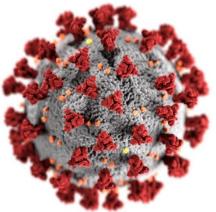
Building Vaccine Confidence in Health Systems and Clinics

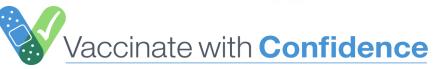
Tips for Immunization Coordinators

Developed by: CDC COVID-19 Response Vaccine Task Force

December 2020







cdc.gov/coronavirus

Presentation Overview

- COVID-19 vaccines
- mRNA technology
- Vaccine safety monitoring
- Elements of vaccine confidence
- Strategies for building vaccine confidence in your facility or system





COVID-19 Vaccines and Vaccine Safety Monitoring

Healthcare personnel: A priority for COVID-19 vaccination

- On the front lines and at risk of exposure.
- Can potentially transmit the virus that causes COVID-19 to patients, their families, and their communities.
- Can positively influence vaccination decisions of peers, patients, friends, and family.
- Healthcare personnel = paid and unpaid persons serving in healthcare settings who have the potential for direct or indirect exposure to patients or infectious materials – not exclusive to medical personnel, includes administration, support staff, etc.



COVID-19 vaccines under development

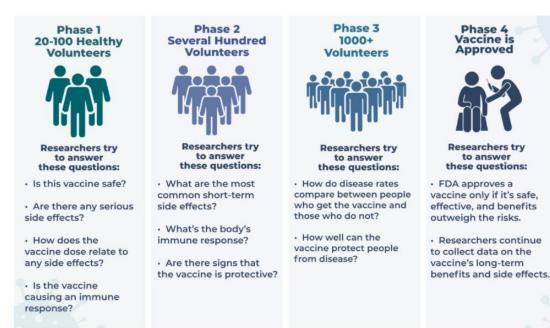
- The federal government is funding and coordinating the development of multiple vaccine candidates, several of which are in large-scale (Phase 3) trials.
- COVID-19 vaccines are being held to the same safety standards as all other vaccines.





Phases of clinical trials

There are four phases of clinical trials





Source: https://covid19community.nih.gov/resources/understanding-clinical-trials

COVID-19 vaccines expected to receive FDA Emergency Use Authorizations

- Two vaccines are expected to receive FDA Emergency Use Authorizations (EUAs) :
 - Pfizer/BioNTech (BNT162b2) 95% effective (manufacturer data)
 - **Moderna (mRNA-1273)** 94.5% effective (manufacturer data)
- Both are mRNA vaccines with a 2-dose schedule.
- Duration of protection is not yet known.
- Both vaccines were tested in diverse adult populations, including older adults and communities of color.
- For the latest information about authorized vaccines, visit <u>www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-</u> <u>covid-19/covid-19-vaccines</u>.



Sources: https://www.pfizer.com/news/press-release/press-release-detail/pfizer-and-biontech-conclude-phase-3-study-covid-19-vaccine https://investors.modernatx.com/news-releases/news-release-details/modernas-covid-19-vaccine-candidate-meets-its-primary-efficacy

COVID-19 vaccine trials by the numbers As of November 30, 2020

Pfizer/BioNTech

- 43,931 enrolled
- 150 clinical sites
 - 39 U.S. states
- Racial/ethnic distribution
 - 13% Hispanic
 - 10% African American
 - **6% -** Asian
 - 1% Native American
- **45%** ages 56-85

Moderna

- **30,000** enrolled
- 89 clinical sites
 - 32 U.S. states
- Racial/ethnic distribution
 - 63% White
 - 20% Hispanic
 - 10% African American/Black
 - **4%** Asian
 - 3% All others
- 64% ages 45 and older
 - 39% ages 45-64
 - 25% ages 65+



What are messenger RNA (mRNA) vaccines?

- Carry genetic material that teaches our cells how to make a harmless piece of "spike protein," which is found on the surface of the SARS-CoV-2 virus.
 - Genetic material from the vaccine is destroyed by our cells once copies of the spike protein are made and it is no longer needed.
- Cells display this piece of spike protein on their surface, and an immune response is triggered inside our bodies. This produces antibodies to protect us from getting infected if the SARS-CoV-2 virus enters our bodies.
- Do not affect our DNA; mRNA does not enter the cell nucleus.
- Cannot give someone COVID-19.
- Use technology that is new but not unknown. mRNA vaccines have been studied for influenza, Zika, rabies, and cytomegalovirus (CMV).



Sources: College of Physicians of Philadelphia. What is an mRNA vaccine? <u>https://historyofvaccines.blog/2020/07/29/what-is-an-mrna-vaccine/</u> JAMA. COVID-19 and mRNA Vaccines—First Large Test for a New Approach. <u>https://jamanetwork.com/journals/jama/fullarticle/2770485</u>

About these COVID-19 mRNA vaccines

- These mRNA vaccines are expected to produce side effects after vaccination, especially after the 2nd dose.
 - Side effects may include:
 - Fever
 - Headache
 - Muscle aches



- No significant safety concerns were identified in the clinical trials.
- At least 8 weeks of safety data were gathered in the trials. It is unusual for side effects to appear more than 8 weeks after vaccination.



Source: https://www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/covid-19/clinical-considerations.html

Strategies for mitigating post-vaccination absenteeism

- Strategies are needed to mitigate possible healthcare personnel absenteeism and resulting personnel shortages due to the occurrence of post-vaccination side effects. Considerations might include:
 - Staggering delivery of vaccine so that personnel from a single department or unit are not all vaccinated at the same time. Based on data from the clinical trials, staggering considerations may be more important following the second dose.
 - Planning for personnel to have time away from work if they develop side effects following COVID-19 vaccination.



Source: https://www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/covid-19/clinical-considerations.html

Safety of COVID-19 vaccines is a top priority

- COVID-19 vaccines are being held to the same safety standards as all vaccines.
- FDA's <u>Vaccines and Related Biological Products Advisory Committee</u> (<u>VRBPAC</u>) reviews applications for EUAs.
- The <u>Advisory Committee on Immunization Practices (ACIP)</u> considers safety and efficacy data before recommending use.
- VRBPAC and ACIP are independent committees composed of scientific and clinical experts.
- FDA and CDC monitor vaccine safety and side effects once vaccines are in use.





Robust vaccine safety monitoring systems exist

- Existing systems and data sources are used to monitor safety of vaccines post-authorization and post-licensure, such as:
 - <u>Vaccine Adverse Event Reporting System (VAERS)</u>
 - <u>Vaccine Safety Datalink (VSD)</u>
 - <u>Clinical Immunization Safety Assessment (CISA)</u>
 - Biologics Effectiveness and Safety System (BEST)
- New systems have been developed to monitor COVID-19 vaccine safety, such as v-safe:
 - Active surveillance that uses text messaging to initiate web-based survey monitoring.



Will provide telephone follow up to anyone who reports medically significant adverse events.



How was the vaccine development timeline accelerated while ensuring safety?

- Researchers used existing clinical trial networks to begin conducting COVID-19 vaccine trials.*
- Manufacturing started while the clinical trials were still underway.
 Normally, manufacturing doesn't begin until after completion of the trials.
- mRNA vaccines are faster to produce than traditional vaccines.
- FDA and CDC are prioritizing review, authorization, and recommendation of COVID-19 vaccines.



Elements of Vaccine Confidence

The Problem: Patients may be hesitant to receive COVID-19 vaccine

 Only 58% of the general public said they would receive a COVID-19 vaccine (as of an October 2020 Harris poll)





Tyson, A, Johnson, C, & Funk, C. (2020, September 17). U.S. Public Now Divided Over Whether To Get COVID-19 Vaccine. Pew Research Center. <u>https://www.pewresearch.org/science/2020/09/17/u-s-public-now-divided-over-whether-to-get-covid-19-vaccine/</u> Jackson, C., & Newall, M. (2020, September 29). *Despite COVID-19 spike, few individual behaviors are changing*. Ipsos. <u>https://www.ipsos.com/en-us/news-polls/axios-ipsos-coronavirus-index</u>

Vaccine hesitancy among healthcare providers

- American Nursing Foundation Survey (Oct 2020)
 - 63% were somewhat or very confident that the vaccine will be safe and effective.
 - 34% would voluntarily receive COVID-19 vaccine.
 - 57% are comfortable discussing COVID-19 vaccines with patients.
- CDC web survey with healthcare providers (Sept–Oct 2020)
 - 63% said they would get a COVID-19 vaccine.

Sources:



Defining vaccine confidence

- Vaccine confidence is the trust that patients, parents, or providers have in:
 - Recommended <u>vaccines</u>
 - Providers who administer vaccines
 - Processes and policies that lead to vaccine development, licensure, manufacturing, and recommendations for use





Willingness to accept a vaccine falls on a continuum

INCREASING CONFIDENCE IN VACCINE, VACCINATOR, AND HEALTH SYSTEM

May have questions, take "wait and see" approach, want more information

Refusal Passive Acceptance



Strategies for Building Vaccine Confidence



A National Strategy to Reinforce Confidence in COVID-19 Vaccines

Build Trust	Objective: Share clear, complete, and accurate messages about COVID-19 vaccines and take visible actions to build trust in the vaccine, the vaccinator, and the system in coordination with federal, state, and local agencies and partners.
Empower Healthcare Personnel	Objective: Promote confidence among healthcare personnel in their decision to get vaccinated and to recommend vaccination to their patients.
Engage	Objective: Engage communities in a sustainable, equitable, and inclusive

Communities & Individuals Objective: Engage communities in a sustainable, equitable, and inclusive way—using two-way communication to listen, build trust, and increase collaboration.



A component of the National Strategy to Reinforce Confidence in COVID-19 Vaccines

- Tactics ✓ Engage national professional associations, health systems, and healthcare personnel often and early to ensure a clear understanding of the vaccine development and approval process, new vaccine technologies, and the benefits of vaccination.
 - Ensure healthcare systems and medical practices are equipped to create a culture that builds confidence in COVID-19 vaccination.
 - Strengthen the capacity of healthcare professionals to have empathetic vaccine conversations, address myths and common questions, provide tailored vaccine information to patients, and use motivational interviewing techniques when needed.



Top 6 strategies for building COVID-19 vaccine confidence among healthcare personnel

- 1. Encourage senior leaders to be vaccine champions.
- 2. Host discussions where personnel at different levels can provide input and ask questions.
- 3. Share key messages with staff through emails, breakroom posters, and other channels
- 4. Educate healthcare teams about COVID-19 vaccines, how they are developed and monitored for safety, and how teams can talk to others about the vaccines.
- 5. Educate non-medical staff about the importance of getting vaccinated.
- 6. Make the decision to get vaccinated visible and celebrate it!



1. Encourage senior leaders to be vaccine champions

- Talk to your leaders about vaccine confidence and why it's important.
- Ask leaders to lead by example and be photographed while getting COVID-19 vaccine.
- Invite leaders to share their personal reasons for getting vaccinated and the importance of vaccination for all staff. Share via:
 - Testimonials given during elevator conversations, meetings, and staff presentations
 - Short videos
 - Email blasts
 - Social media



– Blogs or web articles



Photo credit: National Foundation for Infectious Diseases

2. Host discussions with personnel at different levels

- <u>Purpose</u>: To provide a forum for questions and generate ideas for how to increase COVID-19 vaccine confidence and make it visible
- Format: Facilitated meeting (suggest 60-minutes)
- <u>Participants</u>: People representing management, healthcare teams, labor unions, and support staff. Involve COVID-19 Incident Command Teams as appropriate.
- <u>Facilitator</u>: Staff member who is well-respected and seen as a neutral convener on the topic
- Discussion Guide: <u>https://www.cdc.gov/vaccines/covid-</u> 19/health-systems-communication-toolkit.html





3. Share these key messages with staff

- Share the messages below through emails, breakroom posters, and other channels:
 - Get a COVID-19 vaccine to protect yourself, your patients, your peers, your friends, and your family from infection.
 - Vaccine confidence starts with you! Building defenses against COVID-19 in this facility is a team effort.
 - Getting the COVID-19 vaccine is an added layer of protection against infection for yourself, your colleagues and your patients.
 - There are several things you can do to help build vaccine confidence:
 - Choose to get vaccinated yourself (and get the recommended number of doses).
 - Share your reasons for getting vaccinated and encourage others.
 - Learn how to have effective COVID-19 vaccine conversations.



4. Educate healthcare teams

- Educate teams about COVID-19 vaccines, how they are developed and monitored for safety, and how teams can talk to others about vaccines.
- Teach teams how to have effective COVID-19 vaccine conversations and answer common questions.
- CDC Resources:
 - COVID-19 Vaccine Basics: What Healthcare Personnel Need to Know (PowerPoint)
 - Building Confidence in COVID-19 Vaccines Among Your Patients (PowerPoint)





www.cdc.gov/vaccines/covid-19/health-systemscommunication-toolkit.html

4. Educate healthcare teams: Provider resources for COVID-19 vaccine conversations with patients

- Preparing to Provide COVID-19 Vaccines
- Talking to Patients about COVID-19 Vaccines
- Understanding and Explaining mRNA COVID-19 Vaccines
- Making a Strong Recommendation for COVID-19 Vaccination
- Answering Patients' Questions
- More tools coming soon!





www.cdc.gov/vaccines/hcp/covid-conversations

4. Educate healthcare teams: COVID-19 vaccine clinical training resources

- COVID-19 Vaccine Training: General Overview of Immunization Best Practices for Healthcare Professionals
- Webinars about ACIP recommendations and vaccine products
- Clinical forms, trackers, and FAQs
- Educational materials about each authorized vaccine:
 - Online training module
 - Vaccine preparation and administration summary
 - Storage and handling summary
 - Temperature log for freezer units
 - Beyond use date tracker labels for refrigerator storage
 - Standing orders template



https://www.cdc.gov/vaccines/covid-19/vaccination-resources.html

5. Educate non-medical staff about the importance of getting vaccinated

- Educate non-medical staff about COVID-19 vaccines and the vaccine development and safety monitoring process.
- Emphasize the benefits of protecting themselves, their families, their coworkers, and patients.
- Create a feedback mechanism for asking questions.
- Let them know they also have an important role to play in making vaccine confidence visible.
- CDC resources:
 - COVID-19 Vaccine Basics: What Healthcare Personnel Need to Know (PowerPoint)

<u>www.cdc.gov/vaccines/covid-19/health-systems-</u> <u>communication-toolkit.html</u>





6. Make the decision to get vaccinated visible and celebrate it!

- Provide "I got my COVID-19 vaccine!" pins, lanyards, masks, bracelets, etc.
- Post a photo gallery in common or break areas or online showing cheerful staff who just got vaccinated.
- Offer a small, sincere token of gratitude for early adopters.
- Record testimonials on why healthcare personnel in your facility decided to get vaccinated and share with the media.
- Share inclusive, positive, behind-the-scenes moments showing staff for caring for patients.
- Reach out to local news outlets to highlight your health facility's leadership in COVID-19 vaccine introduction.



www.cdc.gov/vaccines/covid-19/health-systems-

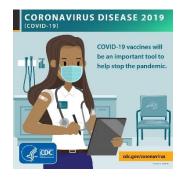
communication-toolkit.html



Tools and resources

- Posters
- Plain language fact sheets
- Drop-in articles/blogs
- "I got my COVID-19 vaccine!" button design
- Social media content and graphics
- Coming soon: videos



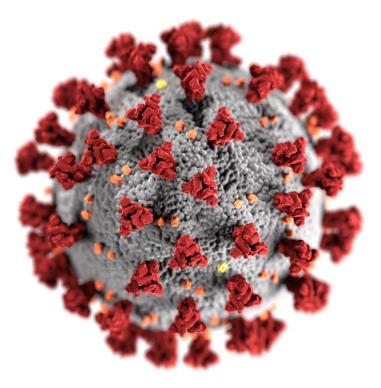






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For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

