



## COVID-19 Digest Issue 12

July 14, 2020

### CLINICAL PEARL

- **COVID-19 and waning immunity: Immunity to the circulating seasonal coronaviruses that are associated with common colds is short-lived. While antibody (Ab) responses to SARS-CoV-2 can be detected in most infected individuals 10-15 days following the onset of COVID-19 symptoms, it is not known how long these Ab responses are maintained or whether they provide protection from reinfection.**
  - [A recent pre-print study](#) has shown seroconversion in more than 95% of cases and neutralizing antibody (nAb) responses when sampled beyond 8 days after the onset of symptoms.
  - **The magnitude of the nAb response appears to be dependent upon the disease severity. Declining nAb titers were observed during the follow-up period. Whether individuals with apparent waning immunity will have an anamnestic response when challenged with the antigen is unknown at this point.**

### ACADEMIC/RESEARCH PAPERS

- *CDC Emerging Infectious Diseases*
  - [Antibody Responses to SARS-CoV-2 at 8 Weeks Postinfection in Asymptomatic Patients](#)
- *medRxiv*
  - [Longitudinal evaluation and decline of antibody responses in SARS-CoV-2 infection](#)
  - [Children are unlikely to have been the primary source of household SARS-CoV-2 infections](#)
- *Journal of the Pediatric Infectious Diseases Society*
  - [Characteristics of Hospitalized Pediatric Coronavirus Disease 2019 Cases in Chicago, Illinois, March–April 2020](#)
- *Pediatrics*
  - [COVID-19 in Children and the Dynamics of Infection in Families](#)
- *Nature Medicine*
  - [Age-dependent effects in the transmission and control of COVID-19 epidemics](#)
- *Clinical Infectious Diseases*
  - [Social distancing alters the clinical course of COVID-19 in young adults: A comparative cohort study](#)
  - [Use of Baricitinib in Patients with Moderate and Severe COVID-19](#)
- *New England Journal of Medicine*
  - [Children with Covid-19 in Pediatric Emergency Departments in Italy](#)
  - [Swabs Collected by Patients or Health Care Workers for SARS-CoV-2 Testing](#)
  - [Accelerating Development of SARS-CoV-2 Vaccines — The Role for Controlled Human Infection Models](#)
- *Cleveland Clinic Journal of Medicine*
  - [Clinical presentation and course of COVID-19](#)
  - [Cytokine storm and the prospects for immunotherapy with COVID-19](#)
- *AHA Journal*
  - [Lopinavir-ritonavir Treatment for COVID-19 Infection in Intensive Care Unit: Risk of Bradycardia](#)
- *JAMA*
  - [Pathophysiology, Transmission, Diagnosis, and Treatment of Coronavirus Disease 2019 \(COVID-19\) - A Review](#)
  - [Incidence of Stress Cardiomyopathy During the Coronavirus Disease 2019 Pandemic](#)





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- [Persistent Symptoms in Patients After Acute COVID-19](#)
- [Evolution of Altered Sense of Smell or Taste in Patients With Mildly Symptomatic COVID-19](#)
- [Treatment Recommendations for Persistent Smell and Taste Dysfunction Following COVID-19—The Coming Deluge](#)
- *JAMA Health Forum*
  - [Mask Exemptions During the COVID-19 Pandemic—A New Frontier for Clinicians](#)
- *The Lancet*
  - [Frequency of Symptoms and Asymptomatic SARS-CoV-2 Infection in New Orleans, Louisiana after 7 Weeks of a Stay-at-Home Order](#)
  - [Prevalence of SARS-CoV-2 in Spain \(ENE-COVID\): a nationwide, population-based seroepidemiological study](#)
  - [COVID-19 mortality in patients with cancer on chemotherapy or other anticancer treatments: a prospective cohort study](#)
- *Nature*
  - [OpenSAFELY: factors associated with COVID-19 death in 17 million patients](#)
- *Cell*
  - [Tracking changes in SARS-CoV-2 Spike: evidence that D614G increases infectivity of the COVID-19 virus](#)
- *WHO*
  - [Transmission of SARS-CoV-2: implications for infection prevention precautions](#)
- *BMJ Journal*
  - [Injection Molded Autoclavable, Scalable, Conformable \(iMASC\) system for aerosol-based protection: a prospective single-arm feasibility study](#)
- *Environmental Science and Technology Letters*
  - [Presence of SARS-Coronavirus-2 RNA in Sewage and Correlation with Reported COVID-19 Prevalence in the Early Stage of the Epidemic in The Netherlands](#)

## MMWR

- [Characteristics of Persons Who Died with Coronavirus Disease 2019 \(COVID-19\) — United States, February 12–May 18, 2020](#)

## HOT OFF THE (LAY) PRESS

- *The New York Times*
  - [New Cases in the U.S. Soar Past 65,000, a 7th Record in 11 Days](#)
  - [Florida reported more than 15,000 new coronavirus cases, the highest single-day total for any state — including New York — since the pandemic began.](#)
  - [Did a Mutation Help the Coronavirus Spread? More Evidence, but Lingering Questions](#)
  - [‘I Couldn’t Do Anything’: The Virus and an E.R. Doctor’s Suicide](#)
  - [Who Gets a Vaccine First? U.S. Considers Race in Coronavirus Plans](#)
- *TED*
  - [The case to infect volunteers with COVID-19 to accelerate vaccine testing](#)
- *Los Angeles Times*
  - [A plasma shot could prevent coronavirus. But feds and makers won’t act, scientists say](#)





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- *The Wall Street Journal*
  - [Regeneron Advances Covid-19 Drug Into Later-Stage Testing](#)
- *NBC News*
  - ['All the hospitals are full': In Houston, overwhelmed ICUs leave COVID-19 patients waiting in ER](#)
- *Cal OES News*
  - [Cal OES Provides Update on State Alternative Care Sites](#)
- *The New Yorker*
  - [How Two Waves of Coronavirus Cases Swept Through the Texas Panhandle](#)
  - [The Emotional Evolution of Coronavirus Doctors and Patients](#)
- *PBS News*
  - [This Maryland nursing home has had no coronavirus cases. How did they do it?](#)
  - [3 things the U.S. can do to stop coronavirus](#)
- *The Washington Post*
  - [How Fauci, 5 other health specialists deal with covid-19 risks in their everyday lives](#)
- *Cal Matters*
  - [The virus and the vulnerable: Latino children suffer higher rates of COVID-19](#)
- *MedPage Today*
  - [Report: COVID-19 Transmitted to Babies in Utero— Italian researchers confirm two infections at birth](#)
- *Science Magazine*
  - [School openings across globe suggest ways to keep coronavirus at bay, despite outbreaks.](#)
- *Medpage Today*
  - [What Evidence Is Aiding School Reopening Decisions? — Weighing risks of COVID-19 in children versus the benefits of having kids in the classroom](#)
- *NPR*
  - [After Reopening Schools, Israel Orders Them To Shut If COVID-19 Cases Are Discovered](#)
- *KGW8 News*
  - [28 COVID-19 cases reported at Lake Oswego day care center](#)
- *The Oregonian*
  - [Coronavirus infections rising fastest among kids younger than 10, dimming prospects for Oregon's school reopening plans](#)
- *The Texas Tribune*
  - [More than 300 children in Texas day cares have caught COVID-19, and the numbers are rising](#)
- *CNN*
  - [What we know about coronavirus risks to school age children](#)
  - [Medics are down to their last defense with coronavirus swamping their town](#)
  - [Pathologist found blood clots in 'almost every organ' during autopsies on Covid-19 patients](#)
- *ABC News*
  - [13 states now report coronavirus testing issues, in echo of early troubles](#)
- *Seattle Times*
  - [How our sewage could warn us of future outbreaks of COVID-19](#)
- *University of Illinois*
  - [Pandemic Behind Bars: Containing COVID-19 Outbreaks in Illinois Correctional Settings](#)
- *San Francisco Chronicle*
  - [Newsom to release 8,000 prisoners in California by end of August amid coronavirus outbreaks](#)
  - [Fauci on coronavirus pandemic: 'Worst nightmare'](#)





SAN MATEO COUNTY HEALTH

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### COVID-19 Digest Issue 12

- [‘The country is facing a very serious problem,’ Fauci says as coronavirus cases soar in California, elsewhere](#)
- [Homelessness has spread beyond major Bay Area cities. COVID-19 is making it even more visible](#)
- [Coronavirus infections spike among San Francisco General Hospital workers](#)
- [If you have this blood type, studies show you’re at higher risk for the coronavirus](#)
- [Do women practice safety better than men? What we learned from first COVID-19 conference](#)

### 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 13, 2020
- [San Mateo County COVID-19 Dashboard](#)
- [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](#)

