Ask-the-Expert: COVID-19 & Vaccines

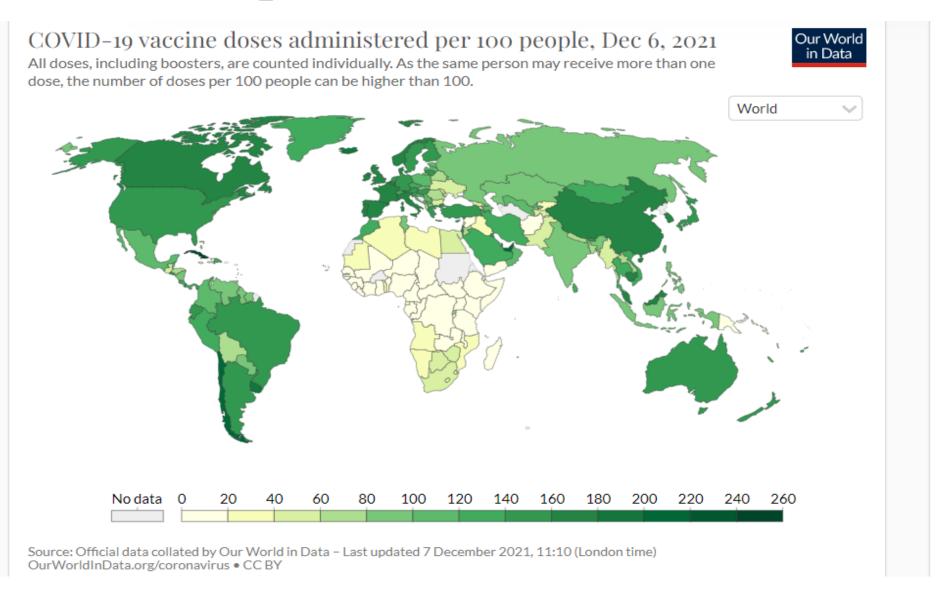
Vaccines & DM Aruna Subramanian, MD



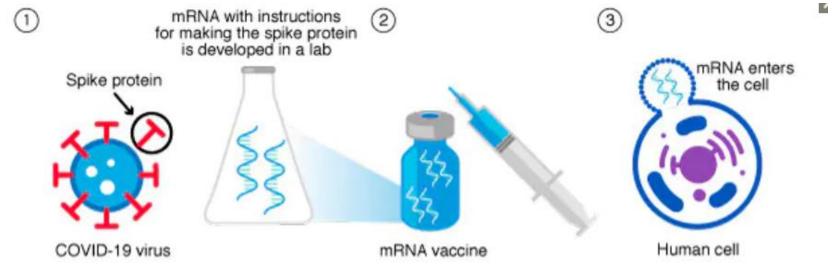
Global vaccine uptake

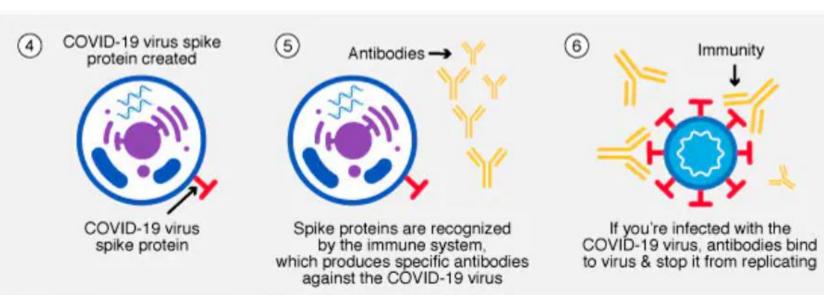
- 8.28 billion doses administered globally
- 55.3% of the world has received at least one dose





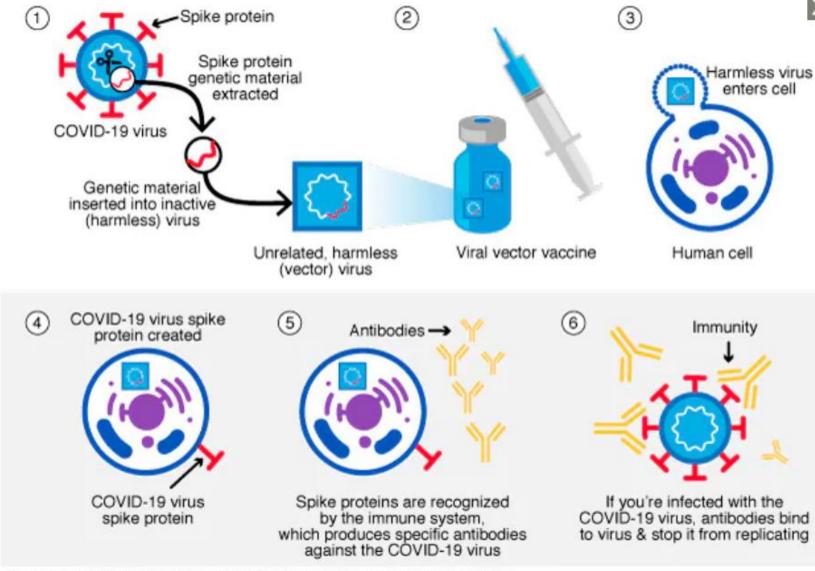
How mRNA vaccines work







How viral vector vaccines work





Vaccine Safety

- mRNA vaccines do not enter the nucleus
 - → cannot change our DNA
- Vaccine components in DM
 - →not known to interact with RNA repeats
- For people with DM
 - Risks of COVID >>> Risks of Vaccines
- Boosters recommended even after natural infection



Vaccine Schedules and Boosters

Primary series

Vaccine manufacturer	Age indication, years	Number of doses in primary series (interval between doses)	Additional primary dose in immunocompromised persons (interval since second dose)
Pfizer-BioNTech	5-11	2 (21 days)	Not recommended
Pfizer-BioNTech	≥12	2 (21 days)	1 (≥28 days)
Moderna	≥18	2 (28 days)	1 (≥28 days)
Janssen	≥18	1 (Not applicable)	Not applicable

Boosters

Vaccine manufacturer	Age indication, years	Number of doses	Interval between last primary (including additional) dose to booster dose
Pfizer-BioNTech	≥18	1	≥6 months
Moderna	≥18	1	≥6 months
Janssen	≥18	1	≥2 months



Omicron Variant and Vaccines

- Efficacy of vaccines being studied
 - Vaccines likely still give good protection against severe disease
 - Possibly less "neutralizing activity" in the lab against new variants
 - Need to correlate results in the lab with real world outcomes
 - Boosters may help with vaccine efficacy
- Even if you are vaccinated and then get exposed
 - Get tested soon
 - Call your doctor about options for outpatient treatment
 - Treatments likely still effective studies underway



Questions

For Dr. Subramanian about vaccines and DM.

