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
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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
- Initial and Repeated Point Prevalence Surveys to Inform SARS-CoV-2 Infection Prevention in 26 Skilled Nursing Facilities — Detroit, Michigan, March–May 2020
COVID-19 Digest Issue 10

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

**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