

INEQUALITIES IN THE BURDEN OF DISEASE OF 44 EUROPEAN COUNTRIES FROM 1990 TO 2019

Orsolya Varga, Jonila Gabrani, Periklis Charalampous, Grant MA Wyper, Sarah Cuschieri, Diana Alecsandra Grad, Brigid Unim, Enkeleint A. Mechili, José Chen-Xu, Elena von der Lippe, Juanita A. Haagsma

Background

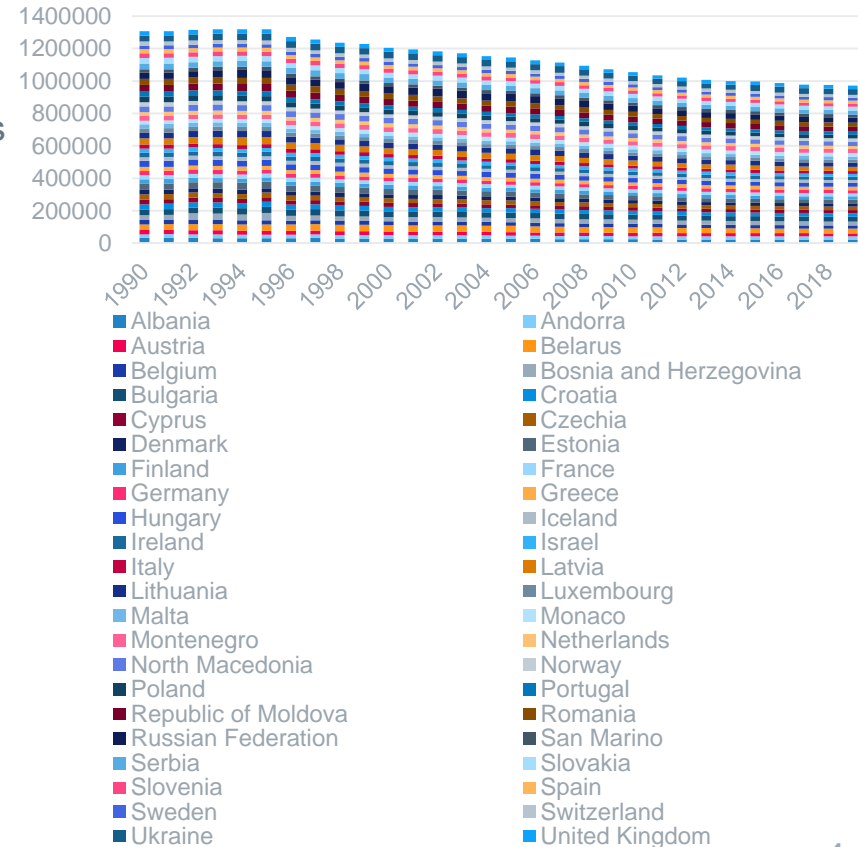
- ▷ The roots of „health equities” in social medicine go back to the 19th century, when it was recognized that social and class inequalities lead to inequalities in health.
- ▷ Health inequalities are unjust and avoidable disparities in health status between countries or sub-groups of a population.

Background

- ▷ The Constitution of the WHO (1946): “the highest standards of health should be within reach of all, without distinction of race, religion, political belief, economic or social condition”.
- ▷ UN: sustainable development goals aiming „leave no one behind”,
- ▷ OECD has produced several analysis,
- ▷ EU: e.g. reduce health inequalities through the Horizon 2020 programme for research and innovation.

Background

- Comparing Disability Adjusted Life Years (DALYs) rates across populations can facilitate the understanding of health inequalities, serving as a basis for evidence based policy interventions.
- Insights into cause-specific inequalities across countries and over time, using the DALY metric are currently limited in Europe.
- The **objective** of this study was to **assess inequalities in DALY rates between 44 countries in Europe over time, by all-cause and cause-specific category**



Descriptive study

Global Burden of Disease 2019 results

Age-standardized DALY

44 European countries

from 1990 to 2019

Inequality between countries reported

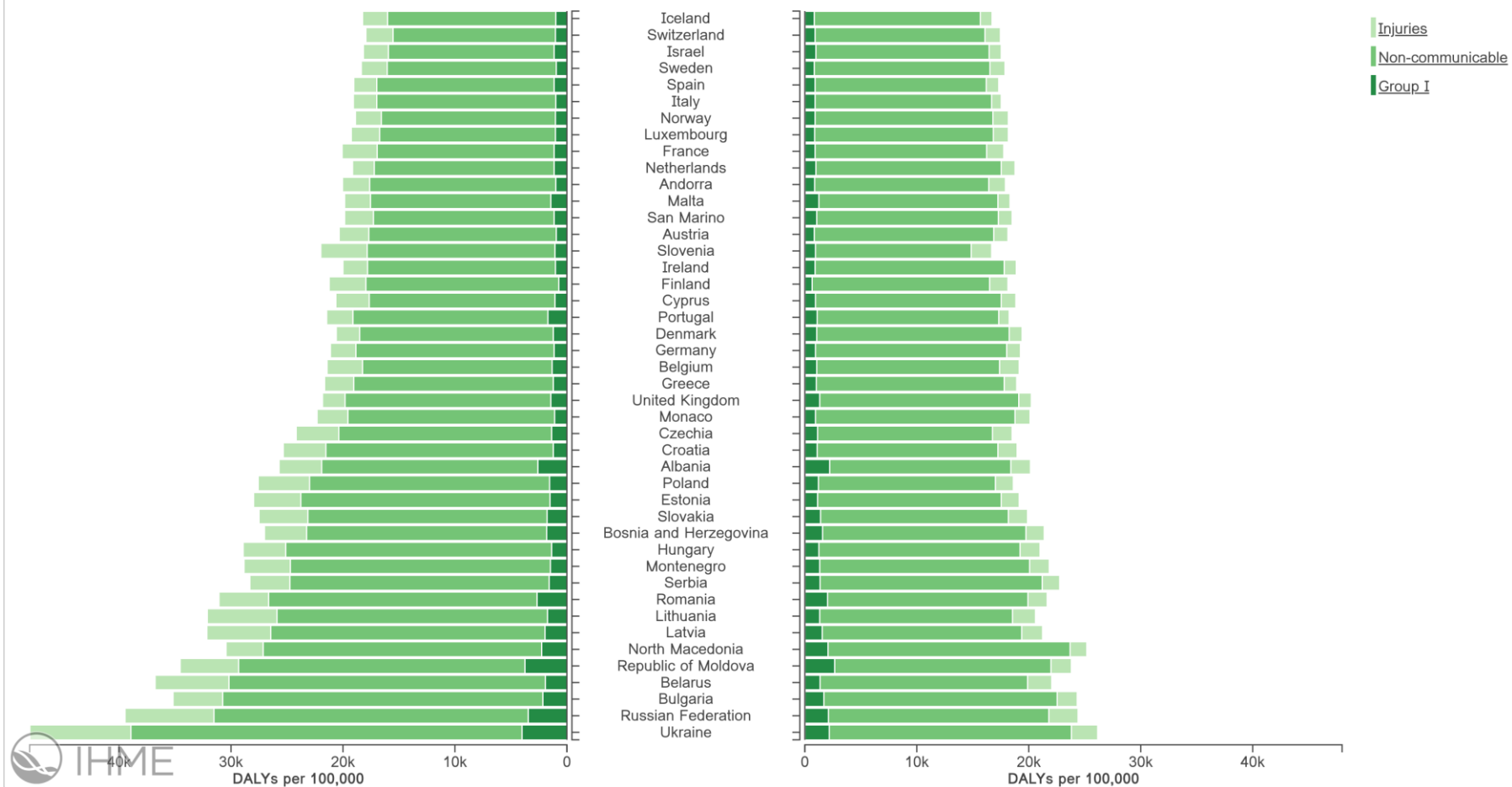
using the ratio of DALY rate for the highest-ranking country to the lowest-ranking country in each year expressing the difference between DALY experiences in Europe.

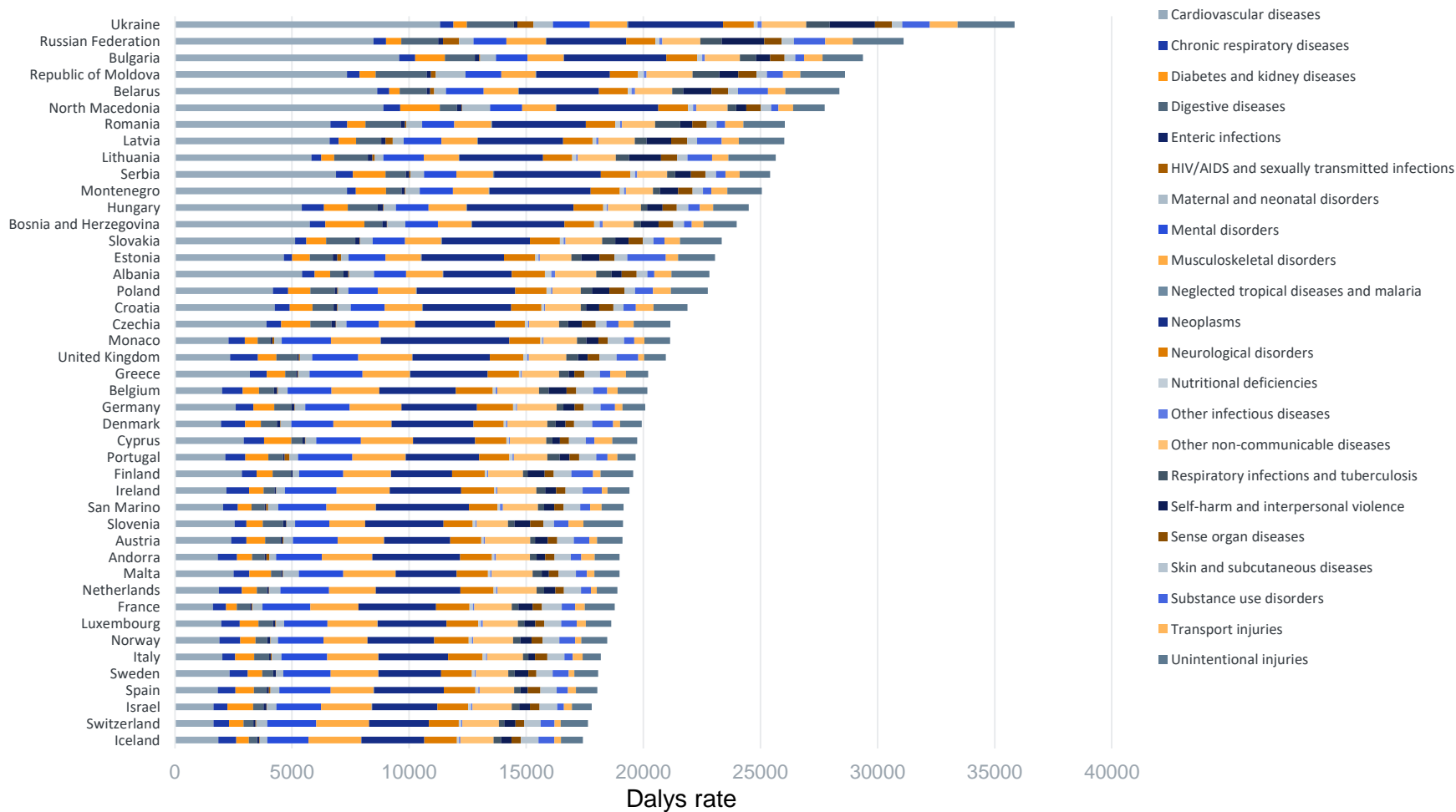
- During the period, the all-cause DALY rate ratio had peaks around 2.4, in 1994 (highest ranking country: Russian Federation; lowest ranking country: San Marino) and reduced to 2.0 in 2019 (highest ranking country: Ukraine; lowest ranking country: Iceland).



Males, Age-standardized, 2019

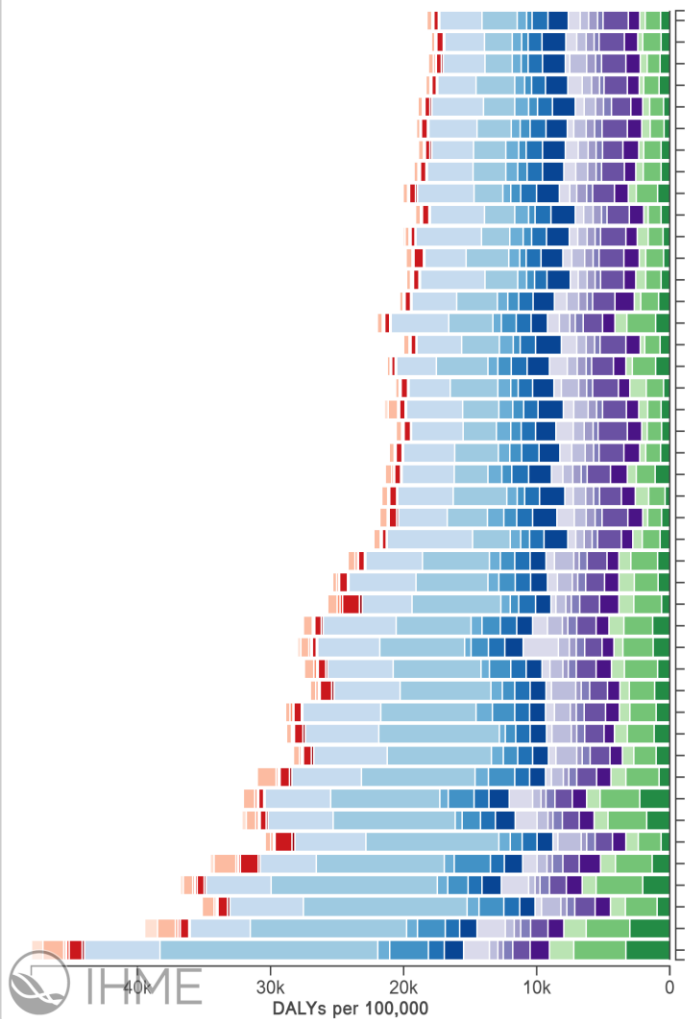
Females, Age-standardized, 2019



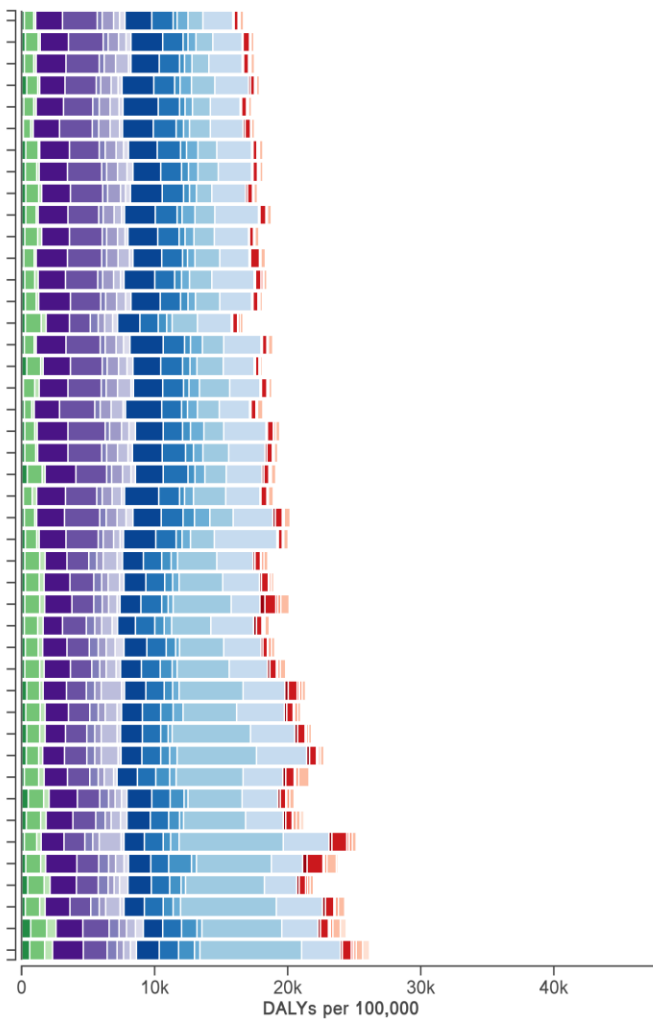


Males, Age-standardized, 2019

Females, Age-standardized, 2019



- Iceland
- Switzerland
- Israel
- Sweden
- Spain
- Italy
- Norway
- Luxembourg
- France
- Netherlands
- Andorra
- Malta
- San Marino
- Austria
- Slovenia
- Ireland
- Finland
- Cyprus
- Portugal
- Denmark
- Germany
- Belgium
- Greece
- United Kingdom
- Monaco
- Czechia
- Croatia
- Albania
- Poland
- Estonia
- Slovakia
- Bosnia and Herzegovina
- Hungary
- Montenegro
- Serbia
- Romania
- Lithuania
- Latvia
- North Macedonia
- Republic of Moldova
- Belarus
- Bulgaria
- Russian Federation
- Ukraine



- HIV/AIDS & STIs
- Respiratory infections & TB
- Enteric infections
- NTDs & malaria
- Other infectious
- Maternal & neonatal
- Nutritional deficiencies
- Neoplasms
- Cardiovascular diseases
- Chronic respiratory
- Digestive diseases
- Neurological disorders
- Mental disorders
- Substance use
- Diabetes & CKD
- Skin diseases
- Sense organ diseases
- Musculoskeletal disorders
- Other non-communicable
- Transport injuries
- Unintentional inj
- Self-harm & violence

Conclusion

Since health inequalities are mainly rooted in economic and social causes, they require a comprehensive solution. Still, the health sector's potential, especially prevention efforts targeting non-communicable diseases, should not be overlooked.

Key messages



Need for disease-specific health inequality studies



Need for policy interventions for non-communicable diseases and their risk factors

Thank you for
your attention!

Acknowledgments

- ▶ Nour Mahrouseh, PhD student