Safety and effectiveness of RZV in adults ≥18 years of age with Systemic lupus erythematosus (SLE) or Multiple sclerosis (MS) (EPI-ZOSTER-041 VS US DB 215104)

First published: 18/10/2023 Last updated: 05/09/2025





### Administrative details

**Study description** 

EU PAS number	
EUPAS107073	
Study ID	
108331	
DARWIN EU® study	
No	
Study countries	
United States	
Officed States	

This is an observational study based on data extracted from database(s), which evaluates the safety and vaccine effectiveness of Shingrix, or recombinant zoster vaccine (RZV), in adults with pre-existing systemic lupus erythematosus (SLE) or multiple sclerosis (MS).

#### **Study status**

Ongoing

### Research institutions and networks

### **Institutions**

# GlaxoSmithKline (GSK)

First published: 01/02/2024

**Last updated:** 01/02/2024

Institution

### Harvard Pilgrim Health Care Institute

First published: 01/02/2024

Last updated: 01/02/2024

Institution

### Contact details

**Study institution contact** 

# Call Center EU GSK Clinical Trials RD.CTT-globalmailbox@gsk.com

**Study contact** 

RD.CTT-globalmailbox@gsk.com

### **Primary lead investigator**

Call Center EU GSK Clinical Trials

**Primary lead investigator** 

## Study timelines

### Date when funding contract was signed

Planned: 24/08/2021

Actual: 24/08/2021

#### Study start date

Planned: 20/10/2023

Actual: 20/10/2023

#### Date of final study report

Planned: 15/01/2027

# Sources of funding

• Pharmaceutical company and other private sector

### More details on funding

GlaxoSmithKline

### Study protocol

Protocol Amendment Anonymized 215104.pdf (2.47 MB)

## Regulatory

Was the study required by a regulatory body?

No

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

Not applicable

# Methodological aspects

# Study type

# Study type list

### **Study topic:**

Disease /health condition

#### **Study type:**

Non-interventional study

#### Main study objective:

- To assess the risk of severe flare within 90 days following any RZV dose in adults with pre-existing SLE.
- To assess the risk of any relapse within 90 days following any RZV dose in

adults with pre-existing MS.

- To estimate the VE of 2 doses of RZV in preventing HZ in adults with preexisting SLE.
- To estimate the VE of 2 doses of RZV in preventing HZ in adults with preexisting MS.

## Study Design

#### Non-interventional study design

Cohort

# Study drug and medical condition

#### Name of medicine

**SHINGRIX** 

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

HERPES ZOSTER VACCINE (RECOMBINANT, ADJUVANTED)

### **Anatomical Therapeutic Chemical (ATC) code**

(J07BK03) zoster, purified antigen zoster, purified antigen

# Population studied

#### **Age groups**

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)

#### **Estimated number of subjects**

48693

### Study design details

#### **Outcomes**

Safety: Risk of severe systemic lupus erythematosus (SLE) flare or risk of any multiple sclerosis (MS) relapse.

Effectiveness: Vaccine effectiveness in prevention of herpes zoster (HZ).

Effectiveness: Incidence of post-herpetic neuralgia (PHN).

#### Data analysis plan

The analysis plan will include descriptive measures to characterize vaccinated and unvaccinated individuals. Cox proportional hazards regression models will be used to compare outcomes in vaccinated and unvaccinated patients using propensity scores to balance potential confounders.

To evaluate safety outcomes after any RZV dose, separate cohorts will be created for RZV Dose 1 and Dose 2, each with matched unvaccinated comparators.

Severe SLE flares and any MS relapses will be assessed separately in each cohort (Dose 1 and Dose 2) first descriptively, and using time-to-event analysis with Cox proportional hazard models, assessing for violations of the proportional hazards assumptions.

A retrospective cohort design with Cox proportional hazards modelling will be used to assess the risks of HZ and incidence of PHN after RZV vaccination. In

the primary analysis, patients receiving the RZV Dose 2 at least 28 days after RZV Dose 1 will be compared to patients with no prior RZV vaccination.

### 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

US FDA Sentinel System Centers for Medicare and Medicaid Services (CMS) – Medicare United States

#### Data sources (types)

Administrative healthcare records (e.g., claims)

## Use of a Common Data Model (CDM)

### **CDM** mapping

No

## Data quality specifications

### **Check stability**

**Check conformance** 

Unknown

### **Check logical consistency**

Unknown

# Data characterisation

#### **Data characterisation conducted**

No