**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](https://www.cdc.gov/mmwr/volumes/70/wr/mm7004e1.htm), 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](https://www.cdc.gov/vaccines/health-professional/patient-education/index.html)

**GUIDANCE/GUIDELINES**

- 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](https://www.covid19treatmentguidelines.org/tocilizumab-and-other-interleukin-6-inhibitors-care-of-patients-with-covid-19/)

**RESOURCES**

- CDC
  - [COVID-19 Vaccine FAQs for Healthcare Professionals](https://www.cdc.gov/vaccines/health-professional/patient-education/index.html)
  - [Understanding the Federal Retail Pharmacy Program for COVID-19 Vaccination](https://www.cdc.gov/vaccines/retail-pharmacy/index.html)
- CDC/IDSA Real Time Learning Network: [Vaccines in Development](https://www.cdc.gov/vaccines/health-professional/training/covid-19-vaccines-in-development.html)
- IDSA
  - Media Briefing: [Importance of Masking](https://www.idsalarms.org/2021-12-02-importance-masking)
- JAMA Learning Network
  - [Coronavirus Variants - What They Mean](https://jamanetwork.com/journals/jama/fullarticle/2797772)
  - [Coronavirus Update With Anthony Fauci – February 3, 2021](https://jamanetwork.com/journals/jama/fullarticle/2797677)
- King Abdullah University of Science and Technology: [COVID-19 virus mutation tracker](https://coronavirus.ku.edu.sa/)
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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 fluvoxamine 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
• **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
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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
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- **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 Lily 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**
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- 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