

A pharmacoepidemiological study of Rivaroxaban use and potential adverse outcomes in routine clinical practice in the Netherlands

First published: 01/10/2015

Last updated: 23/04/2024

Study

Finalised

Administrative details

EU PAS number

EUPAS11141

Study ID

43223

DARWIN EU® study

No

Study countries

Netherlands

Study description

This prospective cohort study will provide information about: Characteristics of Rivaroxaban use in patients who are prescribed Rivaroxaban for the first time compared to patients who are prescribed standard of care for the first time The occurrence of intracranial haemorrhage, gastrointestinal and urogenital bleeding, and the occurrence of non-infective liver disease.

Study status

Finalised

Research institutions and networks

Institutions

The PHARMO Institute for Drug Outcomes Research (PHARMO Institute)

Netherlands

First published: 07/01/2022

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Institution

Non-Pharmaceutical company

ENCePP partner

Contact details

Study institution contact

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Study contact

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Primary lead investigator

Ron Herings

Primary lead investigator

Study timelines

Date when funding contract was signed

Actual: 30/01/2012

Study start date

Actual: 01/02/2012

Date of final study report

Actual: 26/11/2020

Sources of funding

- Pharmaceutical company and other private sector

More details on funding

Bayer HealthCare AG

Study protocol

[16646_PHARMO_Rivaroxaban protocol.pdf](#) (702.54 KB)

Regulatory

Was the study required by a regulatory body?

Yes

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

EU RMP category 1 (imposed as condition of marketing authorisation)

Methodological aspects

Study type

Study type list

Study topic:

Disease /health condition

Human medicinal product

Study type:

Non-interventional study

Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness

Drug utilisation

Effectiveness study (incl. comparative)

Data collection methods:

Secondary use of data

Main study objective:

To assess patterns of drug utilization and to quantify outcomes related to safety and effectiveness in new users of rivaroxaban compared with new users of standard of care in routine clinical practice in the Netherlands.

Study Design

Non-interventional study design

Cohort

Study drug and medical condition

Medicinal product name

XARELTO

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

RIVAROXABAN

Anatomical Therapeutic Chemical (ATC) code

(B01A) ANTITHROMBOTIC AGENTS

ANTITHROMBOTIC AGENTS

Medical condition to be studied

Venous thrombosis

Pulmonary embolism

Atrial fibrillation

Acute coronary syndrome

Population studied

Short description of the study population

All patients aged 2 years and above who have been registered in the database for at least 1 year before the index date will be included.

Age groups

- Children (2 to < 12 years)
 - 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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Special population of interest

Renal impaired

Estimated number of subjects

20000

Study design details

Outcomes

1. Descriptive analysis of demographic and clinical characteristics of patients who are prescribed oral rivaroxaban for the first time in comparison with those who are prescribed standard of care for the first time 2. Characteristics of rivaroxaban use in comparison with standard of care (NOTE: please refer to <https://clinicaltrials.gov/> for description of further primary outcomes), Safety: occurrence of bleeding events leading to hospitalization not specified as

primary safety outcomes ("other bleeding") in individuals receiving rivaroxaban, in comparison with those receiving current standard of care. (NOTE: please refer to <https://clinicaltrials.gov/> for description of further secondary outcomes)

Data analysis plan

For descriptive purposes, annualized crude incidence rates of the specified outcome events will be calculated, accompanied by 95% confidence intervals.

Documents

Study results

[EUPAS11141-43170.pdf](#) (152.16 KB)

Study report

[16646_Progress Report_v1.0_2019-01-28.pdf](#) (93.28 KB)

[EUPAS11141-43221.pdf](#) (592.92 KB)

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)

PHARMO Data Network

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

Check completeness

Unknown

Check stability

Unknown

Check logical consistency

Unknown

Data characterisation

Data characterisation conducted

No