



COVID-19 Digest Issue 44

February 26, 2021

CLINICAL PEARL

- **COVID-19 and thrombosis:** Although respiratory manifestations predominate in patients with COVID-19, other systems can also be affected. Early in the pandemic, international reports suggested a high rate of venous thromboembolism (VTE). These reports were confounded by a lack of uniform use of VTE prophylaxis, heterogeneous populations (ICU vs non-ICU patients), and lack of prospective evaluation for VTE. As the pandemic has progressed, additional data suggests the **incidence of VTE in hospitalized patients with COVID-19 is high, [with reported incidences of up to 16% in the U.S.](#)** Autopsy series performed in patients who had severe disease have found evidence of small vessel thrombosis and microangiopathy in the lungs, as well as VTE.

Procoagulant responses likely result from [specific interactions between host defense mechanisms and the coagulation system](#). Multiple mechanisms may be implicated in COVID-19 patients who develop a pro-coagulative state. D-dimer is often elevated, and several case series/reports have noted [increased factor VIII and von Willebrand factor](#), [complement activation](#), [platelet activation](#), [increase in fibrinogen](#), and [neutrophil extracellular traps](#). Some studies have found antiphospholipid antibodies in patients with COVID-19 as well as [heparin resistance](#).

[The American Thoracic Society recommends](#) that all hospitalized patients with COVID-19 receive thromboprophylaxis therapy, unless otherwise contraindicated.

- **Low-molecular-weight heparin or fondaparinux** should be used for thromboprophylaxis over unfractionated heparin and direct oral anticoagulants.
- There is **insufficient data to justify routine increased intensity anticoagulant dosing** in hospitalized or critically ill COVID-19 patients.
- **Thromboprophylaxis for COVID-19 patients is not indicated in the outpatient setting.**
- Critically ill COVID-19 patients with proximal DVT or pulmonary embolism, should receive parenteral anticoagulation therapy with therapeutic weight adjusted low-molecular-weight heparin or fondaparinux over unfractionated heparin.

PUBLIC HEALTH UPDATES

- USDA and FDA: [USDA, FDA Underscore Current Epidemiologic and Scientific Information Indicating No Transmission of COVID-19 Through Food or Food Packaging](#)
- FDA [Issues Policies to Guide Medical Product Developers Addressing Virus Variants](#)
- FDA [Authorizes Monoclonal Antibodies for Treatment of COVID-19](#)
- UK: [Updated New and Emerging Respiratory Virus Threats Advisory Group \(NERVTAG\) Report on B.1.1.7 Severity](#)

GUIDANCE/GUIDELINES

- IDSA Updated [Guidelines on the Treatment and Management of Patients with COVID-19](#)
- U.S. Department of Health and Human Services ASPR [Monoclonal Antibody Treatment for High Risk Covid-19 Positive Patients](#) Factsheet and [COVID-19 Therapeutics for Patients](#) webpage





COVID-19 Digest Issue 44

RESOURCES

- CDC [Transitioning from CDC's Indicators for Dynamic School Decision-Making \(released September 15, 2020\) to CDC's Operational Strategy for K-12 Schools through Phased Mitigation \(released February 12, 2021\) to Reduce COVID-19](#)
- U.S. Department of Education [COVID-19 Handbook Volume 1: Strategies for Safely Reopening Elementary and Secondary Schools](#)
- CDC/IDSA COVID-19 Clinician Call
 - [Emerging SARS-CoV-2 Variants: Updates & Implications](#)
 - [New Monoclonal Antibody EUA, New Data on Treatment Dispensing and More Vaccine Q&A](#)
- CDC/IDSA COVID-19 Real-Time Learning Network updated [Vaccines FAQ](#)
- IDSA
 - Media Briefing: [COVID "Long Haulers"](#)
 - Apple Podcasts:
 - [Long COVID and the Road to Recovery](#)
 - [Vaccinating Individuals with Prior COVID-19](#)
- JAMA Network
 - [Coronavirus Vaccination in Pregnant and Breastfeeding Individuals](#)
 - [Vaccinating Nursing Home and Long-term Care Facility Residents for Coronavirus](#)
 - [Coronavirus mRNA Vaccine Safety and Efficacy](#)
 - [Mask Wearing for COVID-19 Prevention—Summary of CDC Data](#)
- UCSF School of Medicine Grand Rounds [The New Vaccines, Attitudes Toward Vaccination, and the Biden Covid-19 Task Force](#)
- CIDRAP Osterholm COVID-19 Update: [Hurricane Warning](#)
- [The Emotional PPE Project](#)

ACADEMIC/RESEARCH PAPERS

- *medRxiv*
 - [Antibodies elicited by SARS-CoV-2 infection and boosted by vaccination neutralize an emerging variant and SARS-CoV-1](#)
 - [Poor antigen-specific responses to the second BNT162b2 mRNA vaccine dose in SARS-CoV-2-experienced individuals](#)
 - [Single Dose Vaccination in Healthcare Workers Previously Infected with SARS-CoV-2](#)
 - [Inhaled budesonide in the treatment of early COVID-19 illness: a randomised controlled trial](#)
 - [Tocilizumab in patients admitted to hospital with COVID-19 \(RECOVERY\): preliminary results of a randomised, controlled, open-label, platform trial](#)
- *SSRN Preprints with The Lancet*
 - [Effectiveness of BNT162b2 mRNA Vaccine Against Infection and COVID-19 Vaccine Coverage in Healthcare Workers in England, Multicentre Prospective Cohort Study \(the SIREN Study\)](#)
- *New England Journal of Medicine*
 - [Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine](#)
- *Transplantation*
 - [Safety of the First Dose of SARS-CoV-2 Vaccination in Solid Organ Transplant Recipients](#)





COVID-19 Digest Issue 44

- *Science*
 - [Prospective mapping of viral mutations that escape antibodies used to treat COVID-19](#)
 - [Intranasal fusion inhibitory lipopeptide prevents direct-contact SARS-CoV-2 transmission in ferrets](#)
- *Emerging Infectious Diseases*
 - [Genomic Evidence of SARS-CoV-2 Reinfection Involving E484K Spike Mutation, Brazil](#)
- *JAMA*
 - [Emergence of a Novel SARS-CoV-2 Variant in Southern California](#)
 - [SARS-CoV-2 Positivity on or After 9 Days Among Quarantined Student Contacts of Confirmed Cases](#)
 - [Sequelae in Adults at 6 Months After COVID-19 Infection](#)
 - [Effect of High-Dose Zinc and Ascorbic Acid Supplementation vs Usual Care on Symptom Length and Reduction Among Ambulatory Patients With SARS-CoV-2 Infection - The COVID A to Z Randomized Clinical Trial](#)
 - [Factors Associated With Racial Differences in Deaths Among Nursing Home Residents With COVID-19 Infection in the US](#)
 - [Association of SARS-CoV-2 Seropositive Antibody Test With Risk of Future Infection](#)
 - [Characteristics and Outcomes of US Children and Adolescents With Multisystem Inflammatory Syndrome in Children \(MIS-C\) Compared With Severe Acute COVID-19](#)
- *Clinical Infectious Diseases*
 - [Severe reinfection with South African SARS-CoV-2 variant 501Y.V2: A case report](#)
 - [Clinical and Laboratory Findings in Patients with Potential SARS-CoV-2 Reinfection, May–July 2020](#)
 - [Association Between Chronic Use of Immunosuppressive Drugs and Clinical Outcomes From Coronavirus Disease 2019 \(COVID-19\) Hospitalization: A Retrospective Cohort Study in a Large US Health System](#)
 - [The Impact of State Mask-Wearing Requirements on the Growth of COVID-19 Cases, Hospitalizations, and Deaths in the United States](#)
- *The Journal of Infectious Diseases*
 - [Association Between Upper Respiratory Tract Viral Load, Comorbidities, Disease Severity, and Outcome of Patients With SARS-CoV-2 Infection](#)
 - [Viral load of SARS-CoV-2 in adults during the first and second wave of COVID-19 pandemic in Houston, TX: the potential of the super-spreader](#)
 - [Long term SARS-CoV-2 infectiousness among three immunocompromised patients: from prolonged viral shedding to SARS-CoV-2 superinfection](#)
- *Cell*
 - [Seasonal human coronavirus antibodies are boosted upon SARS-CoV-2 infection but not associated with protection](#)
- *Annals of Internal Medicine*
 - [Inclusion of Pregnant and Lactating Persons in COVID-19 Vaccination Efforts](#)
 - [Annals On Call - Pregnancy, Lactation, and the COVID-19 Vaccines](#)
 - [Should Remdesivir Be Used for the Treatment of Patients With COVID-19? Rapid, Living Practice Points From the American College of Physicians \(Version 2\)](#)
- *Open Forum Infectious Diseases*
 - [Bacterial superinfections among persons with coronavirus disease 2019: A comprehensive review of data from postmortem studies](#)
 - [Cutaneous findings in SARS-CoV-2-associated Multisystem Inflammatory Disease in Children \(MIS-C\)](#)





COVID-19 Digest Issue 44

- *The Lancet*
 - [SARS-CoV-2 transmission among children and staff in daycare centres during a nationwide lockdown in France: a cross-sectional, multicentre, seroprevalence study](#)
 - [Peginterferon lambda for the treatment of outpatients with COVID-19: a phase 2, placebo-controlled randomised trial](#)
- *Environmental Research*
 - [Estimating aerosol transmission risk of SARS-CoV-2 in New York City public schools during reopening](#)
- *The Journal of the Alzheimer's Association*
 - [COVID-19 and dementia: Analyses of risk, disparity, and outcomes from electronic health records in the US](#)
- *Age and Ageing*
 - [Age and frailty are independently associated with increased COVID-19 mortality and increased care needs in survivors: results of an international multi-centre study](#)
- *European Journal of Radiology*
 - [A Multi-Center Study of COVID-19 Patient Prognosis Using Deep Learning-based CT Image Analysis and Electronic Health Records](#)
- *BMJ Journals*
 - [Covid-19 deaths in Africa: prospective systematic postmortem surveillance study](#)
- *CMAJ*
 - [Characteristics and outcomes of hospital admissions for COVID-19 and influenza in the Toronto area](#)
- *UCLA Report*
 - [The Impact of the Fall 2020 COVID-19 Surge on LGBT Adults in the US](#)

MMWR

- [First Month of COVID-19 Vaccine Safety Monitoring — United States, December 14, 2020–January 13, 2021](#)
- [Clusters of SARS-CoV-2 Infection Among Elementary School Educators and Students in One School District — Georgia, December 2020–January 2021](#)
- [COVID-19 Outbreak Among Attendees of an Exercise Facility — Chicago, Illinois, August–September 2020](#)
- [Community Transmission of SARS-CoV-2 at Three Fitness Facilities — Hawaii, June–July 2020](#)
- [Suspected Recurrent SARS-CoV-2 Infections Among Residents of a Skilled Nursing Facility During a Second COVID-19 Outbreak — Kentucky, July–November 2020](#)

HOT OFF THE (LAY) PRESS

- *Bloomberg*
 - [Pfizer-BioNTech Shot Stops Covid Spread, Israeli Study Shows](#)
- *AP News*
 - [France recommends 1-shot vaccine for people who had virus](#)
- *New York Times*
 - [People Who Have Had Covid Should Get Single Vaccine Dose, Studies Suggest](#)
 - [Johnson & Johnson's vaccine strongly protects against severe Covid-19 and may reduce the spread of the virus by vaccinated people, new analyses found.](#)
 - [It's 'double time' for U.S. vaccinators after a week of winter storm delays](#)
 - [U.K. Approves Study That Will Deliberately Infect Volunteers With Coronavirus](#)
 - [Vaccine alarmism - A vaccine shot? No thank you](#)
 - [Could a Single Vaccine Work Against All Coronaviruses?](#)





COVID-19 Digest Issue 44

- [When Could the United States Reach Herd Immunity? It's Complicated](#)
- [No 'Covid Zero,' but Normalcy](#)
- [Studies Examine Variant Surging in California, and the News Isn't Good](#)
- [California's legislature pushes \\$12.6 billion plan to open schools](#)
- [How to get students back in school](#)
- [Scientists Call on C.D.C. to Set Air Standards for Workplaces, Now](#)
- [Covid-Linked Syndrome in Children Is Growing, and Cases Are More Severe](#)
- [New Findings on 2 Ways Children Become Seriously Ill From the Coronavirus](#)
- [U.K. Virus Variant Is Probably Deadlier, Scientists Say](#)
- [The Pandemic Is Receding in the Worst Hotspots. Will It Last?](#)
- [Nursing Homes, Once Hotspots, Far Outpace U.S. in Covid Declines](#)
- [Entering uncharted territory, the U.S. counts 500,000 Covid-related deaths](#)
- *National Geographic*
 - [Visualizing 500,000 deaths from COVID-19 in the U.S.](#)
- *The New Yorker*
 - [Why Is the Pandemic Hitting Some Countries Harder Than Others?](#)
 - [How Restaurants Survive the Long Pandemic Winter](#)
- *Mayo Clinic News*
 - [Screening mammograms and COVID-19 vaccine](#)
- *Cure News*
 - [National Organization Recommends Women Delay Mammogram Screening Following COVID-19 Vaccine](#)
- *Reuters*
 - [CanSinoBio's COVID-19 vaccine 65.7% effective in global trials, Pakistan official says](#)
 - [Sinovac vaccine works on UK, South African variants - Brazil institute](#)
 - [Becton Dickinson's combination test for COVID-19 gets FDA authorization](#)
 - [Pulse oximeters should not be used to diagnose COVID-19, U.S. FDA says](#)
 - [Roche arthritis drug reduces COVID-19 deaths in trial in hospitalised patients](#)
- *Infectious Disease Advisor*
 - [FDA Fast Tracks Brilacidin for COVID-19 Treatment](#)
- *Veru Press Release*
 - [Veru Reports Positive Phase 2 Clinical Results of VERU-111 in Hospitalized COVID-19 Patients at High Risk for Acute Respiratory Distress Syndrome](#)
- *The Hill*
 - [Cancer drug could reduce COVID-19 deaths, study finds](#)
- *NPR*
 - [Why The Johnson & Johnson Vaccine Has Gotten A Bad Rap — And Why That's Not Fair](#)
 - [Why Native Americans Are Getting COVID-19 Vaccines Faster](#)
 - [Race Versus Time: Targeting Vaccine To The Most Vulnerable Is No Speedy Task](#)
 - [Instagram Bars Robert F. Kennedy Jr. For Spreading Vaccine Misinformation](#)
 - [CDC Launches Web Tool To Help Americans Find COVID-19 Vaccines](#)
- *Lookout*
 - [Besides preventing symptoms, do vaccines combat COVID-19's spread? A UCSC expert thinks so](#)





COVID-19 Digest Issue 44

- *Los Angeles Times*
 - [Johnson & Johnson one-dose vaccine offers safe, effective COVID-19 protection, FDA says](#)
 - [Governor admits problems with vaccine rollout in Latino and Black communities.](#)
 - [California tops 50,000 COVID-19 deaths amid fears of new variants.](#)
- *Mercury News*
 - [Kaiser is expanding who it's vaccinating, finally offering vaccine appointments to members who are 65 or older.](#)
- *KQED*
 - [Youth Sports Will Be Able to Resume in Two Dozen California Counties](#)
 - [Trusted Leaders Are Fighting COVID-19 Vaccine Fears in Black and Latino Communities](#)
 - [Many Homebound People Still Waiting for Vaccine](#)
 - ['Not Enough': Newsom Says More Vaccine Doses Needed, As State Transitions to New Centralized System](#)
 - [Gov. Newsom Signs \\$7.6 Billion COVID-19 Relief Package](#)
- *San Francisco Chronicle*
 - [3 Bay Area counties halt COVID vaccine supply to One Medical, saying it let people cut the line](#)
 - [Costco begins offering coronavirus vaccines at Bay Area store \(In Marin\)](#)
 - [In Bay Area nursing homes, 'the vaccine is already saving lives'](#)
 - [California sets aside 10% of vaccines for teachers, child care workers starting in March](#)
 - [Vaccine access codes meant for underserved communities used by privileged, healthy Californians](#)
 - [California may not reach herd immunity for years. But vaccines will make the coronavirus more manageable](#)
 - [As nation marks half a million deaths, concerns rise over new California coronavirus variant](#)
 - [More children suffer ailment linked to virus after Bay Area's winter surge in infections](#)
 - [California's positivity rate drops sharply, a promising indicator for reopening](#)
 - [Here's how close each Bay Area county is to reaching the red reopening tier](#)
 - [San Mateo, Marin counties advancing into red reopening tier; S.F. stays purple for now](#)
- *CBS*
 - [Restaurants, Gyms Getting Ready For Red Tier Status In San Mateo County](#)

EPIDEMIOLOGY UPDATES

- **CDC COVID Data Tracker**
 - [CDC COVID-19 Forecasts: Deaths](#)
 - [United States COVID-19 Cases and Deaths by State](#)
 - [CDC COVID Data Tracker: Vaccinations](#)
 - **NEW** - [CDC US COVID-19 Cases Caused by Variants](#)
- **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 February 26, 2021**
- [San Mateo County COVID-19 Dashboard](#)
- [Santa Clara County COVID-19 Dashboard](#)





SAN MATEO COUNTY HEALTH

PUBLIC HEALTH, POLICY & PLANNING

COVID-19 Digest Issue 44

Dr. Scott Morrow, Health Officer
Cassius Lockett, PhD, Director

Public Health, Policy & Planning
225 37th Avenue
San Mateo, CA 94403
smchealth.org

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](#)
- [CDC COVID-19 Forecasts: Deaths](#)
- [Children and COVID-19: State-Level Data Report](#)

