



## COVID-19 Digest Issue 26

October 21, 2020

### CLINICAL PEARL

- **COVID-19 is known to affect multiple organ systems, including the gastro-intestinal tract.** [Critically ill patients with COVID-19 often develop gastrointestinal complications during their hospital stay](#), including transaminitis, bowel ischemia, gastrointestinal bleeding, pancreatitis, Ogilvie syndrome, and severe ileus.

[Researchers from Massachusetts General Hospital](#) compared the incidence of gastrointestinal complications in critically ill patients with COVID-19–induced acute respiratory distress syndrome (ARDS) and in comparably ill patients with non–COVID-19 ARDS. **The study found a higher rate of gastrointestinal complications in critically ill patients with COVID-19 compared with propensity score–matched patients without COVID-19, suggesting a distinct phenotype for COVID-19 compared with conventional ARDS.** A total of 486 patients with ARDS met eligibility criteria, of which 244 had non–COVID-19 ARDS and 242 had COVID-19 ARDS. The median age of patients was 60.5 years and 62 years for patients with and without COVID-19, respectively, and the percentage of males was 66.5% and 54.9%, respectively. **Patients with COVID-19 were more likely to develop gastrointestinal complications compared with those without COVID-19 (74% vs 37%).** Specifically, patients with COVID-19 developed more **transaminitis** (55% vs 27%), **severe ileus** (48% vs 22%), and **bowel ischemia** (4% vs 0%). Three of the 4 patients with COVID-19 and bowel ischemia were taken to the operating room and had intraoperative findings consistent with COVID-19 bowel as [previously described in different patients](#). **Pathology findings demonstrated fibrin thrombi** in the microvasculature underlying areas of necrosis. [High expression of angiotensin-converting enzyme 2 receptors along the epithelial lining of the gut that act as host-cell receptors for SARS-CoV-2](#) could explain the involvement of abdominal organs. Higher opioid requirements and [COVID-19–induced coagulopathy](#) may also explain the disproportionately high rate of ileus and ischemic bowel disease seen in critically-ill COVID-19 patients.

### RESOURCES

- IDSA Podcast: [From Halloween to Hanukkah: What Will Holidays Look Like During COVID-19?](#)
- UCSF Special Medical Grand Rounds - [President Trump’s Covid-19 Diagnosis: Implications for Transmission, Treatment, and Prognosis](#)

### ACADEMIC/RESEARCH PAPERS

- *medRxiv*
  - [Repurposed antiviral drugs for COVID-19; interim WHO SOLIDARITY trial results](#)
  - [Virus detection and identification in minutes using single-particle imaging and deep learning](#)
- *International Journal of Infectious Diseases*
  - [Early Hydroxychloroquine but not Chloroquine use reduces ICU admission in COVID-19 patients](#)
- *JAMA*
  - [COVID-19 and Excess All-Cause Mortality in the US and 18 Comparison Countries](#)
  - [Excess Deaths From COVID-19 and Other Causes, March-July 2020](#)
  - [Excess Deaths and the Great Pandemic of 2020](#)
- *Blood Advances*
  - [The association of ABO blood group with indices of disease severity and multiorgan dysfunction in COVID-19](#)
  - [Reduced prevalence of SARS-CoV-2 infection in ABO blood group O](#)





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- *Clinical Infectious Diseases*
  - [The household secondary attack rate of SARS-CoV-2: A rapid review](#)
  - [Reinfection of SARS-CoV-2 in an immunocompromised patient: a case report](#)
- *The Lancet*
  - [Genomic evidence for reinfection with SARS-CoV-2: a case study](#)
  - [Lessons from New Zealand's COVID-19 outbreak response](#)
  - [Scientific consensus on the COVID-19 pandemic: we need to act now](#)
  - [Clinical impact of molecular point-of-care testing for suspected COVID-19 in hospital \(COV-19POC\): a prospective, interventional, non-randomised, controlled study](#)
- *Diagnostic Microbiology and Infectious Disease*
  - [Comparative study of four SARS-CoV-2 Nucleic Acid Amplification Test \(NAAT\) platforms demonstrates that ID NOW performance is impaired substantially by patient and specimen type](#)
- *Journal of Infection*
  - [The duration of infectiousness of individuals infected with SARS-CoV-2](#)
- *Science Immunology*
  - [Persistence and decay of human antibody responses to the receptor binding domain of SARS-CoV-2 spike protein in COVID-19 patients](#)
- *Emerging Infectious Diseases*
  - [Cellular Immunity in COVID-19 Convalescents with PCR-Confirmed Infection but with Undetectable SARS-CoV-2-Specific IgG](#)
  - [Superspreading Event of SARS-CoV-2 Infection at a Bar, Ho Chi Minh City, Vietnam](#)
  - [Coronavirus Disease among Workers in Food Processing, Food Manufacturing, and Agriculture Workplaces](#)
- *Nature Communications*
  - [Analysis of SARS-CoV-2 vertical transmission during pregnancy](#)
- *Pediatrics*
  - [COVID-19 Transmission in US Child Care Programs](#)
- *Early Human Development*
  - [Holidays over: A review of actual COVID-19 school outbreaks up to September 2020](#)
- *Infection Control and Hospital Epidemiology*
  - [Prolonged incubation of SARS-CoV-2 in a Patient on Rituximab Therapy](#)
- *Annals of the American Thoracic Society*
  - [Improving Prone Positioning for Severe ARDS during the COVID-19 Pandemic: An Implementation Mapping Approach](#)
- *Critical Care*
  - [Awake prone positioning does not reduce the risk of intubation in COVID-19 treated with high-flow nasal oxygen therapy: a multicenter, adjusted cohort study](#)
- *Rheumatology*
  - [Baricitinib improves respiratory function in patients treated with corticosteroids for SARS-CoV-2 pneumonia: an observational cohort study](#)
- *National Institute for Health Research*
  - [Living with Covid Themed Review](#)
- *BMJ Journals*
  - [Sudden irreversible hearing loss post COVID-19](#)





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- *Genetics in Medicine*
  - [Individuals with Down syndrome hospitalized with COVID-19 have more severe disease](#)
- *Diabetologia*
  - [Antibody response to multiple antigens of SARS-CoV-2 in patients with diabetes: an observational cohort study](#)
- *JAMA Ophthalmology*
  - [Severe Acute Respiratory Syndrome Coronavirus 2 Nucleocapsid Protein in the Ocular Tissues of a Patient Previously Infected With Coronavirus Disease 2019](#)
- *Academic Emergency Medicine*
  - [Increased Incidence of Acute Pulmonary Embolism in Emergency Department Patients During the COVID-19 Pandemic](#)
- *Internal and Emergency Medicine*
  - [Clinical characteristics and outcomes in elderly with coronavirus disease 2019 in Beijing, China: a retrospective cohort study](#)
- *PNAS*
  - [Experimental infection of domestic dogs and cats with SARS-CoV-2: Pathogenesis, transmission, and response to reexposure in cats](#)
- *United States Transportation Command (USTRANSCOM) & Air Mobility Command (AMC)*
  - [TRANSCOM/AMC Commercial Aircraft Cabin Aerosol Dispersion Tests](#)

## MMWR

- [Transmission Dynamics by Age Group in COVID-19 Hotspot Counties — United States, April–September 2020](#)
- [Race, Ethnicity, and Age Trends in Persons Who Died from COVID-19 — United States, May–August 2020](#)
- [Factors Influencing Risk for COVID-19 Exposure Among Young Adults Aged 18–23 Years — Winnebago County, Wisconsin, March–July 2020](#)
- [An Outbreak of COVID-19 Associated with a Recreational Hockey Game — Florida, June 2020](#)
- [Demographic Characteristics, Experiences, and Beliefs Associated with Hand Hygiene Among Adults During the COVID-19 Pandemic — United States, June 24–30, 2020](#)

## HOT OFF THE (LAY) PRESS

- *Science*
  - [Remdesivir and interferon fall flat in WHO's megastudy of COVID-19 treatments](#)
- *The New York Times*
  - [Remdesivir Fails to Prevent Covid-19 Deaths in Huge Trial](#)
  - [White House embraces a declaration from scientists that opposes lockdowns and relies on 'herd immunity.'](#)
  - ['We are headed in the wrong direction': The U.S. records its highest tallies since July](#)
  - [London tightens restrictions as a second wave of virus cases washes over Europe.](#)
  - [France extends virus rules to the entire country as new cases threaten to overwhelm hospitals.](#)
  - [Coronavirus Confusion: Colts Report False Positives and Patriots Call Off Practice](#)
  - [As the Coronavirus Surges, a New Culprit Emerges: Pandemic Fatigue](#)
  - [What to Know About California's New Rules for Gathering](#)
  - [Migrant Workers Restricted to Farms Under One Grower's Virus Lockdown](#)
  - [Did Lockdowns Lower Premature Births? A New Study Adds Evidence](#)





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- [Latino and Black Americans are still dying in disproportionately high numbers, the C.D.C. says.](#)
- [‘I Feel Like I Have Dementia’: Brain Fog Plagues Covid Survivors](#)
- [Pfizer confirms it won’t seek authorization for its vaccine before the second half of next month](#)
- [Governors Ask How Vaccines Will Be Distributed](#)
- *The Hill*
  - [Bipartisan governors ask Trump for help with COVID vaccine distribution plan](#)
  - [Loss for everyone as CDC's standing erodes](#)
- *ProPublica*
  - [Inside the Fall of the CDC](#)
- *IDSA News*
  - [“Herd Immunity” is Not an Answer to a Pandemic](#)
- *Pfizer*
  - [OUR PROGRESS IN DEVELOPING A POTENTIAL COVID-19 VACCINE](#)
- *Reuters*
  - [Pfizer to enroll kids as young as 12 in COVID-19 vaccine study](#)
  - [J&J says review of illness that led to pause of coronavirus vaccine trial could take days](#)
  - [YouTube bans coronavirus vaccine misinformation](#)
  - [U.S. pauses Eli Lilly trial of antibody drug Trump touted as COVID-19 'cure' over safety concern](#)
  - [Eli Lilly says other COVID-19 antibody drug trials ongoing after study halted for safety concern](#)
- *MedPage Today*
  - [COVID-19 Antibodies Raise Unanswered Clinical Questions](#)
- *NPR/KQED*
  - [Facing Many Unknowns, States Rush To Plan Distribution Of COVID-19 Vaccines](#)
  - [Trump Announces Partnership With CVS, Walgreens For Nursing Home COVID Vaccination](#)
  - [More Companies Are Using Technology To Monitor For Coronavirus In The Workplace](#)
  - [‘I’m Still Unemployed’: Millions In Dire Situation As Savings Start To Run Out](#)
  - [What's Coming This Winter? Here's How Many More Could Die In The Pandemic](#)
  - [How Bad Will Coronavirus Be This Winter? Model Projects 170,000 More U.S. Deaths](#)
  - [Coronavirus Test Results Get Faster, But Still Too Slow To Help Slow Disease Spread](#)
- *University of Oxford News*
  - [Oxford scientists develop extremely rapid diagnostic test for Covid-19](#)
- *Time*
  - [At-Home Saliva Tests for COVID-19 Could Be Coming Soon](#)
- *Bloomberg*
  - [Illumina and IDbyDNA Launch DNA Test That May Find Next Epidemic](#)
  - [Rapid New Covid-19 Test From Access Bio Cleared in U.S.](#)
  - [Starbucks Cafe’s Covid Outbreak Spared Employees Who Wore Masks](#)
- *BBC News*
  - [Covid: One-way 'travel bubble' opens between Australia and NZ](#)
- *The Wall Street Journal*
  - [Can Airport Covid Testing Get People Flying Again?](#)
- *The Washington Post*
  - [Defense Department study finds low risk of coronavirus infection through air on a packed airline flight](#)
  - [These U.S. airlines are offering pre-flight covid-19 testing – for a price](#)





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- [U.S. tops 60,000 daily coronavirus infections for first time since early August](#)
- [Coronavirus cases hit records in Europe, surpassing U.S. numbers](#)
- [A Canadian spin studio followed public health guidelines. But 61 people still caught the coronavirus.](#)
- [Young and healthy? You may have to wait until 2022 for a covid-19 vaccine, experts warn.](#)
- [Trying to reach herd immunity is 'unethical' and unprecedented, WHO head says](#)
- [Trump again attacks Fauci's guidance as coronavirus infections tick upward](#)
- [A pandemic pod could help you get through winter, experts say. Here's how to form one.](#)
- [With video calls and an army of volunteers, this 15-year-old is battling pandemic loneliness in nursing homes](#)
- *WebMD*
  - [Small Household Gatherings Driving COVID Increase](#)
- *USA Today*
  - [COVID-19 cases in US grow at a speed not seen since July, the summer peak](#)
- *Nature News*
  - [What it's really like to do science amid COVID-19](#)
- *STAT News*
  - [Results are coming in on the AI systems built at the height of New York City's spring Covid-19 outbreak](#)
  - [STAT-Harris Poll: The share of Americans interested in getting Covid-19 vaccine as soon as possible is dropping](#)
  - [Pfizer won't apply for Covid-19 vaccine authorization before mid-November, CEO confirms](#)
- *Mercury News*
  - [Eight months in, California is containing COVID-19 as other states spike. Here's why.](#)
  - [Kaiser Permanente cited for failing to treat COVID-19 as airborne](#)
- *SF Gate*
  - [Stanford professor's anti-lockdown movement faces fierce resistance](#)
- *San Francisco Chronicle*
  - [Gilroy nursing home reports 12 coronavirus deaths, 75 infections](#)
  - [Google expands S.F. office despite shift to working from home during pandemic](#)
- *KRON4*
  - [Marin Catholic suspends hybrid learning for 2 weeks](#)

## EPIDEMIOLOGY UPDATES

- **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 October 21, 2020**
- [San Mateo County COVID-19 Dashboard](#)
- [Santa Clara County COVID-19 Dashboard](#)





SAN MATEO COUNTY HEALTH

## PUBLIC HEALTH, POLICY & PLANNING

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#### 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](#)
- [COVID-19 Nursing Home Data](#)
- [CDC Interactive Serology Dashboard for Commercial Laboratory Surveys](#)
- [CDC COVID-19 Forecasts: Deaths](#)
- [HHS Coronavirus Data Hub](#)

