



FPIC 2022



Table of Contents					
Section	Slides				
Overview COVID-19 disease					
Overview of COVID-19 vaccines mRNA Vaccines and Non replicating Viral vector vaccines Overview Vaccine guidelines					
COVID-19 vaccines 6 months and older • Vaccine schedules, Boosters and Additional doses • Safety considerations in children • Special Considerations • Other guidelines related to COVID-19 vaccination					
Selected adverse events after COVID-19 vaccination					
COVID-19 disease: Testing and Quarantine					
Critical Elements for Immunization Services Health care provider resources: training, toolkits, job aids Ordering vaccines Billing and Coding Vaccine Administration Vaccine Communication					
Test your knowledge/FAQ's	6				





6

8

SARS-CoV-2, the virus that causes COVID-19 disease affects the respiratory system primarily, but other organ systems may also be impacted

Transmission is through droplet and respiratory spread but may also include indirect contact with contaminated objects

Access current data on COVID-19 cases and deaths in Georgia** and nationally***

*<u>Georgia data</u>**<u>Georgia data (2)</u> ***<u>National data</u>





Omicron variant

As of 6/1/2022, Omicron is responsible for over 98% of positive SARS-CoV-2 in the United States.

- <u>The Omicron variant, like other variants, is comprised of subvariants, lineages and sublineages.</u> Three of the more common ones are BA.1, BA.1.1 and BA.2.
- <u>Spread/contagiousness:</u> The Omicron variant spreads more easily than the original virus that causes COVID-19 and the Delta variant. CDC expects that anyone with Omicron infection can spread the virus to others, even if they are vaccinated or don't have symptoms
- <u>Disease severity</u>: Omicron infection generally causes less severe disease than infection with prior variants. Preliminary data suggest that Omicron may cause more mild disease, although some people may still have severe disease, need hospitalization, and could die from the infection with this variant. Even if only a small percentage of people with Omicron infection need hospitalization, a large volume of cases in a community could overwhelm the healthcare system which is why it's important to take steps to protect yourself.

6/24/22 SOURCE: CDC Omicron variant

Omicron variant 2

- <u>Vaccine effectiveness</u>: Current vaccines protect against severe illness, hospitalizations, and deaths due to infection with the Omicron variant. However, <u>breakthrough</u> <u>infections</u> in people who are vaccinated can occur. People who are <u>up to date with their</u> <u>COVID-19 vaccines</u> and get COVID-19 are less likely to develop serious illness than those who are unvaccinated and get COVID-19.
- <u>COVID-19 vaccines</u> remain the best public health measure to protect people from COVID-19 and reduce the likelihood of new variants emerging. This includes primary series, <u>booster shots</u>, and additional doses for those who need them.
- <u>Treatments:</u> Scientists are working to determine how well existing treatments for COVID-19 work. Some, but not all, <u>monoclonal antibody treatments</u> remain effective against Omicron. Other non-monoclonal antibody treatments remain effective against Omicron. Public health agencies work with healthcare providers to ensure that effective treatments are used appropriately to treat patients.

/24/22			

12





Children can be infected with the virus that causes COVID-19, can get sick from COVID-19, and can spread the virus that causes COVID-19 to others. Children, like adults, who have COVID-19 but have no symptoms ("asymptomatic") can still spread the virus to others.

(6/20/2022) Over 13.5million children have tested positive for COVID-19 since the onset of the pandemic.

Children represented 19% of total cumulated cases since the pandemic began. Among states reporting, children were 0.00%-0.32% of all COVID-19 deaths.

Access current pediatric data on COVID-19 cases, hospitalizations and deaths at <u>AAP's site</u>.

For data on cases in Georgia, visit <u>Georgia data</u> and <u>Georgia data</u> (2)

16

National data 6/24/22



Multisystem inflammatory syndrome in children (MIS-C) is a rare condition that can occur in children and adolescents who develop COVID-19 disease. However, though rare, when it occurs, it can be serious.

In MIS-C, different body parts can become inflamed, including the heart, lungs, kidneys, brain, skin, eyes, or gastrointestinal organs. We do not yet know what causes MIS-C. MIS-C can be serious, even deadly, but most children diagnosed with this condition have gotten better with medical care.

Over 8525 MIS-C cases and 69 deaths due to MIS-C have been reported in the U.S. as of May 31, 2022. Half of children with MIS-C were between the ages of 5 and 13 years, with a median age of 9 years. MIS-C cases have occurred in children and adolescents from <1 year old to 20 years old.



https://www.cdc.gov/vaccines /acip/meetings/slides-2022-06-18.html and also https://www.cdc.gov/vaccines/acip/meetings/slides-2022-06-22-23.html







18

Hospitalizations among Children (2)



Severity of Hospitalizations







Deaths among Children

Marc	h 1, 2020–April 30	, 2022
	Age group	Rank of COVID-19 among causes of death
	<1 year	4
	1–4 years	5
	5–9 years	5
	10–14 years	4
	15–19 years	4

	Hepatitis A ¹	Meningococcal (ACWY) ²	Varicella ³	Rubella ⁴	Rotavirus ⁵	COVID-196
Age	<20 years	11–18 years	5–9 years	All ages	<5 years	6 months – 4 years
Time period	1990–1995	2000–2004	1990– 1994	1966– 1968	1985– 1991	Jan 2020– May 2022
Average deaths per year	3	8	16	17	20	86
¹ Vogt TM, Wise N ² National Notifiat ³ Meyer PA, Sewar doi:10.1086/3157 ⁴ Roush SW, Murp ⁵ Glass RI, Kilgore Suppl 1:55-11. ⁶ https://data.cdc	AE, Bell BP, Finelli L. Declinin, le Diseases Surveillance Syst d JF, Jumaan AO, Wharton N '14 My TV; Historical comparisor PE, Holman RC, et al. The ep .cov/NCHS/Provisional-COVI	g hepatitis A mortality in the Unit em with additional serogroup an I. Varicella mortality: trends befo is of morbidity and mortality for idemiology of rotavirus diarrhea D-19-Deaths-Counts-by-Aze-in-Y	ted States during the era d outcome data from Eni re vaccine licensure in the vaccine-preventable dise; in the United States: surv ears/3apk-4u4f/data, Acc	of hepatitis A vaccinati anced Meningococcal e United States, 1970-1 uses in the United State eillance and estimates essed 5/14/22	on. J Infect Dis2008; 1973 Disease Surveillance for 1994. J Infect Dis. 2000;11 es. JAMA 2007; 298:2155 of disease burden. J Infe	1282-8. 2015-2019. 12[2]:383-390. -63. tt Dis. 1996 Sep;174









U.S. COVID-19 epidemiology in children 6 months-4 years

- COVID-19 has caused >2 million cases among children ages 6 months 4 years
- Children 6 months-4 years of age are at risk of severe illness from COVID-19
- More than half of hospitalized children ages 6 months-4 years had no underlying conditions
 COVID-19 associated hospitalizations among children ages 6 months-4 years have similar or increased severity compared to older children and adolescents
- Burden of COVID-19 associated death is similar to or exceeds that of other pediatric vaccine preventable diseases
- Prior infection may not provide broad protection against newer SARS-CoV-2 variants
- COVID-19 pandemic continues to have significant impact on families

 The AAP recommends COVID-19 vaccination for all children and adolescents 6 months of age and older who do not have contraindications using a

COVID-19 vaccine authorized for use for their

FDA, recommended by the CDC, and appropriate by age and health status can be used for COVID-

 Any COVID-19 vaccine authorized through <u>Emergency Use Authorization</u> or approved by the

19 vaccination in children and adolescents.

SARS-CoV-2 should receive COVID-19

are behind on or due for immunizations

vaccination, according to CDC guidelines.
AAP supports coadministration of routine childhood and adolescent immunizations with COVID-19 vaccines (or vaccination in the days)

Children with previous infection or disease with

before or after) for children and adolescents who

age.

Subject to change based on 6/23/22 meeting

	 Persons 6 months and older are now eligible to receive the Pfizer-BioNTech COVID-19 vaccine or the Moderna COVID- 19 vaccine.
accination	 Children and adolescents younger than 18 years of age are not authorized to receive the Janssen COVID-19 vaccines at this time.
children 1d	 A Pfizer COVID-19 Booster dose is now recommended for all persons 5 years to 17 years, 5 months after completion of dose 2 of their primary series
lolescents	 A Pfizer additional dose is recommended for some children and adolescents 5 years and older who are moderately or severely immunocompromised to complete the primary series (total of 3 primary doses). A booster dose is also recommended 3 months after the 3rd dose and a <u>second</u> <u>booster dose 4 months after the first booster dose for</u> moderately or severely immunocompromised people 12
<u>Booster 3 2022</u> DC	years and older

AAP Policy Statement COVID-19 vaccination children and adolescents

SOURCE: AAP

30

29

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FDA: Secon

SOURCE: C

6/24/22

UPDATES CLINICAL TRIALS Vaccination of children and adolescents (6/1/2022)

- At this time, The safety and efficacy of the Janssen COVID-19 Vaccine have not been established in individuals younger than 18 years of age.
- Clinical trials ongoing

2 Update as information received

Overview of COVID-19 vaccines

mRNA Vaccines Non replicating Viral vector vaccines Vaccine Storage and Handling, Dosing, Ingredients Interim Clinical Recommendations from the CDC

Different Types of COVID-19 Vaccines





mRNA is a molecule that tells our bodies to make proteins. mRNA from the COVID-19 virus tells our cells to make harmless proteins just like those on the virus. The Pfizer and Moderna vaccines work this way.

Protein subunit vaccines, such as the Novavax vaccine, contain harmless pieces of proteins unique to the COVID-19 virus. COVID-19 virus has been inserted inside of it. The material tells our cells to make harmless proteins unique to the COVID-19 virus.

https://www.hopkinsmedicine.org/health/conditions-anddiseases/coronavirus/coronavirus-vaccines-infographic

33

COVID-19 VACCINE OVERVIEW In most situations, Pfizer-BioNTech or Moderna COVID-19 vaccines are preferred over the Janssen COVID-19 Vaccine for primary and booster vaccination. (Table Subject to change as other vaccines are authorized) Pfizer-BioNTech Moderna Janssen Vaccine Type mRNA mRNA Non-replicating Human adenovirus 26 vector EUA granted EUA 6 months-15 EUA 6 months - 17 EUA 18 yrs and vears vears older Approved 16 and older Approved 18 yrs and older SOURCE: CDC Pfizer SOURCE: CDC Janssen SOURCE: CDC Moderna

34

36

mRNA vaccines

Pfizer-BioNTech and Moderna are the two mRNA COVID-19 vaccines authorized for use in the U.S. under an EUA. Pfizer-BioNTech is approved for persons 16 years and older

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.

6/24/22 <u>SOURCE: CDC</u>

<u>DC</u>

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 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.

SOURCE: C

С	OVID-19 non-replicating viral ve	ector vaccines
_ <u>In</u>	<u>ı most situations, Pfizer-BioNTe</u>	ch or Moderna COVID-19 vaccines
a	re preferred over the Janssen C	OVID-19 Vaccine for primary and
b	ooster vaccination	
		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 (EUA)
	Recipient EUA (Emergency Use Authorization) factsheet	FDA Fact sheet for Recipients
	Vaccine Presentation	Multi-dose vial, 5 doses per vial
	Dose	0.5 mL (IM)
/24/22	Dosing Regimen	1 dose <u>SOURCE</u> CDC

COVID-19 vaccination schedule for most people

 COVID-19 vaccination schedule for most people



38

Description	Pfizer-BioNTech (mRNA) For persons aged 5-11 years (10µg dose) formulation	Pfizer-BioNTech (mRNA) For persons aged ≥12 years (30µg dose) formulation	Moderna (mRNA) For persons aged ≥18 years	Janssen (viral vector) For persons aged ≥18 years
Active ingredient	Nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS- CoV-2	Nucleoside-modified mRNA encoding the viral spike (5) glycoprotein of SARS- CoV-2	Nucleoside-modified mRNA encoding the viral spike (5) glycoprotein of SARS-CoV-2	Recombinant, replication-incompeter Ad26 vector, encoding stabilized variant of the SARS-CoV-2 Spike (S) protein
Inactive ingredients	2[(polyethylene glycol (PEG))-2000]-N,N- ditetradecylacetamide	2[(polyethylene glycol (PEG))-2000]-N,N- ditetradecylacetamide	PEG2000-DMG:1,2- dimyristoyl-rac-glycerol, methoxypolyethylene glycol	Polysorbate-80
	1,2-distearoyl-sn-glycero-3- phosphocholine	1,2-distearoyl-sn-glycero-3- phosphocholine	1,2-distearoyl-sn-glycero-3- phosphocholine	2-hydroxypropyl-β- cyclodextrin
	Cholesterol	Cholesterol	Cholesterol	Citric acid monohydrat
	(4-hydroxybutyl)azanediyl)bis(hexane- 6,1-diyl)bis(2-hexyldecanoate)	(4-hydroxybutyl)azanediyl)bis(hexane- 6,1-diyl)bis(2-hexyldecanoate)	SM-102:heptadecan-9-yl 8- ((2-hydroxyethyl) (6-oxo-6- (undecyloxy) hexyl) amino) octanoate	Trisodium citrate dihydrate
	Tromethamine	Sodium chloride	Tromethamine	Sodium chloride
	Tromethamine hydrochloride	Monobasic potassium phosphate	Tromethamine hydrochloride	Ethanol
	Sucrose	Potassium chloride	Acetic acid	
		Dibasic sodium phosphate dihydrate	Sodium acetate	
		Sucrose	Sucrose	





40

EDIC 2022





44

COVID-19 Vaccines for 6 months - 4 years (Pfizer) or 6 months - 5 years (Moderna

- Pfizer-BioNTech COVID-19 vaccine
- Children ages 6 months 4 years
- Moderna COVID-19 vaccine Children ages 6 months – 5 years
 - 2 doses
- There is NO COVID-19 vaccine currently authorized or approved for children younger than 6 months.

https://www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html#not-

Pfizer-BioNTech COVID-19 vaccine schedule: ages 6 months through 17 years for most children

- Children ages 6 months-4 years: Should receive a 3-dose primary series. The first and second doses are separated by 3-8 weeks and the second and third doses are separated by at least 8 weeks. Currently, a booster dose is not authorized for this age group.
- Children ages 5–11 years: Should receive a 2-dose primary series separated by 3-8 weeks and 1 booster dose at least 5 months after completion of the primary series.
- Adolescents ages 12–17 years: Should receive a 2-dose primary series separated by 3–8 weeks and 1 booster dose at least 5 months after completion of the primary series.

Pfizer-BioNTech COVID-19 vaccine

schedule: ages 6 months through 17 years for people who are moderately or severely immunocompromised

- Children ages 6 months—4 years: Should receive a 3-dose primary series. The first and second doses are separated by 3 weeks and the second and third doses are separated by at least 8 weeks. Currently, a booster dose is not authorized for this age group.
- Children ages 5–11 years: Should receive a 3-dose primary series and 1 booster dose.
 For the primary series, the first and second doses are separated by 3 weeks and the second and third doses are separated by at least 4 weeks. The booster dose is administered at least 3 months after completion of the primary series.
- Adolescents ages 12–17 years: Should receive a 3-dose primary series and 2 booster doses. For the primary series, the first and second doses are separated by 3 weeks and the second and third doses are separated by at least 4 weeks. The first booster dose is administered at least 3 months after completion of the primary series and the second booster dose at least 4 months after the first booster dose.

45

The Diontreen					rimary series	в	ooster dosest
Age indication	Vaccine vial cap color	Label border color	Dilution required	Dose	Injection volume	Dose	Injection volume
6 months-4 years‡	Maroon	Maroon	Yes	3 µg	0.2 mL	NA	NA
5-11 years	Orange	Orange	Yes	10 µg	0.2 mL	10 µg	0.2 mL
12 years and older	Purple	Purple	Yes	30 µg	0.3 mL	30 µg	0.3 mL
12 years and older	Gray	Gray	No	30 µg	0.3 ml	30 µg	0.3 mL
Pfizer-Bi Dos form	oNTech sing and ulations						

		unc. c	indicit ages o months-4 years	
Outcome	Importance	Design (# studies)	Findings	Evidence
Benefits		(# studies)		(Ipc
1a. Symptomatic lab-confirmed COVID-19 (efficacy)	Critical	RCT (1)	Pfizer-BioNTech COVID-19 vaccine is effective in preventing symptomatic COVID-19; certainty in the estimate was very low	4
1b. Symptomatic lab-confirmed COVID-19 (immunobridging)	Critical	RCT (1)	Pfizer-BioNTech COVID-19 vaccine is effective in preventing symptomatic COVID-19	2
2. Hospitalization due to COVID-19	Important	No studies	Data not available from any studies	ND
3. Multisystem inflammatory syndrome in children (MIS-C)	Important	No studies	Data not available from any studies	ND
4. Asymptomatic SARS-CoV-2 infection	Important	No studies	Data not available from any studies	ND
Harms				
5. Serious adverse events	Critical	RCT (1)	1.0% of participants with SAEs among vaccinated and 1.5% among unvaccinated; certainty in the estimate was very low. 2 SAEs in 1 participant in the vaccine arm were judged to be related to vaccination.	4
6. Reactogenicity	Important	RCT (1)	Severe reactions were slightly more common in vaccinated; any grade ≥3 reaction was reported by 4.3% of vaccinated vs. 3.6% of placebo group	2
Reactogenicity	Important	RCT (1)	unvaccinated; certainty in the estimate was very low. 2 SAEs in 1 participant in the vaccine arm were judged to be related to vaccination. Severe reactions were slightly more common in vaccinated; any grade ≥3	4

46

48

Moderna COVID-19 vaccine schedule: ages 6 months through 17 years for most children and adolescents

- Children ages 6 months-11 years:
 - Children ages 6 months–5 years: Should receive a 2-dose primary series separated by 4–8 weeks. Currently, a booster dose is not authorized for children in this age group who receive a Moderna primary series.
 - Children ages 6–11 years: Should receive a 2-dose primary series separated by 4–8 weeks. Currently, a booster dose is not authorized for children in this age group who receive a Moderna primary series.
 - Adolescents ages 12–17 years: Should receive a 2-dose primary series separated by 4–8 weeks. Currently, a booster dose is not authorized for adolescents in this age group who receive a Moderna primary series.

https://www.odc.gov/vaccines/covid=19/Ginincal= 6/24/22 considerations/interim-considerationa-sub.html#nol= 48

Moderna COVID-19 vaccine schedule: ages 6 months through 17 years for people <u>who are moderately or</u> <u>severely immunocompromised</u>

- Children ages 6 months–5 years: Should receive a 3-dose primary series. The first and second doses are separated by 4 weeks and the second and third doses are separated by at least 4 weeks. Currently, a booster dose is not authorized for children in this age group who receive a Moderna primary series.
- Children ages 6–11 years: Should receive a 3-dose primary series. The first and second doses are separated by 4 weeks and the second and third doses are separated by at least 4 weeks. Currently, a booster dose is not authorized for children in this age group who receive a Moderna primary series.
- Adolescents ages 12–17 years: Should receive a 3-dose primary series. The first and second doses are separated by 4 weeks and the second and third doses are separated by at least 4 weeks. Currently, a booster dose is not authorized for adolescents in this age group who receive a Moderna primary series

https://www.cdc.gov/

49

Outcome	Importance	Design (# studies)	Findings	Evider type
Benefits				
1. Symptomatic lab-confirmed COVID-19	Critical	RCT (1)	Moderna COVID-19 vaccine is effective in preventing symptomatic COVID-19	1
1b. Symptomatic lab-confirmed COVID-19 (immunobridging)	Critical	RCT (1)	Moderna COVID-19 vaccine is effective in preventing symptomatic COVID-19	2
2. Hospitalization due to COVID-19	Important	No studies	Data not available from any studies	ND
3. Multisystem inflammatory syndrome in children (MIS-C)	Important	No studies	Data not available from any studies	ND
4. Asymptomatic SARS-CoV-2 infection	Important	RCT (1)	The vaccine did not demonstrate efficacy in prevention of asymptomatic SARS-CoV-2 infection	3
Harms				
5. Serious adverse events	Critical	RCT (1)	0.5% of participants with SAEs among vaccinated and 0.2% among unvaccinated; certainty in the estimate was very low. Two SAEs which occurred in one participant were judged by the investigator to be related to vaccination.	4
6. Reactogenicity	Important	RCT (1)	Severe reactions were more common in vaccinated; any grade ≥3 reaction was reported by 7.7% of vaccinated vs. 4.1% of placebo group	1

50















Pfizer COVID-19 Vaccine Full Approval for ages 12 years and older

- July 8, 2022 the FDA granted full approval for COMIRNATY (Pfizer, COVID-19 vaccine) for persons 12 years and older.
- Vaccines under EUA (Emergency Use Authorization):
 Pfizer COVID-19 Vaccine 6 months through 11 years old
 - Moderna COVID-19 vaccine 6 months through 17 years old

Benefits of vaccinating older children and teens (5-18 years)

2 doses of Plizer-Bior	Tech vaccine agains	st <u>hospitali</u>	zation, D	ec 19, 2021-Apr 27,	2022
	patients/Total COVID-19 patients (%)	Adjusted VE % (95% CI)			
5-11 years*	25/325 (8)	68 (48-81)			-
12-18 years	109/286 (38)	51 (31-65)			
2-22 weeks since vaccination	42/219 (19)	58 (34-74)			
23-45 weeks since vaccination	67/244 (27)	42 (14-61)			
5–11 years	No. vaccinated MIS-C M patients/Total no. dd MIS-C patients (%) d 10/144 (7)	Median (IQR) ays from 2 nd ose to MIS-C 44 (32-56)	Adjusted VE (95% CI) 78 (48-90)		•
12-18 years	14/160 (9)	120 (57-169)	90 (81-95)		
28-120 days since vaccination	7/153 (5)	60 (42-89)	90 (75-96)		
≥121 days since vaccination	7/131 (5) 1	72 (138-215)	92 (78-97)		

Moderna COVID-19 vaccine clinical trials (6 to 17-year-olds)

- Study on 6-11-year-olds (2 doses, 50 mcg, IM)
- Study on 12–17-year-olds (2 doses, 100 mcg, IM)
- Efficacy seen after two doses of Moderna COVID-19 vaccine in children and adolescents ages 6–17 years of age consistent with real-world vaccine effectiveness seen with SARS-CoV-2 variants at that time
- Antibody levels after 2 doses in children and adolescents ages 6– 17 years produces similar antibody levels after 2 doses in individuals ages 18–25 years
- Reactogenicity post-vaccine consistent with what has been seen with Moderna COVID-19 vaccine in other age groups

https://www.cdc.gov/vaccines/acip/meetings/downloads/sli des-2022-06-22-23/06-COVID-Oliver-508.pdf

61

Can you interchange mRNA COVID-19 vaccine products?

- In general, the same mRNA vaccine product should be used for all doses in the primary series.
- In rare situations in which the mRNA vaccine product administered for a previous dose(s) of the primary series cannot be determined or is not available, any ageappropriate mRNA COVID-19 vaccine product may be administered at a minimum interval of 28 days between doses to complete the mRNA COVID-19 primary vaccination series.
- Children ages 6 months—4 years who receive different mRNA products for the first 2 doses of an mRNA COVID-19 vaccine series should follow a 3-dose schedule. A third dose of either mRNA vaccine should be administered at least 8 weeks after the second dose to complete the 3-dose primary series.

https://www.cdc.gov/vaccines/covid-19/clinicalconsiderations/interim-considerations-us.html#not-

62

Co-administration with other childhood vaccines

- Is allowed
- When deciding whether to co-administer another vaccine(s) with COVID-19 vaccine, providers and parents/guardians may consider:
 - whether a child is behind or at risk of becoming behind on recommended vaccines and the likelihood of the child returning for another vaccination;
 - the child's risk of becoming infected with a vaccine-preventable disease and their risk for severe disease if infected;

https://www.cdc.gov/vaccines/covid=19/clinicalconsiderations/interim-considerations-us.html#notimmunocompromised

and the reactogenicity profile of the vaccines.

Best practices for multiple injections

- Label each syringe with the name and the dosage (amount) of the vaccine, lot number, initials of the preparer, and exact beyond-use time, if applicable.
- Administer each injection in a different injection site; separate injection sites by 1 inch or more, if possible.
- Administer the COVID-19 vaccine and vaccines that may be more likely to cause a local reaction in different limbs, if possible.
- See ACIP's <u>general best practices</u> and <u>Epidemiology and</u> <u>Prevention of Vaccine-Preventable Diseases (Pink Book)</u> for further information.

https://www.cdc.gov/vaccines/covid=19/clinicalconsiderations/interim-considerations-us.html#notimmunocompromised





Monitoring Vaccine Safety

VAERS—Vaccine Adverse Event Reporting System

Option 1 - Report Online to VAERS (Preferred) ubmit a VAERS report online. The report must be completed online and ubmitted in one sitting and cannot be saved and returned to at a later time. our information will be erased if you are inactive for 20 minutes; you will eccive a warning after 15 minutes.

Option 2 - Report using a Writable PDF Form

Download the Writable PDF Form to a computer. Complete the VAERS report offline if you do not have time to complete it all at once. Return to this page to upload the completed Writable PDF form by clicking here. If you need further assistance with reporting to VAERS, please email info@VAERS.org or call 1-800-822-7967.

- FDA and Vaccine Data Link Safety Project
- VERP: Vaccine Error Reporting System

✓ On-line reporting at http://verp.ismp.org ✓ Report even if no adverse events associated with incident

✓ Will help identify sources of errors to help develop prevention strategies

















Additional dose after an initial primary vaccine series: A subsequent dose of vaccine administered to people who were less likely to mount a protective immune response after initial vaccination. People who are moderately or severely immunocompromised and who received Janssen COVID-19 Vaccine for their primary series should receive an additional dose.

Booster dose: A subsequent dose of vaccine administered to enhance or restore protection which might have waned over time after primary series vaccination.

SOURCE: CDC

Use of an additional dose of mRNA COVID-19 vaccine for immunocompromised people

- A 3-dose primary series is recommended for people ages 5 years and older who are moderately or severely immunocompromised at the time of vaccination. The same mRNA vaccine product should be used for all doses of the primary series.
- People who are moderately or severely immunocompromised and who received Janssen COVID-19 Vaccine for their primary series should receive an additional dose.

considerations/interim-considerations-us.html#not-immunocompromised

SOURCE: CDC

74

74





Safety considerations in Children and adolescents

76

considerations/interim-considerations-us.html#not-

Safety considerations for mRNA COVID-19 vaccines in children

- Among children ages 6 months—4 years (Pfizer-BioNTech) or 6 months—5 years (Moderna), pain/tenderness at the injection site was the most frequent local reaction.
- The most common systemic symptom in older children was fatigue; in younger children (ages 6–23 months), irritability/crying and drowsiness/sleepiness were most common.
- Most systemic symptoms were mild to moderate in severity, typically began 1–2 days after vaccination, and resolved after 1–2 days.

considerations/interim-considerations-us.html#notimmunocompromised

77

6/24/22

Safety considerations for mRNA COVID-19 vaccines in children

- Febrile seizures can occur in infants and young children ages 6 months–5 years with any condition that causes a fever (most common with high fevers), including <u>COVID-19</u>.
- Febrile seizures are not common after vaccination. Febrile seizures were rare in COVID-19 vaccine clinical trials for young children.
- In most cases, simultaneous vaccination (different vaccines on the same day) does not lead to higher rates of febrile seizures, although administering more than one vaccine at the same clinic visit has been associated with increased risk for febrile seizures in some studies of young children. The impact of coadministration of COVID-19 and routine vaccines on the risk of febrile seizures has not been specifically studied. CDC will monitor for febrile seizures following COVID-19 vaccination in young children.
- Unless people have a <u>contraindication</u> to <u>vaccination</u>, they should be encouraged to complete the series to optimize protection against COVID-19 even if they experience local or systemic symptoms following the first dose.

https://www.cdc.gov/vaccines/covid-19/clinicalconsiderations/interim-considerations-us.html#notimmunocompromised

78

Myocarditis and pericarditis

- A rare risk for myocarditis and/or pericarditis has been observed following receipt of mRNA COVID-19 vaccines. These rare cases of myocarditis or pericarditis have occurred most frequently in adolescent and young adult males within the first week after receiving the second dose of an mRNA COVID-19 vaccine. The <u>reporting rates for</u> <u>myocarditis</u> after mRNA COVID-19 vaccination exceed the background rates in several age groups in males and females. Some, but not all, observational <u>analyses</u> of postmarketing data suggest that there may be an increased risk of myocarditis and pericarditis in males ages 18–39 years following the second dose of Moderna COVID-19 vaccine relative to other authorized or approved mRNA COVID-19 vaccines.
 To dote dota suggest the risk for myocarditis for myocarditis and pericarditis of the second second the second s
- To date, data suggest the risk for myocarditis and/or pericarditis after mRNA COVID-19 booster doses in adolescents and young adults is generally lower than the risk after the second mRNA COVID-19 vaccination.

6/24/22	https://www.cdc.gov/vaccines/covid-19/clinical- considerations/interm-considerations-us.html#not- immunocompromised	79

Myocarditis and pericarditis (2)

- Most patients with myocarditis after mRNA COVID-19 vaccination have been hospitalized for short periods. CDC is assessing long-term outcomes in people with myocarditis after mRNA COVID-19 vaccination. Preliminary data from surveys conducted with healthcare providers caring for persons ages 5–29 years at least 90 days after the myocarditis diagnosis showed most patients were fully recovered from their myocarditis.
- After reviewing available data on the risks and benefits, ACIP and CDC determined that the benefits (e.g., prevention of COVID-19 cases and its <u>severe outcomes</u>) <u>outweigh</u> the risks of myocarditis and pericarditis after receipt of mRNA COVID-19 vaccines for <u>children</u>, <u>adolescents</u>, and <u>young adults</u>.
- People receiving mRNA COVID-19 vaccines, especially males ages 12–39 years, should be made aware of the rare risk of myocarditis and/or pericarditis following receipt of mRNA COVID-19 vaccines and the benefit of COVID-19 vaccination in reducing the risk of severe outcomes from COVID-19, including the possibility of cardiac sequelae. Counseling should include the need to seek care if <u>symptoms of myocarditis or pericarditis</u>, such as chest pain, shortness of breath, or tachycardia develop after vaccination, particularly in the week after vaccination. In younger children, symptoms of myocarditis may also include non-specific symptoms such as irritability, vomiting, poor feeding, tachypnea, or lethargy. Extending the riterval between the first and second mRNA vaccine dose to 8 weeks might reduce the risk.

https://www.odc.gov/vaccines/covid-19/clinical-6/24/22 considerations/interim-considerations-us.html#not- 80 immunocompromised

80

Considerations for extending intervals for mRNA COVID-19 vaccine primary series (Pfizer and Moderna)

> considerations/interim-considerations-us.html#notimmunocompromised

- An 8-week interval between the first and second doses of an mRNA COVID-19 vaccine primary series may be optimal for some people as it may reduce the small risk of myocarditis and/or pericarditis associated with mRNA COVID-19 vaccines.
- mRNA COVID-19 vaccines are FDA-approved or authorized for a 3week (Pfizer-BioNTech vaccine) or 4-week (Moderna vaccine) interval between the first and second dose.
- A 3- or 4-week interval continues to be the recommended interval for people who are moderately to severely immunocompromised, adults ages 55 years and older, and others who need rapid protection due to increased concern about community transmission or risk of severe disease.
- mRNA COVID-19 vaccines are safe and effective at the FDAapproved or FDA-authorized intervals, but a longer interval may be considered for some populations.
- While absolute risk remains small, the relative risk for myocarditis is higher for males ages 12-39 years, and this risk might be reduced by extending the interval between the first and second dose
- <u>Some studies</u> in adolescents (ages 12-17 years) and adults have shown the small risk of myocarditis associated with mRNA COVI-19 vaccines might be reduced and peak antibody responses and vaccine effectiveness may be increased with an interval longer than 4 weeks.

Myocarditis and pericarditis after vaccination in young children

- No cases of myocarditis or pericarditis were reported in children in the pre-authorization clinical trials of Pfizer-BioNTech (ages 6 months—4 years) or Moderna (ages 6 months—5 years) vaccines.
- In postmarketing surveillance, cases of myocarditis and pericarditis among children ages 5–11 years after Pfizer-BioNTech COVID-19 vaccination have been rarely reported, primarily in males and after dose 2. However, it is not yet known if this represents an increased risk of myocarditis. Safety monitoring is ongoing to assess for possible risk of myocarditis and pericarditis after mRNA COVID-19 vaccination in all age groups.

https://www.cdc.gov/vaccines/covid=19/clinical= considerations/interim-considerations-us.html#notimmunocompromised

81

6/24/22





Special considerations

- In accordance with <u>general best practices</u>, preterm infants (infants born before 37 weeks' gestation), regardless of birth weight, should receive COVID-19 vaccination at their chronological age and according to the same schedule and guidance as for full-term infants and children (see <u>Table 2</u>).
- Infants of mothers who were vaccinated and/or had COVID-19 or SARS-CoV-2 infection before or during pregnancy should be vaccinated according to the recommended schedule (see Table 2).

considerations/interim-consideratio vaccines

85

6/24/22

COVID-19 Vaccines when Transitioning from a younger to older age group

 People should receive the recommended age-appropriate vaccine dosage based on their age on the day of vaccination. If a person moves from a younger age group to an older age group during the primary series or between the primary series and receipt of the booster dose(s), they should receive the vaccine product and dosage for the older age group for all subsequent doses.

https://www.cdc.gov/vaccines/covid-19/clinical-

86

COVID-19 Vaccines when Transitioning from a younger to older age group(2)

Children who will turn from age 4 years to 5 years: <u>FDA</u> <u>authorization</u> of the Pfizer-BioNTech COVID-19 Vaccine allows children who will turn from age 4 years to 5 years between any dose in the primary series to receive

• A 2-dose primary series using the Pfizer-BioNTech COVID-19 Vaccine product authorized for children ages 5–11 years

OR

 A 3-dose primary series initiated with the Pfizer-BioNTech COVID-19 Vaccine product authorized for children ages 6 months-4 years. Each of doses 2 and 3 may be with the Pfizer-BioNTech COVID-19 Vaccine product authorized for children ages 6 months-4 years, or the Pfizer-BioNTech COVID-19 Vaccine product authorized for children ages 5–11 years.

6/24/22	https://www.cdc.gov/vaccines/covid-19/clinical- considerations/interim-considerations-us.html#covid- vaccines	87

COVID-19 Vaccines when Transitioning from a younger to older age group (3)

Children who will turn from age 11 years to 12 years: FDA <u>authorization</u> of the Pfizer-BioNTech COVID-19 Vaccine allows children who will turn from age 11 years to 12 years between their first and second dose in the primary series to receive, for either dose: (1) the Pfizer-BioNTech COVID-19 Vaccine product authorized for children ages 5–11 years or (2) the Pfizer-BioNTech COVID-19 Vaccine product authorized for people ages 12 years and older.

> https://www.cdc.gov/vaccines/covid-19/clinicalconsiderations/interim-considerations-us.html#notimmunocompromised

87

Resources for parents and providers On This Page · Recipient Education: https://www.cdc.gov/vac cines /covid-19/hcp/index.html COVID-19 Vaccination for Children: https://www.cdc.gov/vac cines /covid19/planning/childr en.html Information for Jurisdictions Quick Conversation Guide on Information for ediatric COVID-19 Vaccination Pharmacists





89

COVID-19 Vaccine Interim Clinical Considerations History of prior SARS-CoV-2 infection

In addition, people who recently had SARS-CoV-2 infection may consider delaying a primary series dose or their first or second COVID-19 vaccine booster dose by 3 months from symptom onset or positive test (if infection was asymptomatic). <u>Studies</u> have shown that increased time between infection and vaccination may result in an improved immune response to vaccination. Also, a low risk of reinfection has been observed in the weeks to months following infection. Individual factors such as risk of COVID-19 <u>severe disease</u>, <u>COVID-19</u> <u>community level</u>, or characteristics of the predominant SARS-CoV-2 strain should be taken into account when determining whether to delay getting a COVID-19 vaccination after infection.

 COVID-19 vaccination does not need to be delayed following receipt of monoclonal antibodies or convalescent plasma. (90 day waiting period no longer needed).

COVID-19 Vaccine Interim Clinical Considerations History of MIS-C or MIS-A

History of MIS-C or MIS-A

 Experts consider the benefits of COVID-19 vaccination for children and adolescents with a history of MIS-C (i.e., a <u>reduced risk of severe disease including potential recurrence of</u> <u>MIS-C after reinfection</u>) to outweigh a theoretical risk of an MIS-like illness or the risk of <u>myocarditis</u> following COVID-19 vaccination for those who meet the following three criteria:

1. Clinical recovery has been achieved, including return to normal cardiac function; 2. It has been at least 90 days after the diagnosis of MIS-C; and

3. The patient resides in an <u>area where the COVID-19 community level is high</u> or is otherwise at increased risk for exposure to SARS-CoV-2 (e.g., through occupation, travel, large gatherings)

91

124/22

COVID-19 Vaccine Interim Clinical Considerations Preference for mRNA vaccines

- An mRNA COVID-19 vaccine series is preferred over Janssen COVID-19 Vaccine for primary and booster vaccination.
- A person is considered fully vaccinated with vaccines against SARS-CoV-2 infection ≥2 weeks after receipt of the second dose in a 2-dose series (Pfizer-BioNTech and Moderna) or ≥2 weeks after receipt of a single dose of the Janssen COVID-19 Vaccine.
- CDC recommends that people remain up to date with their vaccines, which includes additional doses for individuals who are immunocompromised or booster doses at regular time points.

SOURCE: CDC 6/24/22

93

Up to Date for COVID-19 vaccines

· People ages 6 months and older are up to date with their COVID-19 vaccines when they have received all doses in the primary series and all booster doses recommended for them, when eligible.

94

6/24/22



COVID-19 Vaccine Interim Clinical Considerations Vaccine counseling

Before vaccination, counsel patients about expected local and systemic reactions and the availability of the v-safe program

- CDC VIS is available for FDA approved COVID-19 vaccines
- · Give appropriate EUA Fact sheets/VIS to vaccine recipients

SOURCE: CDC 6/24/22

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

Clinicians should consult current CDC guidance for:

- People with autoimmune conditions
- · People with a history of Bells' Palsy
- · People with a history of dermal filler use
- · People receiving antiviral therapy
- People with a history of myocarditis/pericarditis
- People with a history of thrombosis or risk factors for thrombosis
- People with a history of Guillain-Barre` Syndrome

SOURCE:CDC

98

97





For mRNA COVID-19 vaccines, history of myocarditis or pericarditis after a dost
 A subsequent dose of any COVID-19
 vaccine should generate the should gene

100

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, autoinjector)*	Pulse oximeter
H1 antihistamine (e.g., diphenhydramine, cetirizine)†	Oxygen
Blood pressure monitor‡	Bronchodilator (e.g., albuterol)
Timing device to assess pulse	H2 antihistamine (e.g., famotidine, cimetidine)
	Intravenous fluids
	Intubation kit
	Pocket mask with one-way valve (also known as cardiopulmonary resuscitation [CPR] mask) sized for adults and children
SOURCE: CDC	1



101

Immunity after COVID-19 vaccination

- We are still learning about COVID-19 vaccines. CDC continues to review evidence and update guidance as more information is learned.
- · We don't know how long protection lasts for those who are vaccinated. But we do know that COVID-19 has caused very serious illness and death for a lot of people. If you get COVID-19 you also risk giving it to loved ones who may get very sick. Getting a COVID-19 vaccine is a safer choice.
- People who have a condition or are taking medications that weaken their immune system may not be completely protected even if they are fully vaccinated. They should continue to take all precautions recommended for unvaccinated people, including wearing a well-fitted mask, until advised otherwise by their healthcare provider.
- CDC recommends an additional primary shot for moderate to severely immunocompromised people and booster shots for certain groups of people.
- For continued protection, follow CDC guidelines re: wearing masks, social distancing, avoiding large crowds, and hand washing after receiving your vaccine. Visit: COVID-19 Community Levels Tool from CDC

6/01/02		SOURCE:CDC	
6/24/22	CDC: boosters	SOURCE: NFID	103

Is COVID-19 vaccine immunity better than immunity from the disease? If I already had COVID-19 and recovered, am I protected by natural immunity, or do I still need to get a COVID-19 vaccine?

- Evidence is emerging that people get better protection by being fully vaccinated compared with previously having a COVID-19 infection. One study showed that unvaccinated people who already had COVID-19 are more than two times as likely than fully vaccinated people to get COVID-19 again.
- Children who get COVID-19 can develop serious complications like MIS-C—a condition where different body parts become inflamed, including the heart, lungs, kidneys, brain, skin, eyes, or gastrointestinal organs. Children with underlying medical conditions are more at risk for severe illness from COVID-19 compared with healthy children.
- COVID-19 is still a threat to people who are unvaccinated. Some people including children who get COVID-19 can become severely ill, which could result in hospitalization, and some have ongoing health problems several weeks or even longer after getting infected. Even people who did not have symptoms when they were infected can have these ongoing health problems.

102

Vaccine effectiveness in real-world studies

- COVID-19 vaccines are protecting people in the real world
- Two doses are better than one for mRNA vaccines: If you are getting the Pfizer-BioNTech or Moderna vaccine, be sure to get both doses and booster doses when eligible.
- While COVID-19 vaccines are effective, studies have shown some declines in vaccine effectiveness against infections over time, especially when the Delta and Omicron variants are circulating widely.
- Research shows that the COVID-19 vaccines used in the United States protect against severe disease, hospitalization, and death from known variants of concern; they may not be as effective in preventing asymptomatic infection
- Most people who get COVID-19 are unvaccinated. However, since vaccines are not 100% effective at preventing infection, some people who are fully vaccinated will still get COVID-19. This is called a breakthrough infection. Even when people who are fully vaccinated develop symptoms of COVID-19, they tend to be less severe than in people who are unvaccinated.

CDC 6/24/22

105

COVID-19 Vaccine Interim Clinical Considerations TB Skin testing

TB skin tests and COVID-19 vaccines

• COVID-19 vaccination should not be delayed because of testing for tuberculosis (TB) infection. Testing for TB infection with one of the immune-based methods, either the <u>tuberculin skin test (TST) or an interferon-gamma</u> release assay (IGRA), can be done before, after, or during the same encounter as COVID-19 vaccination.

SOURCE: CDC

106

Laboratory Testing and COVID-19 vaccines

- Antibody testing is not currently recommended to assess the need for vaccination in an unvaccinated person or to assess immunity to SARS-CoV-2 following COVID-19 vaccination. If antibody testing was done, vaccination with the primary series, an additional dose, or a booster dose should be completed as recommended regardless of the antibody test result
- Unvaccinated people who are being <u>screened for SARS-CoV-2</u> infection (e.g., work, school, travel requirement) may be vaccinated at the time of screening if they do not have <u>symptoms</u> consistent with COVID-19.
- Prior receipt of a COVID-19 vaccine will not affect the results of SARS-CoV-2 viral tests (nucleic acid amplification or antigen tests).
- FDA has reported that falsely reactive Rapid Plasma Reagin (RPR: nontreponemal) test results can occur with certain RPR tests for at least five months following COVID-19 vaccination in some people. Treponemal testing for syphilis such as *Treponema pallidum* particle agglutination (TP-PA) and treponemal immunoassays do not appear to be impacted by this issue.

3/24/22

Adverse events after COVID-19 vaccines

108

VACCINE ADVERSE EVENTS (1)

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



109

Vaccine Adverse Events (2)

- 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



110

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://vaers.hhs.gov/

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

TTS and J and J COVID-19 vaccine

- Thrombosis with thrombocytopenia syndrome (TTS) after J&J/Janssen COVID-19
 vaccination is rare and has occurred in approximately 4 cases per one million doses
 administered. TTS is a rare but serious adverse event that causes blood clots in large blood
 vessels and low platelets (blood cells that help form clots). A review of reports indicates a causal
 relationship between the J&J/Janssen COVID-19 vaccine and TTS.
- Cases of TTS, including deaths, following administration of the Janssen COVID-19 Vaccine have been reported in males and females, with the highest risk in females ages 30-49 years.
- Based on an updated <u>risk-benefit analysis</u>, COVID-19 vaccine recipients should be informed that mRNA COVID-19 vaccines are preferred over the Janssen COVID-19 Vaccine. Due to the risk of TTS, the Janssen COVID-19 Vaccine <u>should only be used in limited situations</u>:
- It is contraindicated to administer Janssen COVID-19 Vaccine to people with a history of TTS following receipt of the Janssen COVID-19 Vaccine or any other adenovirus vectorbased COVID-19 vaccines (e.g., AstraZeneca's COVID-19 Vaccine, which is not authorized or approved in the United States).

SOURCE: CDC

Seek medical care right away if you develop any of the symptoms below after receiving the J and J vaccine

- Shortness of breath
- Chest pain
- Leg swelling
- Persistent abdominal pain
- Severe or persistent headaches or blurred vision
- Easy bruising or tiny blood spots under the skin beyond the site of the injection
- If you have any questions or concerns, call your doctor, nurse, or clinic.

6/24/22 SOURCE: CDC

113

What should providers do?

- Clinicians should consult the Health Alert Network (HAN) <u>notification</u> and <u>guidance</u> from the American Society of Hematology for information on the diagnosis and treatment of suspected cases of TTS.
- Any occurrence of TTS following COVID-19 vaccination should be reported to <u>VAERS</u>.
- CDC and FDA will continue to monitor and review cases of TTS among people who receive any currently FDA-approved or FDA-authorized COVID-19 vaccine in the United States and may update this guidance in the future.

SOURCE: HEMATOLOGY

SOURCE: CDC

114

Guillain-Barre Syndrome (GBS) and Janssen COVID-19 vaccine

- Guillain-Barré syndrome (GBS) is a neurological disorder in which the body's immune system damages nerve cells, causing muscle weakness and sometimes paralysis.
- Vaccine safety monitoring suggests an <u>elevated risk of GBS after</u> <u>Janssen COVID-19 vaccination</u> with proportionally more GBS cases observed after Janssen COVID-19 vaccination compared with mRNA COVID-19 vaccination. The highest risk has been observed in people ages 40-64 years, with symptoms of GBS beginning within 42 days after Janssen COVID-19 vaccination; most GBS reports have been in males.
- Any occurrence of GBS following COVID-19 vaccination should be reported to <u>VAERS</u>.

SOURCE: FDA SOURCE: CDC

CDC

Guillain-Barre Syndrome (GBS) and Janssen COVID-19 vaccine (2)

People should seek medical attention immediately if they develop any of the following symptoms after receiving Janssen COVID-19 Vaccine:

- Weakness or tingling sensations, especially in the legs or arms, that is worsening and spreading to other parts of the body
- Difficulty walking
- Difficulty with facial movements, including speaking, chewing, or swallowing
- Double vision or inability to move eyes
- Difficulty with bladder control or bowel function

SOURCE: CDC

Myocarditis and Pericarditis after mRNA vaccination

- Myocarditis and/or pericarditis <u>have occurred</u> rarely in some people following receipt of mRNA COVID-19 vaccines.
- These rare cases of myocarditis or pericarditis have occurred most frequently in adolescent and young adult males within the first week after receiving the second dose of an mRNA COVID-19 vaccine
- Most patients have been hospitalized for short periods, with most achieving resolution of acute symptoms.
- Accumulating evidence from multiple sources suggests there may be an increased risk of myocarditis and pericarditis in males under 40 years of age following the second dose of the Moderna COVID-19 Vaccine relative to other authorized or approved mRNA COVID-19 vaccines.

SOURCE: CDC

117

Myocarditis and Pericarditis after mRNA vaccination (2)

- The <u>risk of myocarditis or pericarditis</u> associated with SARS-CoV-2 infection is greater than the risk of myocarditis or pericarditis occurring after receipt of an mRNA COVID-19 vaccine in adolescents and adults.
- After reviewing available data on the risks and benefits, ACIP determined that the benefits (e.g., prevention of COVID-19 cases) outweigh the risks of myocarditis and pericarditis after receipt of mRNA COVID-19 vaccines for <u>children</u>, <u>adolescents</u>, and <u>young adults</u>.
- People receiving mRNA COVID-19 vaccines, especially males ages 12–39 years, should be made aware of the rare risk of myocarditis and/or pericarditis following receipt of mRNA COVID-19 vaccines and the benefit of COVID-19 vaccination in reducing the risk of severe outcomes from COVID-19, including the possibility of cardiac sequelae.

SOURCE: CDC

118

Myocarditis and Pericarditis after mRNA vaccination - recommendations for Clinicians

- <u>Report all cases of myocarditis and pericarditis post COVID-19 vaccination to</u> <u>VAERS</u>.
- Consider myocarditis and pericarditis in adolescents or young adults with acute chest pain, shortness of breath, or palpitations after vaccination. In this younger population, coronary events are less likely to be a source of these symptoms.
- Extending the interval between the first and second mRNA vaccine dose to 8 weeks might reduce the risk.
- Ask about prior COVID-19 vaccination if you identify these symptoms, as well as relevant other medical, travel, and social history.
- Until additional safety data are available, experts recommend that people who develop myocarditis or pericarditis after a dose of an mRNA COVID-19 vaccine generally should not receive a subsequent dose of any COVID-19 vaccine.

Current CDC guidance for cliniciansRCE: CDC

119



For vaccinated persons

- Uses voluntary smartphone-based text messaging and web surveys to provide personalized health check-ins after receiving a COVID-19 vaccination
- Information sheet provided at time of vaccination to every person
- Simple to register, only takes 1-2 minutes to answer each text message request
- Need help?
 - Call 800-CDC-INFO
- Open 24 hours, 7 days a week

SOURCE:v-safe





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 or to determine the need to quarantine after a close contact with someone who has COVID-19. Some antibody tests will not detect the antibodies generated by COVID-19 vaccines.
- 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
 <u>@@@IRCE: CHOP</u> and <u>SOURCE: CDC</u>
 123

QUARANTINE RECOMMENDATIONS (COVID-19 DISEASE)

For the most up-to-date guidance for healthcare workers and for the general public, please review CDC guidance*

- · You guarantine when you might have been exposed to the virus.
- You isolate when you have been infected with the virus, even if you don't have symptoms.

	When to S Calculating Q The date of your e had COVD-19. Su general public	tay Home Juarantine exposure is considered day 0. E ay home and away from other ;	Day 1 is the first full day after yo people for at least 5 days. <u>Lear</u>	sur last contact with a person who has t why CDC used and audience for the	Calculating Isu Day 0 is your first d your test specimen	olation Say of symptoms or a positive I was collected. If you have CO	viral test. Day 1 is the first full c VID-19 or have symptoms, isolo	lay after your symptoms developed or ite for at least 5 days.
DC: HCP's	# YEU Were exposed to COVID-19 and are NOT upto-date en COVID-19 veconations	Quarantine for at least 5 days Sky home Sky home and surrantize for at least 5 full days. Wara avell fitted mask for your must be around others in your home. Get tested form if you don't develop symptoms, pet tested at heart 5 days ather you last heart 5 days ather you last heart 5 days ather you last heart 5 days ather you last	After quarantine Watch for symptoms with 10 days after you lat had dose contact with someone with COVID-19. If you develop symptoms plante immediately and get tested, Continue to stay home will by our know the results. West a well- fitted mask knownd others.	Take precutions until day 10 Wear a web. Wear a web. Wear a web. Free transit the 10 AUI days any time you are astrond days any time you are unable to aver a most and the series a most. Availat being answard people who are a high risk.	IF YOU Tested positive for COVID-19 or have symptoms, regardless of vaccination status	Stay home for at least 5 days Stay home for 5 days and lisediate from others in your home. Wear a well-fitted mask if you must be around others in your home.	Ending isolation if you had symptoms End isolation after. 5 full diggs if you are fever-free for 24 hours (without the use of fever-reducing medication) and your symptoms are improving. Ending isolation (you did NOT have symptoms Ending solation if you did NOT have symptoms Endings after your positive test.	Take precutions until day 10 Wear a mask Wear a well-fitted musik for 10 full days any time you are around others inside your home or in public. Do not go baless where you are unable to wear a musik. Avoid tarwel Avoid being around people who are at Nigh risk
<u>purce:</u> <u>DC</u>	If YOU Were exposed to COVID-19 and are up-to- date with	No quarantine You do not need to stay home unless you develop symptoms.	Watch for symptoms Watch for symptoms until 10 days after you last had close contact with someone with COVID-19.	Take precautions until day 10 Wear a mask Wear a well-fitted mask for 10 full days any time you are around others inside your home or in			with COVID-19 You should isolate for at least 10 days. <u>Consult</u> your doctor before ending isolation.	

Critical Elements for Immunization Services Health care provider resources: training, toolkits, job aids Ordering vaccines Billing and Coding Vaccine Administration Vaccine Communication

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

126

SOURCE:CDC

Health Care Provider Training

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

AAP Resources for Providers and Parents (Vaccine Campaign Toolkit)









127

Patient and Health Care Provider Resources

Vaccine Package Inserts

- Pfizer---https://www.fda.gov/media/144413/download (for providers)
- Moderna----https://www.fda.gov/media/144637/download (for providers)
- Janssen---https://www.fda.gov/media/146304/download (for providers)

VIS/Emergency Use Authorization (EUA) - Fact sheets for recipients

- Pfizer---https://www.fda.gov/media/144414/download (for vaccine recipients and caregivers)
 Moderna---https://www.fda.gov/media/144638/download (for vaccine recipients and caregivers)
- Janssen--- <u>https://www.fda.gov/media/146305/download</u> (for vaccine recipients and caregivers)

CDC resources for healthcare providers and vaccine recipients--https://www.cdc.gov/vaccines/







130

129

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

Things to consider as you prepare your office for COVID-19 vaccines

- · Who will you vaccinate? Patients only, adults, community?
- Define your vaccination hours, visits
- · Promoting/marketing to your patients that vaccine is available
- Plan for avoiding vaccine wastage
- Where will you vaccinate: inside, outside, car?
- Staffing needs
- How much vaccine should you order at one time?

132

Things to consider as you prepare your office for COVID-19 vaccines (2)

Identify a vaccine champion/coordinator:

- discuss pre-drawing and labeling vaccine syringes
- monitoring time to ensure that vaccine is used within 6 hours once drawn up
- filling out vaccine cards
- · scheduling the second dose

Pandemic Provider Enrollment

- 1. Complete Pandemic Enrollment application in GRITS
- 2. Complete required training and upload completion certificates
- 3. Enrollment team reviews applications for completeness
- 4. Immunization Regional Consultant (IRC) schedules a site visit
- 5. Enrollment is finalized and provider is assigned a Pandemic PIN
- 6. Providers register in Vaccine Management System
 - Ordering
 - o Inventory
 - Administration process

GA DPH

134

Vaccine Ordering

- For questions about orders or access to the Vaccine Management System:
- email DPH-COVID19vaccine@dph.ga.gov or call (888) 920-0165
- Provider Technical Support
- GRITS Hotline (Technical/IT questions): 866-483-2958 or email at <u>dph-gaimmreg@dph.ga.gov</u>
- Provider Support (VMS functional/IT questions and provider enrollment questions): 888-920-0165 or email <u>DPH-</u> <u>COVID19vaccine@dph.ga.gov</u>

6/24/22

135

COVID-19 Vaccine Reporting

- COVID vaccination records must be submitted to the Vaccine Management System within 24 hours of administration
- Submit daily inventory totals to CDC VaccineFinder.org
- 3231 forms will not populate COVID-19 vaccines as they are not a school requirement.
- Please Note: If facility submits vaccination records through EMR system, all records must be submitted using the eligibility code "COVID Specific." COVID Specific is coded as V07 for electronic interfaces.

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136

135

Vaccine Communications – Provider Portal, GA DPH

When new information is available, the DPH Immunization team will send out communication to all Pandemic Providers



Pandemic Provider Enrollment Contact Information

Contact	Email
General COVID-19 vaccine questions VMS access/reporting questions	DPH-COVID19Vaccine@dph.ga.gov
Office of Immunization Sheila Lovett, Immunization Program Director	Sheila.Lovett@dph.ga.gov
GRITS/Reporting Questions Nikki Griffin, Immunization Registry Manager	<u>Nikki.Griffin@dph.ga.gov</u>
Preparation/Administration Questions Tracy Dabbs, Emergency Preparedness Pharmacist	<u>Tracy.Dabbs@dph.ga.gov</u>
Preparation/Administration Questions; Addressing vaccine hesitant patients Alexander Millman, Chief Medical Officer	<u>Alexander.Millman@dph.ga.gov</u>

138



139

				CPT Codes			
Vaccine Product Information	Vaccine Manufacturer	Product	1 st Dose Admin	2 nd Dose Admin	3 rd Dose Admin	Booster Admin	Patient Age
SARS-CoV-2 (Coronavirus disease [COVID- 19]) vaccine, mRNA-LNP, spike protein, PF, 30 mcg/ 0.3mL dosage, diluent reconstituted, for IM use	Pfizer, Inc	91300	0001A	0002A	0003A	0004A	≥12 years
SARS-CoV-2 (coronavirus disease [COVID- 19]) vaccine, mRNA-LNP, spike protein, PF, 30 mcg/0.3 mL dosage, tris-sucrose formulation, for IM use	Pfizer, Inc	91305 🗡	0051A	0052A	0053A	0054A	
SARS-CoV-2 (coronavirus disease [COVID- 19]) vaccine, mRNA-LNP, spike protein, PF, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for IM use	Pfizer, Inc	91307 🗡	0071A	0072A	N/A	N/A	5-11 years
SARS-CoV-2 (Coronavirus disease [COVID- 19]) vaccine, mRNA-LNP, spike protein, PF, 100 mcg/0.5mL dosage, for 1M use	Moderna, Inc	91301	0011A	0012A	0013A	N/A	≥18 years
SARS-CoV-2 (coronavirus disease [COVID- 19]) vaccine, DNA, spike protein, chimpanzee adenovirus Oxford 1 (ChAdOx1) vector, PF, 5x10 ⁴⁰ viral particles/0.5mL dosage, for 1M use	AstraZeneca, Plc	91302	0021A	0022A	N/A	N/A	
SARS-CoV-2 (coronavirus disease [COVID- 19]) vaccine, DNA, spike protein, adenovirus type 26 (Ad26) vector, PF, 5x1010viral particles/ 0.5mL dosage, for IM use	<u>lanssen</u>	91303	0031A	N/A	N/A	N/A	≥18 years
SARS-CoV-2 (coronavirus disease (COVID- 19)) vaccine, recombinant spike protein nanoparticle, saponin-based adjuvant, PF, 5 mcg/0.5 mL dosage. for IM use	Novavax, Inc	91304	0041A	0042A	N/A	N/A	

Billing for Pfizer Vaccine (Needs update for Pfizer and Moderna)

- Pfizer Vaccine ADULT 91300 zero charge PEDIATRIC 91307- zero charge
- Pfizer Dose 1 admin 0001A Medicare rate \$40.00 PEDIATRIC DOSE 1 ADMIN 0071A
- Pfizer Dose 2 admin 0002A Medicare rate \$40.00 PEDIATRIC DOSE 2 ADMIN 0072A
- Link to Z.23

142

• When adding to well visit use the 25 modifier

141

Reimbursement for COVID-19 vaccines

COVID-19 Vaccine Administration Free Increase - Effective April 1, the Georgia Department of Community Health the COVID-19 vaccine administration fee is now \$40.00 per dose for category of services: outpatient hospital, physician, physician assistant, midwife nurse, FQHCs, hospital-based rural health center, freestanding rural health center, advanced nurse practitioner, and diagnostic screening & preventative services.

	Vaccine Name	Code	Description	DCH FFS Reimbursement
	Pfizer-BioNTech COVID-19 Vaccine	0001A (1st dose) 0002A (2nd dose)	91300 - Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (Coronavirus diseases [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg0.3mL dosage, diluent reconstituted, for intramuscular use	1x xy 10 2x 43 10
	Moderna COVID-19 Vaccine	0011A (1st dose) 0012A (2nd dose)	91301 Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (Coronavirus diseases (COVID-19)) vaccine, mRNA-LNP, syske protein, preservative free, R0M-LNP, dosage, for intramuscular use	1st ac 40 2n 4 10
	Janssen Covid-19 Vaccine	0031A (single dose)	91303 - Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (Coronavirus diseases [COVID-19]) vaccine, DNA, spike protein, adenovirus type 26 (AdB6) vector, preservative free, Sx1010 virul particles0.5mL dosage, for intramuscular use	Sing. ve \$10
6/24/22				

3rd dose of COVID-19 vaccine

- Medicaid Opens Administration Codes for 3rd Dose: As of Aug 12, the Ga. Dept. of Community Health will permit a third dose of the Pfizer and Moderna COVID-19 vaccines for individuals who have undergone solid organ transplantation, or those who are diagnosed with conditions that are considered to have an equivalent level of immunocompromise.
- Vaccine administration of these vaccines is \$40.00

3rd dose of COVID-19 vaccine (2)

- Pfizer CPT Code 91300 vaccine in individuals 12 years age or older per the following administration codes:
 0001A 1st dose; 0002A 2nd dose; and 0003A 3rd dose.
- Moderna CPT Code 91301- vaccine for in individuals 18 years of age or older per the following administration codes:
 0011A – 1st dose;0012A – 2nd dose;0013A – 3rd dose



145



146

Preventive Medicine Counseling Code

	Messag	Dear Providers: Effective July 1, 3021, the Toppartment of Community Health (DCH) updated the Georgia Medicald Management Information System (GAMARS), with the Stormag processing code SH421. Preventive Medicine Counseling. Opening of code SH421 will allow existing providers to counsel patients on the benefits of COVID-19 vaccutation. If you balled cannot use of the SH421 that were affected by this implementation and your claims denied, the Department of Community Health (DCH) and Gameel Technologies will reprocess these claims automatically						
		Procedure Code	Description	Reimbursement				
		For other questions, please of We apologize for any income	contact the Gainwell Technologies Call Ce enience this may have caused your facilit	nter at (770) 325-9600 or contact us at y. Thank you for your continued particip	www.mmis.geogia.gov. ation in the Georgia Medicaid program.			
	Effective Date	09/24/2021						
	Sent Date	09/24/2021						
6/24/22								









Vaccine Administration Best practices – Route, Dose, Site, Needle Size



How to administer IM and SC vaccine injections



the possibility of:





154



Improper

Immunization

Administration

Practices with Any Vaccine

OURCE: CDC OURCE: IMMUNIZATION ACTION COALITION





/ CDC FD/A

Monitoring Vaccine Safety



ubmit a VAERS report online. The report must be completed online and ubmitted in one sitting and cannot be saved and returned to at a later time. ur information will be erased if you are inactive for 20 minutes; you will ceive a warning after 15 minutes.

Option 2 - Report using a Writable PDF Form

Download the Writable PDF Form to a computer. Complete the VAERS report offline if you do not have time to complete it all at once. Return to this page to upload the completed Writable PDF form by clicking here. If you need further assistance with reporting to VAERS, please email info@VAERS.org or call 1-800-822-7967.

- FDA and Vaccine Data Link Safety Project
- VERP: Vaccine Error Reporting System

✓ On-line reporting at http://verp.ismp.ord ✓ Report even if no adverse events associated with incident

✓ Will help identify sources of errors to help develop prevention strategies

157

158

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</u> 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
- 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



For vaccinated persons

- Uses voluntary smartphone-based text messaging and web surveys to provide personalized health check-ins after receiving a COVID-19 vaccination
- Information sheet provided at time of vaccination to every person
- Simple to register, only takes 1-2 minutes to answer each text message request
- Need help?

160

- Call 800-CDC-INFO
- Open 24 hours, 7 days a week

SOURCE:v-safe

Vaccine Communication

161



How to Talk with Parents about COVID-19 Vaccination

How to Talk with parents about COVID-19 vaccination

162

AAP and Greater Than COVID



THE CONVERSATION / LA CONVERSACIÓN expands to address information needs about the COVID-19 vaccines available to children 12 and older and the status of vaccines for younger children. Produced by KFF under its Greater Than COVID public information response, this campaign is presented with the American Academy of Pediatrics. The new videos join the expansive living video library featuring Black and Latinx health care workers answering common questions on the COVID vaccines (available in English and Spanish). YouTube/Google, Facebook, Twitter and Pinterest are supporting distribution.



Anti-Vaccine Movement Sends confusing & conflicting information

• Uses stories, personal statements, and books to play on the emotional side of concerned parents/patients

Encourage parents/patients to:

- Get the facts
- Consider the source





VitalTalk COVID-Ready Communication Playbook



- Persons holding extreme negative views on vaccines are unlikely to be swayed
- These skills outlined here are designed to address people who are not sure or are deciding
 - Start with open-ended questions that do not assume vaccine acceptance
 - Acknowledge patient concerns without judging
 - Avoid criticizing the patient's information sources; cite your experience and/or point them to high quality sources
 - Show awareness of your status as a messenger
 - · Link vaccine acceptance to the patient's hopes and goals

SOURCE:VITALTALK

166

165

Changing the Covid Conversation



Resources for Factual & Responsible Vaccine Information



Additional Resources

- <u>CDC COCA Slides What Clinicians Need to Know About</u> <u>Adolescent Pfizer Vaccine Administration</u>
- <u>Pfizer EUA Fact Sheet</u> for caregivers- last revised 10/20/21 may be updated again. No VIS for EUA vaccine.
- Pfizer fact sheet CDC website
- HRSA Uninsured Claims
- Pfizer-BioNTech COVID-19 Beyond Use Date/Time (BUD) <u>Tracking Label (cdc.gov)</u>

169



169



Answer

YES.

- COVID-19 vaccines may now be administered without regard to timing of other vaccines.
- If multiple vaccines are administered at a single visit, administer each injection in a different injection site.
- Administer the COVID-19 vaccines and vaccines that may be more likely to cause a local reaction (e.g., tetanus-toxoidcontaining and adjuvanted vaccines) in
 67442 different limbs, if possible.

Which children are eligible to receive an additional dose of COVID-19 vaccine? (Choose the correct answer)

- All children and adolescents 5 years and older. Administer the additional dose 5 months after completion of the Pfizer vaccine series.
- · Children and adolescents 5 years and older who are moderately or severely immunocompromised. Administer the dose 5 months after completing the Pfizer vaccine series.
- All children and adolescents 5 years and older. Administer the additional dose 1 month after completion of the Pfizer vaccine series.
- · Children and adolescents 5 years and older who are moderately or severely immunocompromised. Administer the dose 1 month after completing the Pfizer vaccine series.

173

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- All children and adolescents 5 years and older. Administer the additional dose 1 month after completion of the Pfizer vaccine series.
- CORRECT: Children and adolescents 5 years and older who are moderately or severely immunocompromised. Administer the dose 1 month after completing the Pfizer vaccine series.

174

Should someone who has had COVID-19 disease get the vaccine?

- People with known current SARS-CoV-2 infection should hold off on any COVID-19 vaccination, including booster vaccination, at least until they have recovered from the acute illness (if symptoms were present) and that they have met criteria to stop isolation.
- People who recently had SARS-CoV-2 infection may consider delaying a primary series dose or their first or second COVID-19 vaccine booster dose by 3 months from symptom onset or positive test (if infection was asymptomatic).
- <u>Studies</u> have shown that increased time between infection and vaccination may result in an improved immune response to vaccination. Also, a low risk of reinfection has been observed in the weeks to months following infection.
- Individual factors such as the risk of COVID-19 severe disease, COVID-19 community level, or characteristics of the predominant SARS-CoV-2 strain should be taken into account when determining whether to delay getting a COVID-19 vaccination after infection.
- · Wear your mask, and follow all precautions if you chose to wait.

https://www.cdc.gov/vaccines/covid-19/clinical-considerations/covid-19-vaccines-us.html

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

FAQS

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.
- Will persons be required to show proof of vaccination at work or scho Some employers may require this.

SOURCE: CHOP SOURCE: AAP

What is mRNA?

FDIC 2022

FAQS (2)

 Can you get the disease from the vaccine?

 No, but it may take a few weeks for the body to develop immunity so if exposed to the virus during that period of time, the person could become infected.

Questions? Contacts for more immunization information and resources! National Center for Immunization and Respiratory Diseases, CDC E-mail NIPInfo@cdc.gov 800.CDC.INFO Hotline Website http://www.cdc.gov/vaccines Georgia Immunization Program E-mail DPH-Immunization@dph.ga.gov 404-657-3158 Hotline Website http://dph.georgia.gov/immunization-section Immunization Action Coalition E-mail Phone 651.647.9009 Website

178



179