

# Prevalence and healthcare utilization of eosinophilic chronic obstructive pulmonary disease in the UK – an observational data linkage study

**First published:** 23/10/2025

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Study

Ongoing

## Administrative details

### EU PAS number

EUPAS1000000783

### Study ID

1000000783

### DARWIN EU® study

No

### Study countries

☐ United Kingdom

### Study description

We will conduct a study to determine the number and demographic characteristics of patients with eosinophilic Chronic obstructive pulmonary disease (COPD) in the UK broken down by eligibility for biologic therapies.

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### Study status

Ongoing

## Research institutions and networks

### Institutions

[Queen's University Belfast](#)

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**Institution**

**Educational Institution**

### Networks

[HDRUK](#)

## Contact details

### Study institution contact

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### Study contact

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### Primary lead investigator

### ORCID number:

0000-0002-9176-5564

## Study timelines

### Date when funding contract was signed

Actual: 23/05/2023

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### Study start date

Actual: 01/04/2025

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### Data analysis start date

Actual: 01/06/2025

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### Date of final study report

Planned: 01/04/2026

## Sources of funding

- Non-EU institutional research programme

## More details on funding

Health Data Research UK (HDR-UK, <https://www.hdruk.ac.uk/>)

# Study protocol

[eosinophilic COPD study plan.pdf](#) (293.18 KB)

## 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

## Other study registration identification numbers and links

ADEPT 0825

<https://www.regresearchnetwork.org/>

## 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

Healthcare resource utilisation

**Data collection methods:**

Secondary use of data

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**Study design:**

We will identify all patients with COPD in OPCR. Within that population, we will identify (a) those with active COPD; (b) those diagnosed eosinophilic; (c) with an asthma comorbidity; (d) on triple therapy and (e) with  $>1$  and  $>2$  exacerbations. Cohorts will be followed up in 2024 for health outcomes

**Main study objective:**

To estimate the number and proportion of patients with COPD stratified by eosinophil count, asthma comorbidity, exacerbations and current therapy. To calculate the annual rate of different health outcomes in patients who are potentially eligible for biologic therapy and patients who are not .

## Study Design

**Non-interventional study design**

Cohort

Cross-sectional

## Study drug and medical condition

## Medical condition to be studied

Chronic obstructive pulmonary disease

## Population studied

### Short description of the study population

The study population are adult patients registered with Optimum Patient Care Research Database (OPCRD) with a diagnostic code indicative of COPD.

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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)

## Study design details

### Setting

Inclusion criteria are all adult patients registered within OPCRD (approximately 10% of the general population in the UK) with a diagnostic code for COPD.

Patients need to be continuously registered between 1.1.2021 and 1.1.2024. and have valid information available for age and sex.

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### Outcomes

(1) Number and proportion in the different cohorts; (2) risk factors associated with membership to the different cohorts (odds ratios); (3) hazards and hazard-ratios of disease progression; (4) number of exacerbations (measure for disease progression)

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### **Data analysis plan**

Logistic regression for the risk factors; full-parametric survival analysis for the hazards of disease progression; negative binomial regression for the number of exacerbations. Data management and analysis in MS-SQL Server and R, respectively. All classification will be based on the linked electronic health records, using published code lists and code lists generated by OPCRDR.

## 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)**

Optimum Patient Care Research Database

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### **Data sources (types)**

[Drug prescriptions](#)

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

## Use of a Common Data Model (CDM)

**CDM mapping**

No

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