COVID-19 Vaccine Safety Technical (VaST) Subgroup

Discussion and Interpretation

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Advisory Committee on Immunization Practices
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Vaccine Safety Surveillance in the U.S.

- Well-established vaccine safety surveillance systems remain the cornerstone of COVID-19 vaccine safety monitoring in the U.S.
- Novel approaches to surveillance have enriched our understanding of COVID-19 vaccine safety in the early phases of vaccine deployment
- VaST meets weekly to review all available data and to ensure a coordinated approach across multiple safety surveillance systems

VaST Discussion and Interpretation

- Consistent with clinical trial data, local and systemic reactions are commonly reported following vaccination in V-SAFE and VAERS
- During the early phase of the U.S. vaccination program (<3 months)
 - Rely on data reported to VAERS
 - Limitations numerator only data; descriptive; reporting bias
- During the later phase of the U.S. vaccination program
 - Rely on data from population-based surveillance systems (e.g., VSD,
 CMS, Genesis) to understand the risk of AESIs following vaccination
 - Numerator and denominator data; comparison groups available

VaST Discussion and Interpretation

- Anaphylaxis following COVID-19 vaccination is being closely monitored
 - Estimated rates currently range from 2.8 to 5.0 per million doses (using Brighton Collaboration case definition)
- In response, CDC has recommended risk mitigation strategies, including:
 - Screening for risk prior to vaccination
 - Monitoring for symptoms post-vaccination
 - Early recognition and management of anaphylaxis on-site
- Provider and patient education ongoing by CDC and partners

Centers for Disease Control and Prevention

Morbidity and Mortality Weekly Report

Early Release / Vol. 70

January 6, 2021

Allergic Reactions Pfizer-BioNTech CO

Centers for Disease Control and Prevention

As of January 3, 2021, a tota coronavirus disease 2019 (COVI) ated deaths have been reported in term sequalae of COVID-19 over

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Morbidity and Mortality Weekly Report

January 22, 2021

Allergic Reactions Including Anaphylaxis After Receipt of the First Dose o

□ JAMA Insights | CLINICAL UPDATE

Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine

As of January 20, 2021, a total coronavirus disease 2019 (COVID-1 deaths had been reported in the Un cdc.gov/covid-data-tracker/#cases

Tom Shimabukuro, MD, MPH, MBA: Narayan Nair, MD

On December 11, 2020, the US Food and Drug Administration (FDA) issued an Emergency Use Authorization (EUA) for the Pfizer-BioNTech coronavirus disease 2019 (COVID-19) vaccine, adminis-

Multimedia

tered as 2 doses separated by 21 days. 1 Shortly after, the Advisory Committee on Immunization Practices (ACIP) issued an interim recommendation for its use.²

Notifications and reports of suspected severe allergic reactions and anaphylaxis following vaccination were captured in the Vaccine Adverse Event Reporting System (VAERS), the national

Following implementation of vaccination, reports of anaphylaxis after the first dose of the Pfizer-BioNTech COVID-19 vaccine emerged.3 Anaphylaxis is a life-threatening allergic reaction that occurs rarely after vaccination, with onset typically within minutes to hours.4

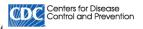


Prevaccination Checklist for COVID-19 Vaccines





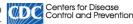
The following question any reason you should



Vaccines & Immunizations

If you answer "yes" to should not be vaccing Interim Considerations: Preparing for the Potential If a question is not clea Management of Anaphylaxis After COVID-19 Vaccination

Anaphylaxis, an acute and potentially life-th Detailed information on CDC recommendat can be found in the Clinical Considerations f



Vaccines & Immunizations

These interim considerations provide inforn following COVID-19 vaccination. Institutiona anaphylactic reaction occurs following admi

appropriate medical treatment for severe al Lab Tests to Collect Shortly After Severe Allergic Reaction/Anaphylaxis Following COVID-19 Vaccination



Appropriate medical treatment acute anaphylactic reaction occ

For Healthcare Providers

There are no specific lab tests that can definitively diagnose the cause of a severe allergic reaction (e.g., anaphylaxis) following COVID-19 vaccination. In the United States, two commercially available lab tests can be ordered by healthcare providers and processed through healthcare facilities to better characterize a severe allergic reaction.

This document provides an overview of the timing and procedure for collecting blood samples for these lab tests. These samples should only be collected after medically stabilizing a patient who has experienced a severe allergic reaction.

VaST Interpretation and Plans

- Serious AEs following COVID-19 vaccination are being closely monitored
 - Data in the U.S. and Europe suggest that case reports are consistent with all-cause mortality rates, particularly in frail, elderly individuals
- Anticipate additional vaccine safety surveillance systems will begin reporting data as we vaccinate a larger proportion of the U.S. population
- VaST will continue to update the ACIP COVID-19 vaccines workgroup, ACIP secretariat and ACIP on a regular basis

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