



COVID-19 Digest Issue 28

November 4, 2020

CLINICAL PEARL

- **COVID-19 and pregnancy:** The Centers for Disease Control (CDC) recently released two *Morbidity and Mortality Weekly Reports (MMWRs)* about pregnant women and COVID-19. Findings from two new CDC studies underscore the importance of counseling pregnant women about their risk for severe COVID-19 illness, the potential risk of preterm birth as well as the need to follow key mitigation measures to reduce the risk of acquiring COVID-19 during pregnancy.
 - The first study "[Update: Characteristics of Symptomatic Women of Reproductive Age with Laboratory-Confirmed SARS-CoV-2 Infection by Pregnancy Status—United States, January 22–October 3, 2020](#)," found that **pregnant women with COVID-19 are at increased risk for severe illness, compared with non-pregnant women with COVID-19**. Markers for severe illness included admission to an intensive care unit, need for invasive ventilation and/or extracorporeal membrane oxygenation (ECMO, an advanced life support technique used for patients with life-threatening heart and/or lung problems), and death. Although the absolute risks of severe illness are low overall, pregnant women are at increased risk compared with nonpregnant women with COVID-19, and **risk of severe outcomes were highest among women in the oldest age group (ages 35 – 44)**. **Hispanic or Black women were found to be disproportionately affected** by COVID-19 during pregnancy. Further, **pregnant Hispanic women were more likely to die** compared to nonpregnant women relative to other subgroups, and **non-Hispanic Black women were disproportionately represented in the total number of deaths** among women with COVID-19, regardless of pregnancy status.
 - The second study "[Birth and Infant Outcomes Following Laboratory-Confirmed SARS-CoV-2 Infection in Pregnancy—SET-NET, 16 Jurisdictions, March 29–October 14, 2020](#)," found that pregnant women with COVID-19 may be **at increased risk of having a preterm infant** (born before 37 weeks), which may lead to serious health problems for the infant. **Infants born to mothers with COVID-19 during pregnancy were rarely found to have positive COVID-19 test results, and those who did have a positive test result were primarily born to mothers who had COVID-19 within one week of delivery.**

PUBLIC HEALTH UPDATES

- San Mateo County Health Officer issued the following revised orders:
 - [Home Isolation Order](#) directing individuals in the county with COVID-19 to isolate themselves
 - [Home Quarantine Order](#) directing individuals in the county who are close contacts of individuals with COVID-19 to quarantine themselves
 - [Long Term Care Facilities Order](#) allowing necessary indoor visitation and limited outdoor and indoor visitation under certain required preconditions

GUIDANCE/GUIDELINES

- American Academy of Pediatrics: [Interim Guidance on Supporting the Emotional and Behavioral Health Needs of Children, Adolescents, and Families During the COVID-19 Pandemic](#)
- [CDC Issues Framework for Resuming Safe and Responsible Cruise Ship Passenger Operations](#)

RESOURCES

- CDC/IDSA COVID-19 Clinician Call: [Beyond Acute SARS-CoV-2 Infection: Clinical Definitions and Considerations](#)





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- IDSA Podcast: [Seven Months into COVID-19: Where Are We Now?](#)
- Connecting with the Experts - COVID-19 Town Hall session: [“COVID-19 and Kids-What’s the latest”](#) (AAP)
- PRIME Education Podcast series: [HIV and COVID-19: What to Do When an Epidemic Meets a Pandemic](#)

ACADEMIC/RESEARCH PAPERS

- *Nature Microbiology*
 - [Longitudinal observation and decline of neutralizing antibody responses in the three months following SARS-CoV-2 infection in humans](#)
- *Science*
 - [Robust neutralizing antibodies to SARS-CoV-2 infection persist for months](#)
- *European Journal of Immunology*
 - [Seroprevalence of anti-SARS-CoV-2 antibodies in COVID-19 patients and healthy volunteers up to six months post disease onset](#)
- *The Journal of Clinical Investigation*
 - [Sex, age, and hospitalization drive antibody responses in a COVID-19 convalescent plasma donor population](#)
- *Cell*
 - [Public health antibody screening indicates a six-fold higher SARS-CoV-2 exposure rate than reported cases in children](#)
- *New England Journal of Medicine*
 - [SARS-CoV-2 Neutralizing Antibody LY-CoV555 in Outpatients with Covid-19](#)
 - [Efficacy of Tocilizumab in Patients Hospitalized with Covid-19](#)
- *Cochrane Systematic Review*
 - [Convalescent plasma or hyperimmune immunoglobulin for people with COVID-19: a living systematic review](#)
- *medRxiv*
 - [SARS-CoV-2 sequencing reveals rapid transmission from college student clusters resulting in morbidity and deaths in vulnerable populations](#)
 - [Broadly-targeted autoreactivity is common in severe SARS-CoV-2 Infection](#)
 - [Persistent symptoms after Covid-19: qualitative study of 114 “long Covid” patients and draft quality criteria for services](#)
- *Emerging Infectious Diseases*
 - [Cellular Immunity in COVID-19 Convalescents with PCR-Confirmed Infection but with Undetectable SARS-CoV-2–Specific IgG](#)
 - [Social Distancing and Artful Pandemic Survival](#)
 - [Early Insights from Statistical and Mathematical Modeling of Key Epidemiologic Parameters of COVID-19](#)
- *American Society for Microbiology*
 - [Molecular Architecture of Early Dissemination and Massive Second Wave of the SARS-CoV-2 Virus in a Major Metropolitan Area](#)
- *U.S. PIRG*
 - [NURSING HOME SAFETY DURING COVID: PPE SHORTAGES](#)





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- *JAMA*
 - [COVID-19 Test Result Turnaround Time for Residents and Staff in US Nursing Homes](#)
 - [Comparative Performance of Private Equity–Owned US Nursing Homes During the COVID-19 Pandemic](#)
 - [Peripheral Oxygen Saturation in Older Persons Wearing Nonmedical Face Masks in Community Settings](#)
 - [Hospital Volumes of 5 Medical Emergencies in the COVID-19 Pandemic in 2 US Medical Centers](#)
 - [Preventing the Spread of SARS-CoV-2 With Masks and Other “Low-tech” Interventions](#)
 - [Answering Key Questions About COVID-19 Vaccines](#)
 - [Factors Associated With Mental Health Disorders Among University Students in France Confined During the COVID-19 Pandemic](#)
- *BMJ Journal*
 - [Association between SARS-CoV-2 infection, exposure risk and mental health among a cohort of essential retail workers in the USA](#)
 - [Risk of hospital admission with coronavirus disease 2019 in healthcare workers and their households: nationwide linkage cohort study](#)
- *SSRN*
 - [The Effects of Large Group Meetings on the Spread of COVID-19: The Case of Trump Rallies](#)
- *Vanderbilt University School of Medicine*
 - [COVID-19 Trends in Tennessee: Summer turns to Fall](#)
- *Open Forum Infectious Diseases*
 - [Risk factors for SARS-CoV-2 infection in homeless shelters in Chicago, Illinois – March-May, 2020](#)
- *The Lancet*
 - [Associations of type 1 and type 2 diabetes with COVID-19-related mortality in England: a whole-population study](#)
 - [Risk factors for COVID-19-related mortality in people with type 1 and type 2 diabetes in England: a population-based cohort study](#)
 - [Residential context and COVID-19 mortality among adults aged 70 years and older in Stockholm: a population-based, observational study using individual-level data](#)
- *American Journal of Perinatology*
 - [Longitudinal Survey of COVID-19 Burden and Related Policies in U.S. Neonatal Intensive Care Units](#)
- *Pediatrics*
 - [COVID-19 and Parent-Child Psychological Well-being](#)
- *The Journal of Allergy and Clinical Immunology*
 - [Factors associated with adverse COVID-19 outcomes in patients with psoriasis – insights from a global registry-based study](#)
- *Nature Medicine*
 - [Wearable sensor data and self-reported symptoms for COVID-19 detection](#)
- *Respiratory Research*
 - [The effect of vascular risk factor burden on the severity of COVID-19 illness, a retrospective cohort study](#)
- *Journal of the American College of Cardiology*
 - [Characterization of Myocardial Injury in Patients With COVID-19](#)
 - [Registry of Arterial and Venous Thromboembolic Complications in Patients With COVID-19](#)
- *Cardiovascular Pathology*
 - [Myocarditis is rare in COVID-19 autopsies: cardiovascular findings across 277 postmortem examinations](#)





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- *Cardiovascular Research*
 - [Regional and global contributions of air pollution to risk of death from COVID-19](#)
- *International Journal of Indoor Environment and Health*
 - [Reducing aerosol transmission of SARS-CoV-2 in hospital elevators](#)
- *Physics of Fluids*
 - [Aerosol persistence in relation to possible transmission of SARS-CoV-2](#)
- *mSphere*
 - [Effectiveness of Face Masks in Preventing Airborne Transmission of SARS-CoV-2](#)
- *Journal of Travel Medicine*
 - [In-flight transmission of SARS-CoV-2: a review of the attack rates and available data on the efficacy of face masks](#)
- *Eurosurveillance*
 - [A large national outbreak of COVID-19 linked to air travel, Ireland, summer 2020](#)
- *Harvard T.H. Chan School of Public Health/ Aviation Public Health Initiative*
 - [Assessment of Risks of SARS-CoV-2 Transmission during Air Travel and Non-Pharmaceutical Interventions to Reduce Risk Phase One Report: Gate-to-Gate Travel Onboard Aircraft](#)
- *Microbes and Infection*
 - [Anti-science extremism in America: escalating and globalizing](#)

MMWR

- [Birth and Infant Outcomes Following Laboratory-Confirmed SARS-CoV-2 Infection in Pregnancy — SET-NET, 16 Jurisdictions, March 29–October 14, 2020](#)
- [Update: Characteristics of Symptomatic Women of Reproductive Age with Laboratory-Confirmed SARS-CoV-2 Infection by Pregnancy Status — United States, January 22–October 3, 2020](#)
- [Transmission of SARS-COV-2 Infections in Households — Tennessee and Wisconsin, April–September 2020](#)
- [COVID-19 Outbreak at an Overnight Summer School Retreat — Wisconsin, July–August 2020](#)

HOT OFF THE (LAY) PRESS

- *USA Today*
 - ['There's no way to sugarcoat it': COVID-19 cases are surging; one American dies every 107 seconds](#)
 - [Doctors: Trump is wrong to accuse medical professionals of profiting from diagnosing COVID-19](#)
 - [Trump's campaign made stops nationwide. Coronavirus cases surged in his wake in at least five places.](#)
- *CNN*
 - [Many counties that hosted Trump rallies had a significant increase in Covid-19 cases](#)
 - [Flying can be safer than grocery shopping, Harvard study asserts](#)
- *Center for Infectious Disease Research and Policy News*
 - [Some areas in US, Europe battle dogged COVID-19 spread](#)
- *The Hill*
 - [Trump administration testing czar: Rise in cases is 'real,' not just from more testing](#)
- *AP News*
 - [WHO: Europe now has more than 10 million COVID-19 cases](#)
 - [Medicare finalizing coverage policy for coronavirus vaccine](#)





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- *The New York Times*
 - [The U.S. has surpassed nine million coronavirus cases, with infections rising in 42 states, as the nation struggles to contain a third surge.](#)
 - [The United States set another single-day record for new coronavirus cases, surpassing the previous record set last Friday.](#)
 - [United States Records Its Worst Week Yet for Virus Cases](#)
 - [Dr. Deborah Birx, a top White House coronavirus adviser, privately warned officials of a new, “deadly” phase, directly contradicting the president.](#)
 - [With U.S. coronavirus cases mounting, Thanksgiving could be an ‘inflection point.’](#)
 - [Death Rates Have Dropped for Seriously Ill Covid Patients](#)
 - [States Undercount Positive Rapid Tests, Masking the Spread of Disease](#)
 - [How Are Americans Catching the Virus? Increasingly, ‘They Have No Idea’](#)
 - [Will the Hardest-Hit Communities Get the Coronavirus Vaccine?](#)
 - [The Trump Administration Shut a Vaccine Safety Office Last Year. What’s the Plan Now?](#)
 - [‘A Slow Killer’: Nursing Home Residents With in Isolation Forced by the Virus](#)
 - [Acute HIV Cases Double in ED. Is COVID-19 Responsible?](#)
 - [People Are Still Having Sex. So Why Are S.T.D. Rates Dropping?](#)
 - [Wedding and Birthday Party Infect 56, Leaving Nearly 300 in Quarantine](#)
 - [In San Francisco, Virus Is Contained but Schools Are Still Closed](#)
 - [When parents lose their jobs, children suffer. But sometimes there’s a consolation.](#)
 - [The Double Whammy of Seasonal Affective Disorder in a Season of Covid](#)
 - [Masks Work. Really. We’ll Show You How](#)
 - [Eli Lilly said its antibody treatment does not work on patients hospitalized with Covid-19](#)
- *Reuters*
 - [U.S. strikes deal with Lilly for potential COVID-19 antibody drug](#)
 - [Novavax delays U.S. trial of COVID-19 vaccine to November](#)
 - [U.S. reports world record of more than 100,000 COVID-19 cases in single day](#)
 - [Peru reports first diphtheria case in 20 years amid low vaccination rate](#)
 - [Regeneron says its COVID-19 antibody treatment cut medical visits in trial](#)
- *REGENERON News*
 - [REGENERON'S COVID-19 OUTPATIENT TRIAL PROSPECTIVELY DEMONSTRATES THAT REGN-COV2 ANTIBODY COCKTAIL SIGNIFICANTLY REDUCED VIRUS LEVELS AND NEED FOR FURTHER MEDICAL ATTENTION](#)
 - [REGN-COV2 INDEPENDENT DATA MONITORING COMMITTEE RECOMMENDS HOLDING ENROLLMENT IN HOSPITALIZED PATIENTS WITH HIGH OXYGEN REQUIREMENTS AND CONTINUING ENROLLMENT IN PATIENTS WITH LOW OR NO OXYGEN REQUIREMENTS](#)
- *Science Speaks: Global ID News*
 - [The 51st Union Conference on Lung Health: Race to secure COVID-19 vaccine doses leaves most countries behind](#)
- *The Wall Street Journal*
 - [The Covid Thanksgiving: Outdoor Heaters, Virtual Meals, Grandma Stays Home](#)
- *NPR/KQED*
 - [Thanksgiving In The Time Of COVID-19: To Grandmother's House Or No?](#)
 - [Coronavirus Maps: How Severe Is Your State's Outbreak?](#)
 - [Internal Documents Reveal COVID-19 Hospitalization Data The Government Keeps Hidden](#)





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- *Medscape*
 - [COVID-19 Data Dives: Claims About False COVID Deaths Are Reprehensible](#)
- *The Washington Post*
 - [At least 230,000 people have died from coronavirus in the U.S.](#)
 - [Donald Trump Jr. said covid-19 deaths are at 'almost nothing.' The virus killed more than 1,000 Americans the same day](#)
 - [Full hospitals, talk of rationing care: New wave of coronavirus cases strains resources](#)
 - [Some Americans refuse to wear masks even as their hometowns become covid-19 hot spots](#)
 - [Options dwindling for voters diagnosed with covid-19 as election day draws near](#)
 - [States say they lack federal funds to distribute coronavirus vaccine as CDC tells them to be ready by Nov. 15](#)
 - [United to offer free coronavirus testing on select Newark-to-London flights](#)
 - [Researchers find 'glimmers of hope' after inviting thousands to indoor concert amid pandemic](#)
 - [China's Kashgar had a coronavirus outbreak. Within two days, 4.5 million people were tested](#)
 - [Taiwan celebrates record 200 days with no confirmed local coronavirus transmission](#)
- *Bloomberg*
 - [Record 200 Days With No Local Case Makes Taiwan World's Envy](#)
 - [Pharmacies See Record Flu Shot Demand in First Season With Covid](#)
- *Forbes*
 - [Fauci Endorses National Mask Mandate But Concedes It's Unlikely Under Trump](#)
- *Vox*
 - [Why many Americans refuse to participate in contact tracing](#)
- *The New Yorker*
 - [How the Coronavirus Hacks the Immune System](#)
- *CDC NIOSH Science Blog*
 - [NIOSH Ventilated Headboard Provides Solution to Patient Isolation During an Epidemic](#)
- *The Asahi Shimbun*
 - [Supercomputer deduces partition height to prevent virus spread](#)
- *MedPage Today*
 - [Homeless Camps Less Risky Than Shelters for COVID-19](#)
 - [Worldwide Measles Vaccination Is Flagging](#)
- *WHO News*
 - [WHO: Global TB progress at risk](#)
- *UNICEF News*
 - [Children in the poorest countries have lost nearly four months of schooling since start of pandemic – UNESCO, UNICEF and World Bank report finds](#)
- *San Francisco Chronicle*
 - [First known case in Bay Area of dual coronavirus-flu infection found in Solano County](#)
 - [UC Berkeley researchers testing sewage from millions of Bay Area residents for coronavirus](#)
 - [To avoid surge, S.F. halts reopening as coronavirus cases, hospitalizations rise](#)
 - ['Imminent risk of a super-spreader': Santa Clara D.A. sues San Jose church, alleging health order violations](#)
 - [Stanford to enroll 1,000 volunteers for Johnson & Johnson coronavirus vaccine trial](#)
 - [S.F. contact tracing reached more than 80% of patients in the spring](#)





SAN MATEO COUNTY HEALTH

PUBLIC HEALTH, POLICY & PLANNING

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EPIDEMIOLOGY UPDATES

- **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 4, 2020**
- [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](#)
- [COVID-19 Nursing Home Data](#)
- [CDC Interactive Serology Dashboard for Commercial Laboratory Surveys](#)
- [CDC COVID-19 Forecasts: Deaths](#)
- [HHS Coronavirus Data Hub](#)

