Impact of EU label changes and revised pregnancy prevention programme for oral retinoid containing medicinal products: utilization and prescribing trends

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Administrative details

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Primary lead investigator

PURI

https://redirect.ema.europa.eu/resource/49667

EU PAS number

EUPAS31095

Study ID

49667

DARWIN EU® study

No

Study countries

Denmark France Italy Netherlands

Spain

Study description

Oral retinoids are used to treat dermatological conditions like severe acne vulgaris (isotretinoin) psoriasis (acitretin) and chronic hand eczema (alitretinoin), some oral retinoids are also used to treat skin manifestations of T-cell lymphoma (bexarotene) and acute promyelocytic leukaemia (tretinoin). All oral retinoids are highly teratogenic and must not be used during pregnancy. The aim of this study is to investigate the use of oral retinoid containing medicinal products authorised in the EU before and after implementation of the 2018 revised measures for pregnancy prevention in clinical practice.

Study status

Finalised

Research institution and networks

Institutions



The PHARMO Institute for Drug Outcomes Research (PHARMO Institute)

Netherlands



Danish National Registries Denmark, BIFAP Spain, FISABIO Valencia, Spain, Caserta Camania, Italy, Palermo Sicily, Italy, SNIRAM France

Networks

EU Pharmacoepidemiology and Pharmacovigilance (PE&PV) Research Network

Netherlands

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Network

Study timelines

Date when funding contract was signed

Planned: 25/02/2019 Actual: 25/02/2019

Data collection

Planned: 01/01/2010 Actual: 01/01/2010

Start date of data analysis

Planned: 01/08/2020

Date of final study report

Planned: 25/12/2021 Actual: 31/10/2022

Sources of funding

• EMA

Study protocol

Protocol Retinoids V0.5 19SEP2019.pdf(1.71 MB)

AMEND Protocol Retinoids V1.2 17DEC2021.pdf(1.34 MB)

Regulatory

Was the study required by a regulatory body? Yes

Is the study required by a Risk Management Plan (RMP)? Not applicable

Methodological aspects

Study type list

Study topic:

Human medicinal product

Study type:

Non-interventional study

Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness Drug utilisation

Data collection methods:

Secondary data collection

Main study objective:

This study will address the research question, "What was the effect of the EU label changes and the revised pregnancy prevention programme (2018) on utilization of oral retinoids and to what extent did prescribers and patients comply with recommendations?".

Study Design

Non-interventional study design

Cohort

Study drug and medical condition

Anatomical Therapeutic Chemical (ATC) code

10000095363 acitretin 100000095629 isotretinoin 100000095664 alitretinoin

Population studied

Short description of the study population

Female subjects of childbearing potential aged 12-55 years using oral retinoid containing medicinal products identified from the data sources of Netherlands, Denmark, Italy and Spain between 01 January 2010 and 31 December 2020.

Age groups

Adolescents (12 to < 18 years) Adults (18 to < 46 years) Adults (46 to < 65 years)

Special population of interest

Pregnant women

Estimated number of subjects 9000000

Study design details

Outcomes

- retinoid use (dispensing/prescription) (objective 1) - pregnancy test (objective 2) - contraceptive use (objective 2) - pregnancy (objective 3) - use of alternative medicines (objective 4), - reason for discontinuation of retinoids (objective 1)

Data analysis plan

1. Descriptive and hypothesis testing (objectives 1 through 4) - Incidence rates and quarteryear prevalences of outcomes will be calculated. - Interrupted time series analysis will be performed to test changes in outcomes before vs. after implementation of PRAC intervention. 2. Overall evaluation (objective 5) - The results of objectives 1-4 will be summarized qualitatively.

Documents

Results tables

Finalreports_retinoids_v2.1_SUMMARY.pdf(174.63 KB)

Study publications

Durán CE, Riera-Arnau J, Abtahi S, Pajouheshnia R, Hoxhaj V, Gamba M, Alsina E,... Sturkenboom, Miriam, Klungel, Olaf, Durán, Carlos E., Riera-Arnau, Judit, Abtah...

Data management

ENCePP Seal

This study has been awarded the ENCePP seal



Composition of steering group and observers

Information Dol and steering group EUPAS31095.pdf(140.4 KB)

Signed code of conduct

Declaration of Compliance with the ENCEPP Code of Conduct.pdf(71.22 KB)

Signed code of conduct checklist

Checklist for the ENCEPP Code of Conduct.pdf(390.09 KB)

Signed checklist for study protocols

ENCEPP Checklist for Study Protocols.pdf(402.38 KB)

Data sources

Data source(s)

Danish registries (access/analysis)

Caserta claims database

PHARMO Data Network

Base de Datos para la Investigación Farmacoepidemiológica en el Ámbito Público (Pharmacoepidemiological Research Database for Public Health Systems)

ARS Toscana

Data source(s), other

Danish Registries (access/analysis), Caserta database, PHARMO Data Network, BIFAP, ARS, FISABIO

Data sources (types)

Administrative data (e.g. claims)

Disease registry

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