

# A Cohort Study to Evaluate the Real-World Utilization and Effectiveness of Bebtelovimab Compared to Paxlovid among Patients with Mild-to-Moderate COVID-19 Who Are at High Risk for Progressing to Severe Illness (J2X-MC-B003)

**First published:** 09/02/2023

**Last updated:** 17/06/2024

Study

Finalised

## Administrative details

### EU PAS number

EUPAS50700

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### Study ID

50701

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### DARWIN EU® study

No

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### Study countries


## Study status

Finalised

## Research institutions and networks

### Institutions

TriNetX

 Belgium

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

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**Institution**

**Non-Pharmaceutical company**

## Contact details

### Study institution contact

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**Study contact**

[grace\\_elsie\\_l@lilly.com](mailto:grace_elsie_l@lilly.com)

### Primary lead investigator

Elsie Grace

**Primary lead investigator**

# Study timelines

## **Date when funding contract was signed**

Actual: 27/04/2022

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## **Study start date**

Planned: 15/02/2023

Actual: 15/02/2023

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## **Date of final study report**

Planned: 31/07/2023

Actual: 21/12/2023

# Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Eli Lilly and Company

## Study protocol

[LY3853113 J2X-MC-B003 RWE Protocol\\_Redacted.pdf](#) (1.45 MB)

[LY3853113 J2X-MC-B003\(a\) RWE Protocol\\_Redacted.pdf](#) (1.31 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 type:**

Non-interventional study

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**Scope of the study:**

Effectiveness study (incl. comparative)

**Main study objective:**

To estimate the 30-day risk difference of the composite outcome of all-cause hospitalization or all-cause death for patients who received bebtelovimab compared to patients who received Paxlovid.

## Study Design

**Non-interventional study design**

Cohort

## Study drug and medical condition

**Medicinal product name**

PAXLOVID

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

BEBTELOVIMAB

NIRMATRELVIR

RITONAVIR

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**Anatomical Therapeutic Chemical (ATC) code**

(J05AE30) nirmatrelvir and ritonavir

nirmatrelvir and ritonavir

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**Medical condition to be studied**

SARS-CoV-2 test positive

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**Additional medical condition(s)**

Positive results of direct SARS-CoV-2 viral testing and high risk for progression to severe COVID-19

## Population studied

**Age groups**

- Adolescents (12 to < 18 years)
  - Adults (18 to < 46 years)
  - Adults (46 to < 65 years)
  - Adults (65 to < 75 years)
  - Adults (75 to < 85 years)
  - Adults (85 years and over)
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## Estimated number of subjects

2780

## Study design details

### Outcomes

All-cause hospitalization or all-cause death, 30-day risk difference of all-cause hospitalization, all-cause death, and all-cause emergency department visits.

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### Data analysis plan

For patients included in both study cohorts, descriptive statistics will be used to describe baseline characteristics. Differences between baseline characteristics will be calculated using standardized differences before and after propensity score matching. An intent-to-treat approach will be used to derive the cumulative incidence (risk) and risk difference and 95% CI of 30-day all-cause hospitalization or all-cause death (primary analysis composite outcome). For comparing the outcomes between the 2 cohorts, confounding control will be achieved using coarsened exact matching on highly selected and a priori defined baseline variables in conjunction with propensity score matching on a broader set of baseline variables. For the primary analysis only, the noninferiority null hypothesis for this objective will be tested using the 1-sided Type I error of 0.025 by setting the RDUCL 95% CI of the bebtelovimab versus Paxlovid to be less than the prespecified noninferiority margin of 1.795%.

## Documents

### Study report

[LY3853113\\_J2X-MC-B003 Full Clinical Study Report\\_Redacted.pdf](#) (2.71 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), other

TriNetX Dataworks USA Network, United States

TriNetX Linked Network (Supplemental Data Source)

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### Data sources (types)

[Administrative healthcare records \(e.g., claims\)](#)

[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