CLINICAL PEARL

- **Ground glass opacities on chest CT and COVID-19:** The term ground glass opacities refers to the hazy, white-flecked pattern indicative of increased density that can be seen on lung CT scans. It is not as dense as the "crazy-paving" pattern, which looks like a mosaic or pavers, and less confounding than the "head cheese sign," a juxtaposition of regions with three or more different densities of different attenuation in the lungs. The term has its origins in the way old movies shot their flashback scenes, through a ground-glass lens that gave the film a hazy appearance. Many diseases can cause ground-glass opacities, including viral infections, chronic lung disease, fibrosis, other inflammatory conditions, and cancers. Ground-glass opacities are not found in healthy lungs and do not result from exposures like air pollution or smoking. Of note, COVID-19-related ground glass opacities tend to be multifocal and bilateral, have a very round shape and are usually seen in the lower lobes and periphery. It should also be noted that some COVID patients have normal chest CTs with no ground-glass opacities during the first few days of infection and that no US radiological society recommends diagnostic chest CT for COVID-19.

PUBLIC HEALTH UPDATES

- San Mateo County Health Officer issued a [revised health officer order dated May 28th](http://example.com) directing all individuals in the county to **continue sheltering at their place of residence** except for identified needs and activities, in compliance with specified requirements; and revised [Appendix C-1 Additional Businesses Permitted to Operate](http://example.com) and [Appendix C-2 Allowed Additional Activities](http://example.com).

GUIDEDANCE/GUIDELINES

- CDC recently issued guidance for healthcare facilities: [Considerations for Release of Stockpiled N95s Beyond the Manufacturer-Designated Shelf Life](http://example.com)

ACADEMIC/RESEARCH PAPERS

- **JAMA**
  - Magnetic Resonance Imaging Alteration of the Brain in a Patient With Coronavirus Disease 2019 (COVID-19) and Anosmia
  - Neuropathogenesis and Neurologic Manifestations of the Coronaviruses in the Age of Coronavirus Disease 2019
  - Nursing Home Care in Crisis in the Wake of COVID-19
  - Outbreak Investigation of COVID-19 Among Residents and Staff of an Independent and Assisted Living Community for Older Adults in Seattle, Washington
  - Variation in COVID-19 Hospitalizations and Deaths Across New York City Boroughs
  - Prevalence of SARS-CoV-2 Among Patients Admitted for Childbirth in Southern Connecticut
  - Comparison of Clinical Characteristics of Patients with Asymptomatic vs Symptomatic Coronavirus Disease 2019 in Wuhan, China
  - Recurrent Positive Reverse Transcriptase–Polymerase Chain Reaction Results for Coronavirus Disease 2019 in Patients Discharged From a Hospital in China

- **New England Journal of Medicine**
  - Pulmonary Vascular Endothelialitis, Thrombosis, and Angiogenesis in Covid-19
COVID-19 Digest Issue 6

- **Hospitalization and Mortality among Black Patients and White Patients with Covid-19**
- **Wrong but Useful — What Covid-19 Epidemiologic Models Can and Cannot Tell Us**
- **Is It Safe for Me to Go to Work?” Risk Stratification for Workers during the Covid-19 Pandemic**

- **Lancet**
  - Mortality and pulmonary complications in patients undergoing surgery with perioperative SARS-CoV-2 infection: an international cohort study

- **American Journal of Clinical Pathology**
  - Placental Pathology in COVID-19

- **International Journal of Antimicrobial Agents**
  - Can post-exposure prophylaxis for COVID-19 be considered as an outbreak response strategy in long-term care hospitals?

- **American Gastroenterological Association Journal**
  - Gastrointestinal and Hepatic Manifestations of 2019 Novel Coronavirus Disease in a Large Cohort of Infected Patients From New York: Clinical Implications

- **UCSF**
  - Initial Results of Mission District COVID-19 Testing Announced - Latinx Community, Men and Economically Vulnerable Are at Highest Risk

- **CDC Emerging Infectious Diseases**
  - Acute Cerebral Stroke with Multiple Infarctions and COVID-19, France, 2020
  - Detection of Novel Coronavirus by RT-PCR in Stool Specimen from Asymptomatic Child, China
  - Indirect Virus Transmission in Cluster of COVID-19 Cases, Wenzhou, China, 2020
  - Secondary Transmission of Coronavirus Disease from Presymptomatic Persons, China
  - Co-infection with SARS-CoV-2 and Influenza A Virus in Patient with Pneumonia, China
  - Lack of Vertical Transmission of Severe Acute Respiratory Syndrome Coronavirus 2, China

**MMWR**

- Universal and Serial Laboratory Testing for SARS-CoV-2 at a Long-Term Care Skilled Nursing Facility for Veterans — Los Angeles, California, 2020
- Evidence for Limited Early Spread of COVID-19 Within the United States, January–February 2020
- Decline in Child Vaccination Coverage During the COVID-19 Pandemic — Michigan Care Improvement Registry, May 2016–May 2020

**HOT OFF THE (LAY) PRESS**

- **The Atlantic**
  - The CDC and States Are Misreporting COVID-19 Test Data
  - The Protests Will Spread the Coronavirus

- **The New Yorker**
  - How Mask Mandates Were Beaten Down in Rural Oklahoma

- **The New York Times**
  - The Project Behind a Front Page Full of Names
  - Why Days 5 to 10 Are So Important When You Have Coronavirus
  - Coronavirus Epidemics Began Later Than Believed, Study Concludes
  - The World Is Still Far From Herd Immunity for Coronavirus
COVID-19 Digest Issue 6

- **New York City is on track to start reopening on June 8, Governor Cuomo said. It has been under one of the country’s strictest lockdowns.**

- **The Economist**
  - How the world’s premier public-health agency was handcuffed

- **NPR**
  - COVID-19 Has Killed Close To 300 U.S. Health Care Workers, New Data From CDC Shows
  - Coronavirus Testing Machines Are Latest Bottleneck In Troubled Supply Chain

- **USA Today**
  - Latino homes report serious COVID-19 symptoms nearly twice as often, survey of 1.6 million shows

- **Wired**
  - The First Shot: Inside the Covid Vaccine Fast Track

- **Vox**
  - How to weigh the risk of going out in the coronavirus pandemic, in one chart

- **GAO Science, Technology Assessment and Analytics**
  - Science & Tech Spotlight: Social Distancing During Pandemics

- **Los Angeles Times**
  - Editorial: Coronavirus shows us the danger and inanity of our prison state
  - California is reopening too quickly, posing ‘very serious risk,’ health officer warns
  - Coronavirus cases spiked after these counties reopened, now officials are scaling back

- **San Francisco Chronicle**
  - Surge of coronavirus cases in Santa Cruz tied to family gatherings
  - Coronavirus cases on the rise across the Bay Area, especially in Alameda County
  - Why the coronavirus is surging in Alameda County
  - SF releases timeline for schools, sports, gyms, restaurants to reopen
  - The curious case of the SF doctor who’s been coronavirus-positive nearly 90 days and counting
  - Long after the illness is gone, the damage from coronavirus may remain

- **Chicago Tribune**
  - ‘It’s one thing to survive the infection, but what’s next?’ Some COVID-19 patients need rehab to walk, talk and problem solve

**Epidemiology Updates**

- **US Leads the World in Confirmed COVID-19 Cases** per [Johns Hopkins University Center for Systems Science and Engineering Dashboard Website](https://coronavirus.jhu.edu)

- **California COVID-19 by the numbers** are available on the [CDPH Website](https://www.cdph.ca.gov) and the [NYT Map and Table](https://www.nytimes.com/interactive/2020/us/coronavirus-tracker.html) (includes data by county)

- **San Mateo County COVID-19 Dashboard**

- **Santa Clara County COVID-19 Dashboard**

**Additional COVID-19 Resources:**

- [COVID-19 California Statewide Case Statistics](https://covid19.ca.gov)
- [Palo Alto Online tracking the coronavirus in San Mateo and Santa Clara counties](https://www.paloaltonews.com)