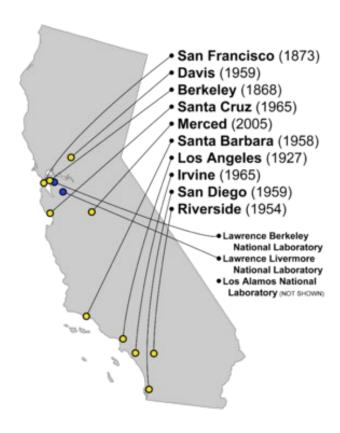
University of California

- 10 campuses and 3 national labs
- ~200,000 employees, ~250,000 students/yr

University of California Health

- Tenth largest health system in the US (by revenue)
- 20 health professional schools (6 med schools)
- Train half the medical students/residents in California
- 12 hospitals, 1000 care delivery sites
- 150,000 inpatient and 4 million outpatient /year
- 5000 faculty physicians, 12000 nurses
- ~\$2b NIH funding, \$13+b clinical operating revenue
- UCSF and UCLA are in US News top 10
- 5 NCI Comprehensive Cancer Centers, 5 NIH CTSA
- IRB reliance, centralized contracting

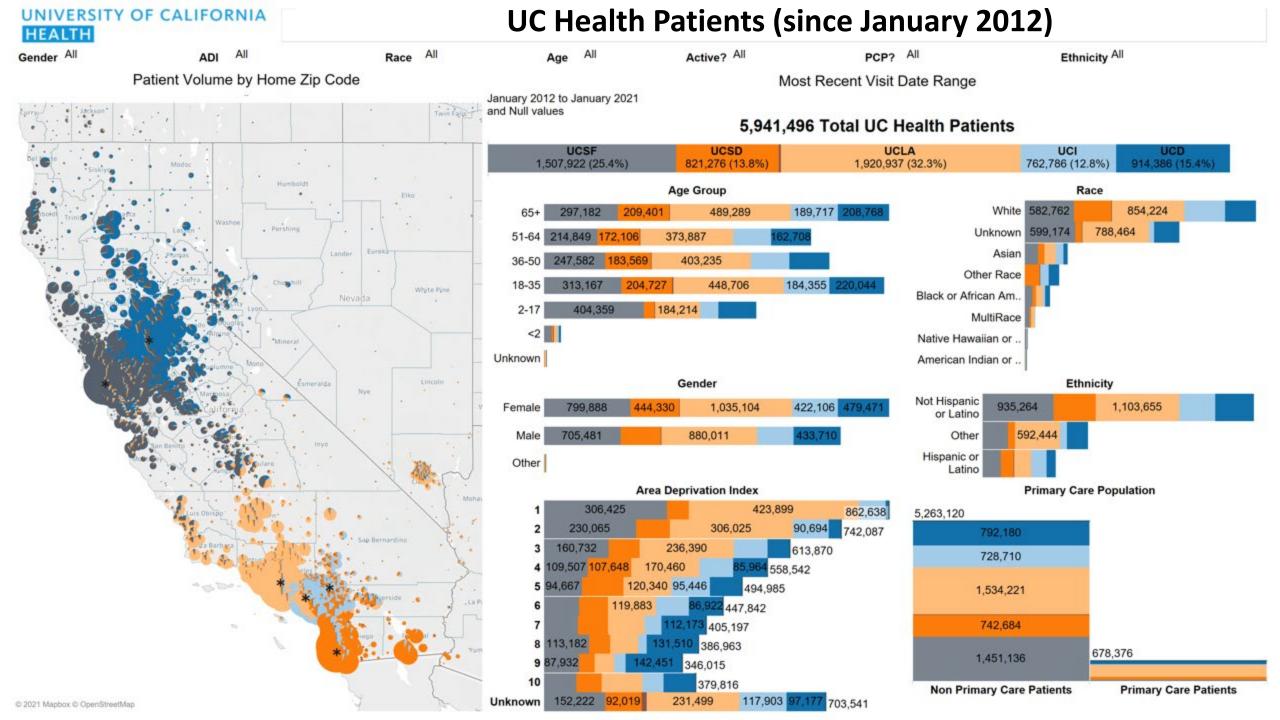
UNIVERSITY OF CALIFORNIA HEALTH



The University of California has an incredible view of the medical system

- Combined EHR data from UCSF, UCLA, UC Irvine, UC Davis, UC San Diego, and UC Riverside
- Central database built using OMOP (not Epic) as a data backend
 - First Epic installation was January 2012
 - Structured data from 2012 to the present day
 - 7.0 million patients with "modern" data
 - 220M encounters, 560M procedures, 798M med orders,
 722M diagnosis codes, 2.1B lab tests and vital signs
 - "From Tylenol to CAR-T cells..."
 - California OSHPD data, pathology and radiology text elements, death index
 - Claims data from our self-funded plans now included
 - Continually harmonizing elements
- Quality and performance dashboards

3.1 million hemoglobin A1c measurements across University of California Health 1250000 -3.1 million hemoglobin A1c measurements 1000000 -750000 -Count 500000 -250000 -0 -15 Hemoglobin A1c



All University of California academic medical centers provide health data to patients through FHIR (and Apple Health)

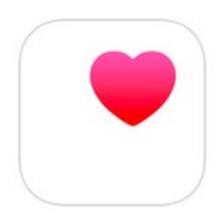
Health Records on iPhone (Beta)

Keep track of clinical health records from multiple sources. and automatically receive updates. To get started, add your

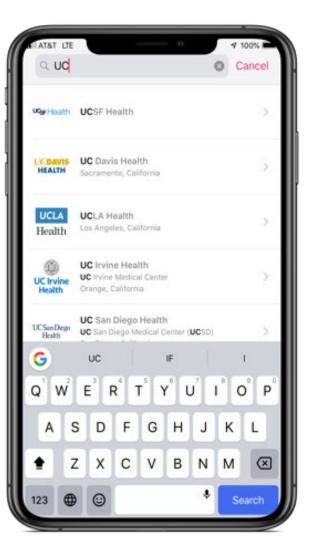
account information from participating health networks and hospitals. About Health Records & Privacy

Health Data

Health Records



Get Started



bit.ly/ucappleh

Many operational teams within UC Health now using and benefitting from the UC Health Data Warehouse, saving \$millions

Central tools to improve quality of care

Managing costs in our self-funded health plans

Decreasing specific unnecessary inpatient drug use

Centralized population health management





Research Letter | Infectious Diseases

Age- and Sex-Associated Variations in the Sensitivity of Serological Tests Among Individuals Infected With SARS-CoV-2

Rohit Vashisht, PhD; Ayan Patel, MS; Bridgit O. Crews, PhD; Omai B. Garner, PhD; Lisa Dahm, PhD; Charles Wilson, BS; Atul J. Butte, MD, PhD

Introduction

Antibodies against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) are known to appear 2 to 3 weeks after infection, 1-3 but patient characteristics and measurement timing could influence this immune response. This cohort study investigated the sensitivity of antibody tests to detect previous SARS-CoV-2 infection using existing clinical data across the University of California Health (UC Health) system.

Methods

The institutional review boards across the UC Health system determined this cohort study was not human participants research and therefore was exempt from approval and informed consent. This study is reported following the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) reporting guideline.

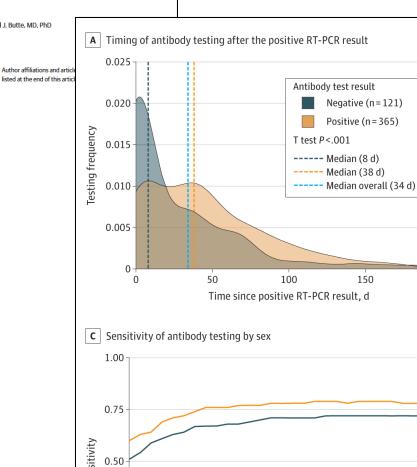
The UC Health system treats the general population across 6 academic health centers and 12 hospitals, with approximately 150 000 inpatient and 4 million outpatient visits yearly. Data for this cohort study were drawn from the UC coronavirus disease 2019 (COVID-19) research data set (UC CORDS), a Health Insurance Portability and Accountability Act-limited data set comprising more than one-quarter-million patients tested for SARS-CoV-2 in any inpatient or outpatient setting. Three types of clinical immunoglobulin G (IgG) measurements were obtained between February 1 and October 15, 2020, in patients with real-time reverse transcription-polymerase chain reaction (RT-PCR) confirmation of SARS-CoV-2 infection. The sensitivity of the antibody test was calculated in 7-day increments from the positive RT-PCR test. We used t test to compare sensitivity by patientreported sex. Analysis of variance was used to compare sensitivity by test types and age groups, followed by pairwise comparison using Tukey Honest Significant Differences. P values were 2-sided and corrected for multiple hypotheses. Statistical significance was set at P < .05. Analyses were conducted using R statistical software version 3.6.3 (R Project for Statistical Computing). Data were analyzed from August 1, 2020, to October 20, 2020.

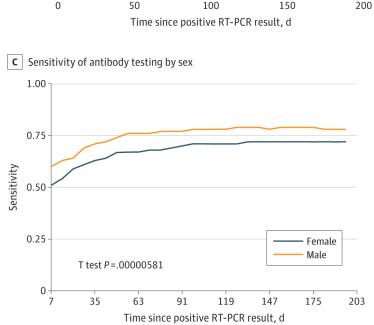
Results

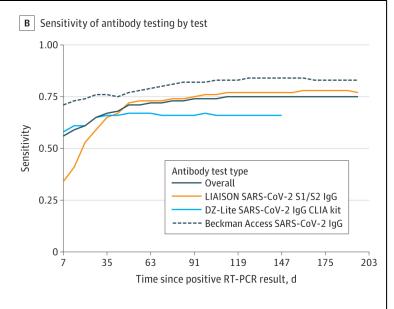
Across the UC Health system, 277 567 patients were tested via RT-PCR for SARS-CoV-2 infection (mean [SD] age 47.0 [21.0] years; 150 133 [54.1%] women), and 14 290 were tested for SARS-CoV-2 IgG antibodies (Table). Of 10 065 patients with RT-PCR results positive for SARS-CoV-2 infection (mean [SD] age 41.4 [19.9] years; 5165 [51.3%] women), 486 patients (4.8%) underwent subsequent SARS-CoV-2 antibody testing a median (interquartile range) of 34 [3-64] days later (Figure, A). Of these, 365 patients (75.1%) had test results positive for antibodies. Antibody response significantly varied based on when the measurement was made. Patients whose serological tests were conducted closer to their positive RT-PCR results were more likely to have negative serological results than those tested later (Figure, A). The likelihood of positive SARS-CoV-2 antibody test results increased with time between the positive RT-PCR result and the antibody test, with sensitivity reaching 0.75 (95% CI, 0.71-0.79) at 112 days after the positive RT-PCR result (Figure, B)

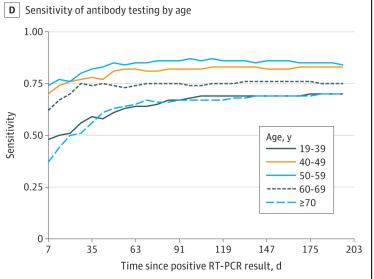
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JAMA Network Open. 2021;4(2):e210337. doi:10.1001/jamanetworkopen.2021.0337









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Data can be used against health systems

Some California Hospitals Refused Covid-19 Transfers for Financial Reasons, State Emails Show https://on.wsj.com/2IUABIt

Denials expose ways hospitals put finances ahead of pandemic response as coronavirus hospitalizations continue to surge



RECOMMENDED VIDEOS

Biden Pledge to Re-Enter Iran Nuclear Deal Will Face Major Hurdles



Biden: 'More People
May Die' From Covid19 Due to Delayed
Transition



3 Several Dead in Uganda as Police Clash With Protesters



4 Police Fire Water Cannon at Protesters in Berlin



5 With Senate Control in the Balance, Biden Faces Tricky Staffing Choices



WSJ MEMBER MESSAGE

Traveling for

Data can be used against health systems

Healthcare workers buy \$882k radio ad to highlight high infection rates at Stanford University Medical Center https://bit.ly/32Yw3b5

Mackenzie Bean - Tuesday, March 20th, 2018 Print | Email







Healthcare workers rolled out an \$882,000 radio ad campaign March 19 to increase awareness about high infection rates and healthcare costs at Stanford (Calif.) University Medical Center.

The minute-long ad will air on 11 radio stations throughout the Bay Area.

"As Stanford Health Care has expanded in the Bay Area, they've lost track of the basics like preventing patient infections," the ad's narrator says. "Patients shouldn't have to worry about contracting infections when treated at Stanford Hospital."

High infection rates rest at the center of a monthslong contract dispute between Stanford University Medical Center and SEIU-United Healthcare Workers West, which represents more than 1,800 Stanford employees. Union members released a report last July citing federal data to highlight patient safety and infection control concerns at the hospital. For example, CMS data showed nearly 700 patients acquired *Clostridium difficile* at