

# Incidence rates of pemphigus and pemphigoid following COVID-19 vaccines

**First published:** 04/07/2023

**Last updated:** 02/07/2024

Study

Finalised

## Administrative details

### PURI

<https://redirect.ema.europa.eu/resource/50716>

### EU PAS number

EUPAS50715

### Study ID

50716

### DARWIN EU® study

No

### Study countries

Spain

United Kingdom

### Study description

This is a cohort study describing vaccine exposure, population incidence rates of pemphigus and pemphigoid, and incidence rates of pemphigus and pemphigoid in the vaccine exposed population. The study population is the general population in the UK and patients visiting general practices in Spain. As an exploratory analysis a Self-controlled Case Series design is applied

### Study status

Finalised

## Research institution and networks

# Institutions

## European Medicines Agency (EMA)

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

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Institution

## Contact details

### Study institution contact

Robert Flynn

Study contact

[robert.flynn@ema.europa.eu](mailto:robert.flynn@ema.europa.eu)

### Primary lead investigator

Robert Flynn

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Planned:

05/12/2022

Actual:

05/12/2022

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### Study start date

Planned:

05/12/2022

Actual:

05/12/2022

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### Date of final study report

Planned:

20/02/2023

Actual:

07/03/2023

## Sources of funding

- EMA

## Study protocol

[FINAL\\_Analysis Plan - COVID-19 vaccines and pemphigoid - for publication.pdf](#)(465.66 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 list

**Study topic:**

Disease /health condition  
Human medicinal product

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**Study type:**

Non-interventional study

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**Scope of the study:**

Assessment of risk minimisation measure implementation or effectiveness

**Data collection methods:**

Secondary data collection

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**Main study objective:**

This study aims to describe Comirnaty, Spikevax and Vaxzevria vaccine exposure, incidence rates of new onset pemphigus or pemphigoid (or related conditions) in the general population and following exposure to Comirnaty, Spikevax or Vaxzevria vaccines.

A Self-controlled Case Series is conducted as an exploratory analysis.

## Study Design

### Non-interventional study design

Cohort

Other

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### Non-interventional study design, other

Self-controlled case series

## Study drug and medical condition

### Name of medicine

COMIRNATY

Spikevax

Vaxzevria

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### Study drug International non-proprietary name (INN) or common name

ELASOMERAN

TOZINAMERAN

COVID-19 VACCINE ASTRAZENECA (CHADOX1 NCOV-19)

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### Medical condition to be studied

Pemphigoid

Pemphigus

## Population studied

### Short description of the study population

The study focused on general population in the UK and patients visiting general practices in Spain identified through the IQVIA™ Medical Research Data (IMRD) and THIN® databases.

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### Age groups

Preterm newborn infants (0 – 27 days)

Term newborn infants (0 – 27 days)

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**

3200000

## Study design details

### **Outcomes**

Pemphigoid and pemphigus, Vaccine utilisation will be stratified by sex, age (at first use), and year of vaccination. Event rates for pemphigoid and pemphigus in the general population will be stratified by sex, age and year of recorded diagnosis. Event rates among exposed patients will be stratified by number of doses

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### **Data analysis plan**

This is a cohort study describing vaccine exposure, population incidence rates of pemphigus and pemphigoid, and incidence rates of pemphigus and pemphigoid in the vaccine exposed population. A Self-controlled Case Series is conducted as an exploratory analysis.

## Documents

### **Study results**

[Final\\_Report Plan\\_COVID-19 vaccines and pemphigoid\\_v1.5.pdf\(2 MB\)](#)

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## Data management

## Data sources

### **Data source(s)**

THIN® (The Health Improvement Network®)  
IQVIA Medical Research Data - OMOP

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### **Data sources (types)**

[Electronic healthcare records \(EHR\)](#)

## 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