



COVID-19 Digest Issue 42

February 11, 2021

CLINICAL PEARLS

- **Can the COVID-19 mRNA vaccines cause infertility?**
There is no evidence linking either the Pfizer-BioNTech or Moderna mRNA vaccines to infertility. Since FDA authorization of these vaccines, information has circulated on the internet that the antigen created by the vaccine (the SARS-CoV-2 spike protein) is similar to another protein that is important for placental attachment (syncytin-1), and that vaccination results in antibodies that target syncytin-1. Neither COVID-19 mRNA vaccines contain syncytin-1, nor does the mRNA used in the vaccines encode for syncytin-1. In addition, the spike protein formed as a result of vaccination with either COVID-19 mRNA vaccines and syncytin-1 are structurally very dissimilar. No data indicates the antibodies formed as a result of COVID-19 mRNA vaccination target syncytin-1.
- Per its updated [Guidelines on the Treatment and Management of Patients with COVID-19](#), the Infectious Diseases Society of America **suggests against ivermectin use** outside the context of a clinical trial, for both hospitalized patients with severe COVID-19 and outpatients with COVID-19.

PUBLIC HEALTH UPDATES

- CDC: [Public Health Recommendations for Vaccinated Persons](#)
- [FDA Updates Emergency Use Authorization for COVID-19 Convalescent Plasma to Reflect New Data](#)
- [FDA Authorizes Monoclonal Antibodies for Treatment of COVID-19](#)

GUIDANCE/GUIDELINES

- American Academy of Pediatrics: [Interim Guidance for COVID-19 Vaccination in Children and Adolescents](#)
- NIH: [The COVID-19 Treatment Guidelines Panel's Statement on the Use of Tocilizumab \(and Other Interleukin-6 Inhibitors\) for the Treatment of COVID-19](#)
- The Society of Critical Care Medicine Surviving Sepsis Campaign: [Guidelines on the Management of Critically Ill Adults with Coronavirus Disease 2019 \(COVID-19\)](#)

RESOURCES

- CDC
 - [COVID-19 Vaccine FAQs for Healthcare Professionals](#)
 - [Understanding the Federal Retail Pharmacy Program for COVID-19 Vaccination](#)
- CDC/IDSA COVID-19 Clinician Call: [COVID-19 Treatment Updates & More Vaccine Q&A](#)
- CDC/IDSA Real Time Learning Network: [Vaccines in Development](#)
- IDSA
 - Podcast: [COVID-19: Emerging Variants & the Race to Vaccinate](#)
 - Media Briefing: [Importance of Masking](#)
- JAMA Learning Network
 - [Coronavirus Variants - What They Mean](#)
 - [Coronavirus Update With Anthony Fauci – February 3, 2021](#)
- American Medical Association [Paul Offit, MD, talks new vaccines & when kids will be vaccinated](#)
- King Abdullah University of Science and Technology [COVID-19 virus mutation tracker](#)
- Kaiser Family Foundation [Latest Data on COVID-19 Vaccinations Race/Ethnicity](#)





SAN MATEO COUNTY HEALTH

PUBLIC HEALTH, POLICY & PLANNING

COVID-19 Digest Issue 42

Dr. Scott Morrow, Health Officer
Cassius Lockett, PhD, Director

Public Health, Policy & Planning
225 37th Avenue
San Mateo, CA 94403
smchealth.org

ACADEMIC/RESEARCH PAPERS

- *The Lancet*
 - [Efficacy of ChAdOx1 nCoV-19 \(AZD1222\) Vaccine Against SARS-CoV-2 VOC 202012/01 \(B.1.1.7\)](#)
 - [Comparative cost-effectiveness of SARS-CoV-2 testing strategies in the USA: a modelling study](#)
- *Clinical Infectious Diseases*
 - [Antigen-Based Testing but Not Real-Time Polymerase Chain Reaction Correlates With Severe Acute Respiratory Syndrome Coronavirus 2 Viral Culture](#)
- *medRxiv*
 - [Evaluation of COVID-19 vaccination strategies with a delayed second dose](#)
 - [An interactive COVID-19 virus Mutation Tracker \(CovMT\) with a particular focus on critical mutations in the Receptor Binding Domain \(RBD\) region of the Spike protein](#)
 - [Genomic epidemiology identifies emergence and rapid transmission of SARS-CoV-2 B.1.1.7 in the United States](#)
 - [Strategies to minimize SARS-CoV-2 transmission in classroom settings: Combined impacts of ventilation and mask effective filtration efficiency](#)
 - [Predictive power of SARS-CoV-2 wastewater surveillance for diverse populations across a large geographical range](#)
 - [SARS-CoV-2 seropositivity and subsequent infection risk in healthy young adults: a prospective cohort study](#)
- *Science*
 - [Prospective mapping of viral mutations that escape antibodies used to treat COVID-19](#)
 - [Broad and potent activity against SARS-like viruses by an engineered human monoclonal antibody](#)
 - [Age groups that sustain resurging COVID-19 epidemics in the United States](#)
- *Nature*
 - [Predicting COVID-19 mortality with electronic medical records](#)
- *Open Forum Infectious Diseases*
 - [59. Persistence of Respiratory and Non-respiratory Symptoms Among COVID-19 Patients Seeking Care at an Ambulatory COVID-19 Center](#)
 - [Prospective cohort of flvoxamine for early treatment of COVID-19](#)
- *Annals of Internal Medicine*
 - [Thrombosis, Bleeding, and the Observational Effect of Early Therapeutic Anticoagulation on Survival in Critically Ill Patients With COVID-19](#)
- *JAMA*
 - [Association of Social and Demographic Factors With COVID-19 Incidence and Death Rates in the US](#)
 - [Clinical Characteristics and Outcomes of Hospitalized Women Giving Birth With and Without COVID-19](#)
 - [Association of Psychiatric Disorders With Mortality Among Patients With COVID-19](#)
 - [COVID-19 Outcomes Among Persons Living With or Without Diagnosed HIV Infection in New York State](#)
- *Journal of American College of Cardiology*
 - [High Prevalence of Pericardial Involvement in College Student Athletes Recovering From COVID-19](#)
- *American Journal of Roentgenology*
 - [Management of Unilateral Axillary Lymphadenopathy Detected on Breast MRI in the Era of Coronavirus Disease \(COVID-19\) Vaccination](#)





COVID-19 Digest Issue 42

- *Emerging Infectious Diseases*
 - [COVID-19 Infection Control Measures in Long-Term Care Facility, Pennsylvania, USA](#)
 - [Symptom Profiles and Progression in Hospitalized and Nonhospitalized Patients with Coronavirus Disease, Colorado, USA, 2020](#)
 - [Rapid Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 in Detention Facility, Louisiana, USA, May–June, 2020](#)
 - [SARS-CoV-2 Infections among Recent Organ Recipients, March–May 2020, United States](#)
 - [SARS-CoV-2 Infection and Mitigation Efforts among Office Workers, Washington, DC, USA](#)
 - [SARS-CoV-2 Seropositivity among US Marine Recruits Attending Basic Training, United States, Spring–Fall 2020](#)
 - [Rapid Spread and Control of Multidrug-Resistant Gram-Negative Bacteria in COVID-19 Patient Care Units](#)
 - [COVID-19–Associated Pulmonary Aspergillosis, March–August 2020](#)
 - [Intrauterine Transmission of SARS-CoV-2](#)
 - [Characteristics and Timing of Initial Virus Shedding in Severe Acute Respiratory Syndrome Coronavirus 2, Utah, USA](#)
 - [Strand-Specific Reverse Transcription PCR for Detection of Replicating SARS-CoV-2](#)
 - [Addressing COVID-19 Misinformation on Social Media Preemptively and Responsively](#)
 - [COVID-19–Related Misinformation among Parents of Patients with Pediatric Cancer](#)
 - [Surveillance of COVID-19–Associated Multisystem Inflammatory Syndrome in Children, South Korea](#)
 - [COVID-19 and Infant Hospitalizations for Seasonal Respiratory Virus Infections, New Zealand, 2020](#)
 - [Prevalence of SARS-CoV-2–Specific Antibodies, Japan, June 2020](#)
 - [Long-Term Humoral Immune Response in Persons with Asymptomatic or Mild SARS-CoV-2 Infection, Vietnam](#)
 - [Characteristics of Patients Co-infected with Severe Acute Respiratory Syndrome Coronavirus 2 and Dengue Virus, Buenos Aires, Argentina, March–June 2020](#)
 - [Excess Deaths during Influenza and Coronavirus Disease and Infection-Fatality Rate for Severe Acute Respiratory Syndrome Coronavirus 2, the Netherlands](#)
 - [Severe Acute Respiratory Syndrome Coronavirus 2 Outbreak Related to a Nightclub, Germany, 2020](#)
 - [Evidence of SARS-CoV-2 RNA in an Oropharyngeal Swab Specimen, Milan, Italy, Early December 2019](#)
 - [Protective Immunity and Persistent Lung Sequelae in Domestic Cats after SARS-CoV-2 Infection](#)
 - [SARS-CoV-2 Transmission between Mink \(*Neovison vison*\) and Humans, Denmark](#)
- *Johns Hopkins University Bloomberg School of Public Health Center for Health Security*
 - [Potential Solutions to the COVID-19 Oxygen Crisis in the United States](#)

MMWR

- [Maximizing Fit for Cloth and Medical Procedure Masks to Improve Performance and Reduce SARS-CoV-2 Transmission and Exposure, 2021](#)
- [Observed Face Mask Use at Six Universities — United States, September–November 2020](#)
- [Decline in COVID-19 Hospitalization Growth Rates Associated with Statewide Mask Mandates — 10 States, March–October 2020](#)
- [COVID-19 Vaccination Intent, Perceptions, and Reasons for Not Vaccinating Among Groups Prioritized for Early Vaccination — United States, September and December 2020](#)





COVID-19 Digest Issue 42

HOT OFF THE (LAY) PRESS

- *The Wall Street Journal*
 - [Fewer Children Are Attending School, Remotely and In Person](#)
 - [Biden's Plan for Reopening Schools Faces Challenges](#)
 - [New York City Middle Schools to Resume Some In-Person Instruction](#)
 - [Chicago, San Francisco Reach Tentative Deals With Teachers Unions on Reopening Schools](#)
 - [San Francisco City Attorney Sues School District Over Reopening Plan](#)
 - [Covid-19 Testing in Schools Bolsters Safety but Is Hard to Set Up, Studies Find](#)
 - [Getting Teachers the Covid-19 Vaccine Is a Hurdle to Reopening Schools](#)
 - [Covid-19 Vaccine Hesitancy Presents Challenge for Herd-Immunity Push](#)
- *New York Times*
 - [C.D.C. research finds that tightly fitted masks, or doubling up with both cloth and surgical masks, could reduce virus transmission by up to 96.5%.](#)
 - [Johnson & Johnson's single-shot vaccine could arrive in the U.S. soon.](#)
 - [As Moderna looks to increase the doses in vaccine vials, the White House announces an expected boost in manufacturing.](#)
 - [New data on the AstraZeneca-Oxford vaccine lend support for delaying its second doses.](#)
 - [South Africa halted its rollout of the AstraZeneca vaccine after it was found not to prevent mild or moderate cases of the variant first seen there.](#)
 - [Israel's Vaccination Results Point a Way Out of Virus Pandemic](#)
 - [60 Black Health Experts Urge Black Americans to Get Vaccinated](#)
 - [The Coronavirus Crossroads: the Vaccinated, the Stymied and the Waiting. Frustration and at times resentment among those struggling to get a shot, and tempered elation on the other side of the divide.](#)
 - [The wealthy are taking an outsize share of vaccines meant for poorer neighborhoods.](#)
 - [In the Vaccine Scramble, Cancer Patients Are Left Behind](#)
 - [Some states in the U.S. are pulling back vaccine doses from the federal program for nursing homes.](#)
 - [In Line for Vaccination, and Not Getting Younger](#)
 - [How Does California's Vaccine Rollout Compare With Other Parts of the Country?](#)
 - [A New Front in the Anti-Vaccine Fight Emerges in California](#)
 - [Dying of Covid in a 'Separate and Unequal' L.A. Hospital](#)
 - [In a late-night ruling, the Supreme Court partly lifts virus restrictions on religious services in California](#)
 - [People with dementia are twice as likely to get Covid-19, a study finds](#)
 - [Coronavirus testing in the U.S. is declining. Experts aren't sure why](#)
 - [Burned by Low Reimbursements, Some Doctors Stop Testing for Covid](#)
 - [Pandemic's Toll on Housing: Falling Behind, Doubling Up](#)
 - [W.H.O. experts who are investigating the origin of the virus visit a lab in Wuhan.](#)
 - [A W.H.O. team tracing the pandemic's origins in China discusses its findings](#)
 - [China Scores a Public Relations Win After W.H.O Mission to Wuhan](#)
 - [A virus variant first found in Britain is rapidly spreading in the U.S., doubling roughly every 10 days, a study found, confirming C.D.C. predictions.](#)
 - [U.S. coronavirus deaths, though still high, have seen a sustained decline](#)
- *Center for Infectious Disease Research and Policy News*
 - [Despite drop in global COVID-19 cases, WHO says keep guard up](#)
 - [Experts tout delaying 2nd COVID vaccine dose as US deaths mount](#)
- *The Hill*
 - [Biden officials defend two-dose strategy amid fears of variants](#)





COVID-19 Digest Issue 42

- [CDC head: Vaccinating teachers 'not a prerequisite' for safe school reopening](#)
- *The Washington Post*
 - [Biden harnesses Defense Production Act to speed vaccinations and production of protective equipment](#)
 - [A fast, at-home coronavirus test will be available to Americans this year](#)
 - [U.S. response to coronavirus variants emphasizes masks and vaccines instead of lockdowns](#)
 - [Why Vaccines Might Not Be Able to Eliminate Covid-19](#)
 - [Some states are racing ahead of others with their coronavirus vaccine rollouts. Their secret? Keeping it simple.](#)
- *BioWorld*
 - [Positive news: Astrazeneca vaccine still effective in B.1.1.7 SARS-CoV-2 variant](#)
- *Science Speaks: Global ID News*
 - [COVID vaccines in HIV-Positive recipients: Need for more data from the Novavax South Africa study and with other vaccine platforms](#)
- *The Atlantic*
 - [COVID-19 Vaccines Might Never Get Us to Herd Immunity](#)
- *CNBC*
 - [Dr. Fauci says it's important to wear a mask even after getting the Covid vaccine. Here's why](#)
- *Medscape*
 - [COVID-19: Antibodies 'Remain for at Least 6 Months'](#)
- *Eli Lilly News Release*
 - [Lilly's bamlanivimab \(LY-CoV555\) administered with etesevimab \(LY-CoV016\) receives FDA emergency use authorization for COVID-19](#)
- *Reuters*
 - [UK virus variant has developed concerning new mutation in small number of cases](#)
 - [Oxford finds COVID-19 shot 76% effective for 3 months after single dose](#)
- *Bloomberg*
 - [U.S. Hits Pandemic Milestone With More Vaccinated Than Cases](#)
 - [Doctors Without Hospitals Hunt for Vaccines as Others Jump Ahead](#)
- *The New Yorker*
 - [Inside the Worst-Hit County in the Worst-Hit State in the Worst-Hit Country](#)
- *NPR*
 - [Why The Pandemic Is 10 Times Worse Than You Think](#)
 - [Why Issues With Medical Records Interfere With Vaccine Rollouts](#)
 - [Some Health Workers Say They're Not Refusing The Vaccine, They Just Need Some Time](#)
 - [Facebook Widens Ban On COVID-19 Vaccine Misinformation In Push To Boost Confidence](#)
 - [Gorilla Gets Monoclonal Antibody Therapy For COVID-19](#)
 - [Extraordinary Patient Offers Surprising Clues To Origins Of Coronavirus Variants](#)
 - [Biden Administration Will Ship COVID-19 Vaccines Directly To Pharmacies](#)
- *USA Today*
 - [CVS, Walgreens to begin delivering COVID-19 vaccines on Friday](#)
- *ABC7 News*
 - ['We don't have resources': CA lags behind in reporting race, ethnicity COVID-19 vaccination data](#)
- *Los Angeles Times*





COVID-19 Digest Issue 42

- [Decades later, infamous Tuskegee syphilis study stirs wariness in Black community over COVID-19 vaccine.](#)
- [California still facing acute shortages of COVID-19 vaccine as concerns about equity rise](#)
- [Months after contracting COVID-19, some will try anything to regain their sense of smell](#)
- [First infections with South Africa coronavirus strain found in California](#)
- [Some California churches will reopen Sunday after Supreme Court lifts ban on indoor services.](#)
- *San Francisco Chronicle*
 - [Bay Area religious leaders have mixed reactions to Supreme Court affirmation of indoor worship](#)
 - [California poised to surpass New York with most COVID deaths](#)
 - [That doozy of a second dose: What side effects people are reporting from COVID vaccine](#)
 - [More Californians 65 and older can get shots as Santa Clara County, Sutter Health change policies](#)
 - [Here are the mass COVID vaccination sites open or planned across the Bay Area](#)
 - [49ers' Levi's Stadium will be transformed into California's largest vaccination site](#)
- *Mercury News*
 - [More contagious South African coronavirus strain found in Santa Clara and Alameda counties](#)
 - [Crematories on double shifts, refrigerated trucks in parking lots as “extraordinary explosion” of COVID deaths stress Bay Area’s funeral industry](#)

EPIDEMIOLOGY UPDATES

- **CDC COVID Data Tracker**
 - [CDC COVID-19 Forecasts: Deaths](#)
 - [United States COVID-19 Cases and Deaths by State](#)
 - [CDC COVID Data Tracker: Vaccinations](#)
 - **NEW** - [CDC US COVID-19 Cases Caused by Variants](#)
- **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 February 11, 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](#)
- [CDC Interactive Serology Dashboard for Commercial Laboratory Surveys](#)
- [HHS Coronavirus Data Hub](#)
- [COVID-19 Nursing Home Data](#)
- [CDC COVID-19 Forecasts: Deaths](#)
- [Children and COVID-19: State-Level Data Report](#)

