

# DARWIN EU® - Uptake of meningococcal vaccines by the target population in Europe

**First published:** 15/07/2025

**Last updated:** 01/08/2025

Study

Ongoing

## Administrative details

### EU PAS number

EUPAS1000000675

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### Study ID

1000000675

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### DARWIN EU® study

Yes

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### Study countries

- ☐ Croatia
  - ☐ Denmark
  - ☐ Finland
  - ☐ Germany
  - ☐ Spain
  - ☐ United Kingdom
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## **Study description**

Immunisation against meningococcal disease forms a crucial public health measure in preventing IMD, especially amongst vulnerable populations.

Nevertheless, the coverage of meningococcal vaccines within Europe remains largely unclear and inconsistent due to the variation in the vaccination schedule recommended in countries within Europe and the UK.

This study aims to generate comprehensive evidence on the coverage of MenB, MenC, and MCV4 meningococcal vaccines as part of the immunisation schedule amongst eligible individuals in Europe.

The coverage of Meningococcal vaccines will be examined in countries including Croatia, Denmark, and Finland where Meningococcal vaccines are only administered to selected individuals with specific medical need and those with increased risk of meningococcal disease due to underlying health conditions or medications rather than as part of the routine vaccination schedule.

Given the administration of meningococcal vaccines provided to individuals outside the standard age-based immunisation schedule in certain countries, this study will additionally investigate the age distribution of vaccine receivals to identify patterns of off-schedule administration in separate countries across Europe.

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## **Study status**

Ongoing

## **Research institutions and networks**

### **Institutions**

## Department of Medical Informatics - Health Data Science, Erasmus Medical Center (ErasmusMC)

☐ Netherlands

**First published:** 03/11/2022

**Last updated:** 02/05/2024

**Institution**

**Educational Institution**

**ENCEPP partner**

## Networks

### Data Analysis and Real World Interrogation Network (DARWIN EU®)

☐ Belgium

☐ Croatia

☐ Denmark

☐ Estonia

☐ Finland

☐ France

☐ Germany

☐ Greece

☐ Hungary

☐ Italy

☐ Netherlands

☐ Norway

☐ Portugal

- ☐ Spain
- ☐ Sweden
- ☐ United Kingdom

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

**Last updated:** 30/04/2025

Network

## Contact details

### Study institution contact

Natasha Yefimenko [study@darwin-eu.org](mailto:study@darwin-eu.org)

Study contact

[study@darwin-eu.org](mailto:study@darwin-eu.org)

### Primary lead investigator

Ivan Lam

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Planned: 27/03/2025

Actual: 27/03/2025

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### Study start date

Planned: 30/06/2025

Actual: 30/06/2025

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### **Date of final study report**

Planned: 30/10/2025

## Sources of funding

- EMA

## Study protocol

[DARWIN EU\\_Protocol\\_P4-C1-006\\_Utilisation of Meningococcal Vaccines in Europe\\_V3.0.pdf](#) (1.02 MB)

## 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:**

Human medicinal product

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**Study type:**

Non-interventional study

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**Data collection methods:**

Secondary use of data

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**Study design:**

A drug utilisation cohort study will be conducted, using routinely collected health data from seven nationwide or regional databases in six European countries

**Main study objective:**

1. To examine the coverage of MenB vaccines in children at age one and two years by dose received ( $\geq 1$  dose,  $\geq 2$  doses,  $\geq 3$  doses,  $= 1$  dose,  $= 2$  doses,  $= 3$  doses)
2. To examine the coverage of MenC or Hib/MenC conjugate vaccines in children at age two years ( $\geq 1$  dose,  $= 1$  dose)
3. To examine the coverage of MCV4 vaccines in individuals at age 18 years ( $\geq 1$  dose,  $= 1$  dose)
4. To estimate the coverage of specific brand of MenB vaccines (Bexsero® and Trumemba®) in individuals aged two years and MCV4 vaccines (Menveo® and Nimenrix®) in individuals aged 18 years =
5. To characterise the age distribution of receipt of MenB, MenC, and MCV4 vaccines

## Study Design

## Non-interventional study design

Cohort

## Study drug and medical condition

### Medicinal product name, other

Monovalent Meningococcal group B surface protein vaccine, Monovalent Meningococcal group B surface protein vaccine, Quadrivalent Meningococcal conjugate vaccine (groups A, C, W-135, and Y)

## Population studied

### Short description of the study population

This study will include all individuals present in their respective database who reach two years of age for examining the coverage of MenB or Hib/MenC vaccines, and 18 years of age for examining the coverage of MCV4 vaccines

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### Age groups

- **In utero**
- **Paediatric Population (< 18 years)**
  - Neonate
    - 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)
- **Adult and elderly population (≥18 years)**
  - Adults (18 to < 65 years)
    - Adults (18 to < 46 years)

- Adults (46 to < 65 years)
- Elderly ( $\geq 65$  years)
  - Adults (65 to < 75 years)
  - Adults (75 to < 85 years)
  - Adults (85 years and over)

## 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)**

Croatia National Public Health Information System (Nacionalni javnozdravstveni informacijski sustav)

The Information System for Research in Primary Care (SIDIAP)

Danish Health Data Registries

Hospital District of Helsinki and Uusimaa patient cohort (FinOMOP)

InGef Research Database

BIFAP - Base de Datos para la Investigación Farmacoepidemiológica en el Ámbito Público (Pharmacoepidemiological Research Database for Public Health Systems)

Clinical Practice Research Datalink (CPRD) GOLD

## Use of a Common Data Model (CDM)



## CDM mapping

Yes

## CDM Mappings

### CDM name

OMOP

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### CDM website

<https://www.ohdsi.org/Data-standardization/>

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### CDM version

<https://ohdsi.github.io/CommonDataModel/index.html>

## 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