



COVID-19 Digest Issue 66

November 19, 2021

CLINICAL PEARL

- **People who are moderately and severely immunocompromised and COVID-19 vaccine booster doses**
 - [According to recently updated CDC guidance](#), moderately and severely immunocompromised people aged ≥ 18 years who completed an **mRNA COVID-19 vaccine primary series and received an additional mRNA vaccine dose *may*** receive a single COVID-19 booster dose (Pfizer-BioNTech, Moderna, or Janssen) **at least 6 months after completing their third mRNA vaccine dose. In such situations, people who are moderately and severely immunocompromised may receive a total of four COVID-19 vaccine doses.**
 - A person who is moderately or severely immunocompromised and has received two doses of an mRNA vaccine and ≥ 28 days has elapsed since the second dose, ***should receive an additional mRNA dose immediately*** (if Moderna COVID-19 vaccine is used, administer **100 μ g** in 0.5ml), followed ≥ 6 months later by a **single COVID-19 vaccine booster dose** (if Moderna vaccine booster is used, administer **50 μ g** in 0.25ml).
 - Moderately and severely immunocompromised people aged ≥ 18 years who received a **single dose Janssen COVID-19 vaccine primary series *should*** receive a single COVID-19 booster vaccine (Pfizer-BioNTech, Moderna or Janssen) at least 2 months (8 weeks) after receiving their initial Janssen primary dose. If the Moderna vaccine is used in this circumstance, the booster dose and dose volume should be used (**50 μ g** in 0.25ml). A patient's clinical team is best positioned to determine the appropriate timing of vaccination. **A person who received one primary dose of Janssen COVID-19 vaccine should not receive more than two COVID-19 vaccine doses** as detailed in [Appendix A](#).

PUBLIC HEALTH UPDATES

- [NIH Long-term study of children with COVID-19 begins](#)
- [FDA Authorizes Pfizer-BioNTech COVID-19 Vaccine for Emergency Use in Children 5 through 11 Years of Age](#)
- [Biden Administration Announces Additional Actions to Increase COVID-19 Screening Testing in Schools and Keep Students Safe](#)
- [FDA Takes Additional Actions on the Use of a Booster Dose for COVID-19 Vaccines](#)
- [New HHS Actions Add to Biden Administration Efforts to Increase Access to Easy-to-Use Over-the-Counter COVID-19 Tests](#)
- [FDA: Ellume Recalls COVID-19 Home Test for Potential False Positive SARS-CoV-2 Test Results](#)
- [CDC Confirms New Delta Subtype 'AY.4.2' Has Been Identified in The US](#)
- [Delta sub-lineage AY.4.2 designated as a Variant Under Investigation by UK Health Security Agency](#)

GUIDELINES/GUIDANCE

- CDC [Science Brief: SARS-CoV-2 Infection-induced and Vaccine-induced Immunity](#)
- CDPH [Updated Testing Guidance](#)
- CDPH Letter to Local Health Jurisdictions and Providers on [Booster Messaging](#)





COVID-19 Digest Issue 66

RESOURCES

- Clinician Outreach and Communication Activity (COCA) Call:
 - [Pediatric COVID-19 Vaccines: CDC's Recommendations for Pfizer-BioNTech COVID-19 Vaccine Primary Series in Children 5–11 Years Old](#)
 - [What Clinicians, Pharmacists, and Public Health Partners Need to Know about Antibiotic Prescribing and COVID-19](#)
- CDC/IDSA COVID-19 Clinician Call:
 - [The Latest on COVID-19 Vaccination in Children Ages 5-11](#)
 - [COVID-19 Vaccine Boosters, the Immune Compromised & Protecting the Most Vulnerable](#)
- IDSA Media Briefing:
 - [COVID Testing: Who? When? Why?](#)
 - [COVID-19 Therapies Lessons Learned](#)
- IDSA Podcast:
 - [Will Employer Vaccine Mandates Help Bring the COVID-19 Pandemic to an End?](#)
 - [Vaccine Boosters Versus The Delta Variant](#)
- Center for Infectious Disease Research and Policy (CIDRAP) Osterholm Update:
 - [Episode 74: Implement, Study, Learn](#)
 - [Episode 75: Evolving Science](#)
 - [Episode 76: Vaccines in the World of Delta](#)
 - [Episode 77: A Booster Dose of Humility](#)
- Stanford Department of Medicine Grand Rounds: [The Ghost of SARS-CoV 2](#)
- Point of Care [Special Considerations in Cardiology: The Era of Covid-19](#)
- [Children and COVID-19: State-Level Data Report \(New data!\)](#)
- [GISEAD COVID-19 lineages and variants](#)
- *Kaiser Family Foundations*
 - [KFF COVID-19 Vaccine Monitor: Media and Misinformation](#)
 - [KFF COVID-19 Vaccine Monitor: October 2021](#)
- *National Academy of Medicine*
 - [Countering the Pandemic Threat through Global Coordination on Vaccines: The Influenza Imperative](#)
 - [Vaccine Research and Development to Advance Pandemic and Seasonal Influenza Preparedness and Response: Lessons from COVID-19](#)
 - [Public Health Lessons for Non-Vaccine Influenza Interventions: Looking Past COVID-19](#)
 - [Globally Resilient Supply Chains for Seasonal and Pandemic Influenza Vaccines](#)

ACADEMIC/RESEARCH PAPERS

- *New England Journal of Medicine*
 - [Evaluation of the BNT162b2 Covid-19 Vaccine in Children 5 to 11 Years of Age](#)
 - [BNT162b2 and ChAdOx1 nCoV-19 Vaccine Effectiveness against Death from the Delta Variant](#)
 - [Effectiveness of BNT162b2 Vaccine against Delta Variant in Adolescents](#)
 - [Covid-19 Vaccination during Pregnancy and First-Trimester Miscarriage](#)
 - [Waning Immunity after the BNT162b2 Vaccine in Israel](#)





COVID-19 Digest Issue 66

- [Early Treatment for Covid-19 with SARS-CoV-2 Neutralizing Antibody Sotrovimab](#)
- [Toxic Effects from Ivermectin Use Associated with Prevention and Treatment of Covid-19](#)
- *medRxiv*
 - [Heterologous SARS-CoV-2 Booster Vaccinations – Preliminary Report](#)
 - [Year-long COVID-19 infection reveals within-host evolution of SARS-CoV-2 in a patient with B cell depletion](#)
 - [Breastfeeding infants receive neutralizing antibodies and cytokines from mothers immunized with a COVID-19 mRNA vaccine](#)
 - [Long-term predictions of humoral immunity after two doses of BNT162b2 and mRNA-1273 vaccines based on dosage, age and sex](#)
- *The Lancet*
 - [Effectiveness of a third dose of the BNT162b2 mRNA COVID-19 vaccine for preventing severe outcomes in Israel: an observational study](#)
 - [T-cell and antibody responses to first BNT162b2 vaccine dose in previously infected and SARS-CoV-2-naive UK health-care workers: a multicentre prospective cohort study](#)
 - [Community transmission and viral load kinetics of the SARS-CoV-2 delta \(B.1.617.2\) variant in vaccinated and unvaccinated individuals in the UK: a prospective, longitudinal, cohort study](#)
 - [Long-term use of immunosuppressive medicines and in-hospital COVID-19 outcomes: a retrospective cohort study using data from the National COVID Cohort Collaborative](#)
 - [An observational study of breakthrough SARS-CoV-2 Delta variant infections among vaccinated healthcare workers in Vietnam](#)
 - [Efficacy, safety, and lot-to-lot immunogenicity of an inactivated SARS-CoV-2 vaccine \(BBV152\): interim results of a randomised, double-blind, controlled, phase 3 trial](#)
 - [Estimating the early impact of the US COVID-19 vaccination programme on COVID-19 cases, emergency department visits, hospital admissions, and deaths among adults aged 65 years and older: an ecological analysis of national surveillance data](#)
 - [Effect of early treatment with flvoxamine on risk of emergency care and hospitalisation among patients with COVID-19: the TOGETHER randomised, platform clinical trial](#)
 - [Efficacy of interferon beta-1a plus remdesivir compared with remdesivir alone in hospitalised adults with COVID-19: a double-blind, randomised, placebo-controlled, phase 3 trial](#)
 - [Colchicine in patients admitted to hospital with COVID-19 \(RECOVERY\): a randomised, controlled, open-label, platform trial](#)
 - [Risk factors for poor prognosis in children and adolescents with COVID-19: A systematic review and meta-analysis](#)
- *Pediatrics*
 - [Deaths in Children and Adolescents Associated With COVID-19 and MIS-C in the United States](#)
- *JAMA*
 - [The Role of Face Masks in the Recognition of Emotions by Preschool Children](#)
 - [Experiences of Work-Family Conflict and Mental Health Symptoms by Gender Among Physician Parents During the COVID-19 Pandemic](#)
 - [Durability of Antibody Levels After Vaccination With mRNA SARS-CoV-2 Vaccine in Individuals With or Without Prior Infection](#)
 - [Analysis of the Effectiveness of the Ad26.COVS Adenoviral Vector Vaccine for Preventing COVID-19](#)
 - [Age- and Sex-Specific Incidence of Cerebral Venous Sinus Thrombosis Associated With Ad26.COVS COVID-19 Vaccination](#)





COVID-19 Digest Issue 66

- [Association Between mRNA Vaccination and COVID-19 Hospitalization and Disease Severity](#)
- [Vaccination Status and the Detection of SARS-CoV-2 Infection in Health Care Personnel Under Surveillance in Long-term Residential Facilities](#)
- [Association of Prior SARS-CoV-2 Infection With Risk of Breakthrough Infection Following mRNA Vaccination in Qatar](#)
- [Association of Self-reported High-Risk Allergy History With Allergy Symptoms After COVID-19 Vaccination](#)
- [Protective Behaviors Against COVID-19 by Individual Vaccination Status in 12 Countries During the Pandemic](#)
- [Quantifying and Benchmarking Disparities in COVID-19 Vaccination Rates by Race and Ethnicity](#)
- [Guaranteed Financial Incentives for COVID-19 Vaccination – A Pilot Program in North Carolina](#)
- [Association Between COVID-19 Diagnosis and In-Hospital Mortality in Patients Hospitalized With ST-Segment Elevation Myocardial Infarction](#)
- [Association of Sleep-Related Hypoxia With Risk of COVID-19 Hospitalizations and Mortality in a Large Integrated Health System](#)
- [Incidence of SARS-CoV-2 Infection Among Health Care Personnel, First Responders, and Other Essential Workers During a Pre vaccination COVID-19 Surge in Arizona](#)
- [Association of Self-reported COVID-19 Infection and SARS-CoV-2 Serology Test Results With Persistent Physical Symptoms Among French Adults During the COVID-19 Pandemic](#)
- [Association of University Student Gatherings With Community COVID-19 Infections Before and After the NCAA March Madness Tournament](#)
- [Association Between Tumor Necrosis Factor Inhibitors and the Risk of Hospitalization or Death Among Patients With Immune-Mediated Inflammatory Disease and COVID-19](#)
- [Racial and Ethnic Disparities in Rates of COVID-19–Associated Hospitalization, Intensive Care Unit Admission, and In-Hospital Death in the United States From March 2020 to February 2021](#)
- [Assessment of Cognitive Function in Patients After COVID-19 Infection](#)
- [Disparities in COVID-19 Outcomes by Race, Ethnicity, and Socioeconomic Status – A Systematic-Review and Meta-analysis](#)
- [Mortality Risk Among Patients With COVID-19 Prescribed Selective Serotonin Reuptake Inhibitor Antidepressants](#)
- [Evaluation of COVID-19 Mortality and Adverse Outcomes in US Patients With or Without Cancer](#)
- *Journal of Clinical Oncology*
 - [Immunogenicity and Reactogenicity of SARS-CoV-2 Vaccines in Patients With Cancer: The CANVAX Cohort Study](#)
- *Science*
 - [COVID-19 mRNA vaccines drive differential antibody Fc-functional profiles in pregnant, lactating, and nonpregnant women](#)
 - [SARS-CoV-2 vaccine protection and deaths among US veterans during 2021](#)
 - [Maternal SARS-CoV-2 infection elicits sexually dimorphic placental immune responses](#)
 - [A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice](#)
 - [Replication and single-cycle delivery of SARS-CoV-2 replicons](#)
- *Nature*
 - [BNT162b2 and mRNA-1273 COVID-19 vaccine effectiveness against the SARS-CoV-2 Delta variant in Qatar](#)
 - [Neurological complications after first dose of COVID-19 vaccines and SARS-CoV-2 infection](#)





COVID-19 Digest Issue 66

- [A global effort to dissect the human genetic basis of resistance to SARS-CoV-2 infection](#)
- [COVID-19 vaccine acceptance among adults in four major US metropolitan areas and nationwide](#)
- [Rather than inducing psychological reactance, requiring vaccination strengthens intentions to vaccinate in US populations](#)
- [A novel SARS-CoV-2 related coronavirus in bats from Cambodia](#)
- [Oil immersed lossless total analysis system for integrated RNA extraction and detection of SARS-CoV-2](#)
- [Dexamethasone modulates immature neutrophils and interferon programming in severe COVID-19](#)
- [The SARS-CoV-2 main protease Mpro causes microvascular brain pathology by cleaving NEMO in brain endothelial cells](#)
- [Imaging intact human organs with local resolution of cellular structures using hierarchical phase-contrast tomography](#)
- [Accurate long-range forecasting of COVID-19 mortality in the USA](#)
- [Potentially long-lasting effects of the pandemic on scientists](#)
- *PLOS*
 - [Anxiety and depression among medical doctors in Catalonia, Italy, and the UK during the COVID-19 pandemic](#)
 - [Surviving SARS and living through COVID-19: Healthcare worker mental health outcomes and insights for coping](#)
 - [Exhaled nitric oxide detection for diagnosis of COVID-19 in critically ill patients](#)
- *The Journal of Infectious Diseases*
 - [Monoclonal Antibody Treatment of Breakthrough COVID-19 in Fully Vaccinated Individuals with High-Risk Comorbidities](#)
- *Open Forum Infectious Diseases*
 - [Bamlanivimab efficacy in older and high BMI outpatients with Covid-19 selected for treatment in a lottery-based allocation process](#)
- *Clinical Infectious Diseases*
 - [Infectious Diseases Society of America Guidelines on Infection Prevention for Healthcare Personnel Caring for Patients with Suspected or Known COVID-19](#)
- *Infection Control and Hospital Epidemiology*
 - [The impact of coronavirus disease 2019 \(COVID-19\) on healthcare-associated infections in 2020: A summary of data reported to the National Healthcare Safety Network](#)
- *Emerging Infectious Diseases*
 - [Effectiveness of BNT162b2 Vaccine in Adolescents during Outbreak of SARS-CoV-2 Delta Variant Infection, Israel, 2021](#)
 - [Influenza and SARS-CoV-2 Co-infections in California, USA, September 2020–April 2021](#)
 - [COVID-19 Vaccination Coverage, Intent, Knowledge, Attitudes, and Beliefs among Essential Workers, United States](#)
 - [Association of Shared Living Spaces and COVID-19 in University Students, Wisconsin, USA, 2020](#)
 - [Interventions to Disrupt Coronavirus Disease Transmission at a University, Wisconsin, USA, August–October 2020](#)
 - [Probability-Based Estimates of Severe Acute Respiratory Syndrome Coronavirus 2 Seroprevalence and Detection Fraction, Utah, USA](#)
 - [Effectiveness of Abbott BinaxNOW Rapid Antigen Test for Detection of SARS-CoV-2 Infections in Outbreak among Horse Racetrack Workers, California, USA](#)





COVID-19 Digest Issue 66

- [Postmortem Antigen-Detecting Rapid Diagnostic Tests to Predict Infectivity of SARS-CoV-2–Associated Death](#)
- [Correlation of SARS-CoV-2 Subgenomic RNA with Antigen Detection in Nasal Midturbinate Swab Specimens](#)
- [Policy Review and Modeling Analysis of Mitigation Measures for Coronavirus Disease Epidemic Control, Health System, and Disease Burden, South Korea](#)
- [Real-Time Genomic Surveillance for SARS-CoV-2 Variants of Concern, Uruguay](#)
- [Bordetella hinzii Pneumonia and Bacteremia in a Patient with SARS-CoV-2 Infection](#)
- [Seroprevalence of SARS-CoV-2–Specific Antibodies among Quarantined Close Contacts of COVID-19 Patients, Faroe Islands, 2020](#)
- [Rapid Increase in SARS-CoV-2 P.1 Lineage Leading to Codominance with B.1.1.7 Lineage, British Columbia, Canada, January–April 2021](#)
- [Mutations Associated with SARS-CoV-2 Variants of Concern, Benin, Early 2021](#)
- [Prevalence of SARS-CoV-2 Antibodies after First 6 Months of COVID-19 Pandemic, Portugal](#)
- [Co-infection with Legionella and SARS-CoV-2, France, March 2020](#)
- [Resurgence of Respiratory Syncytial Virus Infections during COVID-19 Pandemic, Tokyo, Japan](#)
- [Online Registry of COVID-19–Associated Mucormycosis Cases, India, 2021](#)
- [Socioeconomic Patterns of COVID-19 Clusters in Low-Incidence City, Hong Kong](#)
- [Fatal Co-infections with SARS-CoV-2 and Legionella pneumophila, England](#)
- *Annals of Internal Medicine*
 - [Comparative Effectiveness of an Automated Text Messaging Service for Monitoring COVID-19 at Home](#)
- *BMJ*
 - [Effects of covid-19 pandemic on life expectancy and premature mortality in 2020: time series analysis in 37 countries](#)
 - [The influence of gender and ethnicity on facemasks and respiratory protective equipment fit: a systematic review and meta-analysis](#)
- *The Journal of Clinical Investigation*
 - [Chitinase 3-like-1 is a therapeutic target that mediates the effects of aging in COVID-19](#)
- *Influenza and Other Respiratory Viruses*
 - [Clinical manifestations of COVID-19 differ by age and obesity status](#)
- *Thrombosis Research*
 - [Lupus anticoagulant is an independent risk factor for non-thrombotic in-hospital mortality in COVID-19 patients](#)
- *Journal of Thrombosis and Thrombolysis*
 - [The role of lipoprotein\(a\) in coronavirus disease 2019 \(COVID-19\) with relation to development of severe acute kidney injury](#)
- *European Journal of Clinical Investigation*
 - [Myocardial injury in patients with SARS-CoV-2 pneumonia: pivotal role of inflammation in COVID-19](#)
- *Cardiovascular Research*
 - [Low-molecular-weight heparin use in coronavirus disease 2019 is associated with curtailed viral persistence: a retrospective multicentre observational study](#)
- *JACC Cardiovascular Imaging*
 - [Prospective Case-Control Study of Cardiovascular Abnormalities 6 Months Following COVID-19 in Healthcare Workers](#)





COVID-19 Digest Issue 66

- *JAC – Antimicrobial Resistance*
 - [A retrospective antibiotic prescribing assessment and examination of potential antibiotic stewardship targets in patients with COVID-19](#)
- *Scandinavian Journal of Work, Environment and Health*
 - [COVID-19 mortality across occupations and secondary risks for elderly individuals in the household: A population register-based study](#)
- *Metabolism, Obesity and Diabetes*
 - [Audit of Clinical Outcomes with Dexamethasone in Patients Hospitalised with COVID-19](#)
- *bioRxiv*
 - [Plant-based production of SARS-CoV-2 antigens for use in a subunit vaccine](#)
 - [Multiple spillovers and onward transmission of SARS-CoV-2 in free-living and captive white-tailed deer](#)
- *Vet Record*
 - [Infection with SARS-CoV-2 variant B.1.1.7 detected in a group of dogs and cats with suspected myocarditis](#)

MMWR

- [The Advisory Committee on Immunization Practices' Interim Recommendation for Use of Pfizer-BioNTech COVID-19 Vaccine in Children Aged 5–11 Years — United States, November 2021](#)
- [The Advisory Committee on Immunization Practices' Interim Recommendations for Additional Primary and Booster Doses of COVID-19 Vaccines — United States, 2021](#)
- [Effectiveness of 2-Dose Vaccination with mRNA COVID-19 Vaccines Against COVID-19–Associated Hospitalizations Among Immunocompromised Adults — Nine States, January–September 2021](#)
- [Effectiveness of Pfizer-BioNTech mRNA Vaccination Against COVID-19 Hospitalization Among Persons Aged 12–18 Years — United States, June–September 2021](#)
- [COVID-19 Vaccination and Non–COVID-19 Mortality Risk — Seven Integrated Health Care Organizations, United States, December 14, 2020–July 31, 2021](#)
- [Laboratory-Confirmed COVID-19 Among Adults Hospitalized with COVID-19–Like Illness with Infection-Induced or mRNA Vaccine-Induced SARS-CoV-2 Immunity — Nine States, January–September 2021](#)
- [Severity of Disease Among Adults Hospitalized with Laboratory-Confirmed COVID-19 Before and During the Period of SARS-CoV-2 B.1.617.2 \(Delta\) Predominance — COVID-NET, 14 States, January–August 2021](#)
- [Influenza Vaccinations During the COVID-19 Pandemic — 11 U.S. Jurisdictions, September–December 2020](#)

HOT OFF THE (LAY) PRESS

- *New York Times*
 - [The F.D.A plans to authorize Pfizer boosters for all adults as soon as Thursday](#)
 - [Pfizer will allow its Covid treatment pill to be made and sold inexpensively in 95 poorer nations. A similar deal was made by Merck last month.](#)
 - [The White House plans to spend billions expanding Covid vaccine manufacturing in the U.S. and boosting supplies in the developing world.](#)
 - [A federal appeals court kept in place a block on the Biden administration's Covid vaccine mandate for workers at large companies.](#)
 - [Dozens of N.Y.C. sanitation workers were suspended during an inquiry into the use of fake vaccine cards.](#)
 - [U.S. Covid upswing](#)





COVID-19 Digest Issue 66

- [How Bad Could California's Winter Coronavirus Surge Get?](#)
- [She Died With Long Covid. Should Her Organs Have Been Donated?](#)
- [The first known Covid patient was a vendor at a Wuhan market, a new report claims. The finding may revive debate over how the pandemic began.](#)
- [Small Needles and Short Lines: Biden's Plan to Vaccinate Young Children](#)
- [Merck Will Share Formula for Its Covid Pill With Poor Countries](#)
- [Britain approved Merck's antiviral drug molnupiravir, making it the first pill to be endorsed for treating Covid patients.](#)
- *Medicines Patent Pool Press Releases*
 - [The Medicines Patent Pool \(MPP\) and MSD enter into licence agreement for molnupiravir, an investigational oral antiviral COVID-19 medicine, to increase broad access in low- and middle- income countries](#)
- *European Medicines Agency*
 - [EMA starts rolling review of molnupiravir](#)
- *Reuters*
 - [U.S. brokers J&J-COVAX deal to send vaccines to conflict zones -Blinken](#)
 - [Netherlands returns to partial lockdown amid COVID-19 surge](#)
- *The Washington Post*
 - [Europe's surge in coronavirus cases prompts restrictions, lockdowns](#)
 - [Biden administration to buy Pfizer antiviral pills for 10 million people, hoping to transform pandemic](#)
 - [Top Biden health officials push to make coronavirus booster shots available to all adults](#)
 - [Booster shots are most popular in poorly vaccinated states where coronavirus rages](#)
 - [Pfizer-BioNTech expected to seek authorization for coronavirus booster for people 18 and older](#)
 - [In secret vaccine contracts with governments, Pfizer took hard line in push for profit, report says](#)
 - [CDC finds immunity from vaccines is more consistent than from infection, but both last at least six months](#)
 - [Vaccine eligibility for mood disorders underscores elevated covid risk](#)
- *Politico*
 - [Biden plan to make unvaccinated workers pay for Covid testing could backfire](#)
- *Business Insider*
 - [Democrats are asking Biden to mandate that airlines require passengers to be fully vaxxed for COVID-19 before flying](#)
- *AP News*
 - [19 states sue Biden administration over COVID vaccine rule](#)
 - [Africa tries to end vaccine inequity by replicating its own](#)
 - [China to start vaccinating children to age 3 as cases spread](#)
- *Bloomberg*
 - [Chinese Virus Expert Launches Scathing Attack on Covid Zero Push](#)
 - [Pediatric Hospital Visits Plunge in U.S. As Schools Reopen](#)
- *AXIOS*
 - [Axios-Ipsos poll: No widespread COVID school backlash](#)
- *BMJ News*
 - [Long covid: One in seven children may still have symptoms 15 weeks after infection, data show](#)
- *US News*
 - [Biden Administration Presses Schools to Provide COVID Shots to Kids](#)
 - [US Intel Doesn't Expect to Determine Origins of COVID-19](#)





COVID-19 Digest Issue 66

- *The Wall Street Journal*
 - [FDA Delays Moderna Covid-19 Vaccine for Adolescents to Review Rare Myocarditis Side Effect](#)
 - [Challenges to Biden Vaccine Rules Will Come Before Ohio-Based U.S. Appeals Court](#)
- *NBC News*
 - [Biden administration announces plan to speed authorization of at-home Covid tests](#)
- *The Hill*
 - [Critics say Congress falling short on pandemic preparedness](#)
- *The Economists*
 - [People with covid jabs have been less likely to die of other causes](#)
- *Live Science*
 - [A version of this gene doubles the risk of dying from COVID-19](#)
- *Scientific American*
 - [COVID Vaccine Makers Prepare for a Variant Worse Than Delta](#)
- *Science Alert*
 - [A Massive Global Syringe Shortage Could Hit in 2022, WHO Warns](#)
 - [Needle-Free Vaccine Patches Are Just a Matter of Time Now, Latest Results Indicate](#)
- *EurekaAlert*
 - [HSS study identifies risk factors for “long-haul” COVID-19 in people with rheumatic diseases](#)
 - [Depression and anxiety worsened during the pandemic, putting patients at higher heart disease risk, study finds](#)
 - [Hospitals sustained huge financial losses from lost revenues during COVID-19 pandemic as patients lost timely access to surgical services](#)
- *CNN*
 - [How Puerto Rico became the most vaccinated place in America](#)
- *NPR*
 - [All adults can get a COVID vaccine booster in California, not just those CDC listed](#)
 - [Health workers in China are killing pets while their owners are in quarantine](#)
 - [Times Square will welcome back vaccinated revelers this New Year's Eve](#)
- *The Atlantic*
 - [Is Moderna Really Better Than Pfizer—Or Is It Just a Higher Dose?](#)
- *Moderna Press Releases*
 - [Moderna Announces Positive Top Line Data from Phase 2/3 Study of COVID-19 Vaccine in Children 6 to 11 Years of Age](#)
 - [Moderna Provides Update on Timing of U.S. Emergency Use Authorization of its COVID-19 Vaccine for Adolescents](#)
 - [Moderna Files to Expand the Conditional Marketing Authorization for its COVID-19 Vaccine in the European Union to Include Children Ages 6-11 Years](#)
- *Pfizer Press Releases*
 - [PFIZER'S NOVEL COVID-19 ORAL ANTIVIRAL TREATMENT CANDIDATE REDUCED RISK OF HOSPITALIZATION OR DEATH BY 89% IN INTERIM ANALYSIS OF PHASE 2/3 EPIC-HR STUDY](#)
 - [PFIZER AND BIONTECH TO PROVIDE U.S. GOVERNMENT AN ADDITIONAL 50 MILLION PEDIATRIC DOSES OF COVID-19 VACCINE TO SUPPORT FURTHER PREPAREDNESS FOR FUTURE NEEDS](#)
 - [PFIZER AND BIONTECH ANNOUNCE PHASE 3 TRIAL DATA SHOWING HIGH EFFICACY OF A BOOSTER DOSE OF THEIR COVID-19 VACCINE](#)





COVID-19 Digest Issue 66

- [PFIZER AND THE MEDICINES PATENT POOL \(MPP\) SIGN LICENSING AGREEMENT FOR COVID-19 ORAL ANTIVIRAL TREATMENT CANDIDATE TO EXPAND ACCESS IN LOW- AND MIDDLE-INCOME COUNTRIES](#)
- *BioNTech Press Releases*
 - [BioNTech Plans to Initiate the Construction of an mRNA Vaccine Manufacturing Facility in Africa in mid-2022](#)
- *Valneva Press Releases*
 - [Valneva Reports Positive Phase 3 Results for Inactivated, Adjuvanted COVID-19 Vaccine Candidate VLA2001](#)
- *Los Angeles Times*
 - [Confusion reigns over who is eligible for boosters, prompting California to take action](#)
 - [‘Winter is coming,’ Gov. Newsom warns as California’s COVID threat persists](#)
 - [What a COVID-19 pill could mean for California](#)
- *The San Diego Union Tribune*
 - [San Diego scientists are working on a vaccine against all coronaviruses. Yes, all of them](#)

EPIDEMIOLOGY UPDATES

- [CDC COVID Data Tracker](#)
 - [COVID-19 Vaccinations in the United States](#)
- **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 November 19, 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](#)

