



## COVID-19 Digest Issue 14

July 30, 2020

### CLINICAL PEARL

- **Antigen Assays to detect SARS-CoV-2:** Antigen tests can provide relatively rapid results; however, they are not as sensitive as nucleic acid amplification assays such as PCR. Thus, **positive results tend to be highly accurate, but a negative result may be a false negative.** Negative results by an antigen test should be considered as presumptive negative and if necessary for clinical management or infection control, **negative antigen test results should be confirmed using a molecular assay with FDA Emergency Use Authorization (EUA) for SARS-CoV-2 detection.**
  - Antigen tests are NOT recommended for screening of asymptomatic individuals or screening of healthcare workers, first responders and other essential personnel.
  - The Association of Public Health Laboratories (APHL) has published a [guidance document](#) on the use of antigen tests.

### PUBLIC HEALTH UPDATE

- The San Mateo County Communicable Disease Control Program has been using a symptom-based approach to determine when an individual with SARS-CoV-2 infection is no longer infectious (e.g., to discontinue Transmission-Based Precautions or home isolation) since the beginning of the COVID-19 outbreak. As of July 17, 2020, except in rare situations, **CDC no longer recommends using a test-based strategy either.**

### GUIDELINES

- [Infectious Diseases Society of America Guidelines on the Treatment and Management of Patients with COVID-19](#)
  - UPDATE (6/25/20): [Recommendations on corticosteroids](#) have been revised.
  - UPDATE (6/22/20): Version 2.0.0 of the guideline has been released and contains:
    - Revised recommendations on [hydroxychloroquine and hydroxychloroquine plus azithromycin](#)
    - Revised recommendations for [convalescent plasma](#) for treatment of COVID-19
    - New recommendations on the use of [remdesivir](#)
    - New recommendations for [famotidine](#) (not addressed in the prior version)

### RESOURCE

- [Cleveland Clinic Journal of Medicine Curbside Consults Overview](#) address key questions, issues, and concerns and, hopefully, offer solutions to managing patients with COVID-19. "COVID-19 Curbside Consults" are authored by clinicians who confront this infection daily.

### ACADEMIC/RESEARCH PAPERS

- *The Lancet*
  - [Safety and immunogenicity of the ChAdOx1 nCoV-19 vaccine against SARS-CoV-2: a preliminary report of a phase 1/2, single-blind, randomised controlled trial](#)
  - [Immunogenicity and safety of a recombinant adenovirus type-5-vectored COVID-19 vaccine in healthy adults aged 18 years or older: a randomised, double-blind, placebo-controlled, phase 2 trial](#)





## COVID-19 Digest Issue 14

- [The experiences of health-care providers during the COVID-19 crisis in China: a qualitative study](#)
- *Academic Emergency Medicine*
  - [Physicians' Anxiety Levels, Stressors, and Potential Stress Mitigation Measures During the Acceleration Phase of the COVID-19 Pandemic](#)
- *medRxiv*
  - [Concurrent human antibody and TH1 type T-cell responses elicited by a COVID-19 RNA vaccine](#)
  - [Pericarditis and myocarditis long after SARS-CoV-2 infection: a cross-sectional descriptive study in health-care workers](#)
  - [COVID-19 Mortality Risk Assessment: An International Multi-Center Study](#)
  - [Rapid and extraction-free detection of SARS-CoV-2 from saliva with colorimetric LAMP](#)
  - [The Infectious Nature of Patient-Generated SARS-CoV-2 Aerosol](#)
- *Journal of Breath Research*
  - [The scientific rationale for the use of simple masks or improvised facial coverings to trap exhaled aerosols and possibly reduce the breathborne spread of COVID-19](#)
- *Journal of the American College of Cardiology*
  - [COVID-19 and Thrombotic or Thromboembolic Disease: Implications for Prevention, Antithrombotic Therapy, and Follow-Up: JACC State-of-the-Art Review](#)
  - [High Thrombus Burden in Patients with COVID-19 Presenting with ST-Elevation Myocardial Infarction](#)
- *JAMA*
  - [Thrombosis in Hospitalized Patients With COVID-19 in a New York City Health System](#)
  - [Seroprevalence of Antibodies to SARS-CoV-2 in 10 Sites in the United States, March 23-May 12, 2020](#)
  - [Risk Factors Associated With Mortality Among Residents With Coronavirus Disease 2019 \(COVID-19\) in Long-term Care Facilities in Ontario, Canada](#)
- *Cleveland Clinic Journal of Medicine*
  - [Utility of extracorporeal membrane oxygenation in COVID-19](#)
- *New England Journal of Medicine*
  - [Hydroxychloroquine with or without Azithromycin in Mild-to-Moderate Covid-19](#)
- *Clinical Microbiology and Infection*
  - [Viable SARS-CoV-2 in various specimens from COVID-19 patients](#)
- *PLOS Medicine*
  - [Impact of self-imposed prevention measures and short-term government-imposed social distancing on mitigating and delaying a COVID-19 epidemic: A modelling study](#)
- *Annals of Internal Medicine*
  - [Feasibility of Separate Rooms for Home Isolation and Quarantine for COVID-19 in the United States](#)
- *CDC Emerging Infectious Diseases*
  - [Collateral Benefit of COVID-19 Control Measures on Influenza Activity, Taiwan](#)
  - [Contact Tracing during Coronavirus Disease Outbreak, South Korea, 2020](#)

## MMWR

- [Population Point Prevalence of SARS-CoV-2 Infection Based on a Statewide Random Sample — Indiana, April 25–29, 2020](#)
- [Estimated Community Seroprevalence of SARS-CoV-2 Antibodies — Two Georgia Counties, April 28 –May 3, 2020](#)





## COVID-19 Digest Issue 14

- [Notes from the Field: Effects of the COVID-19 Response on Tuberculosis Prevention and Control Efforts — United States, March–April 2020](#)
- [Symptom Duration and Risk Factors for Delayed Return to Usual Health Among Outpatients with COVID-19 in a Multistate Health Care Systems Network — United States, March–June 2020](#)

### HOT OFF THE (LAY) PRESS

- *The New York Times*
  - [Spike in U.S. Cases Far Outpaces Testing Expansion](#)
  - [President Trump pivoted from rosy projections about the virus, saying it would “get worse before it gets better” and urging Americans to wear masks.](#)
  - [For the first time in July, the United States recorded more than 1,000 coronavirus deaths in one day.](#)
  - [U.S. Northeast, Pummeled in the Spring, Now Stands Out in Virus Control](#)
  - ["Emotional Whiplash": California, the first state to issue a stay-at-home order helping to control an early outbreak, has now surpassed New York to have the most recorded cases of any state](#)
  - [Can You Get Covid-19 Again? It's Very Unlikely, Experts Say](#)
  - [Coronavirus Vaccine Tracker](#)
  - [Research Shows Students Falling Months Behind During Virus Disruptions](#)
  - [Older Children Spread the Coronavirus Just as Much as Adults, Large Study Finds](#)
  - [The C.D.C. issued a full-throated call to reopen schools, downplaying the health risks, after President Trump criticized its earlier recommendations.](#)
  - [When Is It Safe for Schools to Reopen in California?](#)
- *Medpage Today*
  - [HHS Rolls Out New COVID-19 Data Dashboard— Replaces CDC repository in a move that didn't sit well with medical groups](#)
  - [Dialysis Services at Breaking Point With COVID-19— Shortage of supplies, machines for surge areas](#)
  - [COVID-Positive Doc: 'I Didn't Wear a Mask and I Regret It'— Outdoor gathering leads to COVID spread among family members](#)
- *Kaiser Health News*
  - [Why Doctors Keep Monitoring Kids Who Recover From Mysterious COVID-Linked Illness](#)
  - [Essential and in Danger: Coronavirus Sickens, Even Kills Public Health Workers](#)
- *FiveThirtyEight*
  - [Want A COVID-19 Test? It's Much Easier To Get In Wealthier, Whiter Neighborhoods But the disease is hitting Black and Hispanic communities hardest.](#)
- *AP News*
  - [Silent spread of virus keeps scientists grasping for clues](#)
- *USA Today*
  - [Sweden hoped herd immunity would curb COVID-19. Don't do what we did. It's not working.](#)
- *Reuters*
  - [Swedish antibody study shows long road to immunity as COVID-19 toll mounts](#)
- *Wired*
  - [Everything You Need to Know About the Oxford Covid-19 Vaccine](#)
- *Physician's Weekly*
  - [Covid-19: Early, Promising Results for Three Vaccines](#)
- *The Mercury News*
  - [Newsom announces contract for 400 million more masks amid new concerns about California's hospital capacity](#)





SAN MATEO COUNTY HEALTH

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- *San Francisco Chronicle*
  - [Coronavirus live updates: California suffers record number of deaths in a single day](#)
  - [California reports record daily cases, passes New York for most in U.S.](#)
  - [Record number of coronavirus cases in California spur debate over new restrictions](#)
  - [Stanford's new coronavirus testing method could significantly speed up efforts to identify cases](#)
  - [Antibody study finds coronavirus infections may have been 10 times higher in Bay Area](#)
  - [Not following health rules in Marin County? You could pay fines up to \\$10,000](#)
  - [Child care is on the verge of collapse in the Bay Area. Can parents go back to work?](#)

#### EPIDEMIOLOGY 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 July 30, 2020**
- **[San Mateo County COVID-19 Dashboard](#)**
  - **[San Mateo County Metric Scorecards – Public Health Indicators for Assessing Progress on Containing COVID-19](#)**
- **[Santa Clara County COVID-19 Dashboard](#)**

#### ADDITIONAL COVID-19 RESOURCES

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

