

# Utilisation of low-dose rivaroxaban in patients with atherosclerotic cardiovascular disease in the united kingdom and the netherlands

**First published:** 07/07/2022

**Last updated:** 23/04/2024

Study

Ongoing

## Administrative details

### EU PAS number

EUPAS48079

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### Study ID

48112

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### DARWIN EU® study

No

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### Study countries

 Netherlands

 United Kingdom

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## Study description

This study will describe the patterns in prescribing of low-dose Rivaroxaban in people diagnosed with ASCVD following the publication of the COMPASS trial, NICE and ESC recommendations. A time series analysis will be conducted in the UK CPRD Aurum data and Dutch PHARMO Database Network database, to describe the prescribing or dispensing of low-dose (2.5mg twice daily) Rivaroxaban in people with ASCVD from January 2015 to February 2022. Monthly counts of the prevalence of low-dose Rivaroxaban users and incidence of new users will be calculated in the two data sources. An interrupted time series analysis (ITS) analysis using segmented Poisson regression modelling will be conducted to estimate whether or not there was a change in prescribing of Rivaroxaban following each intervention. Several comparisons between users and non-users of low-dose rivaroxaban will characterise the patients, based on relevant comorbidities, concomitant medication user and demographic information. Associations between these covariates and the probability of receiving the prescription will be examined in a logistic regression model.

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## Study status

Ongoing

## Research institutions and networks

### Institutions

Division of Pharmacoepidemiology & Clinical Pharmacology (PECP), Utrecht Institute for Pharmaceutical Sciences (UIPS), Utrecht University



Netherlands

**First published:** 01/03/2010

**Last updated:** 27/05/2026

**Institution**

**Educational Institution**

**ENCePP partner**

## Contact details

### Study institution contact

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**Study contact**

[o.h.klungel@uu.nl](mailto:o.h.klungel@uu.nl)

### Primary lead investigator

Nicholas Hunt

**Primary lead investigator**

## Study timelines

### Date when funding contract was signed

Planned: 01/09/2021

Actual: 01/09/2021

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### Study start date

Planned: 01/11/2021

Actual: 01/11/2021

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### Date of final study report

Planned: 30/06/2022

## Sources of funding

- Other

## More details on funding

PhD project

## 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 type:**

Non-interventional study

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#### **Scope of the study:**

Drug utilisation

#### **Main study objective:**

To compare the trends of the utilisation of low-dose rivaroxaban over the period 2015-2022, before and after guideline changes, in two European countries

## Study Design

## **Non-interventional study design**

Cross-sectional

## Study drug and medical condition

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

RIVAROXABAN

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

Arteriosclerosis

## Population studied

### **Age groups**

- 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**

1300000

## Study design details

### **Outcomes**

Incidence of the new (incident) use of low-dose rivaroxaban

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## Data analysis plan

An ITS analysis will be used to determine whether the introduction of the Netherland's National Health Care Institute (Zorginstituut Nederland, 29/01/2019) and UK's National Institute for Health and Care Excellence (NICE, 17/10/2019) recommendations had an impact on utilisation. The primary analysis compared the periods pre- (from 01/01/2015 until the national guideline change "intervention") and post-intervention (from intervention until the end of data collection) using a segmented Poisson regression analysis and per database. For the estimates of the effects of intervention, 95% confidence intervals (CI) and Wald p-values will be estimated. Chi-square and t-tests were used to evaluate differences in patient characteristics for the users versus non-users. Associations between the covariates and the probability of odds of low-dose rivaroxaban use were examined using a logistic regression model to estimate the odd ratio and corresponding 95% CI.

## 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)

Clinical Practice Research Datalink

PHARMO Data Network

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

[Drug dispensing/prescription data](#)

[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

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## Data characterisation

### **Data characterisation conducted**

No