



dayton
children's

COVID-19 vaccination children 5-11 years

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agenda

- 1 vaccination background
- 2 COVID-19 cases in children

- 3 Pfizer's vaccine trials
- 4 getting your child vaccinated

vaccines

14 diseases we've controlled: *(thanks to vaccines)*

Polio

Tetanus

Flu

Hepatitis A and B

Rubella (German measles)

Hib

HPV

Meningitis

Measles

**Whooping
cough**

Pneumonia

Rotavirus

Mumps

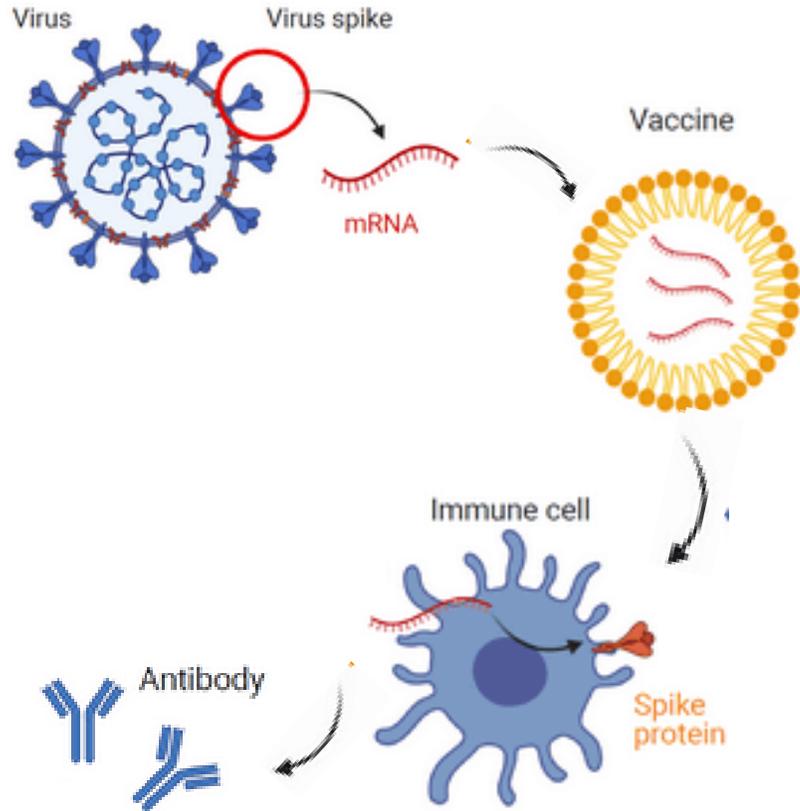
Chickenpox

Diphtheria

Let's add COVID-19 to the list.

- New things can be scary, especially when so much is unknown.
- Remember that vaccination is not new – it has helped humans fight infectious diseases for centuries.

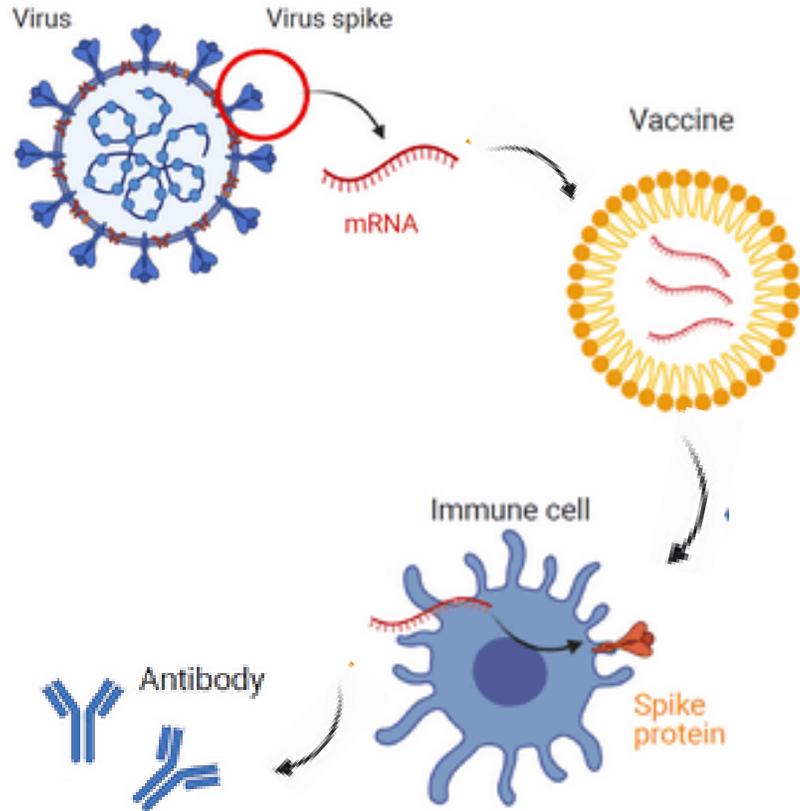
mRNA vaccines



how it works

- M stands for messenger.
- RNA is like a blueprint that tells your cells how to make proteins.
- mRNA vaccines duplicate the instructions for making the COVID-19 spike – just the spike.
- Your body’s cells make more spikes.
- The immune system makes antibodies to kill the spikes, which is sometimes why you feel a little sick after a vaccination – it’s a good immune response!
- Now your body has a system in place to kill the COVID-19 virus faster than it would if your body was experiencing it for the first time.

mRNA vaccines

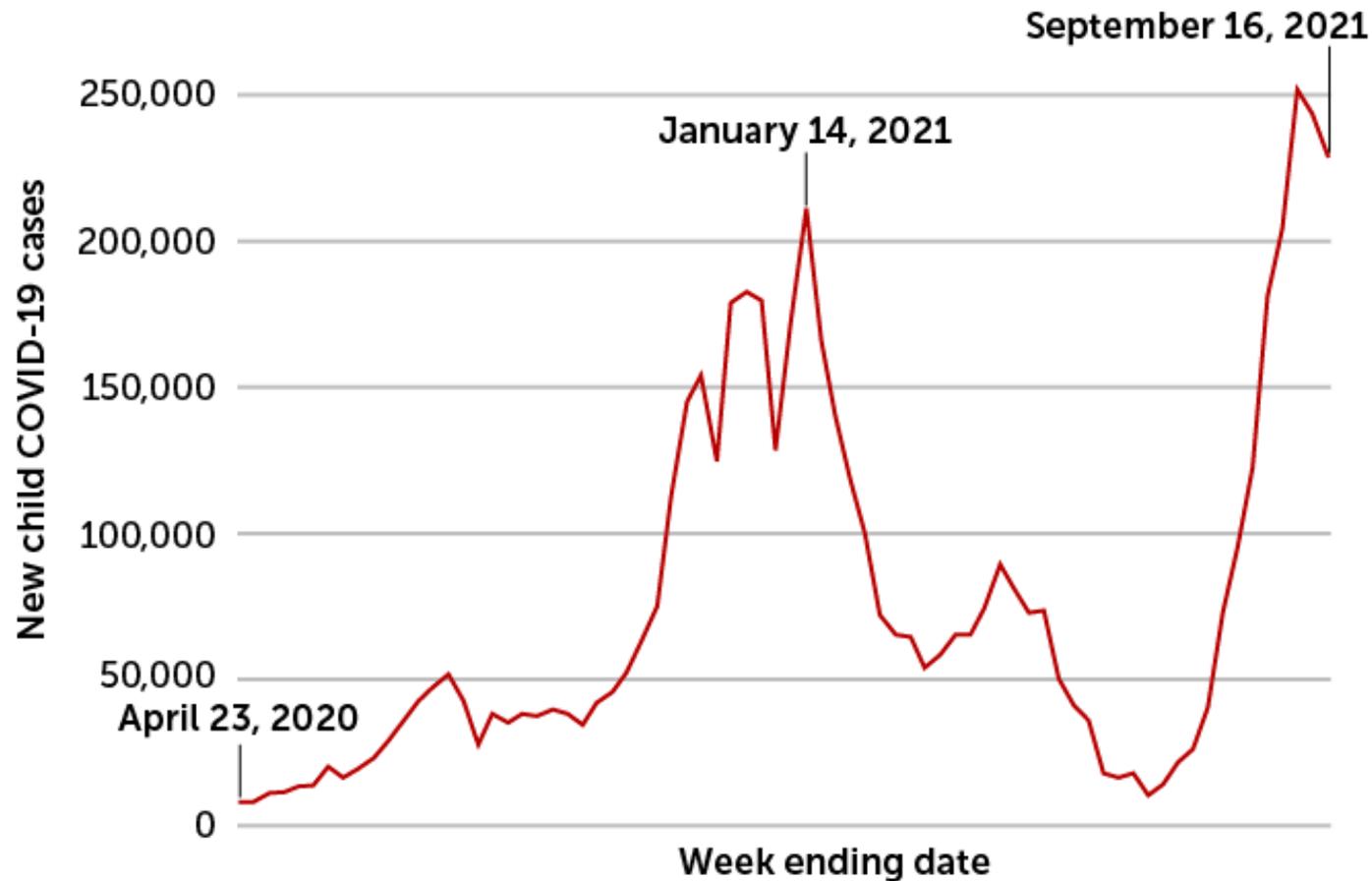


important facts

- Researchers have been working with mRNA vaccines for decades.
 - This is just the first time they have been used on the mass market.
 - Cancer research has used mRNA to trigger the immune system to target specific cancer cells.
- mRNA cannot do any damage.
 - It is destroyed shortly after entry.
 - It can't change your DNA.
 - The spike protein is not alive.
 - It cannot give you COVID-19.
- It is a safe and effective way to vaccinate.

COVID-19 cases in children

how common is COVID-19 infection in children?



United States

- Due to the more contagious delta variant, COVID-19 is now a disease that impacts children.
- In September, we saw a record surge of cases in children.
- This was higher than the surge we saw in the winter months.
- Next variants could be even more dangerous to children, as the virus looks for unprotected hosts.

how common is COVID-19 infection in children?

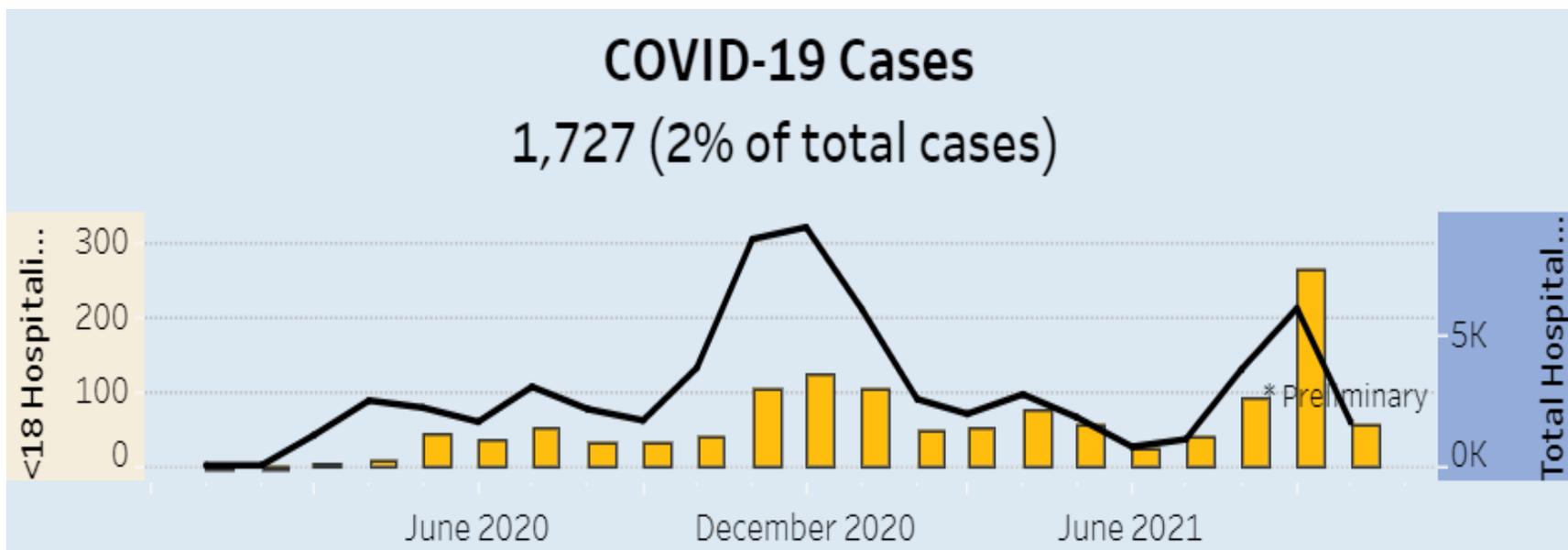
according to the American Academy of Pediatrics:



- Approximately 1/4 of all the COVID-19 cases in the country are in children. (24.8% as of October 7)
- Kids only make up about 1/5 of the population. (22.2%)

how sick do children get?

hospitalizations



- Overall 2% of children with COVID-19 in Ohio have had to be hospitalized.
- The delta variant has caused a recent surge.
- In September, more children had to be hospitalized than any month prior.
- October is trending lower.

how sick do children get?



Nearly one third of adolescents who had to be hospitalized for COVID-19 required **intensive care.**

1/3



One in twenty of those hospitalized require **intubation** (a tube placed down the child's throat connected to a machine that helps them breathe).

1/20

- Havers FP, MMWR. 2021;70:851–7.
- Murthy BP. MMWR 2021;70:1206–1213

how sick do children get?

14 children have died in Ohio from COVID-19

virus	pediatric deaths per year	time span
COVID-19	658	January 1, 2021– October 3, 2021
Influenza (flu)	110 – 192	2016-2020 (yearly vaccine reduces numbers)
Varicella (chickenpox)	50	1970 – 1994 (now controlled by vaccine)
Rotavirus (intestinal illness)	20-60	1999-2007 (now controlled by vaccine)
Rubella (German measles)	17	1966-1968 (now controlled by vaccine)

Pfizer's vaccine trials

vaccine trials in children ages 5-11



- Children have different immune systems from adults.
- Knowing this, Pfizer tested varying doses in trials of children 5 to 11.
- Kids, it turns out, have a strong immune response even to lower doses.
- This trial used a 10-microgram dose. Those 12 years and older received a 30-microgram dose.
- The trial included:
 - 2,268 participants ages 5 to 11
 - Two-dose regimen of the vaccine
 - Administered 21 days apart

Is the COVID vaccine safe?

According to Dr. Robert Frenck, vaccine researcher, Cincinnati Children's Hospital:

"Beyond the clinical trials now, we've given literally hundreds of millions of doses of vaccine to adults and teenagers throughout the country."

"If we haven't seen anything with the hundreds of millions of doses, we're not going to see anything -- so I think parents should feel comfortable that this vaccine has been given to.... hundreds of millions of people, and that it continues to show a very good safety profile."

Does the COVID vaccine work?



- YES!
- The immune response in children 5-11 given the vaccine was similar to the response in children 12-17.
- No children who have been vaccinated have been admitted to Dayton Children's Hospital.

side effects of the vaccine in children 5-11

According to Dr. Robert Frenck, vaccine researcher, Cincinnati Children's Hospital:



- Side effects in children mirrored exactly what we saw in adults, lasting a day or two.
- Most common:
 - Pain at injection site
 - Headache
 - Fatigue
- Less common
 - Fevers
 - Chills

side effects of the vaccine in children 5-11



- There have been reports of a rare heart inflammation called myocarditis with the second dose of both Moderna and Pfizer vaccines.
- Myocarditis means swelling of the muscles of the heart.
- The likelihood is a few per 100,000.
 - That's about a 99.999% chance that this **won't** happen.
- Cases have been almost all in teenage boys
 - Mild cases
 - Treated with ibuprofen
 - Children recovered

vaccine combinations



- COVID-19 vaccines can be given at the same time as other vaccines, including the flu vaccine.
- If you don't feel comfortable with that, the COVID-19 booster should take priority right now.
- When we begin to see flu in the community, the flu shot becomes more important.

should I get my child vaccinated?

reasons to get your child vaccinated



protecting your child

- Limit preventable illness including hospitalization
- Limit time out of in-person learning in school
- Limit time out of extra-curricular activities



protecting your family

- Limit spread to vulnerable family members
- Grandparents
- Chronic Illness
- Cancer survivors or those being treated



protecting your community

- Help to limit the chance of future variants
- Keep schools and businesses open and thriving by limiting spread
- Rid the community of the pandemic

Where can I get the vaccine?



- **STARTING NOVEMBER 1** (or when the FDA issues EUA approval)
 - Dayton Children's main campus
One Children's Plaza, Dayton
 - Monday – Friday, 4:30 pm to 7:30 pm
 - Saturday, 9:00 am to noon
 - Dayton Children's south campus
3333 West Tech Road, Springboro
 - Tuesday and Thursday, 4:30 pm to 7:30 pm
- Ages 7 and up can go anywhere teens and adults can go
 - gettheshot.coronavirus.ohio.gov

Why can't my child get the shot at school?



- Safety
 - 15-minute wait and watch period
 - Social distancing must be maintained
- Parental involvement and consent
 - Parents should be present with a younger child
 - That's not always possible during the school day
- Resources
 - Give as many shots as possible in a short period of time

What else should I know?



- Information sheets are on our website - [childrensdayton.org](https://www.childrensdayton.org)
 - About the mRNA vaccine
 - Why should I get my child vaccinated and FAQs
- Talk to your child's pediatrician if you have questions
- Prepare for the vaccination
 - Be honest - explain that shots can pinch or sting, but it won't hurt for long.
 - Remind your child that vaccines can keep him or her healthy.
- During the vaccination visit
 - Create distractions – ask them questions, tell a story, have them look at you and hold your hand.
 - Crying is okay – comfort your child and support them.
 - Take deep breaths with your child to help “blow out” the fear or sting.
- After the vaccination
 - Reward your child for their bravery with hugs and smiles.

questions?