



## COVID-19 Digest Issue 53

April 30, 2021

### CLINICAL PEARLS

- **Real-world efficacy of the two mRNA-based vaccines available in the US:** [According to Mayo Clinic researchers](#) reporting on the administration of 94,382 doses of mRNA COVID-19 vaccine to 49,220 health care providers who had not experienced prior SARS-CoV-2 infection, **the effectiveness following two doses of mRNA vaccine exceeded 96%. After a single dose** (an analysis from a much smaller group), **efficacy was 78%**. These results validate the high degree of efficacy of the mRNA vaccines from Pfizer/BioNTech and Moderna, far exceeding the initial requirements of 50% efficacy and the even optimistic expert hopes for 70% efficacy.
- **Scottish researchers have demonstrated that even a single dose of a two-dose vaccine schedule is highly effective at reducing hospitalization for COVID-19, especially among the elderly.** Publishing in [The Lancet](#), researchers describe the results of early vaccine efforts between Dec 8, 2020, and Feb 22, 2021. A total of 1,331,993 people, with a mean age 65.0 years, were vaccinated over this time. **The first dose of the Pfizer/BioNTech mRNA vaccine was associated with a vaccine effect of 91% for reduced COVID-19 hospital admission at 28-34 days post-vaccination.** Vaccine effect at the same time interval for the Oxford/AstraZeneca vaccine was 88%. Results of combined vaccine effects against hospital admission due to COVID-19 were similar when restricting the analysis to those aged 80 years and older (83%, at 28-34 days post-vaccination).

### PUBLIC HEALTH UPDATES

- [FDA and CDC Lift Recommended Pause on Johnson & Johnson \(Janssen\) COVID-19 Vaccine Use Following Thorough Safety Review](#)
- WHO [Statement of the Strategic Advisory Group of Experts \(SAGE\) on Immunization: Continued review of emerging evidence on AstraZeneca COVID-19 Vaccines](#)
- NIH
  - [Clinical trial of therapeutics for severely ill hospitalized COVID-19 patients begins](#)
  - [COVID-19 vaccine responses to be studied in people with immune deficits](#)

### GUIDANCE/GUIDELINES

- CDC
  - [Interim Public Health Recommendations for Fully Vaccinated People](#)
  - [Guidance for Operating Youth and Summer Camps During COVID-19](#)
  - [Choosing Safer Activities](#)
- CDPH
  - [FACT SHEET: Johnson & Johnson COVID-19 Vaccine Benefits and Risks](#)
  - [Johnson & Johnson COVID-19 Vaccine](#)
- American College of Rheumatology [COVID-19 Vaccine Clinical Guidance Summary for Patients with Rheumatic and Musculoskeletal Diseases](#)





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### RESOURCES

- CDC
  - COCA Call: [Johnson & Johnson/Janssen COVID-19 Vaccine and Thrombosis with Thrombocytopenia Syndrome \(TTS\): Update for Clinicians](#)
  - Emerging Infectious Diseases Podcast: [COVID-19 in and out of Hospitals, Atlanta, Georgia](#)
  - [COVID-19 Science Update](#)
  - [Immunization MMWRs](#)
- CDC/IDSA
  - COVID-19 Clinician Call: [Multisystem Inflammatory Syndrome in Adults \(MIS-A\); Plus ACIP Meeting Update](#)
- IDSA Media Briefing: [COVID Trends & Life After Vaccination](#)
- HHS [COMBATCOVID](#)
- WHO [Coronavirus \(COVID-19\) Dashboard](#)
- Our World in Data [Coronavirus \(COVID-19\) Vaccinations](#)
- GISAID [Tracking of Variants](#)
- Collaborative COVID-19 Literature Review Synopses (CoCOLRS) Database [Main COVID-19 Literature Collection](#)
- The National Academies of Sciences, Engineering, Medicine [UNDERSTANDING AND COMMUNICATING VACCINE EFFICACY AND EFFECTIVENESS](#)
- Center for Infectious Disease Research and Policy
  - Osterholm Update: [COVID-19 Episode 52 A Balancing Act Continued](#)
- Castleman Disease Collaborative Network [CORONA \(COvid19 Registry of Off-label & New Agents\) Project](#)
- California Medical Association [Virtual Grand Rounds: COVID-19 Clinical Updates](#)
- Stanford Department of Medicine Grand Rounds [From the Front Lines in India](#)
- TEDMED [Heidi Larson Rumors, trust and vaccines](#)

### ACADEMIC/RESEARCH PAPERS

- *Public Health England*
  - [Impact of vaccination on household transmission of SARS-CoV-2 in England](#)
- *bioRxiv*
  - [B.1.526 SARS-CoV-2 variants identified in New York City are neutralized by vaccine-elicited and therapeutic monoclonal antibodies](#)
  - [Detection and characterization of the SARS-CoV-2 lineage B.1.526 in New York](#)
  - [Neutralization of variant under investigation B.1.617 with sera of BBV152 vaccinees](#)
  - [The SARS-CoV-2 mRNA-1273 vaccine elicits more RBD-focused neutralization, but with broader antibody binding within the RBD](#)
  - [An ancient viral epidemic involving host coronavirus interacting genes more than 20,000 years ago in East Asia](#)
- *medRxiv*
  - [Impact of vaccination on SARS-CoV-2 cases in the community: a population-based study using the UK's COVID-19 Infection Survey](#)
  - [Real World Effectiveness of COVID-19 mRNA Vaccines against Hospitalizations and Deaths in the United States](#)





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- *Lancet*
  - [COVID-19 vaccine coverage in health-care workers in England and effectiveness of BNT162b2 mRNA vaccine against infection \(SIREN\): a prospective, multicentre, cohort study](#)
  - [First dose of BNT162b2 mRNA vaccine in a Health Care Worker cohort is associated with reduced symptomatic and asymptomatic SARS-CoV-2 infection](#)
  - [Vaccine side-effects and SARS-CoV-2 infection after vaccination in users of the COVID Symptom Study app in the UK: a prospective observational study](#)
  - [Symptom study app provides real-world data on COVID-19 vaccines](#)
  - [Interim findings from first-dose mass COVID-19 vaccination roll-out and COVID-19 hospital admissions in Scotland: a national prospective cohort study](#)
  - [Hospital admissions due to COVID-19 in Scotland after one dose of vaccine](#)
  - [Associations between body-mass index and COVID-19 severity in 6.9 million people in England: a prospective, community-based, cohort study](#)
  - [New insights into the association between body-mass index and severe COVID-19](#)
- *Epidemiology and Infection*
  - [Obesity is a strong risk factor for short-term mortality and adverse outcomes in Mexican patients with COVID-19: A national observational study](#)
- *Frontiers in Immunology*
  - [Acute Transverse Myelitis \(ATM\): Clinical Review of 43 Patients With COVID-19-Associated ATM and 3 Post-Vaccination ATM Serious Adverse Events With the ChAdOx1 nCoV-19 Vaccine \(AZD1222\)](#)
- *Cleveland Journal of Medicine*
  - [Anaphylaxis to vaccinations: A review of the literature and evaluation of the COVID-19 mRNA vaccinations](#)
  - [Bronchoscopy challenges during the COVID-19 pandemic](#)
  - [Promoting resiliency in adolescents during a pandemic: A guide for clinicians and parents](#)
- *JAMA*
  - [Maternal and Neonatal Morbidity and Mortality Among Pregnant Women With and Without COVID-19 Infection - The INTERCOVID Multinational Cohort Study](#)
  - [Association of Maternal SARS-CoV-2 Infection in Pregnancy With Neonatal Outcomes](#)
  - [Understanding Risk for Newborns Born to SARS-CoV-2-Positive Mothers](#)
  - [Genomic Epidemiology of SARS-CoV-2 Infection During the Initial Pandemic Wave and Association With Disease Severity](#)
  - [Association of Facial Paralysis With mRNA COVID-19 Vaccines – A Disproportionality Analysis Using the World Health Organization Pharmacovigilance Database](#)
  - [SARS-CoV-2 Transmission Risk Among National Basketball Association Players, Staff, and Vendors Exposed to Individuals With Positive Test Results After COVID-19 Recovery During the 2020 Regular and Postseason](#)
  - [COVID-19 Lessons From the National Basketball Association Bubble—Can Persistently SARS-CoV-2-Positive Individuals Transmit Infection to Others?](#)
  - [Effect of Early Treatment With Hydroxychloroquine or Lopinavir and Ritonavir on Risk of Hospitalization Among Patients With COVID-19 - The TOGETHER Randomized Clinical Trial](#)
  - [Acute Ischemic Stroke During the Convalescent Phase of Asymptomatic COVID-2019 Infection in Men](#)
  - [Remote Research and Clinical Trial Integrity During and After the Coronavirus Pandemic](#)
  - [Hand Hygiene Compliance Rate During the COVID-19 Pandemic](#)





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- [The Pandemic Stay-at-Home Order and Opioid-Involved Overdose Fatalities](#)
- *Journal of Virology*
  - [Correlates of Neutralization Against SARS-CoV-2 Variants of Concern by Early Pandemic Sera](#)
- *Nature*
  - [Single-cell multi-omics analysis of the immune response in COVID-19](#)
  - [High-dimensional characterization of post-acute sequelae of COVID-19](#)
- *The Journal of Experimental Medicine*
  - [Highly functional virus-specific cellular immune response in asymptomatic SARS-CoV-2 infection](#)
- *Pediatrics*
  - [Socioeconomic and Racial and/or Ethnic Disparities in Multisystem Inflammatory Syndrome](#)
- *Annals of Internal Medicine*
  - [Performance Evaluation of Serial SARS-CoV-2 Rapid Antigen Testing During a Nursing Home Outbreak](#)
  - [Utility of Rapid Antigen Tests in Nursing Homes](#)
  - [Update Alert 8: Risks and Impact of Angiotensin-Converting Enzyme Inhibitors or Angiotensin-Receptor Blockers on SARS-CoV-2 Infection in Adults](#)
- *New England Journal of Medicine*
  - [Platform Trials — Beware the Noncomparable Control Group](#)
- *PLOS*
  - [A human coronavirus evolves antigenically to escape antibody immunity](#)
  - [High-throughput, single-copy sequencing reveals SARS-CoV-2 spike variants coincident with mounting humoral immunity during acute COVID-19](#)
  - [A cross-national study of factors associated with women’s perinatal mental health and wellbeing during the COVID-19 pandemic](#)
- *BMJ*
  - [Infection and mortality of healthcare workers worldwide from COVID-19: a systematic review](#)
  - [Shift work is associated with positive COVID-19 status in hospitalised patients](#)
  - [Use of symptom checkers for COVID-19-related symptoms among university students: a qualitative study](#)
  - [Antibody response to a single dose of SARS-CoV-2 mRNA vaccine in patients with rheumatic and musculoskeletal diseases](#)
  - [Infliximab is associated with attenuated immunogenicity to BNT162b2 and ChAdOx1 nCoV-19 SARS-CoV-2 vaccines in patients with IBD](#)
- *Clinical Infectious Diseases*
  - [Effectiveness of mRNA COVID-19 vaccines against SARS-CoV-2 infection in a cohort of healthcare personnel](#)
  - [Widespread SARS-CoV-2 Transmission Among Attendees at a Large Motorcycle Rally and their Contacts, 30 US Jurisdictions, August–September, 2020](#)
  - [Transmission of SARS-CoV-2 on a Patient Transport Van](#)
- *The Journal of Infectious Diseases*
  - [Outdoor Transmission of SARS-CoV-2 and Other Respiratory Viruses: A Systematic Review](#)
- *International Journal of Infectious Diseases*
  - [Isolation of SARS-CoV-2 from the air in a car driven by a COVID patient with mild illness](#)
- *Emerging Infectious Diseases*
  - [SARS-CoV-2 in Nursing Homes after 3 Months of Serial, Facilitywide Point Prevalence Testing, Connecticut, USA](#)





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- [Prevalence and Clinical Profile of Severe Acute Respiratory Syndrome Coronavirus 2 Infection among Farmworkers, California, USA, June–November 2020](#)
- [Epidemiologic Findings from Case Investigations and Contact Tracing for First 200 Cases of Coronavirus Disease, Santa Clara County, California, USA](#)
- [Racial and Ethnic Disparities in Incidence of SARS-CoV-2 Infection, 22 US States and DC, January 1–October 1, 2020](#)
- [Detecting COVID-19 Clusters at High Spatiotemporal Resolution, New York City, New York, USA, June–July 2020](#)
- [SARS-CoV-2 Serial Interval Variation, Montana, USA, March 1–July 31, 2020](#)
- [Coordinated Strategy for a Model-Based Decision Support Tool for Coronavirus Disease, Utah, USA](#)
- [Coccidioidomycosis and COVID-19 Co-Infection, United States, 2020](#)
- [Susceptibility to SARS-CoV-2 of Cell Lines and Substrates Commonly Used to Diagnose and Isolate Influenza and Other Viruses](#)
- [Herd Immunity against Severe Acute Respiratory Syndrome Coronavirus 2 Infection in 10 Communities, Qatar](#)
- [Genetic Evidence and Host Immune Response in Persons Reinfected with SARS-CoV-2, Brazil](#)
- [Genomic Evidence of SARS-CoV-2 Reinfection Involving E484K Spike Mutation, Brazil](#)
- [Use of Genomics to Track Coronavirus Disease Outbreaks, New Zealand](#)
- [Detecting Rapid Spread of SARS-CoV-2 Variants, France, January 26–February 16, 2021](#)
- [Novel SARS-CoV-2 Variant Derived from Clade 19B, France](#)
- [Risk for International Importations of Variant SARS-CoV-2 Originating in the United Kingdom](#)
- [Introduction of ORF3a-Q57H SARS-CoV-2 Variant Causing Fourth Epidemic Wave of COVID-19, Hong Kong, China](#)
- [Undocumented Migrants Reintroducing COVID-19, Yunnan Province, China](#)
- [Novel Mutation of SARS-CoV-2, Vietnam, July 2020](#)
- [Successful Control of an Onboard COVID-19 Outbreak Using the Cruise Ship as a Quarantine Facility, Western Australia, Australia](#)
- [Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 during Border Quarantine and Air Travel, New Zealand \(Aotearoa\)](#)
- [Upper Respiratory Infections in Schools and Childcare Centers Reopening after COVID-19 Dismissals, Hong Kong](#)
- [Multisystem Inflammatory Syndrome in Children, Chile, May–August 2020](#)
- [Epidemiology of Confirmed COVID-19 Deaths in Adults, England, March–December 2020](#)
- [Symptom Diary–Based Analysis of Disease Course among Patients with Mild Coronavirus Disease, Germany, 2020](#)
- [COVID-19 Co-infection with \*Legionella pneumophila\* in 2 Tertiary-Care Hospitals, Germany](#)
- [Monitoring SARS-CoV-2 Circulation and Diversity through Community Wastewater Sequencing, the Netherlands and Belgium](#)
- [Clinical Evaluation of Roche SD Biosensor Rapid Antigen Test for SARS-CoV-2 in Municipal Health Service Testing Site, the Netherlands](#)
- [Serologic Screening of Severe Acute Respiratory Syndrome Coronavirus 2 Infection in Cats and Dogs during First Coronavirus Disease Wave, the Netherlands](#)
- **Gastroenterology**
  - [Serological response to mRNA COVID-19 vaccines in IBD patients receiving biological therapies](#)





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- *Journal of the American College of Cardiology*
  - [New Heart Failure Diagnoses Among Patients Hospitalized for COVID-19](#)
  - [Prognostic Value of Electrocardiographic QRS Diminution in Patients With COVID-19](#)
- *Pain Reports*
  - [Potential for increased prevalence of neuropathic pain after the COVID-19 pandemic](#)
- *Diabetologia*
  - [Risk phenotypes of diabetes and association with COVID-19 severity and death: a living systematic review and meta-analysis](#)
- *International Journal of Allergy and Rhinology*
  - [Systemic corticosteroids in coronavirus disease 2019 \(COVID-19\)-related smell dysfunction: an international view](#)
- *The Journal of Allergy and Clinical Immunology*
  - [COVID-19 Vaccination in Patients with Reported Allergic Reactions: Updated Evidence and Suggested Approach](#)
- *Journal of Acquired Immune Deficiency Syndrome*
  - [COVID-19 Related Medical Mistrust, Health Impacts, and Potential Vaccine Hesitancy Among Black Americans Living With HIV](#)
- *North Carolina Medical Journal*
  - [Vaccine Hesitancy in North Carolina: The Elephant in the Room?](#)
- *Nanoscale*
  - [Microchip-based structure determination of low-molecular weight proteins using cryo-electron microscopy](#)
- *Wakefield Research*
  - [SCAN Health Plan Survey QuickRead Report](#)

## MMWR

- [Effectiveness of Pfizer-BioNTech and Moderna Vaccines Against COVID-19 Among Hospitalized Adults Aged ≥65 Years — United States, January–March 2021](#)
- [Updated Recommendations from the Advisory Committee on Immunization Practices for Use of the Janssen \(Johnson & Johnson\) COVID-19 Vaccine After Reports of Thrombosis with Thrombocytopenia Syndrome Among Vaccine Recipients — United States, April 2021](#)
- [Safety Monitoring of the Janssen \(Johnson & Johnson\) COVID-19 Vaccine — United States, March–April 2021](#)
- [Anxiety-Related Adverse Event Clusters After Janssen COVID-19 Vaccination — Five U.S. Mass Vaccination Sites, April 2021](#)
- [Linked Clusters of SARS-CoV-2 Variant B.1.351 — Maryland, January–February 2021](#)
- [COVID-19 Outbreak Among Farmworkers — Okanogan County, Washington, May–August 2020](#)
- [COVID-19 Among Workers in the Seafood Processing Industry: Implications for Prevention Measures — Alaska, March–October 2020](#)
- [Health Care Utilization and Clinical Characteristics of Nonhospitalized Adults in an Integrated Health Care System 28–180 Days After COVID-19 Diagnosis — Georgia, May 2020–March 2021](#)





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### HOT OFF THE (LAY) PRESS

- *WHO Statements*
  - [More Europeans now vaccinated against COVID-19 than have had the virus](#)
  - [Statement of the Strategic Advisory Group of Experts \(SAGE\) on Immunization: Continued review of emerging evidence on AstraZeneca COVID-19 Vaccines](#)
- *European Medicines Agency Statements*
  - [EMA and ECDC join forces for enhanced post-marketing monitoring of COVID-19 vaccines in Europe](#)
- *Public Health England Press Releases*
  - [One dose of COVID-19 vaccine can cut household transmission by up to half](#)
- *The White House Statements and Releases*
  - [President Biden to Call on All Employers to Provide Paid Time Off for Employees to Get Vaccinated After Meeting Goal of 200 Million Shots in the First 100 Days](#)
  - [Biden-Harris Administration Delivers Emergency COVID-19 Assistance for India](#)
- *US Department of State*
  - [National Interest Exceptions for Certain Travelers from China, Iran, Brazil, South Africa, Schengen Area, United Kingdom, and Ireland](#)
- *New York Times*
  - [The F.D.A. ended its recommended pause on the J.&J. vaccine, clearing the way for states to use it again.](#)
  - [The Biden administration is expected to share AstraZeneca doses with other nations after a safety review.](#)
  - [U.S. Is Under Pressure to Release Vaccine Supplies as India Faces Deadly Surge](#)
  - [Despite a billion vaccine shots given, Covid-19 runs rampant in much of the world.](#)
  - [Vaccines Are Effective Against the New York Variant, Studies Find](#)
  - [Millions Are Skipping Their Second Doses of Covid Vaccines](#)
  - [A troubled vaccine manufacturer, Emergent BioSolutions, projects record revenues.](#)
  - [How Pfizer Makes Its Covid-19 Vaccine](#)
  - [In U.S., Virus Cases Have Recently Dropped in Over Half of States](#)
  - [Covid on the Border: Migrants Aren't Tested on Arrival in U.S.](#)
  - [Michigan's Covid Wards Are Filling Up With Younger Patients](#)
  - [Patients With Long Covid Face Lingering Worrisome Health Risks, Study Finds](#)
  - [How Covid Upended a Century of Patterns in U.S. Deaths](#)
  - [Is a variant to blame for India's deepening Covid-19 crisis?](#)
  - [E.U. Set to Let Vaccinated U.S. Tourists Visit This Summer](#)
  - [100 U.S. colleges will require vaccinations to attend in-person classes in the fall.](#)
  - [No Burning Man festival again this year because of the pandemic, organizers say.](#)
  - [Joy, Love, Grief': What It Looks Like When Families Reunite](#)
  - [The C.D.C. eased mask-wearing advice for vaccinated people outdoors, but stopped short of saying the masks can be shed altogether.](#)
  - [Mask On or Off? Life Is Getting Back to Normal, and We're Rusty.](#)
  - [Mask Rules Are Relaxed. New Yorkers, Not So Much.](#)
- *The Washington Post*
  - [CDC says fully vaccinated Americans can go without masks outdoors, except in crowded settings](#)
  - [Vaccinated? Great. But wear a mask when indoors or in crowds, experts say.](#)
  - [The public's concerns over the Johnson & Johnson coronavirus vaccine is widespread, Post-ABC poll finds](#)





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- [Opinion: It's good to resume the J&J vaccine. But younger women should be warned against it.](#)
- [Widespread coronavirus surveillance testing at schools is a bad idea](#)
- [Burned out by their profession, 3 in 10 health-care workers consider leaving the profession](#)
- *Politico*
  - [Bidenworld fears many vaccine skeptics may be unreachable. They're trying anyway.](#)
  - [HHS secretary: 'A lot of folks would listen' if Trump made vaccine PSA](#)
  - [States have a new Covid problem: Too much vaccine](#)
- *Kaiser Family Foundation*
  - [Supply vs Demand: When Will the Scales Tip on COVID-19 Vaccination in the U.S.?](#)
- *The Hill*
  - [Biden, Harris, Harry and Meghan added to 'Vax Live: The Concert to Reunite the World'](#)
- *AP News*
  - [Biden pledges to help India amid worsening crisis; U.S. to share 60 million vaccine doses with the world](#)
  - [COVID-19 hospitalizations tumble among US senior citizens](#)
- *Delaware News Journal*
  - [It all starts with a knock for this Delaware doctor taking COVID-19 vaccinations to doorsteps](#)
- *Forbes*
  - ['It's A Real Lifesaver': Trump Gives Strongest Endorsement Of Covid-19 Vaccines Yet](#)
- *Endpoint News*
  - [Moderna turbocharges its supply chain, upping commitment to 3B doses per year for a future where boosters are likely](#)
- *Fierce Pharma*
  - [Just how much COVID-19 vaccine money is on the table? A whopping \\$157B through 2025, report says](#)
- *National Geographic*
  - [Coronavirus in the U.S.: Where cases are growing and declining](#)
- *NBC News*
  - [In Michigan, a record-breaking number of children have been hospitalized with Covid](#)
- *KATU News*
  - [15 Oregon counties move into 'extreme' risk category, Governor Brown says](#)
- *9News*
  - [COVID case rates spiking among children, much higher in counties with low vaccination rates](#)
- *Intelligencer*
  - [Shots in Little Arms: When Can Kids Get the Vaccine?](#)
- *Nature News*
  - [COVID vaccines and kids: five questions as trials begin](#)
  - [One million coronavirus sequences: popular genome site hits mega milestone](#)
- *The Atlantic*
  - [We Are Turning COVID-19 Into a Young Person's Disease](#)
- *CNBC*
  - [Pfizer's new at-home pill to treat Covid could be available by end of the year, CEO hopes](#)
  - [Unemployed Americans struggle to get promised free health insurance in pandemic](#)







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- [New Covid variant detected at Texas A&M lab shows signs of antibody resistance and more severe illness in young people](#)
- *New York Post*
  - [77 Iowa inmates received overdoses of COVID vaccine](#)
- *AXIOS*
  - [Americans will likely have to navigate a maze of vaccine "passports"](#)
  - [Political leanings sway seniors' vaccine enthusiasm](#)
  - [Washington state enters 4th COVID-19 surge, says governor](#)
- *NPR*
  - [CDC Director Recommends Pregnant People Receive COVID-19 Vaccines](#)
  - [Biden Administration Looks For Help With Next Phase Of Pitching COVID Vaccines](#)
  - [How Schools Can Help Kids Heal After A Year Of 'Crisis And Uncertainty'](#)
  - [How A U.K. Imam Countered Vaccine Hesitancy And Helped Thousands Get The 'Jab'](#)
  - [West Virginia Will Pay Young People \\$100 To Get Vaccinated Against COVID-19](#)
  - [Outpacing The U.S., Hard-Hit Navajo Nation Has Vaccinated More Than Half Of Adults](#)
  - [U.S. Pledges Medical Aid To India, Where COVID-19 Is Overwhelming Hospitals](#)
  - [An Unexpected Pandemic Side Effect In Peru: A Comeback For TB](#)
  - [How India Went From A Ray Of Hope To A World Record For Most COVID Cases In A Day](#)
- *Doctors Without Borders*
  - [COVID in India: MSF resumes emergency COVID-19 activities in response to second wave](#)
- *Bloomberg*
  - [Even Record Death Toll May Hide Extent of India's Covid Crisis](#)
- *The Wall Street Journal*
  - [India Will Get Covid-19 Test Kits, Protective Gear From U.S. as Cases Surge](#)
  - [China Considers Boosting Covid-19 Vaccine Efficacy. Mixing Is One Way.](#)
  - [Brazil Covid-19 Variant Tears Through South America in Warning to World](#)
- *The Guardian*
  - [Brazil begins parliamentary inquiry into Bolsonaro's Covid response](#)
- *CBS News*
  - [COVID-19 drug studies look at repurposed drugs](#)
  - [COVID-19 vaccine hesitancy ticks down but many remain opposed - CBS News poll](#)
- *CNN*
  - [Alaska Airlines bans state lawmaker for her 'continued refusal to comply' with mask mandate](#)
  - [Miami private school asks teachers not to get Covid-19 vaccine or they won't be allowed to return next year](#)
- *Reuters*
  - [New U.S. COVID cases fall sharply last week, deaths lowest since October](#)
  - [British regulator says AstraZeneca COVID shot clots rise to 168](#)
  - [UK survey finds rising unease about AstraZeneca COVID-19 vaccine](#)
  - [Novartis CEO says could boost CureVac vaccine production, if needed](#)
  - [Taiwan evacuates hotel to sterilise it after rare COVID outbreak](#)
- *Medpage Today*
  - [In Israel, Life Gets Closer to 'Normal'](#)
  - [How to Stop Anti-Science — Science literacy isn't watching YouTube](#)
  - [COVID Vaccines More Available, but Mostly Not in Doctors' Offices](#)





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- *ABC News*
  - [Paris perfumers help COVID-19 long-haulers regain their sense of smell](#)
- *STAT News*
  - [Real-world data, not predictions, should drive decisions on Covid-19 and school opening](#)
- *Scientific American*
  - [How Real-World Data Can Help Us Better Prepare for the Next Pandemic](#)
  - [COVID Has Created a Perfect Storm for Fringe Science](#)
  - [What's Causing Michigan's COVID Surge, and Who's Getting Sick?](#)
- *Vox*
  - [We now have a solution to Covid-19 hot spots. Let's use it.](#)
- *SciTechDaily*
  - [How COVID-19 Worms Its Way Into the Brain – Explaining Baffling Neurological Symptoms](#)
- *JAMA Medical News and Perspectives*
  - [COVID-19 and the “Lost Year” for Smokers Trying to Quit](#)
- *Huffpost*
  - [COVID-19 Variants: Here's How The Vaccines Still Protect You](#)
- *AAMC*
  - [Is herd immunity closer than we think?](#)
- *Science History Institute Distillations*
  - [Quacks, Plagues, and Pandemics](#)
- *Institut Pasteur Press Releases*
  - [SARS-COV-2: INFECTION INDUCES ANTIBODIES CAPABLE OF KILLING INFECTED CELLS REGARDLESS OF DISEASE SEVERITY](#)
- *Appili Press Releases*
  - [Avigan® / REEQONUS™ \(favipiravir\): A Broad-Spectrum Antiviral and Potential Therapeutic for COVID-19](#)
- *Los Angeles Times*
  - [In dramatic turnaround, California now has the lowest coronavirus case rate in the U.S.](#)
  - [California's COVID-19 vaccination pace slowed after Johnson & Johnson pause, data show](#)
  - [‘We’re coming for you’: Public health officials endure a year of extremist threats](#)
  - [Bodies pile up as vaccine campaigns sputter and COVID-19 variants spread](#)
  - [Drop in COVID vaccine demand, and willingness, has some places turning down doses](#)
- *KQED*
  - [San Joaquin County Reports Major Drop in COVID Hospitalizations](#)
  - [UC And Cal State Systems To Require COVID-19 Vaccinations For In-Person Fall Classes](#)
- *Palo Alto Online*
  - [Stanford to require COVID-19 vaccination for students this fall](#)
- *Santa Clara County Public Health*
  - [One Million Residents of Santa Clara County Have Received at Least One Dose of Vaccine](#)
- *San Francisco Chronicle*
  - [J&J vaccine OKd for use in California, 3 neighboring states after 11-day pause](#)
  - [CDC, FDA lift Johnson & Johnson vaccine pause, Bay Area may resume one-dose shots soon](#)
  - [Coronavirus infections slowing sharply across California as vaccines take hold](#)
  - [California follows CDC in relaxing outdoors mask guidance for vaccinated people](#)





SAN MATEO COUNTY HEALTH

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- [Why California has lowest COVID case rate in continental U.S. as Michigan sees new surge](#)
- *SFGate*
  - [8 Bay Area counties issue joint statement on safety of Johnson & Johnson vaccine](#)
  - [UCSF treats first instance of a man developing blood clot after J&J vaccine](#)
  - [UCSF doctor weighs in on new COVID variant identified in Texas](#)
- *Mercury News*
  - [At-home COVID-19 test arrives in the Bay Area](#)

### EPIDEMIOLOGY UPDATES

- **CDC COVID Data Tracker**
  - [United States COVID-19 Cases and Deaths by State](#)
  - [CDC COVID Data Tracker: Vaccinations](#)
  - [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 April 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](#)
- [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](#)

