

# Real-World Molecular Subtypes and Characteristics of Breast Cancer in Belgium: Insights from Routinely Collected Data [BE-REAST]

**First published:** 03/02/2026

**Last updated:** 03/02/2026

Study

Finalised

## Administrative details

### EU PAS number

EUPAS1000000398

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### Study ID

1000000398

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### DARWIN EU® study

No

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### Study countries

Belgium

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### Study description

This multicenter study describes molecular subtypes and characteristics of Belgian patients with breast cancer by leveraging natural language processing and the OMOP common data model.

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## Study status

Finalised

## Research institutions and networks

### Institutions

#### AZ Maria Middelaes General Hospital

Belgium

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

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

Institution

Hospital/Clinic/Other health care facility

#### AstraZeneca

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

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

Institution

#### Universitair Ziekenhuis Antwerpen (UZA)

Belgium

**First published:** 11/06/2025

**Last updated:** 16/06/2025

**Institution**

Hospital/Clinic/Other health care facility

Laboratory/Research/Testing facility

ENCePP partner

## LynxCare Clinical Informartics

Belgium

**First published:** 20/10/2025

**Last updated:** 20/10/2025

**Institution**

Other

## Algemeen Ziekenhuis Groeninge

### Contact details

#### Study institution contact

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Study contact

[katoo.muylle@astrazeneca.com](mailto:katoo.muylle@astrazeneca.com)

#### Primary lead investigator

Katoo Muylle 0000-0003-1117-6709

Primary lead investigator

**ORCID number:**

0000-0003-1117-6709

## Study timelines

**Date when funding contract was signed**

Actual: 16/11/2022

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**Study start date**

Actual: 27/10/2023

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**Date of final study report**

Planned: 31/12/2023

Actual: 10/06/2024

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

AstraZeneca BeLux

## Regulatory

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

No

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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:**

Multicenter study (n = 3) analyzing routinely collected data from pseudonymized electronic health records (EHRs) using natural language processing (NLP) for unstructured sources. The algorithm mapped variables to a standard terminology, generating OMOP CDM databases, validated per hospital.

### **Main study objective:**

- Assess the feasibility of systematically capturing stage and receptor status across hospitals
- Assess contemporary real-world molecular subtype distributions in early and advanced disease (eBC and aBC)
- Preliminarily assess subtype stability at progression/relapse

## Study Design

### **Non-interventional study design**

Cohort

## Study drug and medical condition

### **Medical condition to be studied**

Breast cancer

## Population studied

### **Short description of the study population**

Breast cancer patients (all stages) diagnosed between 1 January 2018 and 31 December 2022.

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### **Estimated number of subjects**

2000

## Study design details

## Setting

Belgium, diagnosis between 2018 and 2022

## 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)

LynxCare

## 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**

5.4

## Data quality specifications

**Check conformance**

Yes

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**Check completeness**

Yes

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**Check stability**

Yes

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**Check logical consistency**

Yes

## Data characterisation

**Data characterisation conducted**

Yes

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**Data characterisation moment**

after data extraction

after extract-transform-load to a common data model

after creation of study variables