The risk of infections associated with JAK inhibitors in rheumatoid arthritis: a protocol for a systematic review and meta-analysis

First published: 07/12/2020 Last updated: 02/04/2024



Administrative details

PURI

https://redirect.ema.europa.eu/resource/43019

EU PAS number

EUPAS35531

Study ID

43019

DARWIN EU® study

No

Study countries

Portugal

Study status

Planned

Research institutions and networks

Institutions

Association for Innovation and Biomedical Research on Light and Image (AIBILI)

First published: 01/02/2024

Last updated: 01/02/2024



Contact details

Study institution contact Carlos Alves

Study contact

calves@aibili.pt

Primary lead investigator Carlos Alves

Primary lead investigator

Study timelines

Date when funding contract was signed

Planned: 01/04/2020

Study start date Planned: 01/04/2020

Date of final study report Planned: 31/12/2020

Sources of funding

• Other

More details on funding

AIBILI

Regulatory

Was the study required by a regulatory body?

No

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

Not applicable

Methodological aspects

Study type

Study type list

Study type: Non-interventional study

Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness

Main study objective:

Assess the risk of infections associated with the use of JAK inhibitors in rheumatoid arthritis, as well as to explore risk variations due to risk factors, study designs and methodological quality of included studies

Study Design

Non-interventional study design

Systematic review and meta-analysis

Study drug and medical condition

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

BARICITINIB DECERNOTINIB FILGOTINIB MALEATE PEFICITINIB TOFACITINIB UPADACITINIB

Medical condition to be studied

Rheumatoid arthritis

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)

Estimated number of subjects

1000000

Study design details

Outcomes

Assess the risk of serious infections with the use of JAK inhibitors in rheumatoid arthritis

Data analysis plan

Odds ratios (ORs) and their 95% confidence intervals (CIs) will be pooled. The risk estimates will be considered statistically significant if the 95%CI do not contain the value 1. A network map linking all the pharmacological treatments will be formed. The network meta-analyses and forest-plot diagrams will be designed using a random-effects model. The inconsistency test will be conducted in order to assess the extent of disagreement between the direct and indirect evidence. A comparison-adjusted funnel plot will be used to test small-study effect and publication bias. For each outcome, treatments will be ranked according to the probability of being the safest (best) alternative using the surface under the cumulative ranking curve (SUCRA), expressed as a percentage. All the statistics will be performed using STATA (version 13.1.).

Documents

Study publications

Alves C, Penedones A, Mendes D, Batel-Marques F. Risk of infections and cardiov...

Data management

Data sources

Data sources (types)

Other

Data sources (types), other

Estimated obtained in previously conducted studies

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