

# DARWIN EU® - Neonatal seizures: Incidence, prevalence, patient characterisation, and treatments in European countries

**First published:** 10/11/2025

**Last updated:** 10/11/2025

Study

Ongoing

## Administrative details

### EU PAS number

EUPAS1000000822

---

### Study ID

1000000822

---

### DARWIN EU® study

Yes

---

### Study countries

☐ Finland

☐ France

☐ Hungary

☐ Norway

---

## 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

Dina Vojinovic

Primary lead investigator

## Study timelines

**Date when funding contract was signed**

Planned: 24/09/2025

Actual: 24/09/2025

---

**Study start date**

Planned: 31/10/2025

Actual: 31/10/2025

---

**Date of final study report**

Planned: 27/02/2026

## Sources of funding

- EMA

## Regulatory

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

Yes

---

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

Not applicable

## Methodological aspects

### Study type

### Study type list

**Study type:**

Non-interventional study

---

**Main study objective:**

1. To estimate the incidence and prevalence of seizures in neonates.
2. To characterise patients' demographic and clinical profile at the time of diagnosis, including:
  - sex
  - age at diagnosis
  - gestational age
  - weight at birth
  - Symptoms
  - diagnostic tools (EEG, Video EEG, etc.)
  - comorbidities/concurrent conditions, including those presenting a high risk for seizure development hypoxic-ischemic encephalopathy, stroke or haemorrhage, infections, cortical malformations, errors of metabolism (acute and inborn), and genetic aetiologies.
3. To characterise treatments received for the primary diagnosis of seizures in neonates, including standard of care, treatment pattern and duration of treatment.
4. To describe short, mid and long-term outcomes (including survival, related diagnosed conditions such as neurodevelopmental, neurological [e.g. epilepsies, cerebral palsy]) at 1 month of discharge, 2 years of age and 6-7 years of age.

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.

## Use of a Common Data Model (CDM)

### CDM mapping

Yes

### CDM Mappings

#### CDM name

OMOP

---

#### CDM website

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

---

#### CDM version

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

## Data quality specifications

### Check conformance

Unknown

---

### Check completeness

Unknown

---

**Check stability**

Unknown

---

**Check logical consistency**

Unknown

**Data characterisation**

**Data characterisation conducted**

No