

EPIC[®] is presented by:

- Georgia Chapter American Academy of Pediatrics
- Georgia Department. of Public Health/Immunization Program
- · In Cooperation with:

Georgia Academy of Family Physicians

Georgia Chapter - American College of Physicians

Georgia OB/Gyn Society

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Faculty Disclosure Information

- In accordance with ACCME* and ANCC-COA** Standards, all faculty members are required to disclose to the program audience any real or apparent conflict of interest to the content of their presentation.
- This presentation will include the most current ACIP recommendations for frequently used vaccines but is not a comprehensive review of all available vaccines.
- Some ACIP recommendations for the use of vaccines have not currently been approved by the FDA.
- Detailed information regarding all ACIP Recommendations is available at www.cdc.gov/vaccines/acip/recs/index.html

*Accreditation Council for Continuing Medical Education

**American Nurses Credentialing Center Commission on Accreditation

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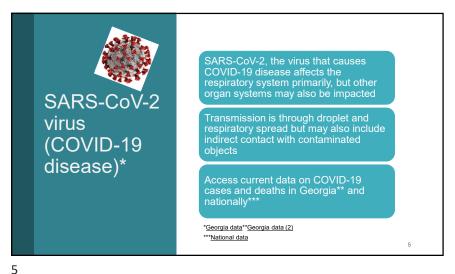
Objectives

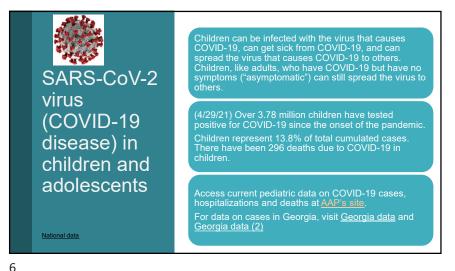
At the end of this presentation, you will be able to:

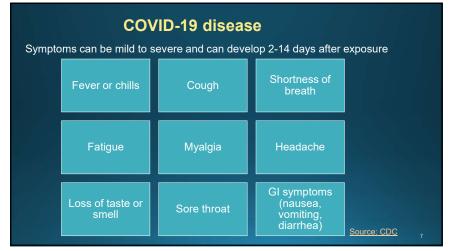
- Name 4 possible symptoms of COVID-19 disease
- Name 3 vaccines approved to prevent COVID-19 disease
- Discuss the storage, handling, and administration of COVID-19 vaccines
- Name 3 of 5 keys to prevention of COVID-19 disease

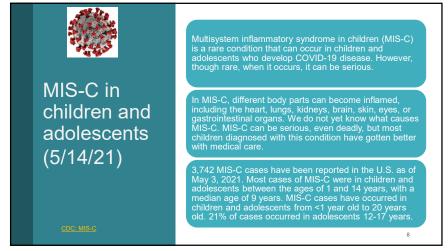
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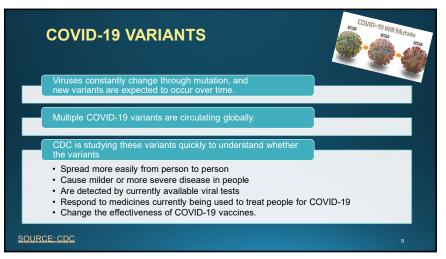
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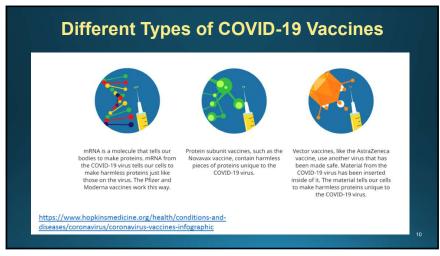


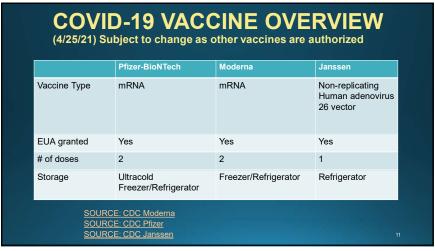












Pfizer-BioNTech and Moderna are the two mRNA COVID-19 vaccines authorized for use in the U.S. under an EUA (as of 4/25/21)

The vaccines work by:

• Teaching our cells how to make the spike protein of the SARS- CoV2 virus. This triggers an immune response inside our bodies through the formation of antibodies to prevent infection and to develop 'memory cells' to help protect us against infection with the actual SARS-CoV2 virus in the future.

Myths and facts about mRNA vaccines:

• mRNA vaccines cannot give someone COVID-19.
• mRNA vaccines do not use the live virus that causes COVID-19.
• They do not affect or interact with our DNA in any way.
• mRNA never enters the nucleus of the cell, which is where our DNA (genetic material) is kept.
• The cell breaks down and gets rid of the mRNA soon after it is finished using the instructions.

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	Pfizer-BioNTech	Moderna
Vaccine Type	mRNA (messenger RNA) Efficacy ≈ 95% in preventing symptomatic disease	mRNA (messenger RNA) Efficacy ≈ 94.1% effective in preventing symptomatic disease
Age Indication	≥ 12 years of age** (age subject to change based on FDA review)	≥ 18 years of age** (age subject to change based on FDA review)
Recipient EUA (Emergency Use Authorization) factsheet	https://www.fda.gov/media/144 414/download	https://www.fda.gov/media/144 638/download
Vaccine Presentation	Multi-dose vial, 5 doses per vial	Multi-dose vial,10 doses per vial
Packaging	195 vials/tray (975 doses)	10 vials/carton (100 doses)
Dose	0.3 mL (IM)	0.5 mL (IM)
Dose Dosing Regimen	0.3 mL (IM) 2 doses, separated by 21 days	0.5 mL (IM) 2 doses, separated by 28 day

Non-replicating Viral Vector Vaccines

Janssen is the one non-replicating viral vector vaccine currently authorized for use in the U.S. under an EUA (as of 4/25/21)

The vaccines work by:

• Using a modified version of a different virus to deliver instructions via a gene to a cell. Our cells are taught how to make the spike protein of the SARS- CoV2 virus. This triggers an immune response inside our bodies through the formation of antibodies to prevent infection and to develop 'memory cells' to help protect us against infection with the actual SARS-CoV2 virus in the future.

Myths and facts about non-replicating viral vector vaccines:

• Viral vector vaccines do not cause infection with either COVID-19 or the virus that is used as the vector.

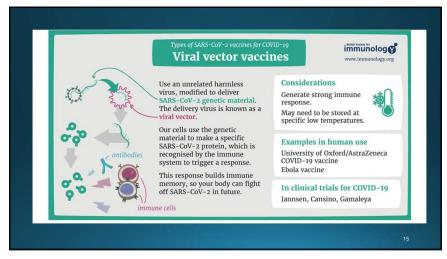
• The genetic material does not enter the cell nucleus and does not change a person's DNA.

• Viral vector vaccines have been well-studied in clinical trials.

• Viral vector vaccines have been used to respond to recent Ebola outbreaks.

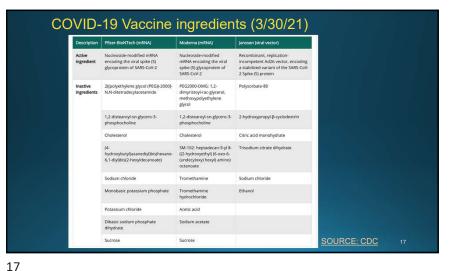
• Viral vector vaccines for COVID-19 will be rigorously tested for safety before being authorized or approved for use in the United States..

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	Janssen (J and J)
Vaccine Type	Non-replicating human adenovirus Efficacy ≈ 85% in preventing severe disease 93% in preventing hospitalizations
Age Indication	≥ 18 years of age
Recipient EUA (Emergency Use Authorization) factsheet	FDA Fact sheet for Recipients
Vaccine Presentation	Multi-dose vial, 5 doses per vial
Packaging	Each carton contains 10 multi-dose vials (50 doses)
Dose	0.5 mL (IM)
Dosing Regimen	1 dose

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COVID-19 mRNA vaccines Storage & Handling, Preparation & Administration Guidelines Moderna COVID-19 Vaccine Janssen COVID-19 Vaccine (Johnson & Johnson) -SOURCE: Immunization Action Coalition CDC:Pfizer CDC:Moderna CDC: Jansenn (J and J)

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Pause and then resumption of use of J and J vaccine 4/13/2021-4/23/2021 CDC and the U.S. Food and Drug Administration (FDA) recommend use of Johnson & Johnson's Janssen (J&J/Janssen) COVID-19 Vaccine resumed in the United States, after a temporary pause. Reports of adverse events following the use of J&J/Janssen vaccine suggest an increased risk of a rare adverse event called thrombosis with thrombocytopenia syndrome (TTS). Nearly all reports of this serious condition, which involves blood clots with low platelets, have been in adult women younger than 50 years old. There have also been cases in a few men. A review of all available data at this time shows that the J&J/Janssen COVID-19 Vaccine's known and potential benefits outweigh its known and potential risks. However, women younger than 50 years old should be aware of the rare but increased risk of this adverse event and that there are other COVID-19 vaccine options available for which this risk has not been seen. CDC and FDA will continue to monitor the safety of all COVID-19 vaccines SOURCE: CDC

Seek medical care right away if you develop any of the symptoms below after receiving the J and J vaccine severe headache, · backache, · new neurologic symptoms, · severe abdominal pain, · shortness of breath, · leg swelling, · tiny red spots on the skin (petechiae), or · new or easy bruising • If you have any questions or concerns, call your doctor, nurse, or clinic. SOURCE: CDC

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FDIC 2021

What should providers do?

- Review the revised LINK: EUA Fact Sheet for Vaccination Providers
- Keep up to date and read the official CDC health alert, <u>LINK: Cases of Cerebral Venous Sinus Thrombosis with Thrombocytopenia after Receipt of the Johnson & Johnson COVID-19 Vaccine</u>, which includes details about how to assess and care for a patient that presents with thrombosis or thrombocytopenia.
- Share available information with your patients about signs and symptoms to watch for after receiving the J and J vaccine
- Report adverse events to the <u>Vaccine Adverse Event Reporting</u> <u>System.</u>

SOURCE: HEMATOLOGY

DURCE: CDC

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Vaccination of children and adolescents (5/14/21)

SOURCE: CDC

- Persons 12 years and older are now eligible to receive the Pfizer-BioNTech COVID-19 vaccine. (age subject to change based on FDA review of pending trials)
- Children and adolescents younger than 18 years of age are not authorized to receive the Moderna or Janssen COVID-19 vaccines at this time.
- Clinical trials are underway for children and adolescents younger than 12 years of age with Pfizer vaccine and younger than 18 years of age with Moderna and Janssen vaccines (5/14/21).

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AAP Policy Statement COVID-19 vaccination children and adolescents (5/12/21)

- The AAP recommends COVID-19 vaccination for all children and adolescents 12 years of age and older who do not have contraindications using a COVID-19 vaccine authorized for use for their age.
- Any COVID-19 vaccine authorized through Emergency Use Authorization by the FDA, recommended by the CDC, and appropriate by age and health status can be used for COVID-19 vaccination in children and adolescents.
- Given the importance of routine vaccination and the need for rapid uptake of COVID-19 vaccines, the AAP supports coadministration of routine childhood and adolescent immunizations with COVID-19 vaccines (or vaccination in the days before or after) for children and adolescents who are behind on or due for immunizations

UPDATES CLINICAL TRIALS Vaccination of children and adolescents (5/14/21)

- Update as information received
- Pfizer vaccine trials (ages 6 months to 12 years old) enrolling, ongoing
- Moderna vaccine trials (ages 6 months to 18 years old) enrolling, ongoing
- Janssen vaccine trials (under 18 years of age) enrolling

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COVID-19 Vaccine Interim Clinical Considerations (Updated 5/14/2021) 1

- The (ACIP) interim recommends the use of Pfizer-BioNTech COVID-19 vaccine in adolescents ages 12–15 years May 10, 2021
- Estimated efficacy 100% in preventing symptomatic, lab confirmed COVID-19 disease. 2260 participants ages 12-15 years old enrolled
- Immune response similar to that observed in adolescents and young adults ages 16–25 years
- Reactogenicity symptoms (within 7 days post vaccination): 90.9% of vaccine recipients reported any local reaction and 90.7% reported any systemic reaction, mostly mild to moderate
- Pain at the injection site was the most common local reaction. Systemic adverse reactions (e.g., fever, fatigue, headache, muscle pain) were more commonly reported after the second dose than after the first dose. The local and systemic reactions were similar to those reported in persons aged ≥16 years. No specific safety concerns were identified among adolescent vaccine recipients

COVID-19 Vaccine Interim Clinical Considerations (Updated 5/14/2021) 2

- COVID-19 vaccines and other vaccines may now be administered without regard to timing.
- It is unknown whether reactogenicity of COVID-19 vaccine is increased with coadministration, including with other vaccines known to be more reactogenic, such as adjuvanted vaccines or live vaccines.
- If multiple vaccines are administered at a single visit, administer each injection in a different injection site. For adolescents and adults, the deltoid muscle can be used for more than one intramuscular injection.
- Administer the COVID-19 vaccines and vaccines that may be more likely to cause a local reaction (e.g., tetanus-toxoid-containing and adjuvanted vaccines) in different limbs, if possible.

SOURCE: CDC

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COVID-19 Vaccine Interim Clinical Considerations (Updated 5/14/2021) 3

- Adolescents ages 12–17 years are eligible to receive the Pfizer-BioNTech COVID-19 vaccine and may be vaccinated with appropriate assent.
- Follow current state/jurisdictional policies and practices in place for other routine immunizations in this age group.

SOURCE: CDC

<u>RCE: CDC</u>

COVID-19 Vaccine Interim Clinical Considerations (Updated 5/14/2021) 4

History of MIS-C or MIS-A

- Children with MIS-C have high antibody titers to SARS-CoV-2. It is unknown if this
 correlates with protection against reinfection and for how long protective antibody
 levels persist.
- People with a history of MIS-C or MIS-A may choose to be vaccinated.
- Consider delaying vaccination until recovery from illness and for 90 days after the date of diagnosis of MIS-C or MIS-A
- For people who develop MIS-C or MIS-A that is associated with a confirmed SARS-CoV-2 infection but occurs after receipt of a COVID-19 vaccine, referral to a specialist in infectious diseases, rheumatology, or cardiology should be considered.

SOURCE: CDC

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COVID-19 Vaccine Interim Clinical Considerations (Updated 5/14/2021) 5 ACIP does not state a product preference (provided it meets age requirements. Vaccines are NOT interchangeable The second dose of Pfizer-BioNTech and Moderna vaccines should be administered as close to the recommended interval as possible, but not earlier than recommended (i.e., 3 weeks [Pfizer-BioNTech] or 1 month [Moderna]). Second doses administered within a grace period of 4 days earlier than the recommended date for the second dose are still considered valid. Second dose may be administered up to 6 weeks (42 days) after the first dose. Currently, only limited data are available on efficacy of mRNA COVID-19 vaccines administered beyond this window. No booster (additional) doses of COVID-19 vaccines (after the initial dosing series) are recommended at this time.

People who were vaccinated outside the United States with an FDA-authorized COVID-19 vaccine and have received all the recommended doses do not need any additional doses.

In some circumstances people who received a COVID-19 vaccine not currently authorized in the United States may be offered revaccination with an FDA-authorized vaccine. Refer to Clinical considerations for further details.

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COVID-19 Vaccine Interim Clinical Considerations (5/14/21) 7 COVID-19 vaccines can be given safely to people with evidence of a prior SARS-CoV-2 infection. Defer vaccination until the person has recovered from the acute illness (if the person had symptoms) and they have met criteria to discontinue isolation.

COVID-19 Vaccine Interim Clinical Considerations (5/14/21) 8

 Before vaccination, counsel patients about expected local and systemic reactions and the availability of the v-safe program
 No CDC VIS is yet available
 Give appropriate EUA to vaccine recipients

SOURCE: CDC

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Vaccination of people with certain underlying medical conditions with COVID-19 Vaccine

SOURCE:CDC

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Any currently authorized COVID-19 vaccine can be administered to people with underlying medical conditions who have no contraindications to vaccination. ACIP does not state a product preference.

- · Persons with autoimmune conditions
- Persons with past history of Guillain-Barre` Syndrome or Bells' Palsy
- Persons who are immunocompromised (they may have a reduced immune response to the vaccine)

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COVID-19 Vaccination of Pregnant or Lactating Women

SOURCE: ACOG

- Pregnancy is a factor that leads to increased risk for severe COVID-19 disease and adverse pregnancy outcomes.
- ACOG recommends COVID-19 vaccine should not be withheld from pregnant or lactating women
- Prior conversation with a clinician may be helpful but should not be required.
- A pregnancy registry is looking at safety data and is ongoing.
- Pregnancy testing should not be required prior to receiving an approved COVID-19 vaccine.
- · COVID-19 vaccines do not alter your DNA.
- ACOG recommends vaccination of persons who are actively trying to become pregnant. There is no evidence that any of the COVID-19 vaccines affect future fertility.

COVID-19
Vaccination
Other
considerations

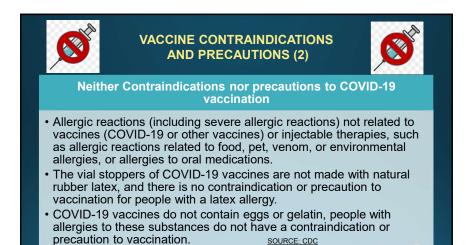
SOURCE: ACOG

- Vaccination should be deferred for at least 90 days in persons who previously received passive antibody therapy for COVID-19 intertion
- COVID-19 vaccine breakthrough case: a person who has SARS-CoV-2 RNA or antigen detected on a respiratory specimen collected ≥14 days after they complete all recommended doses of an FDA-authorized COVID-19 vaccine. CDC encourages local health departments, healthcare providers, and clinical laboratories to
 - · Request the respiratory specimen be held for further testing
 - Report the case to the state health department where the individual resides
 - COVID-19 vaccine breakthrough cases that result in hospitalization or death should be reported to VAERS
- COVID-19 vaccines are not currently recommended for outbreak management or for post-exposure prophylaxis to prevent SARS-CoV-2 infection in a person with a known exposure

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VACCINE CONTRAINDICATIONS AND PRECAUTIONS Contraindications **Precautions** Persons with a history of an immediate Persons with a severe allergic reaction (anaphylaxis) after a previous dose or to any component of COVID-19 vaccine allergic reaction to any other vaccine or injectable therapy (i.e., intramuscular, Immediate allergic reaction of any intravenous, or subcutaneous vaccines or therapies [excluding subcutaneous immunotherapy for allergies, i.e., "allergy severity to a previous dose or known (diagnosed) allergy to a vaccine component (including PEG for either mRNA vaccine and polysorbate 80 for People with a reaction to a vaccine or injectable therapy that contains multiple Janssen vaccine) People with a contraindication to one components, one of which is a vaccine type of the currently authorized COVIDcomponent, but in whom it is unknown 19 vaccines (e.g., mRNA) have a which component elicited the immediate allergic reaction precaution to the other (e.g., Janssen viral vector) SOURCE: CDC

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Preparing for the potential management of anaphylaxis at COVID-19 vaccine sites Should be available at all locations If feasible, include at locations (not required) Epinephrine (e.g., prefilled syringe, Pulse oximeter autoinjector)* H1 antihistamine (e.g., Oxygen diphenhydramine, cetirizine)† Blood pressure monitor‡ Bronchodilator (e.g., albuterol) Timing device to assess pulse H2 antihistamine (e.g., famotidine, cimetidine) Intravenous fluids Intubation kit Adult-sized pocket mask with one-way valve (also known as cardiopulmonary resuscitation [CPR] mask) SOURCE: CDC

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Observation after COVID-19 vaccination

30 minutes:

- History of an immediate allergic reaction of any severity to a vaccine or injectable therapy
- People with a contraindication to a different type of COVID-19 vaccine
- History of anaphylaxis due to any cause

15 minutes: All other people



Vaccine Adverse Events (1)

- Syncope risk after vaccination
 - Before vaccination, counsel patients about expected local and systemic reactions, especially syncope
 - Have patient sit or lie down to receive vaccine
 - Observe for 15 minutes under medical supervision
 - Wait 30 minutes if history of allergic reaction



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VACCINE ADVERSE EVENTS (2) Usually appear in the first two days and then resolve within a week after vaccination Side effects may be more pronounced after the 2nd dose of vaccine and after prior COVID19 infection **SYSTEMIC LOCAL REACTIONS REACTIONS** • Pain Fatigue Redness Headache Swelling Chills Fever · Muscle pain Nausea SOURCE: CDC

Vaccine adverse events (3)

• Adverse events that occur in a recipient following COVID-19 vaccination should be reported to VAERS. Vaccination providers are required by the FDA to report the following that occur after COVID-19 vaccination under EUA:

• Vaccine administration errors

• Serious adverse events

• Cases of Multisystem Inflammatory Syndrome

• Cases of COVID-19 that result in hospitalization or death

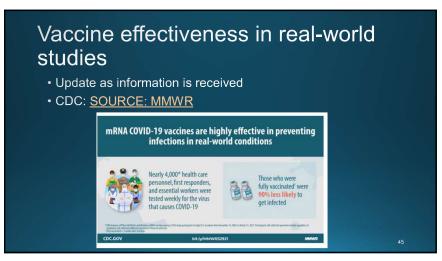
VAERS----https://www.cdc.gov/vaccinesafety/ensuringsafety/monitoring/vsd/index.html V-safe----https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/vsafe.html

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Immunity after COVID-19 vaccination or COVID-19 disease After having COVID-19 disease, getting the virus again (reinfection) is uncommon in the 90 days after the first infection with the virus that causes COVID-19. It is unknown how long this type of protection lasts. After receiving a COVID-19 vaccine, it is not yet known how long the protection from those doses will last. These are new vaccines for a disease that emerged only recently, which means there are not yet long-term data. For continued protection, follow CDC guidelines re: wearing masks, social distancing, avoiding large crowds, and hand washing after receiving your vaccine SOURCE: NFID

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COVID-19 Vaccine Interim Clinical Considerations (5/14/21) 11

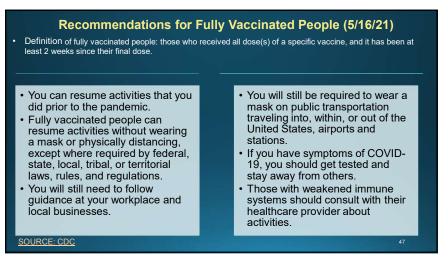
TB skin tests and COVID-19 vaccines

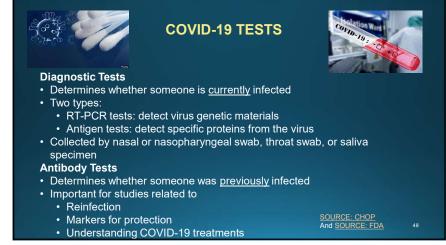
• COVID-19 vaccines should not be delayed because of testing for TB infection.

• Testing for TB infection with one of the immune-based methods, either the tuberculin skin test (TST) or an interferon release assay (IGRA), can be done before or during the same encounter as COVID-19 vaccination.

• When testing with TST or IGRA cannot be done at the same time as COVID-19 vaccination, these tests should be delayed ≥4 weeks after the completion of COVID-19 vaccination but generally should not be cancelled.

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Testing After Vaccination

- Antibody testing is not currently recommended to assess for immunity to COVID-19 following COVID-19 vaccination or to assess the need for vaccination in an unvaccinated person.
- · Infectious virus is never produced by vaccine
- · Vaccination does not interfere with the viral testing used to evaluate someone for current infection
- Vaccination will cause the generation of antibodies, so this needs to be considered when planning antibody testing
- Currently available antibody tests for SARS-CoV-2 assess IgM and/or IgG to one of two viral
 proteins: spike or nucleocapsid. Because COVID-19 vaccines are constructed to encode the spike
 protein, a positive test for spike protein IgM/IgG could indicate prior infection and/or vaccination.
- To evaluate for evidence of prior infection in an individual with a history of COVID-19 vaccination, a specific test evaluating IgM/IgG to the nucleocapsid protein should be used

SOURCE: CHOP and SOURCE: CDC

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Source: CDC

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QUARANTINE RECOMMENDATIONS (COVID-19 DISEASE) (2)

- Options to reduce quarantine based on recommendations of local health departments
 - After day 10 without testing
 - After day 7 after receiving a negative test on day 5 or later

After stopping quarantine

Watch for symptoms until after 14 days of exposure

If symptoms develop, immediately self-isolate and contact your physician

Practice ALL prevention measures, i.e. masks, social distancing, hand washing, avoiding crowds

Source: CD0

Source. CD

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QUARANTINE RECOMMENDATIONS (COVID-19 DISEASE)

- For the most up-to-date guidance please review CDC guidance*
- Quarantine recommendations after known or possible exposure
 - Stay home for 14 days after last contact with COVID-19 patient
 - Watch for fever of 100° F. or higher
 - Be alert to problems with shortness of breath or other COVID-19 symptoms
 - If possible, stay away from others, especially people who are at <u>higher risk</u> for getting very sick from COVID-19
- Persons who have been in close contact with a COVID-19 patient are <u>not</u> required to guarantine if:
 - they have been fully vaccinated within the last 3 months and have no symptoms
 - they have tested positive for COVID-19 within the past 3 months and recovered

FAQS

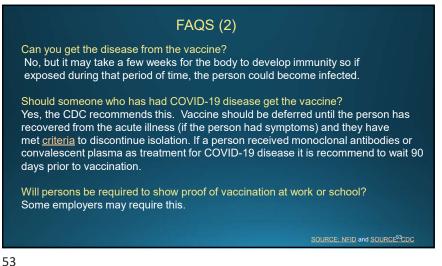
What is mRNA?

Messenger RNA---found in all living cells; teaches cells to make a protein to help trigger an immune response. Cannot alter our DNA.

How do we know the vaccines are safe?

All vaccines must undergo extensive safety testing, which is reviewed by the FDA before the vaccine is licensed for widespread use.

Can a person receive the vaccine if they are taking antibiotics? Yes, there is no interaction between the two.



Critical Elements for Immunization Services

Health Care Provider Role Set a good example. Get vaccinated yourself! Recommend the vaccine (Engage in effective COVID-19 vaccine conversations) Start from a place of empathy and understanding Assume patients will want to be vaccinated but may not know what to expect · Discuss anticipated side effects · Give a strong recommendation! Listen to and respond to patient questions • Encourage registration in v-safe Document the vaccine in GRITS and on a personal record for the patient

Health Care Provider **Training**

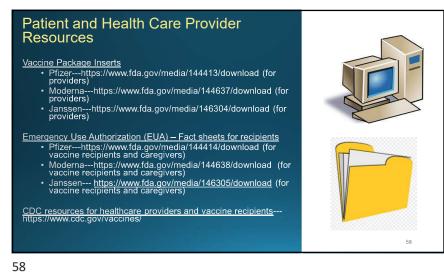
- Training opportunities for HCPs (COVID-19 vaccines, talking to patients, FAQs)
 - https://www.cdc.gov/vaccines/covid-19/training.html
 - https://www2.cdc.gov/vaccines/ed/covid19/SHVA/index.asp
 - https://www2.cdc.gov/vaccines/ed/covid19/pfizer/index.asp
 - https://services.aap.org/en/pages/2019-novel-coronavirus-covid-19infections/
 - https://services.aap.org/en/pages/2019-novel-coronavirus-covid-19infections/covid-19-vaccine-frequently-asked-questions/
 - https://www.gritstest.state.ga.us/docs/COVID-19 Clinical Training and Resources for HCPs.pdf

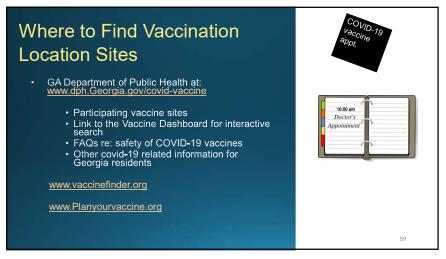
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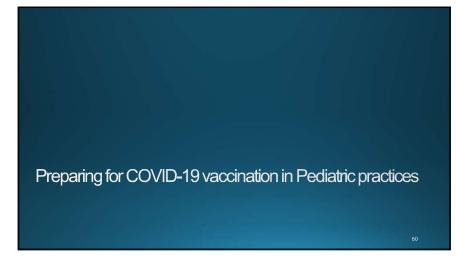
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Prepare for COVID-19 vaccines Pediatricians and their teams can begin preparing by: •Enrolling to become a COVID-19 vaccine site •Encourage and administer catch-up vaccines to children •Consider and learn about providing COVID-19 vaccines to adults •Review AAP's #CallYourPediatrician campaign

Becoming a COVID-19 vaccination provider/site

- In order to receive shipments of COVID vaccine when it becomes available, you will need to complete an online enrollment application. **GRITS** has added new functionality to allow COVID-19 Providers to submit their Enrollment forms electronically versus paper forms. Please visit (https://www.grits.state.ga.us) to be taken to the GRITS homepage.
- Links for mandatory trainings are included on the enrollment application
- Electronic signature and license number of Medical Director and Chief Medical Director required

SOURCE: DPH GA

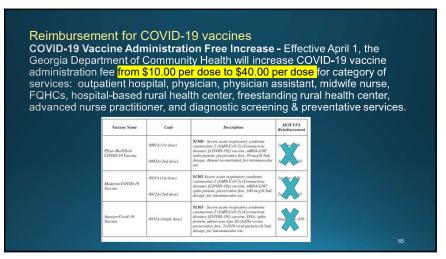
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Coding for COVID-19 Services

- New ICD-10-CM COVID-19 Diagnosis Codes:
 - Effective January 1, 2021
 - Eligible codes: Z11.52, Z20.822, Z86.16, M35.81, M35.89, and J12.82
 - If you have submitted claims with these codes and received a claim denial, DCH will automatically reprocess any claims with DOS 1/1/2021 through 3/3/2021.
 Reprocessing to be completed by 3/31/21.

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COVID-19 vaccine distribution and reporting (5/17/21)

Ancillary supplies (needles, syringes, alcohol swans, vaccine card, diluent, limited masks and face shields) will be included with Pfizer vaccine, COVID-19 vaccination records must be submitted within 24 hours of administration

Speak with your GRITS representative about entering doses into GRITS

All doses are entered and stored as public doses in GRITS

Receipt of shipments must be manually entered into GRITS inventory

For additional guidance visit: https://dph.georgia.gov/covid-vaccine-information-providers

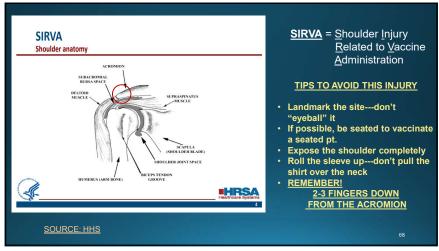
Provider Technical Support

GRITS Hotline (Technical/IT questions): 866-483-2958 or email at dph-gaimmreg@dph.ga.gov

Provider Support (Provider enrollment questions, Pin #s): 888-920-0165 or email DPH-COVID19vaccine@dph.ga.gov

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SOURCE: ISMP and SOURCE: CDC

Improper Immunization Administration Practices with Any Vaccine

SOURCE: CDC SOURCE: IMMUNIZATION ACTION COALITION

DO NOT re-use needles or syringes, due to the possibility of:

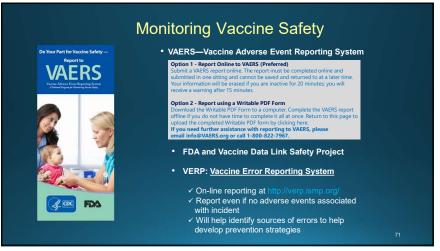
- · Transmission of blood-borne viruses (HCV, HBV, HIV)
- · Referral of providers to licensing boards for disciplinary action
- · Malpractice suits filed by patients

Never use partial doses from 2 or more vials to obtain a dose of vaccine.

Per OSHA and the CDC, you MAY use the same needle to withdraw a diluent, inject this into a lyophilized vaccine vial, and then administer to a patient, providing the needle or syringe has not otherwise been contaminated or damaged.

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Reporting of vaccine adverse events Adverse events that occur in a recipient following COVID-19
 vaccination should be reported to VAERS. <u>Vaccination providers are required</u> by the FDA to report the following that occur after COVID-19 vaccination under EUA: · Vaccine administration errors · Serious adverse events · Cases of Multisystem Inflammatory Syndrome · Cases of COVID-19 that result in hospitalization or death · Reporting is encouraged for any other clinically significant adverse event, even if it is uncertain whether the vaccine caused the event. Information on how to submit a report to VAERS is available at https://vaers.hhs.gov or by calling 1-800-822-7967. SOURCE: CDC

COVID-19 Vaccine Errors

If an incorrect amount of diluent is used, the patient may get too

Administering vaccine vial contents WITHOUT adding diluent first

Vials of vaccine and Regeneron antibodies have been mixed up, partially due to similar packaging and inattention to the vial label

· Doses wasted due to canceled appointments or leftovers at the end of the clinic day

· Use of certain syringes that contain a dead space between the hub and needle, thus

much or too little vaccine. Using the wrong diluent.

Product Packaging and Labeling Issues

wasting small amounts of vaccine

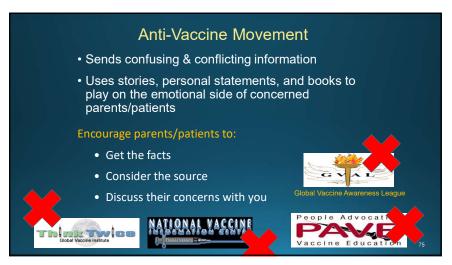
Waste of Vaccine Doses

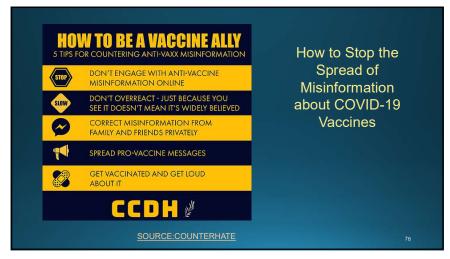
72 71

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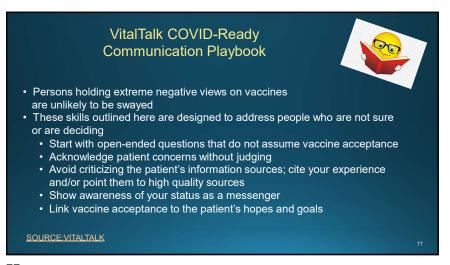






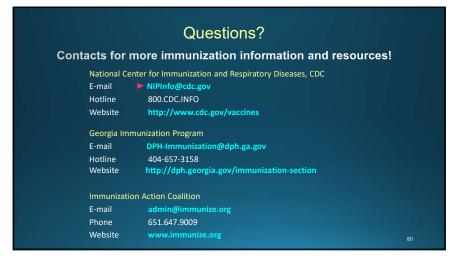


75 76

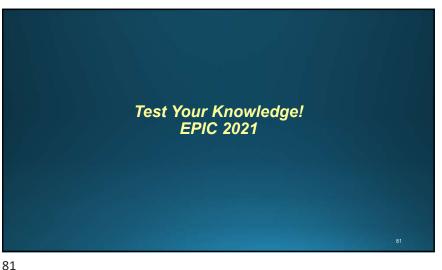








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Interchangeability of COVID-19 Vaccines The same vaccine product does not have to be used for both doses. Another COVID-19 vaccine product can be used to complete the series.(TRUE or FALSE)

Interchangeability of COVID-19 Vaccines

- Answer: (FALSE, however, okay in rare situations)
 - FALSE: A series started with a particular COVID-19 vaccine should be completed with the same product. There have been no trials testing the efficacy of a mixed-product series - that is, a series that includes 2 different COVID-19 vaccine products
 - · But, if two doses of different mRNA COVID-19 vaccine products are inadvertently administered, no additional doses of either product are recommended at this time.
 - The safety and efficacy of Janssen COVID-19 vaccine administered after an mRNA COVID-19 vaccine has not been established. <u>However, in limited, exceptional situations where a patient received the first dose of an mRNA COVID-19 vaccine but is unable to complete the</u> series with either the same or different mRNA COVID-19 vaccine (e.g., due to contraindication), a single dose of Janssen COVID-19 vaccine may be considered at a minimum interval of 28 days from the mRNA COVID-19 vaccine dose. See Contraindications and Precautions section for additional information on use of Janssen COVID-19 vaccine and additional precautions in people with a contraindication to mRNA COVID-19 vaccines. Patients who receive Janssen COVID-19 vaccine after a dose of an mRNA COVID-19 vaccine should be considered to have received a valid, single-dose Janssen vaccination—not a mixed vaccination series.

SOURCE:CDC

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