DARWIN EU® - Drug Utilisation Study on Antibiotics in the 'Watch' category of the WHO AWaRe classification of antibiotics for evaluation and monitoring of use

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Administrative details

EU PAS number
EUPAS100000665
Study ID
1000000665
DARWIN EU® study
res
Study countries
Croatia
Denmark
Finland

France		
Germany		
Hungary		
Netherlands		
Spain		

Study description

The WHO 2023 AWaRe classification (who.int) of antibiotics for evaluation and monitoring of use classifies 258 antibiotics into 3 categories (Access/Watch/Reserve) according to their impact on antimicrobial resistance. The Watch list includes antibiotic classes that have higher resistance potential and includes most of the highest priority agents among the Critically Important Antimicrobials for Human Medicine and/or antibiotics that are at relatively high risk of selection of bacterial resistance. These medicines should be prioritized as key targets of stewardship programs and monitoring.

The DARWIN EU®_ P1-C1-003 study focused on the Watch category and this study is now repeated to include more recent data and more data sources. This study will improve our understanding of the use of antibiotics in the Watch category in routine health care delivery, including indication, treatment duration and trends over time. The results will contribute to the EU efforts to monitor use of antibiotics as part of the global fight against antimicrobial resistance.

Study status

Ongoing

Research institutions and networks

Institutions

Department of Medical Informatics - Health Data Science, Erasmus Medical Center (ErasmusMC)
☐ Netherlands
First published: 03/11/2022
Last updated: 02/05/2024
Institution

Networks

Data Analysis and Real World Interrogation Network
(DARWIN EU®)
Belgium
Croatia
☐ Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Italy
☐ Netherlands
Norway
Portugal

Spain
Sweden
United Kingdom
First published: 01/02/2024
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Network

Contact details

Study institution contact

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Study contact

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Primary lead investigator

Marzyeh Amini

Primary lead investigator

Study timelines

Date when funding contract was signed

Planned: 17/12/2024

Actual: 17/12/2024

Study start date

Planned: 16/05/2025

Actual: 16/05/2025

Date of final study report

Planned: 30/09/2025

Sources of funding

EMA

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

Study type list

Study topic:

Herbal medicinal product

Study type:

Non-interventional study

Scope of the study:

Drug utilisation

Data collection methods:

Secondary use of data

Main study objective:

- 1. To investigate the incidence of use of antibiotics (from the WHO AWaRe Watch category) stratified by age, sex, calendar year/month, and antibiotics class during the study period 2012-2024.
- 2. To characterise antibiotic (WHO AWaRe Watch category 2023) use by duration of use over the study period 2012 to 2024 stratified by calendar year and by antibiotics class.
- 3. To characterise antibiotic use (WHO AWaRe Watch category 2023) by indication of use over the period 2012 to 2024 stratified by calendar year and by antibiotics class.

Study Design

Non-interventional study design

Cohort

Study drug and medical condition

Name of medicine, other

All antibiotics on the WHO AWaRe watch category 2023

Population studied

Short description of the study population

The study domain includes all persons present in the data sources in the study period: 01/01/2012 to 31/12/2024 (or the latest available date) with at least 365 days observation time. This will be used as the denominator population for calculating incidence rates.

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 Data Warehouse of the Bordeaux University Hospital

Danish Health Data Registries

Hospital District of Helsinki and Uusimaa patient cohort (FinOMOP)

Institut Municipal d'Assistència Sanitària Information System / Hospital del Mar /

PSMAR / (Hospital del Mar Information System)

IQVIA Disease Analyzer Germany

Integrated Primary Care Information (IPCI)

Croatia National Public Health Information System (Nacionalni javnozdravstveni informacijski sustav)

The Information System for Research in Primary Care (SIDIAP)

Use of a Common Data Model (CDM)

CDM manning
Yes
CDM Mappings
CDM name
OMOP
CDM website
https://www.ohdsi.org/Data-standardization/
CDM version
https://ohdsi.github.io/CommonDataModel/index.html
Data quality specifications
Check conformance
Unknown
OTIKHOWH
Check completeness
Unknown
Check stability
Unknown

Check logical consistency

Unknown

Data characterisation

Data characterisation conducted

Unknown