

COVID -19 DATA REPORT

Millicent Wilson,
MD

Emergency
Medicine

Los Angeles
County EMS
Agency



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins ...



Global Cases

54,814,867

Cases by

Country/Region/Sovereignty

11,188,766 US

8,845,127 India

5,863,093 Brazil

1,932,711 Russia

1,916,047 France

1,496,864 Spain

1,394,295 United

Admin0



Map controls including zoom in (+), zoom out (-), and a legend icon.

Cumulative Cases Active Cases Incidence Rate Case-Fatality Ratio Testing Rate

Global Deaths

1,322,963

247,101 deaths US

165,798 deaths Brazil

130,070 deaths India

98,542 deaths

Global Dea...

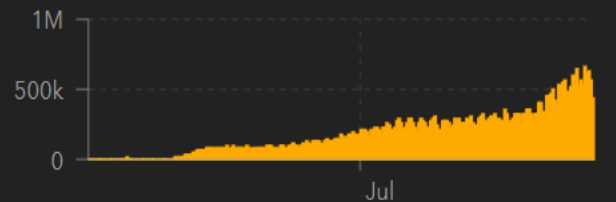
US State Level

Deaths, Recovered

34,054 deaths, 81,788 recovered New York US

20,036 deaths, 871,784 recovered Texas US

US Deaths,...



Daily Cases

Last Updated at (M/D/YYYY) 11/16/2020, 3:25 PM

191 countries/regions

Lancet Inf Dis Article: Here. Mobile Version: Here. Data sources: Full list. Downloadable database: GitHub, Feature Layer.



COVID-19 United States Cases by ...

Johns Hopkins Univ...

States/Territories

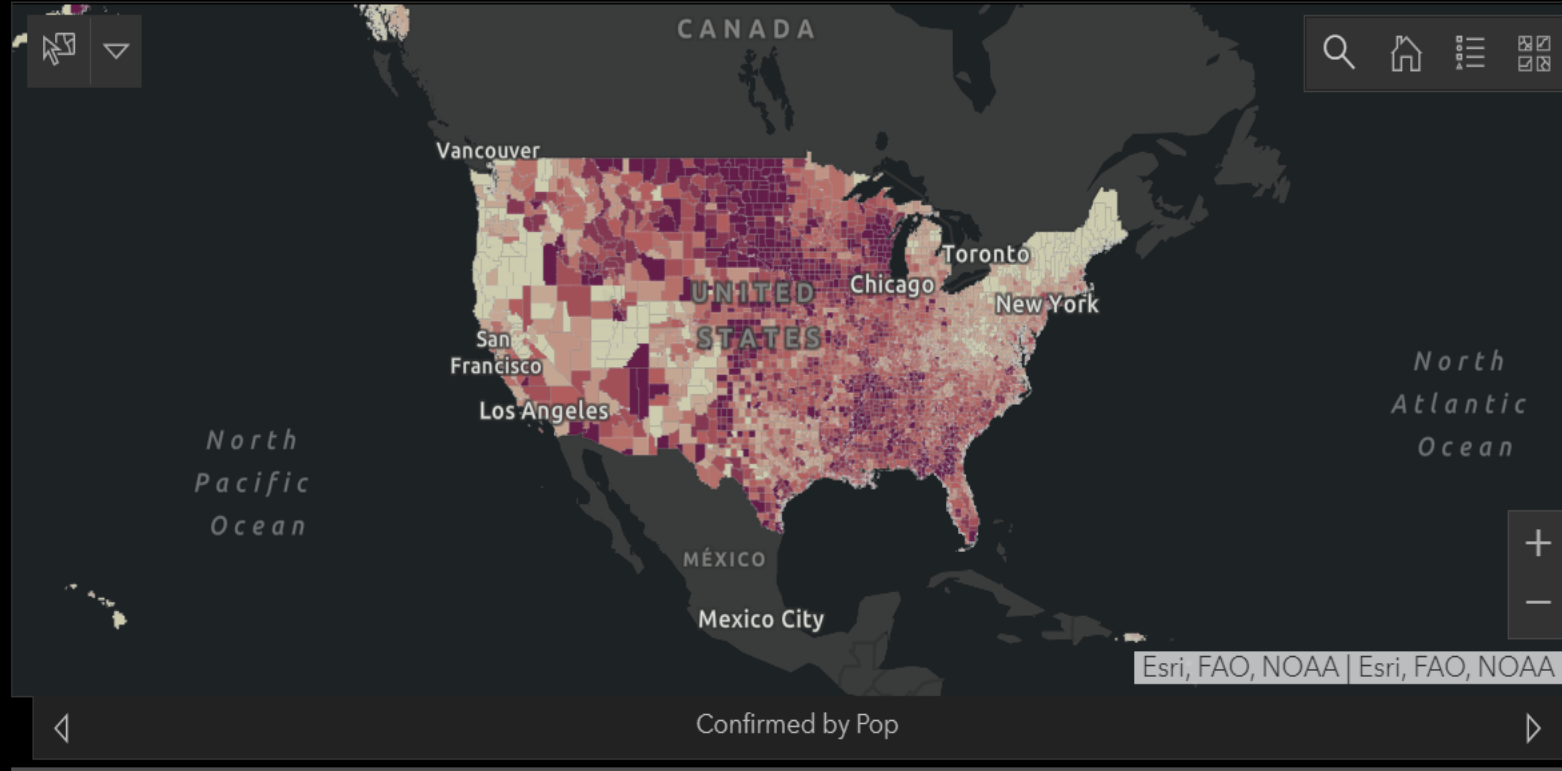
Please select from list

County (or Equivalent)

Please select f...

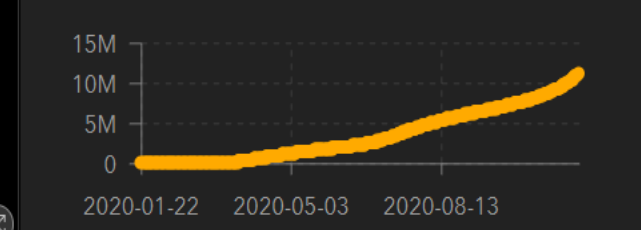
Top 50 Confirmed Cases by County

- 339,560 confirmed
Los Angeles
- 251,101 confirmed
Cook
- 202,644 confirmed
Miami-Dade
- 176,204 confirmed
Maricopa
- 174,493 confirmed



Top 20 Counties by Number of Deaths

- 7,452 deaths
Kings
- 7,322 deaths
Queens
- 7,269 deaths
Los Angeles
- 5,996 deaths
Cook
- 5,020 deaths
Bronx



Data is updated once per day to allow the system to pull county-level data. For the most up-to-date confirmed cases and deaths, please see the COVID-19 Global Map. New York City borough deaths data does not include Probable COVID-19

United States COVID-19 Cases and Deaths by State

Reported to the CDC since January 21, 2020

TOTAL CASES

10,984,398

+138,025 New Cases

CASES IN LAST 7 DAYS PER

100K

46.2

TOTAL DEATHS

245,470

+660 New Deaths

CDC | Updated: Nov 16 2020 12:16PM

View:

- Cases
- Deaths

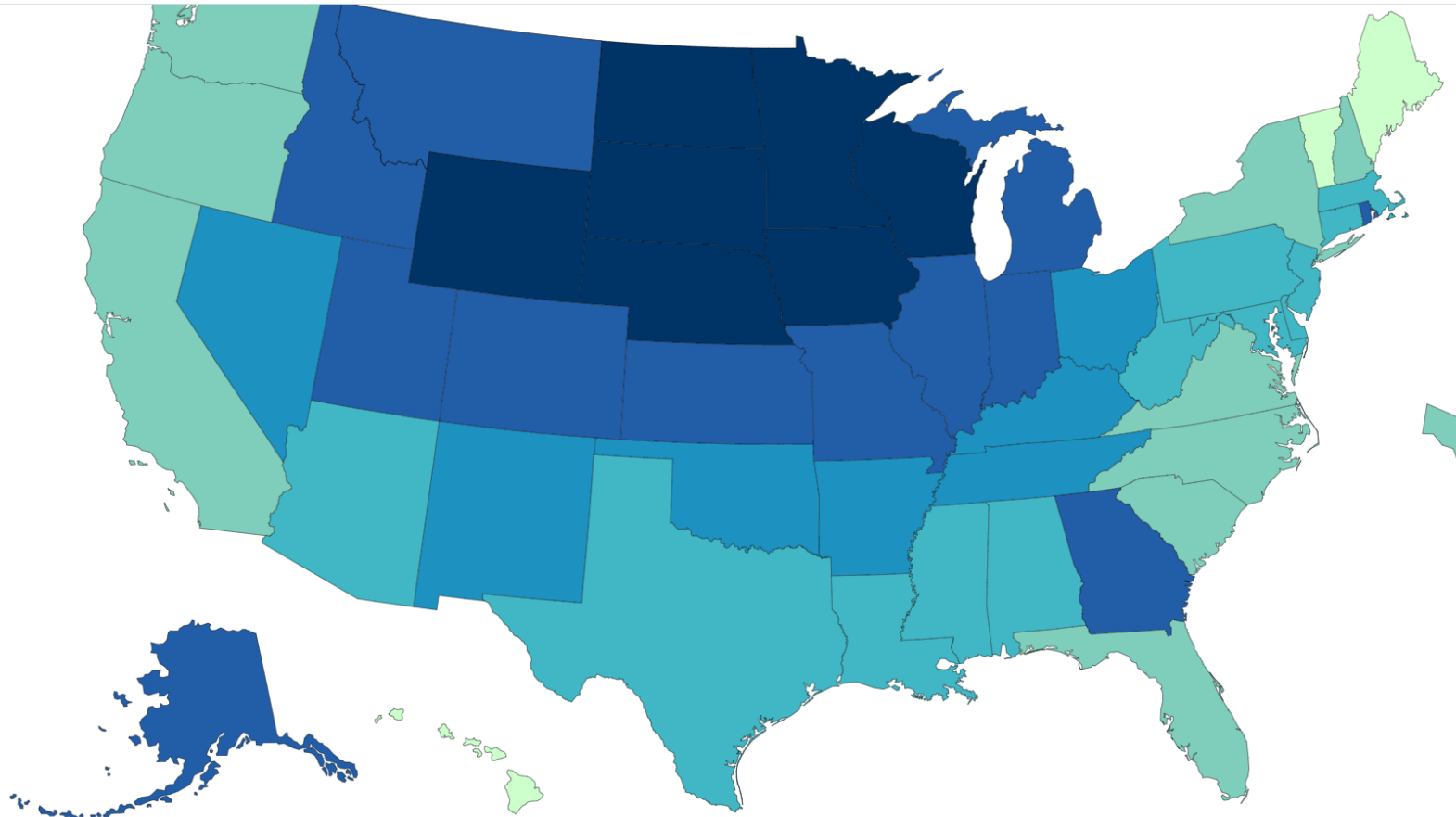
Time period:

- Last 7 Days
- Since Jan 21, 2020

Metric:

- Count
- Rate per 100,000

US COVID-19 Case Rate Reported to the CDC in the Last 7 Days, by State/Territory (cases per 100K)



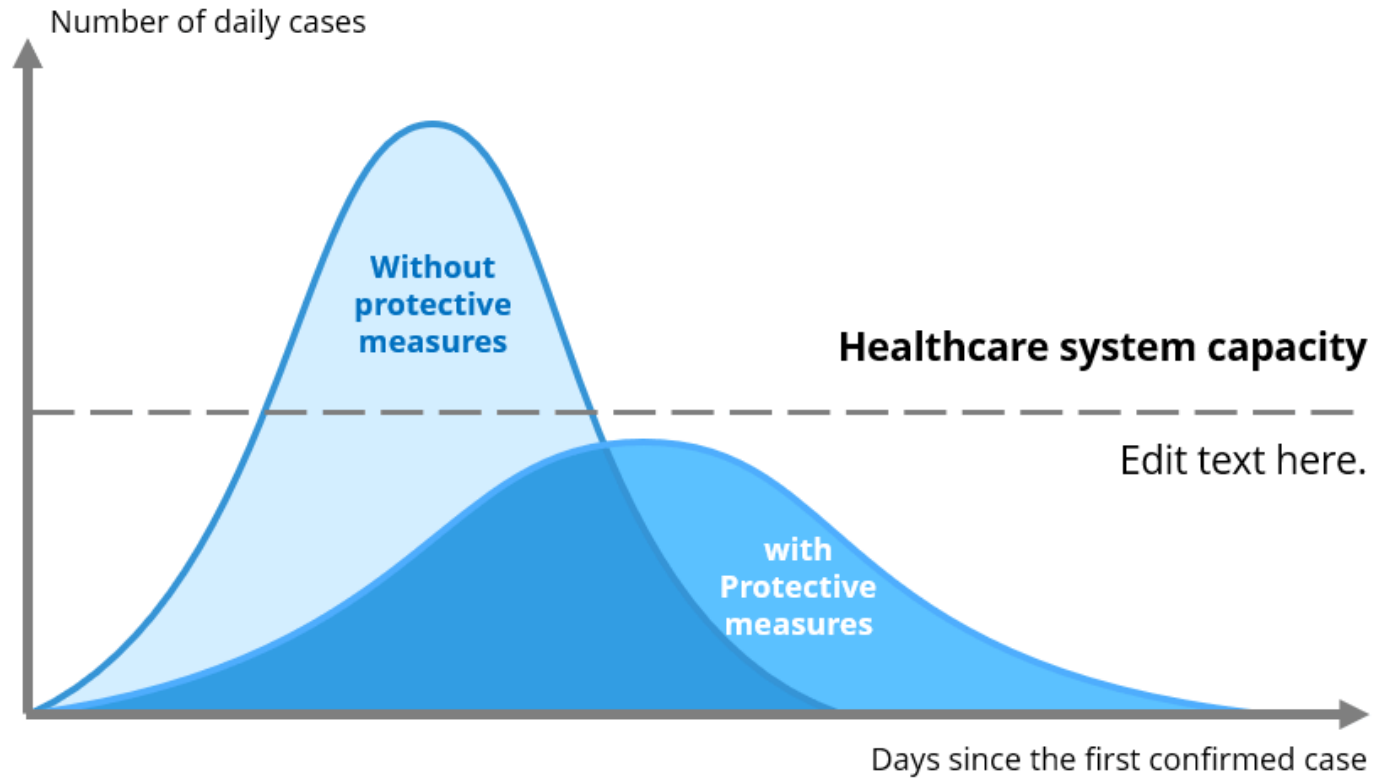
Territories



Case in Last 7 Days per 100,000



Flattening the Curve



slidehunter.com

WHAT IS OUR GOAL????
TO FLATTEN THE COVID-19 CURVE!!!



Crowded
Places



Confined
Spaces



Close
Contact with
those that
we do not
live with



Wear a
Mask



Wash
our
Hands



Clean
and
Disinfect

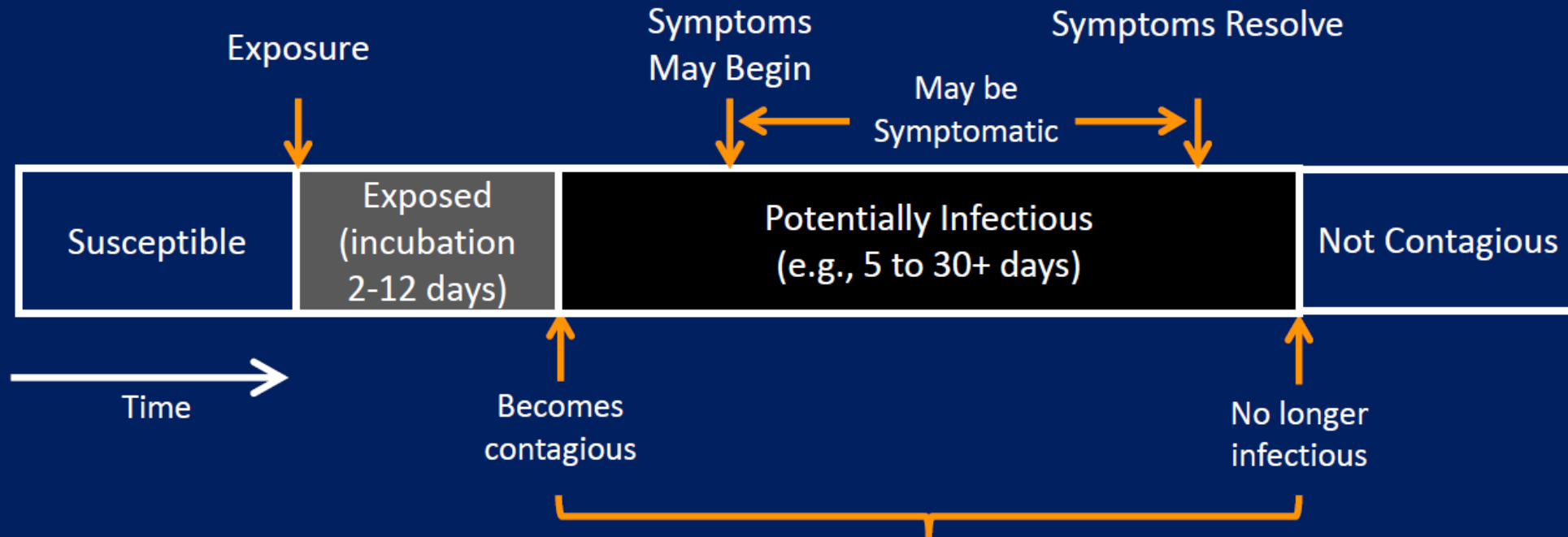


WHAT DO WE DO TO AVOID COVID-19?

“EVERY ACTIVITY THAT INVOLVES
CONTACT WITH OTHERS HAS SOME
DEGREE OF RISK RIGHT NOW”

CDC – Center for Disease Control & Prevention

A Patient's Journey | COVID-19



Goal of physical distancing, public use of cloth face coverings, quarantine, isolation and similar actions *is to reduce the number of new susceptible people exposed during this time*

Projections of Hospital-based Healthcare Demand due to COVID-19 in Los Angeles County

November 11, 2020 Update

County DHS COVID-19 Predictive Modeling Team:

Roger J. Lewis, MD, PhD;¹ Juliana Tolles, MD, MHS;¹ M. Claire Jarashow, PhD, MPH;² Fei Wu, PhD;³ Joe Marion, PhD;⁴ Kert Viele, PhD;⁴ Todd Graves, PhD;⁴ Henry Shin;¹ Frederic Schoenberg, PhD;⁵ Andrea Bertozzi, PhD;⁵ Tom Belin, PhD⁵

1. Los Angeles County, Department of Health Services
2. Los Angeles County, Department of Public Health
3. Los Angeles County, Office of the Chief Information Officer
4. Berry Consultants, LLC, Austin, TX
5. University of California, Los Angeles



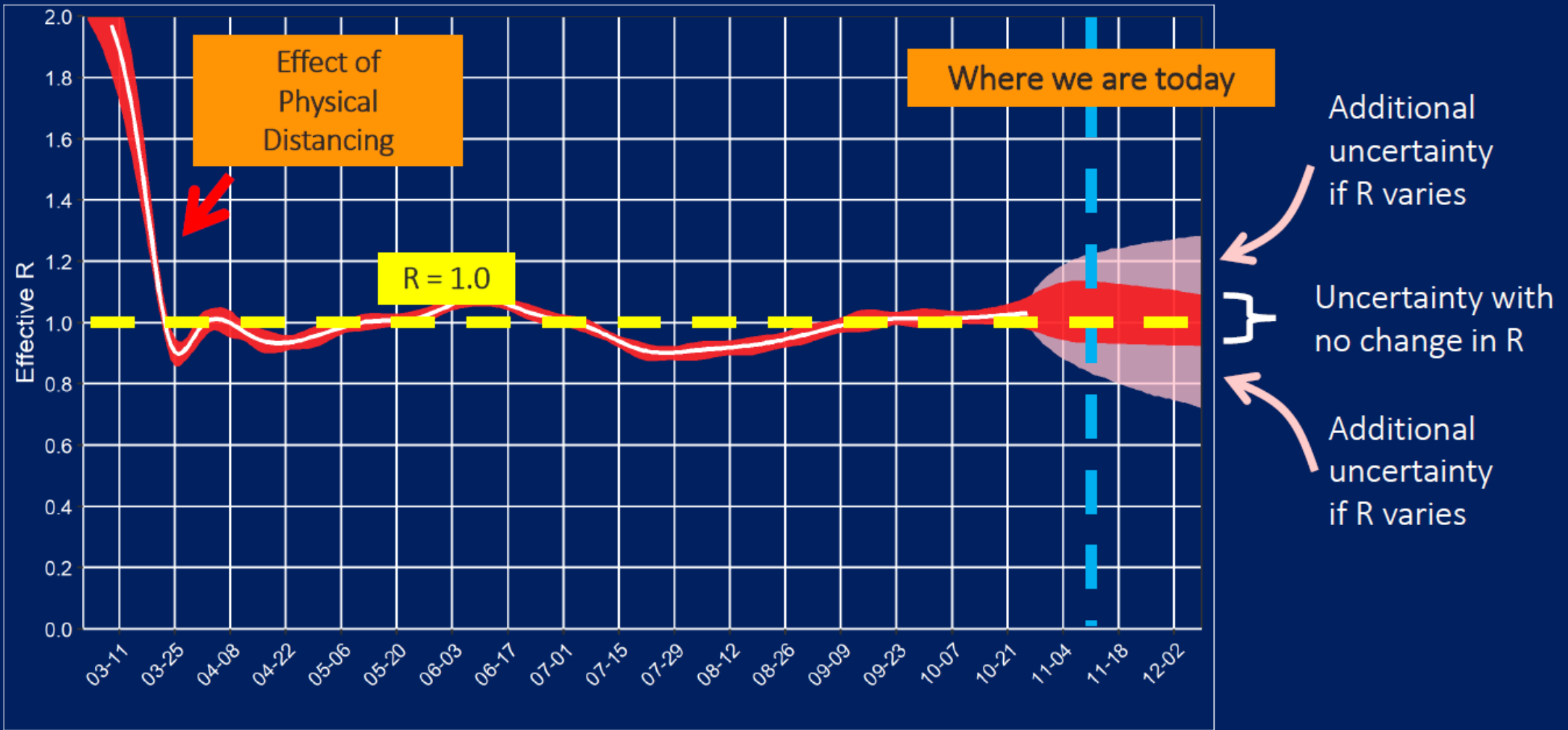
How Many in Los Angeles are Infectious to Others?

- The DHS team's epidemic model estimates the number of people in Los Angeles County who:
 - Are still **susceptible** to infection if exposed;
 - Have been **exposed** and are incubating, but not infectious;
 - Have COVID-19 and are **infectious** to others, though they may have no symptoms; and
 - Have had COVID-19 and either **recovered** or died, so they are no longer infectious
- The model suggest that about 0.17% (uncertainty of 0.11% to 0.26%) of everyone in Los Angeles County is currently infected and infectious to others.
- This suggests about 1 in 580 (between 1 in 950 and 1 in 390) Los Angeles County residents are currently infectious to others. Last week this estimate was 1 in 670.



ONE IN 580 LOS ANGELES
COUNTY RESIDENTS ARE
CURRENTLY INFECTIOUS
TO OTHERS!!

Effective Transmission Number "R"



Note: We have adjusted the R that we present to account for the fraction of the population that is presumed to be immune to reinfection. At the beginning of the pandemic, this fraction was essentially zero so this would not have made any difference. But as more people have been infected, and are presumed to have immunity, we are presenting an R that includes this factor.



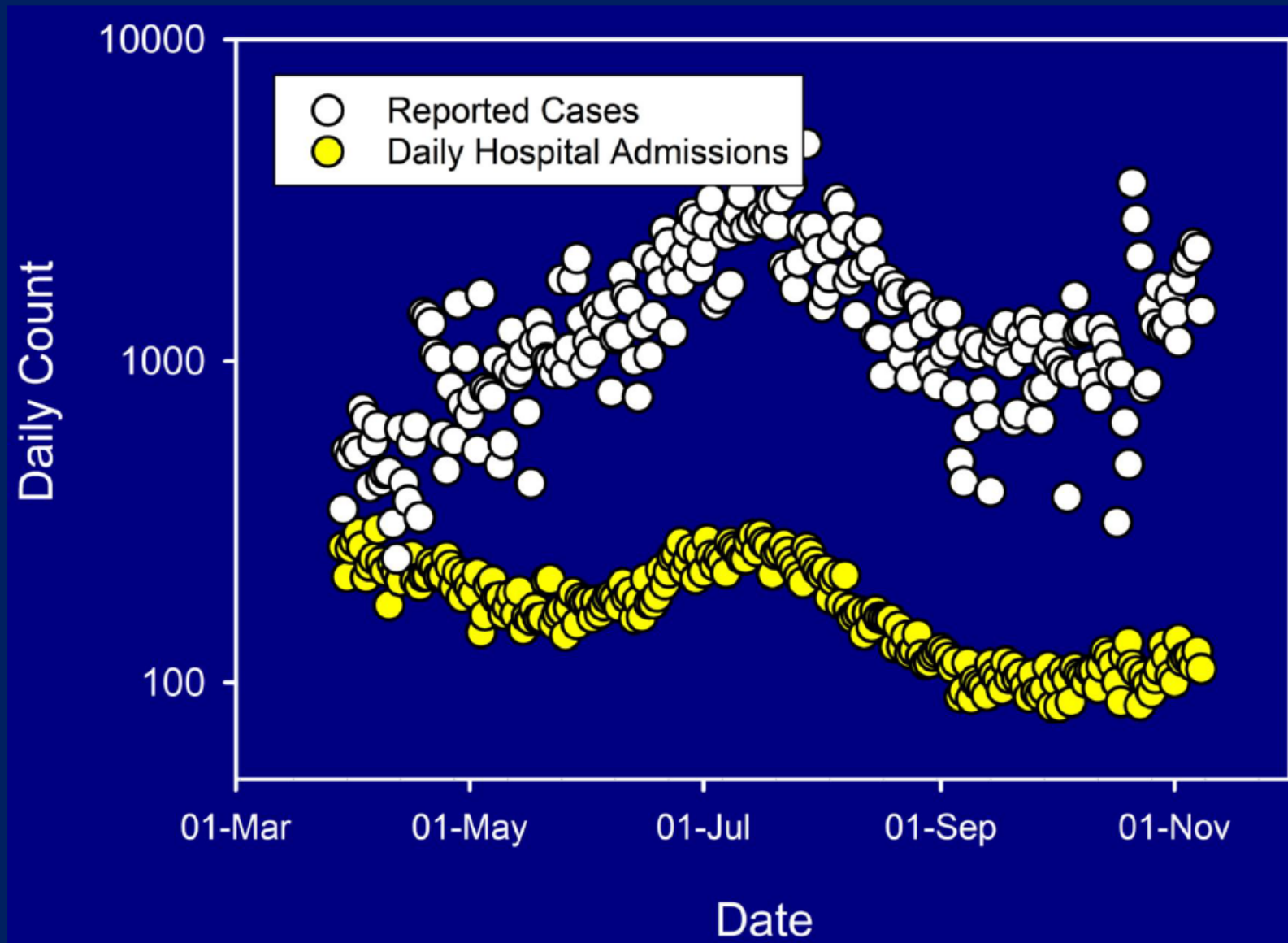
THE ESTIMATED TRANSMISSION NUMBER (“R”) = 1.03

The current “R” is 1.03

If “R” rises above 1, the number of cases will increase over time.

If “R” stays below 1, the number of cases will decrease over time.

Hospital Admissions are a Varying Fraction of New Cases

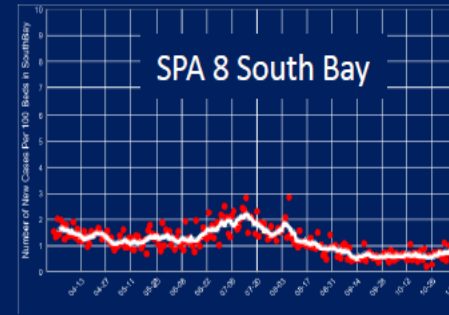
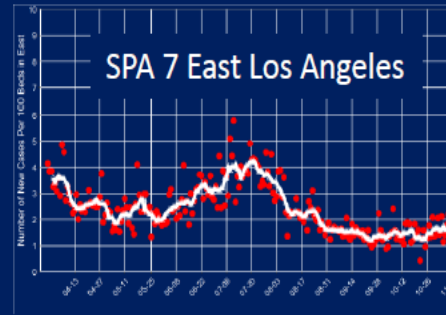
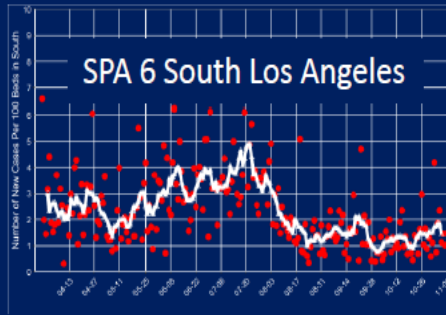
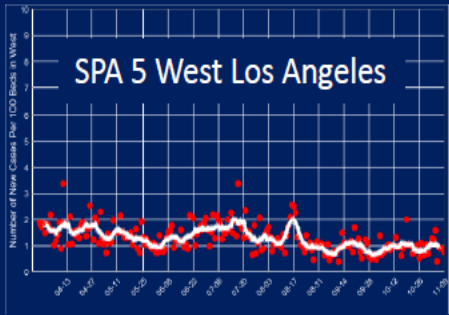
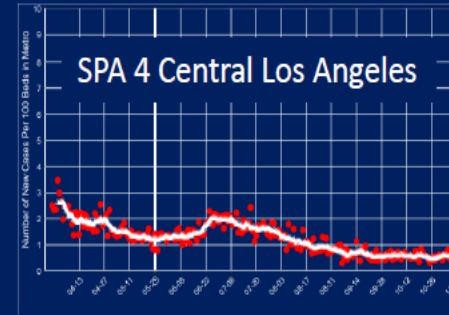
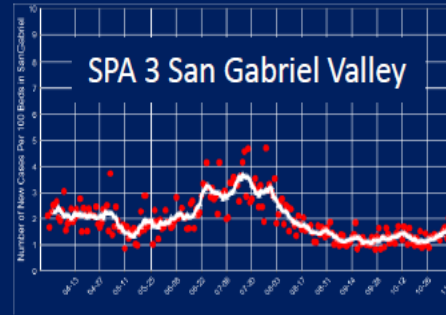
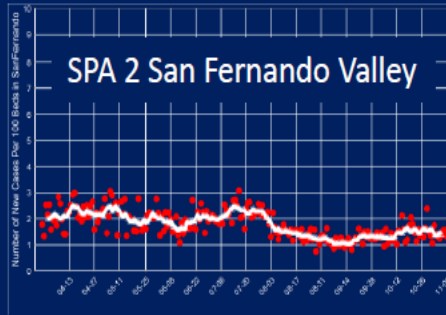
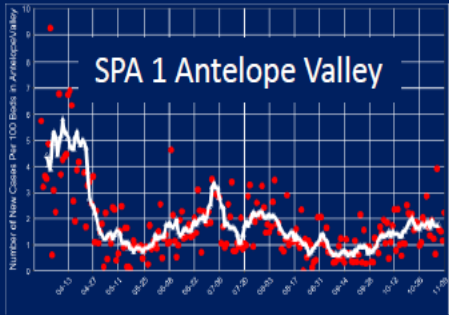




- ▶ 4084 Square Miles
- ▶ 10.2 Million People
- ▶ 73 911 Receiving Hospitals

WE ARE A LARGE COUNTY!!!

Daily New COVID-19 Hospitalizations by Service Planning Areas (SPAs), per 100 Hospital Beds



- The transmission of COVID-19 in Los Angeles County is changing over time, with different patterns in different geographic areas
- More detailed geographical analysis is required to identify specific communities needing additional support in identifying cases and limiting spread

Current County Risk Level: Tier 1 (Widespread)

[See Los Angeles County's metrics on CA Blueprint for a Safer Economy_page](#)

Metrics updated every Tuesday

LA County Daily COVID-19 Data

View other Los Angeles County COVID-19 Data Information Pages

[Locations & Demographics](#)

[COVID-19 Data Dashboard](#)

[COVID-19 Recovery Metrics](#)

[Contact Tracing Dashboard](#)

[Skilled Nursing Facility Dashboard](#)

Data through 8:00pm 11/12/2020

Cases

3,780

New Cases Reported (11/13)*

336,549

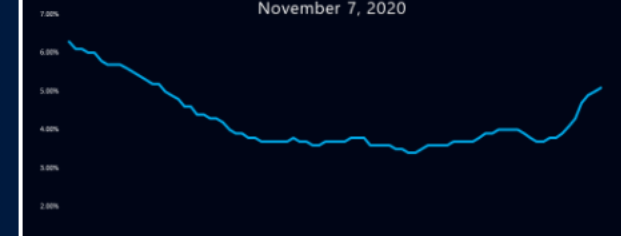
Testing

Daily Reported Number of COVID-19 Persons Tested with Diagnostic Tests, Past 7-day Average from 7 days Ago
November 7, 2020



Testing Positivity Rate

Daily Reported Percent of COVID-19 Diagnostic Tests that are Positive, Past 7-day Average from 7 days Ago
November 7, 2020



LA County Daily COVID-19 Data

View other Los Angeles County COVID-19 Data Information Pages

[Locations & Demographics](#)

[COVID-19 Data Dashboard](#)

[COVID-19 Recovery Metrics](#)

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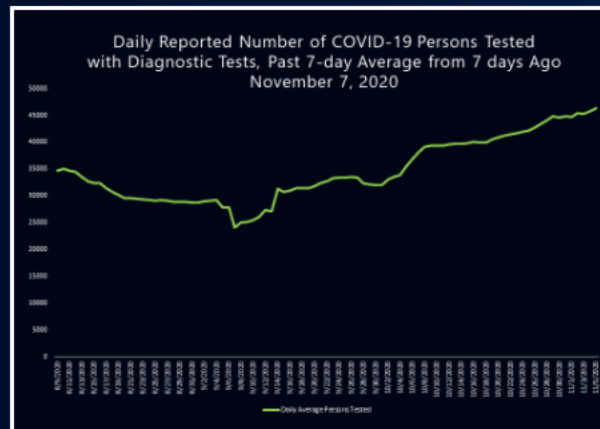
336,549

Total Cases Reported*

*including cases reported by Long Beach and Pasadena

Health Departments

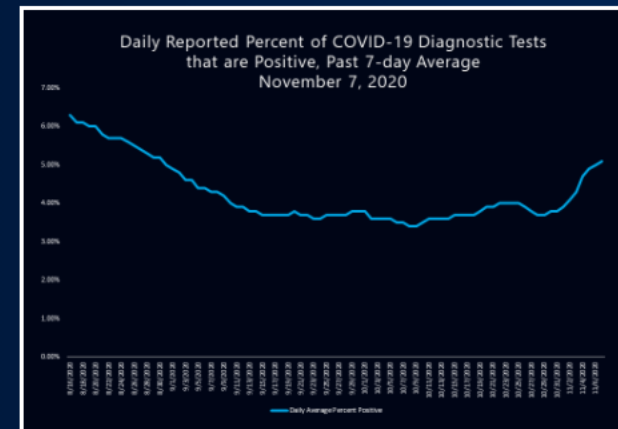
Testing



7-Day Daily Average: 48,662

Total Number of People Tested: 3,365,913

Testing Positivity Rate

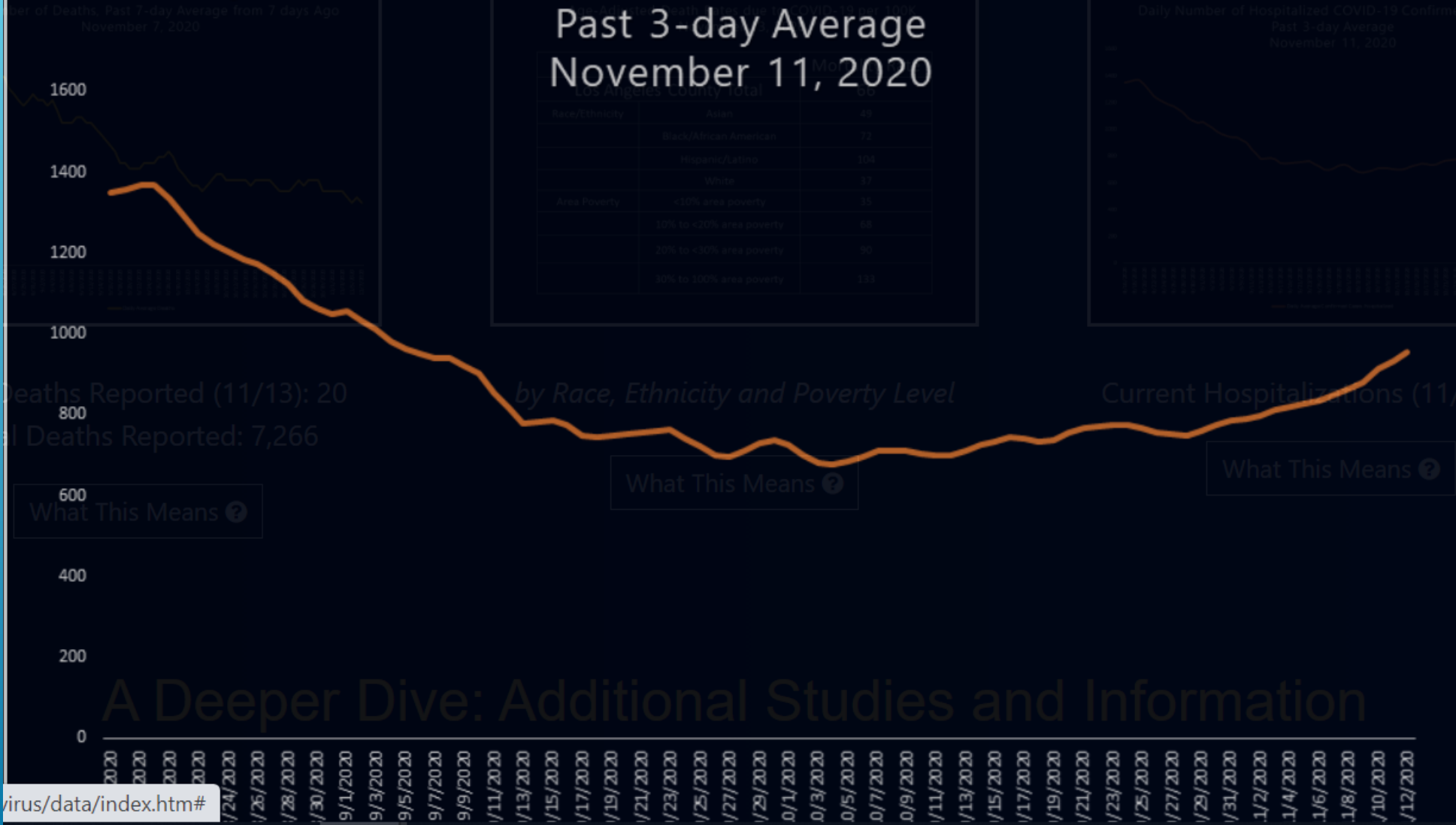


7-Day Daily Average: 5.1%

[What This Means](#)

Daily Number of Hospitalized COVID-19 Confirmed Patients,

Past 3-day Average November 11, 2020



Age-Adjusted Death Rates due to COVID-19 per 100K November 13, 2020

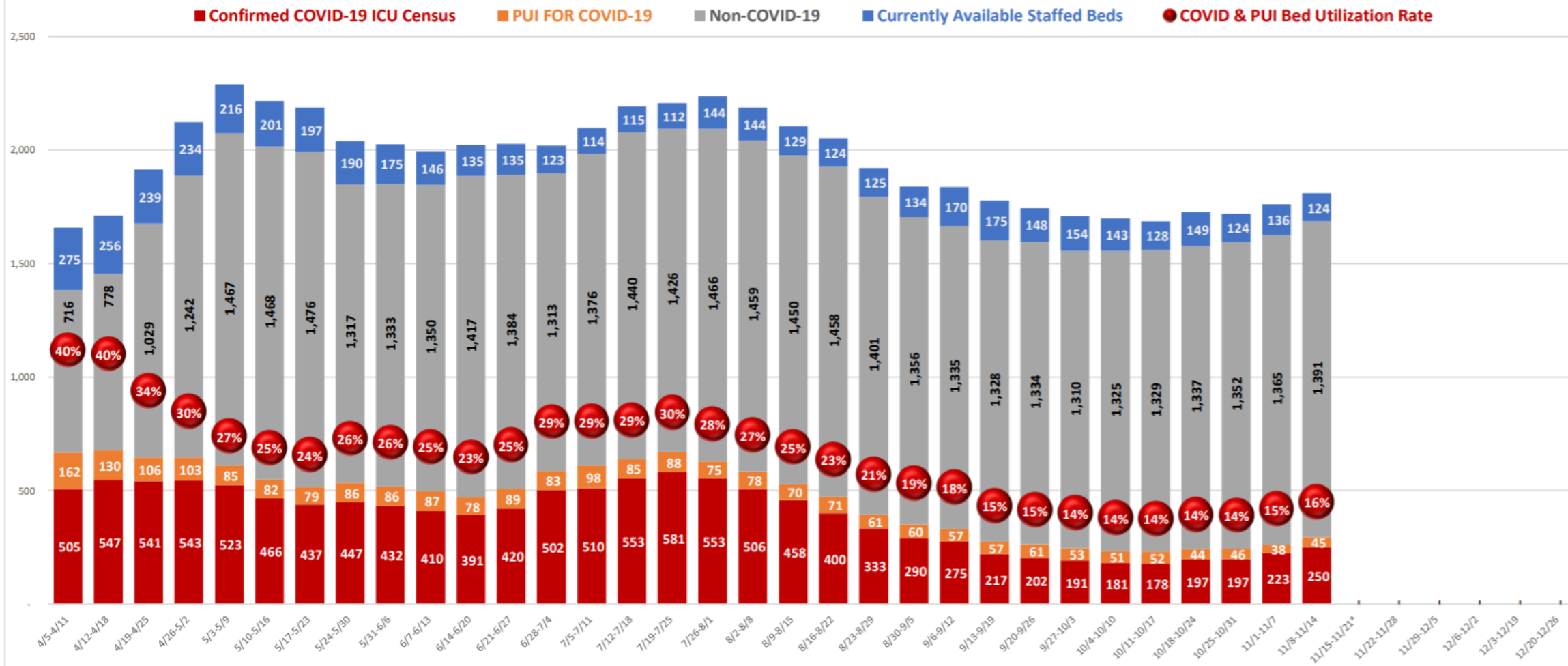
		Mortality Rate
Los Angeles County Total		66
Race/Ethnicity	Asian	49
	Black/African American	72
	Hispanic/Latino	104
	White	37
Area Poverty	<10% area poverty	35
	10% to <20% area poverty	68
	20% to <30% area poverty	90
	30% to 100% area poverty	133

COVID-19 HOSPITAL ASSESSMENT REPORT

AVERAGE DAILY INTENSIVE CARE UNIT (ICU) CENSUS: LA County 911 Receiving Hospitals (n=70)

Licensed ICU Beds: ~2,500 Reported ICU Surge Capacity on 4/15/20: 4,067

Estimated 2018 Population: 10,284,981

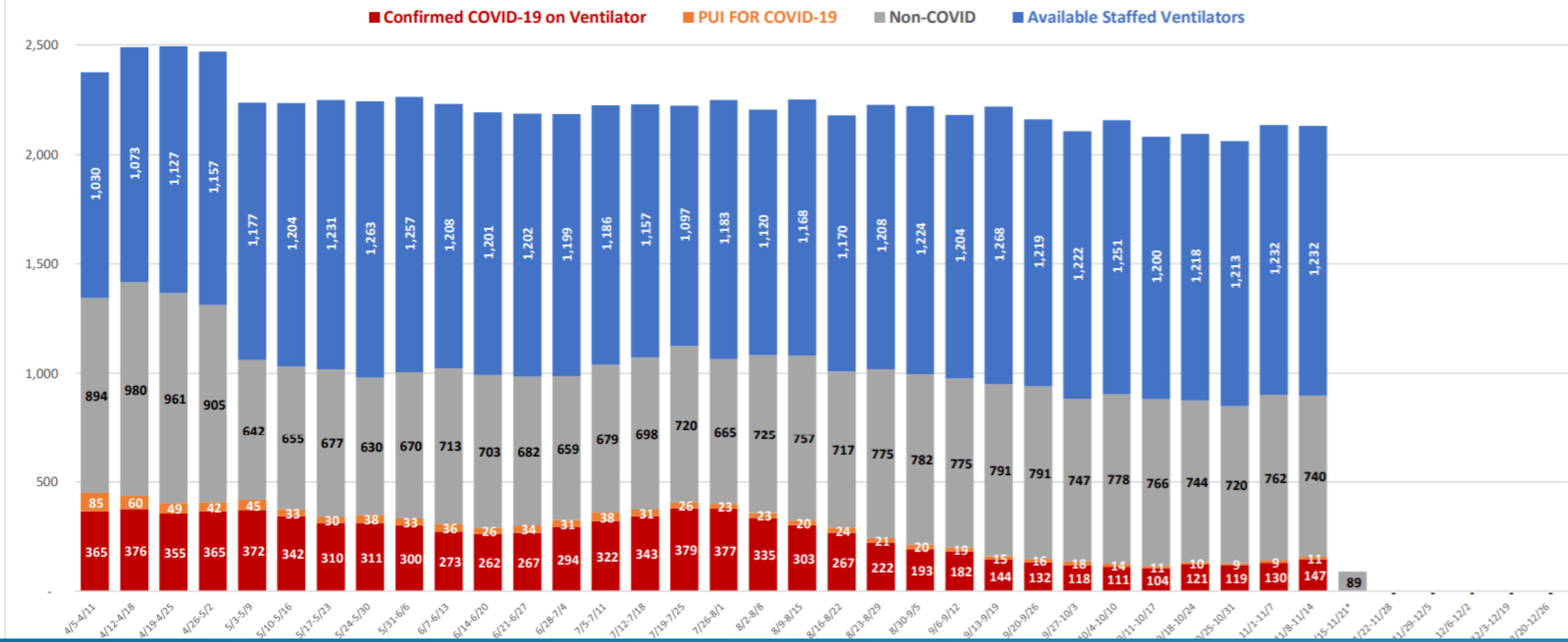


Los Angeles County Emergency Medical Services Agency COVID-19 HOSPITAL ASSESSMENT REPORT

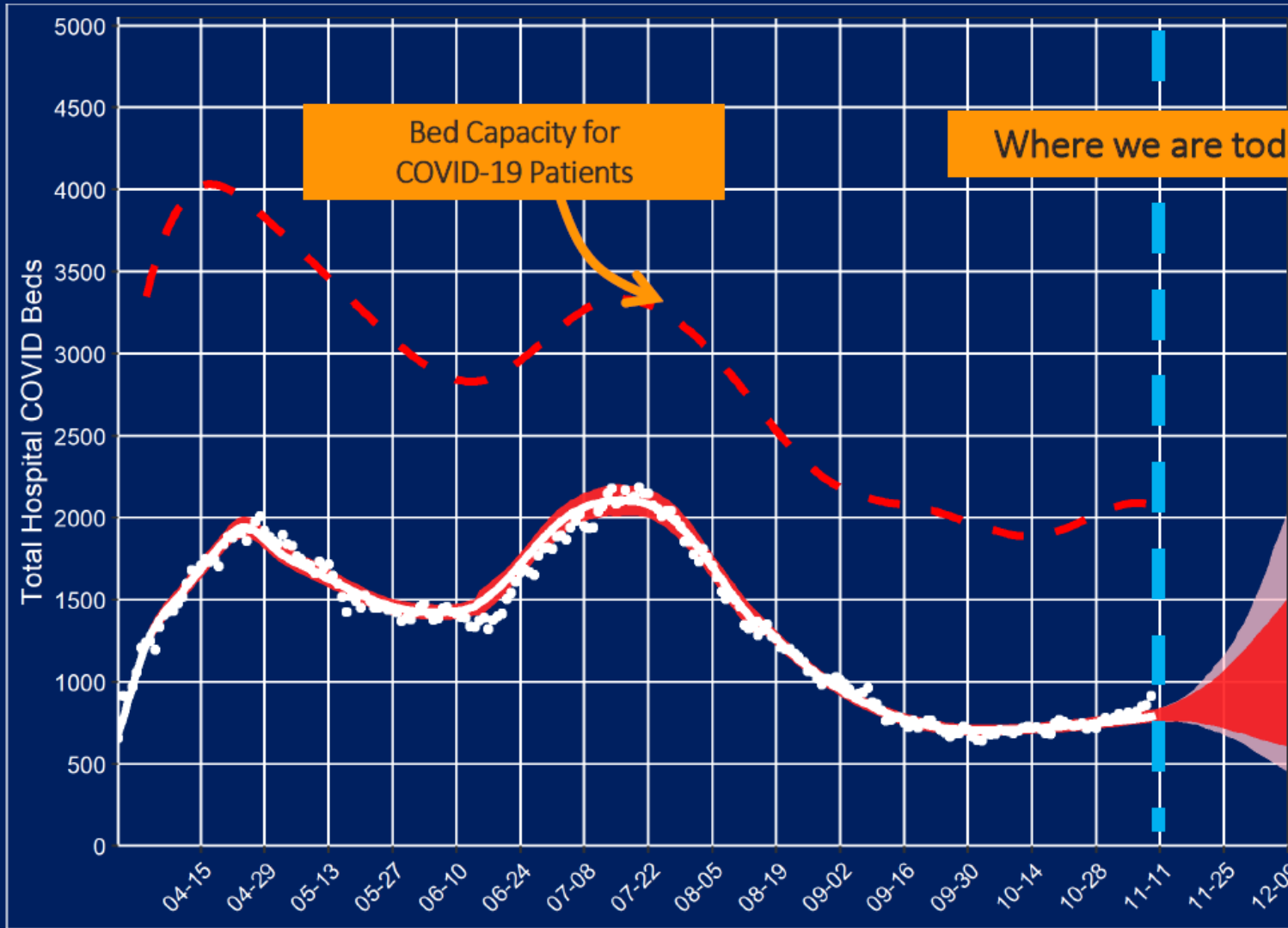
AVERAGE DAILY CENSUS OF PATIENTS ON MECHANICAL VENTILATION: LA County 911 Receiving Hospitals (n=70)

Reported Surge Capacity on 4/15/20 for Mechanical Ventilation: 3,199

Estimated 2018 Population: 10,284,981



Predictions of Demand in LA County | Hospital Beds



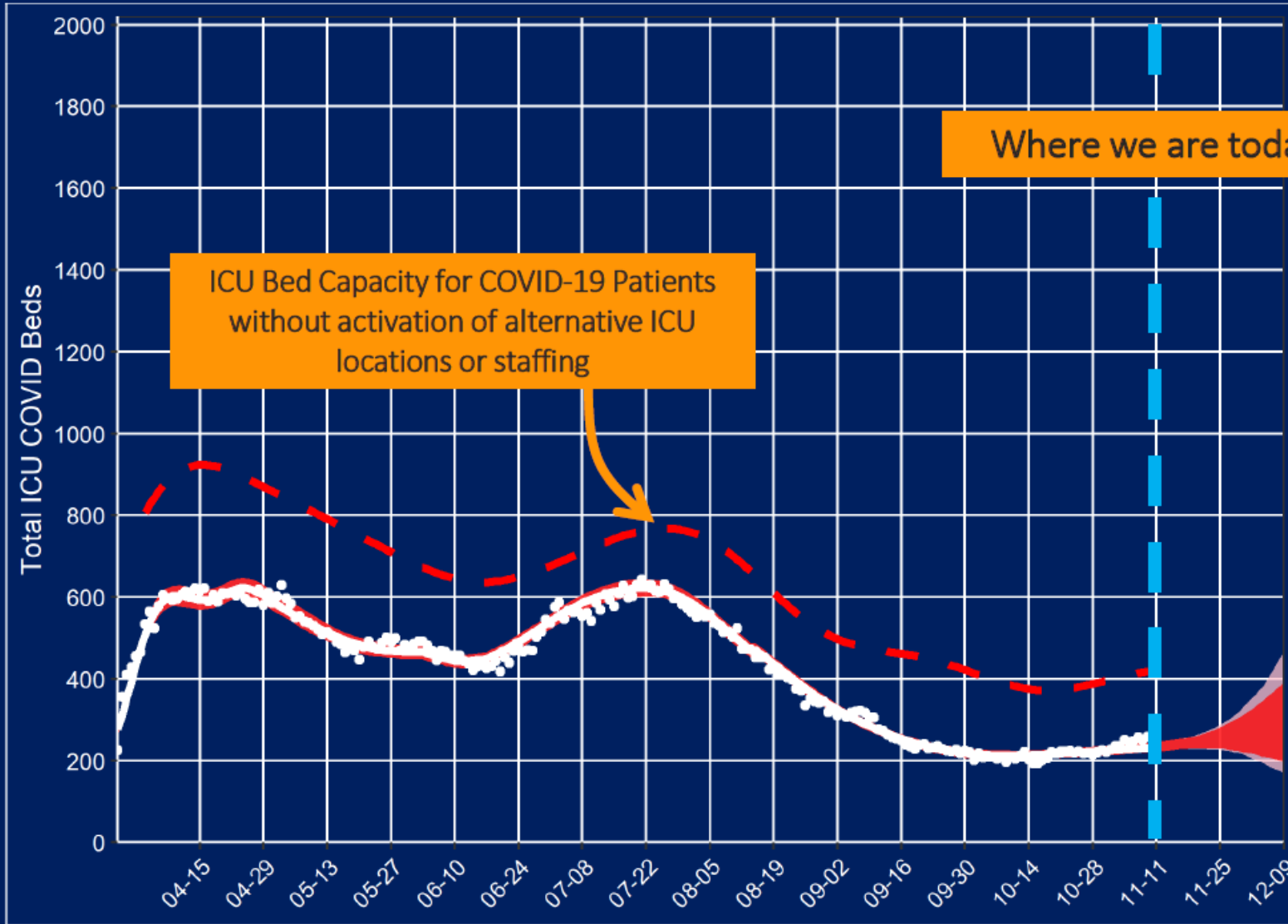
Bed Capacity for COVID-19 Patients

Where we are today

Additional uncertainty if R varies

Uncertainty with no change in R

Predictions of Demand in LA County | ICU Beds



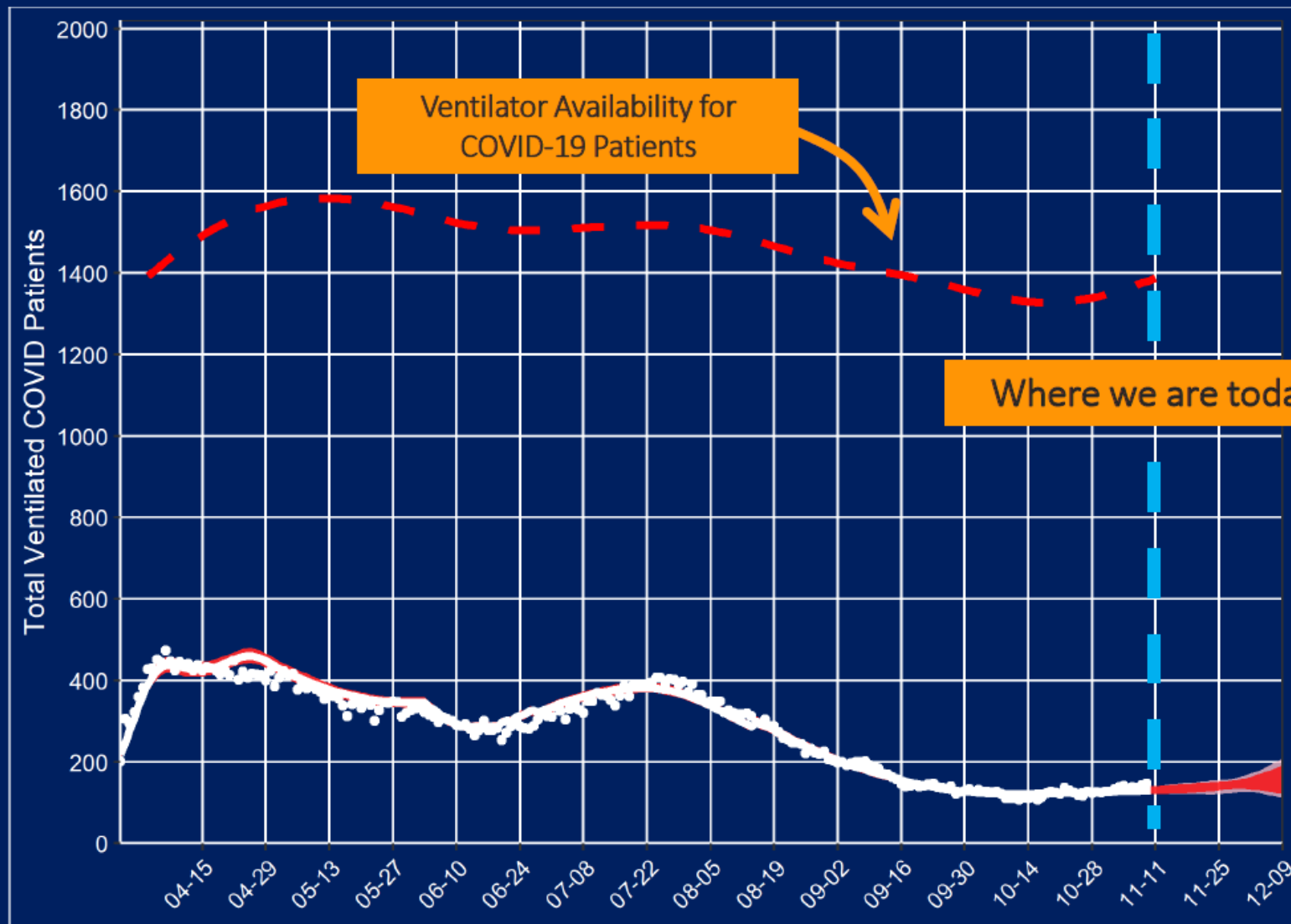
Where we are today

ICU Bed Capacity for COVID-19 Patients without activation of alternative ICU locations or staffing

Additional uncertainty if R varies

Uncertainty with no change in R

Predictions of Demand in LA County | Ventilators



Additional uncertainty if R varies

Uncertainty with no change in R



**VACCINES ARE ON THEIR
WAY!!**

A Phased Approach to Vaccine Allocation for COVID-19

PHASES OF VACCINE ALLOCATION

PHASE 1

Phase 1a “Jumpstart Phase”:

- High-risk health workers
- First responders

Phase 1b:

- People of all ages with comorbid and underlying conditions that put them at significantly higher risk
- Older adults living in congregate or overcrowded settings

PHASE 2

- K-12 teachers and school staff and child care workers
- Critical workers in high-risk settings—workers who are in industries essential to the functioning of society and at substantially higher risk of exposure
- People of all ages with comorbid and underlying conditions that put them at moderately higher risk
- People in homeless shelters or group homes for individuals with disabilities, including serious mental illness, developmental and intellectual disabilities, and physical disabilities or in recovery, and staff who work in such settings
- All older adults not included in Phase 1

PHASE 3

- Young adults
- Children
- Workers in industries and occupations important to the functioning of society and at increased risk of exposure not included in Phase 1 or 2

PHASE 4

- Everyone residing in the United States who did not receive the vaccine in previous phases

Equity is a crosscutting consideration

In each population group, vaccine access should be prioritized for geographic areas identified through CDC’s Social Vulnerability Index or another more specific index.



NATIONAL
ACADEMY
of MEDICINE

The National
Academies of

SCIENCES
ENGINEERING
MEDICINE

Vaccines end pandemics— you can help us find one.

ABOUT

- The Lundquist Institute at Harbor-UCLA in Torrance, CA has been chosen by the US National Institutes of Health to participate in a national scientific effort to rapidly develop vaccines and treatments for COVID-19.
- Our Phase 3 research study is the last step in testing an investigational vaccine. If the study is a success, the vaccine may then be licensed and used widely to prevent illness.
- All participants will be compensated, as we appreciate and value their time and commitment to the study.



GET INVOLVED

You can volunteer to participate in the study by signing up at our website, helpstopcovid.la or by calling (310) 222-3848



The vaccine does not include the virus that causes COVID-19, and therefore it can NOT result in a study volunteer getting the infection.

PRIORITY FOR ENROLLMENT



Our priority is to enroll adults without documented history of COVID-19 and at highest risk of getting COVID-19, including those who are in any of the below groups:



People who have multiple medical problems, such as diabetes, hypertension, heart disease, lung disease and obesity.

60+ Any person at least 60 years of age.

Questions?

The Lundquist Institute at Harbor-UCLA is open to answering any questions from our neighbors in Los Angeles. We can be reached at

(310) 222-3848 | www.helpstopcovid.la

Hablamos Español

HELP US TO STOP COVID... VOLUNTEER FOR A VACCINE TRIAL!!

[www.help
stopcovid.la](http://www.helpstopcovid.la)

Harbor GH Study
In Torrance

Vaccines end pandemics

Let's Find a **COVID-19** Vaccine Together – Participate in a UCLA clinical trial!

About the study


- UCLA has joined the National Institutes of Health to develop a vaccine for COVID-19.
- This vaccine does not include the virus causing COVID-19.
- Visit www.helpstopcovid.la or call **(310) 794-3788**. Hablamos Español.

Why you should get involved

- Participants are contributing to medical knowledge and making a difference for a global effort in COVID-19 prevention!
- Potential access to an investigational COVID vaccine before it becomes widely available (if shown to be safe and effective).
- All participants will be fairly compensated.


We are now recruiting adults:

- **18+ and without a known history of COVID-19.**
- **Especially those who are at highest risk of COVID-19:**

 **Essential workers.**

 **People of color.**

60+ **People who are age 60+.**

 **People who have multiple medical problems, such as diabetes, hypertension, heart disease, lung disease and obesity.**



UCLA Medical Center, Westwood, CA
10833 Le Conte Avenue, Room BE-144, Los Angeles, CA 90095
(310) 794-3788 | COVIDVACCINETRIAL@mednet.ucla.edu

WWW.HELPSTOPCOVID.LA

HELP US TO STOP COVID... VOLUNTEER FOR A VACCINE TRIAL!!

[www.help](http://www.helpstopcovid.la)

stopcovid.la

UCLA Study

(310) 794-3788

**BAMLANIVIMAB IS ON ITS
WAY!!!**



REMDESIVIR

ANTI-VIRAL MEDICATION

- ▶ Dosing for Patients
- ▶ 3.5-40 kg – 5 mg/kg IV over 30-120 min day 1; 2.5 mg/kg days 2-4; or through day 10 if mechanically ventilated
- ▶ 40 kg or above –adult dosing – 200 mg day 1 and 100 mg day 2-5; or through day 10 as needed



REMDESIVIR

ANTI-VIRAL MEDICATION

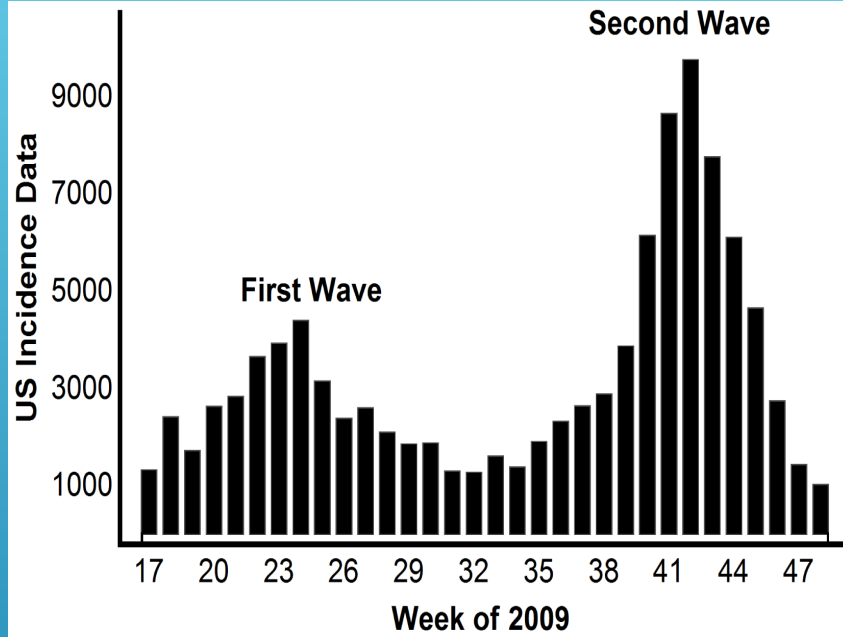
> **141,000 Vials**

in Los Angeles County alone

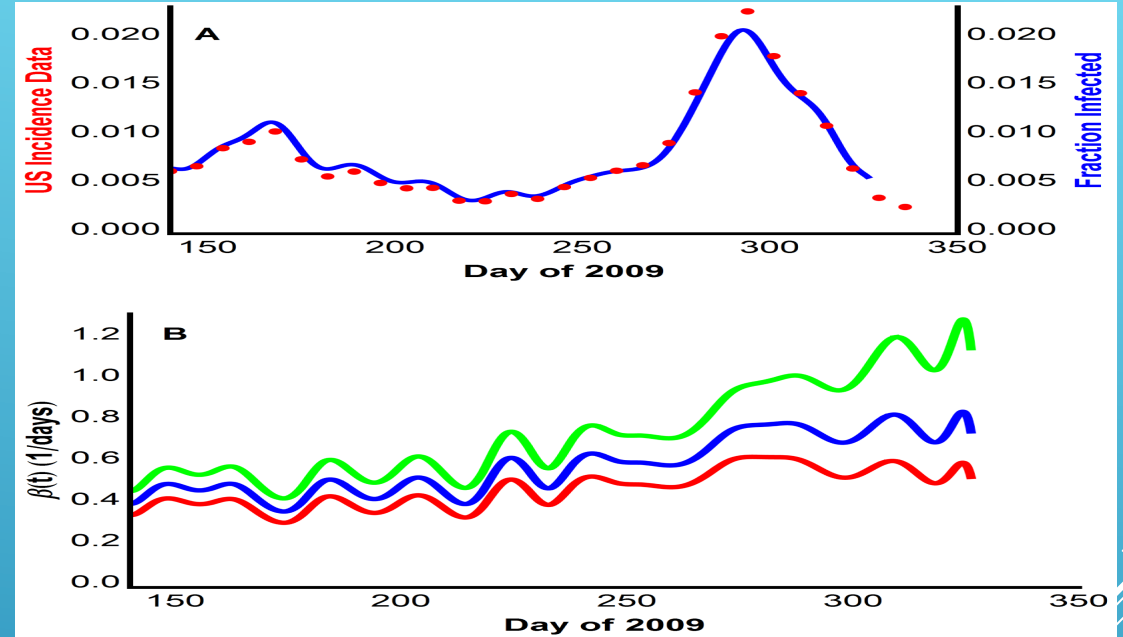
LOS ANGELES COUNTY EMS AGENCY	
Medical Supply/Equipment: Total Units Distributed	
February 1, 2020 through November 15, 2020	
Coveralls	7,498
Gowns	8,128,923
Shoe Covers	58,080
Goggles / Face Shields	477,246
Gloves	838,040
Hand Sanitizers	162,997
Masks (N95)	29,271,653
Masks (Surgical/Procedure)	12,120,650
Nasopharyngeal Flock Swabs	674,050
Oral Swabs	30,500
Viral Transport Media	741,314
BinaxNow COVID Tests	72,480
Ventilators	163
Ventilators on-hand (11/16/20)	60*
Mobile Medical System:	
ECG Monitors	10
Emergency Department Trailer	1
Support Trailer	1
Western Shelter	1
DLX Tent	1
Hospital Tent	3
Generator	1
Oxygen Concentrator	1
Hydroxychloroquine (Tablets)	200
Remdesivir (100mg vials)	141,169

* 170 Ventilators were returned to the Strategic National Stockpile on 6/9/20

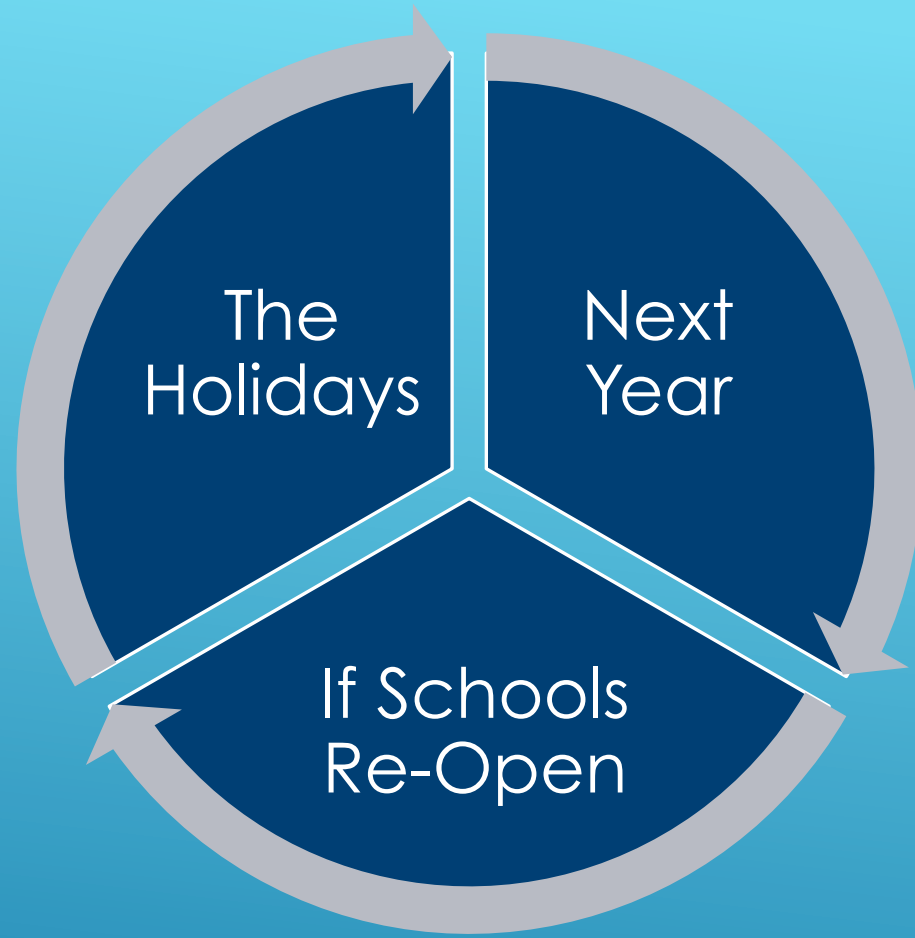
A Third Wave??



Or Successive Waves??



WHAT DOES THE FUTURE HOLD???



HOT SPOTS TO ANTICIPATE INCLUDE...

WHAT IS THE SOLUTION?

You have GOT to do Your part!!!

- Wear a Mask
- Socially Distant yourself
- Stay at home – During Thanksgiving!!
- Build Resilience in your life and your Household
- GET YOUR ANNUAL FLU SHOT !!!

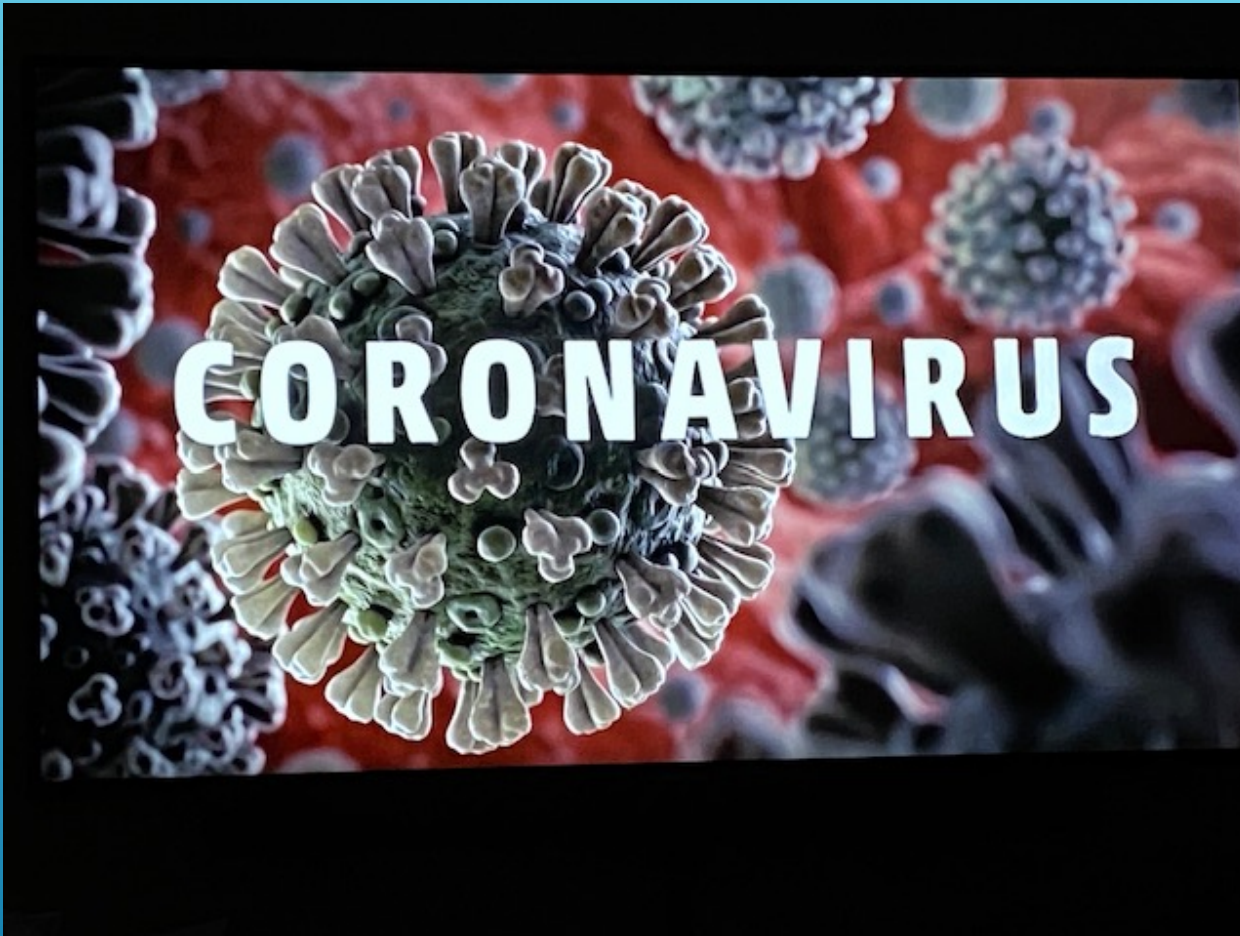
Good Nutrition

Vitamins D & C, ZINC

Rest / Sleep

Exercise

Drink Your Water!



QUESTIONS?



NEXT ACONA MEETING 2021

January 26 2021 (Tuesday)