CLINICAL PEARL

• **COVID-19 and infants:** Although children overall are less affected by COVID-19, very young infants are more vulnerable to the disease. A large retrospective study of over 700 Chinese children with confirmed COVID-19 found that the proportion of severe and critical cases was 10.6%, 7.3%, 4.2%, 4.1%, and 3.0% for the age groups <1, 1 to 5, 6 to 10, 11 to 15, and >15 years, respectively. In the US, neonates account for 15% of all pediatric cases. Clinicians caring for neonates should be aware that there is currently no evidence to suggest vertical transmission or prenatal infection. A recent study found no evidence of transmission of COVID-19 from infected mothers to their babies when basic infection-control protocols were followed. The transmission of SARS-CoV-2 to neonates is thought to be postnatal from infected mothers and other close contacts. Clinical signs in neonates with COVID-19 include fever, lethargy, increased work of breathing, hypoxemia, cough, vomiting, diarrhea, and feeding intolerance. Preterm infants infected with SARS-CoV-2 tend to present with signs and symptoms that can be difficult to distinguish from prematurity-related respiratory comorbidities. The CDC currently recommends that all infants, including those who are asymptomatic, born to mothers with confirmed or suspected COVID-19 be tested at approximately 24 h of age. Pending results, these infants should be presumed infectious and remain isolated from other neonates. The CDC does not prohibit infected mothers from breastfeeding their newborns as long as mothers follow appropriate respiratory etiquette.

GUIDANCE/GUIDELINES

• American Academy of Pediatrics
  - [Guidance on the Use of Personal Protective Equipment (PPE) for Pediatric Care in Ambulatory Care Settings during the SARS-CoV-2 Pandemic](https://www.aap.org/en-us/coronavirus-preparedness/Pages/Guidance-on-the-Use-of-PPE-for-Pediatric-Care-in-Ambulatory-Care-Settings-During-the-SARS-CoV-2-Pandemic.aspx)
• American Society of Hematology: [Guidelines on Use of Anticoagulation in Patients with COVID-19](https://www.asahem.org/practice-guidelines/guidelines-on-use-of-anticoagulation)
• California Department of Public Health: [Guidance for Safer Halloween and Día de los Muertos Celebrations during COVID-19](https://www.cdph.ca.gov/Prevent/COVID-19/COVID-19PreventativeGuidance/default.htm)

RESOURCES

• IDSA Podcast: [COVID-19: An Update on Schools - Is In-Person Learning Now Considered Safe?](https://www.idsociety.org/resources/covid-19-updates/)
1-october-2020)
• Harvard T.H. Chan School of Public Health
  - [Schools for Health](https://www.hsph.harvard.edu/covid-19/)
  - [5 Step Guide to Checking Ventilation Rates in Classrooms](https://www.hsph.harvard.edu/schools-for-health/5-step-guide-checking-ventilation-rates-classrooms/)
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ACADEMIC/RESEARCH PAPERS

- *International Journal of Indoor Environment and Health*
  - Transmission of SARS-CoV-2 by inhalation of respiratory aerosol in the Skagit Valley Chorale superspreading event

- *Nature Communications*
  - Inference of person-to-person transmission of COVID-19 reveals hidden super-spreading events during the early outbreak phase

- *JAMA*
  - Analysis of Genomic Characteristics and Transmission Routes of Patients With Confirmed SARS-CoV-2 in Southern California During the Early Stage of the US COVID-19 Pandemic
  - Use and Content of Primary Care Office-Based vs Telemedicine Care Visits During the COVID-19 Pandemic in the US
  - Change in Antibodies to SARS-CoV-2 Over 60 Days Among Health Care Personnel in Nashville, Tennessee

- *Science Immunology*
  - Persistence of serum and saliva antibody responses to SARS-CoV-2 spike antigens in COVID-19 patients

- *New England Journal of Medicine*
  - Saliva or Nasopharyngeal Swab Specimens for Detection of SARS-CoV-2
  - Dying in a Leadership Vacuum
  - Effect of Hydroxychloroquine in Hospitalized Patients with Covid-19

- *Annals of Internal Medicine*
  - Should Remdesivir Be Used for the Treatment of Patients With COVID-19? Rapid, Living Practice Points From the American College of Physicians (Version 1)

- *medRxiv*
  - Direct detection of SARS-CoV-2 using CRISPR-Cas13a and a mobile phone
  - Sharing a household with children and risk of COVID-19: a study of over 300,000 adults living in healthcare worker households in Scotland

- *American Journal of Epidemiology*

- *Clinical Infectious Diseases*
  - Survival of SARS-CoV-2 and influenza virus on the human skin: Importance of hand hygiene in COVID-19

- *Emerging Infectious Diseases*
  - Risk for SARS-CoV-2 Infection in Healthcare Workers, Turin, Italy
  - SARS-CoV-2 Cluster in Nursery, Poland

- *PLOS One*
  - COVID-SCORE: A global survey to assess public perceptions of government responses to COVID-19 (COVID-SCORE-10)
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- **JAMA Internal Medicine**
  - COVID-19 and Psychological Distress—Changes in Internet Searches for Mental Health Issues in New York During the Pandemic

- **The Lancet**
  - Humoral response and PCR positivity in patients with COVID-19 in the New York City region, USA: an observational study
  - Clinical impact of molecular point-of-care testing for suspected COVID-19 in hospital (COV-19POC): a prospective, interventional, non-randomised, controlled study
  - Neuropathology of patients with COVID-19 in Germany: a post-mortem case series
  - Lopinavir–ritonavir in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial
  - Genomic evidence for reinfection with SARS-CoV-2: a case study

- **JAMA Pediatrics**
  - Outcomes of Neonates Born to Mothers With Severe Acute Respiratory Syndrome Coronavirus 2 Infection at a Large Medical Center in New York City

- **The Pediatric Infectious Disease Journal**
  - A Multicentered Study on Epidemiologic and Clinical Characteristics of 37 Neonates With Community-acquired COVID-19

- **Journal of Adolescent Health**
  - Social (Un)distancing: Teammate Interactions, Athletic Identity, and Mental Health of Student-Athletes During the COVID-19 Pandemic

- **United Hospital Fund**
  - COVID-19 Ripple Effect: The Impact of COVID-19 on Children in New York State

- **Journal of Medical Virology**
  - Suppression of SARS-CoV-2 infection in ex-vivo human lung tissues by targeting class III phosphoinositide 3-kinase

- **Cell**
  - Antigen-Specific Adaptive Immunity to SARS-CoV-2 in Acute COVID-19 and Associations with Age and Disease Severity

- **Frontiers in Microbiology**
  - Comprehensive Genome Analysis of 6,000 USA SARS-CoV-2 Isolates Reveals Haplotype Signatures and Localized Transmission Patterns by State and by Country

- **American Society of Microbiology**
  - S Protein-Reactive IgG and Memory B Cell Production after Human SARS-CoV-2 Infection Includes Broad Reactivity to the S2 Subunit

- **Clinical Microbiology and Infection**
  - Follow-up of adults with non-critical COVID-19 two months after symptoms' onset

- **Association of Anaesthetists**
  - A quantitative evaluation of aerosol generation during tracheal intubation and extubation

- **Annals of the American Thoracic Society**
  - Effect of Face Masks on Gas Exchange in Healthy Persons and Patients with COPD

- **Neurology**
  - A Prospective Study of Neurologic Disorders in Hospitalized COVID-19 Patients in New York City
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- **Annals of Clinical and Translational Neurology**
  - Frequent neurologic manifestations and encephalopathy-associated morbidity in Covid-19 patients

- **Journal of Neurology**
  - Neurologic manifestations in 1760 COVID-19 patients admitted to Papa Giovanni XXIII Hospital, Bergamo, Italy

- **Age and Aging**
  - Probable delirium is a presenting symptom of COVID-19 in frail, older adults: a cohort study of 322 hospitalised and 535 community-based older adults

- **Research and Practice in Thrombosis and Hemostasis**
  - Risk of venous thromboembolism in patients with COVID-19: A systematic review and meta-analysis

- **Academic Emergency Medicine**
  - Outcomes in Hispanics with Covid-19 are similar to Caucasian patients in Suburban New York

**MMWR**

- Transmission Dynamics by Age Group in COVID-19 Hotspot Counties — United States, April–September 2020
- Factors Influencing Risk for COVID-19 Exposure Among Young Adults Aged 18–23 Years — Winnebago County, Wisconsin, March–July 2020
- Characteristics Associated with Adults Remembering to Wash Hands in Multiple Situations Before and During the COVID-19 Pandemic — United States, October 2019 and June 2020
- Case Series of Multisystem Inflammatory Syndrome in Adults Associated with SARS-CoV-2 Infection — United Kingdom and United States, March–August 2020

**HOT OFF THE (LAY) PRESS**

- **CNN**
  - CDC identifies new Covid-19 syndrome in adults similar to MIS-C in kids

- **WebMD**
  - Trump Touts Unproven Therapy as COVID 'Cure'

- **The New York Times**
  - A closer look at the treatment Trump praises as ‘a cure’
  - Regeneron Asks F.D.A. for Emergency Approval for Drug That Trump Claimed Cured Him
  - The Coronavirus May Be Adrift in Indoor Air, C.D.C. Acknowledges
  - Battered by Trump, the C.D.C.’s Director Faces Pressure to Speak Out
  - ‘Eventually, slowly, it comes back’: The U.S. Northeast sees signs of a second wave
  - Nearly One-Third of Covid-19 Patients in Study Had Altered Mental State
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- **What’s Special About Bat Viruses? What We Don’t Know Could Hurt Us**
- **Could stereotypes about masks as unmanly explain why the virus has infected more men?**
- **Mothers are the ‘Shock Absorbers’ of Our Society**
- **No Home, No Wi-Fi: Pandemic Adds to Strain on Poor College Students**
- **Freshman enrollment drops significantly at U.S. universities and community colleges**
- **8 Million Have Slipped Into Poverty Since May as Federal Aid Has Dried Up**
- **Companies ditch plans for rapid spit tests at home.**
- **Nevada halts use of rapid coronavirus tests in nursing homes, citing inaccuracies.**
- **Nevada Revokes Halt on Rapid Antigen Testing in Nursing Homes**
- **Discontinue the Use of Antigen Testing in Skilled Nursing Facilities Until Further Notice**
- **Yale News**
  - Yale designates labs in three states to provide SalivaDirect™ COVID-19 test
- **CNBC**
  - FDA grants emergency clearance for GenMark test that screens for the flu, coronavirus and other viruses
- **Science**
  - New test detects coronavirus in just 5 minutes
- **Medscape**
  - Easier-to-Use Coronavirus Saliva Tests Start to Catch On
  - COVID-19 Data Dives: What We Have Learned About SARS-CoV-2 Transmission
  - Lower Plasma Zinc Levels Associated With Increased Risk of Death in COVID-19 Patients
  - FDA's Hahn to Topol: Decisions Will Be Made Based on Science Alone
  - COVID Could Add 20K+ Americans a Day to 'Preexisting Conditions'
- **The Commonwealth Fund**
  - Will the Pandemic Increase the Number of Americans with Preexisting Conditions?
- **Politico**
  - White House lifts block on FDA's stricter vaccine requirements
  - Warp Speed’s focus on vaccines may have shortchanged antibody treatments
- **Kaiser Health News**
- **Vox**
  - Trump’s Operation Warp Speed could be a success. The problem is Trump.
- **STAT News**
  - Race for Covid-19 vaccine slows as regulators, top Warp Speed official tap the brakes
  - He’s a recruiter for a Covid-19 vaccine trial. Can he overcome communities’ distrust — and his own mother’s?
  - Eli Lilly says its monoclonal antibody cocktail is effective in treating Covid-19
- **NPR/KQED**
  - Johnson & Johnson, Eli Lilly Pause COVID-19 Drug Trials
  - Johnson & Johnson Vaccine Trial Paused Due To 'Unexplained Illness' In Participant
  - Scientists Confirm Nevada Man Was Infected Twice With Coronavirus
  - Could The Live Flu Vaccine Help You Fight Off COVID-19?
  - Sleepless Nights, Hair Loss And Cracked Teeth: Pandemic Stress Takes Its Toll
  - Mental Health Challenges During the Pandemic
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- Sharp Rise In Drug Overdose Deaths Seen During 1st Few Months Of Pandemic
- To Tackle Racial Disparities In COVID-19, California Enacts New Metric For Reopening
- Homeless Families Struggle With Impossible Choices As School Closures Continue
- Enrollment Is Dropping In Public Schools Around the Country
- College Says Students May Have Sought COVID-19 Infection To Boost Plasma Donor Payout

• Forbes
  - Final Results In Remdesivir Trial Confirm It Shortens Length Of Covid-19 Cases, But Has Small Impact On Death

• Bloomberg
  - Moderna Won’t Enforce Covid Vaccine Patents During Pandemic
  - Covid ’Long Haulers’ Ask Who Pays When Sickness Just Won’t End
  - U.S. Curve Points Up and France’s Cases Hit Record: Virus Update

• The Wall Street Journal
  - As Second Covid-19 Wave Rolls Through Europe, Deaths and Hospitalizations Rise

• Scientific American
  - COVID-19 Is Now the Third Leading Cause of Death in the U.S.
  - Trump’s Illness and the Need for a Reset on U.S. Coronavirus Policy

• The Washington Post
  - Covid-19 death rates are lower worldwide, but no one is sure whether that’s a blip or a trend
  - A public health giant gives a scathing indictment of Trump’s pandemic response
  - Guests at Trump’s event scattered across the country. Potentially exposed, many of their contacts may never be identified.
  - I couldn’t sit idly and watch people die from Trump’s chaotic, politicized pandemic response, so I resigned
  - Pregnant women are likely to have mild covid-19 cases but suffer prolonged symptoms, study finds

• AP News
  - WHO: 10% of world’s people may have been infected with virus
  - US panel tackles race, poverty in virus vaccine priority
  - Wisconsin activates field hospital as COVID keeps surging

• Reuters
  - Japan supercomputer shows humidity affects aerosol spread of coronavirus
  - Exclusive: Moderna vaccine trial contractors fail to enroll enough minorities, prompting slowdown
  - Trump administration will cease federal funding to hospitals that do not report COVID-19 data

• ABC News
  - COVID-19 pandemic amplifying voter disenfranchisement

• USA Today
  - Florida schools reopened en masse, but a surge in coronavirus didn’t follow, a USA TODAY analysis finds

• WalletHub
  - 2020’s Safest States for Schools to Reopen

• Nature News Feature
  - Face masks: what the data say

• The Mercury News
  - Coronavirus: Deaths dip in California, but not Bay Area
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- San Francisco Chronicle
  - Medical supply chain shortages led to deadly consequences
  - How will California distribute coronavirus vaccines? Bay Area planning for multiple scenarios
  - Charts show how coronavirus cases in Bay Area compare to hotspots in Texas
  - Four Bay Area counties fall short of state’s new coronavirus equity metrics, which are needed to advance reopening
  - Meet the people still sheltering in place in the Bay Area: ‘I don’t see an end to it’
  - Rapid at-home coronavirus tests are coming soon. Will they be a game-changer?

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 October 16, 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