

# Real-world use of Breztri/Trixeo for the management of COPD in a UK primary care population

**First published:** 24/03/2023

**Last updated:** 23/04/2026

Study

Planned

## Administrative details

### EU PAS number

EUPAS104156

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### Study ID

104157

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### DARWIN EU® study

No

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### Study countries

 United Kingdom

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### Study description

Background/Rationale: The current, stepwise management approach of patients with stable chronic obstructive pulmonary disease (COPD) involves the use of long-acting beta-agonists (LABA), long-acting muscarinic antagonists (LAMA), and/or inhaled corticosteroids (ICS) depending on patients' disease severity and symptomatology. In particular, dual therapies, namely LAMA+LABA or ICS+LABA, are recommended for highly symptomatic patients with moderate to severe COPD. Nonetheless, some patients remain symptomatic and suffer from exacerbations despite using dual therapies. Hence, recent years have seen the emergence of triple therapies (LABA+LAMA+ICS), such as budesonide/glycopyrrolate/formoterol (Breztri/Trixeo). Following demonstration of efficacy by randomized controlled trials, Breztri/Trixeo has been approved by the United States' Food and Drug Administration on 23rd July 2020,<sup>7</sup> and by the European Medicines Agency on 9th December 2020. Nevertheless, as a new medication, real-life evidence underlying the safety, acceptability, and efficacy of Breztri/Trixeo is lacking. Given that findings from randomized controlled trials may only be applicable to a subset of patients in real life, this study seeks to investigate the patient acceptability and describe clinical outcomes of Breztri/Trixeo amongst patients with COPD in the early period after launch using a large general practice database in the United Kingdom. Objective: To describe the acceptability and clinical outcomes of Breztri/Trixeo amongst patients with COPD.

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## **Study status**

Planned

## Research institutions and networks

### Institutions

# Observational & Pragmatic Research Institute Pte (OPRI)

 United Kingdom

**First published:** 06/10/2015

**Last updated:** 19/08/2024

**Institution**

**Educational Institution**

**Laboratory/Research/Testing facility**

**ENCePP partner**

## Contact details

### Study institution contact

David Price [dprice@opri.sg](mailto:dprice@opri.sg)

**Study contact**

[dprice@opri.sg](mailto:dprice@opri.sg)

### Primary lead investigator

David Price

**Primary lead investigator**

## Study timelines

### Date when funding contract was signed

Actual: 24/10/2022

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**Study start date**

Planned: 01/11/2022

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**Data analysis start date**

Planned: 07/11/2022

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**Date of final study report**

Planned: 31/03/2023

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Astra Zeneca

## 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

OPRI-2202, D5980R00073

## Methodological aspects

### Study type

#### Study type list

**Study topic:**

Disease /health condition

Human medicinal product

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**Study type:**

Non-interventional study

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**Scope of the study:**

Drug utilisation

Effectiveness study (incl. comparative)

Safety study (incl. comparative)

**Data collection methods:**

Secondary use of data

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**Study design:**

Historical cohort study

**Main study objective:**

To describe the acceptability and clinical outcomes of Breztri/Trixeo amongst patients with COPD.

## Study Design

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

Cohort

## Study drug and medical condition

### **Medicinal product name, other**

Budesonide/glycopyrrolate/formoterol; BREZTRI/TRIXEO

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### **Anatomical Therapeutic Chemical (ATC) code**

(R03AL11) formoterol, glycopyrronium bromide and budesonide  
formoterol, glycopyrronium bromide and budesonide

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

Chronic obstructive pulmonary disease

## Population studied

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

Patients with a recorded diagnostic COPD code who started budesonide/glycopyrrolate/formoterol (BGF) with  $\geq 2$  prescriptions within 90-days were identified in the UK Optimum Patient Care Research Database and followed from first prescription until censoring at the end of follow-up (180-

days), death, leaving database or end of data at 24/10/2022.

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### **Age groups**

- Adults (18 to < 46 years)
  - Adults (46 to < 65 years)
  - Adults (65 to < 75 years)
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### **Estimated number of subjects**

750

## Study design details

### **Setting**

UK Optimum Patient Care Research Database

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### **Comparators**

N/A

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### **Outcomes**

The primary outcome will be medication success assessed at 90 days (early medication success) after Breztri/Trixexo initiation, which will be as no major cardiac and respiratory events (MACRE) and no pneumonia, 1. patient demographic and clinical characteristics at initiation, 2. changes in CAT score, 3. factors associated with the primary outcome CAT change at 90 days, 4. medication success assessed at 180 days, 5. short-acting beta-agonist use, 6. acceptability of medication change, 7. adherence, 8. overall number of inhalers used, 9. change in COPD control and in exercise capacity at 90 days

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### **Data analysis plan**

Primary and exploratory outcomes will be summarised as means, medians or percentages as appropriate with 95% confidence intervals. For the primary outcome, medication success will be claimed if the lower 95% confidence limit for the percentage achieving success is  $\geq 70\%$ , assessed at 90 days after Breztri/Trixeo initiation. Exploratory outcomes will be summarised separately for 90 days and 180 days. Additionally, an exploratory analysis will be carried out to try to identify factors associated with the primary outcome (early medication success) and with change in CAT score at 90 days.

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### **Summary results**

The majority of patients initiating BGF experienced real-life medication success reflecting absence of severe cardiopulmonary events. These benefits were apparent after 90 days of treatment and sustained over 180 days.

## Documents

### **Study publications**

[Müllerová H, Chan J, Heatley H, Carter V, Townend J, Skinner D, Franzén S, Mars...](#)

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## 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)**

[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