

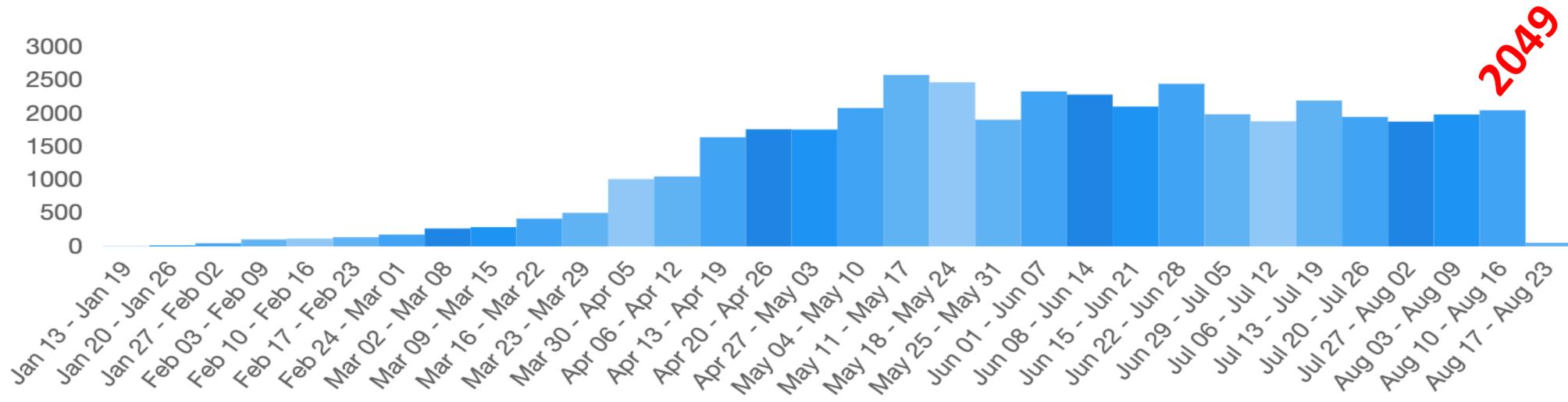
Updates and Controversies in COVID-19

W. Cameron McGuire, MD, MPH

PCCSM Fellow

UC San Diego Health

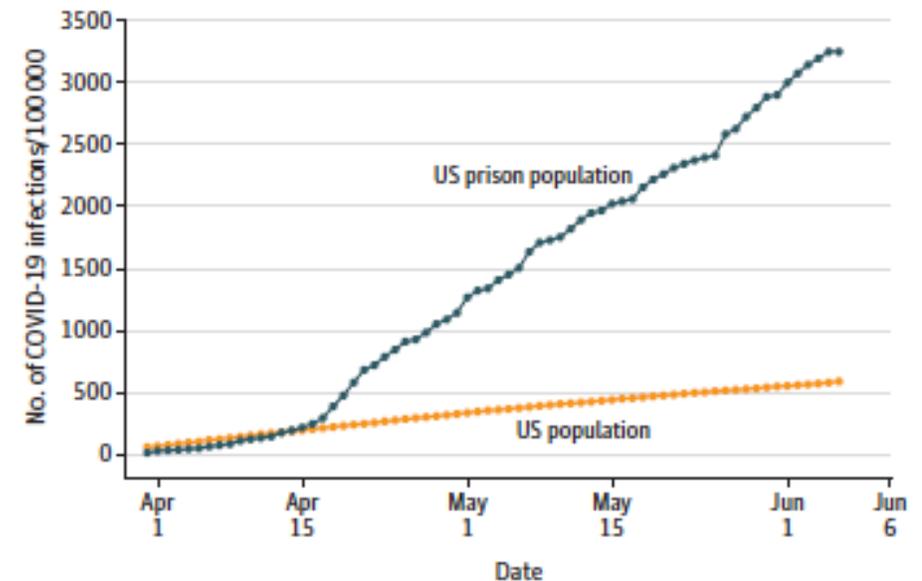
Weekly Publications



COVID Disproportionately Affects At Risk Populations...

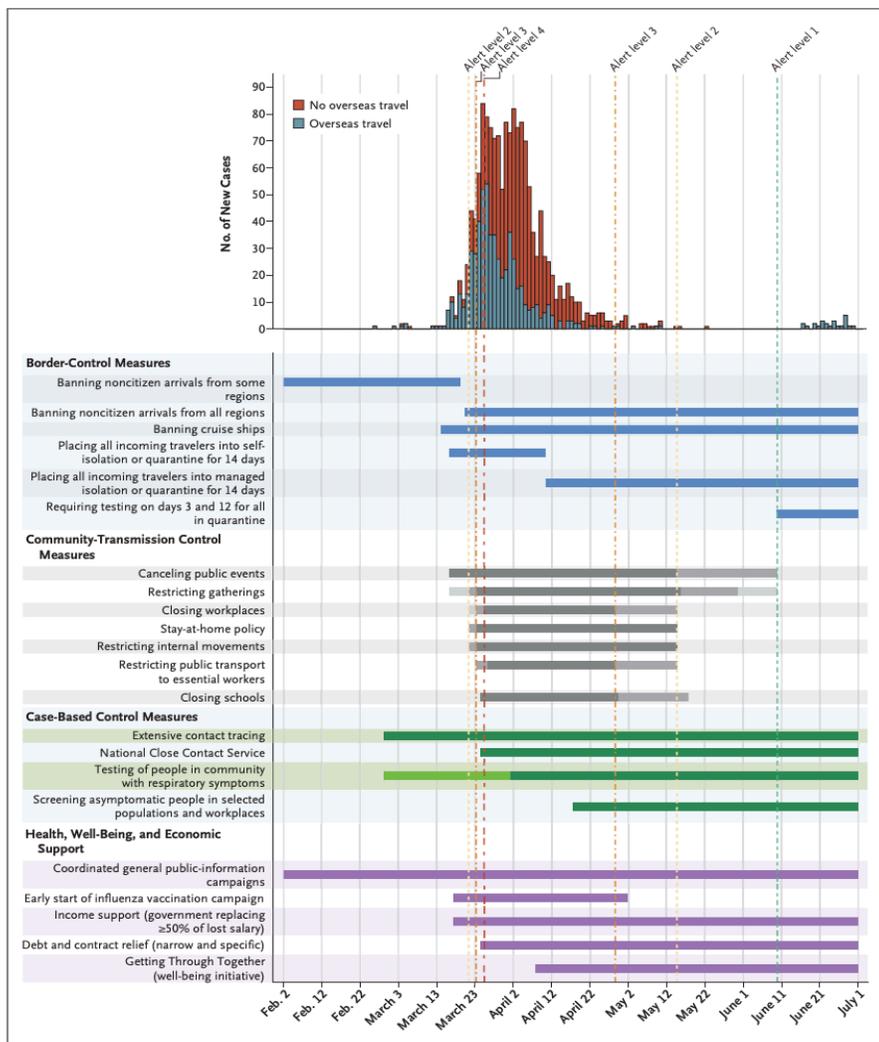


Figure. Trends in Cumulative Coronavirus Disease 2019 (COVID-19) Confirmed Case Rate per 100 000 People for Prison and US Populations



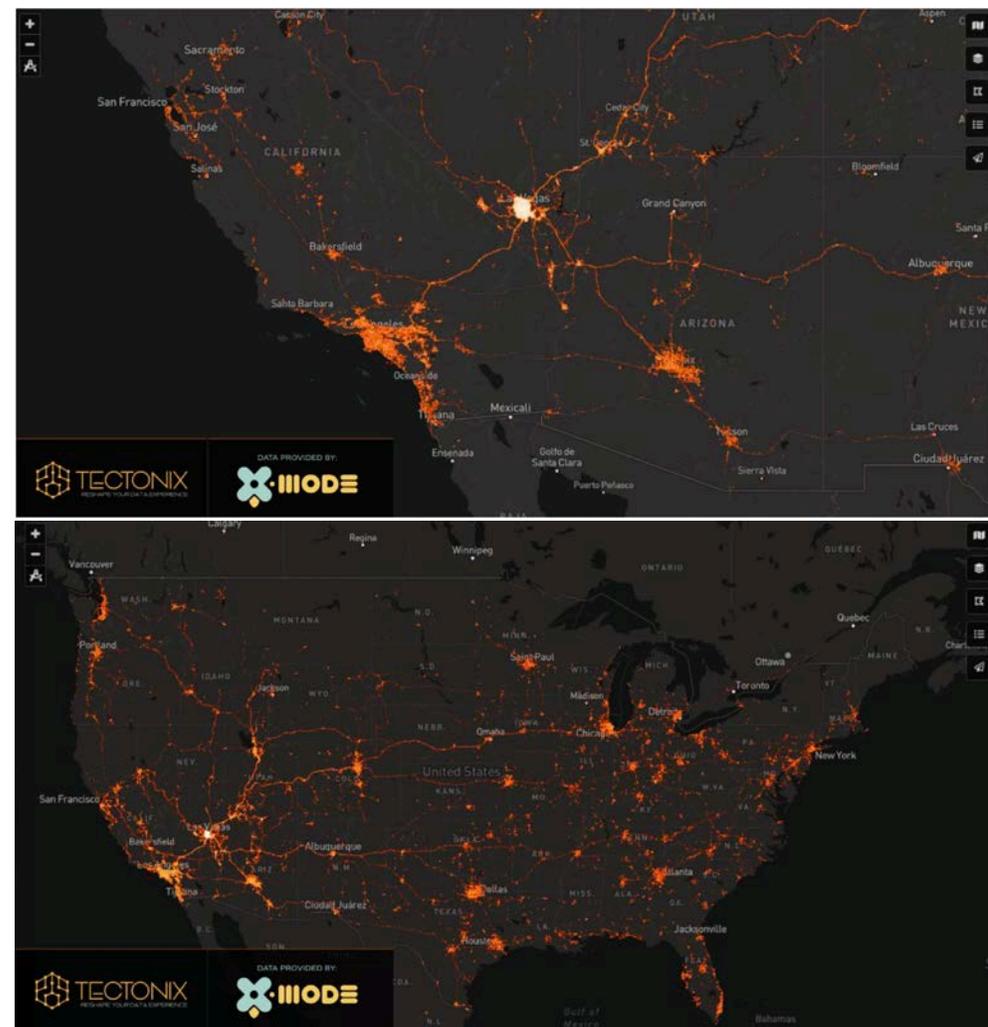
The Spread of COVID-19 Can Be Slowed/Stopped...

Successful Elimination of Covid-19 Transmission in New Zealand



New Zealand suspects 'some failure at the border' after COVID-19 returns

By Dennis Normile | Aug. 12, 2020, 1:45 PM



Hydroxychloroquine is still not a miracle drug...

HCQ Shows Benefit

STUDY	Location	Study Type	N
Chen	In Hospital	Case-Cohort	568
Gautret 1	In Hospital	Retrospective	42
Gautret 2	In Hospital	Retrospective	80
Henry Ford	In Hospital	Retrospective	2541

N = 3151

HCQ Doesn't Show Benefit

STUDY	Location	Study Type	N
Rosenberg	In Hospital	Retrospective	1438
VA Study	In Hospital	Retrospective	368
Boulware	PrEP	RCT	821
Spanish	PrEP	RCT	2300
Recovery	In Hospital	RCT	4674
Orchid*	In Hospital	RCT	470
Solidarity*	In Hospital	RCT	x
Cavalcanti	In Hospital	RCT	667
Discovery	In Hospital	RCT	Ongoing

N = 10738

Annals of Internal Medicine

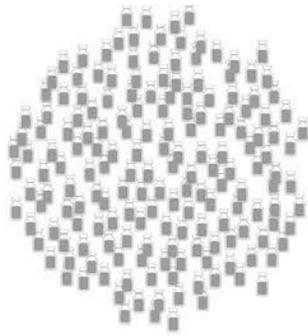
REVIEW

Hydroxychloroquine or Chloroquine for Treatment or Prophylaxis of COVID-19

A Living Systematic Review

Adrian V. Hernandez, MD, PhD; Yuani M. Roman, MD, MPH; Vinay Pasupuleti, MD, MS, PhD; Joshuan J. Barboza, MSc; and C. Michael White, PharmD

Vaccines are coming...



Pre-clinical

170+ vaccines

are being tested in animals and lab experiments



Phase 1

7 vaccines

are being tested in a small number of healthy, young people to assess safety and correct dose



Phase 2

11 vaccines

are broadened to a larger group of people, including people at higher risk of illness



Phase 3

7 vaccines

are being tested in thousands of people to check their effectiveness and safety

Approved

0 vaccines

have been determined to provide benefits that outweigh known and potential risks

But probably not from Russia...

COVID-19 Vaccine developer/manufacturer	Vaccine platform	Type of candidate vaccine	Number of doses	Timing of doses	Route of Administration	Clinical Stage				
						Phase 1	Phase 1/2	Phase 2	Phase 3	
University of Oxford/AstraZeneca	Non-Replicating Viral Vector	ChAdOx1-S	1		IM		PACTR202006922165132 2020-001072-15 Interim Report	2020-001228-32	SRCTN89951424	UK
Sinovac	Inactivated	Inactivated	2	0, 14 days	IM		NCT04383574 NCT04352608		NCT04456595 669/UN6.KEP/EC/2020	China
Wuhan Institute of Biological Products/Sinopharm	Inactivated	Inactivated	2	0,14 or 0,21 days	IM		ChiCTR2000031809		ChiCTR2000034780	China
Beijing Institute of Biological Products/Sinopharm	Inactivated	Inactivated	2	0,14 or 0,21 days	IM		ChiCTR2000032459		ChiCTR2000034780	China
Moderna/NIAID	RNA	LNP-encapsulated mRNA	2	0, 28 days	IM	NCT04283461 Interim Report		NCT04405076	NCT04470427	US
BioNTech/Fosun Pharma/Pfizer	RNA	3 LNP-mRNAs	2	0, 28 days	IM		2020-001038-36 ChiCTR2000034825 Study Report		NCT04368728	US
CanSino Biological Inc./Beijing Institute of Biotechnology	Non-Replicating Viral Vector	Adenovirus Type 5 Vector	1		IM	ChiCTR2000030906 Study Report		ChiCTR2000031781 Study Report		China

We Don't Know What We Don't Know...

From 'brain fog' to heart damage, COVID-19's lingering problems alarm scientists

By [Jennifer Couzin-Frankel](#) | Jul. 31, 2020, 1:30 PM

ACCEPTED MANUSCRIPT

The emerging spectrum of COVID-19 neurology: clinical, radiological and laboratory findings

[Ross W Paterson](#), [Rachel L Brown](#), [Laura Benjamin](#), [Ross Nortley](#), [Sarah Wiethoff](#), [Tehmina Bharucha](#), [Dipa L Jayaseelan](#), [Guru Kumar](#), [Rhian E Raftopoulos](#), [Laura Zambreanu](#) ... [Show more](#)

[Author Notes](#)

Brain, awaa240, <https://doi.org/10.1093/brain/awaa240>

Published: 08 July 2020 **Article history** ▼

WEB EXCLUSIVE CONTENT: COMMENTARY

Long-term Pulmonary Consequences of Coronavirus Disease 2019 (COVID-19) What We Know and What to Expect

[Salehi, Sana MD](#); [Reddy, Sravanthi MD](#); [Gholamrezanezhad, Ali MD](#) [Author Information](#) 

Journal of Thoracic Imaging: July 2020 - Volume 35 - Issue 4 - p W87-W89

doi: 10.1097/RTI.0000000000000534

Original Investigation

ONLINE FIRST 

July 27, 2020

Outcomes of Cardiovascular Magnetic Resonance Imaging in Patients Recently Recovered From Coronavirus Disease 2019 (COVID-19)

[Valentina O. Puntmann, MD, PhD¹](#); [M. Ludovica Carerj, MD^{1,2}](#); [Imke Wieters, MD³](#); [et al](#)

More on Clinical Characteristics of Pregnant Women with Covid-19 in Wuhan, China

A Legacy? Or Cautionary Tale? of COVID-19...

Medical preprint server debuts



BMJ Yale

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By [Jocelyn Kaiser](#) | Jun. 5, 2019, 7:00 PM

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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

7802 Articles (6173 medRxiv, 1629 bioRxiv)

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