

# A Post-Authorization Safety Study of Guillain-Barré Syndrome (GBS) Following ABRYSVOTM Among Older Adults in the United States (C3671031)

**First published:** 06/10/2025

**Last updated:** 08/05/2026

Study

Planned

## Administrative details

### EU PAS number

EUPAS1000000753

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### Study ID

1000000753

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### DARWIN EU® study

No

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### Study countries

 United States

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### Study description

This non-interventional post authorization safety study (PASS) will assess the risk of Guillain-Barré Syndrome (GBS), acute polyneuropathies, and other immune-mediated demyelinating conditions following receipt of ABRYSSVO among US Medicare beneficiaries 65 years of age and older, as well as commercially insured adults aged 60-64 years, from the earliest date of vaccine availability to 31 December 2027.

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## Study status

Planned

## Research institutions and networks

### Institutions

[Pfizer](#)

**First published:** 01/02/2024

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Institution

[Analysis Group](#)

## Contact details

### Study institution contact

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Study contact

[julia.munroe@pfizer.com](mailto:julia.munroe@pfizer.com)

### Primary lead investigator

Joanne (Juan) Wu

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Planned: 02/06/2023

Actual: 02/06/2023

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### Study start date

Planned: 28/02/2026

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### Data analysis start date

Planned: 01/06/2029

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### Date of interim report, if expected

Planned: 18/12/2026

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### Date of final study report

Planned: 31/05/2030

## Sources of funding

- Pharmaceutical company and other private sector

## Study protocol

[C3671031\\_RSV VACCINE PROTOCOL AMENDMENT 4 V5.0\\_11SEP2024.pdf](#)  
(746.46 KB)

[C3671031\\_RSV VACCINE PROTOCOL AMENDMENT 5 V6.0\\_15APR2026.pdf](#)  
(858.9 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)?**

EU RMP category 3 (required)

## Other study registration identification numbers and links

C3671031

## Methodological aspects

Study type

Study type list

**Study topic:**

Human medicinal product

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**Study type:**

Non-interventional study

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**Scope of the study:**

Safety study (incl. comparative)

**Data collection methods:**

Secondary use of data

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**Study design:**

This non-interventional PASS will assess the risk of GBS, acute polyneuropathies, and other immune-mediated demyelinating conditions following receipt of ABRYSSVO among US Medicare beneficiaries 65 years of age and older, as well as commercially insured adults aged 60-64 years.

**Main study objective:**

This primary objective of the study is to estimate the incidence of GBS, acute polyneuropathies, and other immune-mediated demyelinating conditions following administration of ABRYSSVO among adults 60 years and older.

## Study Design

**Non-interventional study design**

Cohort

## Study drug and medical condition

**Medicinal product name**

ABRYSVO

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**Anatomical Therapeutic Chemical (ATC) code**

(J07BX05) respiratory syncytial virus vaccines  
respiratory syncytial virus vaccines

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**Medical condition to be studied**

Guillain-Barre syndrome

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**Additional medical condition(s)**

Prevention of respiratory syncytial virus

## Population studied

**Short description of the study population**

The study population will be US Medicare beneficiaries 65 years of age and older, and commercially insured adults 60-64 years of age captured in the IQVIA PharMetrics® Plus (PharMetrics Plus) database, who receive ABRYSVO from the earliest date of ABRYSVO availability until 31 December 2027.

Individuals will be included if they have a claim for at least one dose of ABRYSVO. For the Medicare population, individuals must have aged into Medicare and be at least 65 years of age on the date of receipt of ABRYSVO (i.e., index date). For the commercially insured older adult population, individuals must be 60-64 years of age on the index date.

Contemporary unvaccinated controls will be included if they have no record of any vaccination on the index date, no record of ABRYSVO vaccination during the baseline period or on the index date, and at least one vaccination claim in the year prior to the index date.

The unvaccinated controls will be assigned an index date matched to a

corresponding ABRYSSVO vaccinee's vaccination date and will be required to be at least 65 years of age (for Medicare) or 60-64 years of age (for commercially insured adults in PharMetrics Plus) on the matched index date.

Contemporary vaccinated controls will be included if they have no record of an ABRYSSVO vaccine, but have a claim for another vaccine within 30 days of a corresponding ABRYSSVO vaccinee's vaccination date which will serve as the vaccinated control's index date.

They will be required to be at least 65 years (for Medicare) or 60-64 years of age (for commercially insured adults in PharMetrics Plus) on the matched index date.

All individuals will be required to have at least 12 months of continuous enrollment (i.e., baseline period) prior to the index date.

## Study design details

### **Setting**

This study will be conducted among US Medicare beneficiaries 65 years of age and older, as well as US commercially insured adults 60-64 years of age who receive the ABRYSSVO vaccine, and index-matched vaccinated and unvaccinated controls, between the earliest date of ABRYSSVO vaccine availability and 31 December 2027.

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### **Comparators**

Incidence rates for the primary and secondary outcomes will be compared to rates observed in the following control groups for the Medicare population 65 years and older:

Self-controls: cases who experience safety events following vaccination using the SCRI design to compare the risk interval following vaccination to post-

vaccination non-risk intervals in the same individual. Individuals must have post-index enrollment equivalent to the duration of the risk and control intervals to be included in this analysis. A conditional Poisson regression model will be used to compare the rates of safety events in the risk interval vs post-vaccination control time period. From this model we will report rate ratios and 95% CIs that will be interpreted as the relative incidence for the safety event in the risk interval compared to the control interval.

Internal comparator cohorts: two random samples of contemporaneous vaccinated and unvaccinated matched controls. ATT weighting, based on propensity scores, will be used to ensure baseline comparability between the ABRYSV0 vaccinated cohort and contemporary unvaccinated controls, as well as the ABRYSV0 vaccinated cohort and contemporary vaccinated controls. ATT weighted Cox regression with robust standard errors to account for within-subject correlation will be conducted to compare the risk of safety events between cohorts. Hazard ratios and corresponding 95% CIs will be summarized.

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## **Outcomes**

The study's primary outcome, new onset GBS, will be identified by an inpatient claim with GBS as the primary diagnosis. This will represent the date of GBS onset unless there is a claim with a GBS diagnosis in another medical setting in the 7 days prior to the inpatient claim. In that case, the earlier medical claim will represent the date of onset. To be considered a new onset case, there should be no diagnosis for GBS observed in the 12 months prior to the index date (i.e., "clean window"). Secondary outcomes will include new onset acute polyneuropathies and other immune-mediated demyelinating conditions. Claims for outpatient (including emergency department) and/or inpatient settings will be used to identify secondary outcomes, depending on the type of event.

A clean window without a claim with diagnosis of the safety event in the 12 months prior to the index date will also be required for each individual safety event risk analysis.

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### **Data analysis plan**

Analyses will be conducted separately for commercially insured adults 60-64 years and for Medicare insured adults 65 years and older.

Baseline demographics and clinical characteristics for individuals administered ABRYSVO and contemporary vaccinated and unvaccinated controls will be summarized using descriptive statistics.

Descriptive statistics will also be used to summarize vaccination patterns for ABRYSVO. Incidence rates per 100,000 patient-years (and corresponding 95% CIs) will be calculated for GBS, acute polyneuropathies, and other immune-mediated acute demyelinating conditions as the total number of incident events divided by the total observation time.

## Data management

### ENCePP Seal

The use of the ENCePP Seal has been discontinued since February 2025. The ENCePP Seal fields are retained in the display mode for transparency but are no longer maintained.

## Data sources

### **Data source(s), other**

Centers for Medicare & Medicaid Services (CMS)

Chronic Conditions Data Warehouse (CCW)

Medicare administrative database

PharMetrics Plus database

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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**

Unknown