

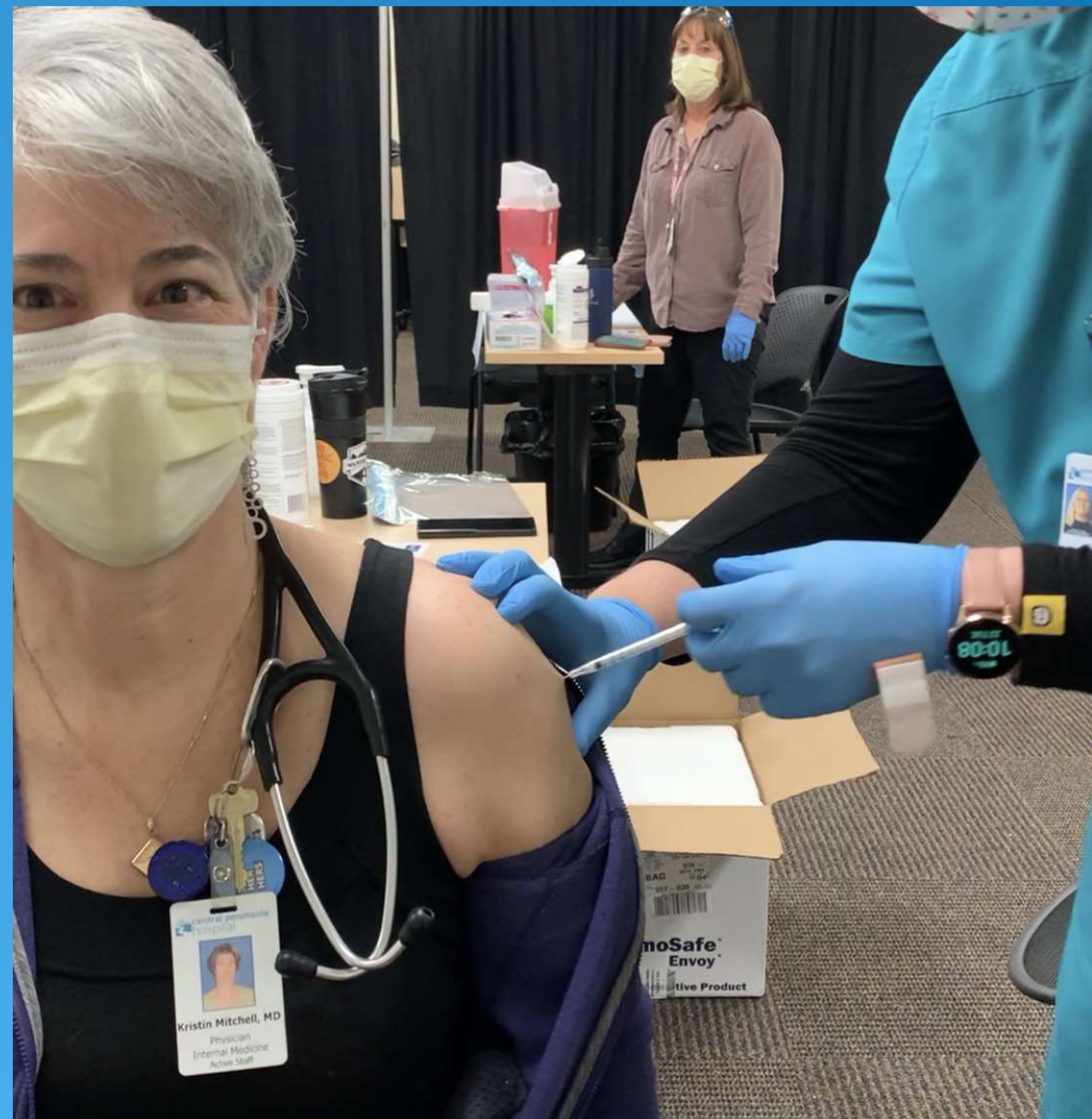


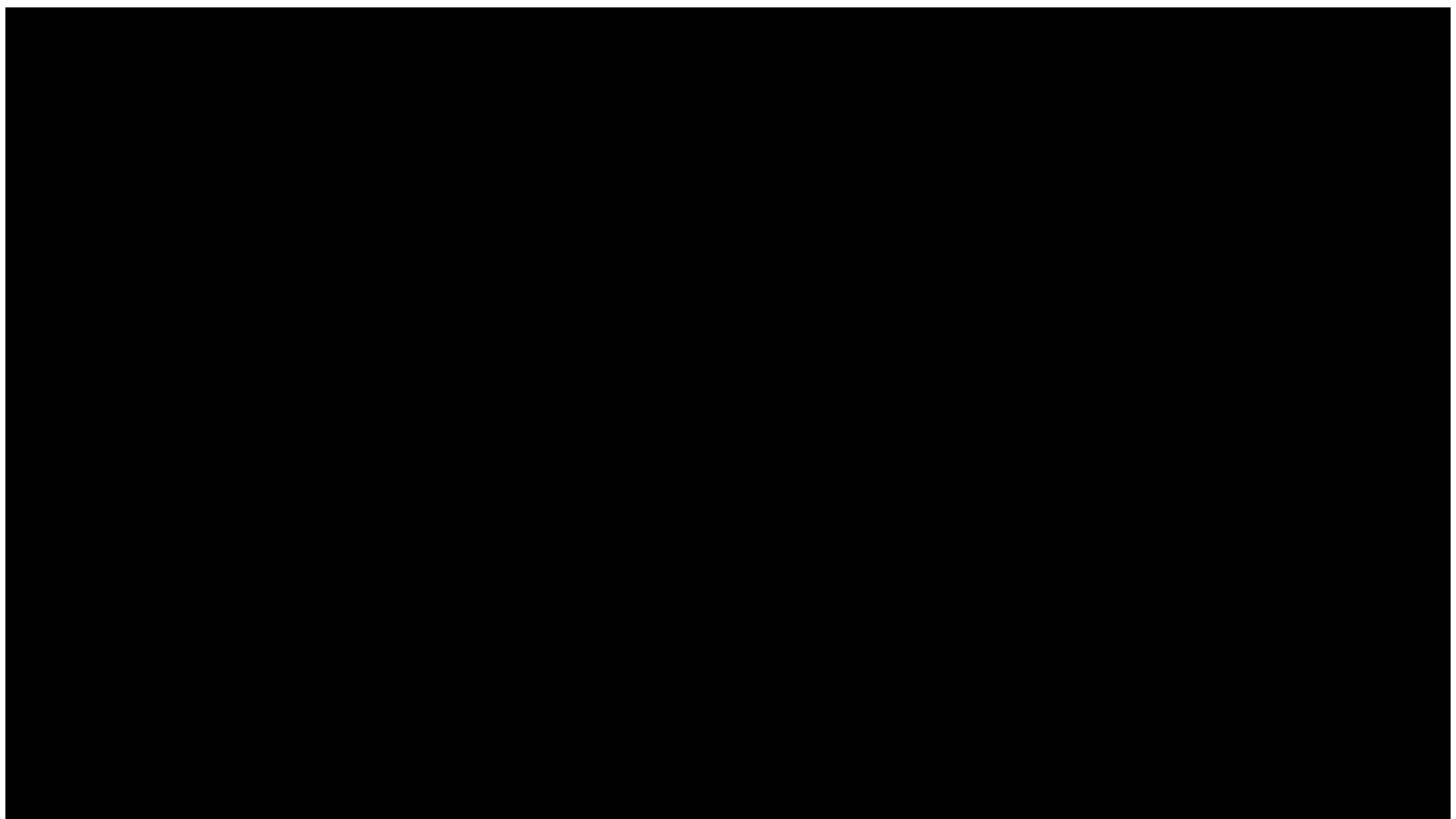
Covid-19 Vaccination Update

**KPB Assembly Meeting
5 January 2021**

Kristin M Mitchell, MD, FACP

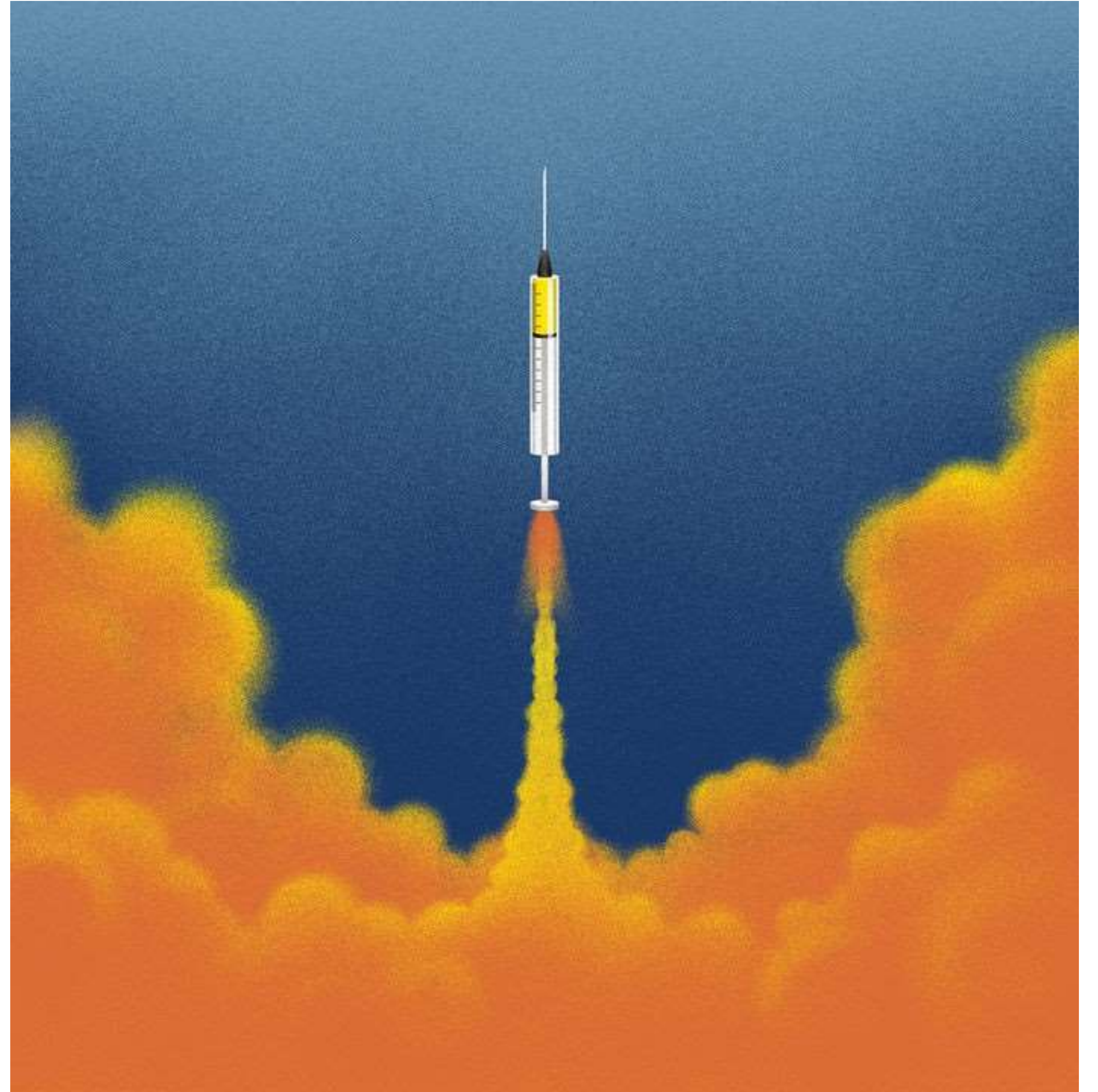
**Covid-19
Vaccination
Soldotna, Alaska
December 22, 2020**





This is the moonshot of our time

Photo credit:
Luca D'Urbino *The Economist*



HOW DID WE GET A VACCINE SO QUICKLY?

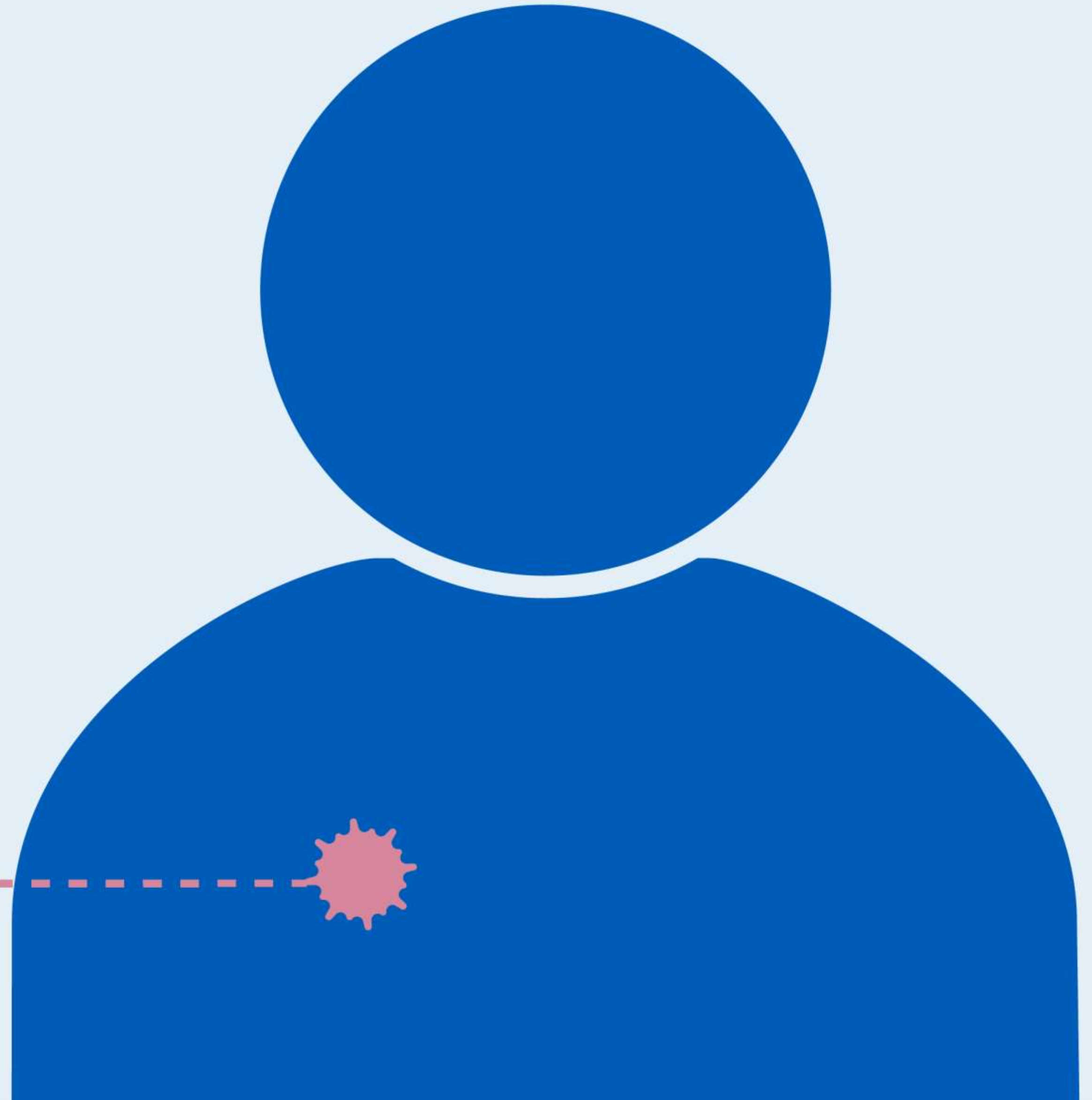
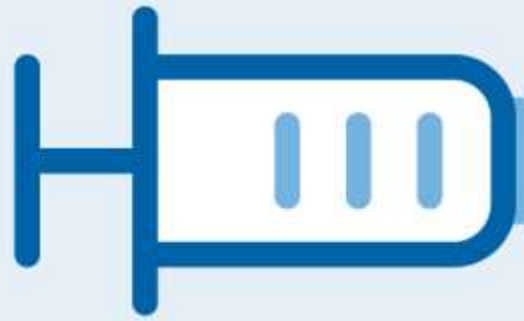
OPERATION WARP SPEED



“This process demonstrates what is possible in the context of motivated collaboration among key sectors of society, including academia, government, industry, regulators and the larger community.”












NIH/Moderna Vaccine trial authors

Vaccines train your body
to fight germs faster.

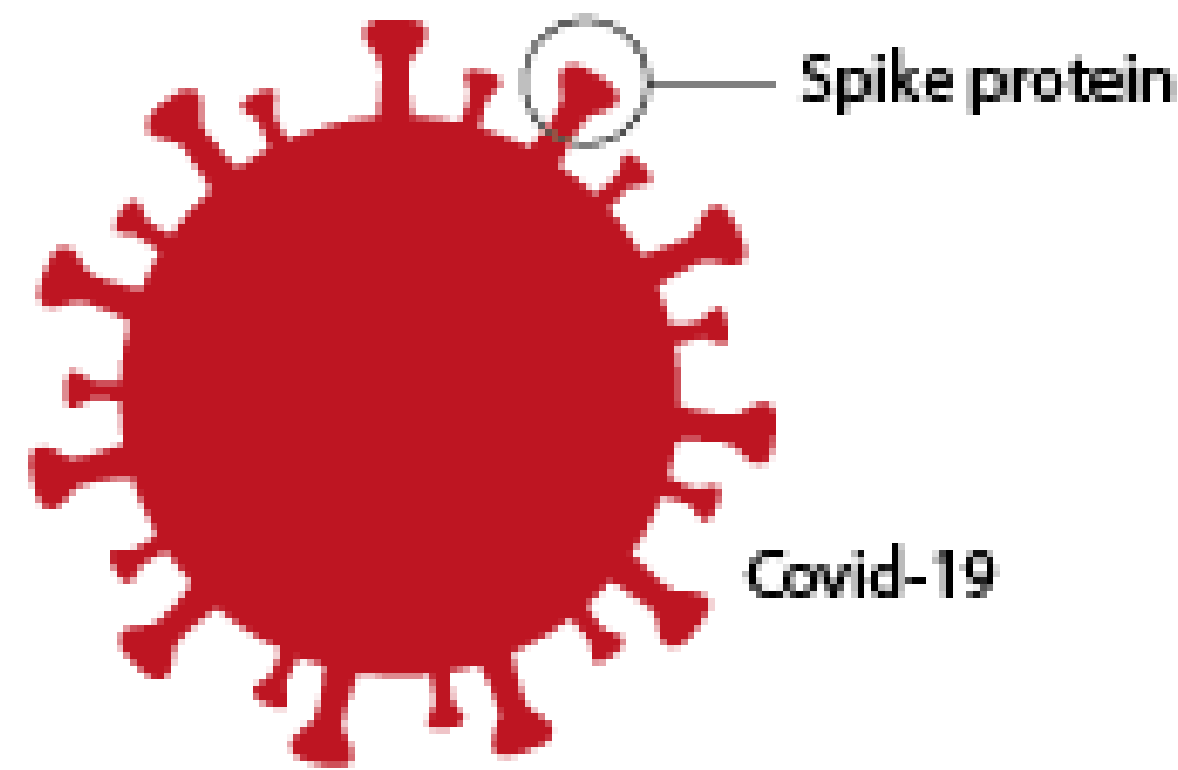


Many Different Approaches to Designing a Vaccine

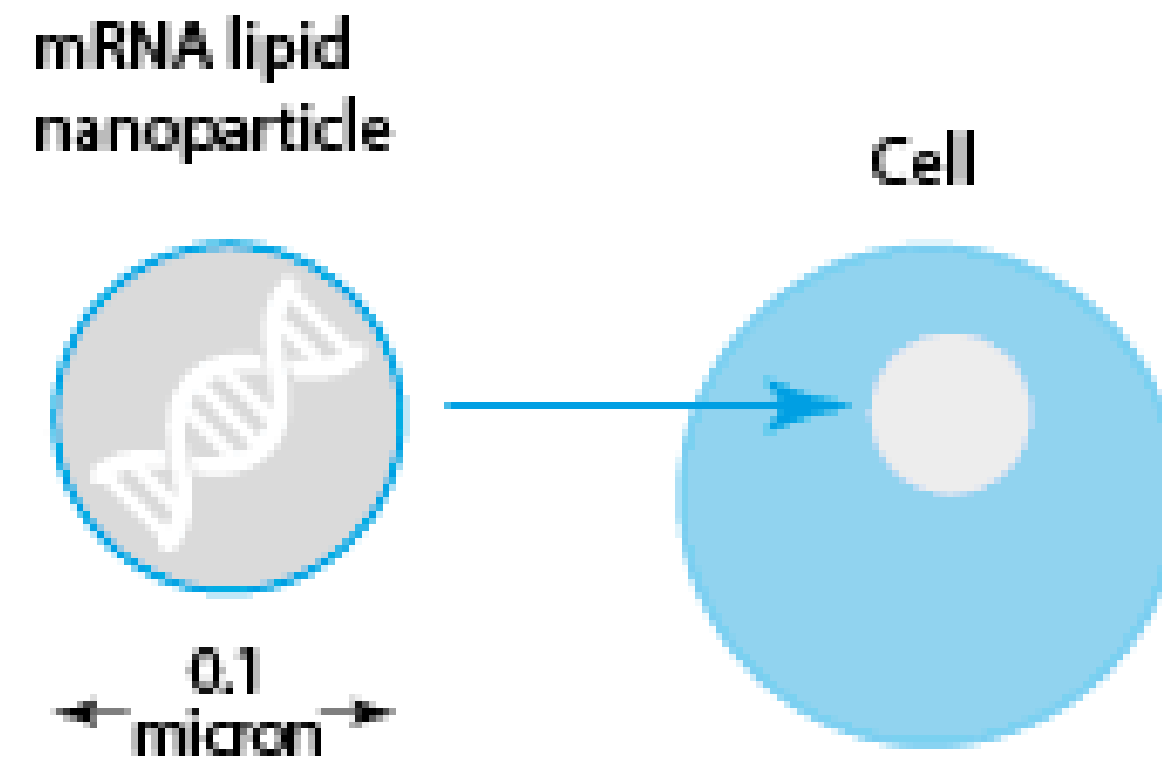
Leading vaccines

Developer	Type	Phase	Status
 Pfizer-BioNTech	mRNA	2 3	Approved in Canada, other countries. Emergency use in U.S., other countries.
 Moderna	mRNA	3	Approved in Canada. Emergency use in U.S.
 Gamaleya	Adenovirus	3	Early use in Russia. Emergency use in Belarus, Argentina.
 Oxford-AstraZeneca	Adenovirus	2 3	Emergency use in Britain, India, Argentina.
 CanSino	Adenovirus	3	Limited use in China.
 Johnson & Johnson	Adenovirus	3	
 Vector Institute	Protein	3	Early use in Russia.
 Novavax	Protein	3	
 Sinopharm	Inactivated	3	Approved in China, U.A.E., Bahrain.
 Sinovac	Inactivated	3	Limited use in China.
 Sinopharm-Wuhan	Inactivated	3	Limited use in China, U.A.E.

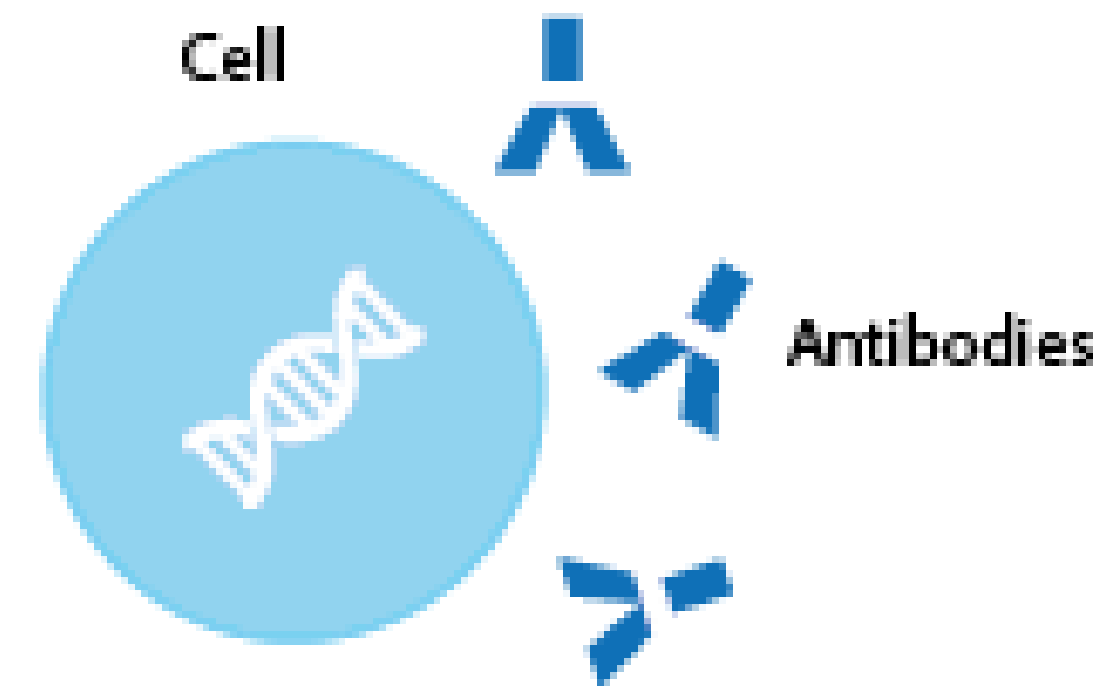
How mRNA vaccines work



Messenger RNA (mRNA) is a synthetic genetic sequence. It contains instructions that cells can use to make the Covid-19 spike protein without causing the disease.



The mRNA is packaged in fatty lipid nanoparticles. These protect the fragile genetic instructions while they are manufactured, transported and finally administered.



Once inside the cell, the mRNA instructs the cell to produce the viral protein. This appears on the surface of the cells and stimulates an immune system response.

What is in the Vaccine?

Pfizer-BioNTech COVID-19 Vaccine includes the following ingredients:

mRNA

lipids ((4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate), 2 [(polyethylene glycol)-2000]-N,N-ditetradecylacetamide, 1,2-Distearoyl-sn-glycero-3- phosphocholine, and cholesterol)

potassium chloride

monobasic potassium phosphate

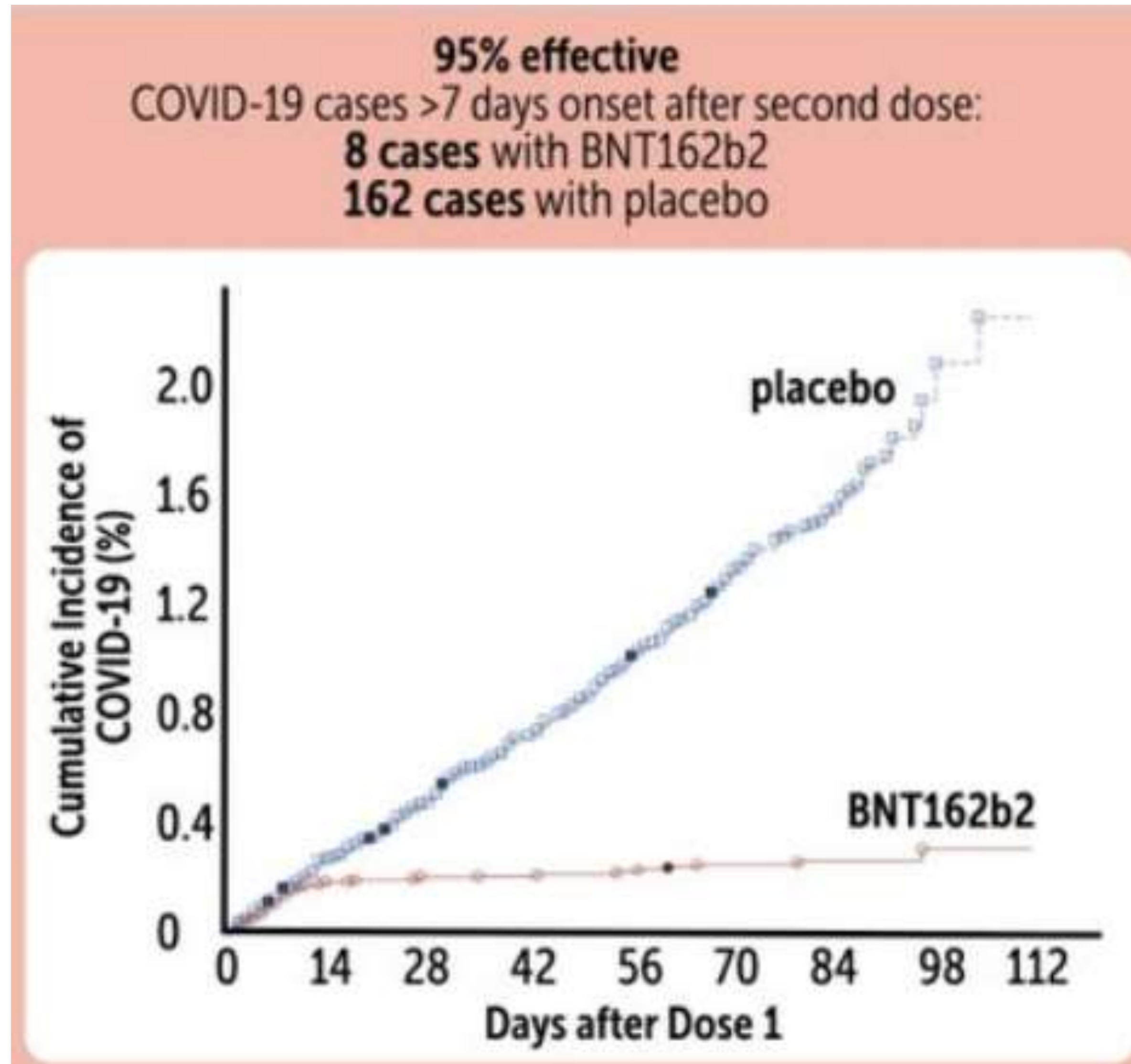
sodium chloride

dibasic sodium phosphate dihydrate

sucrose

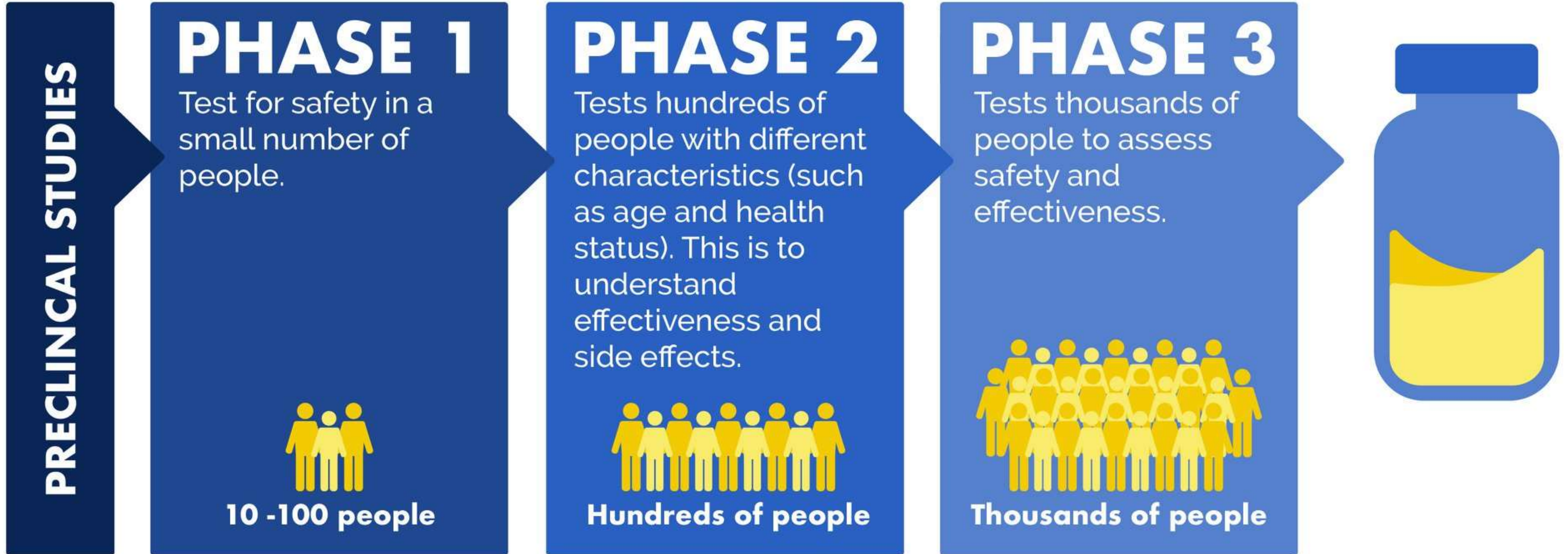
Or, in English: Salts, sugar, mRNA, in a fat envelope

Pfizer BioNTec Vaccine Efficacy



COVID-19 VACCINE TRIALS

Any vaccine we receive will have been authorized by the U.S. Food and Drug Administration and will have completed:

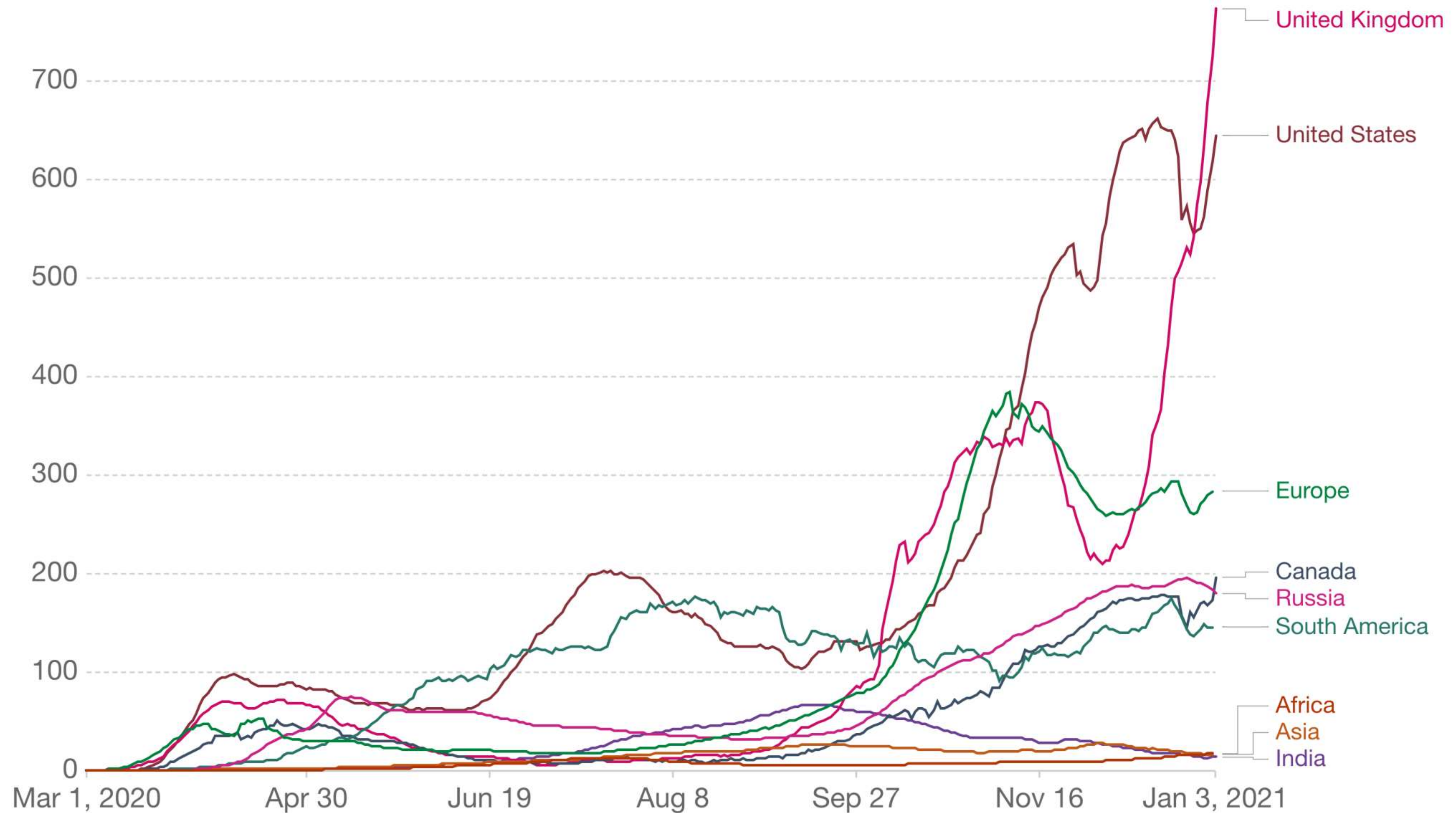


Do we really need a vaccine?



Daily new confirmed COVID-19 cases per million people

Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.



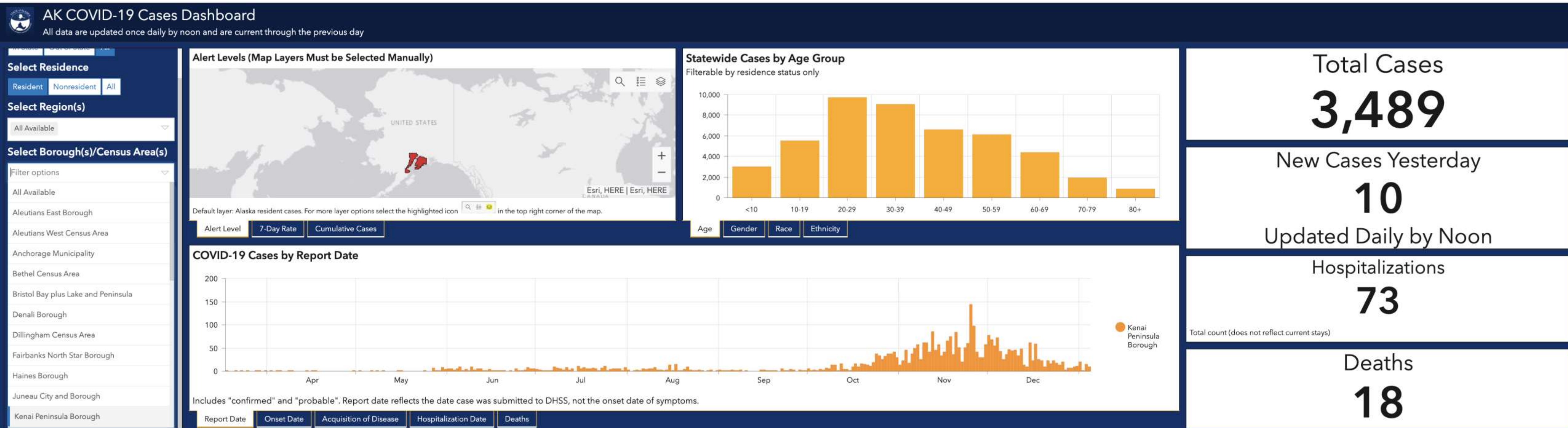
Alaska Covid - 19 Cases

January 5, 2021

Total Cases 47,006
New Cases Yesterday 203 Updated Daily by Noon
Hospitalizations 1,036 <small>Total count (does not reflect current stays)</small>
Deaths 217

Kenai Peninsula Borough Cases

1/5/2021



Putting Covid-19 Deaths in Perspective

Covid-19 has killed more than 356,000 Americans as of January 5

The 1918 influenza pandemic killed 675,000 Americans

2009 H1N1 pandemic killed 12,469 Americans

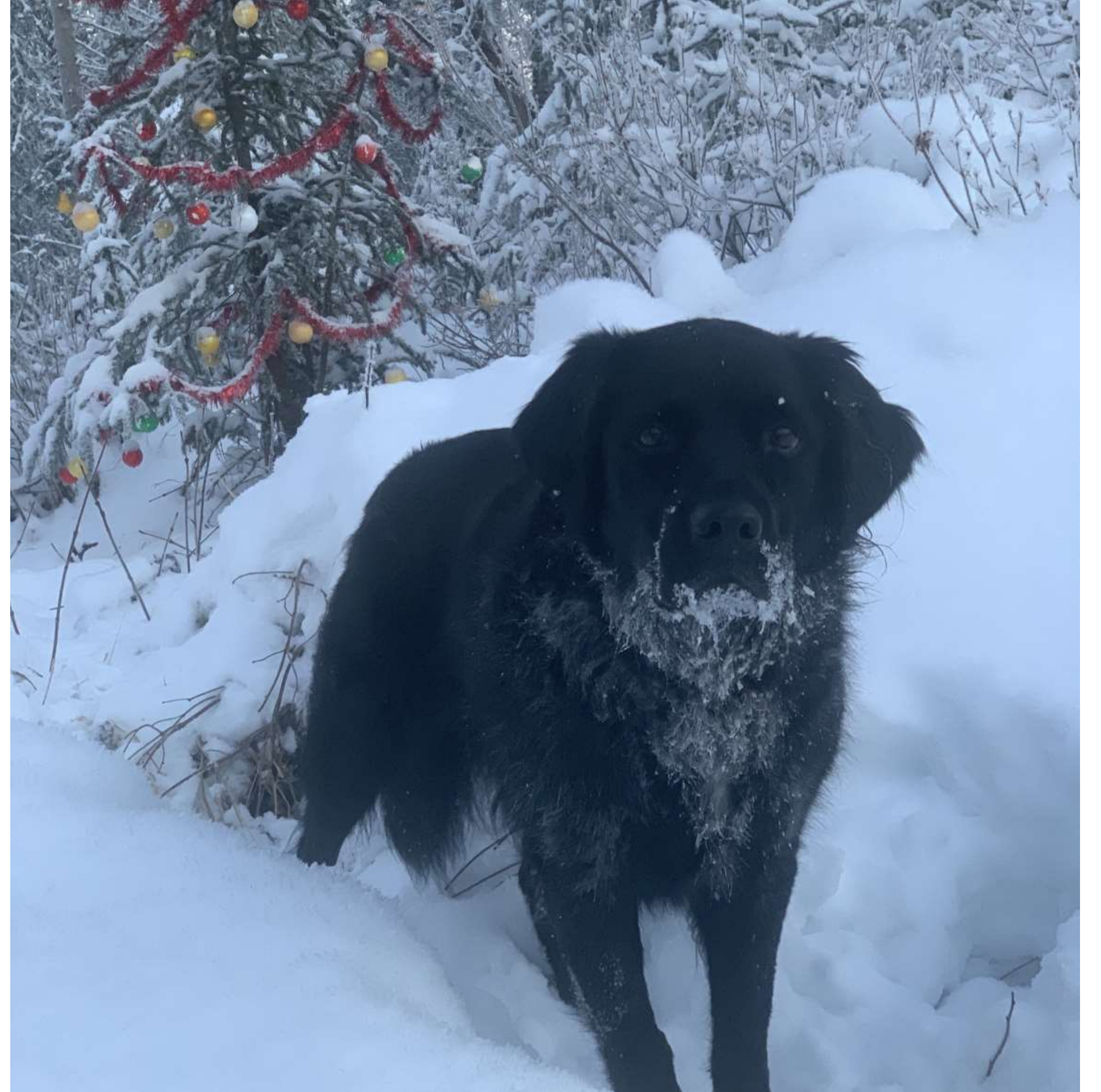
116,000 Americans died in World War I

405,000 Americans died in World War II

37,000 Americans died in the Korean War

58,000 Americans died in the Vietnam War

So, what can we do?



If we use all the tools we have, we stand the best chance of getting our families, communities, schools, and workplaces “back to normal” sooner:

Get vaccinated.



Wear a mask.



Stay 6 feet from others,
and avoid crowds.



Wash
hands often.

Breaking News

Vaccine is available soon for those over 65

Groups that will be eligible soon

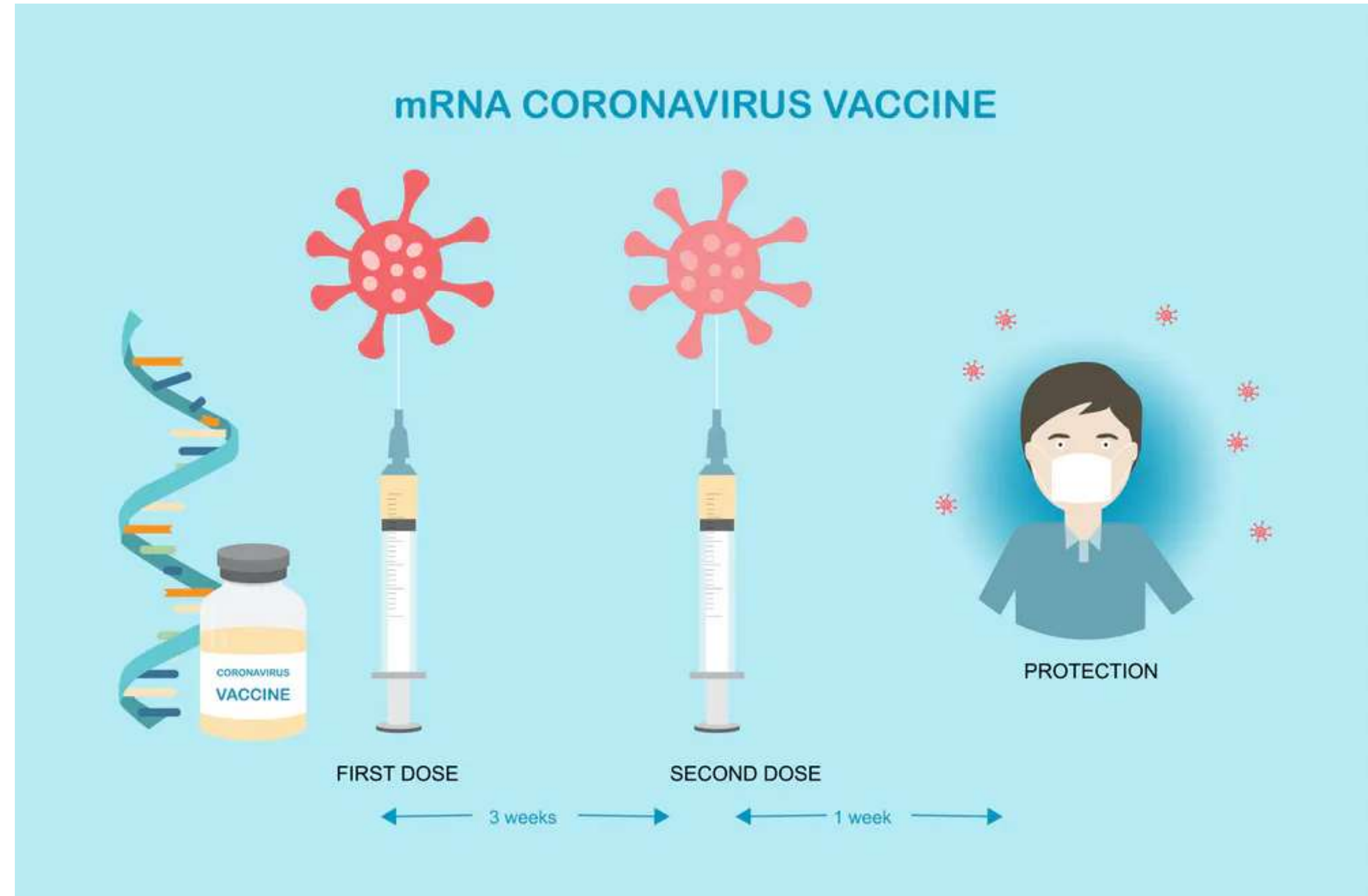
Planning Phase 1b, Tier 1 (Scheduling opens at 12pm on Jan. 6, 2021)

The following tier is further outlined in [Phase 1b recommendations \(PDF\)](#).

- › Persons aged 65 years and older

Sign Me Up!

- [Covidvax.alaska.gov](https://covidvax.alaska.gov)



Thank Yous

- KPB elected officials for the opportunity to speak tonight
- Chris Beaudoin and his volunteer film crew Jane, Mandy, Brandon, Cindy for the COVID-AROD footage
- All medical staff and frontline workers who are working so hard to keep us safe and healthy and fed and housed and educated during the pandemic
- All of you who are doing your part to keep the community safe and get us back to a healthy economy by wearing masks, maintaining distance and washing hands



COVIDVAX.ALASKA.GOV

DON'T MISS YOUR
SHOT!

Central
Peninsula
Hospital

Questions

Who should not get the vaccine?

What if I have food allergies?

What if I am pregnant or breastfeeding?

What if I have COPD/heart disease/diabetes?

What about serious side effects later?

Can I choose which vaccine I get?

Can I switch brands for the booster?

Cases have been falling. When can we stop wearing masks?

Can I stop wearing my mask as soon as I get vaccinated?

How much will it cost?

When will I get my turn?

Where will I go for my vaccine?



Rumors and Misinformation

I heard there are tracking chips in the vaccine

I heard the vaccine will give me Covid

I heard the vaccine causes infertility

I heard the vaccine is using fake needles

I heard they use fetal tissue to make vaccines

I heard 5G technology causes Covid-19

I saw on YouTube than masks activate the virus



Reliable Sources of Information

- DHSS dhss.alaska.gov
- CDC cdc.gov
- CPH hospital cpgh.org/corona
- City and Borough websites

covidvax.alaska.gov to sign up