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CALTCM COVID-19 Webinar Series

November 8, 2021

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Webinar Faculty

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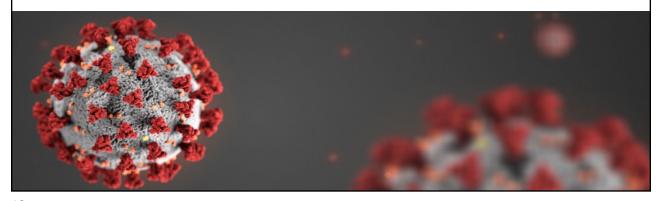
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CALTCM COVID UPDATES

Namrita Gogia, MD 11/8/21





Vaccines Work

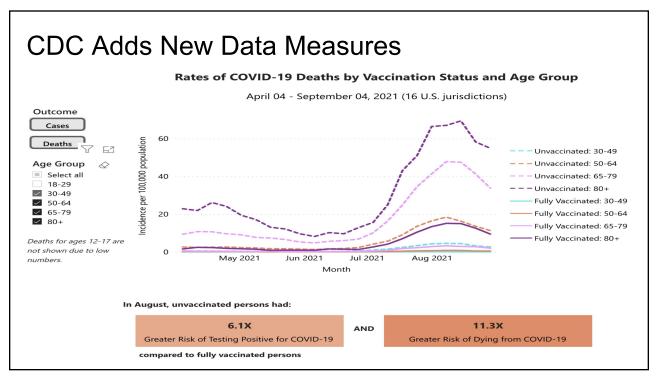
People who are fully vaccinated are roughly 10 times less likely to be hospitalized and 11 times less likely to die from Covid-19, according to a recent study from the C.D.C.

Among the more than 187 million Americans who have been fully vaccinated, there have been 7,178 deaths, according to the C.D.C. Eighty-five percent of those deaths have been in people 65 or older. -NYT

Morbidity and Mortality Weekly Report

FIGURE 2. Weekly trends in age-standardized incidence* of COVID-19 cases, hospitalizations, † and deaths, § by vaccination status ¶ — 13 U.S. jurisdictions, ** April 4–July 17, 2021





Three studies: Risk of infection increases after 6 months, but protection against severe disease persists

Levin and colleagues performed monthly assessments of anti-spike IgG and SARS-CoV-2 neutralizing antibodies in 3808 immunized Israeli healthcare workers. They found that IgG antibodies peaked 4–30 days after the second dose, then consistently declined during the 6-month study period. Neutralizing antibody titers also fell, but the rate of decline was steeper from 1–3 months than 3–6 months. Decreases in both IgG and neutralizing antibodies were greater with older age, male sex, ≥2 comorbidities, and autoimmune disease or immunosuppression.

Chemaitelly and colleagues used a test-negative, case-control study design to evaluate vaccine effectiveness among 947,035 BNT162b2 recipients in Qatar. Effectiveness against SARS-CoV-2 infection peaked at 77% within the first month after complete vaccination, then progressively declined to 20% during months 5–7. In contrast, effectiveness against COVID-19 hospitalization and death attained at least 96% within the first month and did not drop throughout 6 months.

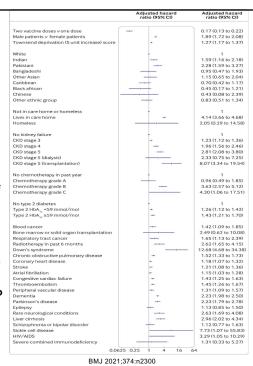
Tartof and colleagues assessed BNT162b2 effectiveness in 3,436,957 individuals in the Kaiser Permanente Southern California healthcare system. Throughout the 6-month study, 184,081 SARS-CoV-2 infections and 12,130 COVID-19 hospitalizations occurred. Effectiveness against infection fell from 88% during the first month to 47% after the fifth month. Effectiveness against hospitalization was 87% at 1 month and 88% at 5 months. Protection against infection with the Delta variant was similar to that against other variants within the first month (93% and 97%, respectively), then declined over time compared with other variants (53% and 67%; comparison not significant).

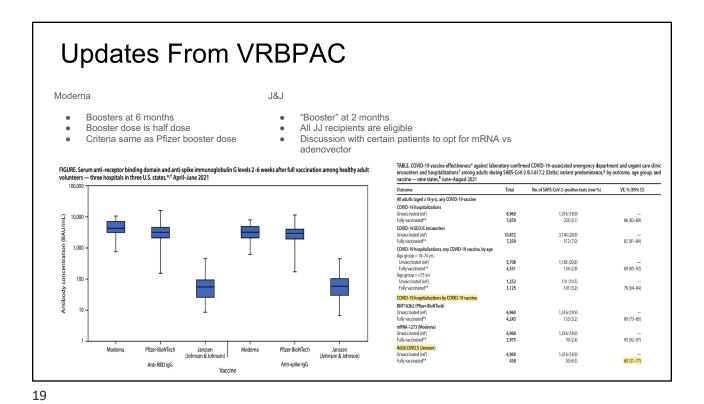
Richard T. Ellison III, MD, reviewing Levin EG et al. N Engl J Med 2021 Oct 6 Chemaitelly H et al. N Engl J Med 2021 Oct 6 Tartof SY et al. Lancet 2021 Oct 4

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Boosters: Why and Who?

- The benefits of a COVID-19 booster dose may include
 - reduced risk of SARS-CoV-2 infection
 - reduced risk for severe COVID-19 and morbidity from the disease
 - reduce transmission of the virus to other people
- Considerations:
 - Risk for severe infection related to underlying conditions. A
 person's risk of severe COVID varies by type, number, and level of
 control of specific medical conditions as well as other yet to be
 defined variables. Pregnant people may receive a COVID-19
 vaccine booster.
 - Potential impact of SARS-CoV-2 infection. SARS-CoV-2 infections that are not severe may still lead to morbidity (e.g., post-COVID-19 symptoms). A person's individual circumstances should also be considered; these may include living with/caring for a person who is medically frail or immunocompromised.
 - Risk of exposure to SARS-CoV-2 and Risk of developing infection:
 Occupation? Living situation? When was primary series given?
 Serologic testing is not recommended as part of R/B analysis.



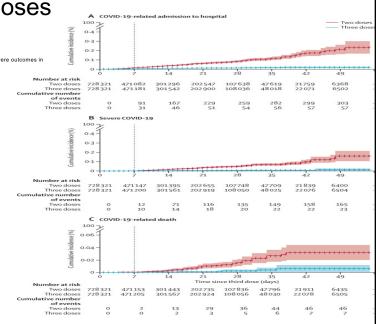


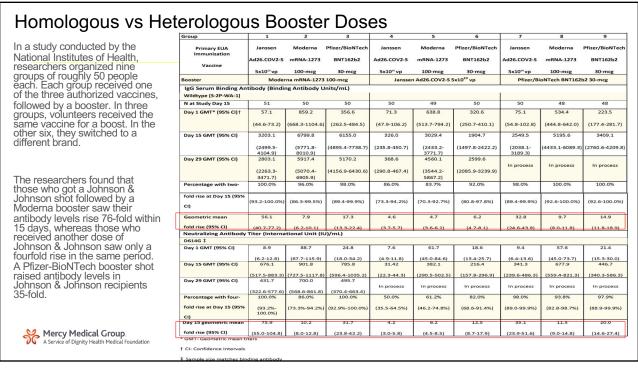
Two Doses vs Three Doses (Pfizer)

Effectiveness of a third dose of the BNT162b2 mRNA COVID-19 vaccine for preventing severe outcomes in israel: an observational study, Lancet, Published:October 29, 2021

1,158,269 individuals were eligible to be included in the third dose group. Following matching, the third dose and control groups each included 728,321 individuals. Participants had a median age of 52 years and 51% were female. The median followup time was 13 days in both groups.

Vaccine effectiveness evaluated at least 7 days after receipt of the third dose, compared with receiving only two doses at least 5 months ago, was estimated to be 93% (231 events for two doses vs 29 events for three doses) for admission to hospital, 92% (157 vs 17 events) for severe disease, and 81% (44 vs 7 events) for COVID-19-related death.





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Vaccinating Children

- 18+ yo Pfizer, JJ, Moderna
- 12-16 yo Pfizer
- 5-11 yo Pfizer



Benefits of Vaccinating Young Children

- Severe illness has been uncommon in 6 million children positive for COVID
- 5217 cases of multisystem inflammatory syndrome in children (MIS-C) and 46 MIS-C deaths have been reported as of 10/4
- The risk of severe illness and death is greater for children older than 10 years. Although the
 percentage of severe illness among pediatric cases is small, as infections increase, so too
 will the number of children who become seriously ill.
- At least 1.9 million children aged 5 to 11 years have been infected. 8300 of them have been hospitalized, a third of whom needed intensive care.
- Nearly 100 children aged 5 to 11 years have died, making COVID-19 among the leading causes of death in this age group.
- Hospitalization rates among children aged 5 to 11 years are 3 times higher for Black, Hispanic, or Native American children than for White children, with rates of 45 to 50 per 100 000 children vs 15 per 100 000 children, respectively.
- Data from adolescents suggest that Pfizer vaccinations for children 5 to 11 years old will likely prevent most hospitalizations and deaths
- Vaccinating children 5 to 11 years of age may lower transmission in families, schools, and communities.

Moss WJ, Gostin LO, Nuzzo JB. Pediatric COVID-19 Vaccines: What Parents, Practitioners, and Policy Makers Need to Know. JAMA. Published online November 05, 2021. doi:10.1001/jama.2021.20734

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FDA Briefing Summary: Pfizer Vaccine 5-11 yo

- The Pfizer's study in kids (5-11yo) (about 3000 vaccinated and 1500 placebo), but well done.
- They looked at 10mcg dose of Pfizer (adult dose is 30mcg) given twice, 21 days apart.
- The first cohort (~1500 vaccinated, 750 placebo) was followed for a longer duration (2 months after second dose), the second cohort was added later when the FDA asked Pfizer to expand their study population so the median duration of follow up is less (2 weeks after second dose).
- There was no evidence of myocarditis in the vaccinated group. The antibodies that the 5-11 year olds made were robust and comparable to the average titers made by vaccinated 16-25 year olds.
- There were 3 cases of Covid in the vaccinated group and 16 cases in the placebo group. None of the cases were severe.
- We don't know what strains the Covid cases were but suspect they were delta since they occurred in the July-August timeframe.
- The most common adverse reactions were pain at the injection site, fatigue, headache and occurred at a median time of about 2 days after vaccination

Oral Therapeutics for COVID-19

Molnupiravir

- No peer rev data. Just statement from company re: phase III interim analysis
 - Participants:symptom onset w/in 5 days.
 Participants had at least one risk factor associated with poor disease outcome.
 - Molnupiravir reduced the risk of hospitalization or death by approximately 50%
 - 7.3% of patients who received molnupiravir were either hospitalized or died through day 29 following randomization (28/385) vs 14.1% of placebo-treated patients (53/377)
 - No deaths in molnupiravir group (through day 29) vs. 8 deaths in patients who received placebo
- Study stopped early due to positive results (Intended size was 1550 participants)
- Consistent efficacy against all variants

Paxlovid

- The Pfizer medicine, known by the code name PF-07321332 or simply '332, reduced hospitalization by 89% compared to placebo when given with the HIV drug ritonavir within three days of symptom onset
- The medicine also reduced the chance that patients would die. There were 7 deaths out of 385 patients in the placebo group, and none in the 389-patient group that received the medicines. Pfizer plans to market '332 under the brand name Paxlovid

Courtesy of Eric Topol		
Efficacy in high-risk patients, reduction of hospitalizations/deaths at 28 days	50% 14.1 vs 7.3%	89% 8.2 vs 0.7%
Deaths in placebo vs drug	8 vs 0	7 vs 0
Duration of therapy (twice daily)	5 days	5 days
Given with co-drug to promote half- life	No	Yes, ritonavir
Repurposed	Yes, Equine encephalitis Planned to test for RSV, influenza, redirected	No, Covid specific New chemical entity adapted from an anti-SARS molecule
Mechanism	Nucleoside analog; Induces mutations	Inhibits Mpro, not mutagenic
Active against all variants	Yes	Yes
Cost	~\$700	~\$700



- We are the medical voice for long term care in California
- · Public policy committee developed this White Paper
 - Made recommendations based on evidencebased literature
 - Not our intention to debate the financial impact of our recommendations
 - · Current huge workforce shortage issues
 - · Where will staff come from?
- · We stand for quality care in nursing homes
- We understand there are many issues that have put NH care in a precarious state
- Issues MUST be debated
- · Does not change the existing evidence
- · Our White Paper presents the evidence

California's
Nursing
Home
Residents
Have Faced
an Ongoing
Humanitarian
Crisis

> 60,000 resident COVID-19 infections

10,000+ deaths (conservatively)

< 1% of the population

Wildly disproportionate percent of California deaths from COVID-19

NH residents are "human beings who deserve to be treated with respect and dignity."



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Overview

- Pre-existing quality issues
- · Inequities and disparities
- Positive relationship between the quality of nursing home care and staffing
 - · certified nursing assistants (CNAs)
 - · registered nurses (RNs)
 - · total nurse staffing
- · Low nurse staffing levels
 - · associated with poor quality of care
 - · abuse and neglect
- · Disparities
 - · Racial and ethnic minorities reside in nursing homes with
 - · limited financial resources
 - · low staffing levels
 - · high number of deficiencies
 - 9% of White nursing home residents live in "lower-tier" homes, compared to an estimated 40% of Black nursing home residents

"Now is not the time for additional "studies" to assess the importance of appropriate staffing levels. The combination of inadequate staffing and disparities can only lead to more tragic situations and outcomes, such as those recently seen during the latest hurricane in Louisiana."



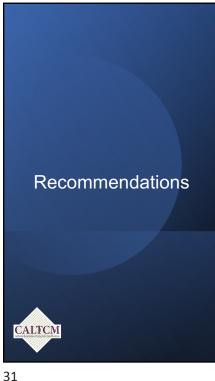
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The Pandemic
Has Profoundly
Confirmed and
Reinforced the
Evidence-Based
Literature on the
Impact of
Inadequate
Staffing



- NHs with RN staffing < 0.75 RN hours per resident day (hprd) were 2x likely to have residents with COVID infections.
- Higher total nurse staffing hours reduced NH residents' COVID infection rates by half
- Facilities in California with higher RN staffing reduced COVID death rates by half.
- Higher RN staffing levels (other states) a/w fewer COVID-19 outbreaks and deaths.
- NHs <u>w/ COVID-19</u> outbreaks among staff or residents were more likely to report staff shortages.
- NHs with higher RN staffing levels before the pandemic and those with higher overall quality ratings were less likely to report nursing staff shortages.



- · Nurse staffing minimums
 - Total of 4.1 hprd
 - RN 0.75 hprd
 - LVN 0.55 hprd
 - CNA 2.8 hprd
- · Wages comparable to those of hospital wages in the geographical area.
- · CNA wages comparable to the wages for other entrylevel positions within the geographical area.
- Wages at least \$3/hour above the minimum wage for competing entry-level positions
- Add CNA turnover as a reportable QASP metric in California.
- · Ensure that nursing homes adjust staffing levels to meet the acuity needs of residents.



"The Director of Nursing and Director of Staff Development, in collaboration with an engaged, knowledgeable, and competent medical director, should determine appropriate acuity-based staffing levels in nursing homes. The evidence-based literature supports minimum staffing levels with limited exceptions, even in predominantly custodial nursing homes, due to the medical complexity of today's residents. The exceptions should not drive staffing policy, nor should the challenging workforce shortage issues that we are facing. Policy should be based first and foremost on providing the quality care our residents deserve. Questions about the financing of appropriate staffing levels must be addressed in the context of full transparency. Workforce shortages cannot be a blanket excuse for allowing poor quality of care. The COVID-19 pandemic has tragically demonstrated this fact."

