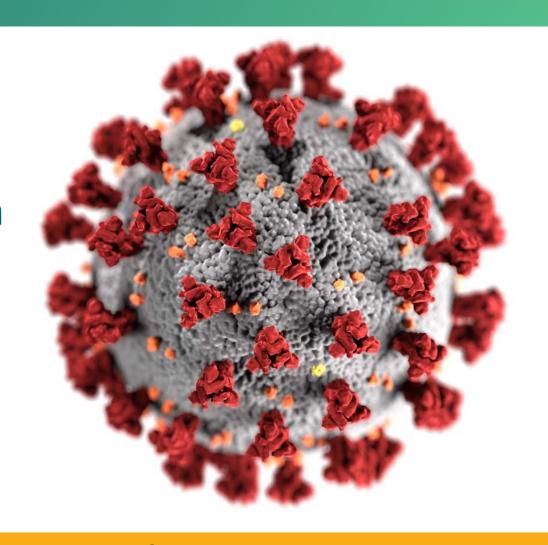
Benefits and Risks of COVID-19 Vaccines: Work Group Interpretation

Sarah Mbaeyi, MD MPH Centers for Disease Control and Prevention July 22, 2021

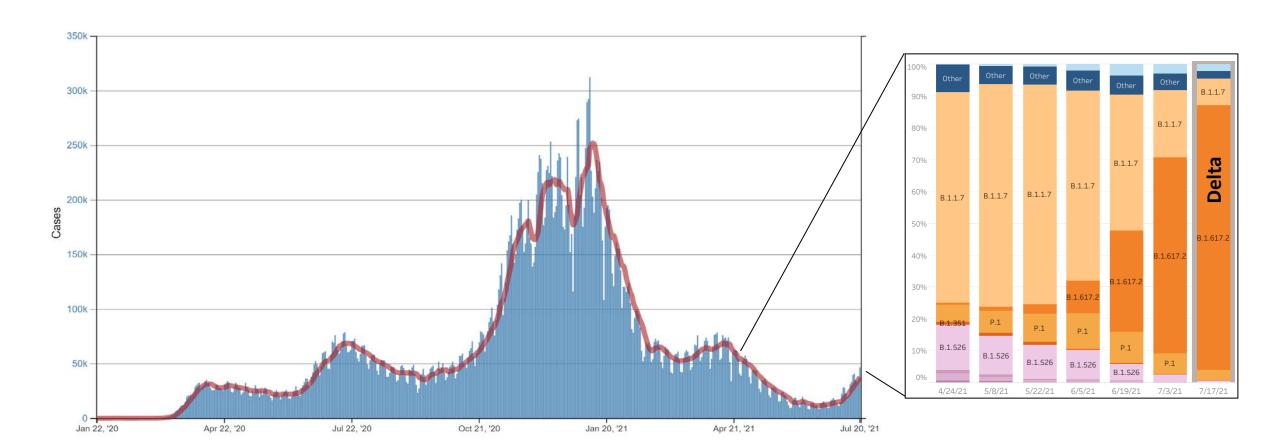




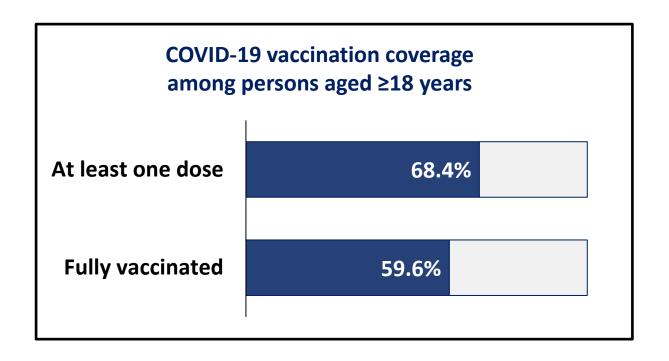
cdc.gov/coronavirus

After a period of decline, COVID-19 cases rising again

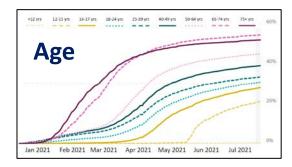
Majority of cases due to Delta variant

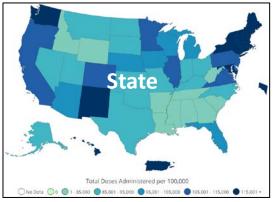


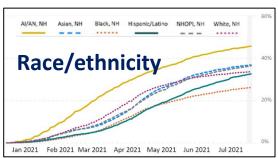
Over two-thirds of U.S. adults have received at least one COVID-19 vaccine dose



Coverage varies by



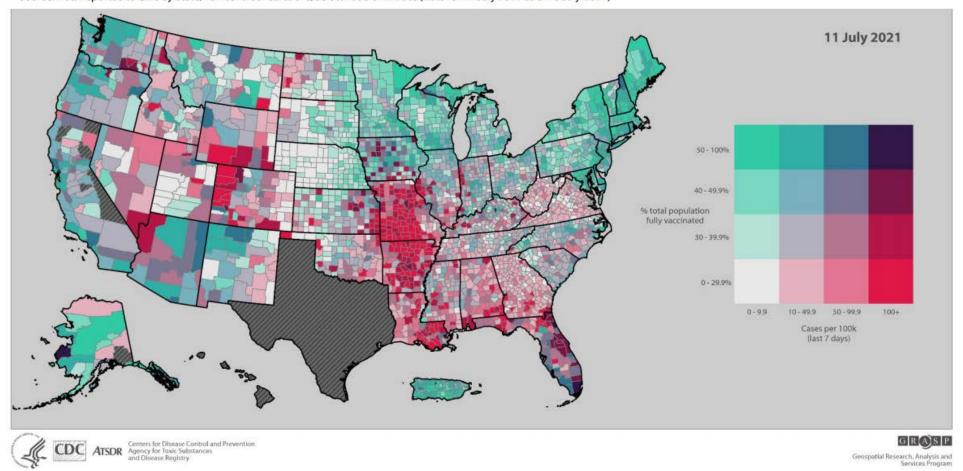




Low COVID-19 vaccination coverage puts individuals and communities at risk

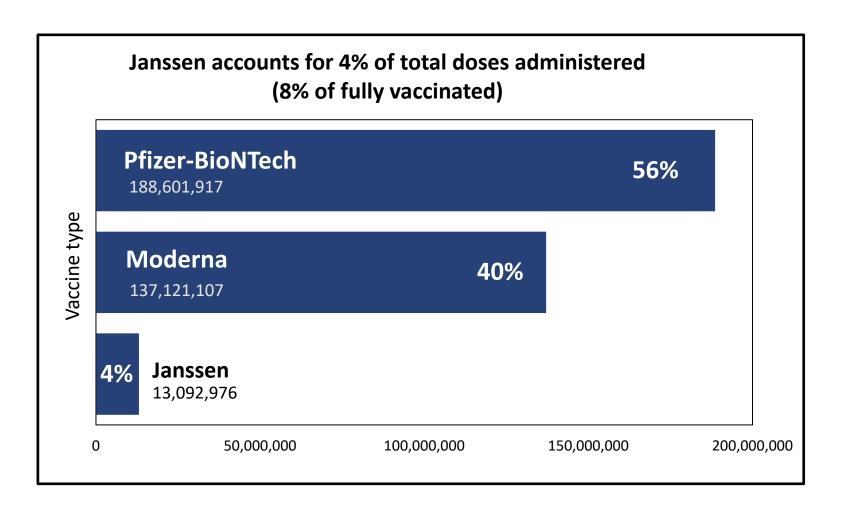
COVID-19 Reported Cases per 100,000 Population (last 7 days) and % of Total Population Fully Vaccinated

Source: Data reported to CDC by State/Territorial Jurisdictions/Select Federal Entities (Data for 11 July 2021 as of 13 July 2021)

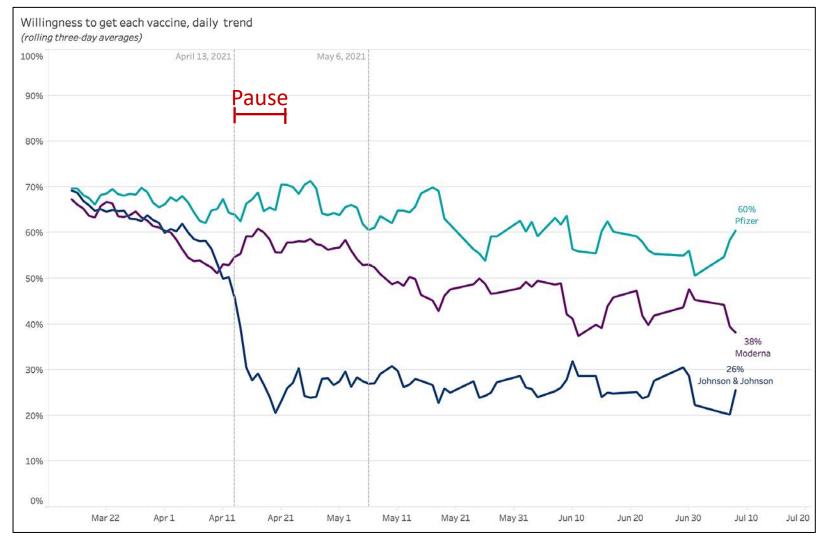


Note: Counties with no data/missing data are indicated in gray diagonal stripes (n=274 counties).

mRNA vaccines account for majority of doses administered in the United States



Willingness to receive Janssen vaccine remains lower since the April pause



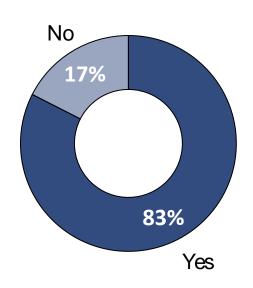




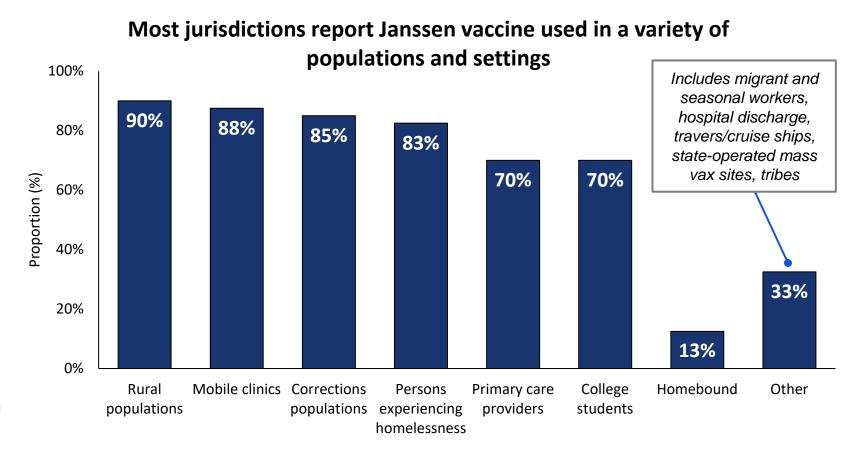
Janssen vaccine: Patient choice, access, and vaccine equity

Findings from survey of jurisdictions – July 16, 2021

Most vaccination sites offer more than one type of vaccine



Responding to question: Do most of the vaccinations sites in your jurisdiction offer more than one type (Pfizer, Moderna, Janssen) of COVID vaccine?



Responding to question: Which populations or settings in your jurisdiction are utilizing the Janssen vaccine?

Benefits of COVID-19 vaccines are unequivocal

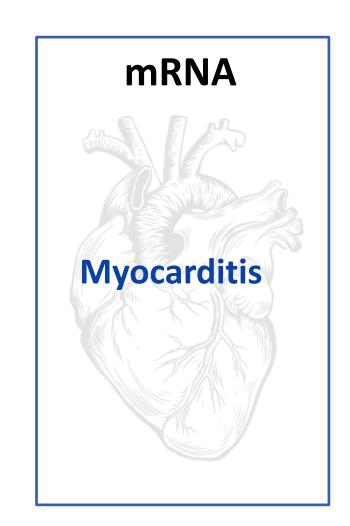
- All COVID-19 vaccines currently authorized in the United States are effective against COVID-19, including serious outcomes like severe disease, hospitalization, and death
- Available evidence suggests that currently authorized vaccines offer protection against known circulating variants, including the Delta variant
- A growing body of evidence indicates that people fully vaccinated with an mRNA vaccine are less likely to have asymptomatic infection or to transmit SARS-CoV-2 to others

Rare serious adverse events have been reported after COVID-19 vaccination

Janssen

Thrombosis with thrombocytopenia syndrome (TTS)

Guillain-Barré syndrome (GBS)



Benefits of COVID-19 vaccination continue to outweigh risks

For every million doses of vaccine given with U.S. exposure risk and hospitalization rates from June 19, 2021

		Ja	nssen COV	ID-19 vaccine				mRNA	COVID-19 va	ccine			
Age	hos	nted CO\ pitalizations/ missions/	ons/	GBS Cases	TTS Cases		<u>ho</u>	ented CO spitalizati Imissions	ons/	Myocarditis Cases			
FEMALES													
18-29 years	700	50	5	1	4-5		750	50	5	3-4			
30-49 years	900	140	20	6-7	8-10		950	140	20	1-2			
50-64 years	1600	350	120	7-8	3-4		1,700	375	125	1			
65+ years	5,900	1250	840	8-10	0		6,200	1300	900	<1			
MALES													
18-29 years	300	60	3	2	2-3		300	60	3	22-27			
30-49 years	650	150	25	7-8	1-2		700	160	25	5-6			
50-64 years	1,800	480	140	14-17	1-2		1,900	500	150	1			
65+ years	11,800	3300	2300	7-8	0		12,500	3500	2400	<1			

Work Group interpretation

Benefits and risks of COVID-19 vaccination

- Vaccination continues to be critical during this period of rapidly increasing cases and spread of variants of concern
- The reported adverse events (TTS, GBS, and myocarditis) are potentially serious and should be transparently communicated with the public
- Even with new GBS safety signal, benefits of Janssen vaccination continue to outweigh risks

Work Group interpretation

Additional considerations for use of Janssen COVID-19 Vaccine

- In addition to benefit-risk profile, the Work Group discussed:
 - Importance of patient choice in vaccine product
 - Access to vaccines for disproportionately affected populations
 - Confidence in patients and providers to understand benefits and risks of vaccines and make informed decisions
 - Need for communication and educational materials
 - Implications of any change in vaccine recommendations on global vaccine confidence and use

Work Group interpretation

Use of Janssen COVID-19 Vaccine after reports of GBS in vaccine recipients

- Work Group reaffirms that all eligible persons should receive a COVID-19 vaccine
- Patients and providers should be aware of both the benefits and risks of COVID-19 vaccination when choosing a vaccine product
- Work Group members expressed strong support for continued use of Janssen vaccine according to the current recommendations

Updates to CDC Clinical Considerations

- Persons with a prior history of GBS:
 - Can receive any of the authorized vaccines
 - Given possible association between Janssen vaccine and GBS, patients with a history of GBS and their clinical team should discuss the availability of mRNA vaccines to offer protection against COVID-19
- Information on signs and symptoms of GBS

Interim Clinical Considerations for Use of COVID-19 Vaccines Currently Authorized in the United States Interim considerations: preparing for the potential management of anaphylaxis after COVID-19 vaccination Reference Materials Get Email Updates To receive email updates about Summary Document for Interim Clinical Considerations this page, enter your email Summary Document for Interim Clinical Considerations poster [8] Email Address COVID-19 Vaccine Administration Errors and Deviations D What's this? COVID-19 Vaccine Administration Errors and Deviations Poster D Summary of recent changes (last updated July 16, 2021): Updated considerations regarding mRNA vaccine dosing intervals

- Updated considerations for immunocompromised people.

COVID-19 vaccination is recommended for everyone 12 years and older for the prevention of coronavirus disease 2019 (COVID-19) in the United States. The Advisory Committee on Immunization Practices (ACIP) has issued interim recommendations for the use of

- Pfizer-BioNTech COVID-19 vaccine (in persons ages 12–15 years and ages ≥16 years)
- Moderna COVID-19 vaccine (in persons ages ≥18 years)
- Janssen (Johnson & Johnson) COVID-19 vaccine (in persons ages ≥18 years)

These clinical considerations provide additional information to healthcare professionals and public health officials on use of COVID-19 vaccines.

The Advisory Committee on Immunization Practices' (ACIP) update on the use of mRNA COVID-19 vaccines after reports of myocarditis or pericarditis in vaccine recipients

On June 23, 2021, ACIP met to review reported cases of myocarditis or pericarditis in mRNA COVID-19 vaccine (Pfizer-BioNTech and Moderna) recipients. Cases of myocarditis or pericarditis have occurred predominantly in males aged 12-29 years, with symptoms typically developing within a few days after receipt of the second dose of vaccine.

ACIP reviewed the benefits and risks of mRNA COVID-19 vaccines in the United States and determined that the benefits of using mRNA COVID-19 vaccines under the Food and Drug Administration's (FDA) Emergency Use Authorization (EUA) clearly outweigh the risks of myocarditis and pericarditis in all people aged 12 years or older. The FDA updated the EUA Fact Sheet for Healthcare Providers Administering Vaccine (Vaccination Providers) and the Fact Sheet for Recipients and Caregivers for Pfizer-BioNTech COVID-19 vaccine [del and Moderna COVID-19 vaccine [del to include information about the occurrence of myocarditis or pericarditis in some people following use of the vaccine. Based on the benefit-risk assessment. COVID-19 vaccination continues to be recommended for everyone aged 12 years and older under the

Updates to additional clinical resources



Prevaccination Checklist for COVID-19 Vaccines



For vaccine recipients:



Janssen COVID-19 Vaccine (Johnson & Johnson)

Standing Orders for Administering Vaccine to Persons 18 Years of Age and Older

Note: For more information/quidance, please contact

the immunization program at your state or local health department or the appropriate state body (e.g., state board

To reduce morbidity and mortality from coronavirus disease

Advisory Committee on Immunization Practices (ACIP).

2019 (COVID-19) by vaccinating persons who meet the criteria established by the Centers for Disease Control and Prevention's

Where authorized under state law, standing orders enable eligible nurses and other healthcare professionals (e.g., pharmacists) to assess

section below without the need for clinician examination or direct

order from the attending provider at the time of the interaction.

Assess persons 18 years of age and older for vaccination with Janssen COVID-19 Vaccine based on the following criteria:

Offer another FDA-authorized COVID-19 vaccine (i.e., mRNA

mediated syndrome characterized by thrombosis and

Has not completed a COVID-19 vaccination series,

The Janssen COVID-19 Vaccine requires 1 dose.

No additional doses are needed.

Women aged 18-49 years: Inform women of the increased risk of

thrombosis with thrombocytopenia syndrome (TTS) in their age group and about the availability of other authorized vaccines

vaccine) to persons with a history of an episode of an immune-

thrombocytopenia (e.g., heparin-induced thrombocytopenia) if it has

heen 90 days or less since their illness resolved. After 90 days, natients

may be vaccinated with any FDA-authorized COVID-19 vaccine.8

Note: Persons at risk for or with a history of other thrombosis

not associated with thrombocytopenia can receive any FDA-

If the recipient has received 1 previous dose of an mRNA

vaccine, the same brand should be administered for the

In situations where the first dose of an mRNA COVID-19 vaccine

was received but the patient is unable to complete the series

with either the same or different mRNA COVID-19 vaccine

interval of 28 days from the mRNA COVID-19 vaccine dose.

under the supervision of a healthcare provider experienced

referral to an allergist-immunologist. See footnote for further

persons with a contraindication to mRNA COVID-19 vaccines.‡

information on administering Janssen COVID-19 Vaccine to

in the management of severe allergic reactions. Consider

However, vaccination should be done in an appropriate setting

(e.g., due to contraindication) consideration may be given to vaccination with the Janssen COVID-19 Vaccine at a minimum

and vaccinate persons who meet the criteria in the "Procedure"

of medical/nursing/pharmacy practice).

(i.e., mRNA vaccines).4

authorized vaccine.

regardless of brand.

05/15/2021 CS322139-E

 For people who received a COVID-19 vaccine that is not currently authorized in the United States, guidance can be found at: https://www.cdc.gov/vaccines/considerations.html#not-authorized-vaccines

- Janssen COVID-19 Vaccine may be coadministered with other vaccines - on the same day, as well as within 14 days of each other.
- Defer vaccination with Janssen COVID-19 Vaccine for at least 90 day for persons who received passive antibody therapy (monoclonal antibodies or convalescent plasma) as part of COVID-19 treatment.
- Screen for contraindications and precautions

Contraindications

- Severe allergic reaction (e.g., anaphylaxis) to a component of Janssen COVID-19 Vaccine
- Immediate allergic reaction[†] of any severity or known (diagnosed, allergy to a component of the vaccine (see Table 1 in this document for a list of ingredients in COVID-19 vaccines)

Note: Persons who have a contraindication to Janssen COVID-19 Vaccine may be able to receive an mRNA COVID-19 vaccine (see footnote).[‡]

Precaution

- Most people determined to have a precaution to a COVID-19 vaccine at their appointment can and should be administered vaccine.
- History of an immediate allergic reaction of any severity to any other vaccine or injectable therapy (i.e., intramuscular, intravenous, or subcutaneous vaccines or therapies)
- This includes persons with a reaction to a vaccine or injectable therapy that contains multiple components, one of which is polysorbate or another vaccine component, but for whom it is unknown which component elicited the immediate allergic reaction.
- People with a contraindication to an mRNA COVID-19 vaccine have a precaution to the Janssen COVID-19 Vaccine (see footnote).[±]
- Moderate to severe acute illness

"Educational materials are available at: https://www.cdc.gov/coronavirus/2019-ncov/vaccines/ safety/JJUpdate.html

"Consultation with an altergist-immunologist should be considered to help determine if the patient can safely receive vaccination. Healthcare providers and health departments may also request a consultation from the <u>Clinical Immunitation Safety Assessment COVID/Oxy Project</u>. Vaccination of these individuals should only be done in an appropriate setting under the supervision of a healthcare provider experienced in the management of severa altergist reactions.

- People with a contraindication to mRNA COVID-19 vaccines (including due to a known PEG allergy) have a precaution to Janssen COVID-19 vaccination. People who have previously received an mRNA COVID-19 vaccine dose should wait at least 28 days to receive Janssen COVID-19 Vaccine.
- People with a contraindication to Janssen COVID-19 Vaccine (including due to a known polysorbate allergy) have a precaution to mRNA COVID-19 vaccination.

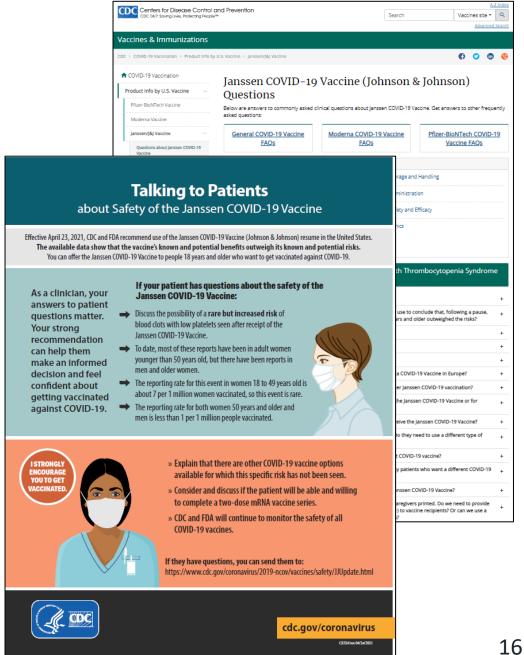
When deciding whether to coadminister COVID-19 vaccine and other vaccines, providers should consider whether the patient is behind or at risk of becoming behind on recommended vaccines, They should also consider the patient's risk of vaccine-preventable diseases (e.g., during an outbreak) and the reactogenicity profile of the vaccines.

'For the purpose of this guidance, an immediate allergic reaction is defined as any hypersensitiv related signs or symptoms, such as urticaria, angioedema, respiratory distress (e.g., wheezing, stridor), or anaphylaxis that occur within 4 hours following exposure to a vaccine or medication.

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n			
nentation? (yes/no)			
ntment with epinephrine or EpiPen* or that caused you welling, or respiratory distress, including wheezing.)			
e following:			
ations, such as laxatives and			
d tablets, and intravenous steroids			
ther than COVID-19 vaccine)			
eatment with epinephrine or EpiPen* or that caused hives, swelling, or respiratory distress,			
vaccine or injectable therapy such as food	d, pet, venom	,	
ies or convalescent serum			
IS-C or MIS-A) after a COVID-19 infection			
cer)			
IT)			

Planned CDC communication materials

- Updated materials for providers on talking to patients about Janssen vaccine safety
- Updated frequently asked questions



Discussion

- What is the ACIP's interpretation of the benefits and risks of COVID-19 vaccines?
- Does ACIP agree with the Work Group's interpretation that Janssen COVID-19 Vaccine should continue to be used according to the current recommendations?