## European Society of Cardiology: the 2023 Atlas of Cardiovascular Disease Statistics



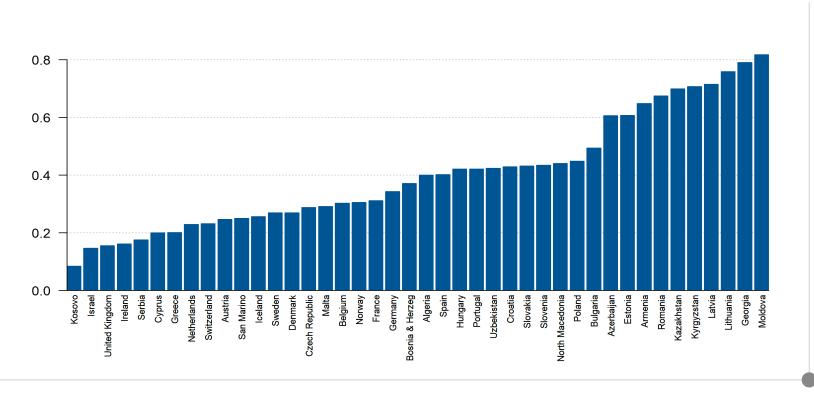


### The ESC Atlas of Cardiology

- The ESC Atlas of Cardiology is a unique data set containing a plethora of descriptive and quantitative data for the 55 ESC's member countries.
- The data are collected from a survey undertaken by the ESC together with the National Cardiac Societies as well as external sources.
- The purpose of the ESC Atlas is to map the status of European healthcare systems, from a cardiovascular medicine perspective, and to provide evidence that may improve decision making in cardiology.



# Cardiovascular Healthcare Delivery



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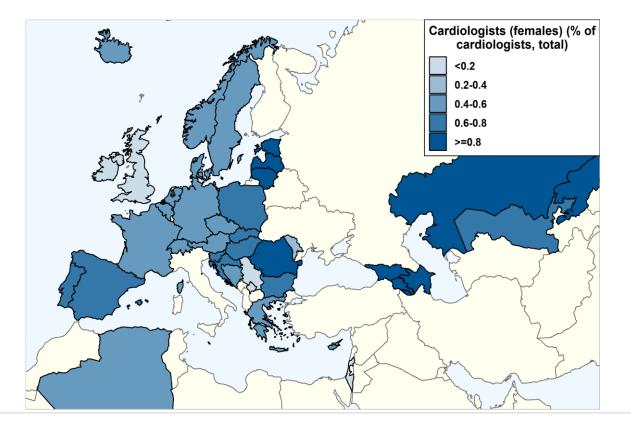
European Society of Cardiology

#### Cardiologists (females) (% of cardiologists, total), 2022

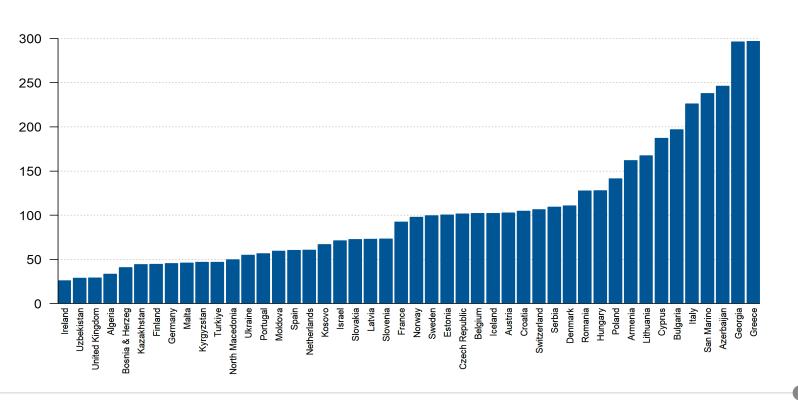
Source: ESC survey. Missing : Albania, Egypt, Finland, Italy, Lebanon, Libya, Luxembourg, Montenegro, Morocco, Syria, Tunisia, Turkiye, Ukraine https://eatlas.escardio.org/

#### Cardiologists (females) (% of cardiologists, total), 2022





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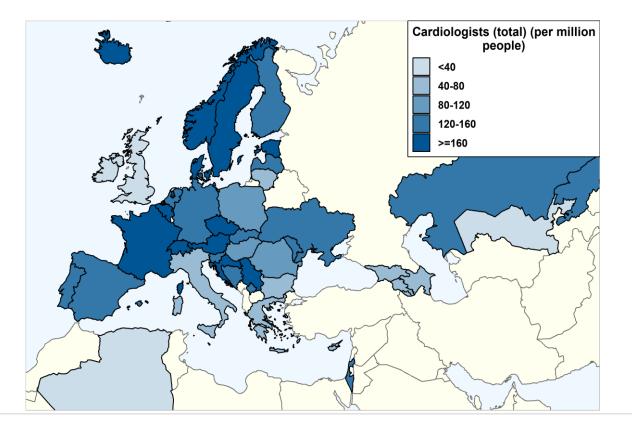
#### Cardiologists (total) (per million people), 2022

Source: ESC survey. Missing : Albania, Egypt, Lebanon, Libya, Luxembourg, Montenegro, Morocco, Syria, Tunisia https://eatlas.escardio.org/



#### Cardiologists (total) (per million people), 2022

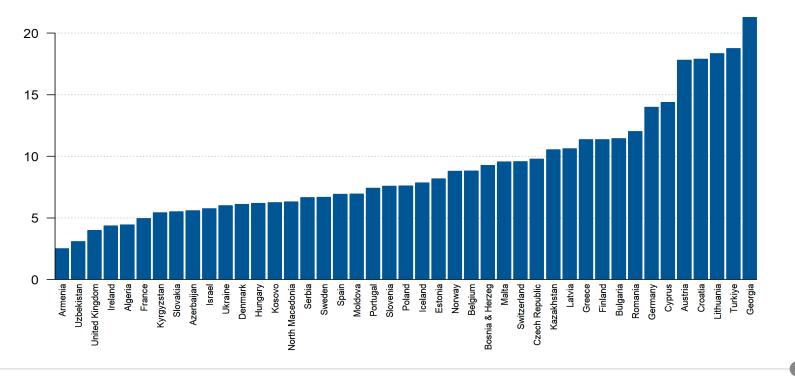




Source: ESC survey. Missing : Albania, Egypt, Lebanon, Libya, Luxembourg, Montenegro, Morocco, Syria, Tunisia https://eatlas.escardio.org/

Cardiac surgeons (per million people), 2022

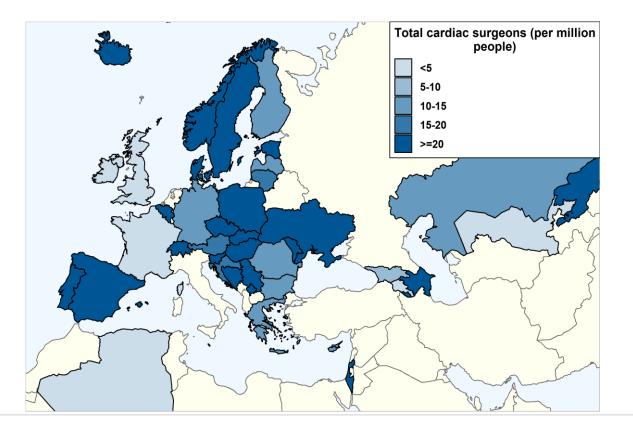




Source: ESC survey. Missing: Albania, Egypt, Italy, Lebanon, Libya, Luxembourg, Montenegro, Morocco, Netherlands, Syria, Tunisia. Zero: San Marino. https://eatlas.escardio.org/

#### Cardiac surgeons (per million people), 2022

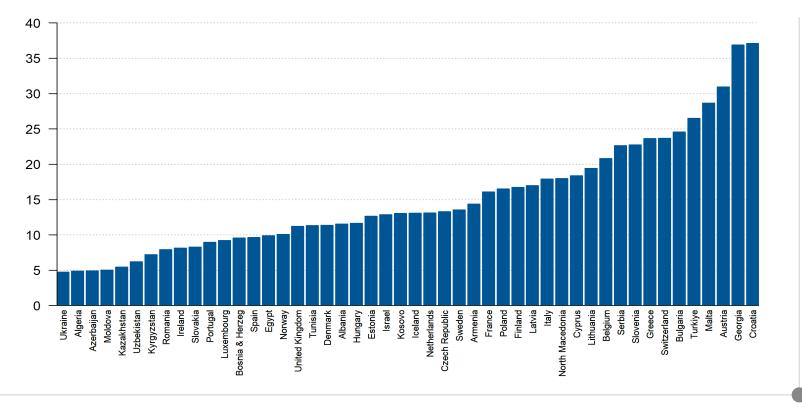




Source: ESC survey. Missing: Albania, Egypt, Italy, Lebanon, Libya, Luxembourg, Montenegro, Morocco, Netherlands, Syria, Tunisia. Zero: San Marino. https://eatlas.escardio.org/

#### Total interventional cardiologists (per million people), 2022

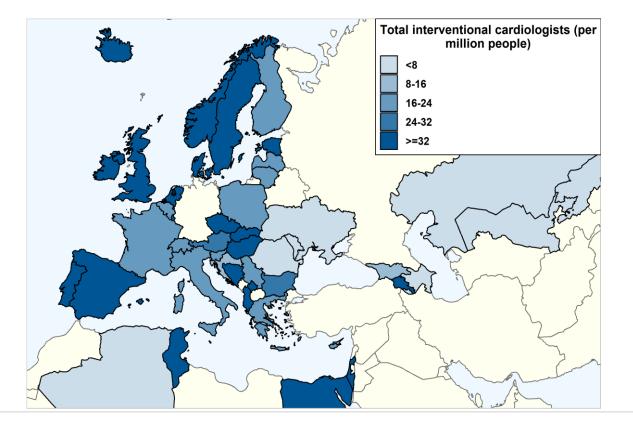




Sources: ESC survey, EAPCI Survey. Missing: Germany, Lebanon, Libya, Montenegro, Morocco, Syria. Zero: San Marino https://eatlas.escardio.org/

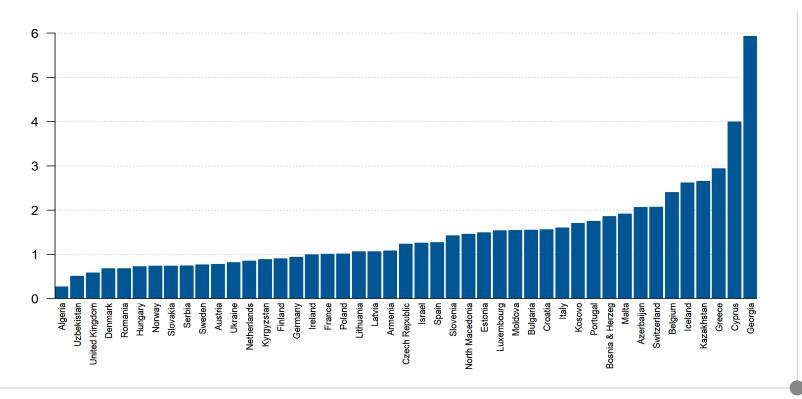
#### Total interventional cardiologists (per million people), 2022





Sources: ESC survey, EAPCI Survey. Missing: Germany, Lebanon, Libya, Montenegro, Morocco, Syria. Zero: San Marino https://eatlas.escardio.org/

#### Hospitals with cardiac surgery (per million people), 2022

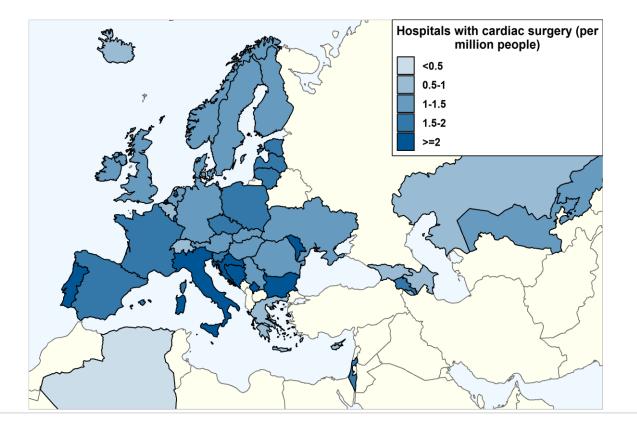


Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia, Turkiye. Zero: San Marino. https://eatlas.escardio.org/



#### Hospitals with cardiac surgery (per million people), 2022

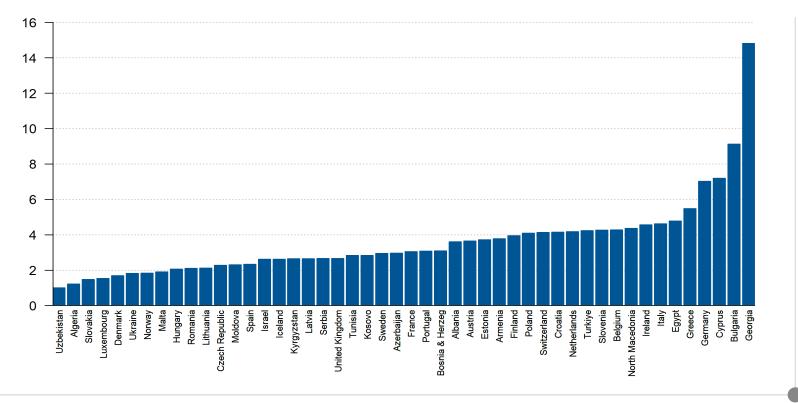




Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia, Turkiye. Zero: San Marino. https://eatlas.escardio.org/

#### Hospital with cath labs (per million people), 2022



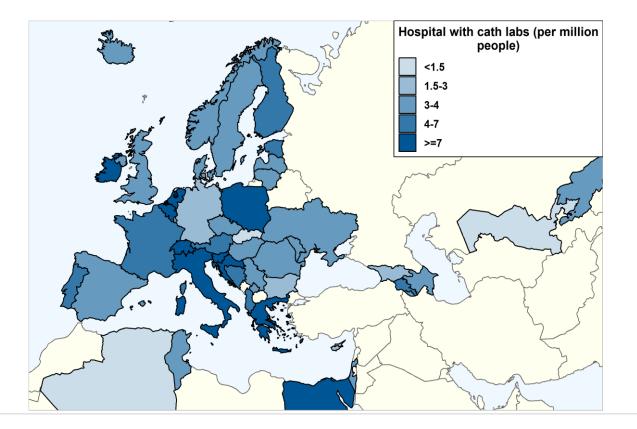


Sources: ESC survey, EAPCI Survey. Missing: Kazakhstan, Lebanon, Libya, Montenegro, Morocco, San Marino, Syria https://eatlas.escardio.org/



#### Hospital with cath labs (per million people), 2022

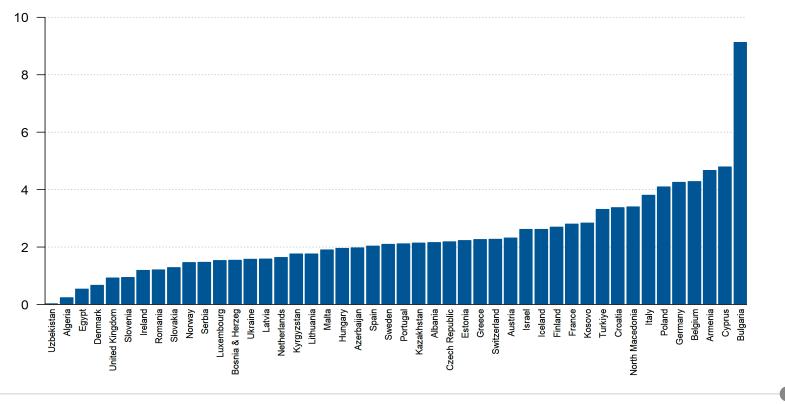




Sources: ESC survey, EAPCI Survey. Missing: Kazakhstan, Lebanon, Libya, Montenegro, Morocco, San Marino, Syria https://eatlas.escardio.org/

#### Hospitals with cath labs on 24 hours/7 days service (per million people), 2022

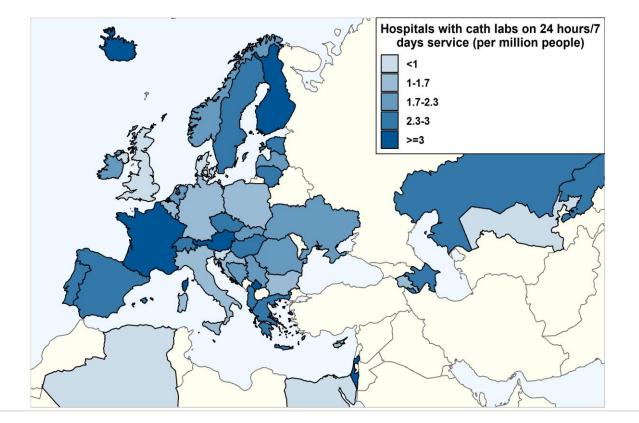




Sources: ESC survey , EAPCI Survey. Missing : Georgia, Lebanon, Libya, Moldova, Montenegro, Morocco, Syria, Tunisia. Zero: San Marino. https://eatlas.escardio.org/

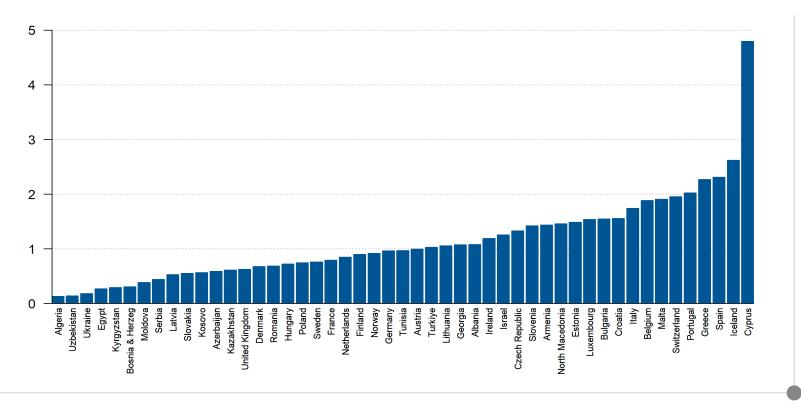
#### Hospitals with cath labs on 24 hours/7 days service (per million people), 2022





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#### Hospitals performing TAVI (per million people), 2022



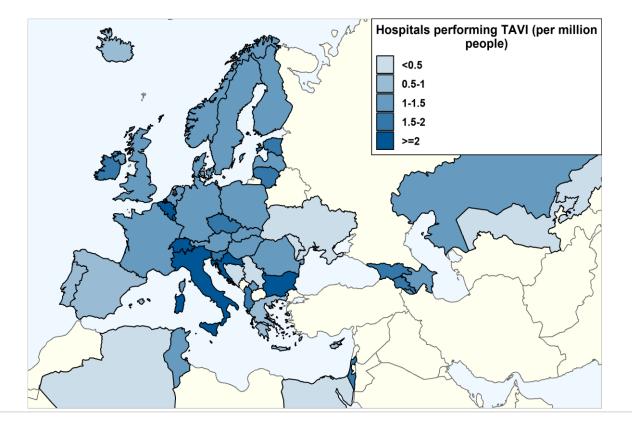
Sources: ESC survey, EAPCI Survey. Missing : Lebanon, Libya, Montenegro, Morocco, Syria. Zero: San Marino. https://eatlas.escardio.org/





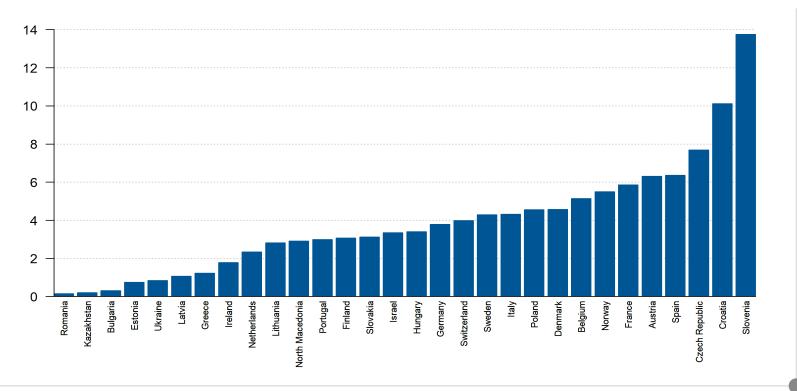
#### Hospitals performing TAVI (per million people), 2022





Sources: ESC survey, EAPCI Survey. Missing : Lebanon, Libya, Montenegro, Morocco, Syria. Zero: San Marino. https://eatlas.escardio.org/

#### Heart transplantations (per million people), 2022



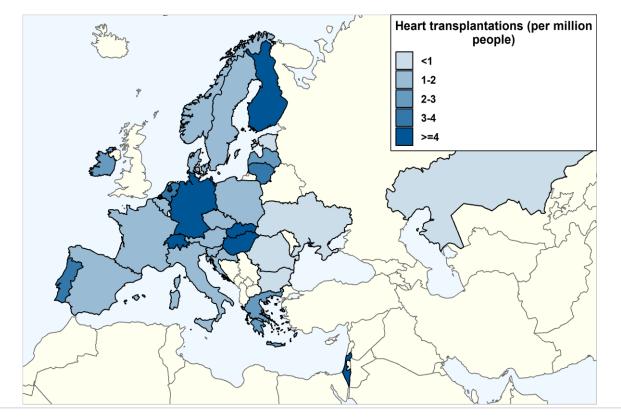
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Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Serbia, Syria, Tunisia, Turkiye, United Kingdom. Zero: Algeria, Armenia, Azerbaijan, Bosnia and Herzegovina, Cyprus, Georgia, Iceland, Kosovo, Kyrgyzstan, Luxembourg, Malta, Moldova, San Marino, Uzbekistan. https://eatlas.escardio.org/

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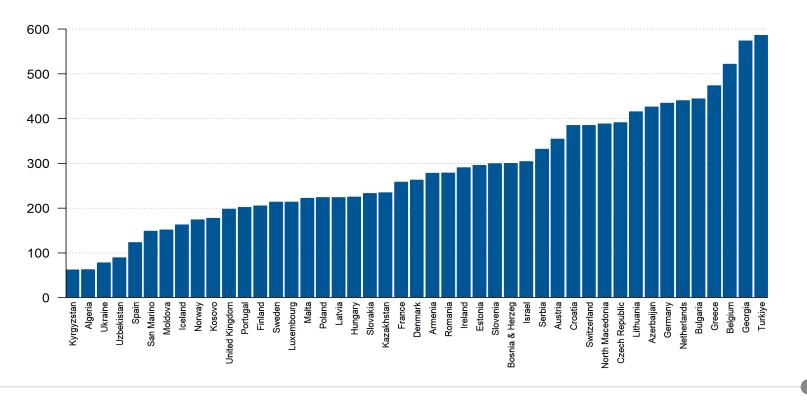




Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Serbia, Syria, Tunisia, Turkiye, United Kingdom. Zero: Algeria, Armenia, Azerbaijan, Bosnia and Herzegovina, Cyprus, Georgia, Iceland, Kosovo, Kyrgyzstan, Luxembourg, Malta, Moldova, San Marino, Uzbekistan. https://eatlas.escardio.org/



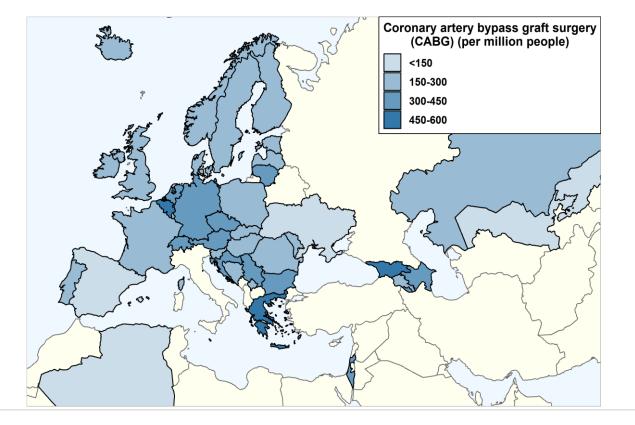
#### Coronary artery bypass graft surgery (CABG) (per million people), 2022



Source: ESC survey. Missing: Albania, Cyprus, Egypt, Italy, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia. https://eatlas.escardio.org/

#### Coronary artery bypass graft surgery (CABG) (per million people), 2022



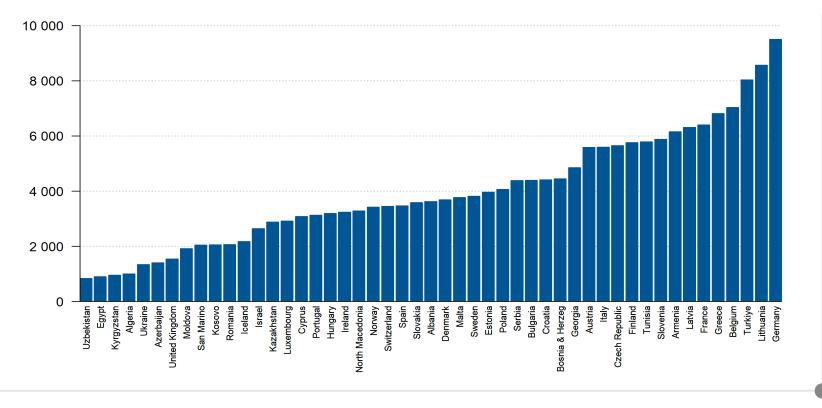


Source: ESC survey. Missing: Albania, Cyprus, Egypt, Italy, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia. https://eatlas.escardio.org/



### Invasive coronary angiography and diagnostic cardiac catheterization (per million people), 2022

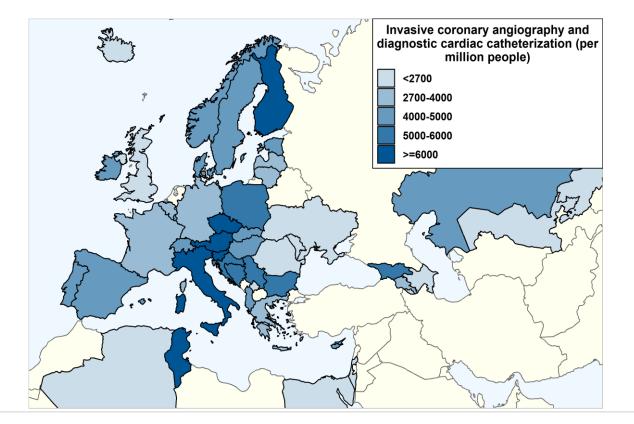




Sources: ESC survey, EAPCI Survey. Missing: Lebanon, Libya, Montenegro, Morocco, Netherlands, Syria https://eatlas.escardio.org/

Invasive coronary angiography and diagnostic cardiac catheterization (per million people), 2022

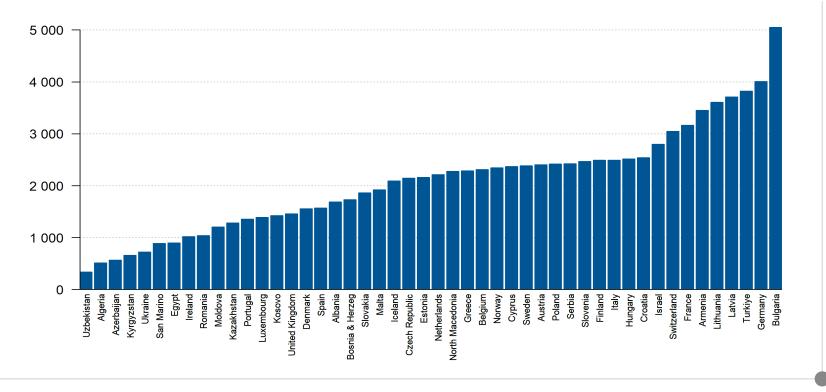




Sources: ESC survey, EAPCI Survey. Missing: Lebanon, Libya, Montenegro, Morocco, Netherlands, Syria https://eatlas.escardio.org/

#### Percutaneous coronary interventions (PCI) (per million people), 2022

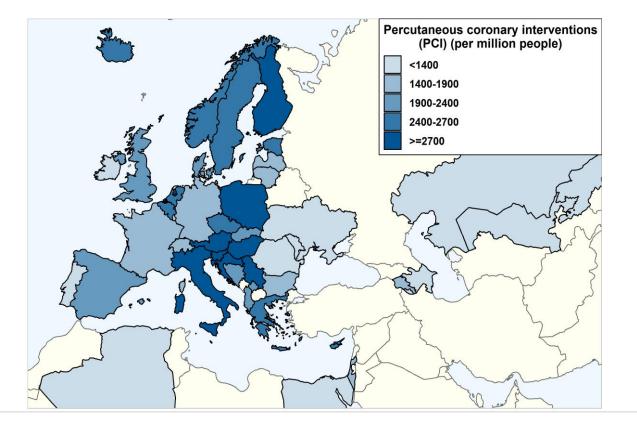




Sources: ESC survey, EAPCI Survey. Missing: Georgia, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia https://eatlas.escardio.org/

#### Percutaneous coronary interventions (PCI) (per million people), 2022

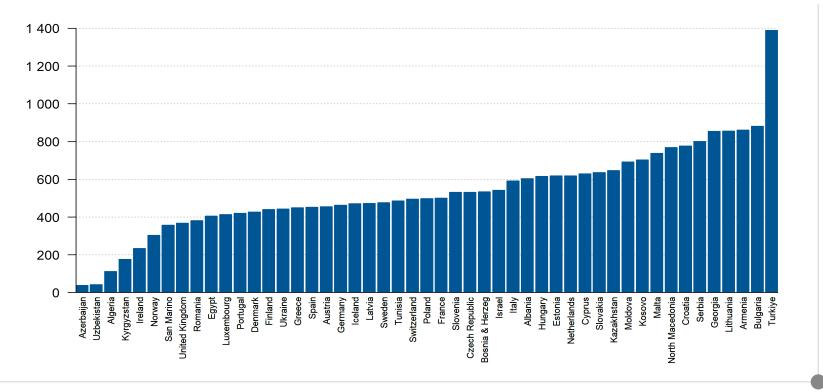




Sources: ESC survey, EAPCI Survey. Missing: Georgia, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia https://eatlas.escardio.org/

#### Primary percutaneous coronary intervention (pPCI) (per million people), 2022

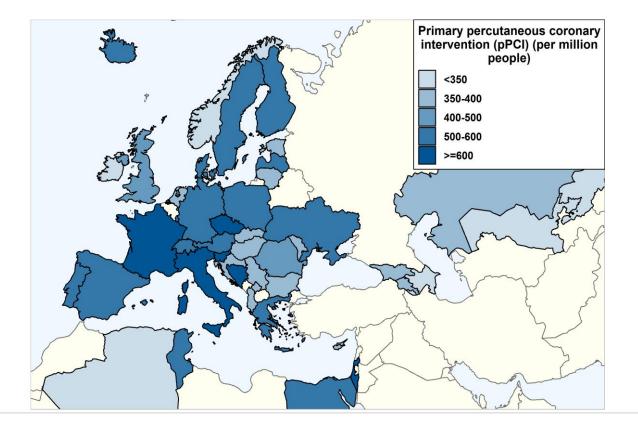




Sources: ESC survey, EAPCI Survey. Missing: Belgium, Lebanon, Libya, Montenegro, Morocco, Syria. https://eatlas.escardio.org/

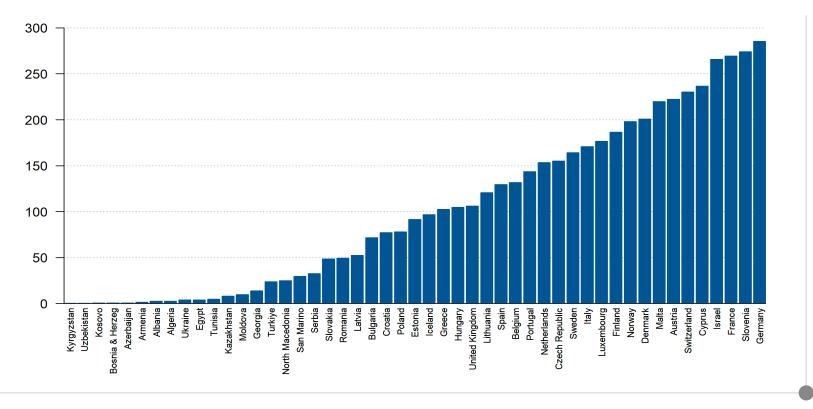
#### Primary percutaneous coronary intervention (pPCI) (per million people), 2022





Sources: ESC survey, EAPCI Survey. Missing: Belgium, Lebanon, Libya, Montenegro, Morocco, Syria. https://eatlas.escardio.org/

#### Transcatheter aortic valve implantation (TAVI) (per million people), 2022

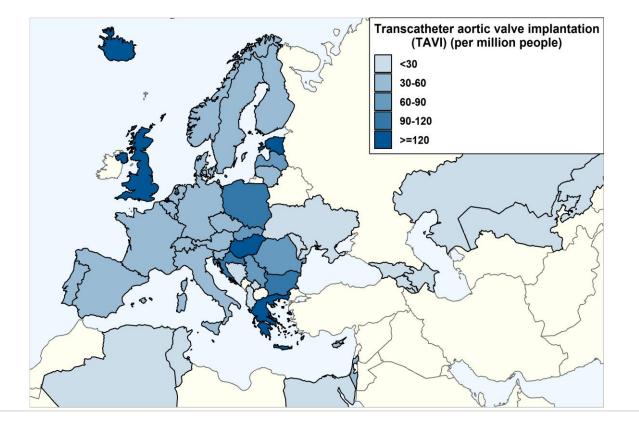


Sources: ESC survey, EAPCI Survey. Missing : Ireland, Lebanon, Libya, Montenegro, Morocco, Syria. https://eatlas.escardio.org/



#### Transcatheter aortic valve implantation (TAVI) (per million people), 2022

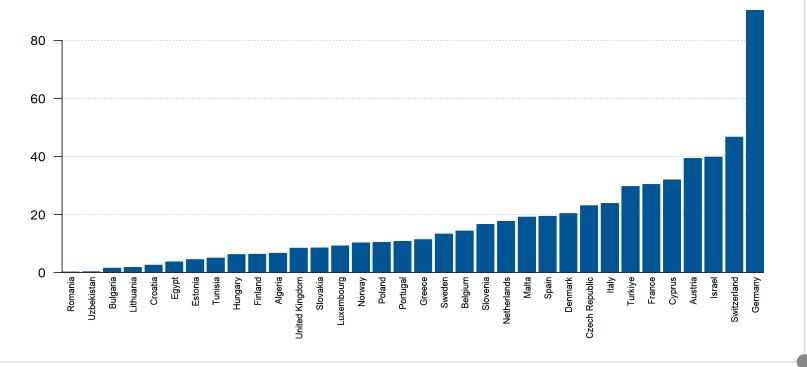




Sources: ESC survey, EAPCI Survey. Missing : Ireland, Lebanon, Libya, Montenegro, Morocco, Syria. https://eatlas.escardio.org/

#### Transcatheter mitral valve interventions (per million people), 2022

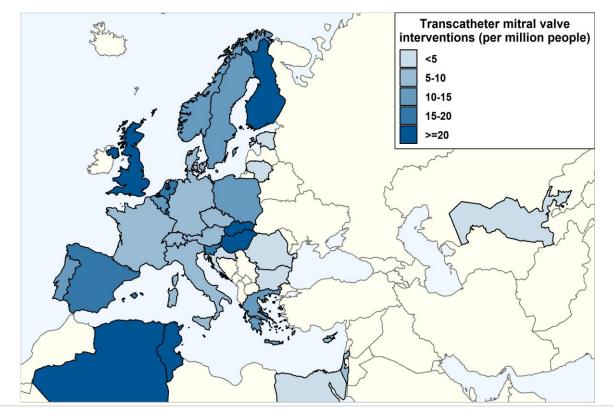




Sources: ESC survey, EAPCI Survey. Missing: Azerbaijan, Ireland, Kazakhstan, Latvia, Lebanon, Libya, Montenegro, Morocco, North Macedonia, Serbia, Syria. Zero: Albania, Armenia, Bosnia and Herzegovina, Georgia, Iceland, Kosovo, Kyrgyzstan, Moldova, San Marino, Ukraine. https://eatlas.escardio.org/

#### Transcatheter mitral valve interventions (per million people), 2022

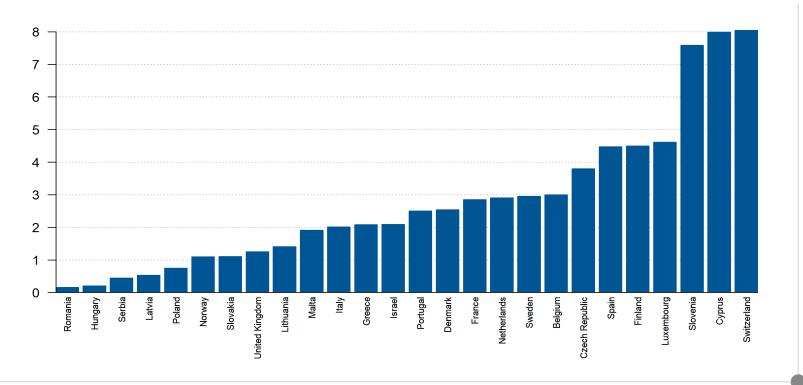




Sources: ESC survey, EAPCI Survey. Missing: Azerbaijan, Ireland, Kazakhstan, Latvia, Lebanon, Libya, Montenegro, Morocco, North Macedonia, Serbia, Syria. Zero: Albania, Armenia, Bosnia and Herzegovina, Georgia, Iceland, Kosovo, Kyrgyzstan, Moldova, San Marino, Ukraine. https://eatlas.escardio.org/

#### Transcatheter tricuspid valve interventions (per million people), 2022

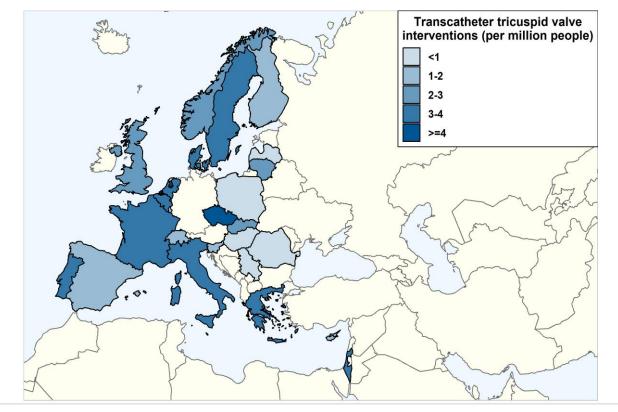




Sources: ESC survey, EAPCI Survey. Missing: Austria, Germany, Ireland, Kazakhstan, Lebanon, Libya, Montenegro, Morocco, Syria. Zero: Albania, Algeria, Armenia, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Croatia, Egypt, Estonia, Georgia, Iceland, Kosovo, Kyrgyzstan, Moldova, North Macedonia, San Marino, Tunisia, Ukraine, Uzbekistan. https://eatlas.escardio.org/

#### Transcatheter tricuspid valve interventions (per million people), 2022

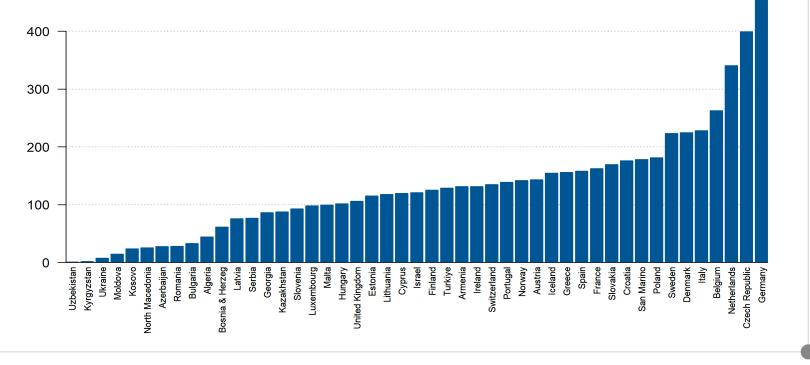




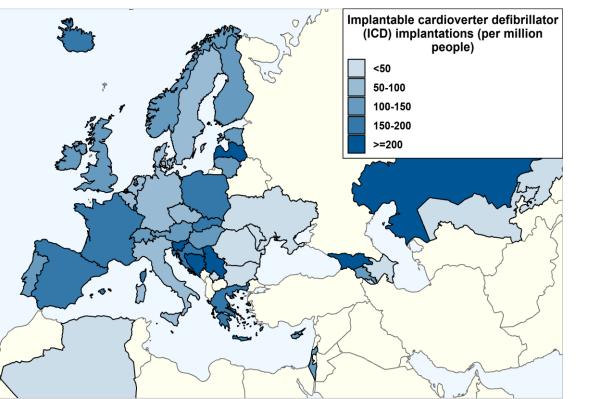
Sources: ESC survey, EAPCI Survey. Missing: Austria, Germany, Ireland, Kazakhstan, Lebanon, Libya, Montenegro, Morocco, Syria. Zero: Albania, Algeria, Armenia, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Croatia, Egypt, Estonia, Georgia, Iceland, Kosovo, Kyrgyzstan, Moldova, North Macedonia, San Marino, Tunisia, Ukraine, Uzbekistan. https://eatlas.escardio.org/

### Implantable cardioverter defibrillator (ICD) implantations (per million people), 2022





Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia. https://eatlas.escardio.org/ Implantable cardioverter defibrillator (ICD) implantations (per million people), 2022

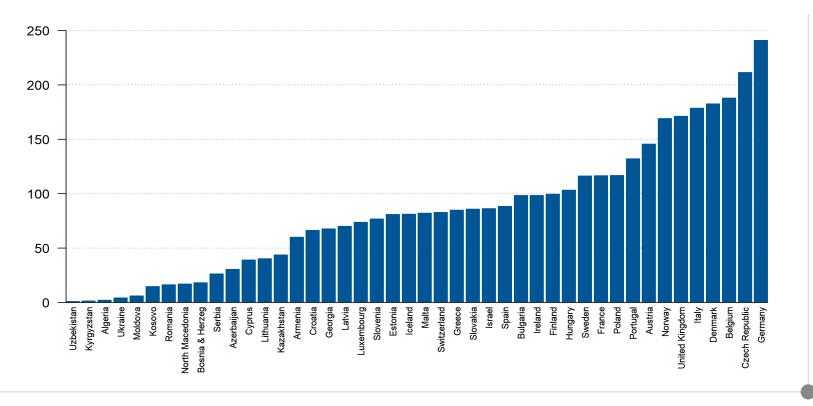


Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Syria, Tunisia. https://eatlas.escardio.org/



### Cardiac resynchronization therapy device (CRT-D and CRT-P) implantations (per million people), 2022

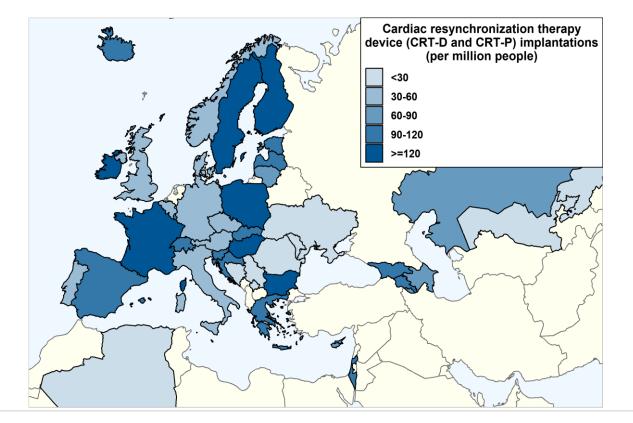




Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Netherlands, Syria, Tunisia, Turkiye. Zero: San Marino. https://eatlas.escardio.org/

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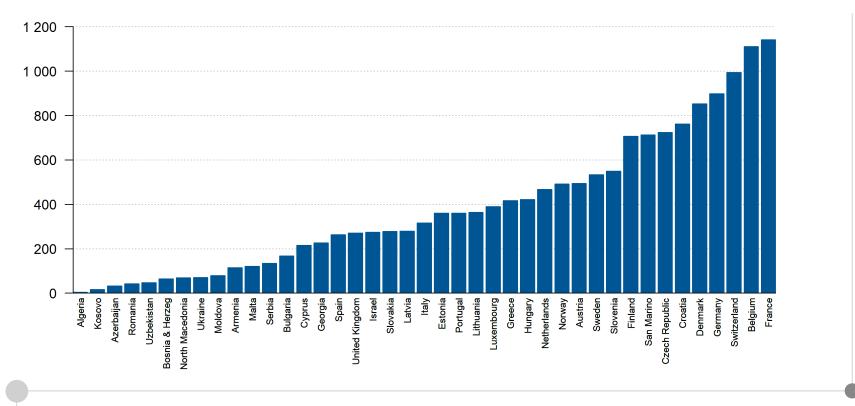




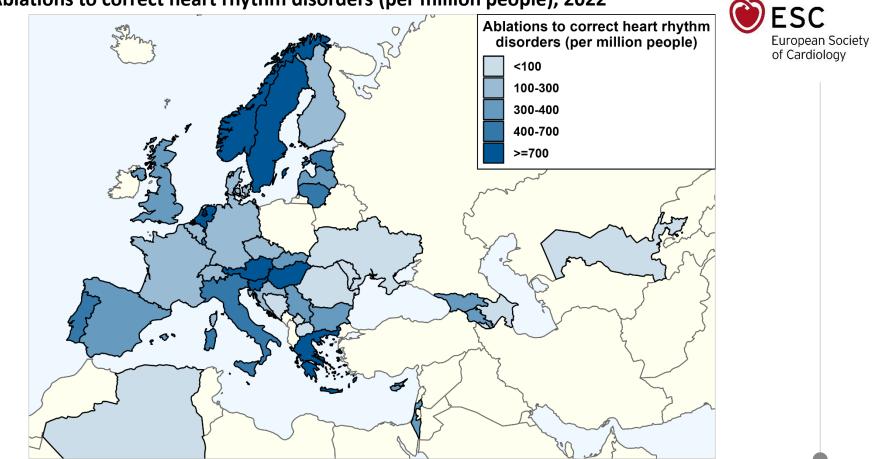
Source: ESC survey. Missing: Albania, Egypt, Lebanon, Libya, Montenegro, Morocco, Netherlands, Syria, Tunisia, Turkiye. Zero: San Marino. https://eatlas.escardio.org/

#### Ablations to correct heart rhythm disorders (per million people), 2022





Source: ESC survey. Missing : Albania, Egypt, Iceland, Ireland, Kazakhstan, Kyrgyzstan, Lebanon, Libya, Montenegro, Morocco, Poland, Syria, Tunisia, Turkiye https://eatlas.escardio.org/



Ablations to correct heart rhythm disorders (per million people), 2022

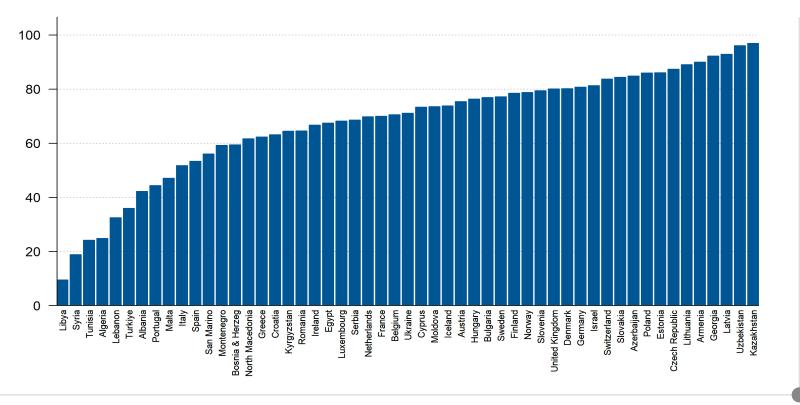
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# Socio-economic and Risk Factors

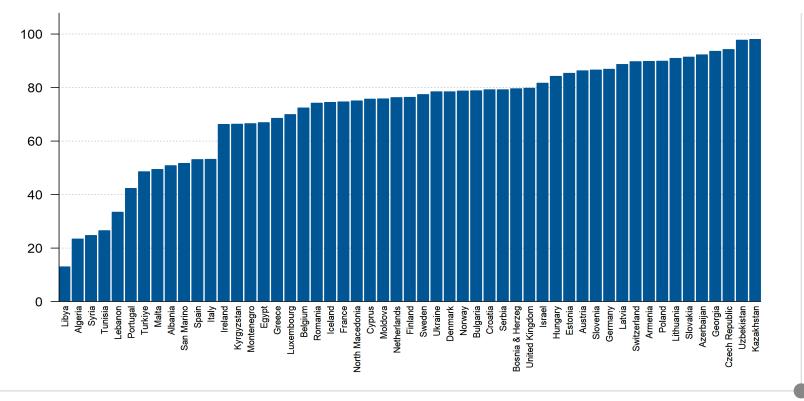
Educational attainment, at least completed upper secondary, population 25+, female (%) (cumulative), 2019





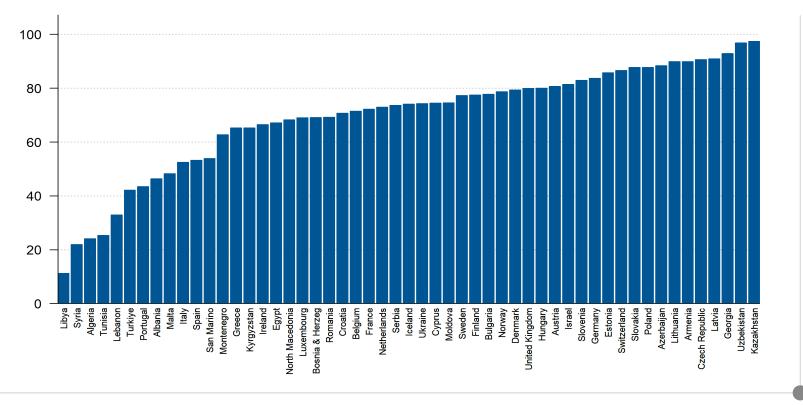
Educational attainment, at least completed upper secondary, population 25+, male (%) (cumulative), 2019





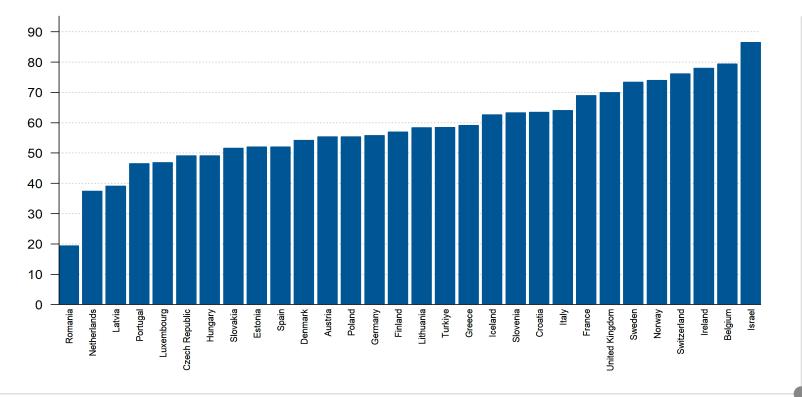
Educational attainment, at least completed upper secondary, population 25+, total (%) (cumulative), 2019





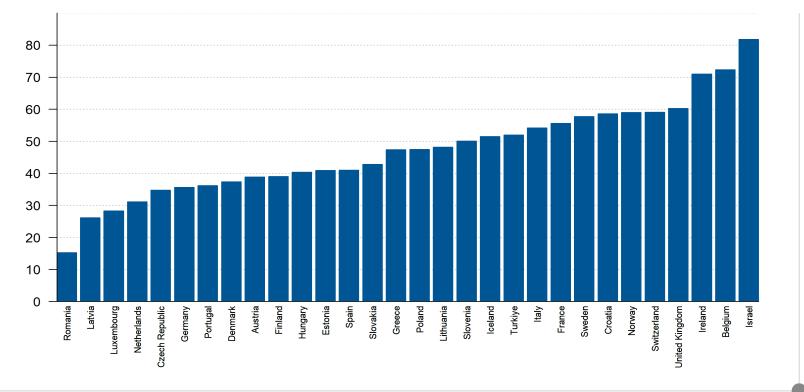
### Vegetables consumption, daily (survey), % of females aged 15 years old and over, 2019





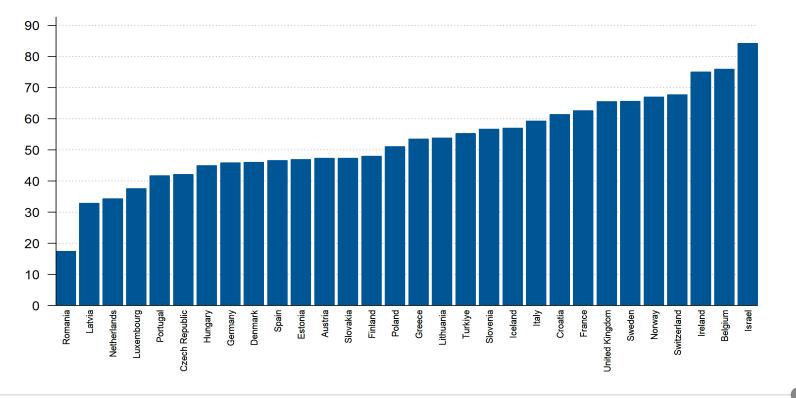
### Vegetables consumption, daily (survey), % of males aged 15 years old and over, 2019





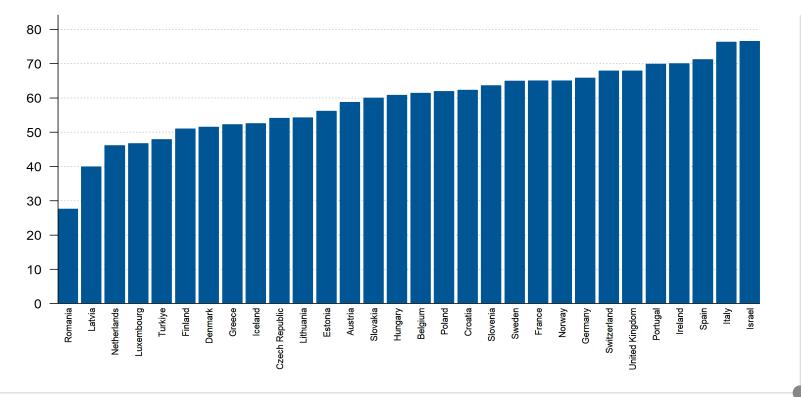
### Vegetables consumption, daily (survey), % of population aged 15 years old and over, 2019





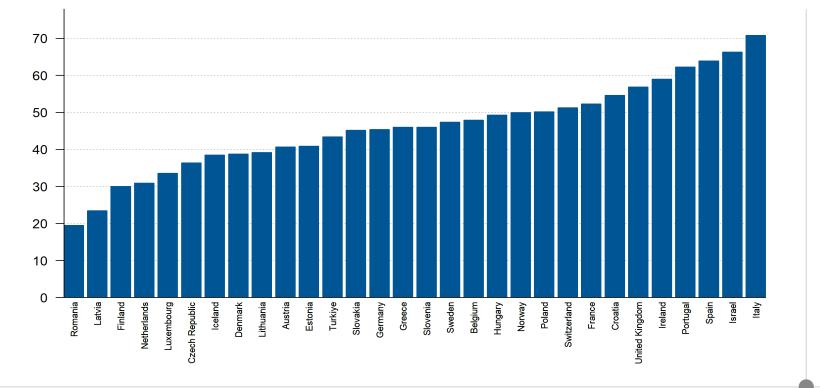
# Fruits consumption, daily (survey), % of females aged 15 years old and over, 2019





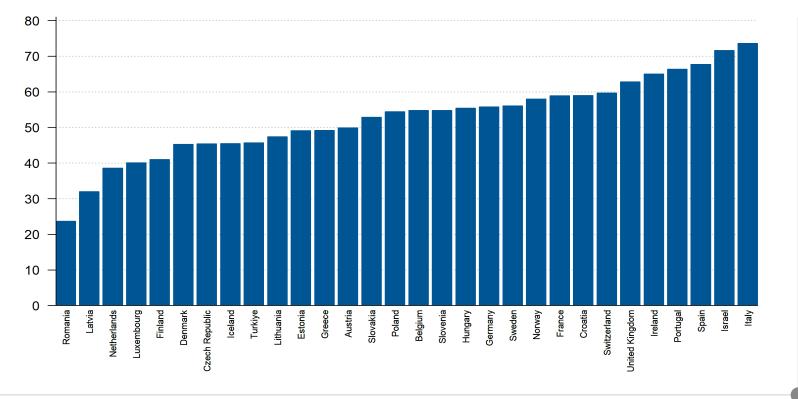
### Fruits consumption, daily (survey), % of males aged 15 years old and over, 2019





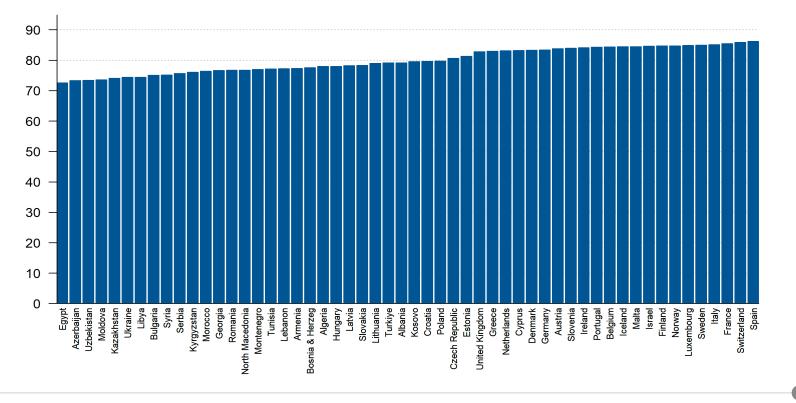
# Fruits consumption, daily (survey), % of population aged 15 years old and over, 2019





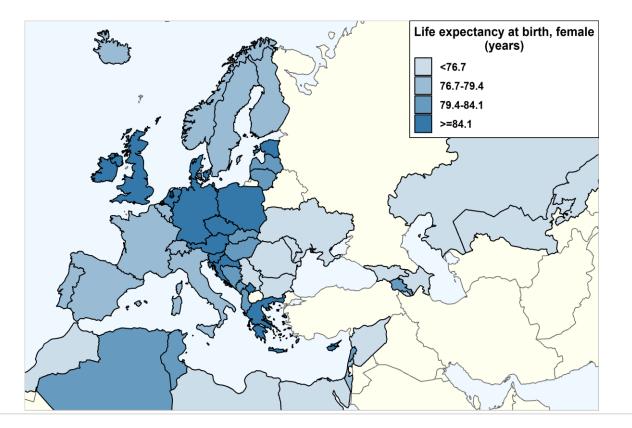
#### Life expectancy at birth, female (years), 2021





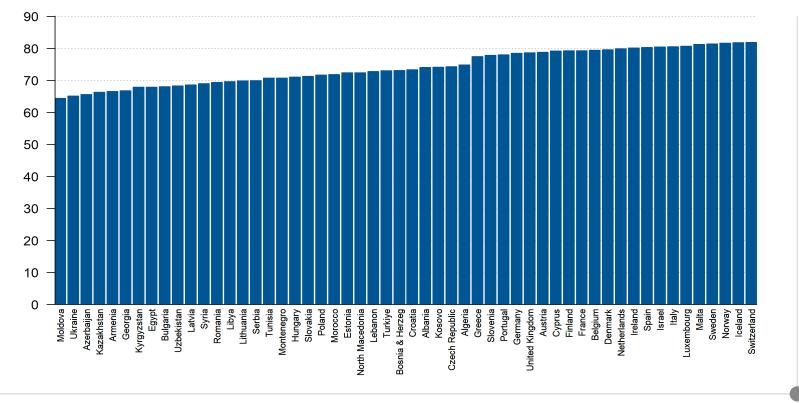
#### Life expectancy at birth, female (years), 2021





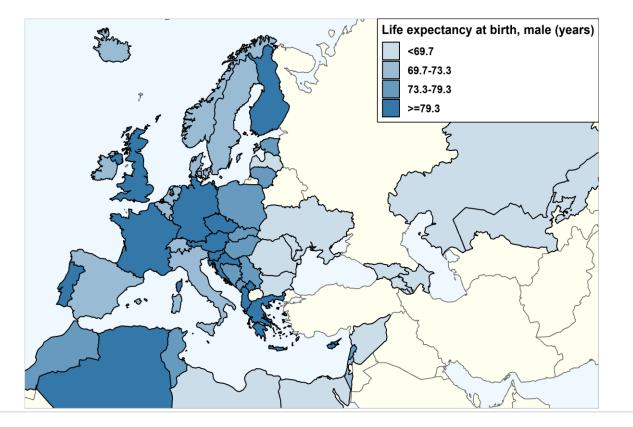
#### Life expectancy at birth, male (years), 2021





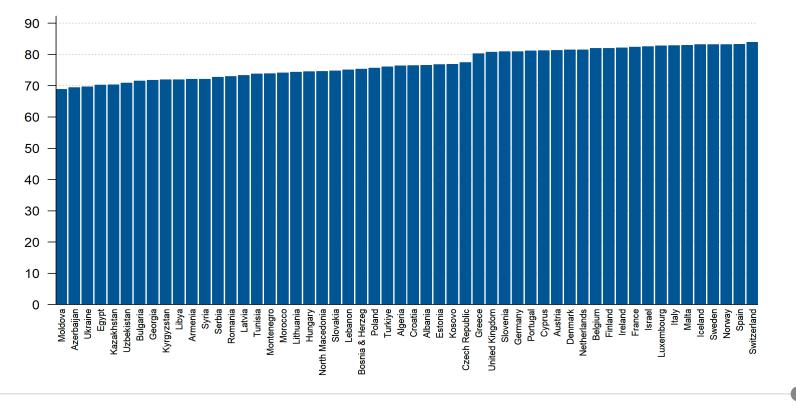
#### Life expectancy at birth, male (years), 2021





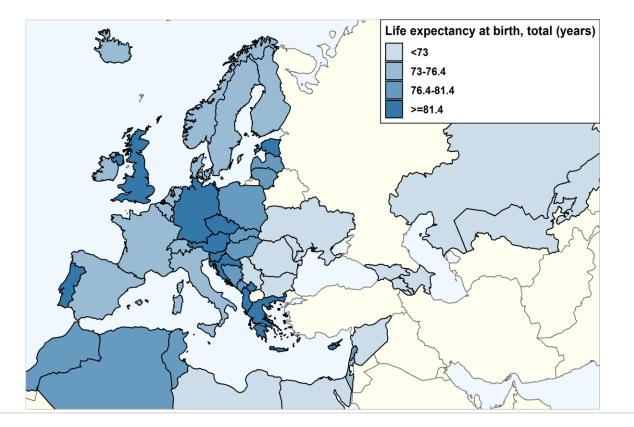
#### Life expectancy at birth, total (years), 2021



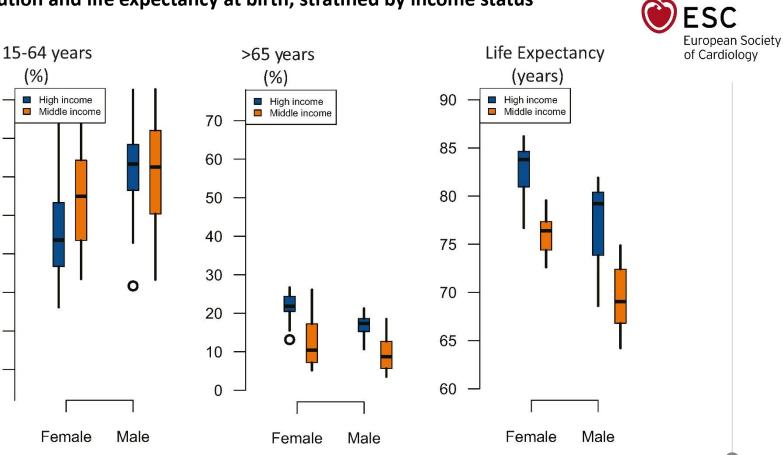


#### Life expectancy at birth, total (years), 2021



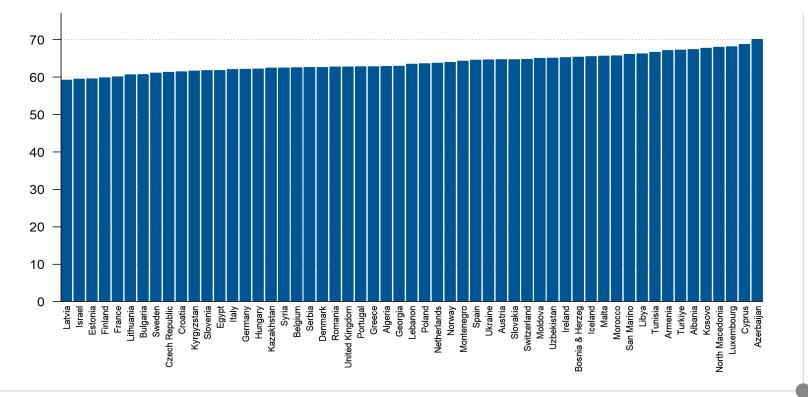


#### Age distribution and life expectancy at birth, stratified by income status



Source: Atlas survey. https://eatlas.escardio.org/

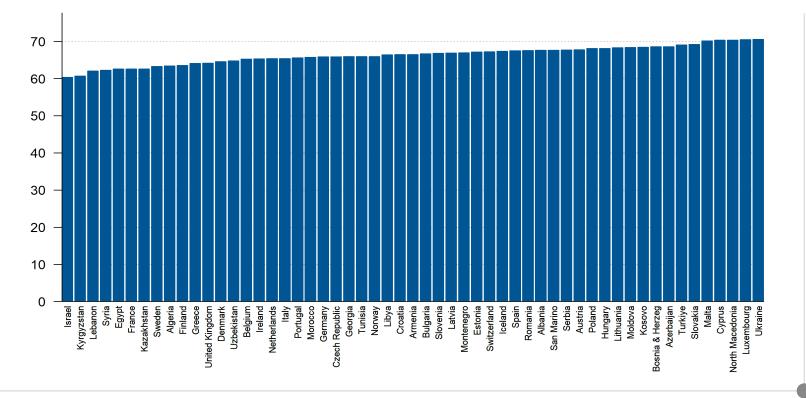
#### Population ages 15-64, female (% of female population), 2021



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#### Population ages 15-64, male (% of male population), 2021

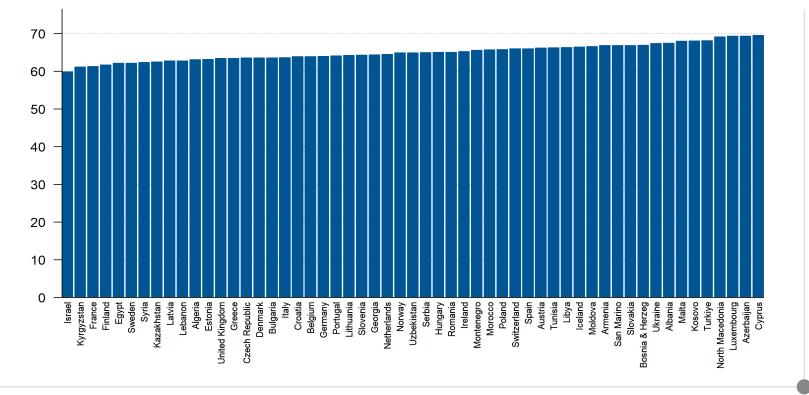


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#### Population ages 15-64 (% of total population), 2021

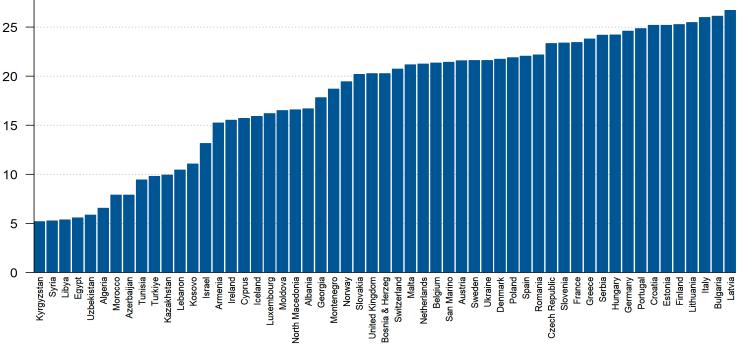




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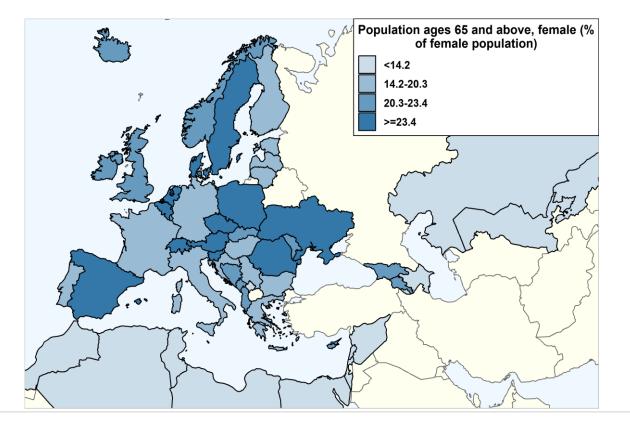
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#### Population ages 65 and above, female (% of female population), 2021

#### Population ages 65 and above, female (% of female population), 2021





20 15 10 5 0 Luxembourg Montenegro lceland Ireland Slovakia Estonia Lithuania Romania Poland Latvia Abania Bosnia & Herzeg Hungary Mata Noway Sarbia Switzerland Austria Belgium Czech Republic United Kingdom Slovenia Spain Bulgaria Croatia Syria Uzbekistan Libya Azerbaijan Kazakhstan Algeria Turkiye Morocco Tunisia Kosovo Lebanon Armenia Moldova Georgia Ukraine North Macedonia San Marino Sweden Netherlands Denmark France Germany Portugal Finland Greece Egypt Israe Cyprus Kyrgyzstan

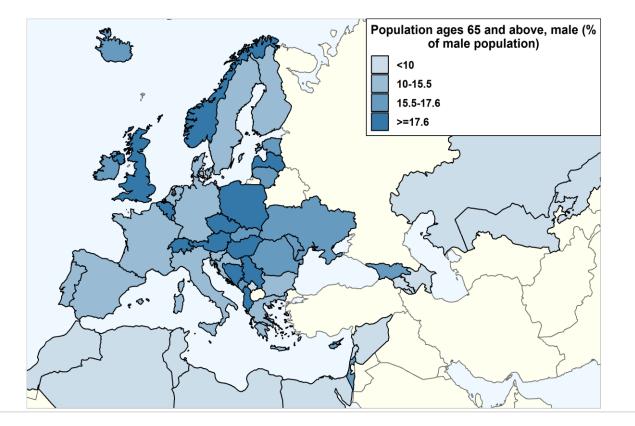
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#### Population ages 65 and above, male (% of male population), 2021

#### Population ages 65 and above, male (% of male population), 2021





### 25 20 15 10 5 0 Azerbaijan Morocco Kazakhstan Turkiye Turkiye Lebanon Kosovo Israel Armenia Moldova Cyprus Georgia Luxembourg North Macedonia Ireland Iceland Albania Montenegro Slovakia Ukraine Norway Bosnia & Herzeg Poland Malta Switzerland Belgium Austria Spain Netherlands San Marino Sweden Denmark Estonia Hungary Czech Republic Slovenia Latvia Creatia Greece Enland France Latvia Greece Finland Egypt Libya Uzbekistan United Kingdom Romania Syria Algeria Kyrgyzstan

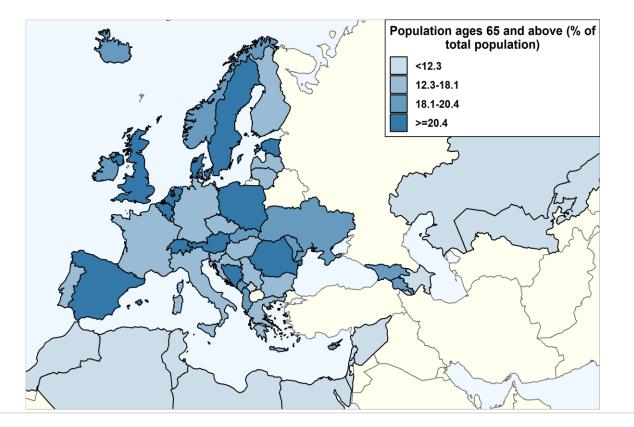
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Population ages 65 and above (% of total population), 2021

#### Population ages 65 and above (% of total population), 2021





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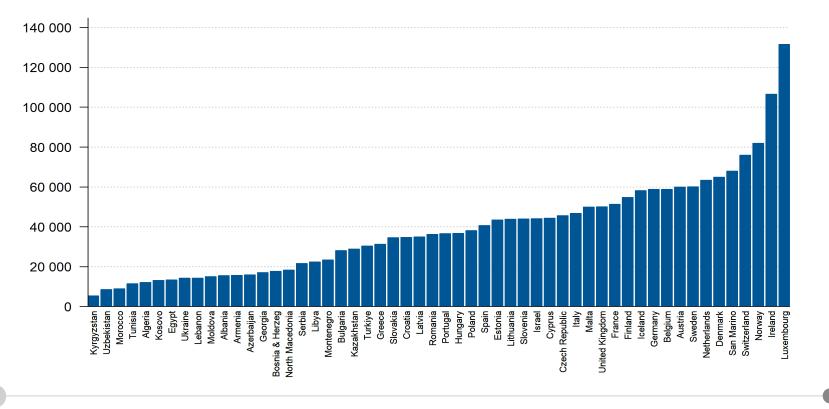
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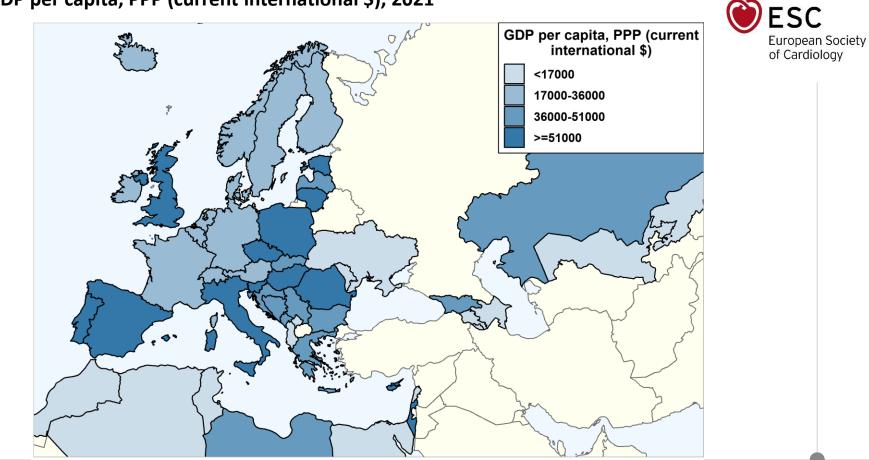
#### Median Population Age, as of 1 July (years), 2021

Source: United Nations. https://eatlas.escardio.org/

#### GDP per capita, PPP (current international \$), 2021





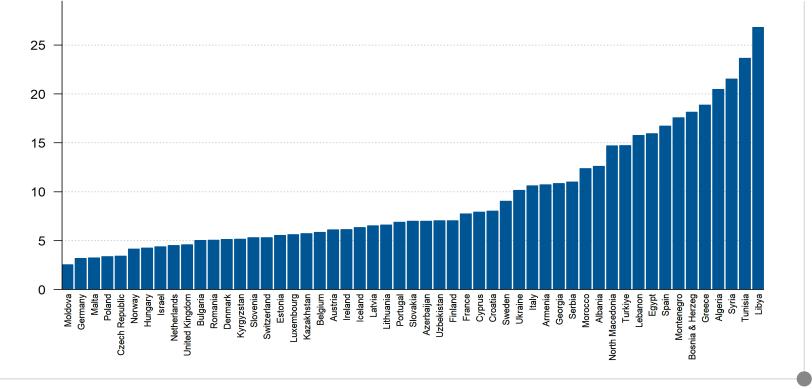


Source: World Bank. https://eatlas.escardio.org/

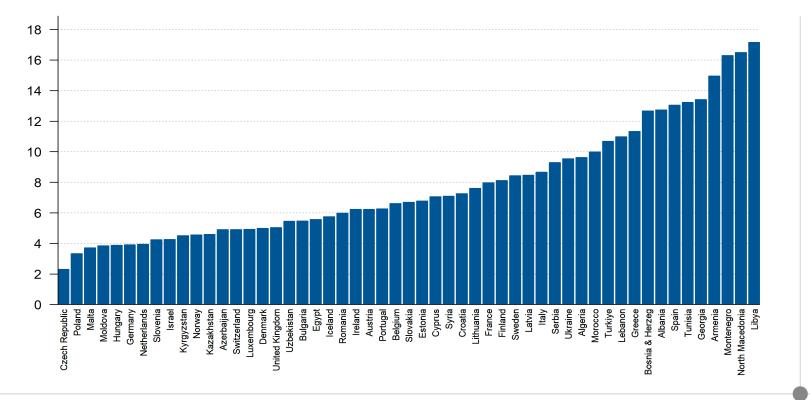
#### GDP per capita, PPP (current international \$), 2021

#### Unemployment, female (% of female labor force) (modeled ILO estimate), 2021





#### Unemployment, male (% of male labor force) (modeled ILO estimate), 2021

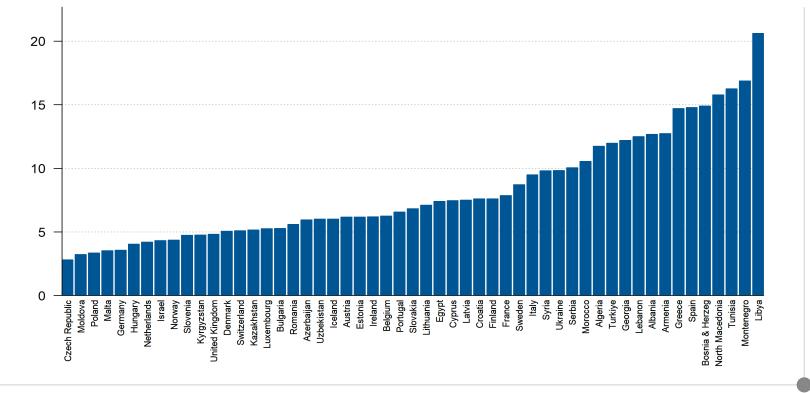


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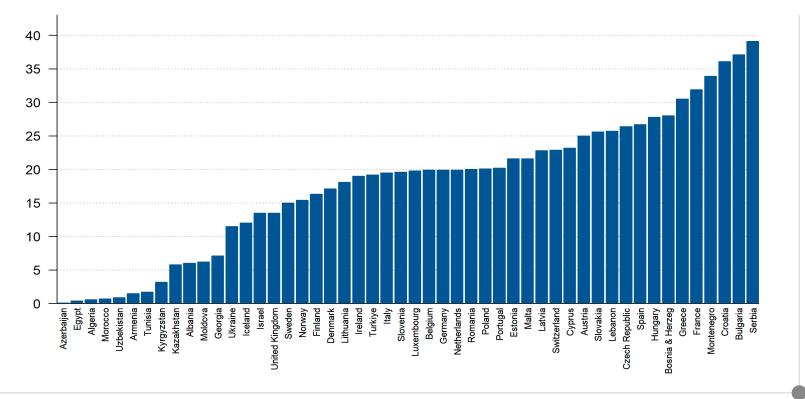
### Unemployment, total (% of total labor force) (modeled ILO estimate), 2021





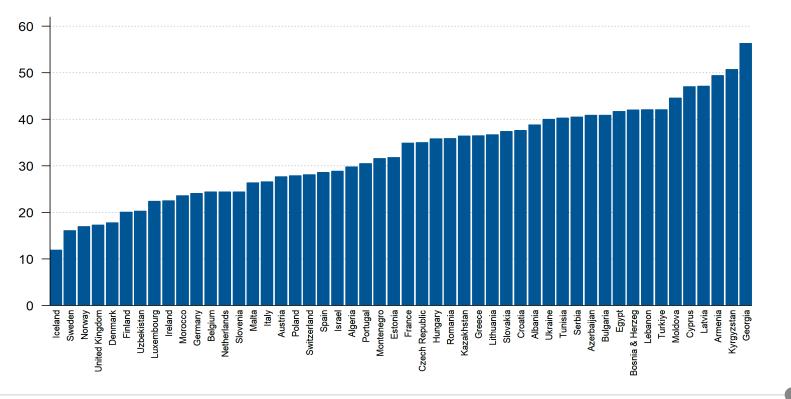
Source: World Bank. https://eatlas.escardio.org/ Estimate of current tobacco smoking prevalence (%) for females (agestandardized rate), 2020





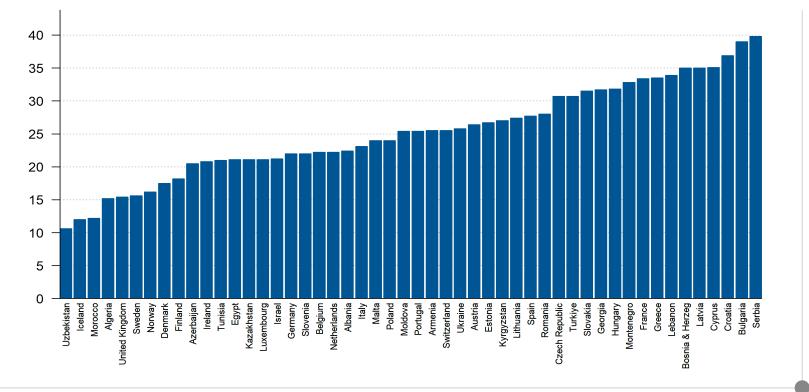
Estimate of current tobacco smoking prevalence (%) for males (agestandardized rate), 2020



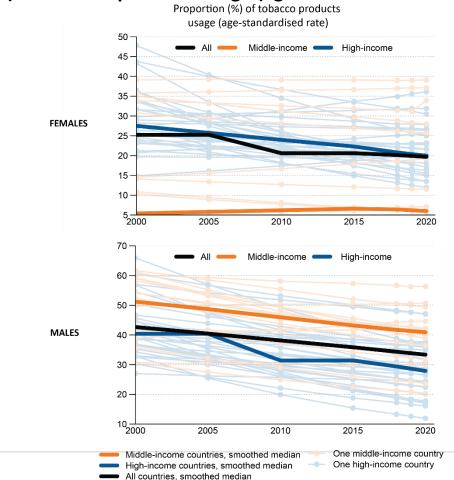


# Estimate of current tobacco smoking prevalence (%) total (age-standardized rate), 2020





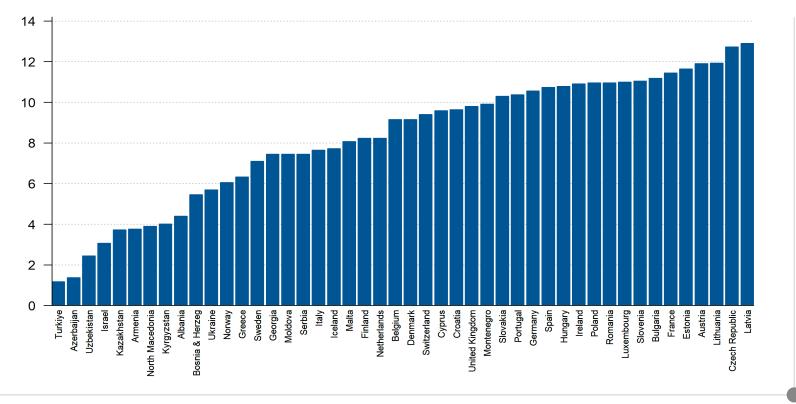
### Proportion (%) of tobacco products usage (age-standardized rate)



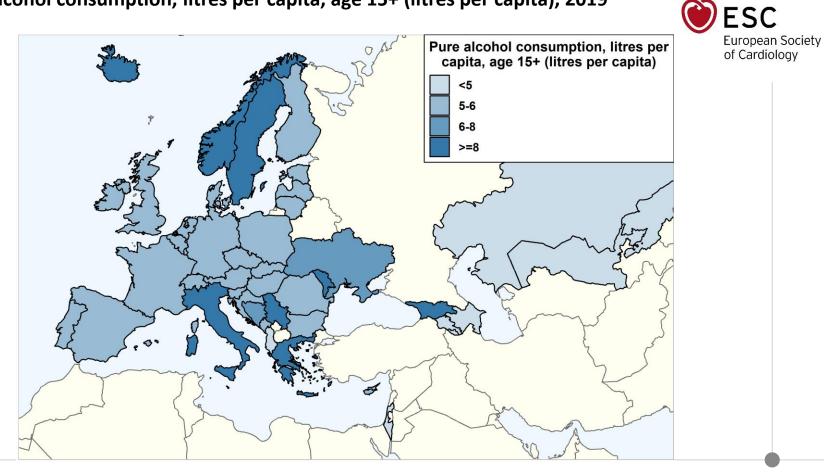


#### Pure alcohol consumption, litres per capita, age 15+ (litres per capita), 2019



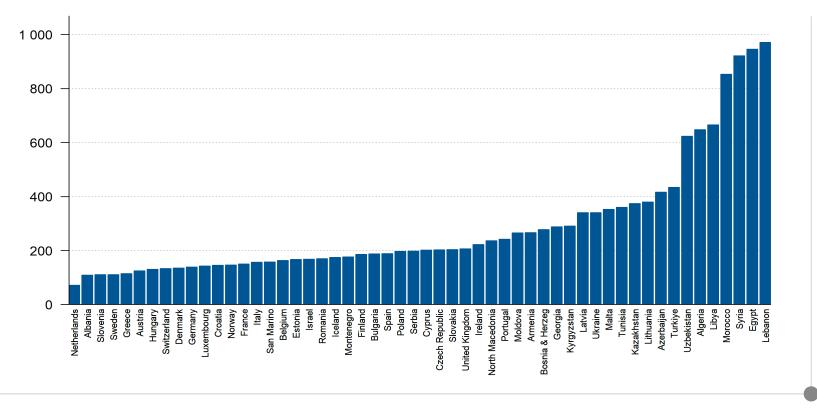


Pure alcohol consumption, litres per capita, age 15+ (litres per capita), 2019



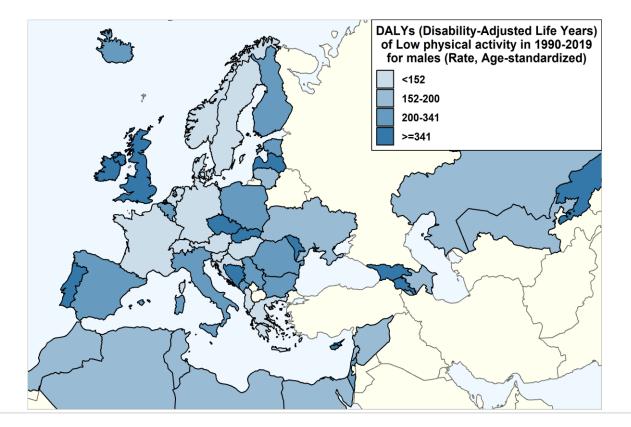
DALYs (Disability-Adjusted Life Years) of Low physical activity in 1990-2019 for males (Rate, Age-standardized), 2019





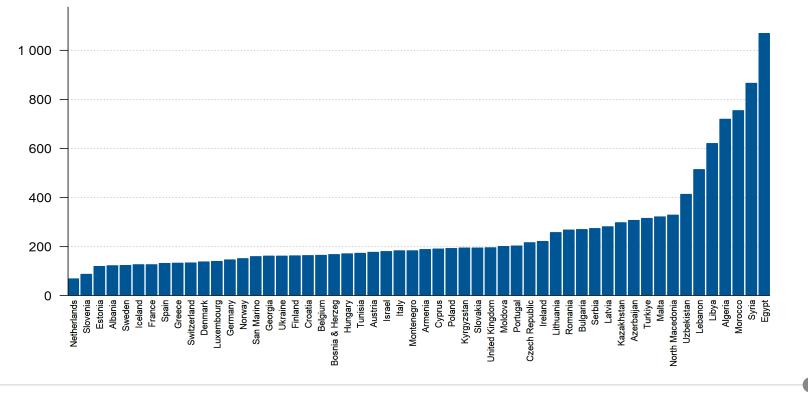
DALYs (Disability-Adjusted Life Years) of Low physical activity in 1990-2019 for males (Rate, Age-standardized), 2019





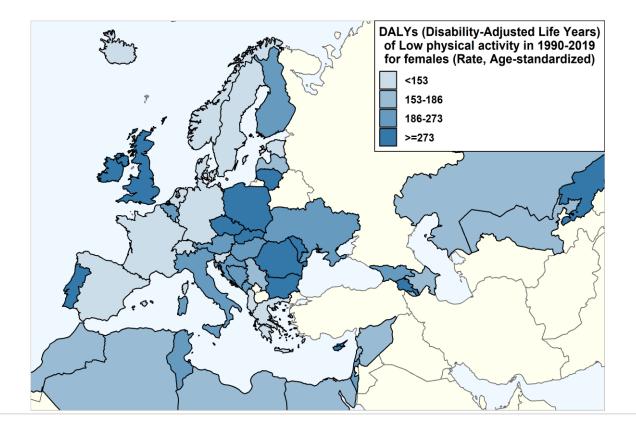
DALYs (Disability-Adjusted Life Years) of Low physical activity in 1990-2019 for females (Rate, Age-standardized), 2019





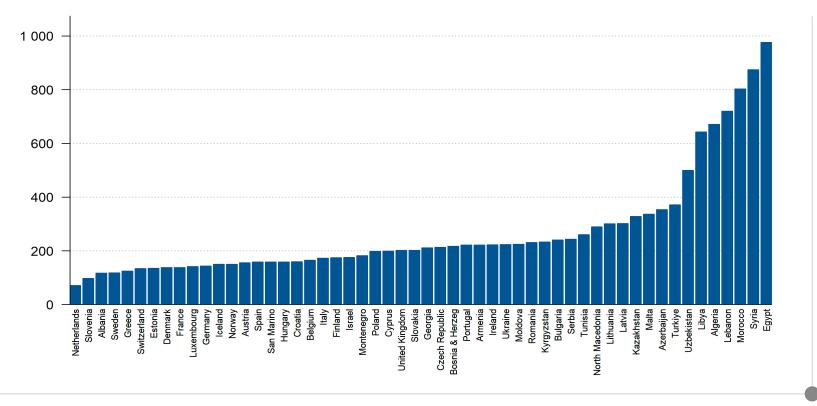
DALYs (Disability-Adjusted Life Years) of Low physical activity in 1990-2019 for females (Rate, Age-standardized), 2019





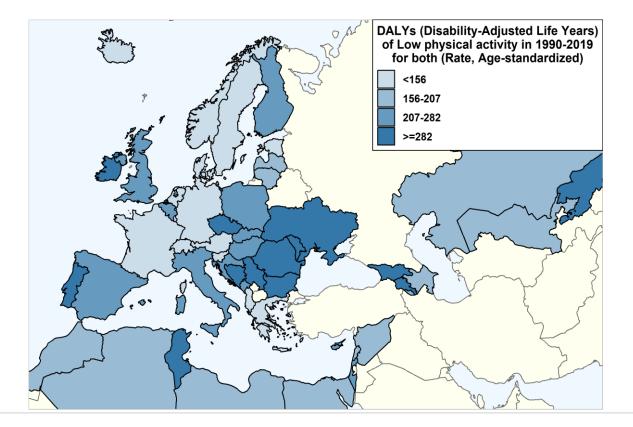
DALYs (Disability-Adjusted Life Years) of Low physical activity in 1990-2019 for both (Rate, Age-standardized), 2019



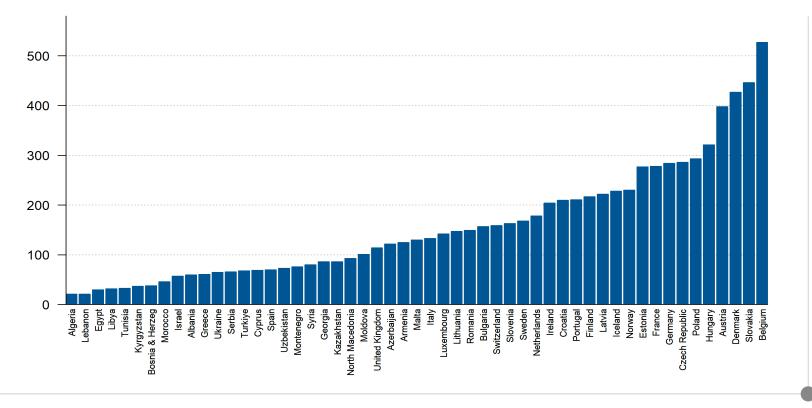


DALYs (Disability-Adjusted Life Years) of Low physical activity in 1990-2019 for both (Rate, Age-standardized), 2019





## Food Balances: Animal fats supply (kcal/capita/day), 2020

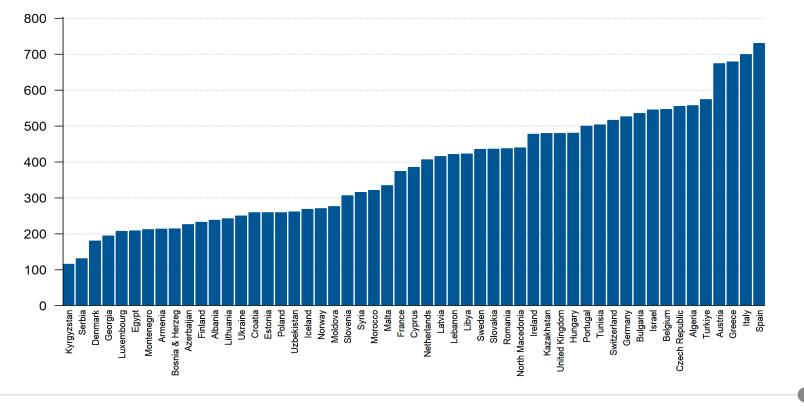


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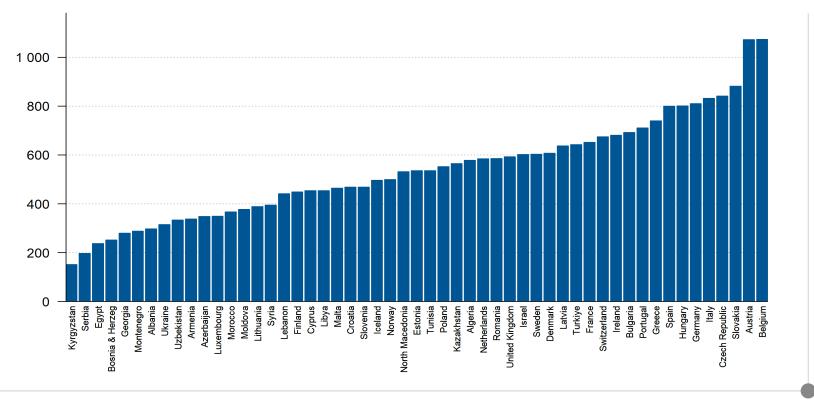
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### Food Balances: Vegetables Oils supply (kcal/capita/day), 2020





# Food Balances: Oils and fats supply (kcal/capita/day), 2020

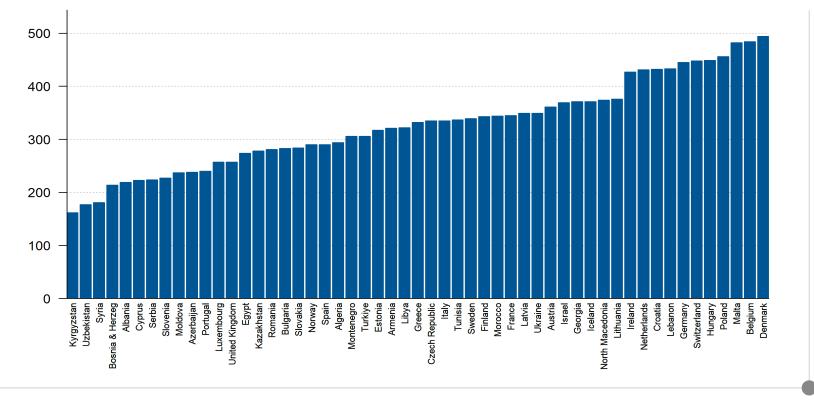


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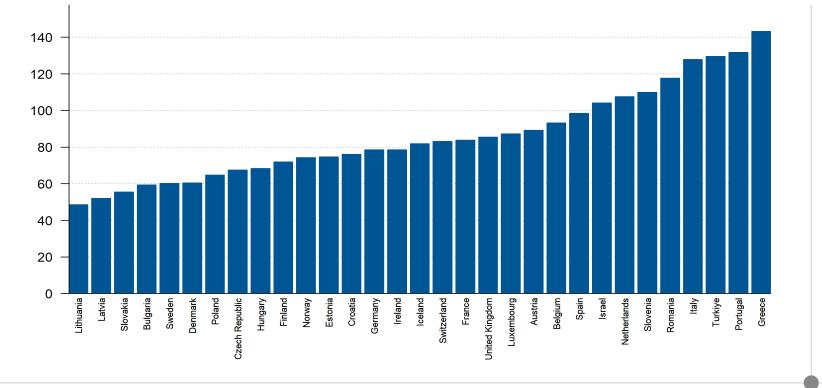
#### Food Balances: Sugar and sweeteners supply (kcal/capita/day), 2020





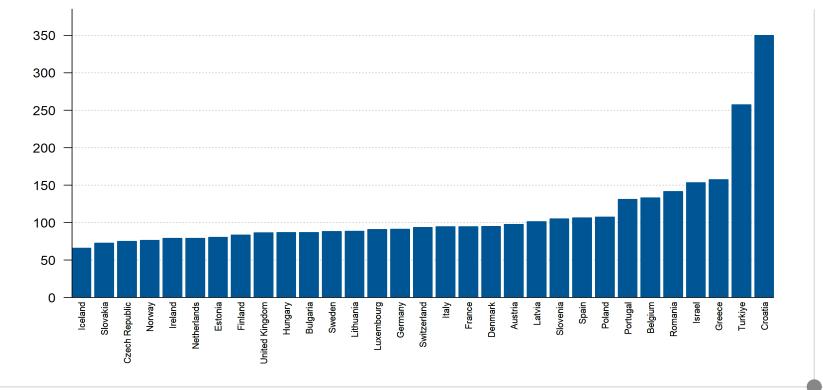
#### Fruits supply, Kilos per capita per year, 2020

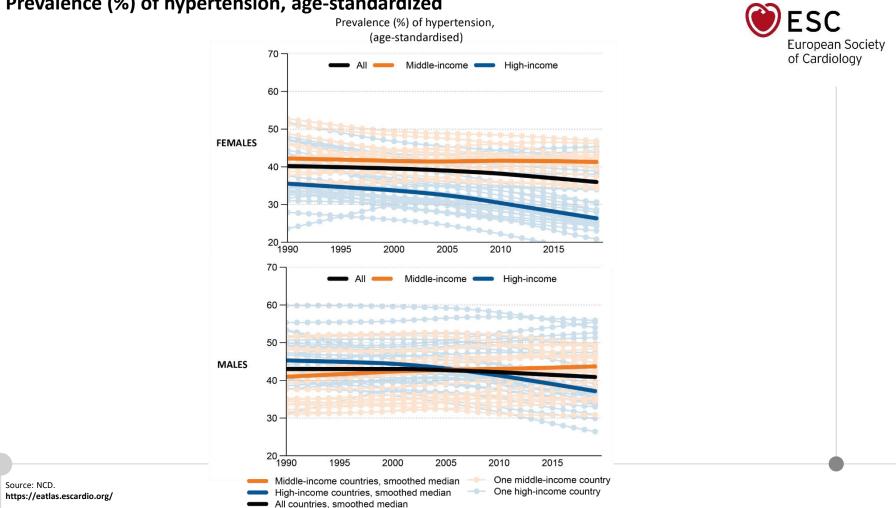




#### Vegetables supply, Kilos per capita per year, 2020



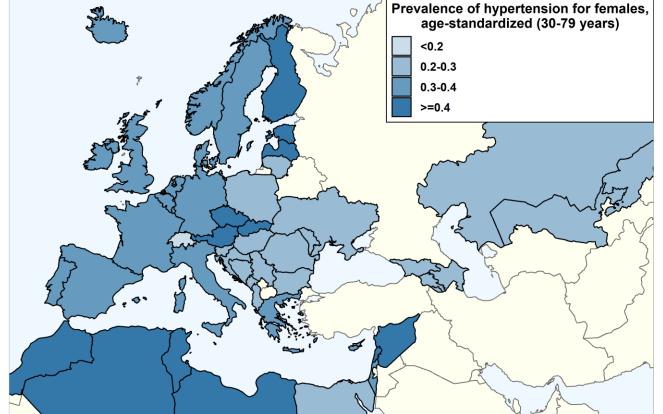




# Prevalence (%) of hypertension, age-standardized

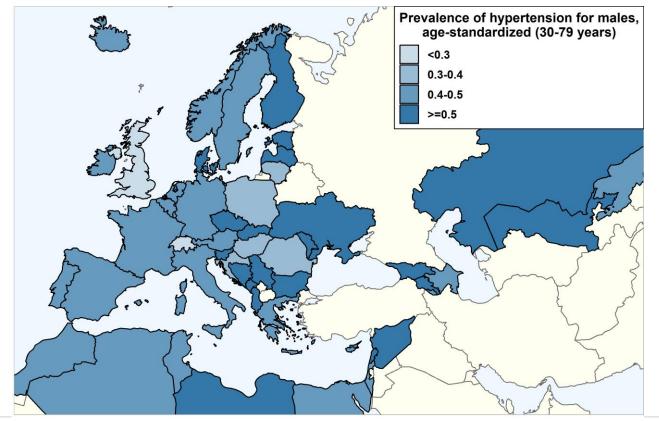
Prevalence of hypertension for females, age-standardized (30-79 years), 2019





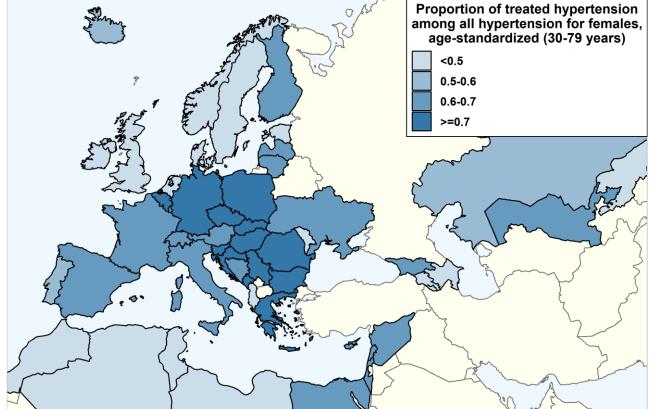
### Prevalence of hypertension for males, age-standardized (30-79 years), 2019





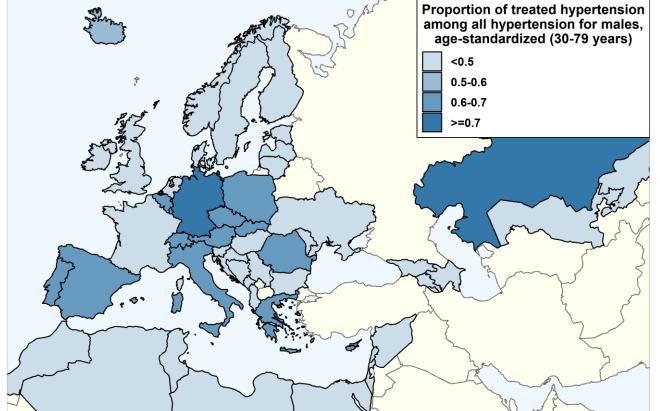
Proportion of treated hypertension among all hypertension for females, agestandardized (30-79 years), 2019





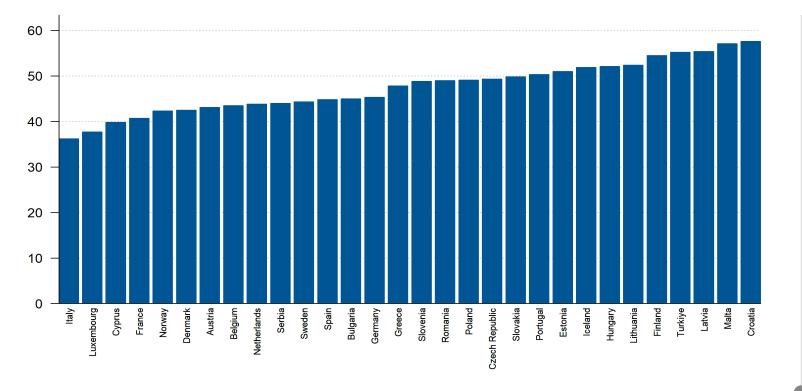
Proportion of treated hypertension among all hypertension for males, agestandardized (30-79 years), 2019



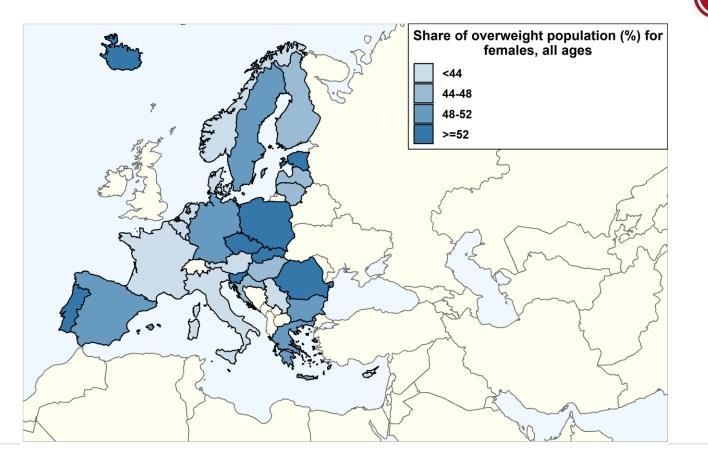


# Share of overweight population (%) for females, all ages, 2019





### Share of overweight population (%) for females, all ages, 2019



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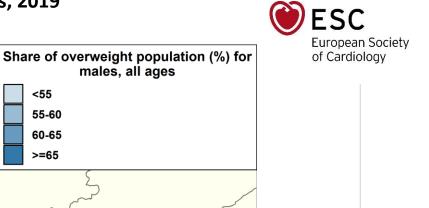
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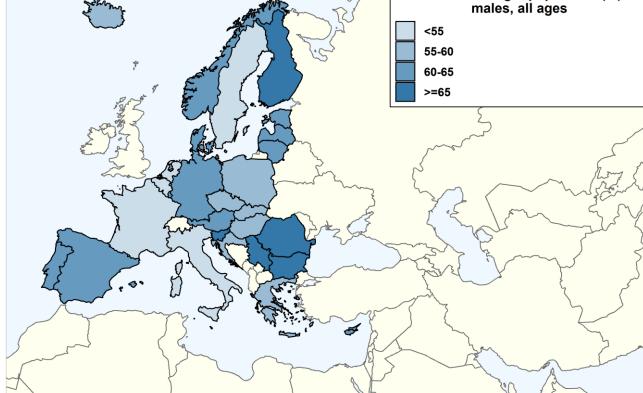
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# Share of overweight population (%) for males, all ages, 2019

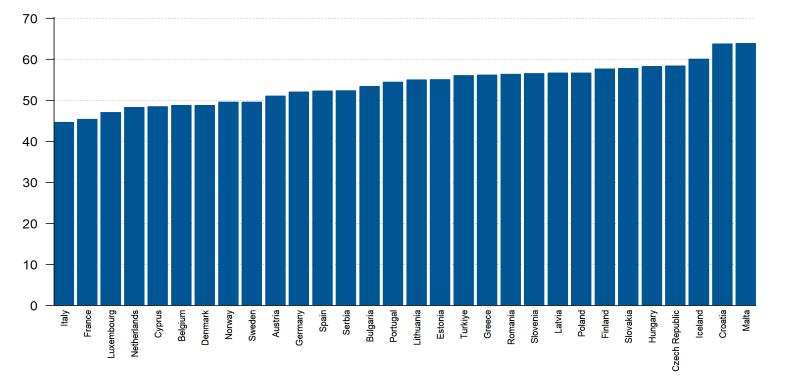
### Share of overweight population (%) for males, all ages, 2019





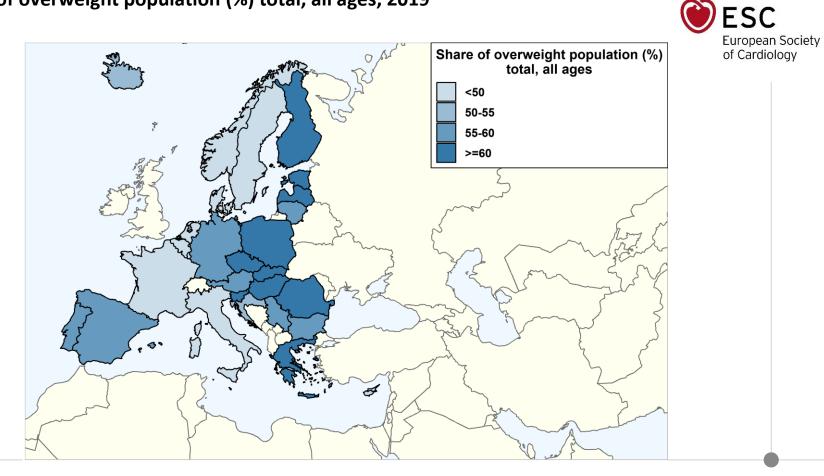
### Share of overweight population (%) total, all ages, 2019





Source: Atlas survey. https://eatlas.escardio.org/

### Share of overweight population (%) total, all ages, 2019



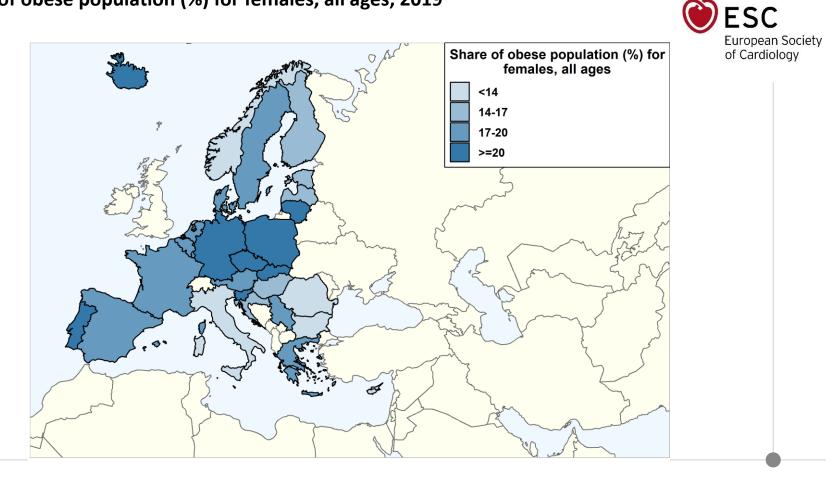
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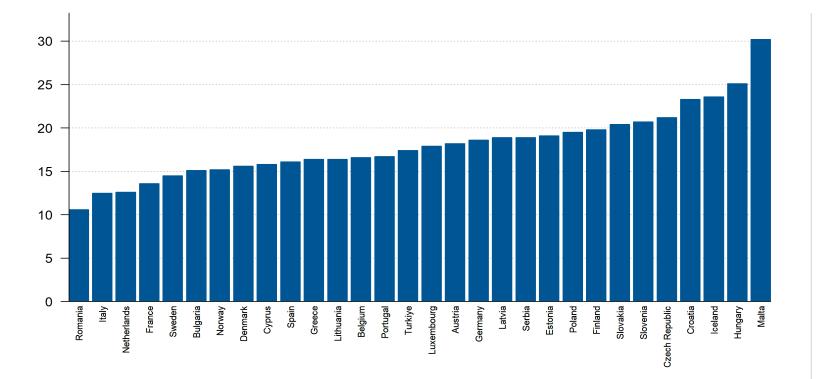
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Share of obese population (%) for females, all ages, 2019

### Share of obese population (%) for females, all ages, 2019



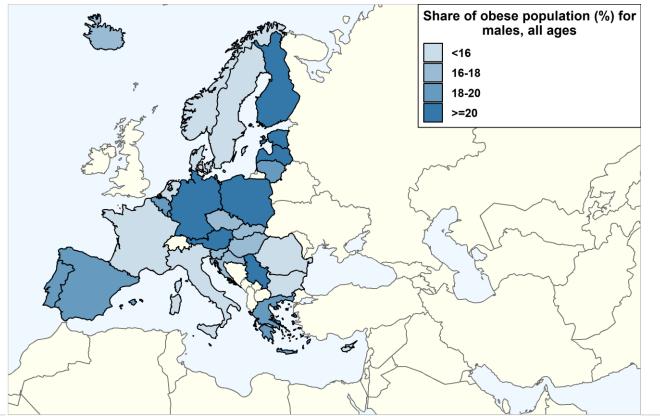
### Share of obese population (%) for males, all ages, 2019



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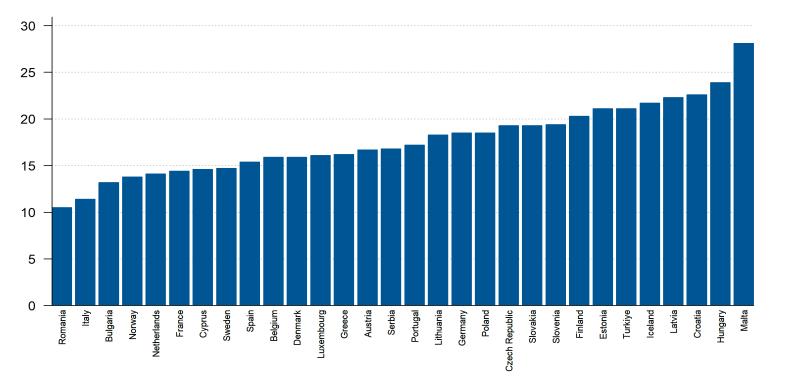
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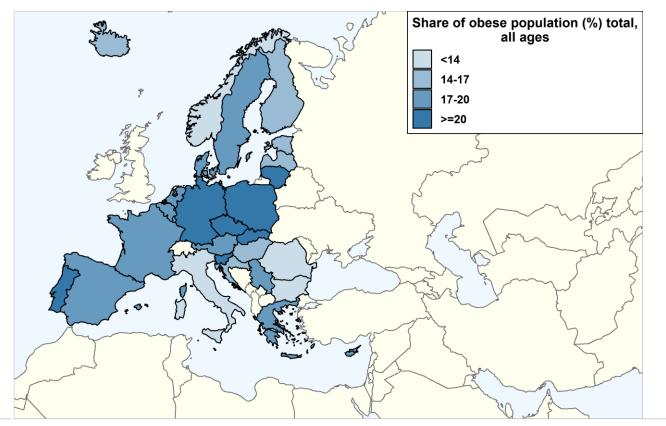


### Share of obese population (%) total, all ages, 2019



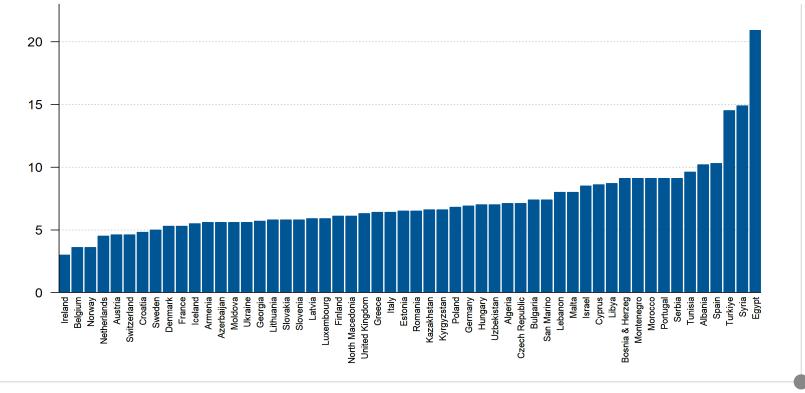
### Share of obese population (%) total, all ages, 2019





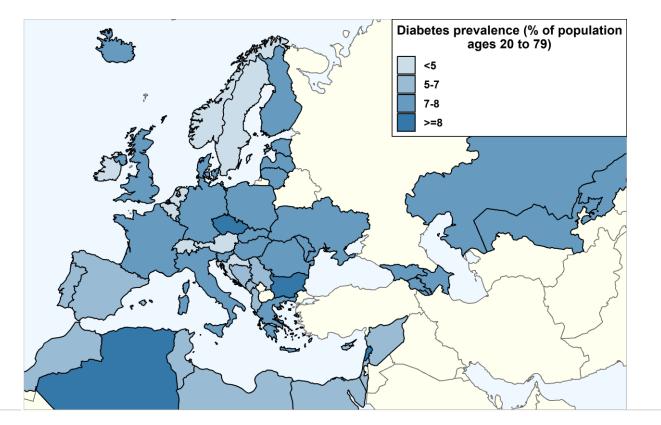
Diabetes prevalence (% of population ages 20 to 79), 2021





Source: World Bank. https://eatlas.escardio.org/





Source: World Bank. https://eatlas.escardio.org/



# **CVD Mortality**

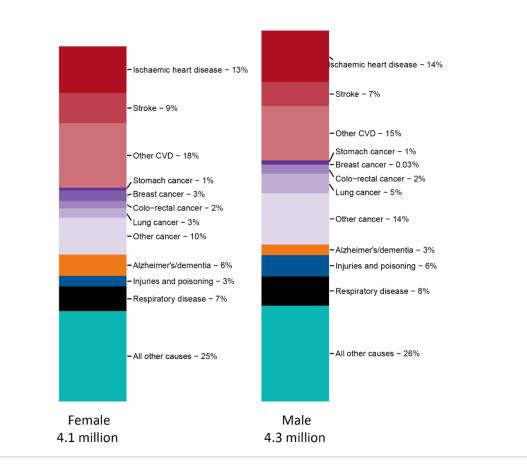
#### Age-standardized CVD mortality per 100,000

FEMALE 🤜 <300 300-400 400-600 600-900 >=900 MALE

Age-standardized mortality from CVD (per 100 000 people)



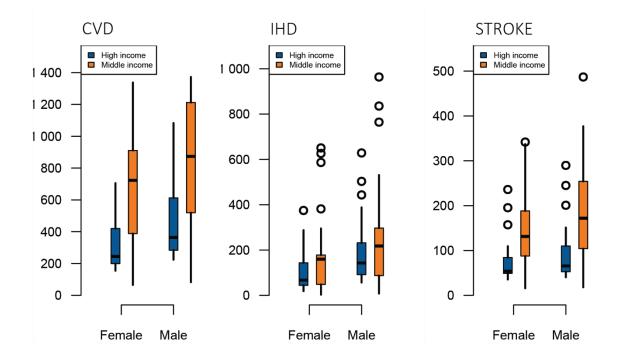
#### Causes of death in females and males





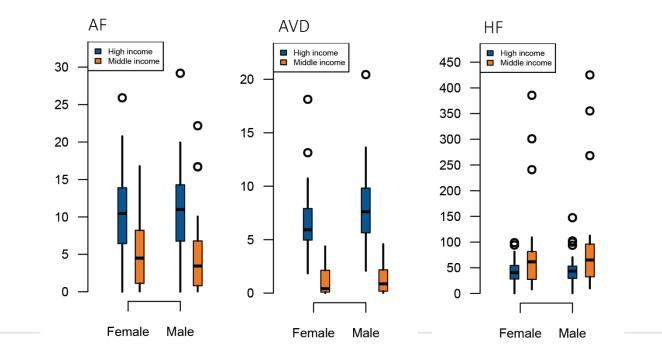
Age-standardized mortality rate per 100 000 due to cardiovascular disease (CVD), ischaemic heart disease (IHD) and stroke stratified by sex and national income status.





Age-standardized mortality rate per 100 000 due to atrial fibrillation (AF), non-rheumatic calcific aortic valve disease (AVD), and heart failure (HF) stratified by sex and national income status.





## **Legal Mentions**



### Legal Mentions



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Use of the data from World Health Organisation (WHO).

The World Health Organization data is made available under the : http://apps.who.int/gho/data

□ Use of the data from the Institute of Health Metrics and Evaluation (IHME). The IHME data is made available under : <u>http://ghdx.healthdata.org/gbd-results-tool</u>

□ Use of the data from the Organization for Economic Co-operation and Development (OECD). The OECD data is made available under the : <u>https://stats.oecd.org/index.aspx?DataSetCode</u>



# **Abbreviations**



### Abbreviations

- BMI Body Mass Index
- CT Computed Tomography
- CHE Current health expenditure
- CHI Compulsory Health Insurance
- DALY Disability-Adjusted Life Years
- ESC European Society of Cardiology
- EP Electrophysiology Procedures
- GGHE-D Domestic General Government Health Expenditure
- GDP Gross domestic product
- ICD Implantable Cardioverter Defibrillator
- LVAD Left Ventricular Assist Devices
- OOPs Out-of-pocket payments
- MRI Magnetic Resonance Imaging
- YLL Years of life lost
- YLD Years lived with disability

