COVID-19: From USNORTHCOM to the next pandemic

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I have no financial disclosures and I hold no individual equity investments.

I will not discuss any off-label medication use.

My journey

COVID-19 and USNORTHCOM

COVID-19 what happened?

COVID-19 where do we go from here?

Journey to and through COVID-19



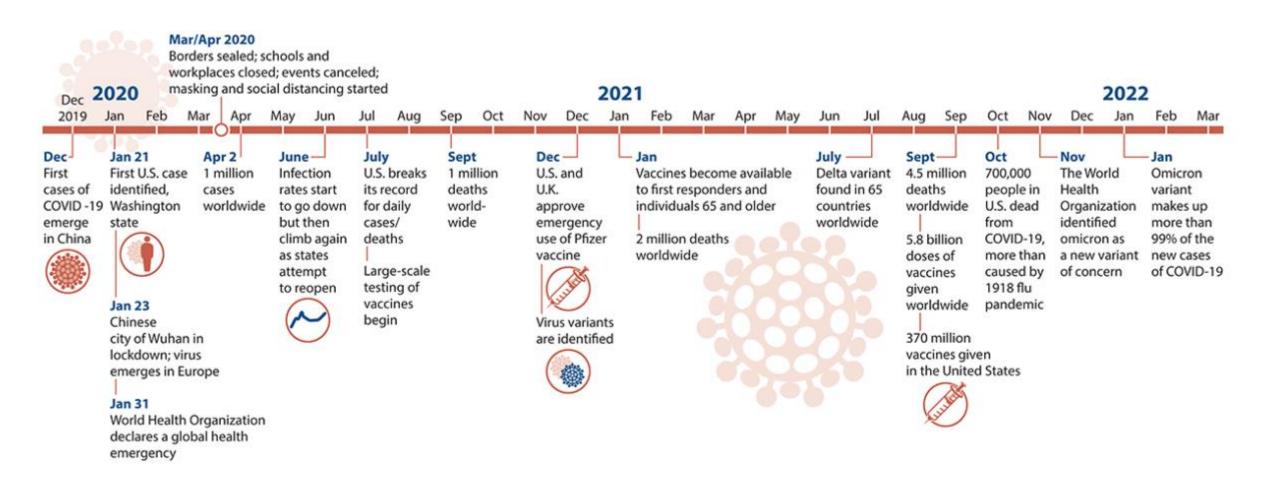
My journey

COVID-19 and USNORTHCOM

COVID-19 what happened?

COVID-19 where do we go from here?

COVID-19 timeline to the vaccine



Source: https://covid19.macmillanlearning.com/

DoD and COVID-19: a whole of government response

Non-exhaustive



















My journey

COVID-19 and USNORTHCOM

COVID-19 what happened?

COVID-19 where do we go from here?

Was COVID-19 leaked from a lab?

Non-exhaustive

Lab - leaked



Not sure





Most scientists



Most people



What about?

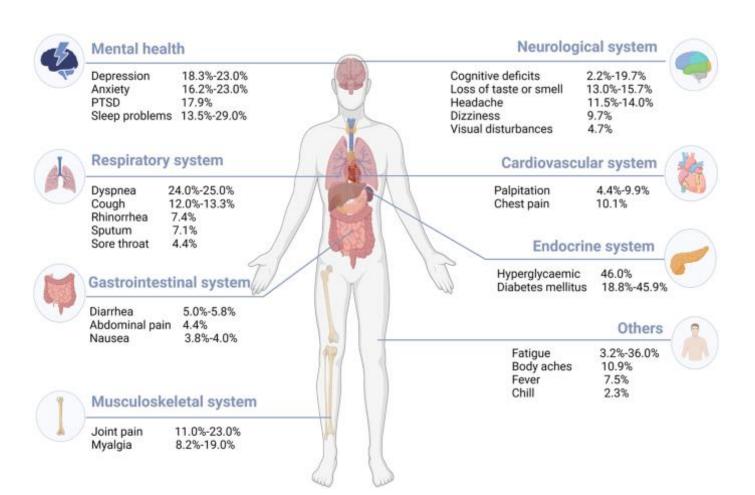






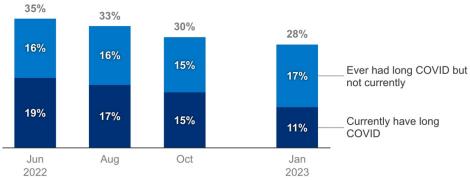


What will long COVID mean for people?



Among People Who Have Had COVID, the Percentage who Currently Have Long COVID is Declining

Percentage of people reporting that they currently have or ever had long COVID among those who have had COVID as of January 16, 2023



What do masks do?

Table.	Face Mas	k FFE Agains	t Submicron	Particle	Penetration
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Condition	% FFE (SD) ^a
New	44.7 (6.4)
New	56.3 (6.5)
New	74.4 (4.8)
Washed 1 time	79.0 (4.3)
New	49.9 (5.8)
New	49.0 (6.2)
New	37.8 (5.2)
New	39.3 (7.2)
New	28.6 (13.9)
New	26.5 (10.5)
New	98.4 (0.5)
New	71.5 (5.5)
New	38.5 (11.2)
New	60.3 (11.1)
New	61.7 (6.5)
New	64.8 (5.1)
New	78.2 (3.3)
New	80.2 (3.1)
	New New Washed 1 time New New New New New New New New New Ne

Abbreviations: FFE, fitted filtration efficiency; NIOSH, National Institute for Occupational Safety and Health.





















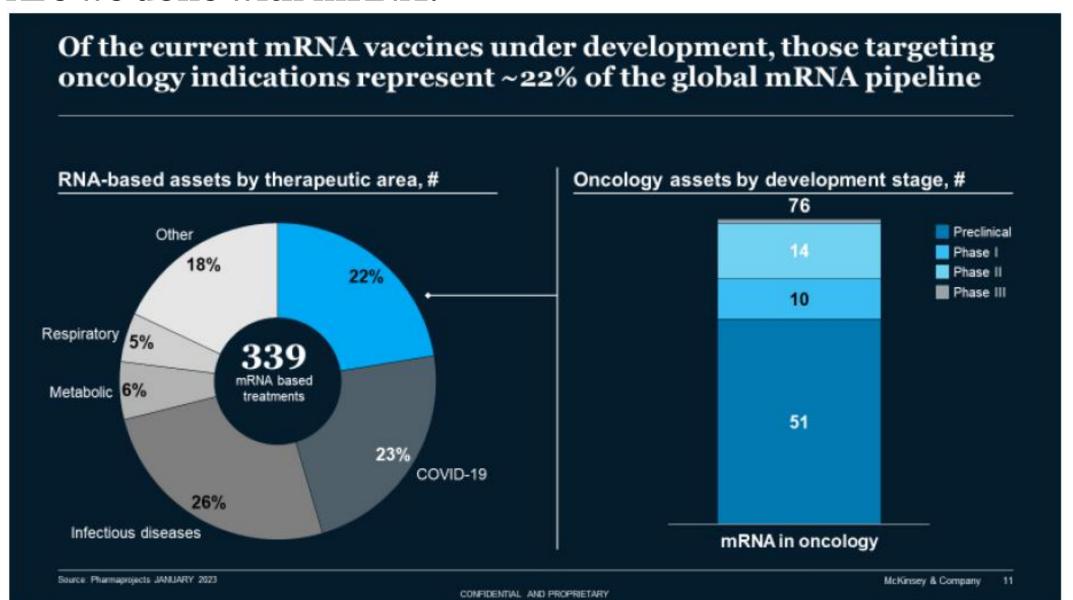






Clapp PW, Sickbert-Bennett EE, Samet JM, et al. Evaluation of Cloth Masks and Modified Procedure Masks as Personal Protective Equipment for the Public During the COVID-19 Pandemic. *JAMA Intern Med.* 2021;181(4):463–469. doi:10.1001/jamainternmed.2020.8168

Are we done with mRNA?



Other questions?

Was lockdown effective?
What will happen with vaccines?
What are some other big takeaways?
Any other questions?

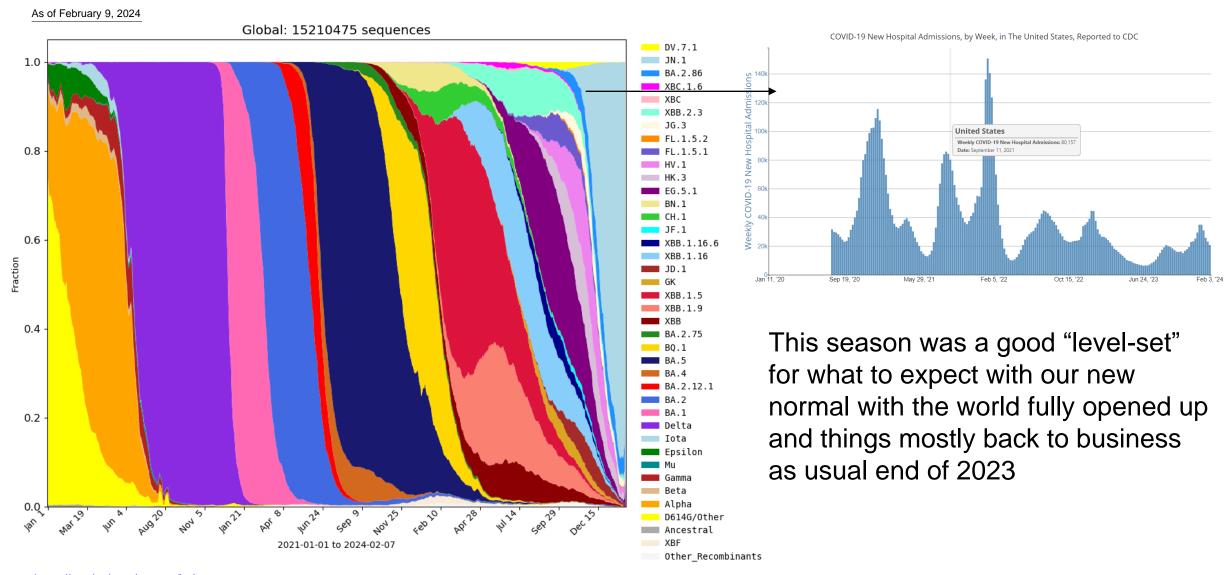
My journey

COVID-19 and USNORTHCOM

COVID-19 what happened?

COVID-19 where do we go from here?

What is happening with COVID-19?



My journey

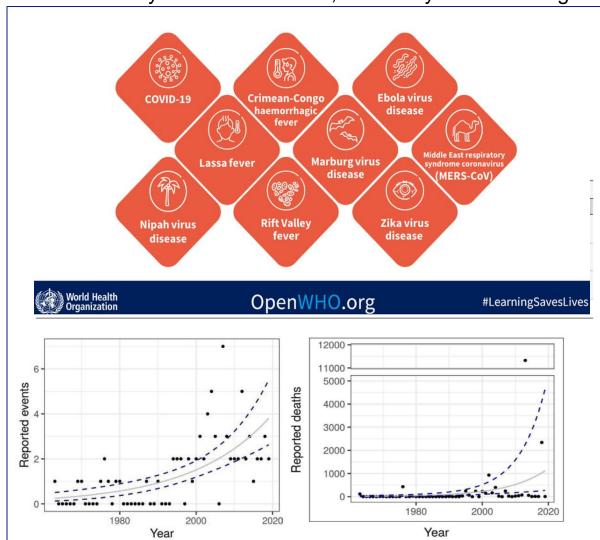
COVID-19 and USNORTHCOM

COVID-19 what happened?

COVID-19 where do we go from here?

What about the next pandemic?

There are many candidate viruses, but it may be something new altogether



In many ways, we were lucky with COVID-19, "only" **5-10M have died**

If global mortality from COVID-19 was close to Spanish Flu in 1918, **160M or more people** could have died...

If global mortality from COVID-19 was close to the black death / plague, **1.2B or more people** could have died...

Taken together, extraordinary efforts are underway to better prepare for the next pandemic

Meadows AJ, Stephenson N, Madhav NK, et al Historical trends demonstrate a pattern of increasingly frequent and severe spillover events of high-consequence zoonotic viruses BMJ Global Health 2023;8:e012026.

Utunen, H., Tokar, A., Dancante, M. et al. Online learning for WHO priority diseases with pandemic potential: evidence from existing courses and preparing for Disease X. Arch Public Health 81, 61 (2023). https://doi.org/10.1186/s13690-023-01080-9 https://www.archives.gov/exhibits/influenza-epidemic/