

Stay Calm Stay Prepared Stay Informed CALTCM.org

COVID-19 Webinar Series

February 14, 2022

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Webinar Planning Committee

Patricia Latham Bach, PsyD, RN
Heather D'Adamo, MD, CMD
Janice Hoffman-Simen, Pharm.D., EdD, APh, BCGP, FASCP
Ashkan Javaheri, MD
Albert Lam, MD
Dominic Lim, MPH
Tina Meyer, DHSc, MS, PA-C
Karl Steinberg, MD, CMD, HMDC
Michael Wasserman, MD, CMD

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Upcoming Webinars & Events

COVID Webinar: March 7

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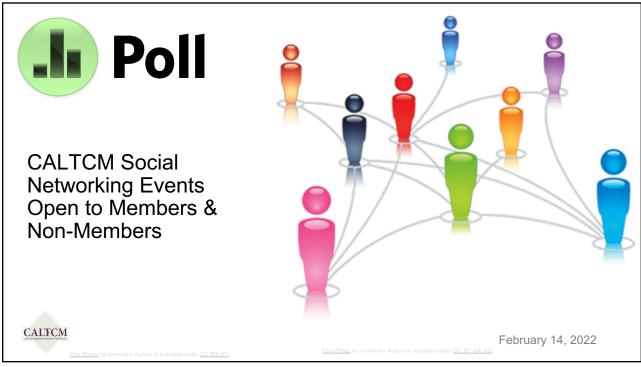
Committee Work

- If you are interested in joining one of CALTCM's many committees, please email info@caltcm.org.
 - Clinical Practice
 - Education
 - Marketing & Membership
 - Public Policy
 - · Wave Committee
 - CALTCM Wellness
 - Currently planning future activities and would like your input via the following poll.

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Webinar Faculty

Raymond Chinn, MD, FIDSA, FSHEA Epidemiology & Immunization Services Branch County of San Diego Health & Human Services Agency San Diego, CA

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Webinar Faculty

Dolly Greene RN, BSN, CIC
Infection Prevention & Control Resources
Expert Stewardship
Los Angeles, CA

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Webinar Faculty

Jay Luxenberg, MD
Chief Medical Officer, On Lok
CALTCM, Wave Editor-in-Chief
San Francisco, CA

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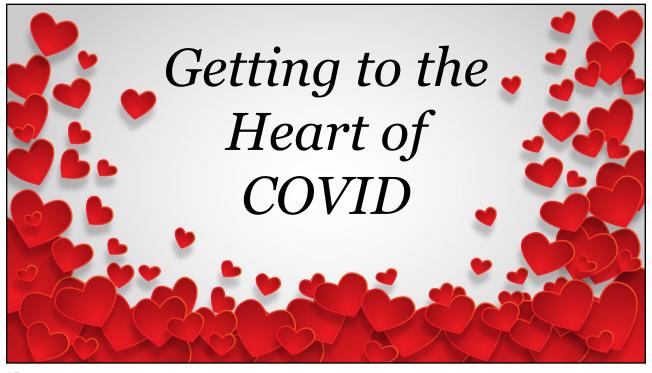
Webinar Faculty

Heather D'Adamo, MD

Staff Attending Physician, Community Living Center, VA Greater Los Angeles; Assistant Professor, UCLA Geriatrics; Director of SNF and LTC Curriculum of the VA UCLA Geriatrics Fellowship

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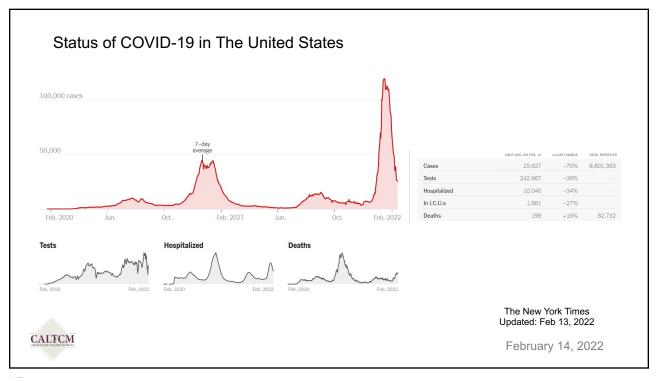


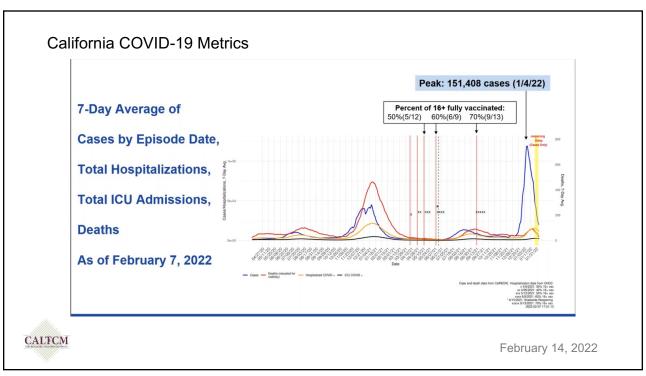
Topics for Discussion

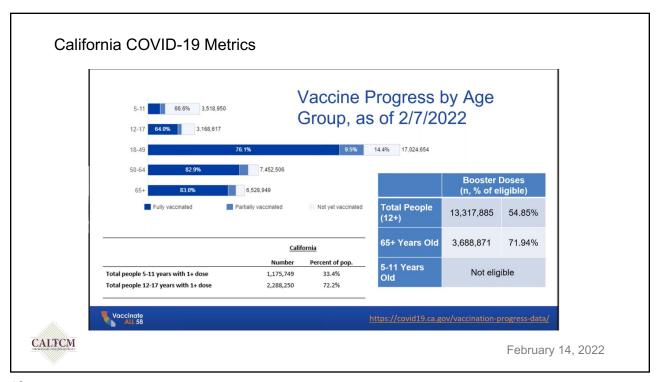
- · Review status of the pandemic
- Characterize the Omicron sublineage variant, the BA.2: an emerging threat?
- Discuss the benefits of COVID-19 vaccine boosters in those who are booster eligible
- Update the therapeutic options for management of COVID-19 in long-term care facilities

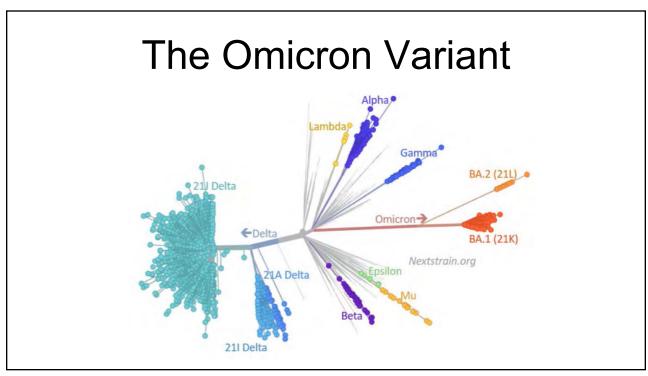


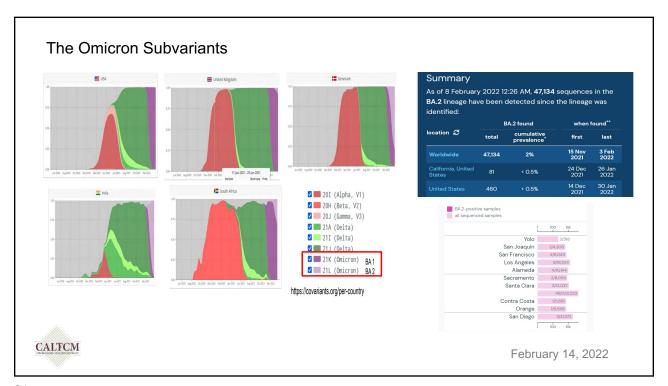
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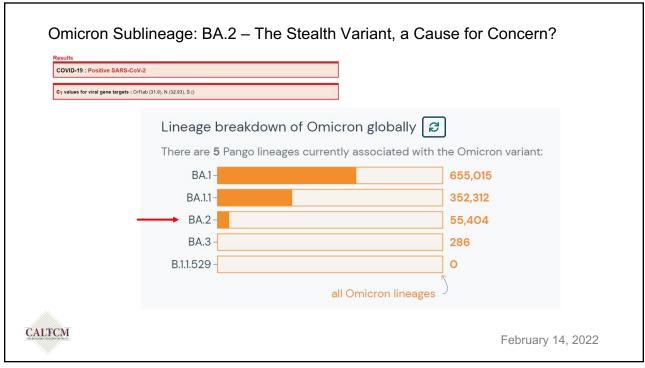












The Danish Study: A Comparison of Omicron Subvariants BA.1 and BA.2

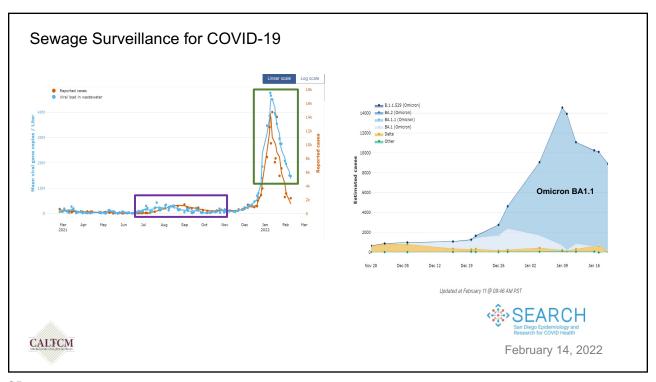
- Household study in Denmark comparing two Omicron subvariants: BA.1 and BA.2 from late December 2021 to early January 2022
- BA.2 has rapidly replaced BA.1
- The secondary attack rate (SAR) was estimated as 29% and 39% in households infected with Omicron BA.1 and BA.2, respectively
- BA.2 was associated with an increased susceptibility of infection for unvaccinated individuals (Odds Ratio (OR) 2.19; 95%-Cl 1.58-3.04), fully vaccinated individuals (OR 2.45; 95%-Cl 1.77-3.40) and booster-vaccinated individuals (OR 2.99; 95%-Cl 2.11-21 4.24), compared to BA.1.
- Increased transmissibility from unvaccinated primary cases in BA.2 households when compared to BA.1 households, with an OR of 2.62 (95%-CI 1.96-3.52). The pattern of increased transmissibility in BA.2 households was not observed for fully vaccinated and booster-vaccinated primary cases, where the OR of transmission was below 1 for BA.2 compared to BA.1.

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Lyngse FP, et al. https://doi/org/10.1101/2022.01.28.22270044doi

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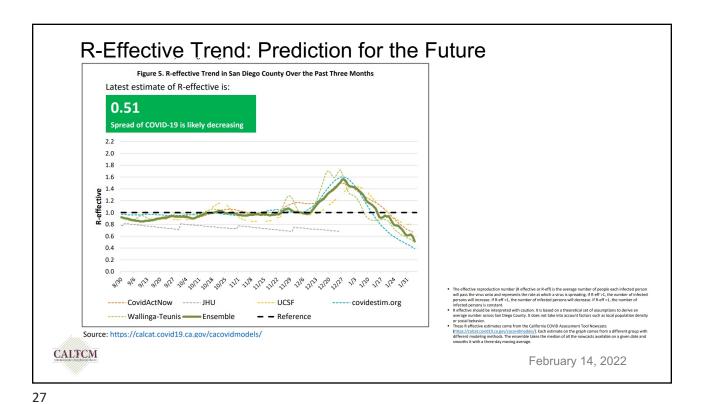
Sewage Surveillance for COVID-19

Sewer ID	County	Population	Date Start	Date End	% change 15d days	Detect Ct value < 40
	Imperial	40,000	1/27/2022	02/10/2022	-91.0%	100%
	San Diego	2,200000	1/27/2022	02/10/2022	-98.0%	100%
	Los Angeles	3,500,000	1/27/2022	02/10/2022	-9.0%	100%
	Humboldt	45,000	1/27/2022	02/10/2022	-52.0%	100%
	Orange	1,800,000	1/27/2022	02/10/2022	1259.0%	100%
	San Francisco	750,000	1/27/2022	02/10/2022	-84.0%	100%
	San Mateo	199,000	1/27/2022	02/10/2022	-11.0%	100%
	Santa Clara	110,338	1/27/2022	02/10/2022	-12.0%	100%

https://data.cdc.gov/Public-Health-Surveillance/NWSS-Public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastewater-Data/2ew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-ywp6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-yw6/data-public-SARS-CoV-2-Wastew6-y

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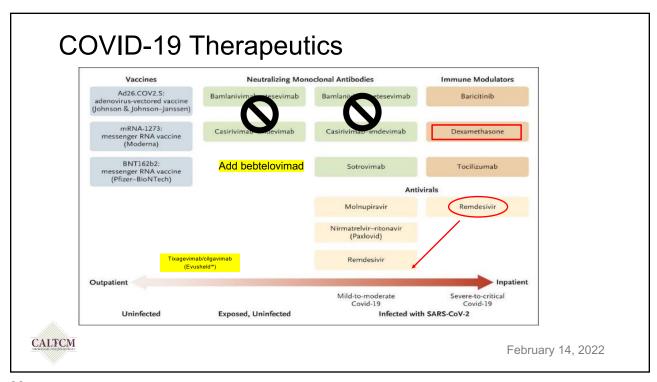
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Treatment and Prophylaxis

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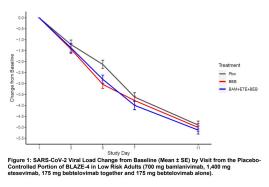
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Advanced Therapeutics for Omicron Rx Risk When Route **Duration Availability** Reduction Requires (+) Test Within 10 days of Sotrovimab 79% IV Single Infusion Pharmacies and local health departments symptom onset Bebtelovimab Within 10 days of IV over 30 Single Infusion Pharmacies and local symptom onset health departments secs Paxlovid 89% Within 5 days of PO 5 days **COVID-19 Therapeutics** (nirmatrelvir/ritonavir) symptom onset Locator (arcgis.com) Remdesivir 87% Within 7 days of IV 3 days Order through symptom onset AmeriSource Bergen Within 5 days of Molnupiravir 30% PO 5 days **COVID-19 Therapeutics** symptom onset Locator (arcgis.com) Risk Route **Duration Availability** Pre-exposure When Prophylaxis Reduction Evusheld 77% Q 6 mo; for the 2 Consecutive Healthcare systems; (tixagevimab/cilgavimab) Injections local health department immunocompromised CALTCM February 14, 2022 Slide adapted from Albert Lam, MD

Bebtelovimab: A New Monoclonal Antibody

- No change in pseudotyped virus-like particle neutralization data for Omicron BA.1, BA.1.1, BA.2
- Clinical studies were conducted BEFORE the Omicron variant
- Efficacy shown in non-high-risk individuals
- Efficacy analyses for high-risk individuals are limited by lack of a concurrent placebo control arm



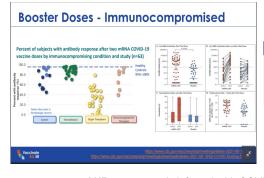
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Evusheld™ (tixagevimab/cilgavimab)for Pre-exposure Prophylaxis

- Limited Supply: 2 IM injections once, then q 6 months
- High risk patients who are 12 years or older, weighing at least 40kg and who would not have a robust response to immunization



Tier Characteristics

1 • Immunocompromised, not expected to mount an adequate immune response to COVID-19 vaccine or SARS-CoV-2 infection due to their underlying conditions, regardless of vaccine status; or

• Unvaccinated individuals at the highest risk of severe disease (anyone aged ≥75 years or anyone aged ≥65 years with additional risk factors).

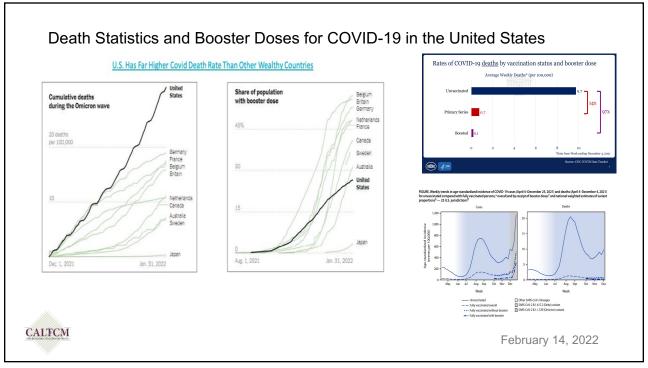
AND, not currently infected with COVID-19 or exposed to COVID-19

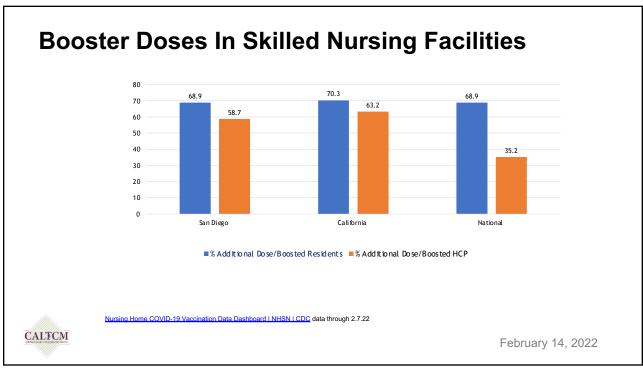
 Slight increased cardiac complications in those who preceding cardiac disease

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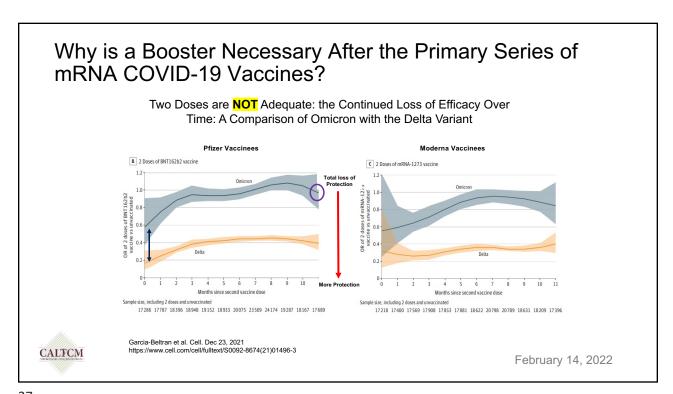


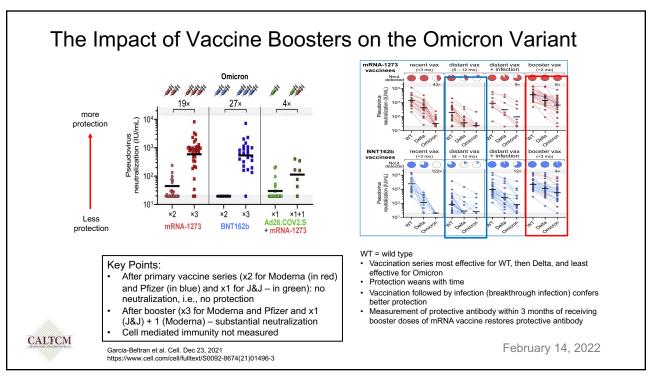
Summary: Booster Hesitancy

- Being "fully vaccinated" confers minimal or no protection against the Omicron variant; however,
- A booster dose has been shown to restore neutralization of pseudovirus (a correlate of protection)
- Vaccination reduces the risk of the long-hauler syndrome, even after 1 dose in those with COVID-19 infection. The lowest risk of long haul COVID-19 was among those with breakthrough infections (vaccinated, then infected)
- Despite the absence of long haul COVID-19 symptoms, a "brain fog" (reduced attention duration and ability to retain) develops but dissipates over 6-9 months
- Parental vaccination/booster (cocoon effect) is protective of children from COVID-19

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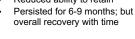
Post COVID-19 Impact on Memory and Attention Span

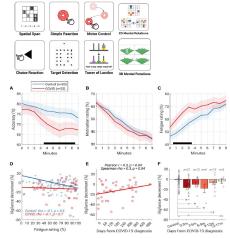
155 UK Participants

- Recruited for brain games
- Did not disclose intent
- Did ask about recent COVID
- None had been hospitalized; none had perceived symptoms of long haul COVID
- Matched on age

Results:

- · Cognitive abilities (working memory, executive function, and planning) were normal; however, there were:
 - Reduced attention duration
 - Reduced ability to retain





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Zhao S et al. Brain Communications. Dec 2021 https://doi.org/10.1093/braincomms/fcab295

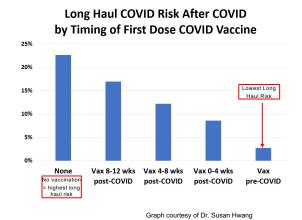
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"I've Already Had COVID-19, Why Do I Still Need the Vaccine? What about Natural Immunity

Prevention of Long Haul Covid-19 After COVID-19 Infection with Vaccination

Arcadia Research Data Set

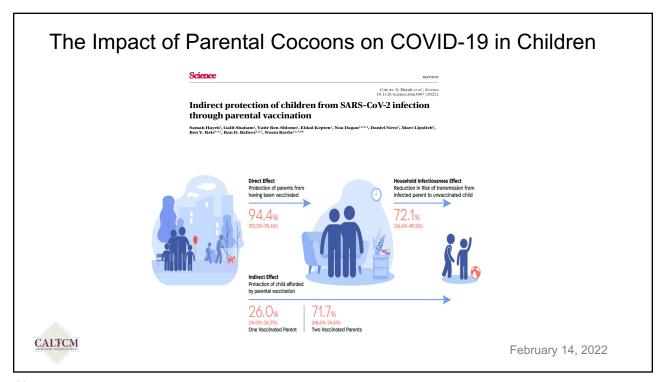
- A review of 25,804,278 persons
- ~ 4% COVID = 1,065,626
- Study Period: Feb 2020 May 2021
- ~ 23% (240,64) of persons infected with COVID-19 developed long haul COVID-19 – symptoms lasting beyond 12-20 weeks.
- 91.6% unvaccinated
- Best protection: vaccinated then subsequent breakthrough infection
- Even after 1 dose of vaccine up to 12 weeks post-COVID was protective



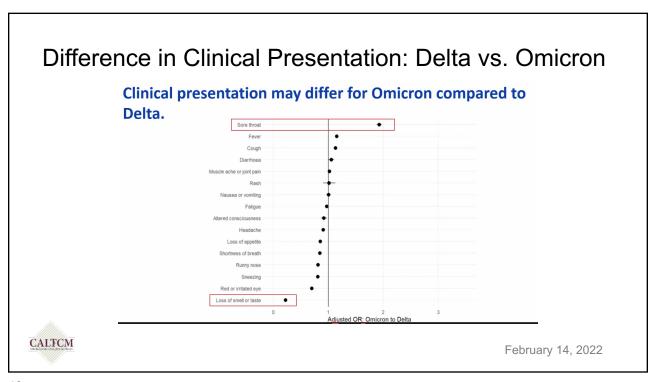
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Simon MA et al. medRxiv preprint, Nov 2021 https://doi.org/10.1101/2021.11.17.21263608

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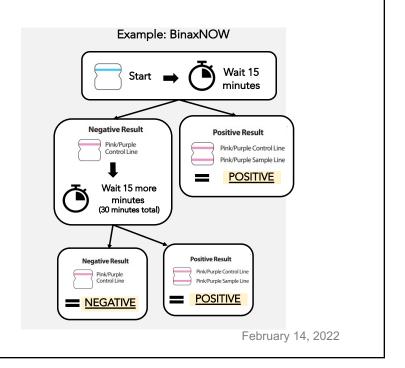






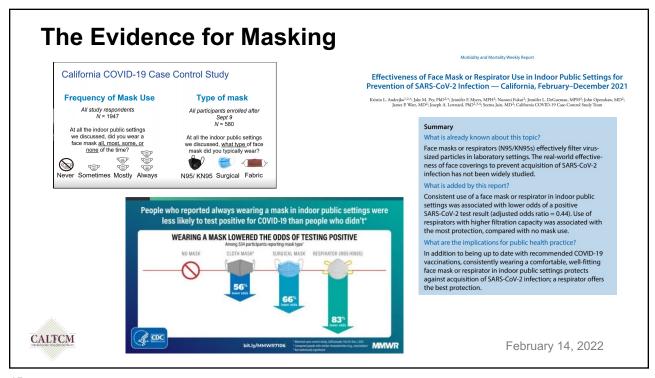
Rapid Antigen Tests –WAIT!

- When using a rapid antigen test kit, wait the full window to read the result before determining it is negative.
 - For example, the BinaxNOW test kits instruct users to read the results after 15-30 minutes, so you should wait the full 30 minutes before determining it is negative.
- If, after the minimum amount of time, your test reads positive, you do not need to wait any longer.



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Timing of Vaccination After Monoclonal Antibodies

- PREVIOUS
 - Defer vaccination for 90 days post mAb treatment
- New
 - · No deferral period
 - For preexposure prophylaxis: Evusheld™: administer 2 weeks
 AFTER vaccination



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Summary

- The incidence of COVID-19 appears to be decreasing
- The Omicron BA.2 sublineage has emerged; it has increased susceptibility, but NOT transmissibility in those who are vaccinated/boosted.
- A booster dose has been shown to restore neutralization of pseudovirus (a correlate of protection)
- Vaccination reduces the risk of the long-hauler syndrome, even after 1 dose in those with COVID-19 infection.
- Despite the absence of long haul COVID-19 symptoms, a "brain fog" (reduced attention duration and ability to retain) develops but dissipates over 6-9 months
- Parental vaccination/booster (cocoon effect) is protective of children from COVID-19
- Therapeutic options are available, as well as pre-exposure prophylaxis for the highly venerable population

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