CENTRALINA
Area Agency on Aging

Webinar Series

Investing in Immunizations for At-Risk Older Adults and Other Vulnerable Populations

August 26, 2021

ZOOM Webinar Features:

- You are automatically muted
- You cannot see other participants
- You will see Speakers and Hosts
- Please ask questions via the chat box
- Session is being recorded and will be available after today
- Resources will be posted on www.centralinaaging.org

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Southminster's Licensed Home Care Provider

Today's Speakers:

Meg Sullivan, MD, MPH
Medical Director
Mecklenburg County Public Health

Jeanne Williams, BSN
Immunization Health Manager
Mecklenburg County Public Health

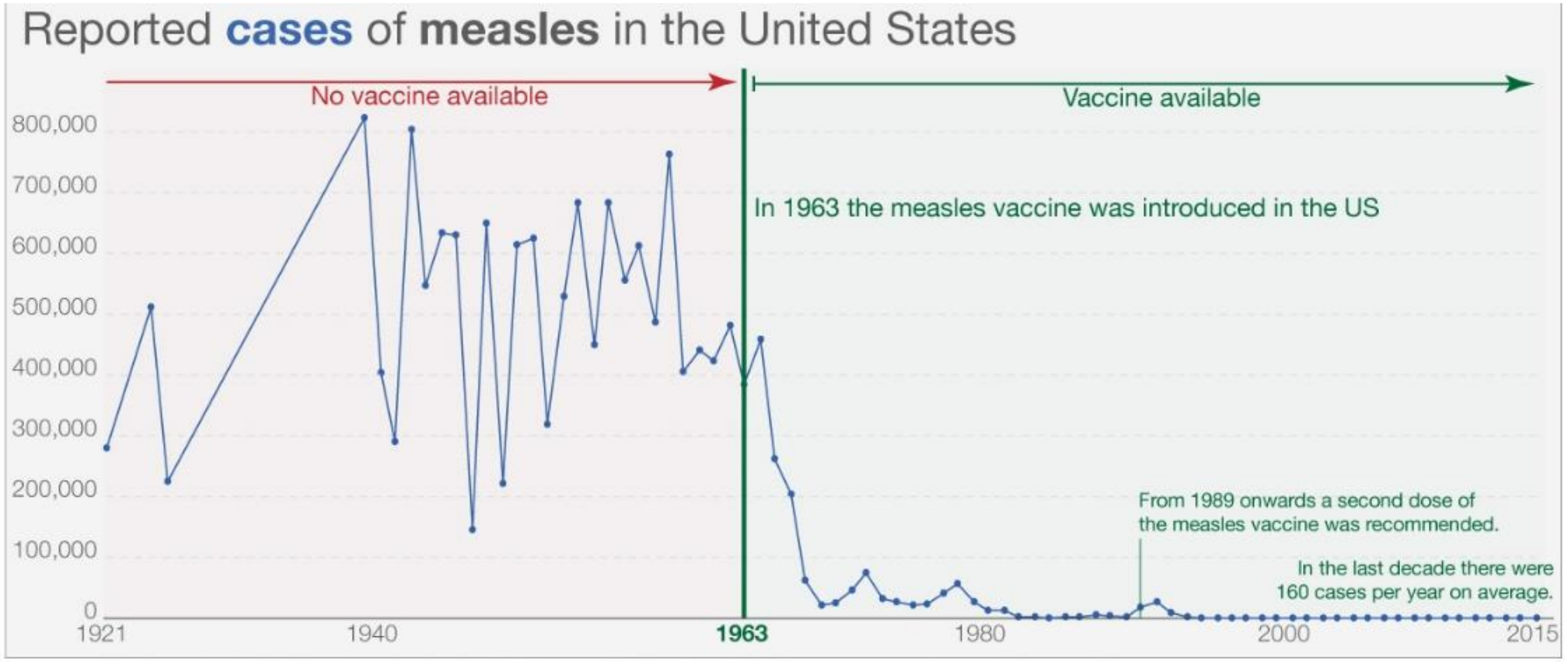
Melinda Forthofer, Phd
Professor, Public Health Sciences

Agenda

- Recommended vaccines for older adults
- Common vaccination myths
- Update on COVID-19 Vaccine recommendations and guidance
- Discussion about how immunizations protect our community and society


National Immunization
Awareness Month
#ivax2protect

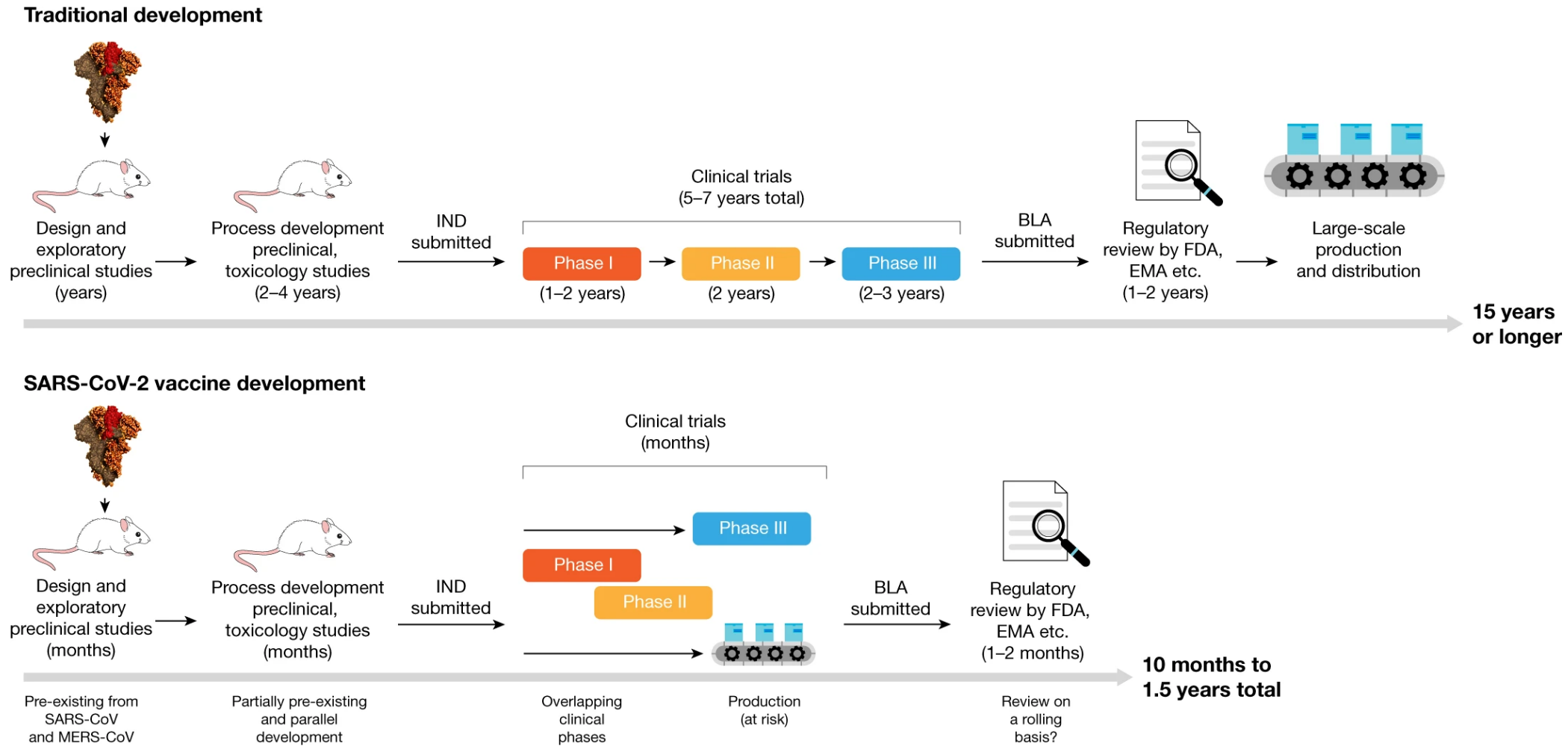
Vaccines Work! Look at Measles



Data sources: Smallpox: Our World in Data based on Guy (1882) and several publications of the Registrar General between 1886 and 1903
Polio: Our World in Data based on US Public Health Service (1910-1951) and US Center for Disease Control (1960-2010)
Measles: Our World in Data based on several publications from the Public Health Reports, the US Public Health Service's Morbidity and Mortality Weekly Report Annual Supplements, and the US Census's Annual Statistical Abstracts

OurWorldinData.org – Research and data to make progress against the world's largest problems.

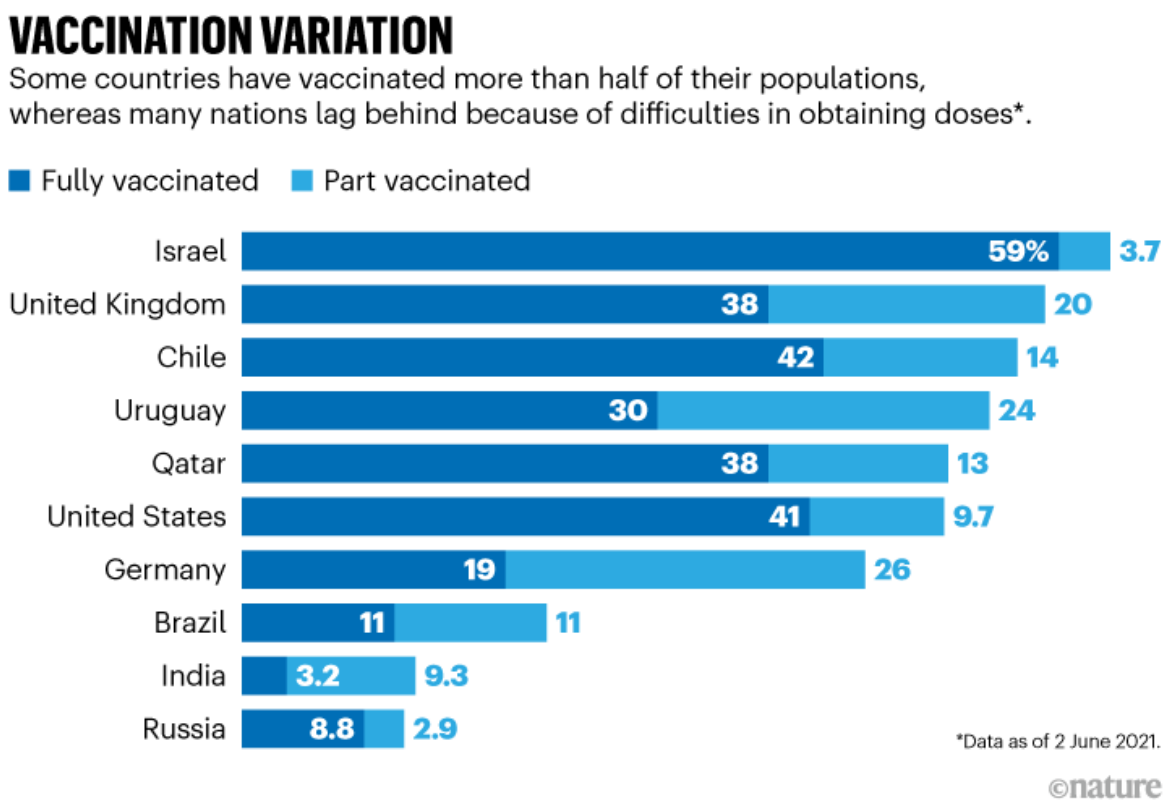
COVID-19 Vaccine Development

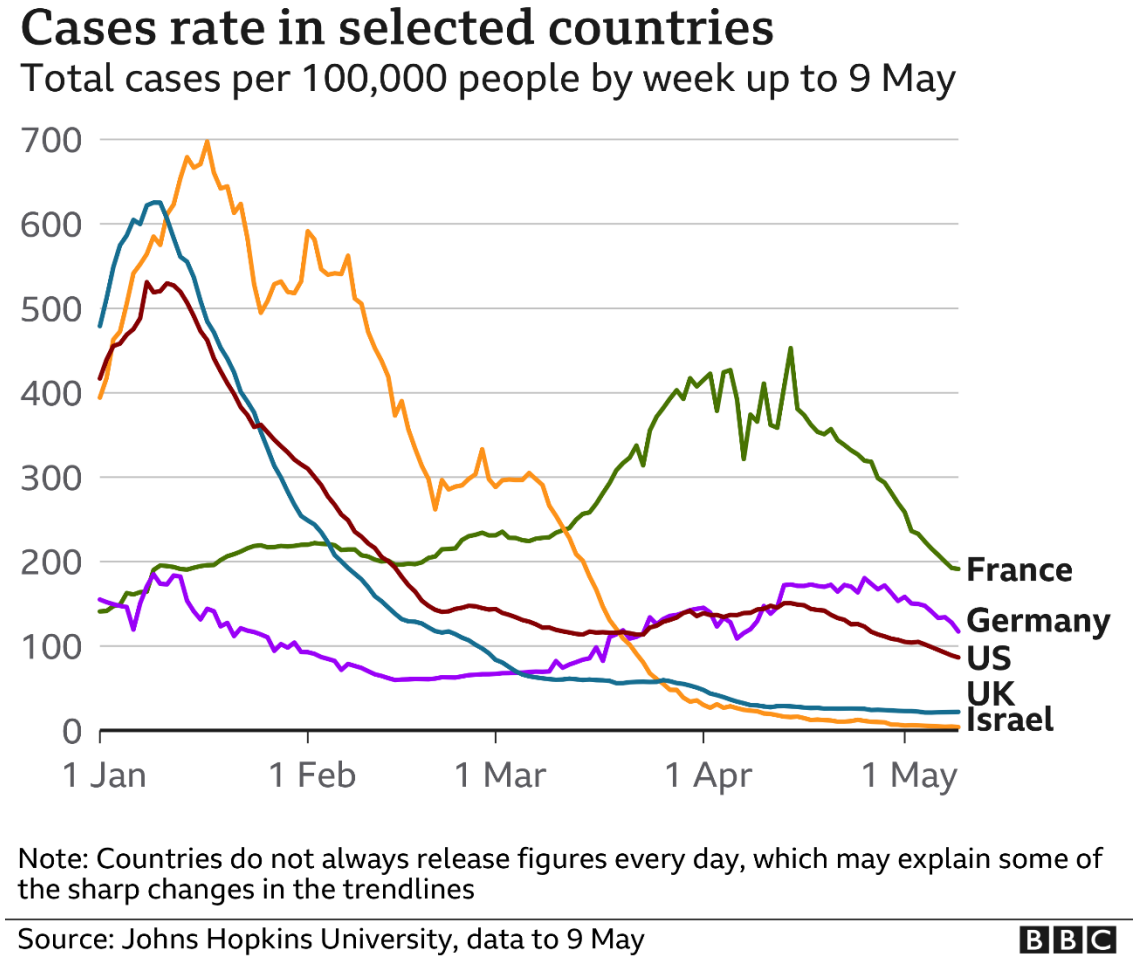


Krammer, F. SARS-CoV-2 vaccines in development. *Nature* **586,** 516–527 (2020). https://doi.org/10.1038/s41586-020-2798-3

	Pfizer Vaccine – EUA 12/11/20 Full FDA Approval 16+ 8/23/21	Moderna Vaccine – EUA 12/18/20	Johnson and Johnson Vaccine – EUA 02/26/21
Vaccine Mechanism of Action (TYPE)	mRNA mechanism	mRNA mechanism	Vector mechanism
Efficacy	95% effective against COVID-19	94.5% effective against COVID-19	66.9% effective against COVID-19
Efficacy Against Severe COVID-19 Illness and Hospitalizations	75.0% effective against severe COVID-19 illness 7 days or more after second dose 100% effective against hospitalizations from COVID-19 7 days or more after second dose	100% effective against severe COVID-19 illness starting 14 days after second dose 100% effective against hospitalizations from COVID-19 starting 14 days after second dose	85.4% effective against severe COVID-19 illness with an onset of at least 28 days after vaccination 100% effective against hospitalizations from COVID-19 with an onset at least 28 days after vaccination
# Participants	43,000 Participants in Phase-3 trial	30,000 Participants in Phase-3 trial	40,000
Level of Diversity	42% of participants had diverse backgrounds	37% Diverse backgrounds	37.9% Diverse backgrounds
Storage Temperature and shelf life	Ultra-cold storage (-75 degrees Celsius, -103 degrees Fahrenheit). Lasts up to 2 weeks in regular freezer and up to 30 days in refrigeration.	Storage temperature at -20 degrees C (-4 degrees F). Lasts up to 30 days in refrigeration.	Regular refrigeration (36-46 degrees F). Lasts up to 3 months in refrigeration.
Dosing Schedule	2-Dose schedule: 21 days apart	2-dose schedule: 28 days apart	Single dose

Real World Effectiveness





Real Time Reporting of Safety

VAERS is the nation's early warning system for vaccine safety

CDC + FDA

VAERS

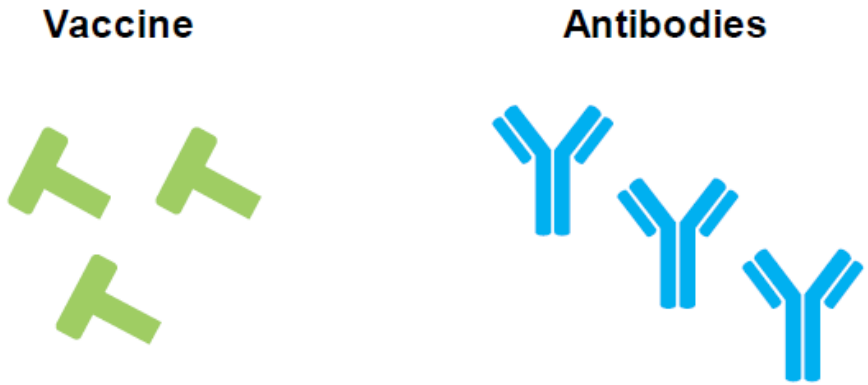
Vaccine Adverse Event Reporting System

http://vaers.hhs.gov

You cannot get COVID-19 from the vaccine.

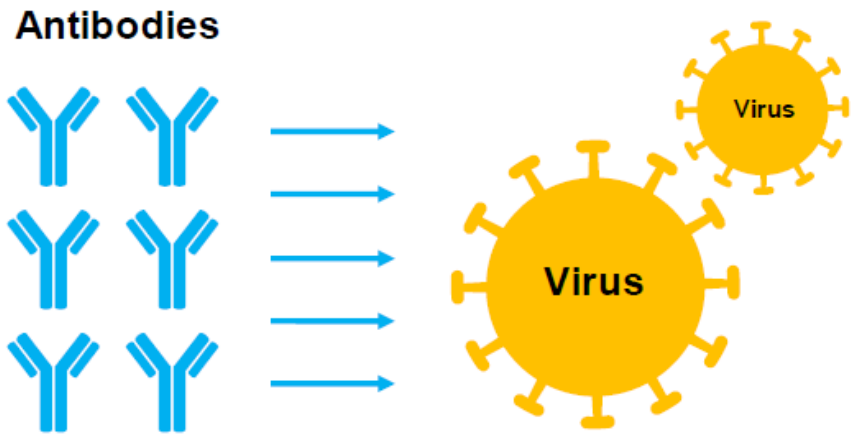
Vaccines safely increase your body's natural ability to fight the virus before the virus attacks you. That's how you win, and the virus loses. Here is how the Pfizer-BioNTech, Moderna, and Johnson & Johnson vaccines work:

Vaccines imitate COVID without giving it to you.



The Pfizer-BioNTech, Moderna, and Johnson & Johnson vaccines give your body instructions (mRNA or DNA) to make a protein that safely teaches your body how to make an antibody to fight COVID-19.

You can fight off the real virus if it tries to attack you.



After getting vaccinated, you develop the ability to fight off the real virus because your body is strong enough and knows how to win.

UPDATE ON VACCINE AND DELTA VARIANT

- **VACCINATION continues to be the BEST protection against this strain and others**

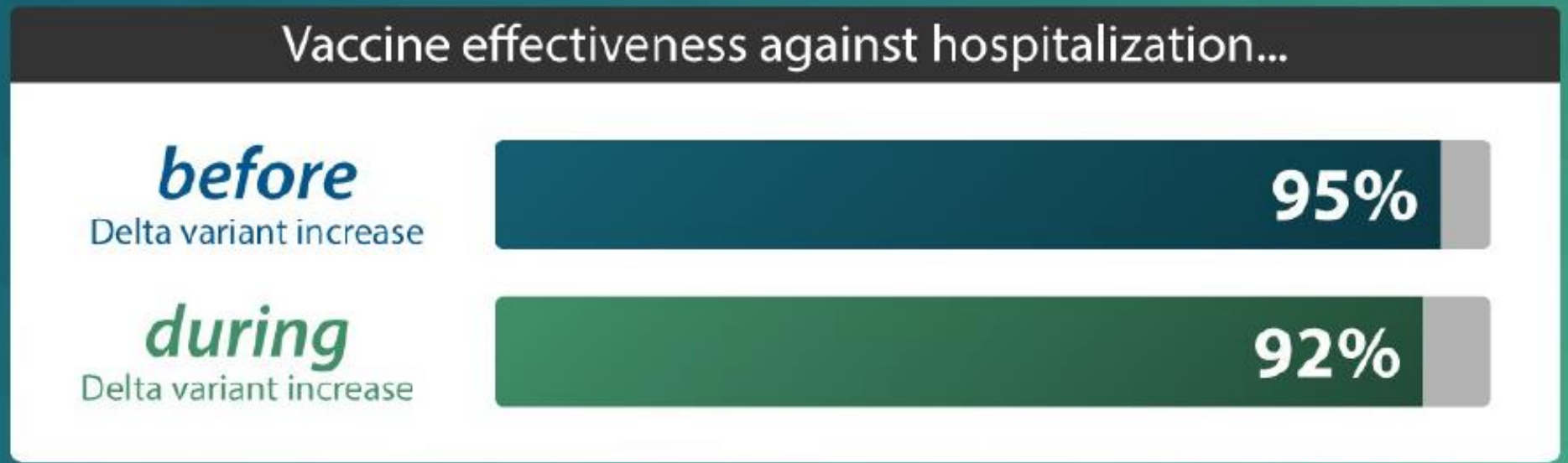
- **The COVID-19 vaccines authorized in the United States continue to be remarkably effective in reducing risk of severe disease, hospitalization, and death, even against the widely circulating Delta variant.**
  - Among fully vaccinated people in New York state from May 3–July 25, 2021, COVID-19 vaccines were more than 90% effective against hospitalizations.

- **Unvaccinated individuals are at highest risk**
  - It is critical that unvaccinated and partially vaccinated people get their primary series of vaccines to further reduce the risk of COVID-19 and its more severe outcomes.
  - Nearly all the cases of severe disease, hospitalization, and death continue to occur among those not yet vaccinated at all.

- **Rapidly evolving situation and information may change**

https://www.hhs.gov/about/news/2021/08/18/joint-statement-hhs-public-health-and-medical-experts-covid-19-booster-shots.html

COVID-19 vaccines continue to show strong protection against hospitalization



*New York State, May–July 2021

Get vaccinated.
Protect yourself against COVID-19 hospitalization.

bit.ly/link

MMWR

HOW LONG WILL VACCINE LAST AND WILL WE NEED BOOSTERS?

- CONTINUE to see stable and highly effective protection against hospitalizations and severe outcomes for people who are fully vaccinated BUT seeing a decrease in vaccine effectiveness against infection.

- CDC now recommends **a third dose** of the same mRNA vaccine for patients with **moderate to severe immunocompromising conditions** who previously received 2 doses of an mRNA vaccine**.**

- U.S. Department of Health and Human Services developing a plan to begin offering these booster shots this fall
  - Subject to FDA conducting an independent evaluation and determination of the safety and effectiveness of a third dose of the Pfizer and Moderna mRNA vaccines AND

- Only after a thorough review of the evidence will CDC's independent advisory committee make recommendations on the use of boosters for the public.

https://www.hhs.gov/about/news/2021/08/18/joint-statement-hhs-public-health-and-medical-experts-covid-19-booster-shots.html

Updated August 18, 2021

Mecklenburg County Public Health encourages all eligible residents ages 12 and older to get a free COVID-19 vaccination.

Third Doses: Mecklenburg County Public Health is providing third doses of mRNA vaccine (Pfizer-BioNTech or Moderna) to people with moderate to severe immunocompromising conditions who previously received two doses, per the CDC's recommendations. The person must verbally attest to their immunocompromising condition.

Summer Cash Cards: Through August, anyone 18+ who receives their first vaccine dose will receive a *$100 Summer Cash Card* at the clinics below. Anyone who drives someone to get their first dose will receive a $25 card. You can also check the N.C. Vaccine Finder to find a vaccination site near you and learn more about the $100 incentives.

Schedule by Phone
980-314-9400
Option 3 for English
Option 8 for Spanish

North Carolina Vaccine
Finder & Incentives

Home-Based Vaccination
Request Form

Request a Vaccine Clinic
For Your Organization or Community

- **Northwest Health Department**, 2845 Beatties Ford Road
  - Mon, Tue, Thur, Fri: 8:15-11:30am, 1:00-4:30pm
  - Wed: 10:15am-1:30pm, 3:00-6:30pm
  - Offering Pfizer or J&J
- **Southeast Health Department**, 249 Billingsley Road
  - Mon, Tue, Thur, Fri: 8:15-11:30am, 1:00-4:30pm
  - Wed: 10:15am-1:30pm, 3:00-6:30pm
  - Offering Pfizer or J&J
- **Valerie C. Woodard Center-Community Resource Center**, 3205 Freedom Drive
  - Mon–Fri: 8:15-11:30am, 1:00-4:30pm
  - Offering Pfizer or J&J

- **StarMed Healthcare-Tuckaseegee**, 4001 Tuckaseegee Rd
- **StarMed Healthcare-Eastland**, 5344 Central Ave
- **StarMed Healthcare-Bojangles Coliseum**, 2700 East Independence Blvd
  - Click here for StarMed's walk-in hours or schedule online.

Community Clinics & Events	
August 18	Leafcrest Apartments, 6513 Leafcrest Lane, 5pm-7pm Albemarle Road Recreation Center, 5027 Idlewild Road, 6pm-8pm *(cash card unavailable)*
August 20	Moss Counseling Service, 4917 Albemarle Road, Suite 106, 10am-2pm
August 21	Walter G. Byers School, 1415 Hamilton Street, 12pm-4pm
August 22	West Charlotte High School, 2219 Senior Drive, 3pm-5pm
August 28	Howies Acres Neighborhood Park, 4200 Redwood Avenue, 11am-5pm *(cash card unavailable)*

- **Doses to Doors:** Be on the lookout for our mobile vaccination team. Public Health is offering COVID-19 vaccinations on demand in neighborhoods across Mecklenburg County. Call our hotline **980-314-9400** for more information and spread the word by sharing this flyer throughout your community.
  English | Spanish

Don’t Wait, Vaccinate

Immunization is one of the safest and most effective ways to protect your health.

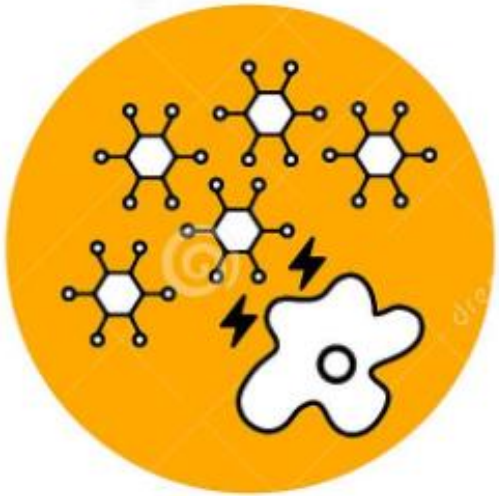
All adults need vaccines to help protect themselves and others.

The vaccines recommended for you are based on your age, health condition, job, lifestyle, or travel habits.

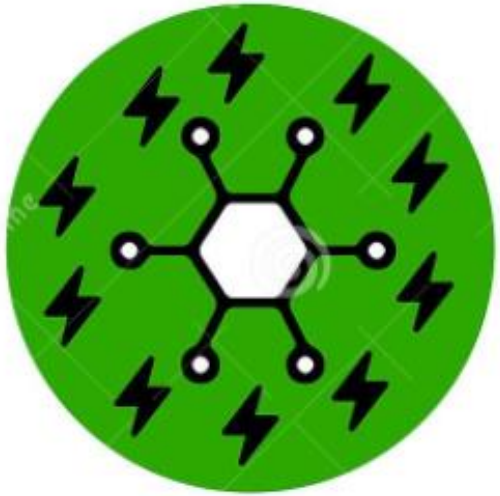
Talk to your healthcare professional about which vaccines are right for you!

How do vaccines work?

Vaccines introduce a safe amount of harmless viral antigens to the body.



This helps the immune system to recognize them as hostile and develop antibodies for future infections.



If you encounter the disease again, your body already has the antibodies, so you don't get sick. You are immune.

INFLUENZA

- **Everyone 6 months and older, every year**
- Stop the spread of germs
- Avoid close contact
- Stay home, when you’re sick
- Cover your mouth and nose
- Clean your hands
- Avoid touching your eyes, nose or mouth

Flu Vaccine for those 65 years and older

Fluzone High-Dose

The higher dose of antigen in the vaccine is intended to give older people a better immune response, and therefore, better protection against flu.

Adjuvanted Flu

An adjuvant is an ingredient of a vaccine that helps promote a better immune response.

Tetanus, Diphtheria, Pertussis

- **Tdap vaccine** one time, no matter when you got your last tetanus (Td) vaccine.

- **Td**ap or Td **booster** every 10 years.

Adult Vaccine Assessment Tool

https://www2.cdc.gov/nip/adultimmsched/

SHINGLES (Zoster)

- **WHO?** Adults 50 and older, including adults who have had shingles or got the previous shingles vaccine (Zostavax)
- **HOW OFTEN?** Two doses, 2 to 6 months apart

PNEUMOCOCCAL

- **WHO?** All adults 65 years or older should get one
- dose of PPSV23 (polysaccharide vaccine). Adults
- 65 years or older who have never received a dose
- can discuss and decide, with their vaccine provider,
- to get one dose of PCV13 (conjugate vaccine).

- **HOW OFTEN?** If someone wants both vaccines, get PCV13 first followed by PPSV23.

Investing in Immunizations for At-Risk Older Adults and Other Vulnerable Populations

Melinda Forthofer, PhD

Professor, Public Health Sciences
Interim Associate Dean for Academic Affairs
College of Health and Human Services, UNC Charlotte

UNIVERSITY OF NORTH CAROLINA CHARLOTTE

1918 Spanish Flu Pandemic Takeaways

- The Spanish Flu caused 50 million deaths worldwide in 3 waves, whereas COVID-19 deaths recently passed 4 million.
- While scientists understood that the flu was spread through respiratory droplets, they did not yet understand that the pathogen was a virus. Thus, no testing was possible.
- Spanish flu was equally deadly across age subgroups (regardless of health status).
- There was no vaccine or treatment for Spanish Flu.
- The most effective immediate response in the Spanish Flu pandemic was social distancing.

What is Herd Immunity and Is It Possible?

- Herd immunity refers to a level of immunity in the population.
- Estimates of level of immunity required to eradicate virus range from 70% to 85% or more.
- Herd immunity = natural immunity (previously infected and recovered individuals) + vaccine-based immunity.

Threats to Achieving Herd Immunity

- Uneven vaccine rollout
- New variants
- Need for transmission-blocking vaccines
- Immunity is not permanent

Benefits of Widespread Vaccination

- Reduced community transmission
  - Protection for essential workers
  - Protection for unvaccinated subgroups
  - Protection for subgroups disproportionately impacted (medically, economically, socially) by pandemic
- Reduced demand on healthcare system from severe cases
- Reduced healthcare costs due to burden of care
- Fewer cases (of any severity) mean less opportunity for vaccine-resistant mutations

Benefits of Continued Behavioral Controls (Masking and Social Distancing)

- Reduced community transmission
  - Protection for essential workers
  - Protection for unvaccinated subgroups
  - Protection for subgroups disproportionately impacted (medically, economically, socially) by pandemic
- Reduced demand on healthcare system from severe cases
- Reduced healthcare costs due to burden of care
- Fewer cases (of any severity) mean less opportunity for vaccine-resistant mutations

QUESTIONS?

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Upcoming Events

Online Falls Prevention EXPO: September 14th from 10-11am

Cyber Crimes in Covid Times: September 21st from 10-11am

Annual Aging Conference: October 1st

www.centralinaaging.org


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for
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