CORONAVIRUS UPDATE SOUTHERN CALIFORNIA

**Extraordinary Assumptions: There are a lot of different data sources in this report not all of them match but aid to provide an overall picture of the current situation. COVID-19 Data Source Comparison - https://covid-19.splunkforgood.com/covid_19_datasource_comparison

Daily Situation Summary
Monday, April 19, 2021
As of 7:00 PM

ACT NOW! WEAR A MASK · STAY 6 FEET APART · AVOID CROWDS

COVID-19 by the Numbers

04/19/2021	Riverside	Imperial	Kern	Los Angeles*	Orange	San Bernardino	San Diego	San Luis Obispo	Santa Barbara	Ventura	California	United States	Global
Total Cases	297,215	27,562	107,859	1,228,997	252,963	294,779	274,960	20,917	33,896	80,230	3,375,946	31,444,706	141,019,355
New Cases	0	1	34	356	79	202	149	0	33	0	1,223	563,980	724,638
Total Cases Per Capita	12,042	14,381	11,632	11,981	7,835	13,294	8,158	7,501	7,427	9,408	8,413	9,523	1,818
New Cases Per Capita	0.00	0.52	3.67	3.47	2.45	9.11	4.42	0.00	7.23	0.00	3.05	170.80	9.34
Recovered	290,981	24,736	38,399	Not Reported	245,332	289,368	267,112	20,972	33,316	79,093	1,976,142	25,043,463	121,404,887
Total Deaths	4,525	717	1,322	23,623	4,896	4,314	3,674	256	444	1,000	60,661	563,980	3,013,490
New Deaths	0	0	0	0	5	13	0	0	0	0	21	694	10,954
Deaths Per Capita	183.34	374.12	142.57	230.30	151.65	194.55	109.01	91.80	97.29	117.27	151.16	170.80	38.85
% of State's Cases	8.80%	0.82%	3.19%	36.40%	7.49%	8.73%	8.14%	0.62%	1.00%	2.38%	10.74%	22.30%	
Currently in Hospitals	85	16	27	465	128	87	169	1	10	25	1,779		
Total Hospital Beds	3,206	236	1,093	18,964	5,822	3,520	6,427	460	603	1,125	64,876		
Currently in ICU	15	6	7	131	22	17	52	0	2	4	404		
ICU Beds Available	109	3	43	713	273	157	270	26	36	59	2,429		
Case Fatality Rate	1.52%	2.60%	1.23%	1.92%	1.94%	1.46%	1.34%	1.22%	1.31%	1.25%	1.80%	1.79%	2.14%
Population*	2,468,145	191,649	927,251	10,257,557	3,228,519	2,217,398	3,370,418	278,862	456,373	852,747	40,129,160	330,203,000	7,755,802,000
% of Population	6.15%	0.48%	2.31%	25.56%	8.05%	5.53%	8.40%	0.69%	1.14%	2.13%	12.15%	4.26%	

Sources: CDPH, WHO, CDC, Local County Data, LA Times

The date for which case statistics and hospital data were reported. Hospital COVID data are self-reported through a portal managed by the California Hospital Association and pulled at 2pm. COVID case statistics are reported by local health departments to CalREDIE and are pulled at 2pm. Hospital data and case statistics are integrated by the California Department of Technology and made available through the Open Data Portal the following morning. CA Open Data Portal is at least 24 Hours behind although a backlog of new case reports at the State level has ostensibly been cleared, some County dashboards still contain notes that indicate data are missing. *California Demographics from State Database Blueprint Data Chart 12-15-20 & census.gov . Presumptive active cases - A calculation (Total Cases - Recovered - Dead) (* LA County does not report recovery rates)

News
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CDC Cleaning update
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Weather
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News – The collection of news articles is related to COVID-19. The inclusion or order of articles is not intended to reflect their importance, nor is it intended to endorse the political viewpoints or affiliations included in news coverage.

CDC says fewer than 6,000 Americans have contracted Covid after being fully vaccinated
https://www.cnbc.com/2021/04/19/cdc-says-there-have-been-less-than-6000-breakthrough-covid-cases-among-fully-vaccinated-americans.html

Johnson & Johnson said blood clots have been reported with all Covid-19 vaccines. The author of the study they cited says they're wrong.
https://www.cnn.com/2021/04/19/health/johnson-vaccine-blood-clots-statement/index.html

Evidence of COVID-19 airborne transmission "overwhelming" say experts
https://newatlas.com/health-wellbeing/covid19-sars-cov-2-airborne-transmission-aerosol-evidence-study/

You may soon be getting a COVID 'stimulus check' from your health insurer
https://finance.yahoo.com/news/may-soon-getting-covid-stimulus-210000761.html

25% of Riverside County residents fully vaccinated against coronavirus
https://www.pe.com/2021/04/19/25-of-riverside-county-residents-fully-vaccinated-against-coronavirus/

COVID-19 Stats: COVID-19* and Influenza† Discharge Diagnoses as a Percentage of Emergency Department (ED) Visits,§ by Year — United States, June 2018–March 2021
https://www.cdc.gov/mmwr/volumes/70/wr/mm7015a7.htm?s_cid=mm7015a7_x

Laboratory Modeling of SARS-CoV-2 Exposure Reduction Through Physically Distanced Seating in Aircraft Cabins Using Bacteriophage Aerosol — November 2020
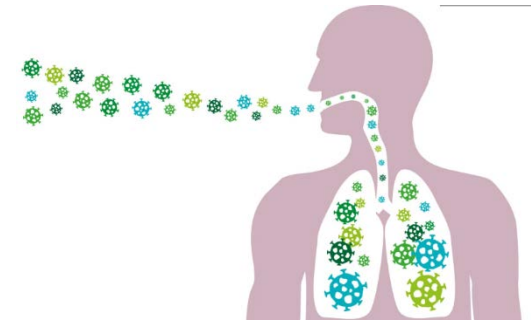https://www.cdc.gov/mmwr/volumes/70/wr/mm7016e1.htm?s_cid=mm7016e1_w

Emergency Department Visits for COVID-19 by Race and Ethnicity — 13 States, October–December 2020
https://www.cdc.gov/mmwr/volumes/70/wr/mm7015e3.htm

Disinfecting surfaces to prevent Covid often all for show, CDC advises
https://www.cnn.com/2021/04/19/health/cdc-covid-guidelines-cleaning/index.html

COVID-19 Situational Update

- **Global**
  - Cumulative Cases: **140, 886,773**
- **United States**
  - Cumulative Cases: 31,444,706
  - Average cases last 7 days: 67,442/day
  - Average previous 7 days: 68,584/day
  - **1.7% increase** over previous 7 day

- **Global**
  - Cumulative Deaths: **3,012,251**
- **United States**
  - Cumulative Deaths: 563,980
  - Average deaths last 7 days: 695/day
  - Average previous 7 days: 673/day
 - **3.3% increase** over previous 7 days

Source for U.S. information: https://covid.cdc.gov/covid-data-tracker/#datatracker-home
Source for global information: https://covid19.who.int/table

This information is current as of April 17, 2021.

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CDC Update on cleaning

Experimental data: virus survival on surfaces

- "Typical" indoor conditions: 20-25°C (68-77°F), relative humidity 30-65%

- Soft (e.g., cloth) surfaces: SARS-CoV-2 degrades within **minutes to hours**

- Hard (stainless steel, plastic, glass) surfaces: degrades within **hours to days**

- 99% die-off of infectious virus within 3 days

Stainless Steel
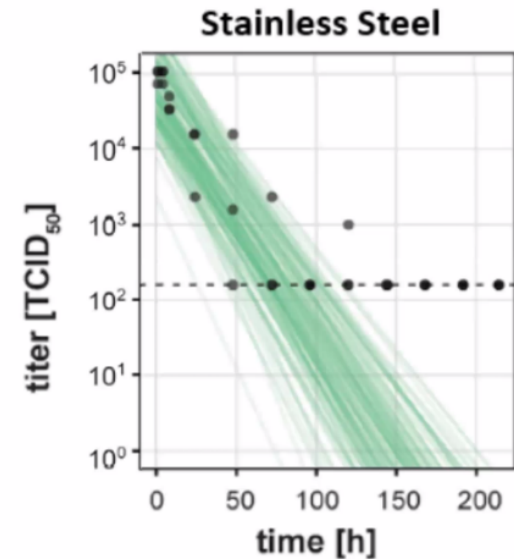
Ref: Kratzel et al. 2020
(DOI: 10.1086/433186)

**Links unrelated to study from DHS**

Estimated Surface Decay of SARS-CoV-2 (virus that causes COVID-19)

Estimated Airborne Decay of SARS-CoV-2 (virus that causes COVID-19)

Cleaning versus disinfection

- Clean with surface cleaning products containing soap or detergent
- Disinfect with product registered with EPA's List N when needed
- Both cleaning and disinfection can reduce risk of surface transmission
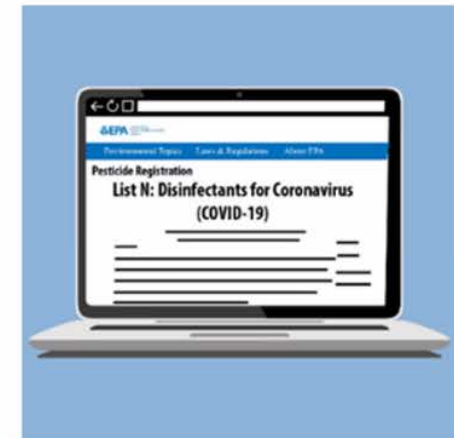
How soap and detergent products work on surfaces

- Soap molecules have two ends, one attracted to water and one attracted to dirt and germs

- Soap molecules create "micelle" spheres that surround dirt and germs

- The outside of the micelles is attracted to water and helps remove dirt and germs from surfaces when they are washed or wiped

- Cleaning can reduce virus levels on surfaces by 90–99%

- Soap molecules can also damage the virus
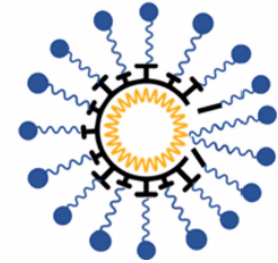
Soap micelle surrounding virus
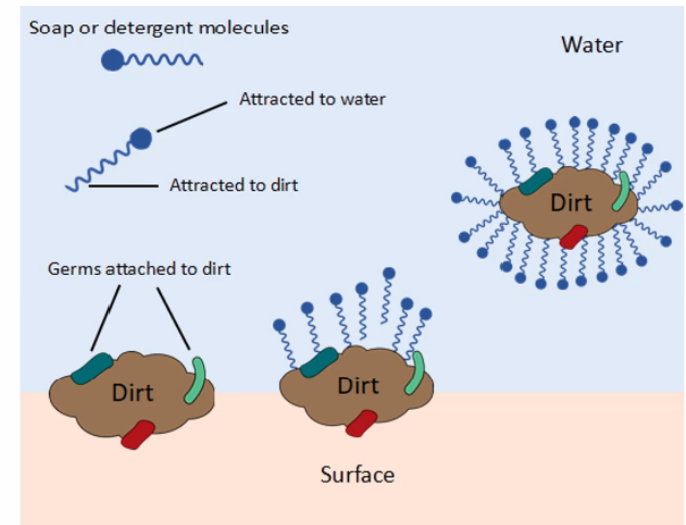
General cleaning recommendations for homes and other community settings

- NOT healthcare settings or facilities with specific regulations

In most situations, cleaning surfaces using soap or detergent (and not disinfecting) is enough

Mask wearing and practicing hand hygiene also reduce surface transmission

Cleaning and disinfecting at home

- Clean regularly (e.g., daily) and after you have visitors in your home

- Disinfection not necessary unless a sick person or someone positive for COVID-19 has been in the home within last 24 hours

- When and how to clean
  - Focus on high-touch surfaces (e.g., doorknobs, handles, light switches, tables)
  - Use products suitable for each surface, following product label instructions

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Cleaning and disinfecting your facility

- In most situations, **cleaning 1x/day is usually enough** to reduce any virus present

- Some situations might prompt more frequent cleaning or warrant choosing to disinfect

  - High transmission of COVID-19 in the community, low mask usage, infrequent hand hygiene, people in facility at increased risk for severe illness from COVID-19

- Focus your cleaning (or disinfecting, if needed) on high-touch surfaces

- Ensure cleaning staff are trained and have safety supplies

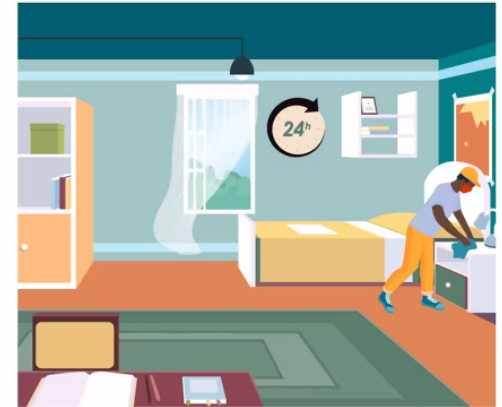- If choosing to disinfect, use EPA List N disinfectants and follow use guidance

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Steps for cleaning and disinfecting when an infected person has been present within last 24 hours

- Before cleaning and disinfecting
  - Restrict access to areas used by person who was sick
  - Wait as long as possible to enter room (at least several hours)
- While cleaning and disinfecting
  - Ventilate the room (open doors & windows, use fans or central air)
  - Wear a face mask and gloves
  - If vacuuming, use vacuum equipped with HEPA filter

Cleaning and disinfecting in community settings with a COVID-19 case

If less than 24 hours have passed:		If more than 24 hours have passed:		If more than 3 days have passed:
Disinfect surfaces after cleaning	→	Clean surfaces, disinfection not need	→	No additional cleaning or disinfection is needed

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Conclusions

- Evidence indicates that risk of surface transmission is low in most situations
  - Mask wearing reduces surface contamination from respiratory droplets
  - Hand hygiene and cleaning and disinfection are effective barriers
- SARS-CoV-2 dies rapidly (within hours) on soft, porous surfaces and less rapidly on hard indoor surfaces (99% die-off within 3 days)
- Cleaning alone can be effective for removing virus from surfaces
- EPA List N disinfectants effective for killing the virus
  - Disinfection warranted within first 24 hours after surface contamination when infectious virus more likely to be present

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Weather

National Weather Service
San Diego, California

Weather Threats Outlook
1 PM PDT Monday, April 19, 2021

County	Zone	Mon 4/19	Tue 4/20	Wed 4/21	Thu 4/22	Fri 4/23	Sat 4/24	Sun 4/25
San Diego	Beach/Marine	Breezy Outer Waters	PM Showers	Showers	Drizzle AM	None	None	None
	Coast	Warm	PM Showers	Showers	Drizzle AM	None	None	None
	Valleys	Warm	PM Showers / Breezy	Showers	Drizzle AM	None	None	None
	Mountains	None	Windy	Windy	Breezy / AM Showers	None	None	None
	Deserts	Warm / Breezy	Warm / Windy	Windy	Breezy	None	Warm	Warm
Orange	Beach	None	None	Showers	Drizzle AM	None	None	None
	Coast	Warm	None	Showers	Drizzle AM	None	None	None
	Inland	Warm	Breezy / PM Showers	Showers	Drizzle AM	None	None	None
	Mountains	None	Breezy / PM Showers	Showers	AM Showers	None	None	None
Riverside	Inland Empire	Warm	Breezy / PM Showers	Showers	Drizzle AM	None	None	None
	Mountains	None	Windy	Windy / Showers	AM Showers / Breezy	None	None	None
	Desert	Warm	Warm / Windy	Breezy / Showers	Breezy	None	Warm	Warm
San Bernardino	Inland Empire	Warm	Breezy / PM Showers	Showers	Drizzle AM	None	None	None
	Mountains	None	Windy	Breezy	Showers / Breezy	None	None	None
	Desert	Warm	Warm / Windy	Breezy / Showers	Breezy / Showers	None	Warm	Warm

Impact Threat Levels: None | Low | Medium | High | Extreme

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