



COVID-19 Digest Issue 63

September 14, 2021

CLINICAL PEARL

- [According to the American Academy of Pediatrics and the Children’s Hospital Association’s most recent report dated September 9, 2021,](#) nearly 5.3 million children have tested positive for COVID-19 since the onset of the pandemic. Over 243,000 cases were added the past week, the second highest number of child cases in a week since the pandemic began. After declining in early summer, child cases have increased exponentially, with nearly 500,000 cases in the past 2 weeks. Since the pandemic began, children represented 15.5% of total cumulated cases. For the week ending September 9, children made up 28.9% of reported weekly COVID-19 cases (children under the age of 18 constitute 22.2% of the US population). **At this time, the available data indicate that severe illness due to COVID-19, COVID-19 associated hospitalization and death are uncommon among children.** However, there is an urgent need to collect more data on longer-term impacts of the pandemic on children, including ways the virus may harm the long-term physical health of infected children, as well as its emotional and mental health effects.

PUBLIC HEALTH UPDATES

- American Academy of Pediatrics [Children and COVID-19: State-Level Data Report](#)
- [FDA to Hold Advisory Committee Meeting to Discuss Pfizer-BioNTech’s Application for COVID-19 Booster](#)
- European Centre for Disease Prevention and Control [Interim public health considerations for the provision of additional COVID-19 vaccine doses](#)
- UK [MHRA statement on booster doses of Pfizer and AstraZeneca COVID-19 vaccines](#)
- WHO
 - [Interim statement on COVID-19 vaccine booster doses](#)
 - [Joint COVAX Statement on Supply Forecast for 2021 and early 2022](#)
 - [Eight in 10 African countries to miss crucial COVID-19 vaccination goal](#)
 - [WHO, Germany open Hub for Pandemic and Epidemic Intelligence in Berlin](#)
 - [WHO releases new compendium of innovative health technologies for COVID-19 and other priority diseases](#)
- Office of the Director of National Intelligence [Unclassified Summary of Assessment on COVID-19 Origins](#)

RESOURCES

- CDC [Types of Masks and Respirators](#)
- CDC COCA Webinar:
 - [2021-2022 Influenza Vaccination Recommendations and Guidance on Coadministration with COVID-19 Vaccines](#)
- CDC/IDSA COVID-19 Clinician Call:
 - [Update on COVID-19 in the Pediatric Population - Hosted in partnership with the AAP](#)
- IDSA
 - Media Briefing:
 - [COVID and Workplaces](#)
 - [Vaccines & The Delta Variant](#)
 - [COVID & School Safety](#)
 - Vaccine Education Roundtable:
 - [Reaching Vaccine Hesitant Populations, Part 3](#)





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- [Equitable & Safe Schools — Part 1](#)
- [Equitable & Safe Schools — Part 2](#)
- Podcasts:
 - [Herd Immunity: How Far Back Has the Delta Variant Set Us?](#)
 - [COVID Vaccine as a Condition of Employment for Health Care Workers](#)
- Mayo Clinic Webinar [The Continuing COVID-19 Pandemic: Current Issues and Glimpse Into the Future](#)
- Center for Infectious Disease Research and Policy (CIDRAP) Osterholm Update:
 - [Recalculating Risk](#)
 - [You Can't Run Out the Game Clock](#)
 - [Thank You, Dr. Jena](#)

ACADEMIC/RESEARCH PAPERS

- *New England Journal of Medicine*
 - [Effectiveness of Covid-19 Vaccines in Ambulatory and Inpatient Care Settings](#)
 - [Effect of Vaccination on Transmission of SARS-CoV-2](#)
 - [Covid-19 Vaccine Effectiveness and the Test-Negative Design](#)
 - [Receipt of mRNA Covid-19 Vaccines and Risk of Spontaneous Abortion](#)
 - [On Preliminary Findings of mRNA Covid-19 Vaccine Safety in Pregnant Persons](#)
 - [Preliminary Findings of mRNA Covid-19 Vaccine Safety in Pregnant Persons](#)
- *Nature*
 - [Effectiveness of the BNT162b2 mRNA COVID-19 vaccine in pregnancy](#)
- *The Journal of Infectious Diseases*
 - [mRNA Vaccine Effectiveness against COVID-19 among Symptomatic Outpatients Aged ≥16 Years in the United States, February – May 2021](#)
- *medRxiv*
 - [Comparing SARS-CoV-2 natural immunity to vaccine-induced immunity: reinfections versus breakthrough infections](#)
 - [Comparison of two highly-effective mRNA vaccines for COVID-19 during periods of Alpha and Delta variant prevalence](#)
 - [COVID-19 Projections for K12 Schools in Fall 2021: Significant Transmission without Interventions](#)
- *Annals of Internal Medicine*
 - [Effect of Immunosuppression on the Immunogenicity of mRNA Vaccines to SARS-CoV-2 - A Prospective Cohort Study](#)
- *Eurosurveillance*
 - [Vaccine effectiveness against infection with the Delta \(B.1.617.2\) variant, Norway, April to August 2021](#)
- *JAMA*
 - [Comparison of SARS-CoV-2 Antibody Response Following Vaccination With BNT162b2 and mRNA-1273](#)
 - [Prevalence of Allergic Reactions After Pfizer-BioNTech COVID-19 Vaccination Among Adults With High Allergy Risk](#)
 - [Allergic Reactions After COVID-19 Vaccination—Putting Risk Into Perspective](#)
 - [Rate of Recurrent Guillain-Barré Syndrome After mRNA COVID-19 Vaccine BNT162b2](#)
 - [Surveillance for Adverse Events After COVID-19 mRNA Vaccination](#)





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- [Safety Surveillance of COVID-19 mRNA Vaccines Through the Vaccine Safety Datalink](#)
- [Spontaneous Abortion Following COVID-19 Vaccination During Pregnancy](#)
- [One-Year Outcomes of Critical Care Patients Post-COVID-19 Multisystem Inflammatory Syndrome in Children](#)
- [Characteristics of SARS-CoV-2 Infections in Israeli Children During the Circulation of Different SARS-CoV-2 Variants](#)
- [Changes in Body Mass Index Among Children and Adolescents During the COVID-19 Pandemic](#)
- [The Association Between School Closures and Child Mental Health During COVID-19](#)
- [Factors Associated With Household Transmission of SARS-CoV-2 - An Updated Systematic Review and Meta-analysis](#)
- [Symptoms Reported With New Onset of Loss of Taste or Smell in Individuals With and Without SARS-CoV-2 Infection](#)
- [Estimates of COVID-19 Cases and Deaths Among Nursing Home Residents Not Reported in Federal Data](#)
- [Underreporting of Early Nursing Home COVID-19 Cases and Deaths in Federal Data](#)
- [Association of COVID-19 Lockdown With the Tumor Burden in Patients With Newly Diagnosed Metastatic Colorectal Cancer](#)
- [Eviction Moratoria Expiration and COVID-19 Infection Risk Across Strata of Health and Socioeconomic Status in the United States](#)
- [Inequities in COVID-19 Vaccination Rates in the 9 Largest US Cities](#)
- [Association of Jail Decarceration and Anticontagion Policies With COVID-19 Case Growth Rates in US Counties](#)
- *The Lancet*
 - [Risk factors and disease profile of post-vaccination SARS-CoV-2 infection in UK users of the COVID Symptom Study app: a prospective, community-based, nested, case-control study](#)
 - [Hospital admission and emergency care attendance risk for SARS-CoV-2 delta \(B.1.617.2\) compared with alpha \(B.1.1.7\) variants of concern: a cohort study](#)
 - [Importance of epidemiological factors in the evaluation of transmissibility and clinical severity of SARS-CoV-2 variants](#)
 - [Casirivimab-Imdevimab treatment is associated with reduced rates of hospitalization among high-risk patients with mild to moderate coronavirus disease-19](#)
 - [Efficacy and safety of baricitinib for the treatment of hospitalised adults with COVID-19 \(COV-BARRIER\): a randomised, double-blind, parallel-group, placebo-controlled phase 3 trial](#)
 - [Baricitinib: the first immunomodulatory treatment to reduce COVID-19 mortality in a placebo-controlled trial](#)
 - [Conventional oxygen therapy versus CPAP as a ceiling of care in ward-based patients with COVID-19: a multi-centre cohort evaluation.](#)
- *Clinical Infectious Diseases*
 - [Clinical and virological features of SARS-CoV-2 variants of concern: a retrospective cohort study comparing B.1.1.7 \(Alpha\), B.1.315 \(Beta\), and B.1.617.2 \(Delta\)](#)
 - [SARS-CoV-2 Reinfection: A Case Series from a 12-Month Longitudinal Occupational Cohort](#)
- *Science*
 - [Adaptive immune determinants of viral clearance and protection in mouse models of SARS-CoV-2](#)





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- *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](#)
- *American Journal of Infection Control*
 - [High Rate of Multidrug-Resistant Organisms \(MDROs\) among COVID-19 Patients Presenting with Bacteremia upon Hospital Admission](#)
- *Journal of Antimicrobial Chemotherapy*
 - [Impact of the COVID-19 pandemic on the surveillance, prevention and control of antimicrobial resistance: a global survey](#)
- *Emerging Infectious Diseases*
 - [Breakthrough Infections of E484K-Harboring SARS-CoV-2 Delta Variant, Lombardy, Italy](#)
 - [SARS-CoV-2 Seroprevalence in a Rural and Urban Household Cohort during First and Second Waves of Infections, South Africa, July 2020–March 2021](#)
 - [Fatal Systemic Capillary Leak Syndrome after SARS-COV-2 Vaccination in Patient with Multiple Myeloma](#)
- *PLOS*
 - [COVID-19 vaccines and mental distress](#)
- *Pediatrics*
 - [Medical Admissions Among Adolescents With Eating Disorders During the COVID-19 Pandemic](#)
- *Disaster Medicine and Public Health Preparedness*
 - [Oxygen and Ventilator Logistics during California’s COVID-19 Surge-When Oxygen becomes a Scarce Resource](#)
- *Journal of the American Society of Nephrology*
 - [Kidney Outcomes in Long COVID](#)
- *Journal of Thrombosis and Haemostasis*
 - [Association of Pre-Hospital Antiplatelet Therapy with Survival in Patients Hospitalized with COVID-19: A Propensity Score-Matched Analysis](#)
- *Cell*
 - [The Origins of SARS-CoV-2: A Critical Review](#)

MMWR

- [Interim Estimates of COVID-19 Vaccine Effectiveness Against COVID-19–Associated Emergency Department or Urgent Care Clinic Encounters and Hospitalizations Among Adults During SARS-CoV-2 B.1.617.2 \(Delta\) Variant Predominance — Nine States, June–August 2021](#)
- [Effectiveness of COVID-19 mRNA Vaccines Against COVID-19–Associated Hospitalization — Five Veterans Affairs Medical Centers, United States, February 1–August 6, 2021](#)
- [COVID-19 Vaccination Coverage Among Adolescents Aged 12–17 Years — United States, December 14, 2020–July 31, 2021](#)
- [National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13–17 Years — United States, 2020](#)
- [COVID-19 Case Rates in Transitional Kindergarten Through Grade 12 Schools and in the Community — Los Angeles County, California, September 2020–March 2021](#)
- [Outbreak Associated with SARS-CoV-2 B.1.617.2 \(Delta\) Variant in an Elementary School — Marin County, California, May–June 2021](#)





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- [Trends in COVID-19 Cases, Emergency Department Visits, and Hospital Admissions Among Children and Adolescents Aged 0–17 Years — United States, August 2020–August 2021](#)
- [Hospitalizations Associated with COVID-19 Among Children and Adolescents — COVID-NET, 14 States, March 1, 2020–August 14, 2021](#)
- [Multiple Variants of SARS-CoV-2 in a University Outbreak After Spring Break — Chicago, Illinois, March–May 2021](#)
- [Screening Programs for SARS-CoV-2 Infections on a University Campus — Austin, Texas, September 30–November 30, 2020](#)
- [Epidemiologically Linked COVID-19 Outbreaks at a Youth Camp and Men’s Conference — Illinois, June–July 2021](#)
- [Monitoring Incidence of COVID-19 Cases, Hospitalizations, and Deaths, by Vaccination Status — 13 U.S. Jurisdictions, April 4–July 17, 2021](#)
- [Association Between COVID-19 and Myocarditis Using Hospital-Based Administrative Data — United States, March 2020–January 2021](#)
- [Long-Term Symptoms Among Adults Tested for SARS-CoV-2 — United States, January 2020–April 2021](#)

HOT OFF THE (LAY) PRESS

- *Moderna Press Release*
 - [Moderna Announces Submission of Initial Data to U.S. FDA for Its COVID-19 Vaccine Booster](#)
- *New York Times*
 - [Health Officials Advise White House to Scale Back Booster Plan for Now](#)
 - [Pfizer and BioNTech will soon seek approval for vaccine use in children 5 years and over](#)
 - [Los Angeles became the first major school district in the United States to mandate Covid vaccines for students 12 and older.](#)
 - [Biden’s new vaccine push is a fight for the U.S. economy](#)
 - [President Biden will move to require vaccines for tens of millions more U.S. workers. Federal employees could face disciplinary measures if they refuse.](#)
 - [He called for a rule to mandate Covid vaccinations or weekly tests at businesses with 100 or more workers, among other new efforts. Here are the details.](#)
 - [Unvaccinated Americans are 11 times more likely to die of Covid, the C.D.C. reported, among other data showing vaccines’ protection from severe cases.](#)
 - [One in 5,000: The real chances of a breakthrough infection](#)
 - [Covid Deaths Surge Across a Weary America as a Once-Hopeful Summer Ends](#)
 - [Breakthrough infections are less likely to lead to long COVID, a study suggests](#)
 - [The delta variant carries a higher risk of hospitalization, a study finds](#)
 - [The Education Department is investigating five states with mask-mandate bans, saying the rules may violate laws protecting students with disabilities.](#)
 - [The European Union recommended reimposing travel restrictions for unvaccinated U.S. visitors, but the change is not mandatory for member states.](#)
- *Reuters*
 - [EU drops U.S. from list of COVID-safe countries for travel](#)
 - [Italy approves booster COVID-19 shots for vulnerable groups](#)
 - [Chilean health regulator approves CoronaVac use among children over age 6](#)





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- *CNN*
 - [As Covid-19 hospitalizations spike, some overwhelmed hospitals are rationing care](#)
 - [Fauci: School Covid-19 vaccine mandates are a 'good idea'](#)
- *The Hill*
 - [Education Department promises support to districts penalized for COVID-19 measures](#)
- *Gallup*
 - [K-12 Parents Divided Over Mask Mandates in School](#)
- *The Washington Post*
 - [School mask fights escalate as Republican governors push back on Biden vaccine mandate](#)
 - [As pediatrician and parent, I'm troubled we still can't immunize kids under 12 against covid](#)
 - [I treat pediatric covid patients. What I'm seeing in our hospital scares me.](#)
 - [United Airlines employees who get vaccine exemptions must take temporary leaves, company says](#)
 - [More than 660,000 people have died from coronavirus in the U.S.](#)
 - [Tens of billions of pandemic aid for hospitals and nursing homes not distributed](#)
- *Politico*
 - [Calls grow for FDA to speed authorization of kid Covid-19 vaccines](#)
 - [Covid-19 testing system struggles to keep up with Delta demand](#)
 - [Biden's top-down booster plan sparks anger at FDA](#)
 - [More states embrace vax passports without waiting for Biden](#)
- *The Wall Street Journal*
 - [Labor Day Return to Normal in New York Is Tripped Up by Delta Variant](#)
 - [U.S. Covid-19 Hospitalizations Approach a Peak as Delta Variant Spreads](#)
 - [Hospitals Swamped With Delta Cases Struggle to Care for Critical Patients](#)
 - [In Israel, Being Fully Vaccinated Now Means Three Shots](#)
- *ABC News*
 - [More Americans getting vaccinated following full FDA approval of Pfizer COVID vaccine](#)
- *Axios*
 - [Axios-Ipsos poll: Vaccine hesitancy may be crumbling](#)
- *Bloomberg*
 - [Hospitals in U.S. South Run Low on Oxygen Amid Covid, Storm](#)
- *Alzheimer's Association*
 - [COVID-19 Associated with Long-Term Cognitive Dysfunction, Acceleration of Alzheimer's Symptoms](#)
- *TexasMonthly*
 - [Can This Houston-Born COVID Vaccine Save the Developing World?](#)
- *Financial Express*
 - [Biological E to make up to 100m Corbevax vaccine doses a month, seeks nod for studies on children](#)
- *NPR*
 - [Poison Control Centers Are Fielding A Surge Of Ivermectin Overdose Calls](#)
- *The Nation's Health*
 - [Strain of pandemic harms mental health of public health workers: CDC survey reports high stress levels](#)





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- *Los Angeles Times*
 - [Mu coronavirus recorded in 167 people in L.A. county](#)
 - [Urban California taming virus surge, but areas with low vaccination rates still in danger](#)
 - [COVID-19 vaccinations lagging despite F.D.A.'s full approval of Pfizer shots](#)
 - [COVID-19 surges in unvaccinated communities are sending more kids to the hospital](#)
 - [Hospitals see more unvaccinated younger, healthier people with COVID-19](#)
 - [Op-Ed: Refusing a COVID-19 booster shot won't save lives abroad. Here's why](#)
- *San Francisco Chronicle*
 - [Even Bay Area needs more people to get shots as Biden ramps up vaccine mandates](#)
 - [These numbers show the Bay Area's delta surge may be waning – but it's unclear if they will hold](#)
 - [When will COVID restrictions be lifted in the Bay Area? Not anytime soon, experts say](#)
 - [ICU bed shortage in California's central valley region reaches critical surge level](#)
 - [CDC: Unvaccinated Marin County teacher caused big COVID-19 outbreak in school](#)
 - [Delta means we may never eradicate COVID. UCSF's Monica Gandhi on our only escape route left](#)

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 September 14, 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 Rehabilitation's Population COVID-19 Tracking Dashboards](#)
- [CDC Interactive Serology Dashboard for Commercial Laboratory Surveys](#)
- [Children and COVID-19: State-Level Data Report \(New data!\)](#)
- [HHS Coronavirus Data Hub](#)
- [COVID-19 Nursing Home Data](#)

