COVID-19 Vaccine Safety Technical (VaST) Work Group

Safety Assessment

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Advisory Committee on Immunization Practices
December 16, 2021

COVID-19 Vaccine Safety Technical (VaST) Work Group

Objectives

- Review, evaluate, and interpret post-authorization/approval COVID-19 vaccination safety data
- Serve as the central hub for technical subject matter expertise from federal agencies conducting post-authorization/approval safety monitoring
- Advise on analyses, interpretation, and presentation of vaccine safety data
- Provide updates to the ACIP COVID-19 Vaccines Work Group and the entire
 ACIP on COVID-19 vaccine safety

VaST meetings

December 21, 2020 – present: 45 meetings to review vaccine safety data

VaST meeting - April 12, 2021 First review of Central Venous Sinus Thrombosis (CVST) with thrombocytopenia

- 6 cases of CVST with thrombocytopenia identified as rare but serious adverse event following Janssen COVID-19 vaccine
- Risk factors for CVST with thrombocytopenia not well understood
- Timely and transparent communication with healthcare providers and the public is crucial to maintain confidence in the COVID-19 vaccination program

HAN Communication April 13, 2021

Cases of Cerebral Venous Sinus Thrombosis with Thrombocytopenia after Receipt of the Johnson & Johnson COVID-19 Vaccine





- Recommendations for Clinicians: diagnosis and treatment
 - Evaluate patients with a screening PF4 enzyme-linked immunosorbent (ELISA) assay as would be performed for autoimmune HIT. Consultation with a hematologist is strongly recommended.
 - Do not treat with heparin, unless HIT testing is negative
- Recommendations for Public Health: case reporting through VAERS
 - Encourage healthcare providers and the public to report all serious and life-threatening adverse events and deaths following receipt of COVID-19 vaccines to VAERS
- Recommendations for the Public: clinical signs and symptoms to monitor
 - Contact healthcare provider, or seek medical care if you develop severe headache, abdominal pain, leg pain, or shortness of breath within three weeks after vaccination with the J&J COVID-19 vaccine

ACIP meetings – April 14 and 23, 2021

April 14

- Reviewed cases of CVST with thrombocytopenia after COVID-19 vaccination
- Discussed need for additional information to support evidence-based decision making, including
 - Age and gender-specific risk estimates
 - Evaluation of the benefit-risk balance of using Janssen vaccine in specific subgroups

ACIP meetings – April 14 and 23, 2021

April 23

- Risk of TTS appears to be highest in females <50 years</p>
 - 15 cases reported; rare but serious condition
 - Other risk factors for TTS not well established yet
- Risk mitigation strategies
 - Minimize exposure in high-risk populations
 - Increase awareness & ensure timely diagnosis and management of TTS
 - Educate patients about benefits and risks of available vaccines
- VaST will continue to monitor TTS, other thromboembolic disease, and thrombocytopenia in all available vaccine safety surveillance systems
- VaST will update the ACIP COVID-19 vaccines workgroup, ACIP secretariat and ACIP on a regular basis

Talking to Patients

about Safety of the Janssen COVID-19 Vaccine

Effective April 23, 2021, CDC ar **The available data shov** You can offer the Jans:

As a clinician, you answers to patien questions matter. Your strong recommendation can help them make an informed decision and feel confident about

What do I need to know about Johnson & Johnson's Janssen COVID-19

Vaccine (J&J/Janssen) now?

There is a risk of a rare but serious condition involving clots and low platelets in people after receiving the J& COVID-19 Vaccine. **This risk is very low.**

This problem is rare and happened in about 7 per million vaccinated women between 18 and 49 years.

For women 50 years and older and men of any age, th is even more rare.

This problem has not been linked to the other two COV vaccines (Pfizer-BioNTech and Moderna).





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Morbidity and Mortality Weekly Report

April 27, 2021

Updated Recommendations from the Advisory Committee on Immunization Practices for Use of the Janssen (Johnson & Johnson) COVID-19 Vaccine After Reports of Thrombosis with Thrombocytopenia Syndrome Among Vaccine Recipients — United States, April 2021

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On February 27, 2021, the Food and Drug Administration (FDA) issued an Emergency Use Authorization (EUA) for

vaccine. The COVID-19 Vaccines Work Group, comprising experts in infectious diseases, vaccinology, vaccine safety, public

Ongoing VaST review of TTS and Janssen COVID-19 vaccination, May through December 2021

- VaST meetings
 - Regular updates on TTS data from VAERS, VSD and other safety systems
- VaST assessments of Janssen J&J COVID-19 vaccination safety represented to ACIP*
 - May 12 (focus on TTS) and July 22 (focus on GBS)

VaST assessment – December 6, 2021

- Through August 2021, 54 TTS cases and 9 deaths reported following Janssen COVID-19 vaccination in the United States
- The TTS case reporting rate following Janssen COVID 19 vaccination is higher than previous estimates in men as well as women, and in wider age range
- Follow-up investigations have provided more evidence for relationship between
 Janssen COVID-19 vaccination and TTS and associated severe outcomes
- VaST recognizes the public health benefits of the Janssen COVID-19 vaccine;
 however, the additional TTS cases and reported deaths are concerning
- VaST felt that the new data on TTS risk need to be put into context of a benefitrisk assessment, and should be presented to the ACIP COVID-19 Vaccines Work Group and to ACIP

VaST Members

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