

COVID-19 Digest Issue 16

August 13, 2020

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CLINICAL PEARL

- **COVID-19 and venous thromboembolism (VTE):** The incidence of VTE in COVID-19 patients is not well established. Reports have ranged from 1.1% in non-ICU hospital wards to 69% in ICU patients screened with lower extremity ultrasound. Small sample sizes, retrospective design and differences in patient characteristics, co-morbidities, hospital and ICU admission criteria, criteria for diagnostic imaging, and COVID-19 therapies likely contribute to this wide range of estimates. Like other medical patients, those with more severe disease, especially if they have additional risk factors (e.g. older, male, obesity, cancer, history of VTE, comorbid diseases, ICU care), have a higher risk of VTE than those with mild or asymptomatic disease. VTE rate in outpatients has not been reported. All hospitalized adults with COVID-19 should receive pharmacologic thromboprophylaxis with LMWH over unfractionated heparin, unless the risk of bleeding outweighs the risk of thrombosis. In the setting of heparin-induced thrombocytopenia, fondaparinux is recommended. Dose adjustment for obesity may be used per institutional guidance. In patients where anticoagulants are contraindicated or unavailable, mechanical thromboprophylaxis (e.g. pneumatic compression devices) is recommended. Combined pharmacologic and mechanical prophylaxis is not generally recommended.

PUBLIC HEALTH UPDATE

- Dr Scott Morrow, San Mateo County's Health Officer, [issued a statement on August 6th](#) regarding the recent inclusion of San Mateo County in the state's COVID-19 Monitoring List and urging residents to use facial coverings extensively, to adhere to social distancing and to not attend gatherings outside of their immediate household.

RESOURCES

- [CDC MMWR Weekly COVID-19 Briefing](#) is a weekly podcast to update readers on the latest scientific information from CDC's COVID-19 response. In each episode, MMWR's Editor-in-Chief, Dr. Charlotte Kent provides an overview of the latest scientific information published in MMWR. New episodes are posted every Monday.
- [This Week in Virology \(TWiV\) Podcast: Test often, fast turnaround, with Michael Mina](#) - Dr Mina joins TWiV to reveal why frequent and rapid SARS-CoV-2 testing is more important than accuracy, how a daily \$1 rapid test could control the pandemic, and why group testing works

ACADEMIC/RESEARCH PAPERS

- *Public Health England*
 - [Evaluation of sensitivity and specificity of four commercially available SARS-CoV-2 antibody immunoassays](#)
- *medRxiv*
 - [Changes in SARS-CoV-2 Antibody Responses Impact the Estimates of Infections in Population-Based Seroprevalence Studies](#)
 - [Humoral Response Dynamics Following Infection with SARS-CoV-2](#)
- *Nature Medicine*
 - [Clinical and immunological assessment of asymptomatic SARS-CoV-2 infections](#)





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- *American Journal of Physiology*
 - [Decoding SARS-CoV-2 hijacking of host mitochondria in COVID-19 pathogenesis](#)
- *Science Immunology*
 - [SARS-CoV-2 seroprevalence among parturient women in Philadelphia](#)
- *Pediatrics*
 - [Racial/Ethnic and Socioeconomic Disparities of SARS-CoV-2 Infection Among Children](#)
- *The Lancet*
 - [Household secondary attack rate of COVID-19 and associated determinants in Guangzhou, China: a retrospective cohort study](#)
 - [Transmission of SARS-CoV-2 in Australian Educational Settings: A Prospective Cohort Study](#)
- *JAMA*
 - [COVID-19 and Dexamethasone - A Potential Strategy to Avoid Steroid Related Strongyloides Hyperinfection](#)
 - [Recovery From Severe COVID-19 - Leveraging the Lessons of Survival From Sepsis](#)
 - [Estimation of Viral Aerosol Emissions From Simulated Individuals With Asymptomatic to Moderate Coronavirus Disease 2019](#)
 - [COVID-19 and School Closures](#)
 - [Association Between Statewide School Closure and COVID-19 Incidence and Mortality in the US](#)
 - [Reopening K-12 Schools During the COVID-19 Pandemic - A Report From the National Academies of Sciences, Engineering, and Medicine](#)
 - [Assessment of SARS-CoV-2 Screening Strategies to Permit the Safe Reopening of College Campuses in the United States](#)
 - [Women Physicians and the COVID-19 Pandemic](#)
 - [Attacks on Public Health Officials During COVID-19](#)
- *JAMA Internal Medicine*
 - [Estimation of Excess Deaths Associated With the COVID-19 Pandemic in the United States, March to May 2020](#)
 - [Preventing COVID-19 in Assisted Living Facilities—A Balancing Act](#)
 - [Trends in Emergency Department Visits and Hospital Admissions in Health Care Systems in 5 States in the First Months of the COVID-19 Pandemic in the US](#)
 - [COVID-19 in Prisons and Jails in the United States](#)
 - [Assessment of Deaths From COVID-19 and From Seasonal Influenza](#)
 - [The Risks of Prescribing Hydroxychloroquine for Treatment of COVID-19—First, Do No Harm](#)
 - [Clinical Course and Molecular Viral Shedding Among Asymptomatic and Symptomatic Patients With SARS-CoV-2 Infection in a Community Treatment Center in the Republic of Korea](#)
- *Cleveland Clinic Journal of Medicine*
 - [Management of patients with COVID-19 in the medical ICU](#)
 - [Cardiopulmonary resuscitation in COVID-19 patients](#)
 - [COVID-19 and your rheumatology patients](#)
 - [Recognition and management of respiratory coinfection and secondary bacterial pneumonia in patients with COVID-19](#)
 - [Hyperglycemia management in hospitalized patients with COVID-19](#)
- *JAMA Ophthalmology*
 - [Detection of Coronavirus Disease 2019 Viral Material on Environmental Surfaces of an Ophthalmology Examination Room](#)

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- *PNAS*
 - [Social distancing responses to COVID-19 emergency declarations strongly differentiated by income](#)
- *CDC Emerging Infectious Diseases*
 - [SARS-CoV-2 Virus Culture and Subgenomic RNA for Respiratory Specimens from Patients with Mild Coronavirus Disease](#)
 - [Using Virus Sequencing to Determine Source of SARS-CoV-2 Transmission for Healthcare Worker](#)

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MMWR

- [COVID-19 Outbreak Among Employees at a Meat Processing Facility — South Dakota, March–April 2020](#)
- [COVID-19–Associated Multisystem Inflammatory Syndrome in Children — United States, March–July 2020](#)
- [Hospitalization Rates and Characteristics of Children Aged <18 Years Hospitalized with Laboratory-Confirmed COVID-19 — COVID-NET, 14 States, March 1–July 25, 2020](#)

HOT OFF THE (LAY) PRESS

- *Harvard Magazine*
 - [Failing the Coronavirus-Testing Test](#)
- *The New York Times*
 - [A Cheap, Simple Way to Control the Coronavirus - With easy-to-use tests, everyone can check themselves every day.](#)
 - [The Unique U.S. Failure to Control the Virus](#)
 - [Two preliminary studies of an experimental coronavirus vaccine yielded encouraging results, the Maryland-based company Novavax announced.](#)
 - [As Trump Praises Plasma, Researchers Struggle to Finish Critical Studies](#)
 - [Your Coronavirus Antibodies Are Disappearing. Should You Care?](#)
 - [Scientists Uncover Biological Signatures of the Worst Covid-19 Cases Studies of patients with severe cases of Covid-19 show the immune system lacks its usual coordinated response.](#)
 - [The Mask Slackers of 1918](#)
 - [The Last California County Without a Coronavirus Case](#)
 - [Google Promises Privacy With Virus App but Can Still Collect Location Data](#)
 - [Can N.Y.C. Reopen Schools? The Whole Country Is Watching](#)
 - [The Risk That Students Could Arrive at School With the Coronavirus](#)
- *JAMA Health Forum*
 - [National Academies Offers Guidance on Reopening Schools Amid COVID-19 Pandemic](#)
- *STAT News*
 - [Ventilation should be part of the conversation on school reopening. Why isn't it?](#)
- *The Mercury News*
 - [The COVID-19 Pod Problem: Desperate Bay Area parents seek imperfect schooling solutions](#)
- *Reuters*
 - [Next big COVID-19 treatment may be manufactured antibodies](#)
- *CNN*
 - [US obesity epidemic could undermine effectiveness of a Covid-19 vaccine](#)
- *The Atlantic*
 - [The Pandemic Experts Are Not Okay- Many American public-health specialists are at risk of burning out as the coronavirus surges back.](#)





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- *Medpage Today*
 - [No Evidence That Doctor Group in Viral Video Got Near COVID 'Front Lines'— Who are the physicians behind America's Frontline Doctors?](#)
 - [Let's Talk about COVID's VTE Risk for Women on the Pill— No data and a lot of questions](#)
- *AP News*
 - [Trump nursing home plan limits supply of free COVID-19 tests](#)
- *The New Yorker*
 - [The Uncertainties Facing New York City's Young Essential Workers](#)
 - [How Did I Catch the Coronavirus?](#)
 - [America's Coronavirus Endurance Test](#)
- *The Washington Post*
 - [This Summer Camp Took Extraordinary COVID-19 Precautions. It still Failed.](#)
 - [San Francisco flattened the curve early. Now, coronavirus cases are surging.](#)
- *San Francisco Chronicle*
 - [Is California undercounting coronavirus cases? Major tech glitch hampering data collection](#)
 - [California's coronavirus response is in crisis mode, as computer glitch makes case data unreliable](#)
 - [California surpasses 500,000 coronavirus cases, capping off deadliest month yet](#)
 - ['We get inundated': Bay Area health care workers demand more staffing, gear in national coronavirus rally](#)
 - [Got COVID-19? If you live in Alameda County, you might get paid to stay home](#)
 - [California's elementary-school reopening rules may favor private schools, charters](#)
 - [Bay Area elementary schools could reopen for in-person classes. Here's how](#)
 - [San Mateo County indoor businesses ordered to close after efforts to negotiate reprieve fail](#)

EPIDEMILOGY UPDATES

- **US Leads the World in Confirmed COVID-19 Cases** per [Johns Hopkins University Center for Systems Science and Engineering Dashboard Website](#)
- **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 August 13, 2020](#)
- [San Mateo County COVID-19 Dashboard](#)
- [Santa Clara County COVID-19 Dashboard](#)

ADDITIONAL COVID-19 RESOURCES

- [Palo Alto Online tracking the coronavirus in San Mateo and Santa Clara counties](#)
- [COVID-19 California Statewide Case Statistics](#)
- [CDPH COVID-19 Assessment and Modeling Tool](#)
- [California Department of Corrections and Rehabilitation Population COVID-19 Tracking Dashboards](#)
- [COVID-19 Nursing Home Data](#)
- [CDC Interactive Serology Dashboard for Commercial Laboratory Surveys](#)
- [HHS Coronavirus Data Hub](#)

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