Sustainability of response to biologics in severe asthma and predictors of late failure among patients in an international registry (SHINE)

First published: 23/10/2025

Last updated: 06/08/2026

Study | Finalised

Administrative details

EU PAS number

EUPAS1000000788

Study ID

1000000788

DARWIN EU® study

No

Study countries

Argentina

Belgium

Brazil

Bulgaria
Canada
Colombia
Denmark
Estonia
Greece
Ireland
Italy
Japan
Korea, Republic of
Kuwait
Mexico
Norway
Poland
Portugal
Saudi Arabia
Singapore
Spain
Taiwan
United Arab Emirates
United Kingdom
United States

Study description

Study aims to characterise late failures—relapses occurring up to three years after remission is achieved at 12 months of biologic therapy.

Study status

Finalised

Research institutions and networks

Institutions

Observational & Pragmatic Research Institute Pte (OPRI)

United Kingdom

First published: 06/10/2015

Last updated: 20/08/2026

Institution | **Educational Institution** | **Laboratory/Research/Testing facility** | **ENCePP partner**

Networks

International Severe Asthma Registry

Contact details

Study institution contact

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Study contact

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Primary lead investigator

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Primary lead investigator

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Study timelines

Date when funding contract was signed
Planned: 17/11/2023

Actual: 17/11/2023

Study start date
Planned: 01/03/2023

Actual: 17/03/2023

Data analysis start date
Planned: 01/07/2025

Actual: 30/07/2025

Date of final study report
Planned: 31/08/2026

Actual: 05/08/2026

Sources of funding

- Pharmaceutical company and other private sector

More details on funding

Pharmaceutical companies: AstraZeneca

Other: Optimum Patient Care Global

Study protocol

ISAR SHINE_Protocol_25.09.18_clean.pdf (566.21 KB)

Regulatory

Was the study required by a regulatory body?

No

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

Not applicable

Methodological aspects

Study type

Study type list

Study topic:

Disease /health condition

Human medicinal product

Study type:

Non-interventional study

Scope of the study:

Effectiveness study (incl. comparative)

Data collection methods:

Secondary use of data

Study design:

Observational longitudinal study

Main study objective:

• To describe the frequencies of late failure and the type and extent of domain failure attributed to remission failures

• To identify pre- and post-treatment characteristics associated with late failures

• To describe persistence of late failures and the potential role of switching biologic agent in regaining remission after late failure

Study Design

Non-interventional study design

Cohort

Study drug and medical condition

Medicinal product name

CINQAERO

DUPIXENT

FASENRA

NUCALA

TEZSPIRE

XOLAIR

Medicinal product name, other

Cinqair

Study drug International non-proprietary name (INN) or common name

BENRALIZUMAB

DUPILUMAB

MEPOLIZUMAB

OMALIZUMAB

TEZEPELUMAB

Medical condition to be studied

Asthma

Additional medical condition(s)

Severe asthma

Population studied

Short description of the study population

Patients diagnosed with severe asthma from 25 countries

Age groups

- Adults (18 to < 65 years)
  - Adults (18 to < 46 years)
  - Adults (46 to < 65 years)

Study design details

Setting

The study population will be extracted from the International Severe Asthma Registry database (data collected between 2017 and 2025). Eligibility criteria include having initiated biologic therapy, being adult at initiation, and having follow-up data for at least 2 years after initiation.

Comparators

Patient demographic and clinical characteristics measured pre-initiation of biologic treatment and after 12 months of follow-up.

Outcomes

The outcome of interest will be late failure, considered the first failure to meet three-domain remission definition (No exacerbations, no long-term oral corticosteroid use, partly or well-controlled asthma) recorded at a follow up occurring at least 24 months following biologic initiation.

Data analysis plan

Outcome details: Remission status

Type: Yes, No

Model: Logistic regression

Estimates: Odds ratios

Summary results

Not yet completed.

Documents

Study report

ISAR SHINE_Study Report_Final_26.08.05_clean.pdf (2.39 MB)

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)

International Severe Asthma Registry

Data sources (types)

Disease registry

Use of a Common Data Model (CDM)

CDM mapping

No

Data quality specifications

Check conformance

Yes

Check completeness

Yes

Check stability

Yes

Check logical consistency

Yes

Data characterisation

Data characterisation conducted

Yes

Data characterisation moment

after data extraction