Measurement of the effectiveness of statins in vascular morbidity and mortality reduction in the population without history of vascular disease but with intermediate risk and ankle-brachial Index < 0.9 in primary care setting (MARIA study)

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### Administrative details

#### **EU PAS number**

EUPAS4088

Study ID

4089

**DARWIN EU® study** 

No

**Study countries** 

Spain
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### **Study description**

Objective: To evaluate the effectiveness of statin therapy to reduce the incidence of vascular disease in patients with unknown history of vascular disease with intermediate cardiovascular risk (5-15% at 10 years) and abnormal ankle-brachial index (<0.9). Design: Population matched cohort on the basis of propensity score. Data were obtained from the Information System for the Development of Primary Care Research whose primary source of data is the the electronic health records (e-CAP) of the Institut Català de la Salut. Subjects: Population from 35 to 74 years without known vascular disease and with intermediate cardiovascular risk and ankle-brachial index < 0.9 (3684 subjects in exposed cohort and 7368 in unexposed cohort). The recruitment period will be guarantee at least 3 years of follow-up. Variables: New statin users are defined according to the criteria of compliance (> 80%) and persistence (> 6 months) and with no invoicing data in the six months before the entry of the cohort. Outcomes: incidence of major cardiovascular events defined as cerebrovascular disease (fatal or not), myocardial infarction (fatal or not), unstable angina, revascularization, intermittent claudication, peripheral arterial disease diagnosis or gangrene and amputation. Moreover, death from any cause will be registered. Independent variables: demographic variables, presence of risk factors, other comorbidities, complementary tests and other drug treatments. Statistical analysis: Time varying Cox regression models will be performed to estimate the incidence of outcomes of interest adjusted for the variable start of treatment and dose (time-dependent variables) and other variables associated with the occurrence of vascular events. We will also calculate estimates of risk reduction and the number needed to treat.

#### Study status

Finalised

### Research institutions and networks

### Institutions



## Contact details

### Study institution contact

Rafel Ramos rramos.girona.ics@gencat.cat

Study contact

rramos.girona.ics@gencat.cat

### **Primary lead investigator**

Rafel Ramos

Primary lead investigator

## Study timelines

### Date when funding contract was signed

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

### Study start date

Planned: 01/04/2010 Actual: 01/12/2010

### Date of final study report

Planned: 31/12/2013 Actual: 05/05/2013

## Sources of funding

• Other

## More details on funding

Health Ministry

## Regulatory

Was the study required by a regulatory body?

No

# Methodological aspects

Study type

Study type list

### **Study topic:**

Human medicinal product

Disease /health condition

### Study type:

Non-interventional study

### Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness Effectiveness study (incl. comparative)

#### **Data collection methods:**

Secondary use of data

### Main study objective:

Objective: To evaluate the effectiveness of statin therapy to reduce the incidence of vascular disease in patients with unknown history of vascular disease with intermediate cardiovascular risk (5-15% at 10 years) and abnormal ankle-brachial index (<0.9).

## Study Design

### Non-interventional study design

Cohort

# Study drug and medical condition

#### Medical condition to be studied

Acute myocardial infarction

## Population studied

### Short description of the study population

Population from 35 to 74 years without known vascular disease and with intermediate cardiovascular risk and ankle-brachial index < 0.9.

### Age groups

Adults (46 to < 65 years)

Adults (65 to < 75 years)

Adults (75 to < 85 years)

Adults (85 years and over)

#### **Estimated number of subjects**

6000

## Study design details

#### **Outcomes**

Acute myocardial infarction, stroke, coronary revascularization, cardiovascular and global mortality, statin adverse effects

#### Data analysis plan

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ankle-brachial index <0.9 (3684 subjects in exposed cohort and 7368 in unexposed cohort). The recruitment period will be guarantee at least 3 years of follow-up. Statistical analysis: Time varying Cox regression models will be performed to estimate the incidence of outcomes of interest adjusted for the variable start of treatment and dose (time-dependent variables) and other variables associated with the occurrence of vascular events. We will also calculate estimates of risk reduction and the number needed to treat.

## 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)

The Information System for Research in Primary Care (SIDIAP)

#### Data source(s), other

**SIDIAP** 

### Data sources (types)

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