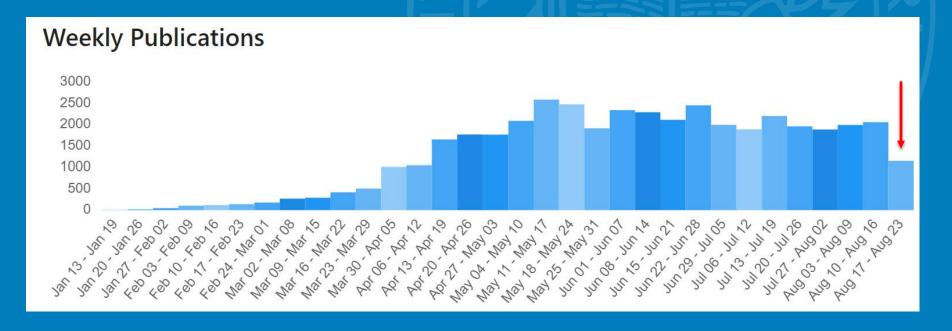
### UC San Diego Health

# **Updates and Controversies in COVID**

Erica Lin, PGY6
Pulmonary & Critical Care Fellow, UCSD

UC San Diego Health

# **Publications since Last Session**



### UC San Diego Health

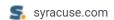


Daily coronavirus cases in the U.S. fall below 50,000 for seven straight days after summer surge

#### Global Deaths

# 801,447

## **Grim Milestone**



NY coronavirus testing hits record low for positive cases, Cuomo says



Alabama posts lowest coronavirus numbers in months: Week in review

mij Marin Independent Journal

California coronavirus case average, hospitalizations reach seven-week low

Wp Washington Post

Coronavirus update: Infections are trending upward in the Midwest

### Variant of SARS-CoV-2 with clinical implications?

### Effects of a major deletion in the SARS-CoV-2 genome on the severity of infection and the inflammatory response: an observational cohort study

Barnaby E Young\*, Siew-Wai Fong\*, Yi-Hao Chan\*, Tze-Minn Mak, Li Wei Ang, Danielle E Anderson, Cheryl Yi-Pin Lee, Siti Naqiah Amrun, Bernett Lee, Yun Shan Goh, Yvonne C F Su, Wycliffe E Wei, Shirin Kalimuddin, Louis Yi Ann Chai, Surinder Pada, Seow Yen Tan, Louisa Sun, Purnima Parthasarathy, Yuan Yi Constance Chen, Timothy Barkham, Raymond Tzer Pin Lin, Sebastian Maurer-Stroh, Yee-Sin Leo, Lin-Fa Wang, Laurent Renia, Vernon J Lee, Gavin J D Smith, David Chien Lye, Lisa F P Ng

- Investigating SARS-CoV-2 variant with 382-nucleotide deletion
- Patients with Δ382 variant appeared to have a milder clinical course.
   Δ382 variant was associated with a lower odds of developing hypoxemic respiratory failure, in comparison to wild-type virus or mix

### Upcoming diagnostic tests to look forward to!

- FDA issued EUA for
  - Yale's Saliva Direct COVID-19 diagnostic test
  - LumiraDX UK Ltd.'s SARS-CoV-2 Ag test and authorized its use in laboratories under the Clinical Laboratory Improvement Amendments and in clinical settings under CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation.

NBC 15 WPMI



Saliva-based coronavirus test funded by NBA, NBPA gets emergency authorization from FDA

New COVID-19 saliva test could be a 'turning point'

CNBC

Dr. Scott Gottlieb: Yale's new saliva coronavirus test funded by NBA could be widely rolled out



### What about convalescent plasma as a therapy?

#### ■PI NPR

### FDA Hesitates On COVID Blood Plasma Treatment

 FDA hesitates but finally issued EUA for convalescent plasma as a COVID-targeted treatment

Effect of Convalescent Plasma on Mortality among
Hospitalized Patients with COVID-19: Initial Three-Month
Experience

 While preliminary results suggest a lower mortality in hospitalized patients when administered within 3 days of diagnosis, this trial was performed without a standard treatment group or placebo group, as a point of comparison

### How do we mitigate misinformation about therapies?

We are following **21 coronavirus treatments** for effectiveness and safety:



- FDA and the Federal Trade Commission issued joint warning letters to:
  - SilveryGuy for promoting the sale of Colloidal Silver products with misleading claims that products can prevent or treat COVID-19
  - Living Senior, LLC for selling cannabidiol products with misleading claims that the products can prevent or treat COVID-19
  - Predictive Biotech, Inc. for marketing CoreCyte (unapproved umbilical cord-derived product) claiming to prevent or treat COVID-19

#### **Perspective Piece**

How Do We Combat Bogus Medicines in the Age of the COVID-19 Pandemic?

Wubshet Tesfaye, <sup>1</sup> Solomon Abrha, <sup>2,3</sup> Mahipal Sinnollareddy, <sup>4</sup> Bruce Arnold, <sup>5</sup> Andrew Brown, <sup>6</sup> Cynthia Matthew, <sup>2</sup> Victor M. Oguoma, <sup>1</sup> Gregory M. Peterson, <sup>2,7</sup> and Jackson Thomas <sup>2\*</sup>

### Coronavirus Vaccine Tracker

By Jonathan Corum, Denise Grady, Sui-Lee Wee and Carl Zimmer Updated August 21, 2020

### **Operation Warp Speed**

Biomedical Research in Times of Emergency:
Lessons From History

Deborah Doroshow, MD, PhD , Scott Podolsky, MD, Justin Barr, MD, PhD

Author, Article and Disclosure Information
https://doi.org/10.7326/M20-2076

Mistrust in biomedical research and vaccine hesitancy: the forefront challenge in the battle against COVID-19 in Italy

Lorenzo Palamenghi<sup>1</sup> · Serena Barello<sup>1</sup> · Stefania Boccia<sup>2,3</sup> · Guendalina Graffigna<sup>1</sup>

**APPROVAL** PRECLINICAL PHASE 1 PHASE 2 PHASE 3 13 Vaccines Vaccines Vaccines Vaccines Vaccines not yet in testing safety in expanded in large-scale approved for early

safety trials

efficacy tests

or limited use

CLINICAL IMPLICATIONS OF BASIC RESEARCH

and dosage

Amplifying RNA Vaccine Development

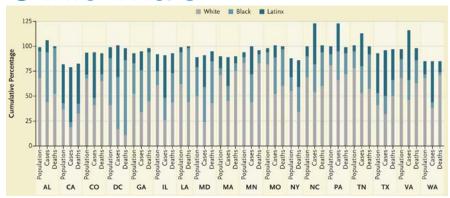
Deborah H. Fuller, Ph.D., and Peter Berglund, Ph.D.

 Scientific community's effort to develop a vaccine may be hindered by public's perception of safety and overall vaccine hesitancy. We need to foster an environment of trust between medical community and society.

human trials

- 8 Vaccines in Phase 3 including mRNA vaccines
- 2 Vaccines Approved
  - Russian Gamelaya Research Institute's Sputnik V vaccine (Gam-COVID-Vac) has been approved for early use. There is concern that the vaccine has not yet entered Phase 3 clinical trials
  - Chinese CanSino Biologics's vaccine Ad5 has been approved for limited use
     UCSan Diego Health

# Racial Disparities in Clinic Trials



Racial demographics and COVID-19 confirmed cases and deaths: a correlational analysis of 2886 US counties

#### Uma V. Mahajan, Margaret Larkins-Pettigrew

School of Medicine, Case Western Reserve University, Cleveland, OH 44106, USA Address correspondence to Uma V. Mahajan, E-mail: uvm2@case.edu

Greater risk of severe COVID-19 in Black, Asian and Minority Ethnic populations is not explained by cardiometabolic, socioeconomic or behavioural factors, or by 25(OH)-vitamin D status: study of 1326 cases from the UK Biobank

Zahra Raisi-Estabragh<sup>1,2</sup>, Celeste McCracken<sup>1</sup>, Mae S. Bethell<sup>3</sup>, Jackie Cooper<sup>1</sup>, Cyrus Cooper<sup>4,5,6</sup>, Mark J. Caulfield<sup>1</sup>, Patricia B. Munroe<sup>1</sup>, Nicholas C. Harvey<sup>4,5</sup>, and Steffen E. Petersen<sup>1,2</sup>

#### Letters

**RESEARCH LETTER** 

Assessment of COVID-19 Hospitalizations by Race/Ethnicity in 12 States



Despite effort, enrollment of minorities for coronavirus vaccine trial is lagging

#### Perspective

Racial Disproportionality in Covid Clinical Trials

Daniel B. Chastain, Pharm.D., Sharmon P. Osae, Pharm.D., Andrés F. Henao-Martínez, M.D., Carlos Franco-Paredes, M.D., M.P.H., Joeanna S. Chastain, Pharm.D., and Henry N. Young, Ph.D.

- Studies have shown disproportionately higher rates of COVID-19 infection, hospitalization, and death in minority groups
- Underrepresentation of minority groups in COVID-19 clinical trials may stem from a number of reasons including medical distrust from minority communities, limited accessibility, hidden costs, poor health literacy, implicit biases, etc

### What to expect when influenza season arrives?

**Medical News & Perspectives** 

ONLINE FIRST FREE

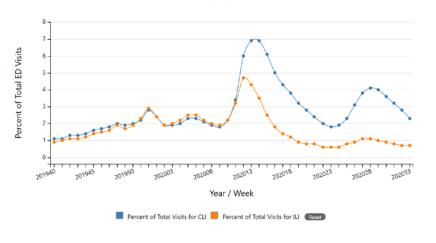
August 20, 2020

## What Happens When COVID-19 Collides With Flu Season?

Rita Rubin, MA

JAMA. Published online August 20, 2020. doi:10.1001/jama.2020.15260

NSSP: Percentage of Visits for Influenza-Like Illness (ILI) and COVID-19-Like Illness (CLI) to Emergency Departments, Weekly National Summary, September 29, 2019 - August 15, 2020



August 20, 2020

Flu Vaccination Urged During COVID-19
Pandemic

Mary Chris Jaklevic, MSJ

- Percentages of visits for COVID-19-like illnesses and influenza-like illnesses have decreased
- While the percentage of visits for ILI have decreased, it is higher than expected for this time of the year

### Changing Face of Medicine

Population Health Management, Ahead of Print

Original Article



#### Health Inequalities in the Use of Telehealth in the United States in the Lens of COVID-19

Dena H. Jaffe ., Lulu Lee, Stephanle Huynh, and Thomas P. Haskel

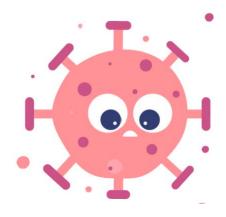
Telemedicine, the current COVID-19 pandemic and the future: a narrative review and perspectives moving forward in the USA

Asim Kichloo, <sup>1</sup> Michael Albosta <sup>1</sup> Nirk Dettloff, Farah Wani, <sup>2</sup> Zain El-Amir, <sup>1</sup> Jagmeet Singh, <sup>3</sup> Michael Aljadah, <sup>1</sup> Raja Chandra Chakinala, <sup>3</sup> Ashok Kumar Kanugula, <sup>4</sup> Shantanu Solanki, <sup>3</sup> Savneek Chugh <sup>1</sup> Savneek Chugh

Digital Inequality During a Pandemic: Quantitative Study of Differences in COVID-19-Related Internet Uses and Outcomes Among the General Population

Alexander JAM van Deursen, Prof Dr 🕞

- COVID-19 pandemic has led to the rapid advancement of telemedicine
- A significant portion of patients may meet criteria for "telemedicine unreadiness". These vulnerable patients include the elderly and less educated with low literacy levels. Some even lack access to computers with high-speed internet or smartphones with wireless data
  - If a telemedicine visit is feasible, simple measures can be used to optimize the encounter including patient's preference for phone/computer interface, use of video when possible, speaking slowly and clearly, summarizing, etc



# **Expert Discussants**