



COVID-19 Digest Issue 10

July 3, 2020

CLINICAL PEARL

- Genetic analysis involving COVID-19 patients in Italy and Spain who developed respiratory failure adds to the **evidence linking blood type to disease prevalence and severity. Patients with type A blood in the study cohort had a higher risk for disease involving acute respiratory syndrome, while type O blood appeared to be protective against severe disease.**
 - A very early study of patients with COVID-19 in Wuhan and Shenzhen, China was among [the first to suggest an association](#) between blood type and SARS-CoV-2 susceptibility and disease severity. In that study, published ahead of peer review, the type A blood group appeared to be associated with a greater risk for acquiring COVID-19 and the type O blood group was linked to lower risk. Another early study involving cases in New York City, also published ahead of peer review, found a higher prevalence of group A blood type in patients who were SARS-CoV-2 positive and a lower prevalence of infection with group O blood type. Additionally, [preliminary data recently reported](#) by the commercial genetic testing site 23andMe also suggested a protective role for type O blood type against the novel coronavirus when compared to other blood types.
 - Glycoproteins are present on the surface of the red blood cells in people with A, B, and AB blood types, but not in those with type O blood types. **Coronavirus surface proteins are also glycoproteins, and the hypothesis within the scientific community is that individuals who are in the type O blood group are predisposed to forming antibodies against glycoproteins.** If this is the case, people with type O blood may prove to be more responsive to a COVID-19 vaccine when a vaccine becomes available. The vaccine may also need to integrate A and B glycoprotein to boost responses in people with A, B, or AB blood types.

PUBLIC HEALTH UPDATE

- FDA issued a letter suggesting [Certain COVID-19 Serology/Antibody Tests Should Not Be Used:](#)
 - FDA recommends that clinical laboratories and health care providers stop using COVID-19 antibody tests that are listed on FDA's "[removed](#)" test list, found on the FDA's [FAQs on Testing for SARS-CoV-2 webpage](#).

ACADEMIC/RESEARCH PAPERS

- *medRxiv*
 - [Relationship between the ABO Blood Group and the COVID-19 Susceptibility](#)
 - [Seroprevalence of Antibodies to SARS-CoV-2 in Six Sites in the United States, March 23-May 3, 2020](#)
 - [The Possible Role of Vitamin D in Suppressing Cytokine Storm and Associated Mortality in COVID-19 Patients](#)
- *JAMA Dermatology*
 - [Evaluation of Chilblains as a Manifestation of the COVID-19 Pandemic and Assessment of Acute Acral Lesions in a Case Series of Children and Adolescents During the COVID-19 Pandemic](#)
- *The New England Journal of Medicine*
 - [Multisystem Inflammatory Syndrome in U.S. Children and Adolescents](#)
 - [Multisystem Inflammatory Syndrome in Children in New York State](#)
- *Eclinical Medicine*
 - [COVID-19 in 7780 pediatric patients: A systematic review](#)





SAN MATEO COUNTY HEALTH

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- *Nature Medicine*
 - [Age-dependent effects in the transmission and control of COVID-19 epidemics](#)
- *JAMA*
 - [Mortality, Admissions, and Patient Census at SNFs in 3 US Cities During the COVID-19 Pandemic](#)
- *Cleveland Clinic Journal of Medicine*
 - [Thoracic imaging in COVID-19](#)
 - [Coagulopathy in COVID-19](#)
 - [Practical aspects of targeting IL-6 in COVID-19 disease](#)
- *Chest Journal*
 - [Tocilizumab treatment for Cytokine Release Syndrome in hospitalized COVID-19 patients: survival and clinical outcomes](#)
- *Journal of Clinical Neuromuscular Disease*
 - [Novel Coronavirus \(COVID-19\)-Associated Guillain-Barré Syndrome: Case Report](#)
- *Clinical Infectious Diseases*
 - [SARS-CoV-2 infection in healthcare personnel with high-risk occupational exposure: evaluation of seven-day exclusion from work policy](#)
- *PLOS One*
 - [COVID-19 symptoms predictive of healthcare workers' SARS-CoV-2 PCR results](#)
- *BMJ Journal*
 - [Characteristics of registered clinical trials assessing treatments for COVID-19: a cross-sectional analysis](#)
- *Physics of Fluids*
 - [On respiratory droplets and face masks](#)
- *Health Affairs*
 - [COVID-19 Testing: Lessons From The HIV Testing Experience](#)
 - [After COVID-19: How To Rejuvenate Primary Care For The Future](#)
- *MIT Center for Energy and Environmental Policy Research*
 - [What Does and Does Not Correlate With COVID-19 Death Rates](#)

MMWR

- [COVID-19 Outbreak Among College Students After a Spring Break Trip to Mexico — Austin, Texas, March 26–April 5, 2020](#)
- [Characteristics of Women of Reproductive Age with Laboratory-Confirmed SARS-CoV-2 Infection by Pregnancy Status — United States, January 22–June 7, 2020](#)
- [Serial Laboratory Testing for SARS-CoV-2 Infection Among Incarcerated and Detained Persons in a Correctional and Detention Facility — Louisiana, April–May 2020](#)
- [Characteristics of Adult Outpatients and Inpatients with COVID-19 — 11 Academic Medical Centers, United States, March–May 2020](#)
- [Exposures Before Issuance of Stay-at-Home Orders Among Persons with Laboratory-Confirmed COVID-19 — Colorado, March 2020](#)
- [Initial and Repeated Point Prevalence Surveys to Inform SARS-CoV-2 Infection Prevention in 26 Skilled Nursing Facilities — Detroit, Michigan, March–May 2020](#)





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HOT OFF THE (LAY) PRESS

- *The New York Times*
 - [How the Virus Won](#)
 - [Sanofi Accelerates Its Timeline for Coronavirus Vaccine Development](#)
 - [Fauci, Citing 'Disturbing Surge,' Tells Congress the Virus Is Not Under Control](#)
 - [Fauci warns that the U.S. could see 100,000 new cases a day, and officials aim to counter vaccine skeptics.](#)
 - [As New Coronavirus Cases Hit Another Record in the U.S., Some States Delay Reopenings](#)
 - [Texas Sets Another Record as Governor Urges Residents to Stay Home](#)
 - [California shut down bars and indoor dining for most residents and New York City paused restaurant reopening as virus cases surged across the U.S.](#)
 - [A New Coronavirus Threat to Children](#)
 - [Caring for Children With Multisystem Inflammatory Syndrome](#)
 - [How 132 Epidemiologists Are Deciding When to Send Their Children to School](#)
- *The Wall Street Journal*
 - [Is It Safe to Reopen Schools? These Countries Say Yes](#)
- *The New Republic*
 - [Female Scientists Are Bearing the Brunt of Quarantine Child-Rearing](#)
- *NBC News Today*
 - [Why mothers are bearing such a huge mental load during coronavirus pandemic](#)
- *Los Angeles Times*
 - [Opinion: We can't reopen the economy without child care](#)
- *The New Yorker*
 - [The Coronavirus Surge That Texas Could Have Seen Coming](#)
 - [Anthony Fauci Issues a New Coronavirus Plea](#)
- *NPR*
 - [Another Unwanted U.S. Record: 50,000 New Coronavirus Cases In 1 Day](#)
- *The Washington Post*
 - [Coronavirus Pandemic Led to Surge in Alzheimer's Deaths](#)
- *JAMA Forum*
 - [COVID-19 and Massive Job Losses Will Test the US Health Insurance Safety Net](#)
- *KQED*
 - [COVID-19 in the Developing World](#)
- *CNBC*
 - [U.S. coronavirus cases surge by more than 27,700 in a day as 7-day average jumps 15% from week ago](#)
- *USA Today*
 - [City officials warn young people going to 'COVID parties' to see who gets sick first](#)
- *Ohio State News*
 - [Ohio State researchers testing breathalyzer to detect COVID-19](#)
- *The Sacramento Bee*
 - [Gavin Newsom gets power to withhold funds for counties that don't follow COVID-19 rules](#)
- *Mercury News*
 - [As Bay Area reopens, counties turn to 'social bubbles' to slow the spread](#)
 - [Bay Area hospitalizations outpacing rest of California, which is also rising rapidly](#)





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- *The Daily Journal*
 - [Inmates receive COVID-19 care at Seton Medical Center in Daly City](#)
- *San Francisco Chronicle*
 - [Health officials demand major Bay Area private hospitals, clinics ramp up coronavirus testing](#)
 - [Bay Area hospital reports a major coronavirus outbreak](#)
 - [California sees spike in number of cases — for second straight day](#)
 - [Coronavirus: Alarming spike in Bay Area, state cases threatens reopening plans](#)
 - [The 3 big reasons for Bay Area's coronavirus surge, according to health experts](#)
 - [San Mateo supervisor wants fines up to \\$500 for repeat mask scofflaws](#)
 - [California health officers facing protests, even death threats, over coronavirus orders](#)
 - [California will 'tighten things up' on coronavirus heading into Fourth, Newsom says](#)
 - [Newsom orders new shutdown of restaurants, other indoor business in 19 California counties](#)

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 June 16, 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](#)

