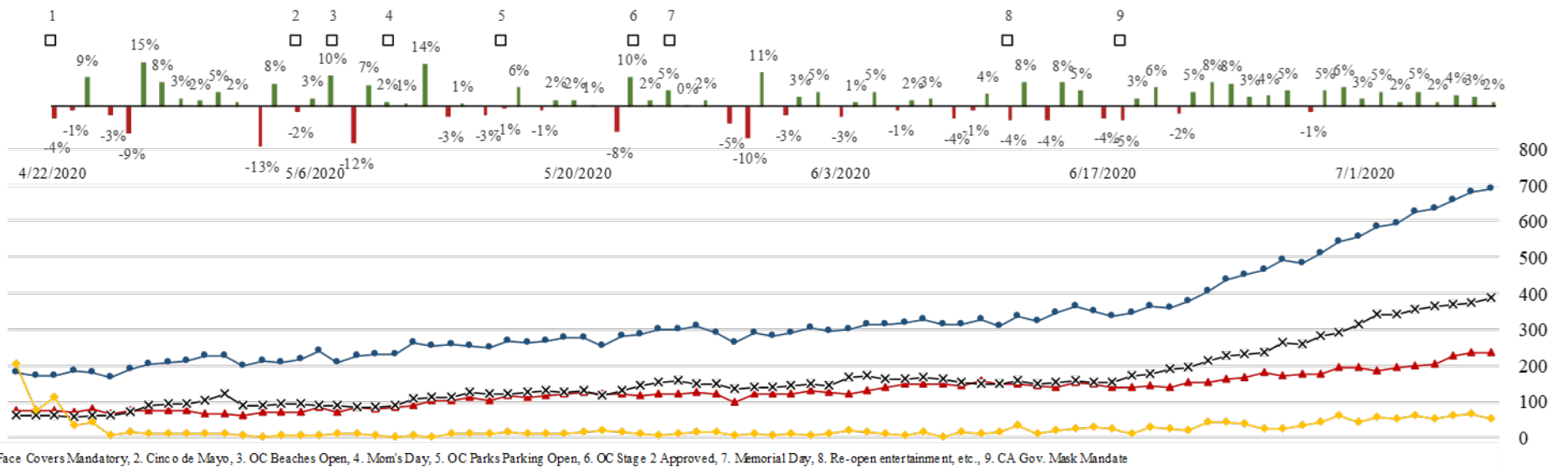
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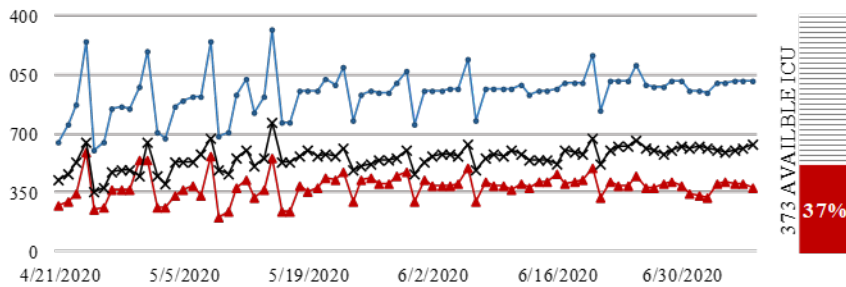
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COVID 19 ORANGE COUNTY HOSPITAL SYSTEM DATA (CA SNOWFLAKE SERVER)(04/21/20 - 07/08/20) | 33 ACUTE CARE FACILITIES REPORTING

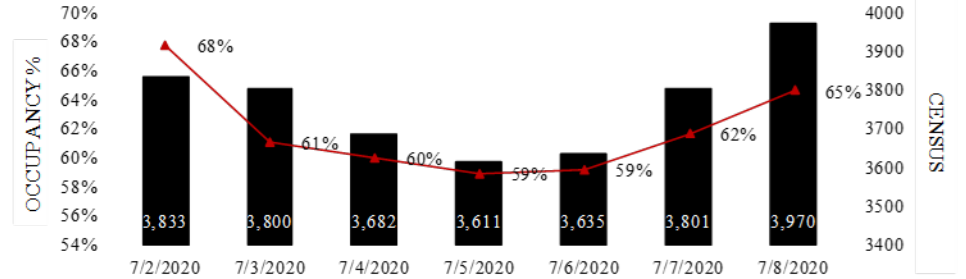
MEDSURG - 07/08/20 X			ICU - 07/08/20 ▲			ED OVERFLOW - 07/08/20 ◆			SYSTEM - 07/08/20 ●			1 DAY +/- (07/07/20)			3 DAY +/- (07/05/20)			7 DAY +/- (07/01/20)		
389	18	4.9%	236	2	0.9%	54	-13	-19.4%	691	12	1.8%	691	12	1.8%	634	57	9.0%	556	135	24.3%
	▲			▲			▼			▲			▲			▲			▲	



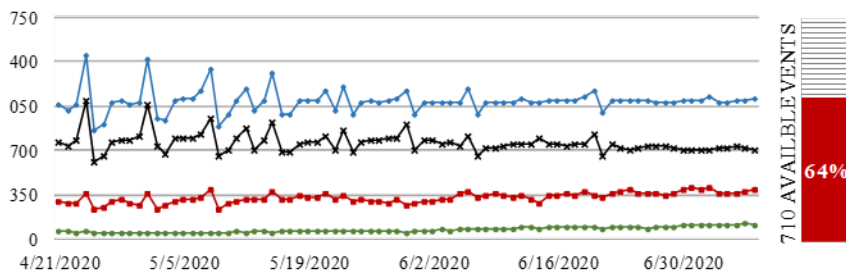
ICU CENSUS - (07/08/20) | ● SYSTEM-1012 | ▲ AVAILABLE-373 (37%) | X OCCUPIED-639



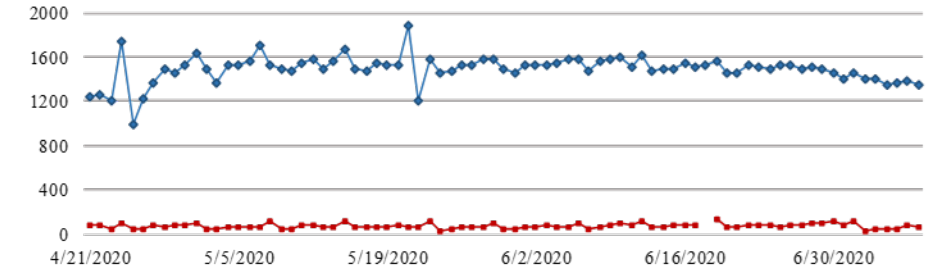
7-DAY HISTORY BED OCCUPANCY - (07/08/20) | IN-PATIENT BEDS-3970 (65%)



VENTILATORS - (07/08/20) | ● SYSTEM-1101 | ▲ AVAILABLE-710 (64%) | X OCCUPIED-391 ◆



SURGE CENSUS - (07/08/20) | ● SYSTEM-1355 | ▲ OCCUPIED-57

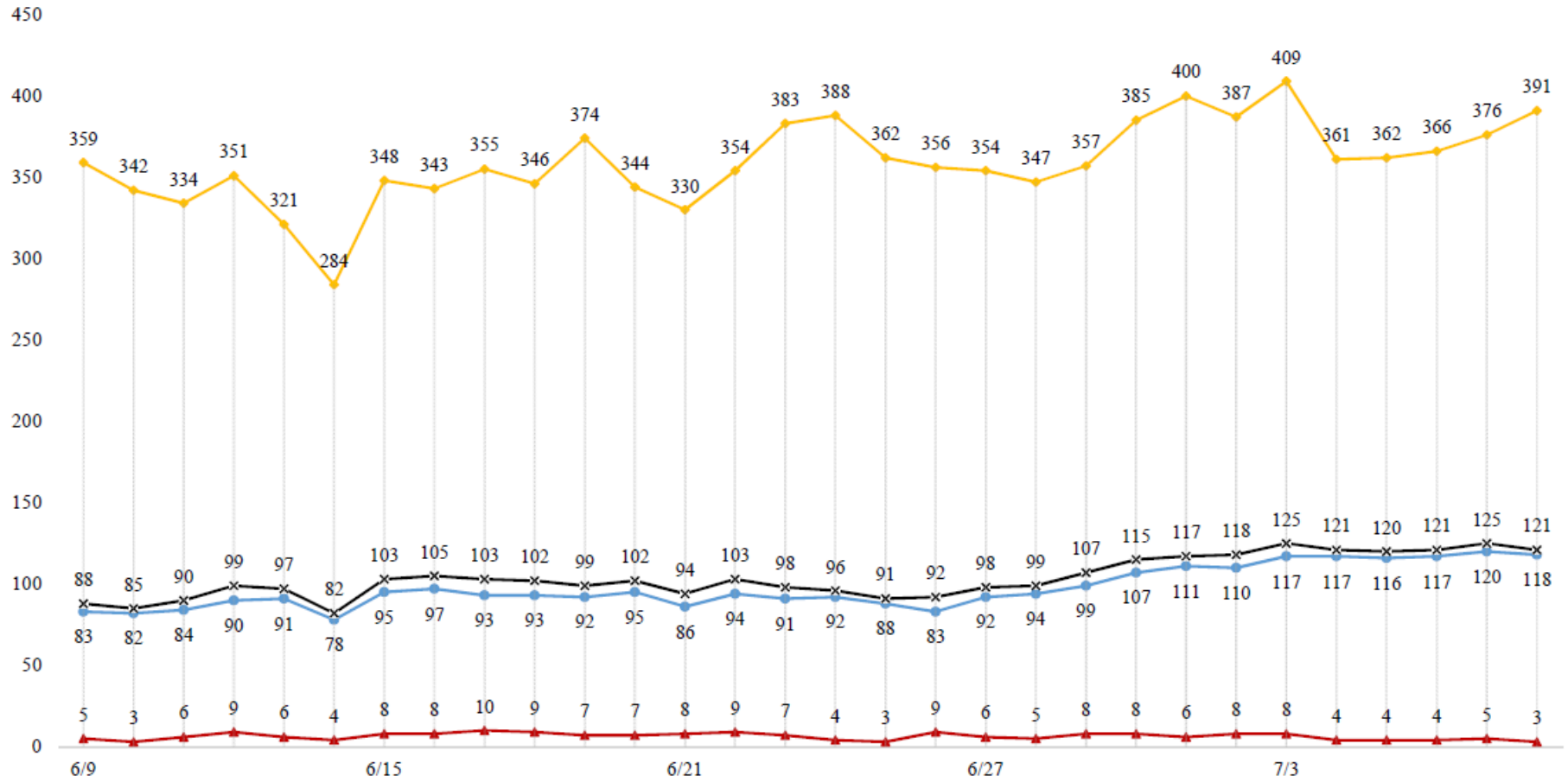


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COVID 19 ORANGE COUNTY HOSPITAL SYSTEM DATA (CA SNOWFLAKE SERVER)
VENTILATORS IN USE (06/09/20 - 07/08/20) | 33 ACUTE CARE FACILITIES REPORTING



DATE	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30	7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8
CONFIRMED ●	83	82	84	90	91	78	95	97	93	93	92	95	86	94	91	92	88	83	92	94	99	107	111	110	117	117	116	117	120	118
SUSPECTED ▲	5	3	6	9	6	4	8	8	10	9	7	7	8	9	7	4	3	9	6	5	8	8	6	8	8	4	4	4	5	3
CVD+ TTL X	88	85	90	99	97	82	103	105	103	102	99	102	94	103	98	96	91	92	98	99	107	115	117	118	125	121	120	121	125	121
SYSTEM OCC ◆	359	342	334	351	321	284	348	343	355	346	374	344	330	354	383	388	362	356	354	347	357	385	400	387	409	361	362	366	376	391

CONFIRMED - Mechanical Ventilators in use for COVID Confirmed Patients - The number of patients hospitalized in an inpatient bed who have laboratory-confirmed COVID and are on a mechanical ventilator at the time the data is collected.

SUSPECTED - Mechanical Ventilators in use for Suspected COVID Patients - The number of suspected COVID patients hospitalized in an inpatient bed who are on a mechanical ventilator at the time the data is collected.

CVD+TTL - Mechanical Ventilators in use for Hospitalized COVID Patients - The number of patients hospitalized in an inpatient bed who have suspected or confirmed COVID and are on a mechanical ventilator at the time the data is collected. Added to SmartSheet April 21, 2020.

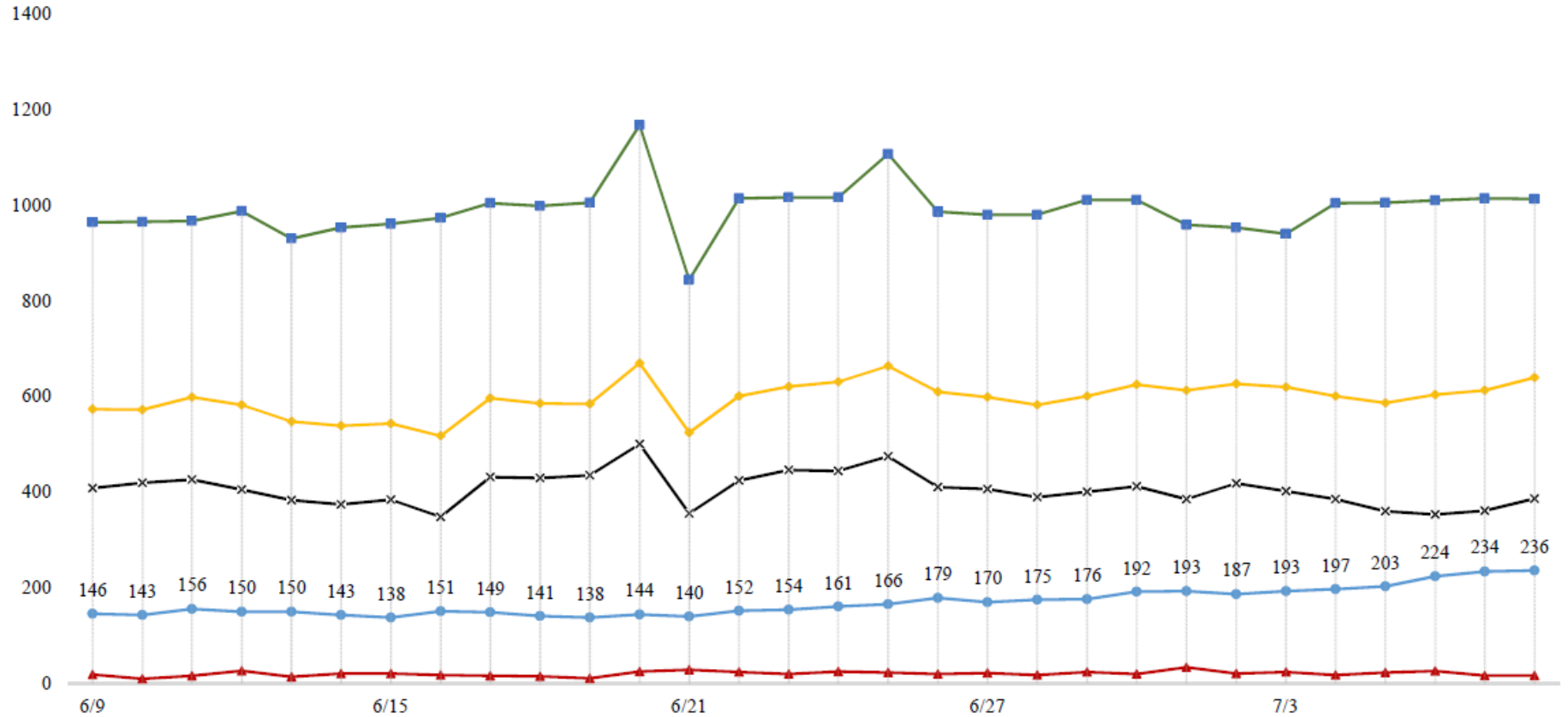
SYSTEM - OCC - The number of mechanical ventilators, including anesthesia machines and portable/transport ventilators, in use for patients with any diagnosis in the hospital - including Neonatal (NICU), Pediatric (PICU), and adult ICU units. As of April 21, 2020 NICU/PICU patients were added to ventilator reporting.

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**COVID 19 ORANGE COUNTY HOSPITAL SYSTEM DATA (CA SNOWFLAKE SERVER)
OCCUPIED ICU BEDS (06/09/20 - 07/08/20) | 33 ACUTE CARE FACILITIES REPORTING**



DATE	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30	7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8
CONFIRMED ●	146	143	156	150	150	143	138	151	149	141	138	144	140	152	154	161	166	179	170	175	176	192	193	187	193	197	203	224	234	236
SUSPECTED ▲	19	10	16	27	14	21	21	18	16	15	11	25	29	24	20	25	23	20	22	18	24	20	34	21	24	18	23	26	17	17
OTHER ICU X	408	419	426	405	383	374	384	348	431	429	435	500	355	424	446	444	474	410	406	389	400	412	385	418	402	385	360	353	361	386
SYSTEM OCC ◆	573	572	598	582	547	538	543	517	596	585	584	669	524	600	620	630	663	609	598	582	600	624	612	626	619	600	586	603	612	639
SYSTEM TTL ■	963	964	966	986	929	952	960	972	1003	997	1004	1166	843	1013	1015	1015	1106	985	979	979	1010	1010	958	952	939	1003	1004	1009	1013	1012

CONFIRMED - The number of laboratory-confirmed positive COVID patients that are in the ICU at the hospital. This includes all ICU beds (NICU, PICU, and adult). NICU and PICU patients were added to ICU reporting on April 21, 2020.

SUSPECTED - The number of symptomatic patients, with tests for COVID pending laboratory confirmation, that are in the ICU at the hospital. This includes all ICU beds (NICU, PICU, and adult). NICU and PICU were added to ICU reporting on April 21, 2020.

OTHER ICU - The number of non-COVID confirmed or suspected patients that are in the ICU at the hospital. This includes all ICU beds (NICU, PICU, and adult). NICU and PICU were added to ICU reporting on April 21,

SYSTEM - OCC - The number of all staffed ICU beds occupied by patients at the time the data is collected. This includes all ICU beds (NICU, PICU, and adult). NICU and PICU were added to reporting on April 21, 2020.

This is a calculated field. sum('ICU COVID Confirmed Patients', 'ICU Other Patients', 'ICU Suspected COVID Patients')

SYSTEM TTL - The number of all staffed ICU beds including surge/expansion beds used for critically ill inpatients. Note, the number of ICU beds provided should be higher than the number in the ICU Bed Occupancy field. Neonatal ICU (NICU) and Pediatric ICU (PICU) beds were added to ICU reporting as of April 21, 2020.

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Reporting Date: 7/07/20 (33/33 ACHs reported)	Acute Care Hospital PPE – DAYS ON HAND			
	0 - 3 days	4 - 14 days	15+ days	Non Reported
N95 Masks	2	7	18	6
Surgical Masks	2	6	19	6
Face Shields	1	9	17	6
PAPR Hoods	7	7	8	11
Eye Protection	2	5	20	6
Gowns	0	10	17	6
Gloves	5	10	12	6

- On a routine basis, the MHOAC tracks daily hospitalizations, census, occupancy and PPE availability as well as reviews epidemiologic data (doubling time).
- The criteria in the table below serve as objective measures to identify the need for hospitals to shift to crisis care strategies (i.e. activate surge plans) & uses the following assumptions:
 - Increased pressure in hospitals & on the EMS system requires a shift to crisis care strategies
 - Low levels of PPE will come earlier than decreased capacity and cause an abrupt change in capacity.
 - Increased hospitalizations and low PPE could have a synergistic effect to reduce capacity.
 - Low levels of PPE is not just a marker of capacity but causes capacity issues.

Hospital Criteria for shifting to Crisis Care Strategies			
LEGEND			
CRITERIA	STATUS		
	Normal Operations	Modified Operations Under Control	Modified Operations Assistance Needed
Rate of change in Hospitalized COVID-19 patients (doubling time over last 7 days)	Never to 4 weeks to double	4 weeks to 2 weeks to double	Less than 2 weeks to double
Absolute COVID-19 Census in the hospital	Less than 500	500-750	>750
Hospital census as a percentage of capacity	<80%	80% to 90%	>90%
Supply of PPE available in the hospitals	>4 weeks	2 to 4 weeks	< 2 weeks

Hospital Criteria for shifting to Crisis Care Strategies			
7/9/20			
CRITERIA	STATUS		
	Normal Operations	Modified Operations Under Control	Modified Operations Assistance Needed
Rate of change in Hospitalized COVID-19 patients (doubling time over last 7 days)		22.2 days	
Absolute COVID-19 Census in the hospital		691	
Hospital census as a percentage of capacity	65%		
Supply of PPE available in the hospitals		2 to 4 weeks	

- It is important to note that the basis of the table is that these are concepts and criteria that we use to judge how the system is being affected by the COVID-19 pandemic. The numbers and colors given are a guideline, not a hard and fast rule. For example, if in 2 weeks our hospitalized cases go up by a factor of 1.8 to a level of 740, we will still consider that to be very concerning and would not wait until the doubling time worsens or the census tops 750.
- Hospital Surge Plans are already activated to an extent, as conditions worsen (higher COVID-19 inpatient burden, Staffing struggles, PPE concerns) the crisis care strategies of
- Does this trigger a shift to crisis care strategies and an activation of surge plans?
That number is one factor. Surge plans are already activated to an extent. Increased concerns (more factors in the worrisome category) means increased amount of surge as in the next question.

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- What are the surge plans and crisis care strategies that would be implemented?
 - Modifying units, such as converting beds/rooms to ICUs and negative pressure rooms
 - Expanded beds also includes surge tents
 - Flexing nursing staffing ratios
- How was the 750-patient threshold determined?
Initial surge capacity of the hospitals was around 1000 beds. We figured that if we were getting close to that number, we need to take extra steps beyond the initial ones. Again, the exact number is not as important as the concept of stress on the system.
- All hospitals are impacted. We initially saw the highest degree of hospital burden in the hot spots of the county (Anaheim and Santa Ana), but as COVID-19 has become more widespread we are seeing the burden shift to hospitals based on their size, not just location.

AGENCY OPERATIONS CENTER / LOGISTICS SECTION

- AOC Activated at Level II; Hours of Operation Mon & Thurs 0900-1600; Warehouse Ops M-F 0900-1600
- SCARCE Resources: N95, Gloves, Testing Kits, Wipes
- DEPLETED Resources: Gowns

Total Activity		
INQUIRIES	RR RECEIVED	RR FILLED
13,299	6,593	4,905 (74%)

Logistics Daily Units Distributed 07-06-20	
N95 Mask	3,020
Surgical Mask	0
Gown	450
Gloves	4,500
Face Shields/Eye Protection	96
Hand Sanitizer	100
Other	92
Total Units	8,258

Inventory Report February 18 to July 2, 2020	
Medical Supply/Equipment Total Units Distributed	
N95 Mask	1,934,445
Surgical Mask	767,305
Gowns	608,223
PPE-Suit	12,812
Gloves	486,500
Eye Protection	130,790
Hand Sanitizer	206,989
Other Items	249,313
Total Units	4,396,377

ALTERNATE CARE SITE

*Site open indefinitely to support hospital/SNF decompression

Fairview (COVID-19 +)		
Patient Census (as of 7/9/2020 07:30)	CURRENT	TOTAL
Orange County	16	41
LA County	1	14
Ventura County	0	1
Total patients CENSUS / TOTAL ACCEPTED	17	56
Patients Discharged		TOTAL
AMA		0
DISCHARGED		39
TRANSFERRED		0