CLINICAL PEARL

- **COVID-19 vaccines safety in the general population and pregnant women:**
  - As of Feb 28, 2021, 75 million COVID-19 vaccine doses have been administered in the United States.
  - Reactogenicity profiles of mRNA vaccines in v-safe monitoring are consistent with what was observed in clinical trials.
  - Systemic and local reactions are commonly reported to VAERS.
  - Anaphylaxis following both vaccines has been reported to VAERS, though rarely.
  - No other safety signals for serious adverse events have been detected in VAERS.
  - No safety concerns have been identified among the Vaccine Safety Datalink (VSD) Rapid Cycle Analysis prespecified outcomes as of February 13, 2021.
  - Pregnant women were not specifically included in preauthorization clinical trials of COVID-19 vaccines. Post-authorization safety monitoring and research are the primary ways to obtain safety data on COVID-19 vaccination during pregnancy.
  - Substantial numbers of self-reported pregnant women (>30,000) have registered in v-safe.
  - So far, the reactogenicity profile and adverse events observed among pregnant women in v-safe is not pointing to any safety problem.
  - Most (73%) reports to VAERS among pregnant women have involved non-pregnancy specific adverse events (e.g., local and systemic reactions).
  - No unexpected pregnancy or infant outcomes have been observed related to COVID-19 vaccination during pregnancy.
  - To date, miscarriage is the most frequently reported pregnancy-specific adverse event to VAERS BUT numbers are within the known background rates based on presumed COVID-19 vaccine doses administered to pregnant women.
  - Safety monitoring in pregnant women is ongoing and planned in v-safe, VAERS, VSD, and the Clinical Immunization Safety Assessment Project (CISA).

PUBLIC HEALTH UPDATES

- WHO adds Janssen vaccine to list of safe and effective emergency tools against COVID-19
- European Medicines Agency COVID-19 Vaccine AstraZeneca: PRAC investigating cases of thromboembolic events - vaccine’s benefits currently still outweigh risks - Update
- FDA Letter to Clinical Laboratory Staff, Point-of-Care Facility Staff, and Health Care Providers: Potential for False Results with Roche Molecular Systems, Inc. cobas SARS-CoV-2 & Influenza Test for use on cobas Liat System
- HHS-ASPR Public Health Emergency Bamlanivimab Update
- CDPH
  - State Officials Announce Latest COVID-19 Facts
  - FAQ on the Outdoor and Indoor Youth and Recreational Adult Sports

GUIDANCE/GUIDELINES

- Centers for Medicare and Medicaid Services (CMS) Updates Nursing Home Guidance QSO-20-39-NH with Revised Visitation Recommendations
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RESOURCES

• CDC
  o COCA Webinar: The Role of Telehealth in Expanding Access to Healthcare During the COVID-19 Pandemic: Considerations for Vaccine Uptake and Monitoring for Adverse Events
  o v-safe After Vaccination Health Checker Now Available in Multiple Languages
  o COVID-19 Science Update released: March 12, 2021 Edition 80
  o MMWR Weekly COVID-19 Briefing podcasts

• CDC/IDSA
  o COVID-19 Clinician Call: CDC Update on Variants; Practical Strategies for SARS-CoV-2 Testing; and Testing in Long-Term Care Settings
  o COVID-19 Real-Time Learning Network: Vaccines FAQ

• IDSA:
  o Podcast: COVID-19: The Latest on Vaccine Distribution
  o Media Briefing:
    ▪ Back to School Indicators
    ▪ Update on COVID-19 Treatment Guidelines

• This Week in Virology (TWiV): The kids aren’t alright

• Center for Infectious Disease Research and Policy (CIDRAP) Osterholm Update:
  o Preparing for Act Three
  o A Mended Heart

• Vaccine Centre at the London School of Hygiene & Tropical Medicine COVID-19 Vaccine Tracker
• The Helix COVID-19 Surveillance Dashboard for SARS-CoV-2 variants

ACADEMIC/RESEARCH PAPERS

• medRxiv
  o Age-dependent immune response to the Biontech/Pfizer BNT162b2 COVID-19 vaccination
  o Just 2% of SARS-CoV-2-positive individuals carry 90% of the virus circulating in communities
  o Bamlanivimab does not neutralize two SARS-CoV-2 variants carrying E484K in vitro
  o Persistent SARS-CoV-2 infection and increasing viral variants in children and young adults with impaired humoral immunity
  o Emergence of multiple SARS-CoV-2 mutations in an immunocompromised host

• Nature
  o SARS-CoV-2 evolution during treatment of chronic infection
  o Attributes and predictors of long COVID
  o Increased mortality in community-tested cases of SARS-CoV-2 lineage B.1.1.7
  o A global survey of potential acceptance of a COVID-19 vaccine

• New England Journal of Medicine
  o Efficacy of the ChAdOx1 nCoV-19 Covid-19 Vaccine against the B.1.351 Variant
  o Serum Neutralizing Activity Elicited by mRNA-1273 Vaccine
  o The Devastating Impact of Covid-19 on Individuals with Intellectual Disabilities in the United States

• Vaccine
  o Perspectives on the receipt of a COVID-19 vaccine: A survey of employees in two large hospitals in Philadelphia
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- **Lancet**
  - Single-dose administration and the influence of the timing of the booster dose on immunogenicity and efficacy of ChAdOx1 nCoV-19 (AZD1222) vaccine: a pooled analysis of four randomised trials
  - Safety and immunogenicity of an inactivated SARS-CoV-2 vaccine, BBV152: interim results from a double-blind, randomised, multicentre, phase 2 trial, and 3-month follow-up of a double-blind, randomised phase 1 trial
  - Vaccine after Effects and Post-Vaccine Infection in a Real World Setting: Results from the COVID Symptom Study App
  - An interactive website tracking COVID-19 vaccine development
  - Adjuvantanation helps to optimise COVID-19 vaccine candidate
  - Alternatives to conventional hospitalisation that enhance health systems' capacity to treat COVID-19
  - Assessment of protection against reinfection with SARS-CoV-2 among 4 million PCR-tested individuals in Denmark in 2020: a population-level observational study
  - Chilblain-like acral lesions in long COVID-19: management and implications for understanding microangiopathy

- **JAMA**
  - Immunogenicity of the Ad26.COV2.S Vaccine for COVID-19
  - Immunogenicity of a Single Dose of SARS-CoV-2 Messenger RNA Vaccine in Solid Organ Transplant Recipients
  - Acute Allergic Reactions to mRNA COVID-19 Vaccines
  - Neurologic Involvement in Children and Adolescents Hospitalized in the United States for COVID-19 or Multisystem Inflammatory Syndrome
  - Association of Acute Symptoms of COVID-19 and Symptoms of Depression in Adults
  - Assessment of Acute Kidney Injury and Longitudinal Kidney Function After Hospital Discharge Among Patients With and Without COVID-19
  - Four-Month Clinical Status of a Cohort of Patients After Hospitalization for COVID-19

- **Science**
  - Antibody-Dependent Enhancement and the Coronavirus Vaccines
  - Epidemiological dynamics of enterovirus D68 in the United States and implications for acute flaccid myelitis

- **Annals of Internal Medicine**
  - Antibody Response After SARS-CoV-2 Infection and Implications for Immunity
  - What Is the Antibody Response and Role in Conferring Natural Immunity After SARS-CoV-2 Infection? Rapid, Living Practice Points From the American College of Physicians (Version 1)
  - Clinical and Economic Effects of Widespread Rapid Testing to Decrease SARS-CoV-2 Transmission

- **Emerging Infectious Diseases**
  - Clinical Evaluation of Roche SD Biosensor Rapid Antigen Test for SARS-CoV-2 in Municipal Health Service Testing Site, the Netherlands

- **Clinical Infectious Diseases**
  - Effectiveness of three versus six feet of physical distancing for controlling spread of COVID-19 among primary and secondary students and staff: A retrospective, state-wide cohort study
  - Household SARS-CoV-2 transmission and children: a network prospective study
  - Transmission of SARS-CoV-2 infection among children in summer schools applying stringent control measures in Barcelona, Spain
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- Transmission of SARS-CoV-2 from asymptomatic and presymptomatic individuals in healthcare settings despite medical masks and eye protection
- Impact of the COVID-19 Vaccine on Asymptomatic Infection Among Patients Undergoing Pre-Procedural COVID-19 Molecular Screening

- BMJ
  - Early initiation of prophylactic anticoagulation for prevention of coronavirus disease 2019 mortality in patients admitted to hospital in the United States: cohort study

- Cleveland Clinic Journal of Medicine
  - Severe thrombocytopenia in a patient with otherwise asymptomatic COVID-19

- International Journal of Infectious Diseases
  - Coinfection of tuberculosis and COVID-19 limits the ability to in vitro respond to SARS-CoV-2

- The Journal of Infectious Diseases
  - Prevention of COVID-19 among older adults receiving pneumococcal conjugate vaccine suggests interactions between Streptococcus pneumoniae and SARS-CoV-2 in the respiratory tract

- Kidney International

- Obstetrics and Gynecology
  - Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibodies in Neonatal Cord Blood After Vaccination in Pregnancy

- PLOS
  - Prevalence of depression, anxiety and post-traumatic stress disorder in health care workers during the COVID-19 pandemic: A systematic review and meta-analysis
  - The effects of wearing facemasks on oxygenation and ventilation at rest and during physical activity

- European Respiratory Journal
  - “You can leave your mask on”: effects on cardiopulmonary parameters of different airway protection masks at rest and during maximal exercise

- Open Forum Infectious Diseases
  - Do Stay at Home Orders and Cloth Face Coverings Control COVID-19 in New York City? Results From a SIER Model Based on Real-world Data

- Journal of Pharmaceutical Sciences
  - Addressing the Cold Reality of mRNA Vaccine Stability

- Center for Infectious Diseases Research and Policy
  - Reassessing COVID-19 Vaccine Deployment in Anticipation of a US B.1.1.7 Surge: Stay the Course or Pivot?

- PEW
  - Could Efforts to Fight the Coronavirus Lead to Overuse of Antibiotics?
  - Growing Share of Americans Say They Plan To Get a COVID-19 Vaccine – or Already Have

- Kaiser Family Foundation
  - The Next Phase of Vaccine Distribution: High-Risk Medical Conditions

- Canada National Advisory Committee on Immunization (NACI)
  - Extended dose intervals for COVID-19 vaccines to optimize early vaccine rollout and population protection in Canada
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MMWR

- COVID-19 Vaccine Second-Dose Completion and Interval Between First and Second Doses Among Vaccinated Persons — United States, December 14, 2020–February 14, 2021
- Effectiveness of the Pfizer-BioNTech COVID-19 Vaccine Among Residents of Two Skilled Nursing Facilities Experiencing COVID-19 Outbreaks — Connecticut, December 2020–February 2021
- County-Level COVID-19 Vaccination Coverage and Social Vulnerability — United States, December 14, 2020–March 1, 2021
- Association of Children’s Mode of School Instruction with Child and Parent Experiences and Well-Being During the COVID-19 Pandemic — COVID Experiences Survey, United States, October 8–November 13, 2020
- Minimal SARS-CoV-2 Transmission After Implementation of a Comprehensive Mitigation Strategy at a School — New Jersey, August 20–November 27, 2020
- Notes from the Field: SARS-CoV-2 Transmission Associated with High School Football Team Members — Florida, September–October 2020

HOT OFF THE (LAY) PRESS

- The White House Press Release
  - President Biden to Announce All Americans to be Eligible for Vaccinations by May 1, Puts the Nation on a Path to Get Closer to Normal by July 4th
- HHS Press Release
  - Biden Administration Takes Action Through HHS to Increase Number of Vaccinators
- NYU News Hub
  - Patients Recovered from COVID-19 May Require Just One Dose of mRNA Vaccine
- Healio
  - Final analysis shows Novavax COVID-19 vaccine 100% protective against severe disease
  - European countries halt AstraZeneca vaccine rollout
- The Guardian
  - Netherlands joins Ireland in vaccine suspension over blood clot concerns
- Reuters
  - AstraZeneca to seek U.S. authorization for COVID-19 vaccine this month or early next
  - Canada sure that all COVID-19 vaccines are safe, including AstraZeneca doses
  - Ocugen plans to sell 100 mln Indian vaccine doses in U.S. in 2021
  - Vaccine ‘revolution’ could see shots for next pandemic in 100 days
  - The ex-Pfizer scientist who became an anti-vax hero
  - U.S. limits supply of Eli Lilly’s COVID-19 antibody therapy in three states
- Medpage Today
  - AstraZeneca Vaccine Unfairly Under Fire Over Clot Risk?
  - Why Women Experience COVID and the Vaccines Differently Than Men
- New York Times
  - The AstraZeneca vaccine was declared safe by the E.U. drug regulator. A wave of countries had suspended its use over fears about rare side effects.
  - Germany, France and Italy paused use of AstraZeneca’s vaccine over concerns that it might be tied to blood clots. Experts haven’t found a causal link.
  - AstraZeneca Concerns Throw Europe’s Vaccine Rollout Into Deeper Disarray
  - The U.S. is sending millions of surplus doses of the AstraZeneca vaccine to Mexico and Canada, officials said.
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- Black and Hispanic Communities Grapple With Vaccine Misinformation
- Plenty of Vaccines, but Not Enough Arms: A Warning Sign in Cherokee Nation
- Clergy Preach Faith in the Covid Vaccine to Doubters
- Hunting for a Leftover Vaccine? This Site Will Match You With a Clinic.
- Coronavirus Reinfections Are Rare, Danish Researchers Report
- ‘A saving grace’: Stimulus payments begin to arrive in bank accounts
- Small Piece of the Stimulus Has Ambitious Aim of Saving Mothers’ Lives
- The pandemic has been a story of two lines — haves and have-nots — moving in different directions
- How America’s Covid-19 Nightmare Ends
- The Pandemic and the Limits of Science. What have we learned from the year that lasted a century?
- Mental health crisis affecting young people needs immediate attention, report says

- AP News
  - Global rise in childhood mental health issues amid pandemic
  - Medically vulnerable in US put near end of vaccine line

- Kaiser Health News
  - Covid Cases Plummet 83% Among Nursing Home Staffers Despite Vaccine Hesitancy

- Boston Globe
  - Fauci says vaccine hesitancy among Republicans poses a risk: ‘I just don’t get it’

- Foreign Affairs
  - The Pandemic That Won’t End – COVID-19 Variants and the Peril of Vaccine Inequity

- The New Yorker
  - Why COVID-19 Vaccines Aren’t Yet Available to Everyone
  - Why Learning Pods May Outlast the Pandemic

- NPR
  - CDC Looks At Whether 3 Feet — Instead Of 6 — Is Safe For Schools’ Social Distancing
  - Moderna Gives First Vaccine Shots To Young Kids As Part Of COVID-19 Study
  - Little Difference In Vaccine Hesitancy Among White And Black Americans, Poll Finds
  - Defense Production Act Speeds Up Vaccine Production
  - Hospital Emergency Rooms Struggle With Overdose Spike During Pandemic
  - WHO Points To Wildlife Farms In Southern China As Likely Source Of Pandemic

- The Hill
  - The White House is set to unveil a wide-reaching, billion-dollar campaign aimed at convincing every American to get vaccinated

- STAT News
  - YouTube removed 30,000 videos with vaccine misinformation

- JAMA Medical News and Perspectives
  - COVID-19 Vaccines vs Variants—Determining How Much Immunity Is Enough
  - Experts Discuss COVID-19—Vaccine Questions, School Openings, and More

- Business Wire
  - First Participants Dosed in Phase 1 Study Evaluating mRNA-1283, Moderna’s Next Generation COVID-19 Vaccine

- Science Speaks: Global ID News
  - First multivalent vaccine with a variant (B.1.351) begins: Will it protect against other E484K variants?
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- **The Economist**
  - Papers, please - Are vaccine passports a good idea?
  - Age or illness: estimating covid-19 risk

- **The Washington Post**
  - The Health 202: The U.S. bought enough coronavirus vaccines for three times its adult population
  - Massive Facebook study on users’ doubt in vaccines finds a small group appears to play a big role in pushing the skepticism
  - ‘An accelerated cauldron of evolution’: Covid-19 patients with cancer, HIV, may play a role in emergence of variants
  - Coronavirus medical mystery: Baby with high viral load puzzles researchers
  - CDC identifies public-health guidance from the Trump administration that downplayed pandemic severity
  - Duke University under a mandatory schoolwide quarantine amid frat party-linked coronavirus surge
  - Unmasked spring breakers are descending on Florida. Officials are begging them to behave.

- **Houston Health Department News**
  - More Contagious Variant Of Virus That Causes COVID-19 Widespread In Houston Wastewater

- **Minnesota Department of Health News**
  - State announces COVID-19 testing site in Carver County, urges testing to combat B117 variant – Chanhassen pop-up will offer saliva testing to all

- **KQED**
  - More CVS Stores to Offer Vaccine Appointments Starting Saturday

- **Los Angeles Times**
  - California releases details on how millions can get COVID-19 vaccinations beginning Monday
  - Millions more Californians will be eligible for COVID-19 vaccine. But they face obstacles.
  - Some COVID-19 vaccine doses are going to waste. But just how many?
  - California hits target of 2 million vaccines in low-income areas, clearing way for reopenings.

- **The Mercury News**
  - San Mateo could be first Bay Area county in orange tier
  - This San Mateo County community went from 10 coronavirus cases to 551 overnight
  - How the Bay Area’s COVID response failed Latinos
  - Why the 2nd shot makes you feel lousy
  - A Stanford scientist’s quest to cure his son could help unravel the mystery of Covid-19 long haulers
  - When will we declare victory over COVID-19?
  - Another case of South African COVID-19 variant found in Santa Clara County

- **San Francisco Chronicle**
  - First case of worrisome coronavirus variant from Brazil found in California
  - California health officials promote Johnson & Johnson vaccine as first doses reach Bay Area
  - Report shows California lagging most states in vaccination equity
  - Bay Area counties take scattershot approach to vaccinating homeless people against COVID-19
  - How to know if your BMI qualifies you for a vaccine in San Francisco now
  - They ordered the Bay Area to shut down. Then came the hard part
  - A year in the pandemic: How we failed, how we adapted, and what lies ahead
  - Counting the Bay Area’s lost lives during the pandemic
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EPIDEMIOLOGY UPDATES

- **CDC COVID Data Tracker**
  - CDC COVID-19 Forecasts: Deaths
  - United States COVID-19 Cases and Deaths by State
  - CDC COVID Data Tracker: Vaccinations
  - CDC US COVID-19 Cases Caused by Variants
- **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 March 19, 2021
- **San Mateo County COVID-19 Dashboard**
- **Santa Clara County COVID-19 Dashboard**

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
- CDC Interactive Serology Dashboard for Commercial Laboratory Surveys
- Children and COVID-19: State-Level Data Report
- HHS Coronavirus Data Hub
- COVID-19 Nursing Home Data
- CDC COVID Data Tracker