

# Post-Approval Observational Cohort Study to Evaluate the Safety of the COMIRNATY 2023-2024 Formula in the United States

**First published:** 03/01/2024

**Last updated:** 15/03/2024

Study

Planned

## Administrative details

### EU PAS number

EUPAS108135

### Study ID

108136

### DARWIN EU® study

No

### Study countries

☐ United States

## Study description

This study aims to answer the following research question: What is the incidence of pre-specified safety events of interest among individuals who receive the COMIRNATY 2023-2024 Formula in the United States? In Phase 1, the primary objective is to estimate the incidence of pre-specified safety events of interest following vaccination with the COMIRNATY 2023-2024 Formula compared to the incidence of these events during a control window (i.e. expected rates of these events). In Phase 2, the primary objective is to estimate the incidence of pre-specified safety events of interest among individuals who receive the COMIRNATY 2023-2024 Formula compared to individuals with no recorded vaccination with the COMIRNATY 2023-2024 Formula. The secondary objective is to estimate the incidence of pre-specified safety events of interest among individuals who receive the COMIRNATY 2023-2024 Formula compared to individuals with no recorded vaccination with the COMIRNATY 2023-2024 Formula among subgroups of individuals with concomitant administration of a non-COVID-19 vaccine, immunocompromised individuals, individuals with specific comorbidities, individuals with prior SARS-CoV-2 infection, individuals with prior COVID-19 vaccination, pregnant women, pediatric subjects, and the elderly, if sample size permits. This is a non-interventional observational study utilizing an administrative claims database in the US. Phase 1 will utilize a self-controlled risk interval (SCRI) design, and Phase 2 will utilize a matched comparative safety cohort design.

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## Study status

Planned

## Research institutions and networks

### Institutions

Pfizer

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Institution

OptumInsight Life Science, Inc.

## Contact details

### Study institution contact

Jenny Sun jenny.sun@pfizer.com

Study contact

[jenny.sun@pfizer.com](mailto:jenny.sun@pfizer.com)

### Primary lead investigator

Katie Kendrick

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Planned: 09/11/2023

Actual: 09/11/2023

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**Study start date**

Planned: 15/01/2024

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**Date of interim report, if expected**

Planned: 30/06/2024

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**Date of final study report**

Planned: 30/04/2026

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Pfizer

## Study protocol

[C4591062\\_PROTOCOL AND STATISTICAL ANALYSIS PLAN\\_V1.0\\_12DEC2023.pdf](#)  
(682.6 KB)

## Regulatory

**Was the study required by a regulatory body?**

Yes

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**Is the study required by a Risk Management Plan (RMP)?**

Not applicable

## Methodological aspects

## Study type

**Study type:**

Non-interventional study

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**Main study objective:**

To estimate the incidence of pre-specified safety events of interest following vaccination with the COMIRNATY 2023-2024 Formula compared to the incidence of these events during a control window (i.e. expected rates of these events).

## Study Design

**Non-interventional study design**

Cohort

## Study drug and medical condition

**Anatomical Therapeutic Chemical (ATC) code**

(J07BN01) covid-19, RNA-based vaccine

covid-19, RNA-based vaccine

## Population studied

**Age groups**

Infants and toddlers (28 days – 23 months)

Children (2 to < 12 years)

Adolescents (12 to < 18 years)

Adults (18 to < 46 years)

Adults (46 to < 65 years)

Adults (65 to < 75 years)  
Adults (75 to < 85 years)  
Adults (85 years and over)

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### **Estimated number of subjects**

1

## Study design details

### **Data analysis plan**

For the phase 1 SCRI design, the observed incidence rates of the pre-specified safety outcomes of interest will be estimated in the risk window and the control window. Among individuals who experience an outcome of interest, an exact conditional Poisson regression model with the natural logarithm of the person-time as the offset will be used to calculate the rate ratio and corresponding 95% confidence interval (CI) of events occurring during the risk period relative to the control period. The results from the SCRI utilizing the Optum pre-adjudicated claims database will be presented in the interim report, while results utilizing the ORD will be presented in the final report. Please see the protocol for a description of the data analysis plan for the phase 2 cohort study.

## Data management

### Data sources

**Data source(s), other**

Optum pre-adjudicated claims database United States, Optum Research  
Database United States

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**Data sources (types)**

[Administrative healthcare records \(e.g., claims\)](#)

## Use of a Common Data Model (CDM)

**CDM mapping**

No

## Data quality specifications

**Check conformance**

Unknown

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**Check completeness**

Unknown

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**Check stability**

Unknown

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**Check logical consistency**

Unknown

## Data characterisation

**Data characterisation conducted**

No