

Data Transparency in COVID Times

Ida Sim, MD, PhD

Co-Founder, Vivli

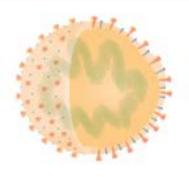
Professor, University of California San Francisco

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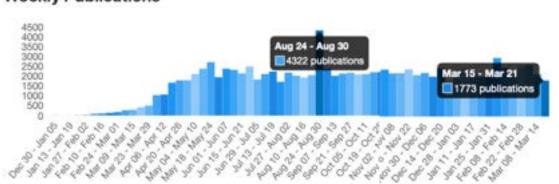


GENERAL MECHANISM TRANSMISSION DIAGNOSIS TREATMENT PREVENTION CASE REPORT FORECASTING



LitCovid is a curated literature hub for tracking up-to-date scientific information about the 2019 novel Coronavirus. It is the most comprehensive resource on the subject, providing a central access to 110934 and growing) relevant articles in PubMed. The articles are updated daily and are further categorized by different research topics and geographic locations for improved access. You can learn more at Chen et al. Nature (2020) or our FAQ, and download our data here.

Weekly Publications



Latest Publications >>

DIAGNOSIS - TREATMENT

Status epilepticus and COVID-19: A systematic review.

Dono, Fedele et al. • Epilepsy Behav

CASE REPORT

Reinfection, recurrence, or delayed presentation of COVID-19? Case series and review of the literature. Elzein, Patchi et al. - J Infect Public Health







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medRxiv is receiving many new papers on coronavirus SARS-CoV-2. A reminder: these are preliminary reports that have not been peer-reviewed. They should not be regarded as conclusive, guide clinical practice/health-related behavior, or be reported in news media as established information.

COVID-19 SARS-CoV-2 preprints from medRxiv and bioRxiv

14,308 Articles (11,072 medRxiv, 3,236 bioRxiv)

Most recent first

Page I: Articles I-10 | Next 🔾

TMPRSS2 inhibitor discovery facilitated through an in silico and biochemical screening platform

Peiffer, A. L., Garlick, J. M., Wu, Y., Soellner, M. B., Brooks, C. L., Mapp, A. K.

10.1101/2021.03.22.436465 - Posted: 2021-03-22

Structural modeling of the SARS-CoV-2 Spike/human ACE2 complex interface can identify high-affinity variants associated with increased transmissibility

Subject Areas

All Articles

Addiction Medicine

Allergy and Immunology

Anesthesia

Cardiovascular Medicine

Dentistry and Oral Medicine

Dermatology

COVID-19 Vaccine Clinical Trials





Effect of Bamlanivimab as Monotherapy or in Combination With Etesevimab on Viral Load in Patients With Mild to Mod-

erate COVID-19

A Randomized Clinical Trial Robert L. Gottlieb, MD, PhD¹; Ajay Nirula, MD, PhD²; Peter Chen, MD³; et al.

> Author Affiliations | Article Information JAMA, 2021;325(7):632-644. doi:10.1001/jama.2021.0202



shed on July 17, 2020, at NEJM.org.

atients with Covid-19

ane RECOVERY Collaborative Group'

MEETING DATE: 10 December 2020

Evolution of Clinical Trial Data Sharing



Clinical Study reports - CSRs & Individual Participant Data (IPD) shared

Summary data shared

Clinical trials registration

ICMJE requirement for publication (2004)
FDAAA requirement for applicable trials (2007)

FDAAA Final Rule (published 2016, effective Jan. 2017) EU no. 536/2014 requires lay summaries (effective late 2020) **EMA Policy 0070** (2014), Policy 0043 (2010)

Health Canada Regulations (2019) (IPD not included)

PhRMA/EFPIA principles for data sharing (2014)

IOM Sharing Clinical Trial Data report (2015) FDA Clinical Data Summary Pilot (Jan. 2018 ICMJE IPD sharing statement (July 2018)



Introducing Vivli

THE ENTITY

- Non-profit organization
- Convenes stakeholders in neutral space
 - Industry, academia, funders, govt, etc
- Community-based governance and policy
 - Harmonizing language & agreements
- Advocating for culture of data sharing
- Oversight of Implementation

THE PLATFORM

- State-of-the art platform for listing, requesting, accessing and computing on individual participant-level clinical trials data (IPD)
- Serving the international community
- Trials from any disease, country, sponsor, funder, or investigator

Vivli by the numbers ...today





Vivli's COVID-19 Portal

- Provides a dedicated search function
- Availability of fast-tracked review and sharing
- Waiver of all fees to share, archive, access, and analyze COVID-19 trials
- Waiver of anonymization fees through key Vivli partners



"d-wise is proud to play its part to accelerate the sharing ecosystem in the fight against COVID-19."

Stephen Baker, d-wise





Intent to Share IPD in a Pandemic

What is the "upper bound" of COVID trialist interest in sharing their IPD?

Methods:

- Data sharing declarations in ClinicalTrials.gov
 - interventional trials on COVID-19 (and related terms) before 6/30/20: 924 COVID interventional trials
 - reviewed data sharing fields
- Data sharing statements in publications
 - Searched PubMed in May 2020 for COVID-related interventional trials in humans: 28 COVID publications
 - reviewed data sharing statements



COVID-19 Trial Registrations: Data Sharing Intent

Intend to share?		Timing of intended sharing	
Yes	145 (16%)	Immediately	56 (39%)
Undecided	131 (14%)	1 to < 6 months	14 (10%)
No	440 (48%)	6-12 months	22 (15%)
	, ,	12-24 months	16 (11%)
	208 (22%)	No timing given	37 (25%)
TOTAL	924	TOTAL NUMBER	145

COVID-19 Trial Publications: Data Sharing Intent

Intend to share	e? (Publication)	Intent at Registration	
Yes	6 (21.4%)	4 ↑	
Undecided	0 (0%)	년 1	
No	1 (3.5%)	1	
No response	21 (75%)	1 2	
TOTAL	28		

Li, R., et al. Trials 22, 153 (2021). https://doi.org/10.1186/s13063-021-05104-z



Summary of COVID-19 Data Sharing Intent

- Before the pandemic, intent to share IPD was in the 5-10% range
- 15% willingness to share is an improvement
- Overall only 7.6% of registered trials agreed to share their data (70/924) within the first 6 months





nature medicine Explore Content ~

Letter | Published: 29 October 2020

Abstract

nature > nature medicine > letters > article

Journal Information >

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Wearable sensor data and self-reported

symptoms for COVID-19 detection Giorgio Quer ☑, Jennifer M. Radin, Matteo Gadaleta, Katie Baca-Motes, Lauren

Ariniello, Edward Ramos, Vik Kheterpal, Eric J. Topol & Steven R. Steinhubl

Nature Medicine 27, 73-77(2021) | Cite this article

41k Accesses | 10 Citations | 706 Altmetric | Metrics

Traditional screening for COVID-19 typically includes survey questions about

symptoms and travel history, as well as temperature measurements. Here, we *now at >36,000 participants

Symptoms alone AUC = 0.71 (IQR 0.63-

54 positive

VS. 0.79) (P < 0.01)

Symptom & sensor data AUC = 0.80 (IQR 0.73-0.86)

279 positive

3,811 reported symptoms

Search C

Login (R)

RSS Feed

Study Period: 25 March and 7 June 2020

N = 30,529* participants

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Broad access to the data under basic Data Use Agreement.

Relies on de-identification to protect patient privacy.

Data availability

All interested investigators will be allowed access to the analysis dataset following registration and pledging to not re-identify individuals or share the data with a third party. All data inquiries should be addressed to the corresponding author.

FAOs

COVID-19

Fight COVID-19 in 5 minutes a day!

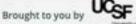
- Identify symptoms
- Help prevent infection
- Track the impact

Use Study Key COVID19 on Mobile.





Participate







57,877 PARTICIPANTS

and counting.

Everyone 18+ years old with an internet connection can participate, whether or not you have been tested for COVID-19!



Default is that de-identified data will be made available to other researchers

You decide how to share your data

We'll ask if you want to share the data you donate with other research studies that you're participating in (so you don't hi ... with other qualified researchers without your name or other other is identifiers (so your data can be used to help people everywhere) gyour default

Data Transparency: "Before" and "After" Times

Dismayingly low level of intention to share clinical trial IPD (15%)

Desire to hold onto the data during a pandemic (only 7.6% willing to share within 6 months of publication)

Different culture of sharing in digital cohort studies: default is sharing "de identified data" to any "qualified" researcher

many patients are willing and want to share their data to accelerate findings

Code availability is still rare