

# DARWIN EU® - Time to onset of thromboembolic events in adults with selected types of cancer

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

**Last updated:** 21/01/2026

Study

Ongoing

## Administrative details

### EU PAS number

EUPAS1000000814

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### Study ID

1000000814

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### DARWIN EU® study

Yes

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### Study countries

 Belgium

 Denmark

 Estonia

 Finland

 Germany

 Netherlands

 Spain

 United Kingdom

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## **Study description**

Thromboembolic events are a common complication for individuals with cancer, with risk varying according to the cancer type, suggesting that mechanisms that play a role in the occurrence of these events may be specific to the cancer type itself or its treatment mechanisms. Haematological malignancies and lung, pancreas, stomach, bowel, and brain cancers are generally associated with a high risk of thrombosis, whilst prostate and breast cancers are associated with low risk of thrombosis.

When a safety signal of a thromboembolic event appears in cancer populations, it can be challenging to assess a potential association with the oncologic treatment without reliable information on the background risk. This study is intended to address this knowledge gap by generating evidence on the time to onset of different venous thromboembolic events among adults with selected cancer types.

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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

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

### Primary lead investigator

Anton Barchuk

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Planned: 06/08/2025

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### Study start date

Planned: 28/10/2025

Actual: 28/10/2025

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## **Date of final study report**

Planned: 30/01/2026

## Sources of funding

- EMA

## Study protocol

[DARWIN EU\\_Protocol\\_P4-C2-017\\_Thromboembolic events in selected cancers\\_V3.0.pdf](#) (1.58 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:**

Disease /health condition

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**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.

**Main study objective:**

1. To estimate the thromboembolism-free survival within 5 years of the first cancer diagnosis in adults with each type of selected cancer, overall and stratified by age group, sex, and study subperiod.
2. To estimate the median time from the first cancer diagnosis to onset of thromboembolic events in individuals with thromboembolic events with each type of selected cancer, overall and stratified by age group, sex, and study subperiod.

## Study Design

**Non-interventional study design**

Cohort

## Population studied

## Short description of the study population

### Objective 1

#### Inclusion criteria

- First diagnosis of a selected cancer (index date) between 01/01/2016 and 31/12/2022 (inclusion period)
- Age  $\geq 18$  years at cancer diagnosis
- Minimum of 365 days of available history before the cancer diagnosis date
- Cancer diagnosis date  $\geq 365$  days prior to end of data availability of the data source

#### Exclusion criteria

- History of any cancer diagnosis ever before the selected cancer diagnosis date

### Objective 2

#### Inclusion criteria

- The subset of the cohort for objective 1 who experienced the outcome (i.e., thromboembolic event) during follow-up.

The study design to address objective 1, including assessment windows, is visualised in Figure 1. For objective 2, we will include the subset of the cohort of adults with cancer that experienced a thromboembolic event during follow-up.

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## Age groups

- **Adult and elderly population ( $\geq 18$  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)**

IQVIA Longitudinal Patient Data - Belgium

IQVIA Disease Analyzer Germany

Danish Health Data Registries

Estonian Biobank

Hospital District of Helsinki and Uusimaa patient cohort (FinOMOP)

Integrated Primary Care Information (IPCI)

The Information System for Research in Primary Care (SIDIAP)

Clinical Practice Research Datalink (CPRD) GOLD

UK Biobank

## 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