# Finnish AntiCoagulation in Atrial Fibrillation (FinACAF)

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# Administrative details

### **EU PAS number**

EUPAS29845

### Study ID

39871

#### DARWIN EU® study

No

**Study countries** 

Finland

### Study status

Finalised

### Research institutions and networks

### Institutions

Helsinki University Hospital (HYKS)

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Turku University Hospital Turku, Finland, Aalto University Espoo, Finland

### **Contact details**

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Primary lead investigator Mika Lehto

Primary lead investigator

### Study timelines

**Date when funding contract was signed** Planned: 24/12/2018 Actual: 01/01/2019

**Study start date** Planned: 02/09/2019 Actual: 02/09/2019

Data analysis start date Planned: 01/01/2020

Date of final study report Planned: 03/08/2020 Actual: 10/03/2021

### Sources of funding

- Non-for-profit organisation (e.g. charity)
- Other

### More details on funding

EVO HUS, Koskelo foundation, Finnish foundation for cardiovascular research

# Study protocol

Tutkimussuunnitelma\_FinACAF\_21052015.pdf(265.82 KB)

Tutkimussuunnitelma\_FinACAF\_02032021.pdf(326.25 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 topic:

Human medicinal product Disease /health condition

### Study type:

Non-interventional study

### Scope of the study:

Assessment of risk minimisation measure implementation or effectiveness

Disease epidemiology

Drug utilisation

Effectiveness study (incl. comparative)

### Data collection methods:

Secondary use of data

### Main study objective:

To investigate risk of stroke, systemic thromboembolism, bleeding events and myocardial infarction among AF patients in relation to different OAC treatments including warfarin treatment with the data of different TTR levels compared also with patients without any OAC treatment.

# Study Design

### Non-interventional study design

Cohort

### Study drug and medical condition

### Anatomical Therapeutic Chemical (ATC) code

(B01AA03) warfarin warfarin (B01AF) Direct factor Xa inhibitors Direct factor Xa inhibitors (B01AE07) dabigatran etexilate dabigatran etexilate

### Medical condition to be studied

Atrial fibrillation

### **Population studied**

### Short description of the study population

The study cohort consists of patients from six hospital district areas having a diagnosis of AF. The included geographically defined hospital districts are Northern Ostrobotnia, Northern Savonia, Central Finland, Pirkanmaa, Southwest, and Helsinki and Uusimaa.

#### Inclusion Criteria

Patients fulfilling the following criteria are included in the study:

• patient has an International Classification of Diseases (ICD-10 version 10) diagnosis code I48 for AF during 1.1.2004-30.06.2018 in any of the used registries

#### **Exclusion Criteria**

• Patients with permanent residence in Finland less than 12 months prior to index date.

• Patients with age below 18 years at index date.

### Age groups

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)

### **Special population of interest**

Other

### Special population of interest, other

Atrial fibrillation patients

#### Estimated number of subjects

180000

### Study design details

#### Outcomes

Stroke, Other systemic thromboembolic events excluding stroke, Myocardial infarction, Bleeding events, Mortality (all-cause), Mortality (stroke), Mortality (myocardial infarction), Mortality (systemic thromboembolic events excluding stroke), Mortality (bleeding events), Anemia, renal impairment, use of blood products

#### Data analysis plan

Stratified incidence rates with 95% CIs will be estimated for each endpoint within the strata of the time in therapeutic INR range (TTR) categories, and other covariates. The crude and adjusted hazard ratio (HR) estimates with 95% CIs and P-values will be estimated within the TTR categories and NOACs and patients without any anticoagulation using the conventional Cox's proportional hazards model adjusting for other covariates

### 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 sources (types)

Administrative healthcare records (e.g., claims) Disease registry Drug dispensing/prescription data Drug registry Electronic healthcare records (EHR) Other

#### Data sources (types), other

Prescription event monitoring, National Reimbursement Register, Finnish Care Register, National Causes of Death Register, Finnish Cancer Registry. National Prescription Register, Laboratory databases of Finnish Hospital districts, Population Register, Social HILMO, Finnish Tax Register, The Finnish Register of Completed Education and Degrees

### 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