Estimating prevalence and incidence of acute myocardial infarction in a set of heterogeneous sources of observational health data collaborating in the EMIF Platform

**First published:** 12/07/2016

**Last updated:** 22/02/2024





# Administrative details

EU PAS number	
EUPAS14060	
Study ID	
28093	
DARWIN EU® study	
No	
Study countries	
Denmark	
Estonia	

Italy	
Netherlands	
Spain	
United Kingdom	

### Study description

The European Medical Information Framework (EMIF) project has the main objective of building an infrastructure for the efficient re-use of existing health care data for epidemiological research. Within the project, the EMIF-Platform represents a federation of heterogeneous sources of health data (e.g. administrative, hospital or primary care databases, disease registries, biobanks). One of the major challenges for the EMIF project is to deal with the different characteristics of the participating data sources in order to facilitate the execution of large multi-national, multi-data source observational studies and generate high quality evidence. For this purpose, a template data derivation procedure was specifically developed. In this proof-of-concept study, the standard procedure will be applied for the identification of patients with acute myocardial infarction (AMI) in a set of heterogeneous sources of observational health data. Validity indices (sensitivity, PPV) of the data sourcetailored case-finding algorithms will be estimated from available evidence, and adjusted prevalence and incidence of AMI will be estimated from the participating data sources.

# **Study status**

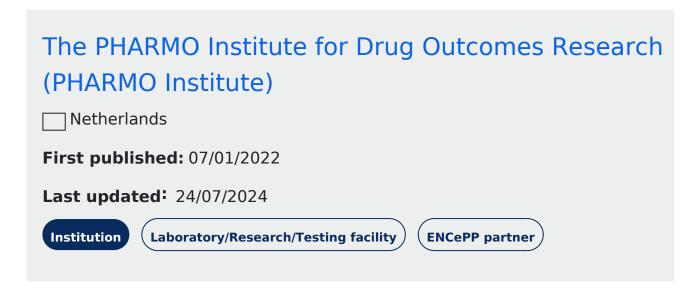
Ongoing

Research institutions and networks

**Institutions** 

Agenzia regionale di sanità della Toscana (ARS)
First published: 01/02/2024
Last updated: 12/03/2024
Institution
Epidemiology (Rotterdam Study), Erasmus Medical Center (ErasmusMC)  Netherlands
First published: 13/01/2015
<b>Last updated:</b> 29/10/2015
Institution
Health Search, Italian College of General Practicioners  Italy  First published: 02/03/2010  Last updated: 20/08/2024  Institution Educational Institution Other

# 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 Tartu

**Estonia** 

First published: 01/02/2024

**Last updated:** 01/02/2024

Institution

**Educational Institution** 

# Aarhus University & Aarhus University Hospital DEPARTMENT OF CLINICAL EPIDEMIOLOGY

Denmark

**First published:** 20/07/2021

**Last updated:** 02/04/2024

Institution

**Educational Institution** 

ENCePP partner

# **Aarhus University Hospital**

**First published:** 01/02/2024

Last updated: 01/02/2024

Institution

IMIM-Hospital del Mar Medical Research Institute and Universitat Pompeu Fabra Barcelona, Spain, The Health Improvement Network, Cegedim Strategic Data Medical Research Ltd London, United Kingdom, Quretec, Software Technology and Applications Competence Center, University of Tartu Tartu, Estonia, Department of Clinical Epidemiology, Aarhus University Hosptial Aarhus, Denmark

# **Networks**

European Medical Information Framework (EMIF)

European Union

First published: 01/02/2024

**Last updated:** 12/03/2024

Network

# Contact details

## **Study institution contact**

Roberto Giuseppe giuseppe.roberto@ars.toscana.it

Study contact

giuseppe.roberto@ars.toscana.it

# **Primary lead investigator**

Roberto Giuseppe

**Primary lead investigator** 

# Study timelines

# Date when funding contract was signed

Planned: 01/01/2013

Actual: 01/01/2013

### Study start date

Planned: 21/11/2016

Actual: 01/02/2017

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

Planned: 31/07/2019

# Sources of funding

Other

# More details on funding

# Study protocol

Protocol AMI v1.1.pdf(180.4 KB)

Protocol\_AMI\_v1.2.pdf(179.78 KB)

# Regulatory

Was the study required by a regulatory body?

No

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

Other

### If 'other', further details on the scope of the study

To test a data derivation procedure designed to identify any event of interest from data sources with heterogeneous characteristics

### Main study objective:

Estimating prevalence and incidence of acute myocardial infarction in a setheterogeneous sources of observational health data collaborating in the EMIF Platform in order to test a standard data derivation procedure designed to facilitate the execution of multi-national, multi-data source studies

# Study Design

## Non-interventional study design

Cohort

# Study drug and medical condition

### Medical condition to be studied

Acute myocardial infarction

# Population studied

### 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**

1000000

# Study design details

### Data analysis plan

The study population in each participating data source will include all active subjects at 1st January 2013 (cohort entry) with at least 365 days of look-back. Prevalence and incidence of AMI observed between 1st January and 31st December 2013 will be calculated in each participating data sources according to different case definitions.

# Data management

# Data sources

### Data source(s)

THIN® (The Health Improvement Network®)

Danish registries (access/analysis)

Health Search/IQVIA Health Longitudinal Patient Database

Integrated Primary Care Information (IPCI)

The Information System for Research in Primary Care (SIDIAP)

PHARMO Data Network

ARS Toscana

### Data source(s), other

IMASIS Spain, EGCUT Estonia

### Data sources (types)

Administrative healthcare records (e.g., claims)

Drug dispensing/prescription data

Electronic healthcare records (EHR)

Other

### Data sources (types), other

Biobank collecting clinical information from donors of biological samples-Hospital data source collecing information from inpatient care

# 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