ORTHEAST

BUSINESS GROUP ON HEALTH

COVID-19 Update Dr Mark Cunningham-Hill Medical Director NEBGH

Monday April 11th, 2022

Daily new confirmed COVID-19 cases & deaths per million people



7-day rolling average. Limited testing and challenges in the attribution of cause of death means the cases and deaths counts may not be accurate.





New cases (per 1M)

Excess mortality: Deaths from all causes compared to projection based on previous years



The percentage difference between the reported number of weekly or monthly deaths in 2020–2022 and the projected number of deaths for the same period based on previous years. The reported number might not count all deaths that occurred due to incomplete coverage and delays in reporting.



Source: Human Mortality Database (2022), World Mortality Dataset (2022)

COVID-19 Community Levels of All Counties in US



COVID-19 Community Levels in US by County

_	Total	Percent	% Change
High	19	0.59%	0.06%
Medium	123	3.82%	- 0.72%
Low	3082	95.6%	0.66%

New Cases¹ (per 100,000 population in the last 7 days)	Indicator	Low	Medium	High
<200 cases	New COVID-19 admissions per 100,000 population (7- day total) ²	<10.0	10.0-19.9	≥20.0
	Percent of staffed inpatient beds in use by COVID-19 patients (7-day average) ³	<10.0%	10.0-14.9%	≥15.0%
≥200 cases	per 100,000 population (7- day total)	<10.0	≥10.0	
		<10.0%	≥10.0%	

Sun Apr 10 2022 16:10:36 GMT-0400

Medium

🛑 High

No Data

Low

Community Transmission of All Counties in US



Community Transmission in US by County

_	_	Total	Percent	% Change
	High	403	11.38%	- 0.45%
	Substantial	415	11.72%	- 3.7%
	Moderate	1525	43.08%	- 0.82%
	Low	876	24.75%	4.94%

	Low	Moderate	Substantial	High
w cases per 100,000 rsons in the past 7 days*	<10	10-49.99	50-99.99	≥100
rcentage of positive NAATs ts during the past 7 days**	<5%	5-7.99%	8-9.99%	≥10.0%

🛑 High 🛛 🛑 Substantial 💛 Moderate 🔵 Low 🜑 No Data

Testing

- Testing down
- Many at home tests go unreported

Daily new COVID-19 tests

methods.

7-day rolling average. Comparisons across countries are affected by differences in testing policies and reporting



Source: Official data collated by Our World in Data

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Our World in Data

New York



Forecast of NYC COVID-19 Cases

https://github.com/reptalex/NYC BA2 dashboard

Living with COVID

California is first to unveil plan to live with virus; 'stealth omicron' could be more dangerous than initial version: COVID-19 updates

Jorge L. Ortiz, John Bacon and Jeanine Santucci USA TODAY





Opinion: The Gridiron Club outbreak shows what living with covid-19 looks like



The Washington Post



Individual Level

- If you are fully vaccinated <u>and</u> boosted and relatively fit, there is still a reasonably high risk of catching COVID, but your illness is likely to be 'relatively' mild.
 - Long-COVID is also a risk
- If you want to get back to life as before then that is okay but don't assume there are no risks!
- If you want to be a little safer then:
 - Wear a KN95 or better mask in high-risk situations or avoid/minimize exposure e.g., crowded spaces indoors, bars, nightclubs, mass transit, etc.
 - Test if you think you may have COVID or 2-3 days after a high-risk exposure
- If you are protecting high-risk family members:
 - \circ $\,$ As above plus have people test prior to visiting your house
 - Remember antivirals and prophylactic drugs
- Track your local situation



Organizational Approach

- Duty of care to provide a safe workplace but what does that mean with a highly infectious virus?
- Tools available:
 - \circ \quad Vaccination and booster mandates
 - Masking for all, those unvaccinated, those who want to
 - Ventilation MERV13+, ACH, Fresh air dilution, UVA, HEPA units, CO₂ levels, etc.
 - Testing surveillance and/or suspected cases and potential cases
 - Occupancy levels
- Factors to consider:
 - Compliance with any local requirements
 - Effectiveness of operations collaboration, productivity, employee engagement, company culture
 - Business risk what is the impact of a workplace outbreak?
 - Employee factors employee sentiment, 'the great resignation'
 - Legal risk



Source: Adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason. Illustration by Rose Wong

My Advice

- Don't throw away all your tools at the first sight of green on the CDC map!
- Track locally relevant data and be reactive to change cautious approach to dropping measures but quicker at reimplementing them
- Double down on ventilation
- Listen to your employees and communicate even when nothing to say!
- Consider the many who are at risk or struggling
- Be prepared it is not if but when!



China and Taiwan



China and Taiwan

Daily new confirmed COVID-19 cases

7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.



Our World in Data

China

- Main outbreak in Shanghai and Jilin Province
- Shanghai is the most significant with 25,173 new cases recorded yesterday (Approximately 1,000 cases per million) but they are testing millions of people
 - 2 weeks of lockdown but maybe moving to designate 3-tiers of risk to neighborhoods with some restrictions lifting for the lower risk
 - Some factories employees are lockdown at work
 - Any positive case moved to government isolation

 sustainability of this approach
 - Food delivery challenges
 - Need special pass to access healthcare but telehealth and pharmacy delivery available





China – Zero-COVID Policy

- Paper published in Nature medicine may indicate a change in China's approach
- Rationale for moving to a 'Living with COVID' approach:
 - Low death rate
 - High vaccination rates
 - Balance between COVID-19 and other socioeconomic issues
- Preparation:
 - Expand online clinical services
 - Train millions of local healthcare workers to provide better services for mild COVID-19 cases
 - Stockpile antivirals, personal protective equipment, N95 masks, ventilators and relevant traditional Chinese medications
- If it is adopted by choice, it will be a step-wise approach.
- The virus may dictate the timing!

		Check for updat	corresponder
		1.11	
ina can prepa	re to e	end its zero	-COVID polic
— To date, mainland			
tly blocked hundreds of eaks that are associated		actors to consider in ending Cl	nina's zero-COVID policy
enabling it to maintain	Factor	Rationale	
policy for more than ough tremendously costly,	Feasibility	From 15 May 2020 to 15 Februa mainland China	ry 2022 there were only two COVID-19 dea
could have saved an on lives, compared with		The global SARS-CoV-2 CFR in that of seasonal influenza	2022 appears to be less than two times hig
of COVID-19 dany people			ed more than 85% in mainland China, and h 2 2 doses on average
id the world are	Advantages		ID-19 and other socioeconomic issues
d when mainland China		A better balance between COV	
ero-case policy to one of S-CoV-2. We believe that			against future potential variants through re
happen sooner or later,		mild infections	against roture potential variants through re
2 will probably become a	Challenges	COVID-19 cases will surge rapi	dly and stay high for months
ction in 2022 and circulate in finitely ^{2,3} .			verwhelmed by too many patients, which co
eral reasons why this feasible in 2022 (Table 1). atal cases in China has been	Strategies for preparedness		o reduce in-person patients and nosocomia
d cases in China has been ,249 new COVID-19	prepareuness	Train millions of local healthcar	e workers to provide better services for mile
land China from		COVID-19 cases	
ebruary 2022, only two 5 March 2022 (case)			otective equipment, N95 masks, ventilators
5 March 2022 (case 0.008%), although		relevant traditional Chinese me	dications
pneumonia ¹ . This low CFR			
any social panic. Indeed, the		r stringent control measures	pandemic. By 2021, 970,036 commu
f SARS-CoV-2, which was		ising cases could overwhelm	hospitals had been established in ma
mes higher than that of		ms (Table 1), which could	China, employing more than 3 milli
luenza (~0.12%) in April 2020,		the COVID-19 CFR.	healthcare workers (around 1 comm
ely less than 2 times higher than		2 is currently circulating in	hospital for every 1,400 residents)6.
sonal influenza in 2022 (ref. 3) due		orea and Hong Kong at	millions of local healthcare workers
fects of mass vaccination, immunity		ich should be observed	can be trained to provide better onli
ction and the highly transmissible		al pilot experiments to	and offline healthcare services for m COVID-19 cases ⁷ .
ely low-pathogenicity Omicron		s of the change in mainland	
rthermore, COVID-19 n coverage reached more		l be noted that the cination rate is low in	Mainland China should also stoc
coverage reached more mainland China, with each			antivirals, personal protective equip
alated with around 2.2 doses		rticularly in elderly	N95 masks and ventilators, particula community hospitals. Traditional Cl
area with around 2.2 doses	people, which it	nay render the COVID-19 more severe than in	medications should also be consider
from a zoro COVID	mainland Chin		
nge from a zero-COVID rill come with many advantages.		a. or the end of the	as they have a profound role in Chin society and may help relieve mild
Il come with many advantages, it challenges (Table 1). The			society and may help relieve mild respiratory symptoms.
at challenges (Table 1). The ild better balance the control		olicy, we propose that online healthcare	
19 versus other socioeconomic		be widely and rapidly	It is our view that mainland Chin
19 versus other socioeconomic change should also better		be widely and rapidly at mild COVID-19 cases	should consider changing stepwise from the zero-COVID approach in
ange should also better ontrol of COVID-19 versus			from the zero-COVID approach in April or May 2022. By this time, vac
ontrol of COVID-19 versus s, as the zero-COVID approach		ome. This could prevent	
		being overwhelmed and	immunity will not have declined much and most parts of the country
vast public health resources.		he risk of nosocomial	much and most parts of the country
ing with the virus in a		iding to healthcare	be warm. There is some evidence th
nated population can lead		ne 2021, mainland China	SARS-CoV-2 is less transmissable in
immunity against various		1 more than 1,600 online	warmer months8, when co-infection
variants through repeated nfections ²⁻⁴ .		nore than 239 million	with other respiratory pathogens wi
		g a solid foundation velopment of online	also be less frequent.
			Regardless of when the zero-COV
llenge of moving away			
nge of moving away D approach in populous	healthcare servi	ices.	
est challenge of moving away -COVID approach in populous ina is that SARS-CoV-2 cases apidly, with high case numbers	healthcare servi Local health		policy changes, preparations should implemented in advance to confront the challenges.

Mental Health is Going Viral

- Therapists are turning to Tik Tok and other social media platforms – APA recently issued guidelines¹ but still limited regulations/controls
- Therapists linked to providers
- Many unqualified people offering advice
- Social media algorithms mean one search filters and drives more posts

Potentially dangerous rabbit holes of misinformation and self diagnosis



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Questions

Upcoming NEBGH virtual events:
April 18 – Special Edition COVID-19 Update: Long COVID w/ Mount Sinai's Dr. Zijian Chen
April 27 – Mental Health Parity Refresh
June 16 - Benefits Leadership for a Changing World: Accept the Challenge!