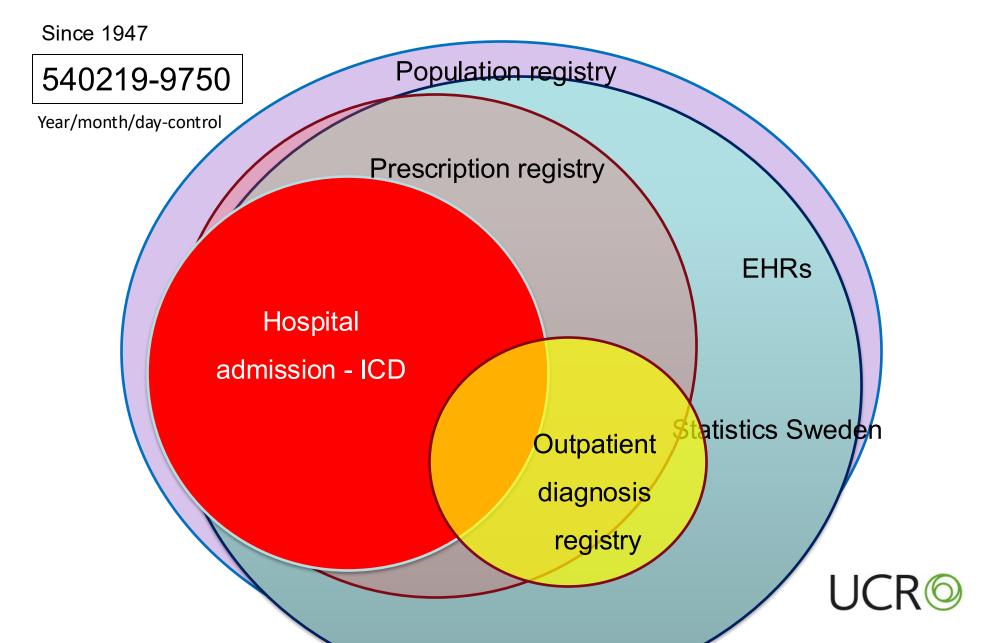
# **EUROHEART:**a tool to analyze ACS treatment across **Europe and harmonize strategies**



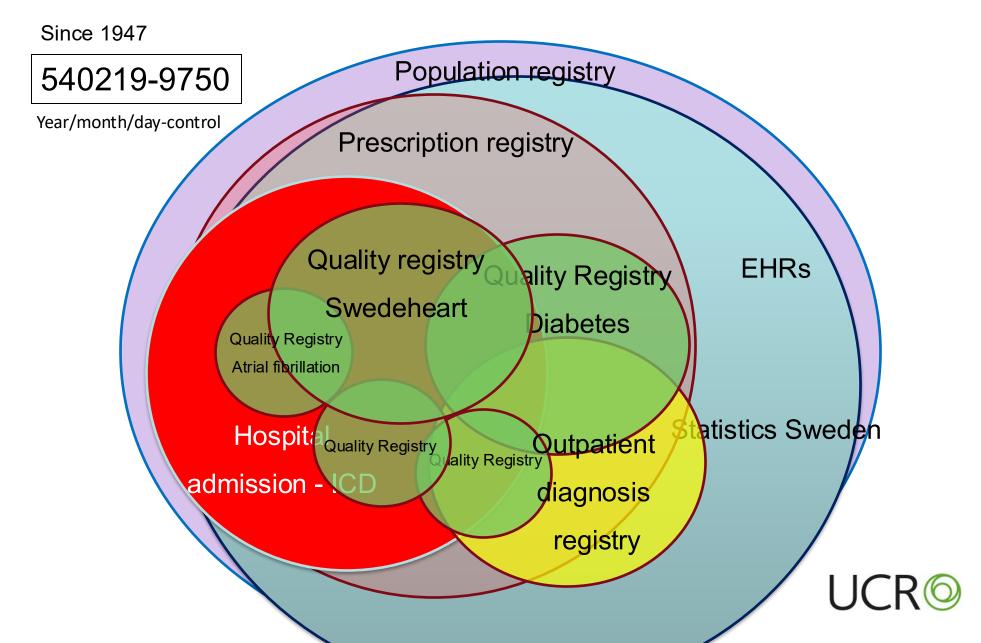




# Data bases in Sweden based on personal number with patient characteristics, treatments and outcomes



# Data bases in Sweden based on personal number with patient characteristics, treatments and outcomes





Number of cases annually: > 80 000

RIKS-HIA 73 CCU hospitals, 100%

SCAAR 30 PCI hospitals, 100%

Percutaneous valves 7 hospitals, 100%

Heart surgery 7 hospitals, 100%

Secondary prevention 67 hospitals, 85%

Cardio genetics 5 university hospitals

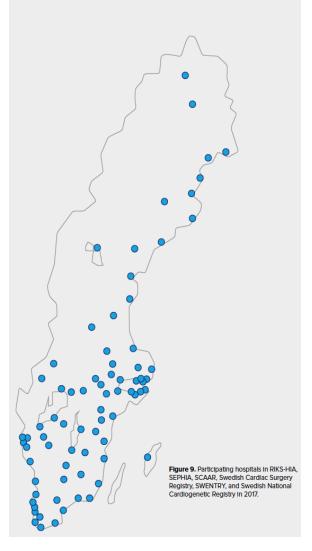
Cardiac CT 10 large hospitals

Continuous bio banking 3 university hospitals

>300 variables - baseline, procedural, outcomes

At monitoring: 95-96% agreement.







#### A shared 10 year vision for Swedish healthcare

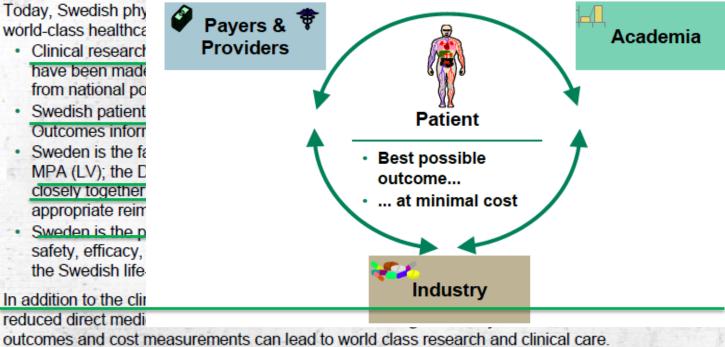


#### Swedish healthcar

In the past 10 years Today, Swedish phy world-class healthca

- Clinical research have been made from national po
- Swedish patient Outcomes inforr
- Sweden is the fa MPA (LV); the D closely together appropriate reim
- Sweden is the n safety, efficacy, the Swedish life

In addition to the clir reduced direct mediExamples for all stakeholders on following pages



gust 18, 2019

alized medicine. tools to deliver e characteristics: nical breakthroughs h high quality data

uality of care.

The Swedish centers work ciently determine

host-approval reinvigoration of

~50 BSEK in eager to learn how



### MI quality index 2004

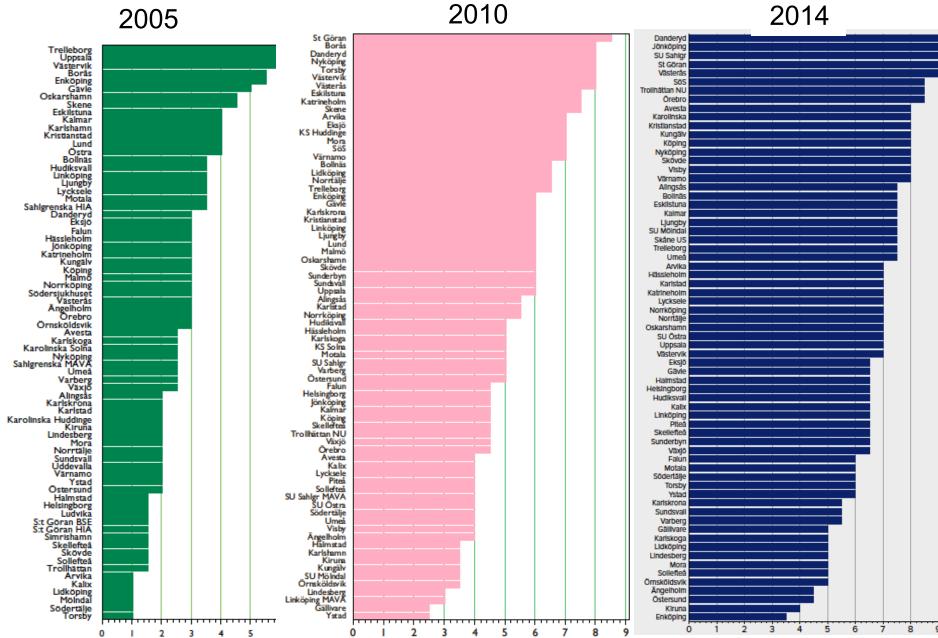


Quality indikator	0,5 points	1 points
Reperfusion for STEMI/LBBB.	80%	85%
Reperfusion for STEMI/LBBB within recommended time (PCI within 90 min and thrombolysis within 30 min)	75%	90%
Coronary angiogram for target population with NSTEMI	75%	80%
LMW Heparin/ Heparin/ Fondaparinux for NSTEMI	90%	95%
ASA, other platelet inibitor or anticoag for MI	90%	95%
P2Y12-blocker for NSTEMI	85%	90%
Betablocker for MI.	85%	90%
Lipid lowerer post MI	90%	95%
ACEinh/ARB for target population post MI.	85%	90%

UCR<sub>©</sub>

2004

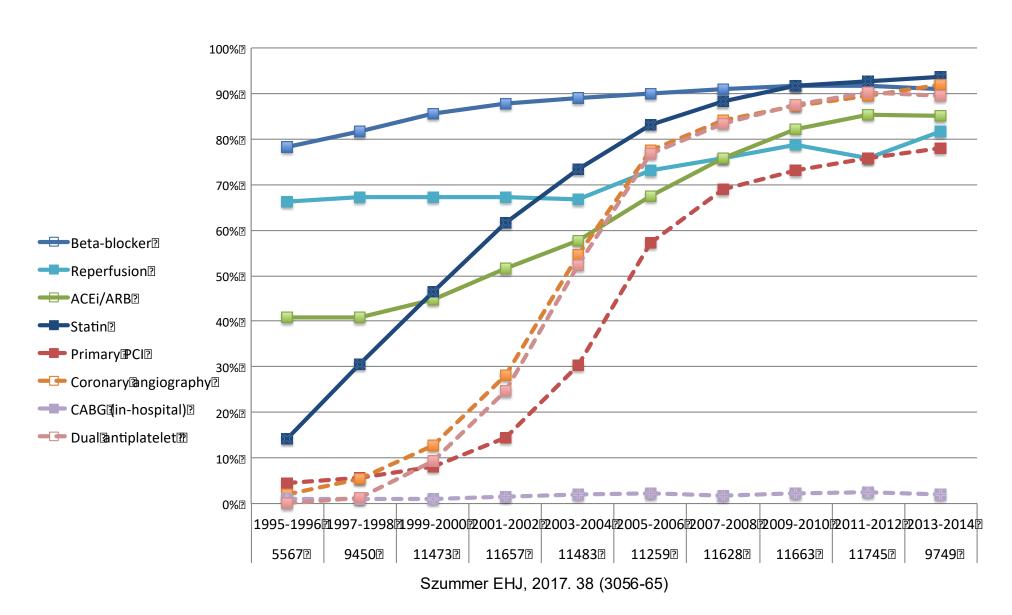
Hospital 1 Hospital 2 Hospital 3 Hospital 4 Etc...







#### **Treatments STEMI**

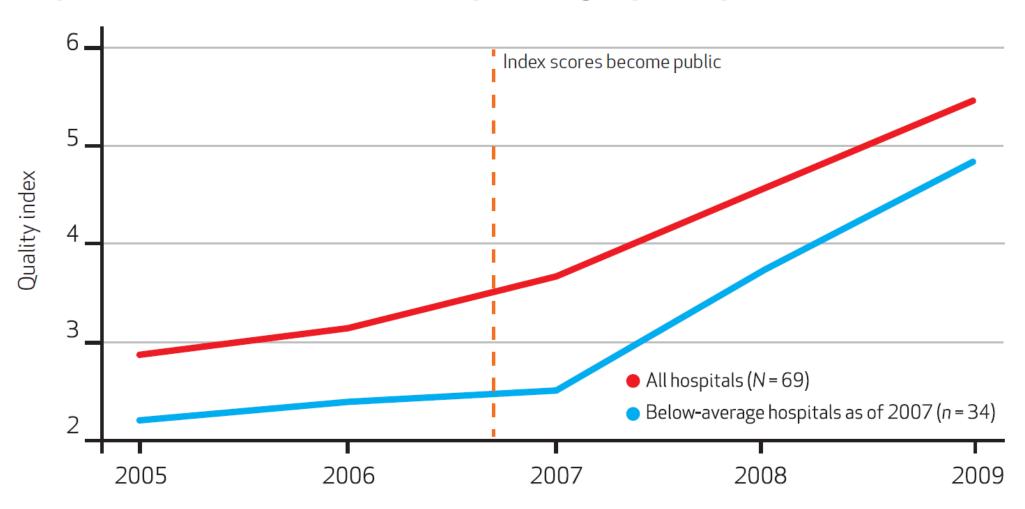






#### Association to start of public reporting

#### Hospital Scores On The Swedish Coronary Care Registry Quality Index, 2005-09



Larsson et al. Health Affairs 2012; 31(1)

#### **Comparative effectiveness**

Hospitals' 30 day mortality rates for acute myocardial infarction and between hospital variation in mortality were greater in the UK than in Sweden

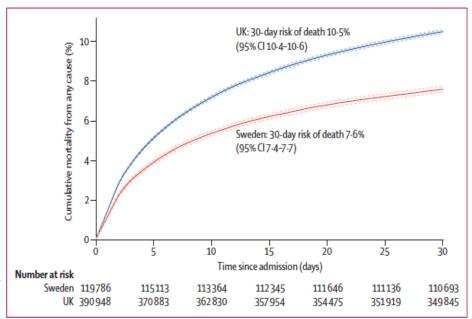
This was associated with, and may be partly accounted for by, the greater variation in practice as regards guideline recommended treatment for acute myocardial infarction in the UK hospitals

More consistent healthcare across all hospitals with better use of guideline recommended treatment may not only reduce practice variation but also deliver improved clinical outcomes for patients with acute myocardial infarction



Acute myocardial infarction: a comparison of short-term survival in national outcome registries in Sweden and the UK

Sheng-Chia Chung, Rolf Gedeborg, Owen Nicholas, Stefan James, Anders Jeppsson, Charles Wolfe, Peter Heuschmann, Lars Wallentin, John Deanfield, Adam Timmis, Tomas Jernberg, Harry Hemingway



the bmj | BMJ 2015;351:h3913 | doi: 10.1136/bmj.h3913

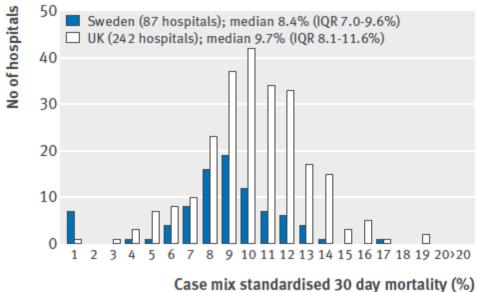


Fig 4 | Hospital variation in case mix standardised 30 day mortality (%) in Sweden and UK, 2004-10

#### **EuroHeart**

**Annual Report 2024** 

from the ACS & PCI registries

based on

7 countries

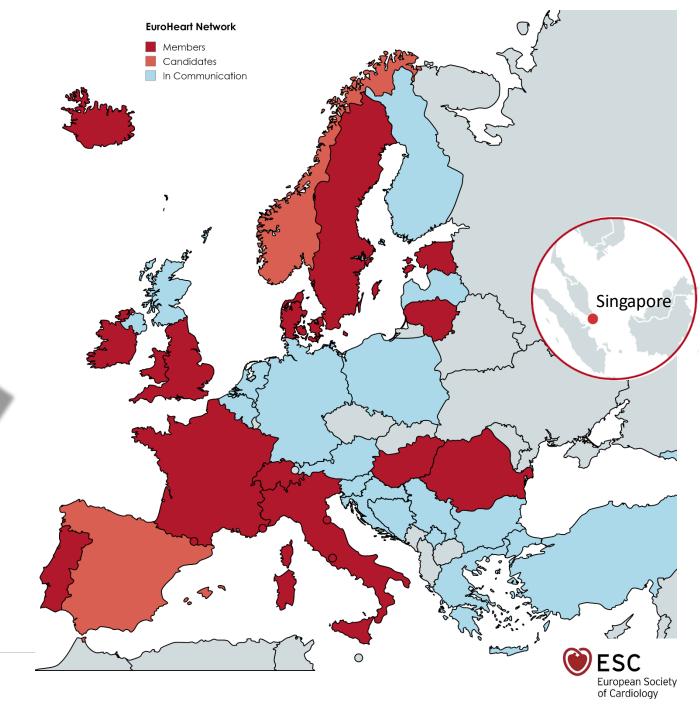
26,022 STEMI & 37,739 NS FMI

**Annual Report 2025** 

Hotline ESC-25 from the ACS & PCI registries

based on

- 14 countries
- 65.000 STEMI & 113.000 NSTEMI



#### **EuroHeart**

#### **Annual Report 2024**

#### from the ACS & PCI registries

#### based on

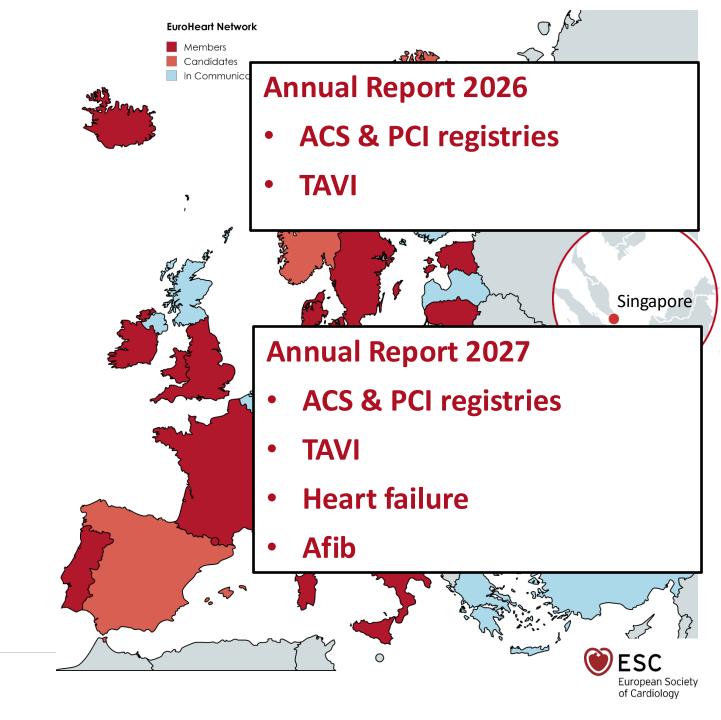
- 7 countries
- 26,022 STEMI & 37,739 NSTEMI

#### **Annual Report 2025**

ACS & PCI registries

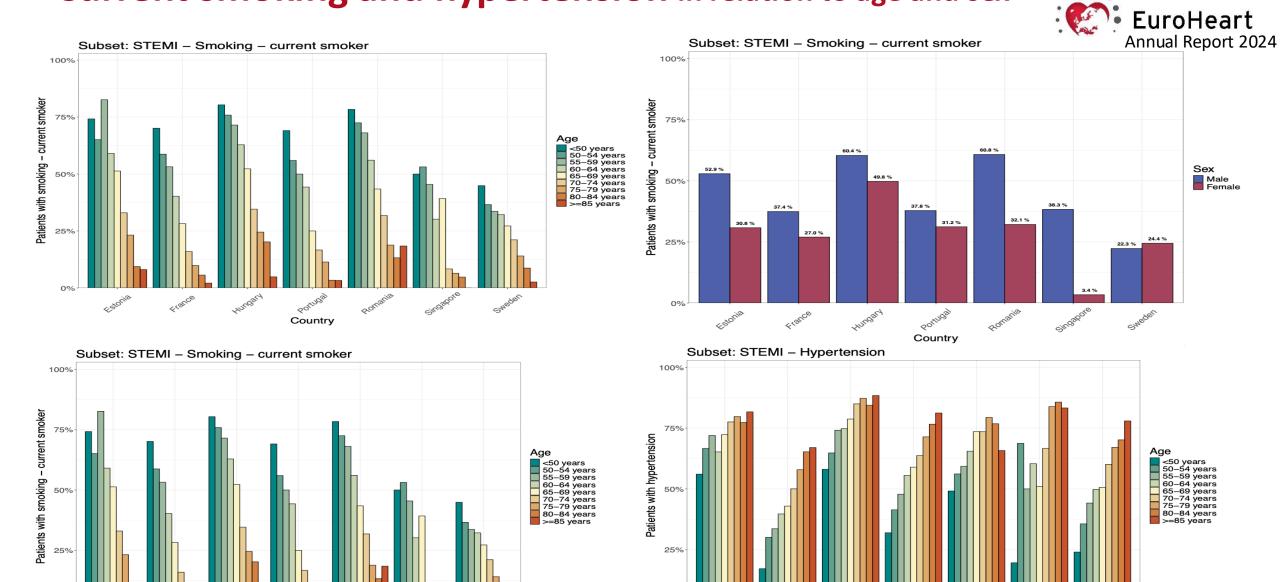
#### based on

- 14 countries
- 65.000 STEMI & 113.000 NSTEMI



### Current smoking and hypertension in relation to age and sex

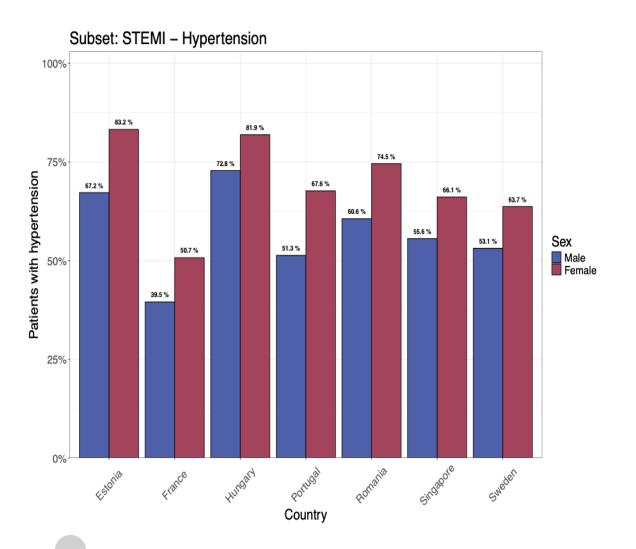
Country

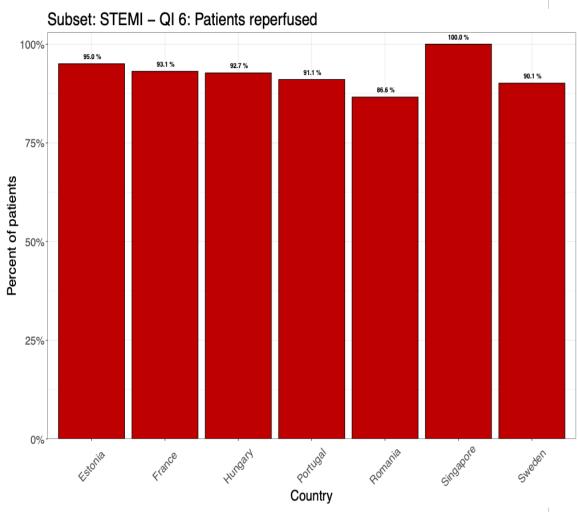


Country

## Quality indicators on reperfusion in STEMI

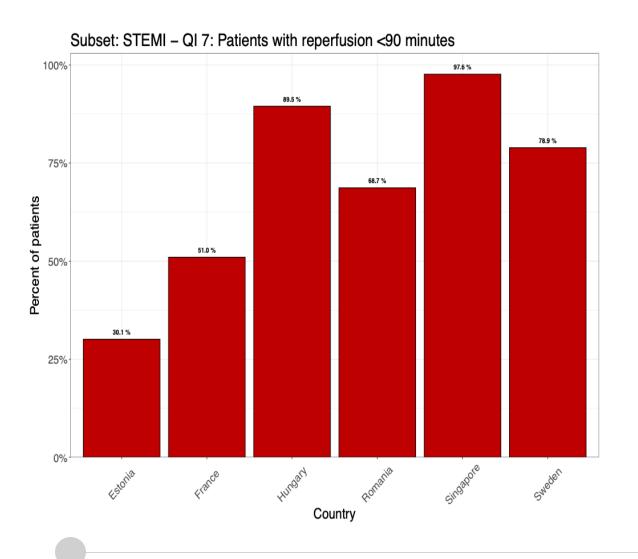


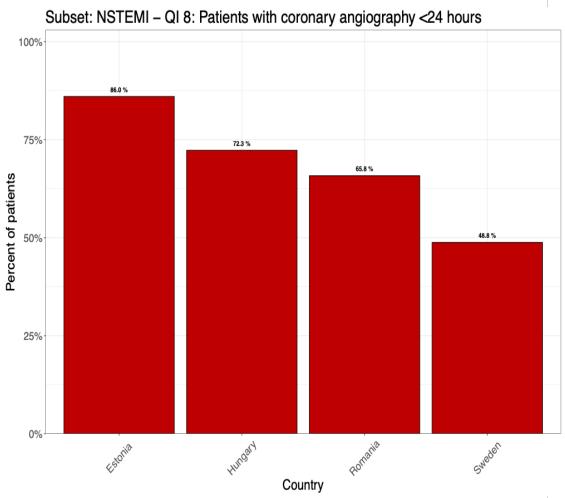




## **Quality indicator on coronary angiography in NSTEMI**

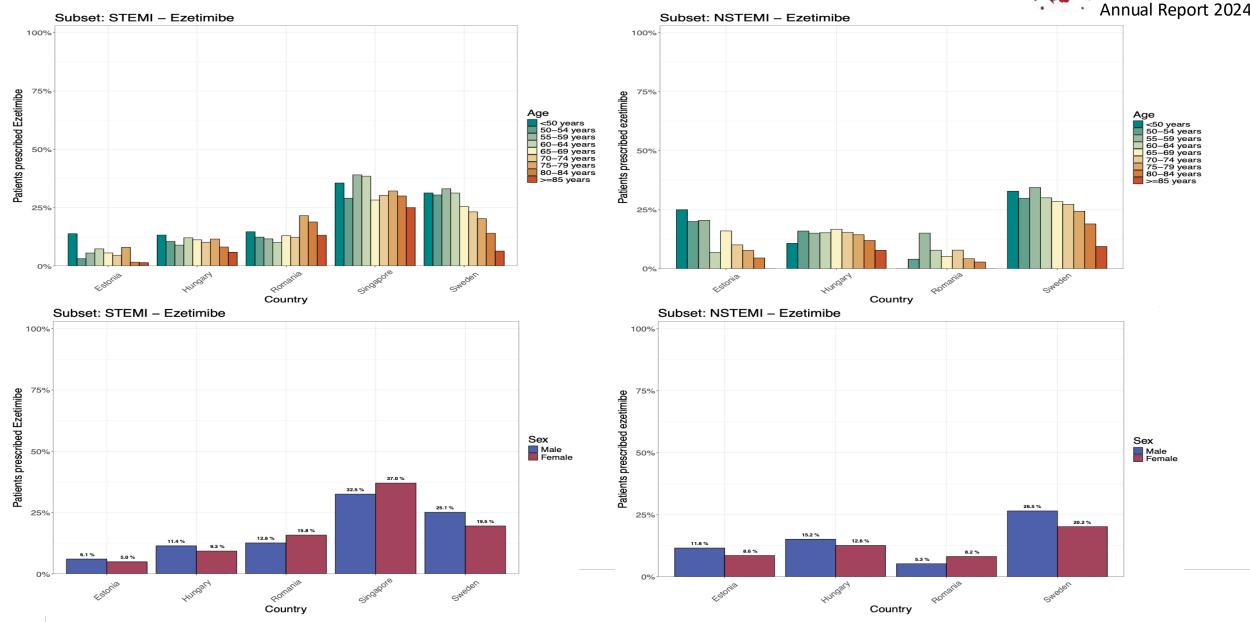






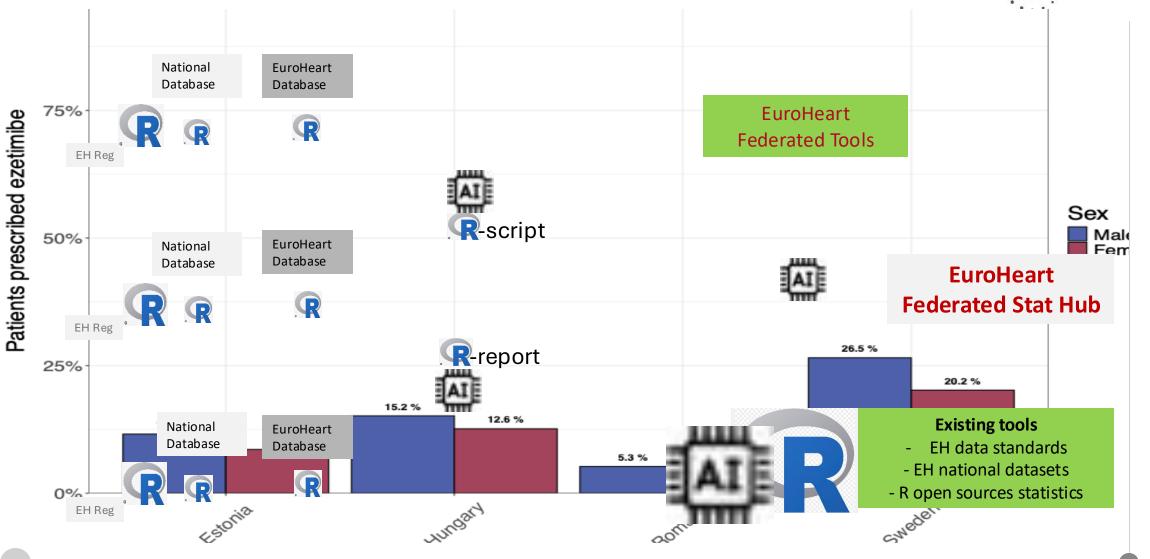
## Ezetimibe at discharge in relation to age and sex





#### **EuroHeart Federated and AI supported analyses**





- Federated analyses allow multinational, multidatabase, multivariable studies without sharing patient level data
- All data remains local and patient privacy is protected.

#### **ESC Virtuous Circle**



