

So Much Misinformation, So Little Time!

- I was once skeptical with this vaccine as well! **EVEN as a Public Health Pediatrician!**
- With any new approved vaccine or medication, misinformation & conspiracies follow!
- Remember, misinformation travels FASTER than actual facts. I learn a new conspiracy theory every day!
- Unfortunately, antivaxxers want to scare you from getting the vaccine, so please only get your HEALTH info from **HEALTH experts**:)
- To make things simpler, I will talk about mRNA vaccines including Moderna & Pfizer's vaccine (that received FDA EUA last Friday)!
- While experts think the pros FAR outweigh the cons, it's of course your choice (with everything you take :))! But personally, I would highly recommend it!
- SWIPE for the TOP 8 MYTHS! edr.risahoshino

Myth #1: The Vaccine Causes Infertigory

- This is NOT true. Someone claimed that because the COVID virus has a very short amino acid sequence (building blocks of protein) that closely resembles that of a protein found in the placenta, that SOMEHOW the immune system will attack вотн.
- Sounds like a reasonable argument at first but this sequence is SO incredibly short that there is no plausible way that this could EVER happen biologically!
- If this myth were true, wouldn't you see more early COVID-related early pregnancy loss? So far this is not the case.
- Catching COVID on the other hand is a HIGH RISK event for a pregnant mom and can hurt mom and baby in many other ways. So getting the vaccine BEFORE you get pregnant to prevent COVID would actually be beneficial for you and your baby (ofc, please talk to your OB).

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Myth #2: But people have DIED from the COVID Vaccine...

- NOTHING can be further from the truth
- · I've reviewed the FDA & Pfizer documents (100+ pages) and have attended all the VRBPAC & ACIP meetings (all 30+ hrs of them) regarding the Pfizer vaccine and I can CONFIDENTLY say that no one died from the COVID vaccine OR ANY

APPROVED VACCINE

- 4 people died in the PLACEBO group and 2 people died in the Vaccine group from their chronic conditions like heart disease & stroke. NOT related to the vaccines.
- Unfortunately, people pass away from other causes & a vaccine trial CANNOT stop that from happening!

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Myth #3: mRNA alters your DNA

- There is absolutely **NO WAY** this can happen. Period.
- Remember Bio class? DNA lives in the NUCLEUS of your cells, which has a double layer of protection.
- mRNA CANNOT enter your nucleus--it stays in the CYTOPLASM, which surrounds the nucleus.
- · Don't listen to anyone who tries to convince you there are other ways this can happen through "other mechanisms". They may throw a lot of long names at you. They need to take Cell Bio again.

Myth #4: The Vaccine Causes Bell's Palsy

- Bell's Palsy is a **TEMPORARY** paralysis of one side of the face, which is unpleasant but treatable.
- · Since there were 4 cases of Bell's Palsy in the vaccine group vs 0 in the placebo group (out of >43K ppl), people are claiming that the vaccine is causing Bell's Palsy
- $\bullet\,$ The above frequency is EVEN LESS than expected in the general population, thus no causal relationship can be concluded (although it will be closely monitored ofc).
- · Even if the vaccine did cause it, I would personally rather get something temporary & treatable than lifethreatening COVID. Pros vs cons. edr.risahoshino

Myth #5: If I had COVID already or if I'm healthy, I don't need the vaccine!

- Not true!! Those who've had a prior COVID infection need the vaccine too!
- This is because NATURAL infection gives VARIABLE immunity, and in fact, there have been cases of **REINFECTION** among those who already got sick with COVID in the past
- It's been shown that the vaccine induces a better **IMMUNE response** than a natural infection
- A PRIOR history of COVID is NOT a **contraindication** for getting the vaccine, especially if you are a high-risk individual. ACIP has some rules on how soon you can get the vaccine (in Caption)
- "Healthy" people need to get it too! Thousands of "young & healthy" people have died from COVID. NO ONE is safe. Also, 40-45% of COVID spreaders are **ASYMPTOMATIC** carriers--the science suggests that this vaccine will greatly LESSEN the spread from these people (ofc awaiting next year's transmission data for confirmation).

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Myth #6: The COVID vaccine causes COVID & Autism

- The COVID vaccine CANNOT cause COVID.
 There is NO biological way this can happen,
 EVER. For the mRNA vaccine, it's not even the whole virus, it's ONLY the spike protein which doesn't cause disease, so there is no way it can cause disease biologically.
- In fact, no current vaccine can cause actual illness because the viral components inside the vaccine are too weak to ever do this.
 It's just IMPOSSIBLE.

Myth #7: The COVID vaccine causes "Antibody-Dependent Enhancement" & Autoimmune disease

- BIG NOPE! Antibody Dependent Enhancement is a very uncommon phenomenon where antibodies actually make the disease worse (i.e. in Dengue), however this does not happen for COVID!
- If this happened to COVID, we would have known by now as we have given convalescent plasma (COVID antibodies) to sick patients all the time.
- As for Autoimmune Diseases: Modern & current vaccines are NOT associated with autoimmune diseases in multiple epidemiological studies
- In fact, COVID & other VIRUSES has been shown to cause autoimmune disease (such as Type 1 Diabetes) and make them worse, so getting the vaccine would actually PROTECT you from autoimmune disease!

Myth #8: The UK allergy incidents mean the vaccine is UNSAFE (Part 1)

- 2 UK HCWs experienced anaphylactoid reactions (they had their own epipens), which resolved with treatment
- The UK declared that people with severe allergies (requiring carrying epipen) avoid getting the vaccine until further investigation
- Vaccines RARELY cause severe allergic reactions (1 in 1.4M doses)! But with any drug or vaccine, it's not impossible.
- Pfizer ONLY excluded ppl with allergies to PREVIOUS VACCINES or any component of this vaccine. They did NOT exclude allergic people from their study.
- As per the ACIP meeting, Pfizer's study had 6K people in each group with an allergy history--there were NO differences in allergic reactions between the two groups.
- As of 12/12 in the US, ACIP recommends that people with a history of allergy to a PREVIOUS VACCINE or INJECTABLE therapy avoid the vaccine. Those with allergy history (of other things) should be OBSERVED at a med facility for 30 min but SHOULD get the vaccine.
- Even if you were one of the very RARE cases of allergic reaction, you can get treated quickly (unlike for covid, where there is no good treatment). Just weighing pros vs cons!
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Myth #8: The UK allergy incidents mean the vaccine is UNSAFE (Part 2)

- There have been NO SEVERE ADVERSE EVENTS associated with this vaccine or with any modern & current vaccine.
- As more people get the covid vaccine, we will continue to see some rarer side effects reveal themselves, which may be unpleasant. Don't be alarmed if you hear about these in the media! Because of the sheer RARITY of these cases, the PROS continue to FAR outweigh the cons.
- No vaccine or drug (or anything in life) is completely risk-free--but experts believe the RELATIVE safety of this vaccine is OUTSTANDING. I agree with these experts.
- FYI it's COMMON to get unpleasant side effects with this
 vaccine like fever, body aches, headache, ESPECIALLY
 after the second dose, usually lasting 24-48 hrs. This is
 NORMAL and means you're making ANTIBODIES.
- Remember, COVID is MUCH more likely to cause SERIOUS COMPLICATIONS that are much, much worse than ANY side effect the vaccine will give you (which is treatable unlike COVID).
- Personally, I'm much more afraid of COVID than any vaccine!

Please SHARE & SAVE if you stand with SCIENCE!

• COVID references/resources in Link in Bio!

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