DARWIN EU® Multiple myeloma: patient characterisation, treatments and survival in the period 2012-2022

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Administrative details

Contact details

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Primary lead investigator

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PURI

https://redirect.ema.europa.eu/resource/106363

EU PAS number

EUPAS105033

Study ID

106363

DARWIN EU® study

Yes

Study countries

Estonia

Finland

France

Germany

Netherlands

Spain

Study description

The overall objective of this study is to characterise patients with multiple myeloma diagnosed in the period 2012-2022. The specific objectives of this study are:

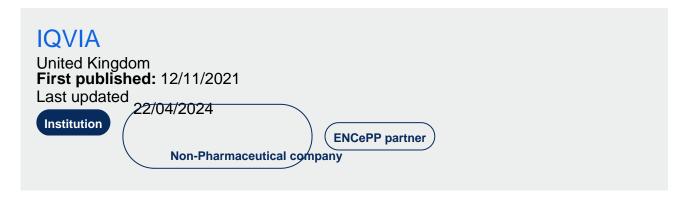
- 1. To describe demographic and clinical characteristics of patients with multiple myeloma at the time of diagnosis.
- 2. To describe multiple myeloma treatments (including combinations and regimen types, e.g. induction, maintenance, etc.).
- 3. To describe multiple myeloma treatment sequences.
- 4. To estimate the overall survival of incident multiple myeloma cases during the study period (2012-2022).

Study status

Finalised

Research institution and networks

Institutions



Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina, IDIAPJGol

Spain

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Clinical Data Science (IKNL), Netherlands Comprehensive Cancer Organisation

Netherlands

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Institution

ENCePP partner

Parc de Salut Mar Barcelona (PSMAR)

Spair

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Institution

Hospital/Clinic/Other health care facility

Hospital District of Southwest Finland (HSDF)

Finland

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Institution

Hospital/Clinic/Other health care facility

Bordeaux University Hospital (CHU de Bordeaux)

France

First published: 01/02/2024





Networks

Data Analysis and Real World Interrogation Network (DARWIN EU®)

Belgium

Croatia

Denmark

Estonia

Finland

France

Germany

Hungary

Netherlands

Norway

Portugal

Spain

United Kingdom

First published: 01/02/2024

Last updated 16/04/2024

Network

Study timelines

Date when funding contract was signed

Planned: 07/03/2023 Actual: 07/03/2023

Data collection

Planned: 01/01/2012 Actual: 01/01/2012

Date of final study report

Planned: 01/11/2023 Actual: 13/11/2023

Sources of funding

EMA

Study protocol

D2.2.3_Darwin_EU_Study_Protocol_P2 C1-001_v3.0_Final.pdf(684.53 KB)

DARWIN EU Final Study Protocol P2 C1-001 Multiple myeloma.pdf(1.46 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 type:

Non-interventional study

Scope of the study:

Disease epidemiology

Main study objective:

To characterise patients with multiple myeloma(MM) diagnosed 2012-2022. Specific objectives are to describe demographic and clinical characteristics of patients with MM at the time of diagnosis, MM treatments and MM treatment sequences and to estimate survival of incident MM cases during the study.

Study Design

Non-interventional study design

Cohort

Study drug and medical condition

Name of medicine, other

Etidronate (ATC code: M05BA01), Etidronate (ATC code: L01XH03)

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

AXICABTAGENE CILOLEUCEL

BORTEZOMIB

BREXUCABTAGENE AUTOLEUCEL

CARFILZOMIB

CISPLATIN

CYCLOPHOSPHAMIDE

DARATUMUMAB

DENOSUMAB

DEXAMETHASONE

ELOTUZUMAB

IDECABTAGENE VICLEUCEL

ISATUXIMAB

LENALIDOMIDE

LISOCABTAGENE MARALEUCEL

POMALIDOMIDE

SELINEXOR

THALIDOMIDE

TISAGENLECLEUCEL

VENETOCLAX

Anatomical Therapeutic Chemical (ATC) code

100000096036

dexamethasone

100000096041

prednisone

100000096617

cyclophosphamide

100000096619

melphalan

100000116251

bendamustine

100000096674

vincristine

100000096678

etoposide

100000096692

doxorubicin

100000096708

cisplatin

100000170636

elotuzumab

200000003285

daratumumab

200000012517

isatuximab

200000016136

carfilzomib

200000016137

ixazomib

200000028541

brexucabtagene autoleucel

200000030589

idecabtagene vicleucel

200000041609

lisocabtagene maraleucel

100000096761

bortezomib

100000173048

venetoclax

200000012111

selinexor

200000016155

axicabtagene ciloleucel

200000016156

tisagenlecleucel 100000096883 thalidomide 100000096885 lenalidomide 100000157885 pomalidomide 100000097109 clodronic acid 100000097110 pamidronic acid 100000097113 ibandronic acid 100000097115 zoledronic acid 100000116261 denosumab

Medical condition to be studied

Plasma cell myeloma Plasmacytoma

Additional medical condition(s)

Amyloid light chain amyloidosis due to multiple myeloma, Asymptomatic multiple myeloma, Bone marrow: myeloma cells, Extramedullary plasmacytoma, Hypogammaglobulinemia due to multiple myeloma, IgA myeloma, IgD myeloma, IgG myeloma, Indolent multiple myeloma, Kappa light chain myeloma, Lambda light chain myeloma, Light chain myeloma, Light chain myeloma, Multiple myeloma, Multiple myeloma, Multiple myeloma in remission, Multiple solitary plasmacytomas, Myeloma-associated amyloidosis, Myeloma kidney, Neuropathy due to multiple myeloma, Non-secretory myeloma, Osteoporosis co-occurrent and due to multiple myeloma, Osteosclerotic myeloma, Plasma cell leukemia, Plasma cell leukemia in relapse, Plasma cell leukemia in remission, Primary cutaneous plasmacytoma, Relapse multiple myeloma, Smoldering myeloma, Solitary osseous myeloma

Population studied

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)

Estimated number of subjects 20000000

Study design details

Outcomes

Treatment/s initiated at index date, 1 to 30, 1 to 90 and/or 1 to 365 days post index date, and death.

Data analysis plan

Large-scale patient-level characterisation will be conducted. Age and sex at time of multiple myeloma diagnosis, medical history and medication use will be described. The number and % of patients receiving each of a pre-specified list of multiple myeloma treatments and treatment combinations will also be described. Additionally, treatment patterns and sequences over time will be described. Survival will be estimated as the probability of survival from any cause of death and will be reported using Kaplan-Meier plots. This analysis will be conducted only for databases with complete information on mortality. A minimum cell count of 5 will be used when reporting results, with any smaller counts obscured.

Documents

Results tables

DARWIN_EU_D2.2.4_Study Report_P2-C1-001_Multiple_Myeloma_v3.0.pdf(4.08 MB)

Study, other information

Study Protocol P2 C1-001 Version 3.1 final.pdf(1.49 MB)

Data management

Data sources

Data source(s)

The Information System for Research in Primary Care
Disease Analyzer Germany
Institut Municipal d'Assistència Sanitària Information System
Estonian Biobank
Auria Clinical Informatics
Clinical Data Warehouse of the Bordeaux University Hospital

Netherlands Cancer Registry

Data sources (types)

Disease registry
Electronic healthcare records (EHR)

Other

Data sources (types), other

Hospital data and biobank data

Use of a Common Data Model (CDM)

CDM mapping

Yes

Data quality specifications

Check conformance

Unknown

Check completeness

Unknown

Check stability

Unknown

Check logical consistency

Unknown

Data characterisation

Data characterisation conducted

No