### DARWIN EU® Natural history of dermatomyositis (DM) and polymyositis (PM) in adults and paediatric populations

First published: 13/11/2023

**Last updated:** 25/09/2024





### Administrative details

| EU PAS number    |  |
|------------------|--|
| EUPAS107454      |  |
| Study ID         |  |
| 107455           |  |
|                  |  |
| DARWIN EU® study |  |
| Yes              |  |
| Study countries  |  |
| Estonia          |  |
| France           |  |
| Germany          |  |
| Spain            |  |

| United | Kingdom |
|--------|---------|
|--------|---------|

### **Study description**

The overall objective of this study is to describe and characterise dermatomyositis (DM), polymyositis (PM) and their juvenile forms (JDM and JPM), in terms of prevalence, natural history of the disease, disease severity, and treatment. The specific objectives of this study are to estimate the yearly prevalence of DM and PM in adult and paediatric populations, overall and by sex, to characterise patients and describe age at disease onset for DM, PM, JDM and JPM, to describe the occurrence in adults and children of biomarker measurements and clinical manifestations and to describe disease severity including organ involvement before, at the time, and after a diagnosis of DM, PM, JDM and JPM. Additionally, the objective of the study is to describe treatment administered after a diagnosis of DM, PM, JDM and JPM.

### **Study status**

Finalised

### Research institutions and networks

### Institutions



# Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina, IDIAPJGol Spain First published: 05/10/2012 Last updated: 23/05/2025 Institution Educational Institution Laboratory/Research/Testing facility Not-for-profit ENCEPP partner

## University of Bordeaux France First published: 01/02/2024 Last updated: 01/02/2024 Institution Educational Institution

University of Oxford, United Kingdom

### **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 |
| Last updated: 30/04/2025    |
| Network                     |

### Contact details

Study institution contact

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Study contact

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### **Primary lead investigator**

### Albert Prats Uribe

**Primary lead investigator** 

### Study timelines

### Date when funding contract was signed

Planned: 26/07/2023 Actual: 26/07/2023

### Study start date

Planned: 01/01/2006 Actual: 01/01/2006

### **Date of final study report**

Planned: 30/11/2023 Actual: 21/11/2023

### Sources of funding

EMA

### Study protocol

DARWIN EU Final Study Protocol P2 C1-007 DM and PM.pdf(1.71 MB)

Darwin\_EU\_Study\_Protocol\_P2-C1-007\_v1.1final.pdf(1.67 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

### Study type list

### **Study type:**

Non-interventional study

### Scope of the study:

Disease epidemiology

### Main study objective:

The overall objective of this study is to describe and characterise dermatomyositis (DM), polymyositis (PM) and their juvenile forms (JDM and JPM), in terms of prevalence, natural history of the disease, disease severity, and treatment.

### Study Design

### Non-interventional study design

Cohort

### Study drug and medical condition

### Name of medicine, other

- Prednisone
- Cyclosporine (ATC code: L04AD01)
- Beta interferone -1a
- Beta interferone-1b
- Inmunoglobulines
- Brimionidine

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

**ABATACEPT** 

**ADALIMUMAB** 

**AZATHIOPRINE** 

**BASILIXIMAB** 

**CHLOROQUINE** 

**CYCLOPHOSPHAMIDE** 

**ECULIZUMAB** 

**ETANERCEPT** 

**HYDROXYCHLOROQUINE** 

**INFLIXIMAB** 

**METHOTREXATE** 

**METHYLPREDNISOLONE** 

MYCOPHENOLATE MOFETIL

**RITUXIMAB** 

**TACROLIMUS** 

### **Anatomical Therapeutic Chemical (ATC) code**

(A07EA03) prednisone

prednisone

(H02AB04) methylprednisolone

methylprednisolone

(J06BA) Immunoglobulins, normal human

Immunoglobulins, normal human

(L01AA01) cyclophosphamide

cyclophosphamide

(L01FA01) rituximab

rituximab

(L03AB07) interferon beta-1a

interferon beta-1a

(L03AB08) interferon beta-1b

interferon beta-1b

(L04AA06) mycophenolic acid

mycophenolic acid

(L04AA24) abatacept

abatacept

(L04AA25) eculizumab

eculizumab

(L04AB01) etanercept

etanercept

(L04AB02) infliximab

infliximab

(L04AB04) adalimumab

adalimumab

(L04AC02) basiliximab

basiliximab

(L04AD02) tacrolimus

tacrolimus

(L04AX01) azathioprine

azathioprine

(L04AX03) methotrexate

methotrexate

(P01BA01) chloroquine

chloroquine

(P01BA02) hydroxychloroquine

hydroxychloroquine

(S01EA05) brimonidine

brimonidine

### Medical condition to be studied

Dermatomyositis

Polymyositis

Juvenile polymyositis

### Additional medical condition(s)

Juvenile dermatomyositis, Neonatal dermatomyositis

### Population studied

### Age groups

Preterm newborn infants (0 - 27 days)

Term newborn infants (0 – 27 days)

Infants and toddlers (28 days - 23 months)

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)

### **Estimated number of subjects**

19500000

### Study design details

### Data analysis plan

Point prevalence of each outcome of interest (DM, PM, JDM, JPM), with every individual deemed to have the diagnosis from first occurrence until end of follow-up calculated on an annual basis as of the 1st January for each year, estimated overall and stratified by age and sex. Age and sex at time of DM, PM, JDM, JPM diagnosis (index date) will be described for each of the generated study cohorts (Objective 2). Large-scale patient-level characterisation will be conducted for objectives 3 to 5. Occurrence of co-morbidities, measurements, clinical manifestations, and severity markers will be assessed for anytime –and up to 365 days before index date, for 364 to 91, for 90 to 31, and for 30 to 1 day before index date, and at index date. We will also report them for 1 to 90, 91 to 180, 181 to 365 days, 366 to 1095, 1096 to 1825 days, and 1826 days to any time post index date.

### **Documents**

### Study results

DARWIN EU Final Study Report C1-007 DM and PM.pdf(5.48 MB)

### Data management

### Data sources

### Data source(s)

The Information System for Research in Primary Care (SIDIAP)

IQVIA Disease Analyzer Germany

Clinical Data Warehouse of the Bordeaux University Hospital

Clinical Practice Research Datalink (CPRD) GOLD

Estonian Biobank

### **Data sources (types)**

Electronic healthcare records (EHR)

Other

### Data sources (types), other

Secondary care, Outpatient specialist setting, Hospital care

### Use of a Common Data Model (CDM)

### **CDM** mapping

Yes

### **CDM Mappings**

### **CDM** name

**OMOP** 

### **CDM** website

https://www.ohdsi.org/Data-standardization/

### Data quality specifications

### Unknown Check completeness Unknown

### **Check stability**

**Check conformance** 

Unknown

### **Check logical consistency**

Unknown

### Data characterisation

### **Data characterisation conducted**

No