

# DARWIN EU® – Prevalence of selected cancers

**First published:** 19/08/2025

**Last updated:** 08/10/2025

Study

Ongoing

## Administrative details

### EU PAS number

EUPAS1000000715

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### Study ID

1000000715

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### DARWIN EU® study

Yes

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### Study countries

- ☐ Croatia
  - ☐ Denmark
  - ☐ Germany
  - ☐ Netherlands
  - ☐ Norway
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## Study description

Substantial uncertainty surrounds the prevalence of rare blood cancers.

Estimates generated from real-world data can be influenced by database type, setting, and quality.

This present study builds on a previous DARWIN EU® study (EUPAS50800), which estimated the prevalence of rare blood cancers using data from five sources in Europe, primarily reflecting primary care settings.

Across the databases included in the study, acute lymphocytic leukaemia and acute myeloid leukaemia were the least prevalent diseases, with the highest estimates for their 5-year partial point prevalence being 0.65 and 1.03 per 10,000, respectively.

The highest estimate of prevalence of diffuse large B-Cell lymphoma was 1.73 per 10,000, while the highest prevalence of follicular lymphoma was 2.83 per 10,000.

Lastly, the highest estimates for prevalence of chronic lymphocytic leukaemia and multiple myeloma were 4.13 and 4.27 per 10,000, respectively.

Importantly, the study assessed the impact of different design choices on the obtained results, including different windows for prevalence assessment (i.e., point vs. period prevalence) and outcome duration (i.e., complete vs. partial prevalence, using 2 and 5 years to define outcome duration).

Building on the methodological work of the previous study, the current study is now repeated to incorporate additional outcomes (i.e., pancreatic cancer and soft tissue sarcoma) and data sources, including registry data and claims data. Importantly, this study will incorporate two national cancer registries in Europe, which will require the use of external sources, such as national estimates, to derive denominators for prevalence estimation.

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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

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Study contact

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

### Primary lead investigator

Berta Raventos

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Planned: 09/04/2025

Actual: 09/04/2025

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### Study start date

Planned: 11/08/2025

Actual: 11/08/2025

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

Planned: 30/01/2026

## Sources of funding

- EMA

## Study protocol

[DARWIN EU\\_Protocol\\_P4-C2-005\\_Prevalence of selected cancers\\_V3.0.pdf](#)

(952.47 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

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**Study topic, other:**

Cancers

**Study type:**

Non-interventional study

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**Scope of the study:**

Disease epidemiology

**Data collection methods:**

Secondary use of data

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**Study design:**

A cohort study will be conducted using routinely collected health data from 5 databases from 5 countries across Europe. This will consist of a descriptive epidemiological study providing point prevalence estimates of selected cancers in each participating database.

## Study Design

**Non-interventional study design**

Cohort

## Population studied

**Short description of the study population**

All individuals in the database during the study period will be eligible for inclusion in the study. No prior history requirement will be applied in the primary analysis.

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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 (≥ 65 years)
    - Adults (65 to < 75 years)
    - Adults (75 to < 85 years)
    - Adults (85 years and over)

## **Study design details**

### **Setting**

The primary aim of this study is to estimate the point prevalence of rare blood cancers, pancreatic cancer, and soft tissue sarcoma across selected databases in Europe.

The secondary aim of this study is to compare the prevalence of selected

cancers included in the primary aim of the study, using denominator data available within the data source versus denominator data obtained from external sources.

## 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)

Danish Health Data Registries

InGef Research Database

Netherlands Cancer Registry

The Cancer Registry of Norway

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### Data sources (types)

[Cancer registry](#)

[Disease registry](#)

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

## 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**

No