



COVID-19 Digest Issue 60

June 30, 2021

CLINICAL PEARLS

- **While originally thought of as potential sites for transmission, a large amount of observation and data have demonstrated that educational settings are not high-risk environments for COVID-19 spread.** According to a recent [BMC Infectious Diseases](#) article, researchers from Luxemburg observed a total of 390 and 34 confirmed COVID-19 cases among 90,150 school-age children and 11,667 teachers during the summer wave when schools were open. While there were some cases of school-associated clusters, they were largely minimal. According to the authors, “[p]recautionary measures including physical distancing as well as easy access to testing, systematic contact tracing appears to have been successful in mitigating transmission within educational settings.
- **Tweaking the protein structures used for vaccines can make them even more efficacious and protective against multiple variants of SARS-CoV-2.** Using a mouse model, researchers publishing in [Journal of Virology](#) report that a protein-based vaccine using the spike locked into a closed formation induced strong protective antibodies against SARS-CoV-2 and variants of concern B.1.248 (Brazil) and B.1.351 (South Africa). These data demonstrate that this form of the spike protein may be a good option for future vaccine strategies.

PUBLIC HEALTH UPDATES

- American Academy of Pediatrics [Statement Following CDC ACIP Meeting from Nation’s Leading Doctors, Nurses and Public Health Leaders on Benefits of Vaccination](#)

RESOURCES

- WHO [Weekly Epidemiology Update on COVID-19](#)
- European CDC [Threat Assessment Brief: Implications for the EU/EEA on the spread of the SARS-CoV-2 Delta \(B.1.617.2\) variant of concern](#)
- CDC/IDSA Clinician Call: [Myocarditis after COVID-19 mRNA vaccine; Plus vaccine Q&A](#)
- IDSA
 - Podcast: [When to Use Antigen Tests](#)
 - Vaccine Education Roundtable:
 - [The State of Global Vaccine Equity, Part 1](#)
 - [The State of Global Vaccine Equity, Part 2](#)
- UCSF Department of Medicine COVID-19 Grand Rounds: [The Delta Variant, and Lessons from the Pandemic](#)
- Stanford Department of Medicine COVID-19 Grand Rounds: [Connecting COVID-19 with Autoimmunity](#)
- Center for Infectious Disease Research and Policy
 - Osterholm Update: COVID-19 [Episode 59: Wrestling with Risk](#)

ACADEMIC/RESEARCH PAPERS

- *BMC Infectious Diseases*
 - [SARS-CoV-2 transmission in educational settings during an early summer epidemic wave in Luxembourg, 2020](#)





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- *New England Journal of Medicine*
 - [Multisystem Inflammatory Syndrome in Children — Initial Therapy and Outcomes](#)
 - [Treatment of Multisystem Inflammatory Syndrome in Children](#)
 - [Immunotherapy for MIS-C — IVIG, Glucocorticoids, and Biologics](#)
- *medRxiv*
 - [Rapid displacement of SARS-CoV-2 variant B.1.1.7 by B.1.617.2 and P.1 in the United States](#)
 - [Necessity of COVID-19 Vaccination in Previously Infected Individuals: A Retrospective Cohort Study](#)
 - [Brain imaging before and after COVID-19 in UK Biobank](#)
- *bioRxiv*
 - [High efficacy of therapeutic equine hyperimmune antibodies against SARS-CoV-2 variants of concern](#)
- *Cell*
 - [Profiling SARS-CoV-2 HLA-I peptidome reveals T cell epitopes from out-of-frame ORFs](#)
- *Vaccine*
 - [COVID-19 vaccination rates vary by community vulnerability: A county-level analysis](#)
- *JAMA*
 - [Assessment of Racial and Ethnic Disparities in Access to COVID-19 Vaccination Sites in Brooklyn, New York](#)
 - [Association of Changes in Seasonal Respiratory Virus Activity and Ambulatory Antibiotic Prescriptions With the COVID-19 Pandemic](#)
 - [Association of Convalescent Plasma Therapy With Survival in Patients With Hematologic Cancers and COVID-19](#)
 - [Association Between Race and COVID-19 Outcomes Among 2.6 Million Children in England](#)
 - [Pediatric COVID-19 Disparities and Prioritizing Equity—Children Are Not Spared](#)
 - [Lived Experiences of Family Members of Patients With Severe COVID-19 Who Died in Intensive Care Units in France](#)
 - [Providing Family-Centered Intensive Care Unit Care Without Family Presence—Human Connection in the Time of COVID-19](#)
 - [Assessing the Association Between Social Gatherings and COVID-19 Risk Using Birthdays](#)
 - [SARS-CoV-2 Positivity and Mask Utilization Among Health Care Workers](#)
- *Nature*
 - [Long COVID in a prospective cohort of home-isolated patients](#)
- *Science*
 - [Undiagnosed SARS-CoV-2 Seropositivity During the First Six Months of the COVID-19 Pandemic in the United States](#)
- *The Lancet*
 - [Imatinib in patients with severe COVID-19: a randomised, double-blind, placebo-controlled, clinical trial](#)
 - [Mortality and critical care unit admission associated with the SARS-CoV-2 lineage B.1.1.7 in England: an observational cohort study](#)
 - [Risk of hospitalisation associated with infection with SARS-CoV-2 lineage B.1.1.7 in Denmark: an observational cohort study](#)
 - [SARS-CoV-2 variants and considerations of inferring causality on disease severity](#)
- *Open Forum Infectious Diseases*
 - [Monoclonal Antibody Therapy for COVID-19 in Solid Organ Transplant Recipients](#)





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- *Emerging Infectious Diseases*
 - [Effects of COVID-19 Vaccination Timing and Risk Prioritization on Mortality Rates, United States](#)
 - [Industry Sectors Highly Affected by Worksite Outbreaks of Coronavirus Disease, Los Angeles County, California, USA, March 19–September 30, 2020](#)
 - [Severe Acute Respiratory Syndrome Coronavirus 2 P.2 Lineage Associated with Reinfection Case, Brazil, June–October 2020](#)
 - [Genomic Evolution of SARS-CoV-2 Virus in Immunocompromised Patient, Ireland](#)
 - [Seroprevalence of SARS-CoV-2 among Blood Donors and Changes after Introduction of Public Health and Social Measures, London, UK](#)
 - [Emergence of SARS-CoV-2 B.1.1.7 Lineage at Outpatient Testing Site, Berlin, Germany, January–March 2021](#)
 - [Multiplex Real-Time Reverse Transcription PCR for Influenza A Virus, Influenza B Virus, and Severe Acute Respiratory Syndrome Coronavirus 2](#)
 - [Psychobehavioral Responses and Likelihood of Receiving COVID-19 Vaccines during the Pandemic, Hong Kong](#)
 - [COVID-19 Outbreak on a Passenger Ship and Assessment of Response Measures, Greece, 2020](#)
 - [Assessing Community Vulnerability over 3 Waves of COVID-19 Pandemic, Hong Kong, China](#)
 - [Cross-Sectional Serosurvey of Companion Animals Housed with SARS-CoV-2–Infected Owners, Italy](#)
 - [Multisystem Inflammatory Syndrome after SARS-CoV-2 Infection and COVID-19 Vaccination](#)
 - [Possible Human-to-Dog Transmission of SARS-CoV-2, Italy, 2020](#)
 - [Prolonged SARS-CoV-2 RNA Shedding from Therapy Cat after Cluster Outbreak in Retirement Home](#)
 - [Natural SARS-CoV-2 Infection in Kept Ferrets, Spain](#)
 - [SARS-CoV-2 Aerosol Exhaled by Experimentally Infected Cynomolgus Monkeys](#)
- *Cleveland Clinic Journal of Medicine*
 - [Update to coagulopathy in COVID-19: Manifestations and management](#)
 - [Pregnancy and delivery considerations during COVID-19](#)
 - [Vaccine hesitance and vaccine access in minority communities](#)
- *ACS Nano*
 - [Primary, Recall, and Decay Kinetics of SARS-CoV-2 Vaccine Antibody Responses](#)
- *Annals of Neurology*
 - [Guillain-Barré Syndrome following ChAdOx1-S/nCoV-19 Vaccine](#)
 - [Guillain-Barré syndrome variant occurring after SARS-CoV-2 vaccination](#)
- *BMJ Journal*
 - [Effect of the covid-19 pandemic in 2020 on life expectancy across populations in the USA and other high income countries: simulations of provisional mortality data](#)
 - [Plant-based diets, pescatarian diets and COVID-19 severity: a population-based case–control study in six countries](#)
- *JAC – Antimicrobial Resistance*
 - [Antibiotic prescribing for respiratory tract infection in patients with suspected and proven COVID-19: results from an antibiotic point prevalence survey in Scottish hospitals](#)
- *American Society of Microbiology*
 - [Liquid Chalk Is an Antiseptic against SARS-CoV-2 and Influenza A Respiratory Viruses](#)
- *FAIR Health*
 - [A Detailed Study of Patients with Long-Haul COVID](#)





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- [COVID-19 Vaccination Coverage Among Adults — United States, December 14, 2020–May 22, 2021](#)
- [COVID-19 Vaccination Coverage and Intent Among Adults Aged 18–39 Years — United States, March–May 2021](#)
- [COVID-19 Surveillance and Investigations in Workplaces — Seattle & King County, Washington, June 15–November 15, 2020](#)

HOT OFF THE (LAY) PRESS

- *White House Statements and Releases*
 - [Biden-Harris Administration Announces Allocation Plan for 55 Million Doses to be Shared Globally](#)
- *New York Times*
 - [White House Says It Will Narrowly Miss July 4 Vaccination Goal](#)
 - [Anthony Fauci on the Lab Leak Theory and Emailing Mark Zuckerberg](#)
 - [High Hopes for Johnson & Johnson's Covid Vaccine Have Fizzled in the U.S.](#)
 - [They Relied on Chinese Vaccines. Now They're Battling Outbreaks.](#)
 - [Cuba reports a high success rate for its homegrown Abdala vaccine.](#)
- *The Washington Post*
 - [U.S. to miss July 4 vaccine goal; Fauci calls delta variant country's 'greatest threat'](#)
 - [Delta variant could become dominant strain in U.S. this summer, CDC head says](#)
 - [Jill Biden tours Southern states to encourage vaccination as youth cases grow](#)
 - [153 people resigned or were fired from a Texas hospital system after refusing to get vaccinated](#)
- *The Wall Street Journal*
 - [Biden Administration to Miss June Target for Some Covid-19 Vaccine Donations](#)
 - [Medicaid Enrollment Surged During Covid-19 Pandemic, Report Shows](#)
 - [China to Keep Covid-19 Border Restrictions for Another Year](#)
 - [The Power of Natural Immunity](#)
- *Politico*
 - [Million-dollar lotteries fail to cut through vaccine apathy](#)
- *Reuters*
 - [Vaccinated Israelis may need to quarantine because of Delta variant](#)
 - [Sydney isolated as COVID-19 clusters build; NZ tightens curbs in capital](#)
 - [Up to 10,000 fans allowed at Tokyo 2020 venues, despite warnings](#)
- *The New Yorker*
 - [The Delta Variant Is a Grave Danger to the Unvaccinated](#)
 - [What Will Become of the Pandemic Pets?](#)
- *NPR*
 - [The Pandemic Led To The Biggest Drop In U.S. Life Expectancy Since WWII, Study Finds](#)
- *AP News*
 - [AP-NORC poll: Many Americans resuming pre-virus activities](#)
- *Scientific American*
 - [From \\$1-Million Lotteries to Free Beer: Do COVID Vaccination Incentives Work?](#)
- *Science*
 - [Monoclonal antibodies cut risk of dying from COVID-19—but only in some patients](#)





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- *Popular Science*
 - [Can a simple pill treat COVID? A new initiative from the NIH wants to find one.](#)
 - [As people unmask, other viral diseases are making a dangerous comeback](#)
- *Platform Randomised Trial of Treatments in the Community for Epidemic and Pandemic Illnesses (PRINCIPLE) News*
 - [Ivermectin to be investigated in adults aged 18+ as a possible treatment for COVID-19 in the PRINCIPLE trial](#)
- *Science Alert*
 - [A Single Shocking Statistic Reveals Why Global Herd Immunity Is Out of Reach](#)
- *SciTechDaily*
 - [New Research Reveals COVID-19 Leads to Cognitive and Behavioral Problems](#)
- *Mercury News*
 - [This bill was meant to protect California workers from COVID. These counties are using it to protect employers instead.](#)
- *Los Angeles Times*
 - [Santa Clara County had the state's first COVID-19 rules. It just dropped its final one](#)
 - [Nursing home deaths rose by 32% in 2020 amid COVID pandemic](#)
 - [COVID-19 might shrink parts of the brain, scientists say](#)
 - [Border COVID-19 vaccination plan with U.S.-donated shots starts in Baja California](#)
- *San Francisco Chronicle*
 - [CDC panel to examine heart inflammation cases in young people after COVID vaccinations](#)
 - [FDA poised to add vaccine heart warnings for young people](#)
 - [Delta coronavirus strain is growing fast in California, with risk for unvaccinated people](#)
 - [S.F. will require all city workers to be vaccinated. Those who don't could be fired](#)
 - [San Francisco and Los Angeles have never been closer on COVID metrics](#)
 - [I tried to get my California digital vaccine record. Here's how it works, and what to do if it doesn't](#)

EPIDEMIOLOGY UPDATES

- [CDC COVID Data Tracker](#)
- **US Leads the World in Confirmed COVID-19 Cases** per [Johns Hopkins University Center for Systems Science and Engineering Dashboard Website](#)
- [Johns Hopkins COVID-19 in the USA](#) – daily summary of key data on COVID-19 in the U.S.
- **California COVID-19 by the numbers** are available on the [CDPH Website](#) and the [NYT Map and Table](#) (includes data by county)
 - **California [COVID-19 Statewide Update](#) as of June 30, 2021**
- [San Mateo County COVID-19 Dashboard](#)
- [Santa Clara County COVID-19 Dashboard](#)

ADDITIONAL COVID-19 RESOURCES

- [San Mateo County COVID-19 Guidance and Resources for Clinicians and Facilities – COVID-19 Digests](#)
- [Palo Alto Online tracking the coronavirus in San Mateo and Santa Clara counties](#)
- [California COVID-19 Data and Tools](#)
- [CDPH COVID-19 Assessment and Modeling Tool](#)
- [California Department of Corrections and Rehabilitations Population COVID-19 Tracking Dashboards](#)





SAN MATEO COUNTY HEALTH

PUBLIC HEALTH, POLICY & PLANNING

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- [CDC Interactive Serology Dashboard for Commercial Laboratory Surveys](#)
- [Children and COVID-19: State-Level Data Report](#)
- [HHS Coronavirus Data Hub](#)
- [COVID-19 Nursing Home Data](#)

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