european burden-eu of disease network

1st European Workshop on Burden of Disease

18-19 September 2025

Brussels, Belgium

sciensano

National Institute for Public Health and the Environment
Ministry of Health, Welfare and Sport

COST Action CA18218

European Burden of Disease Network

cost
EUROPEAN COOPERATION
IN SCIENCE & TECHNOLOGY



www.burden-eu.net

Technical platform to integrate and strengthen capacity in burden of disease assessment across Europe and beyond

570 members · 72 countries

World Health Organization

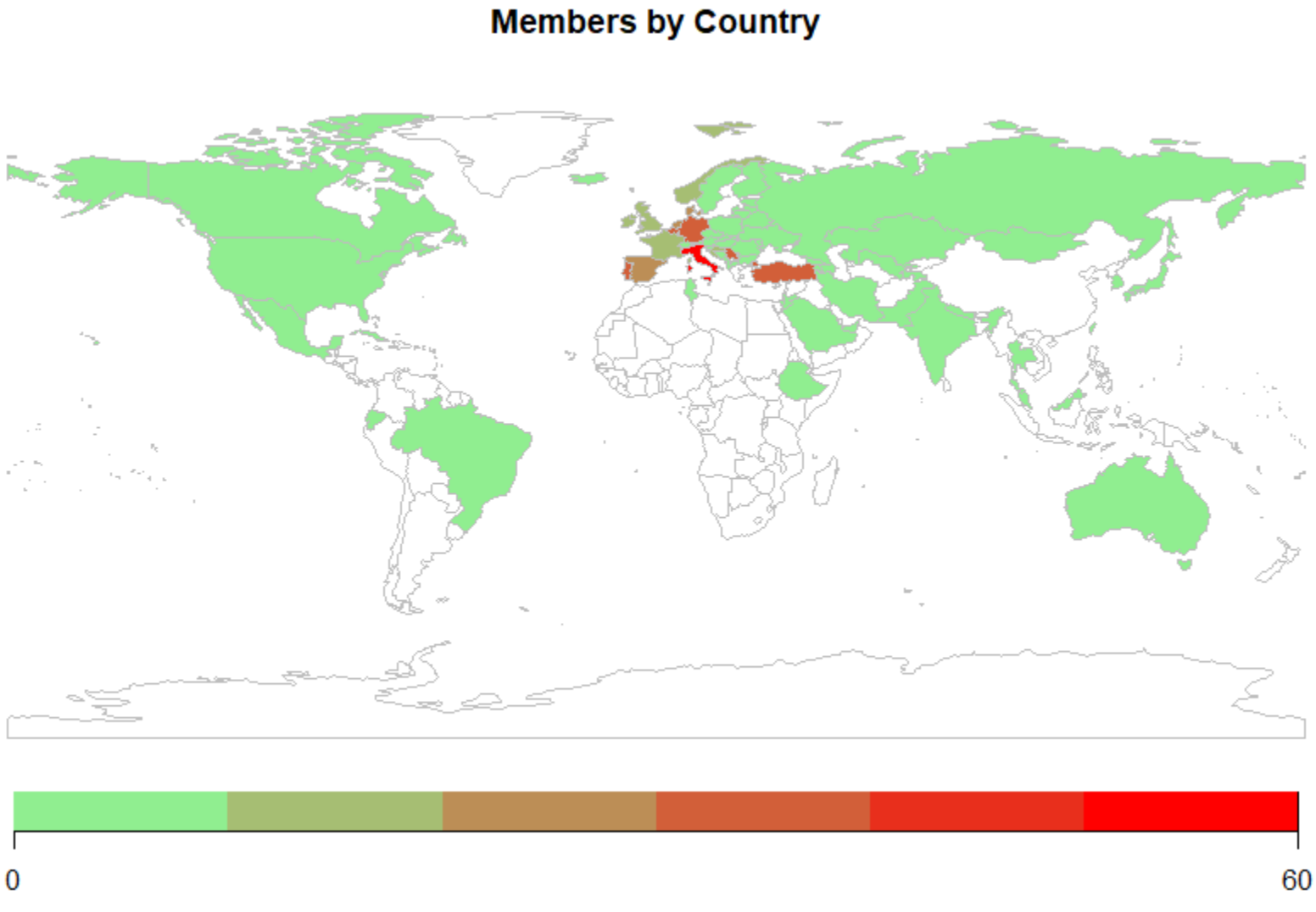
European Observatory on Health Systems and Policies
a partnership hosted by WHO

OECD
BETTER POLICIES FOR BETTER LIVES

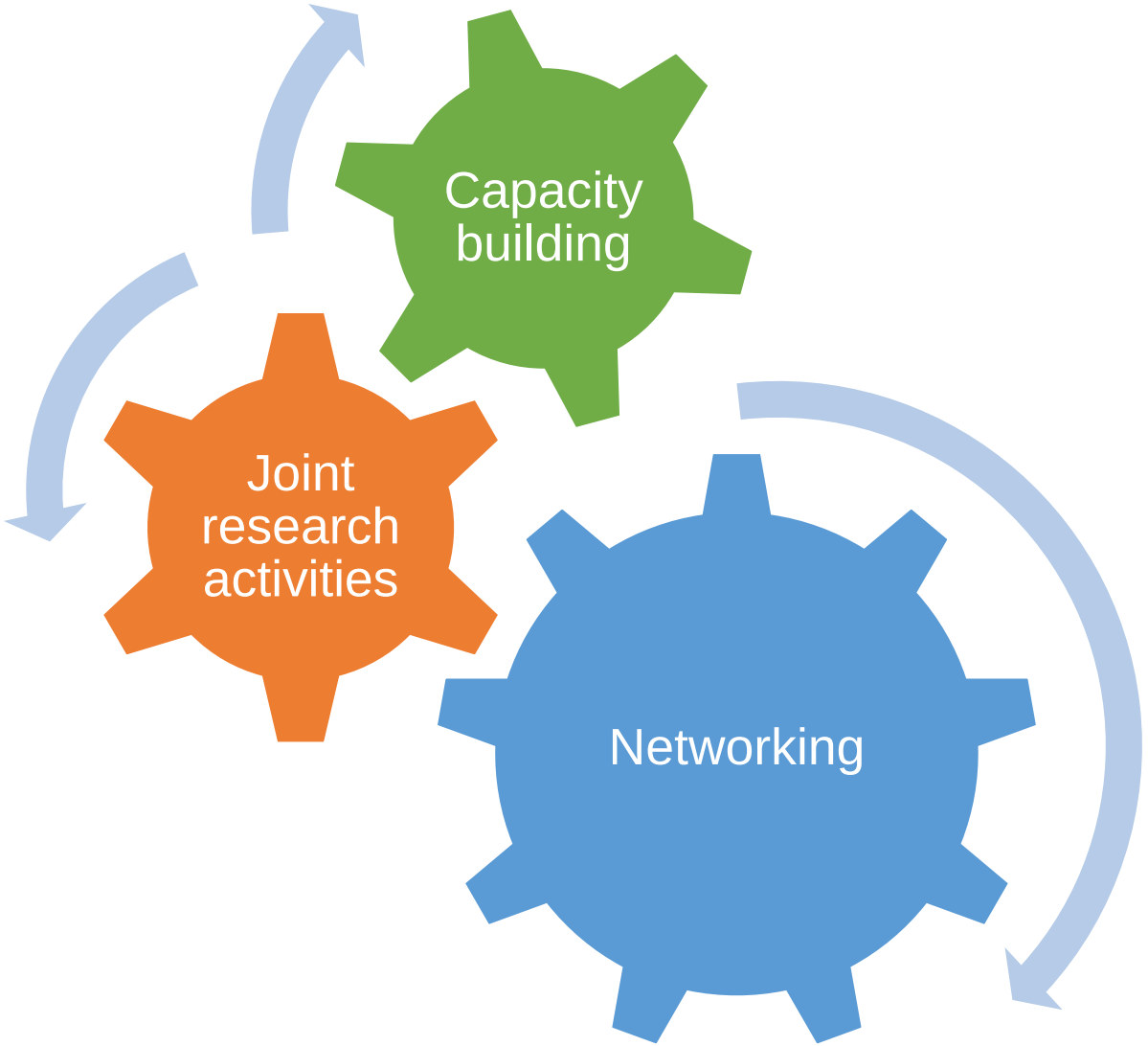
efsa
EUROPEAN FOOD SAFETY AUTHORITY

IARC

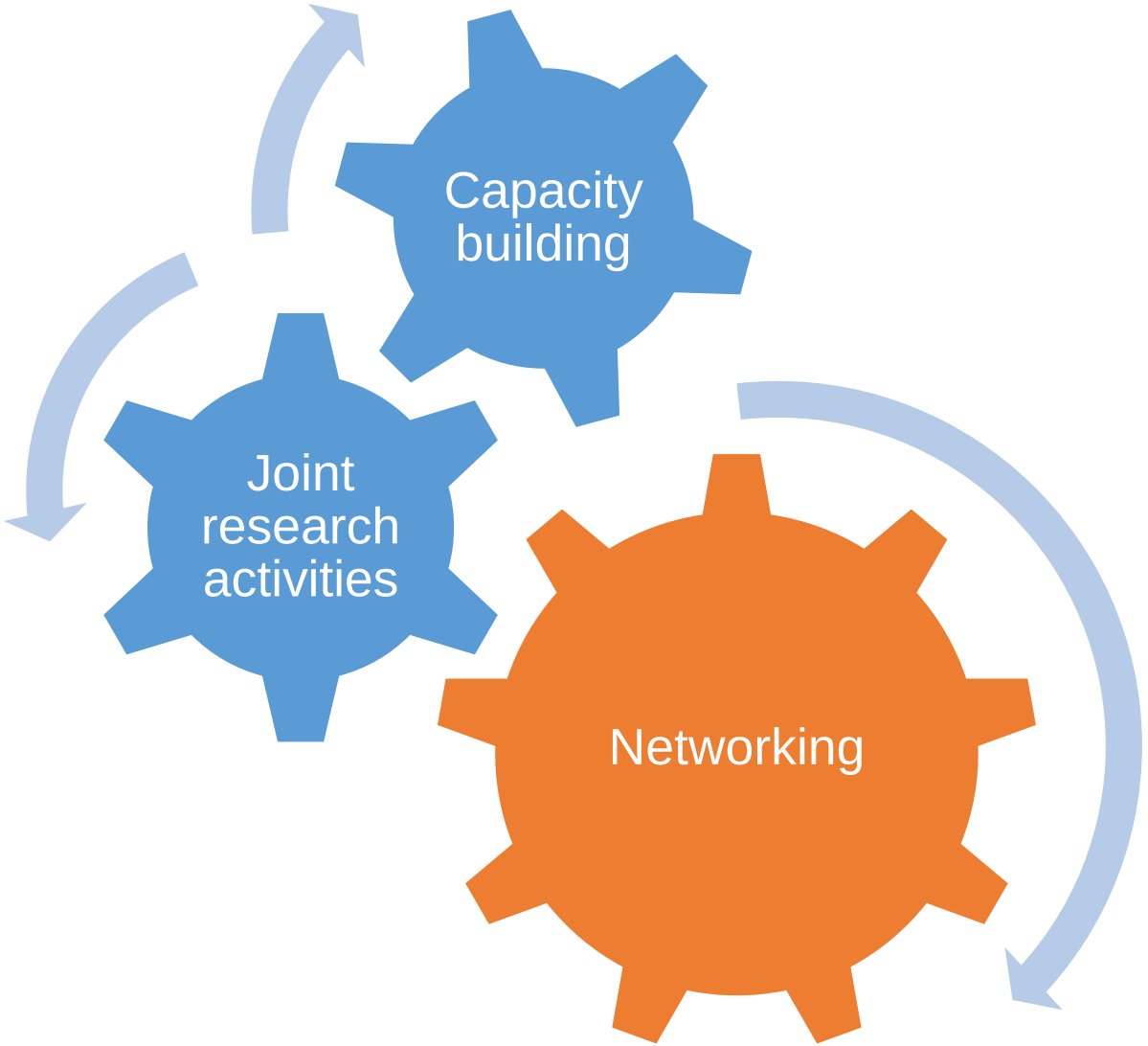
ecdc
EUROPEAN CENTRE FOR DISEASE PREVENTION AND CONTROL

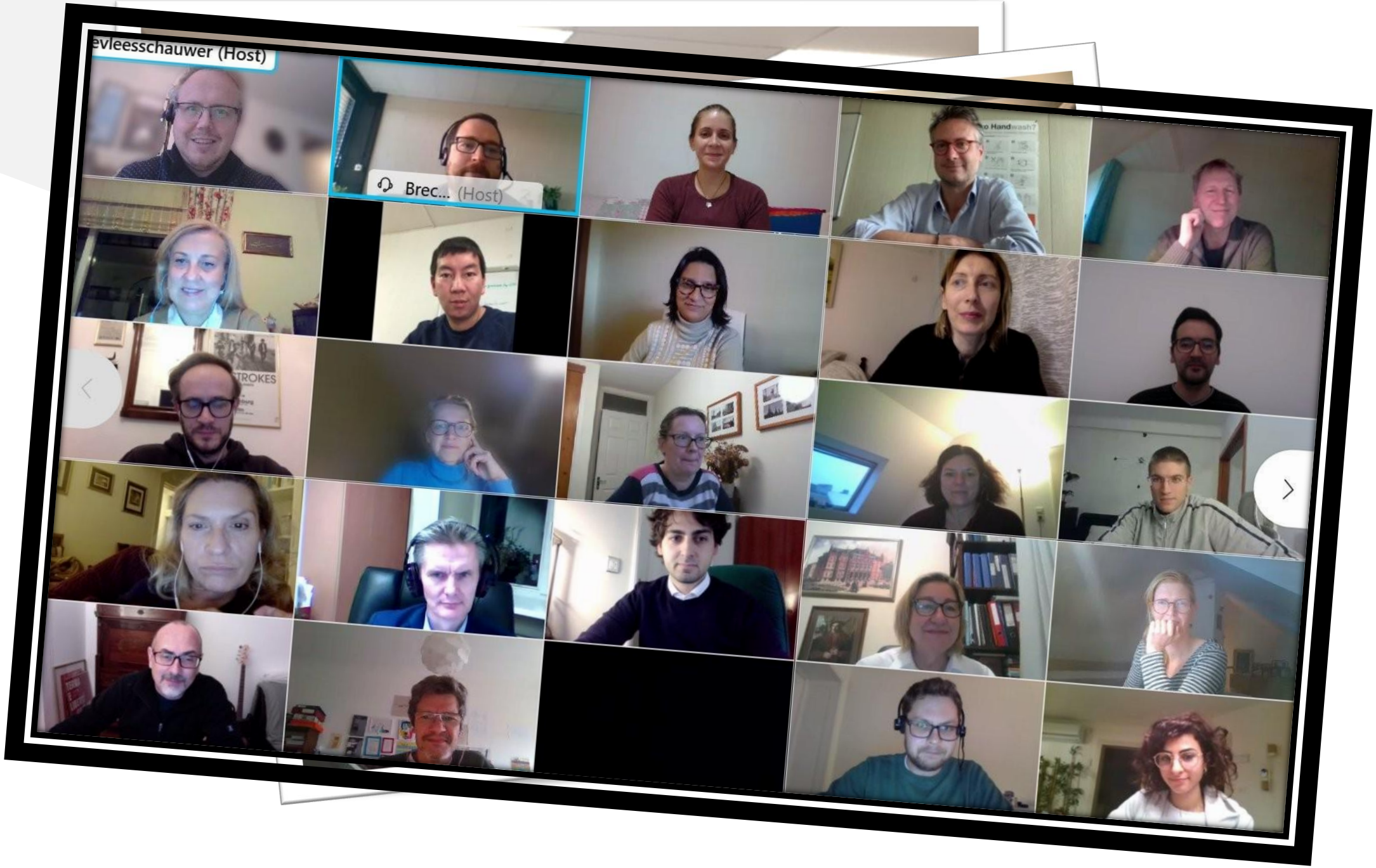


european
burden-eu
of disease
network



european
burden-eu
of disease
network



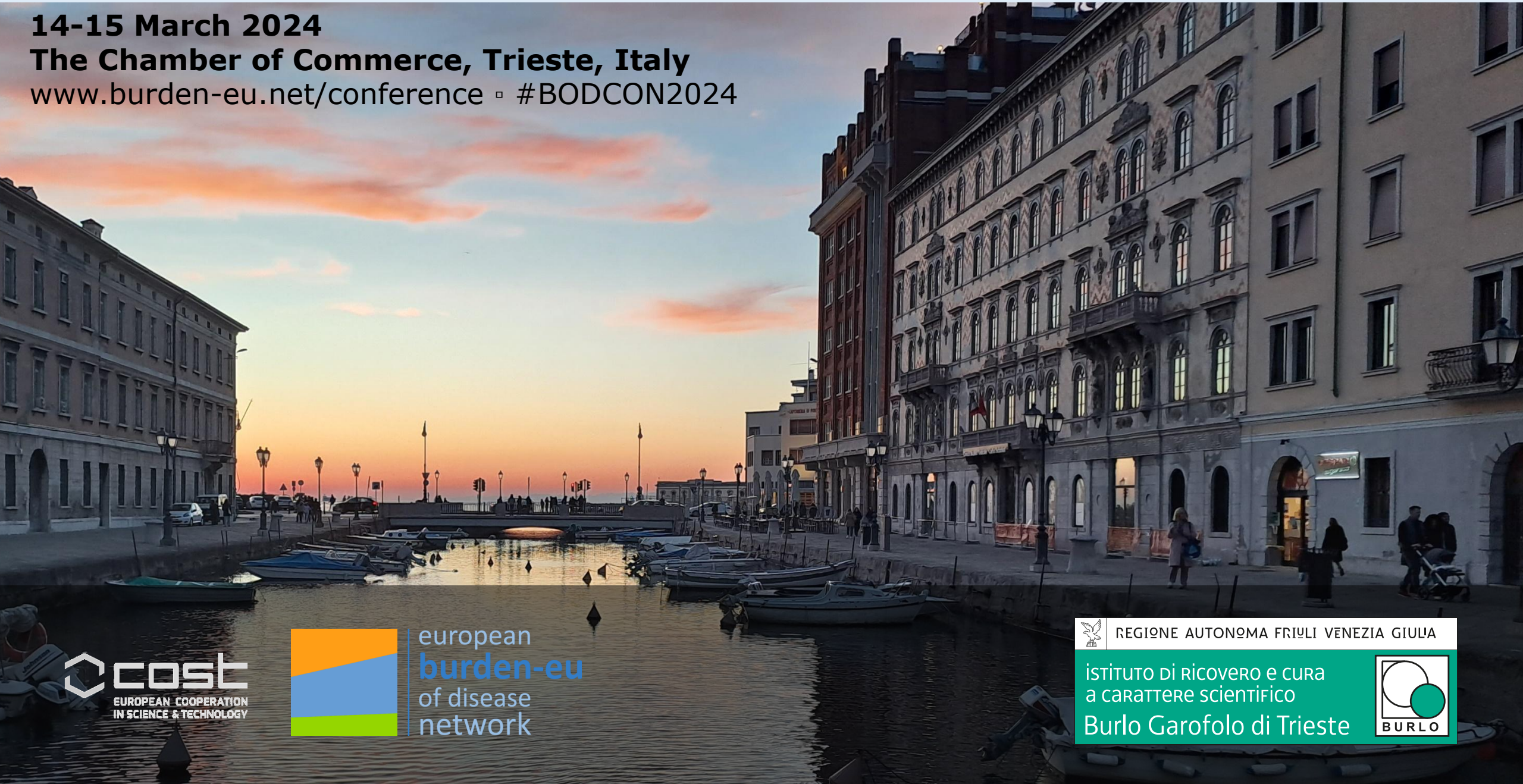

evleesschauwer (Host)
Brec... (Host)

International Burden of Disease Conference
15-16 September 2022, Belgrade, Serbia



https://www.burden-eu.net/conference

2nd International Burden of Disease Conference



14-15 March 2024
The Chamber of Commerce, Trieste, Italy
www.burden-eu.net/conference ▫ #BODCON2024

cost
EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY

european burden-eu of disease network

REGIONE AUTONOMA FRIULI VENEZIA GIULIA
ISTITUTO DI RICOVERO E CURA A CARATTERE SCIENTIFICO
Burlo Garofolo di Trieste
BURLO



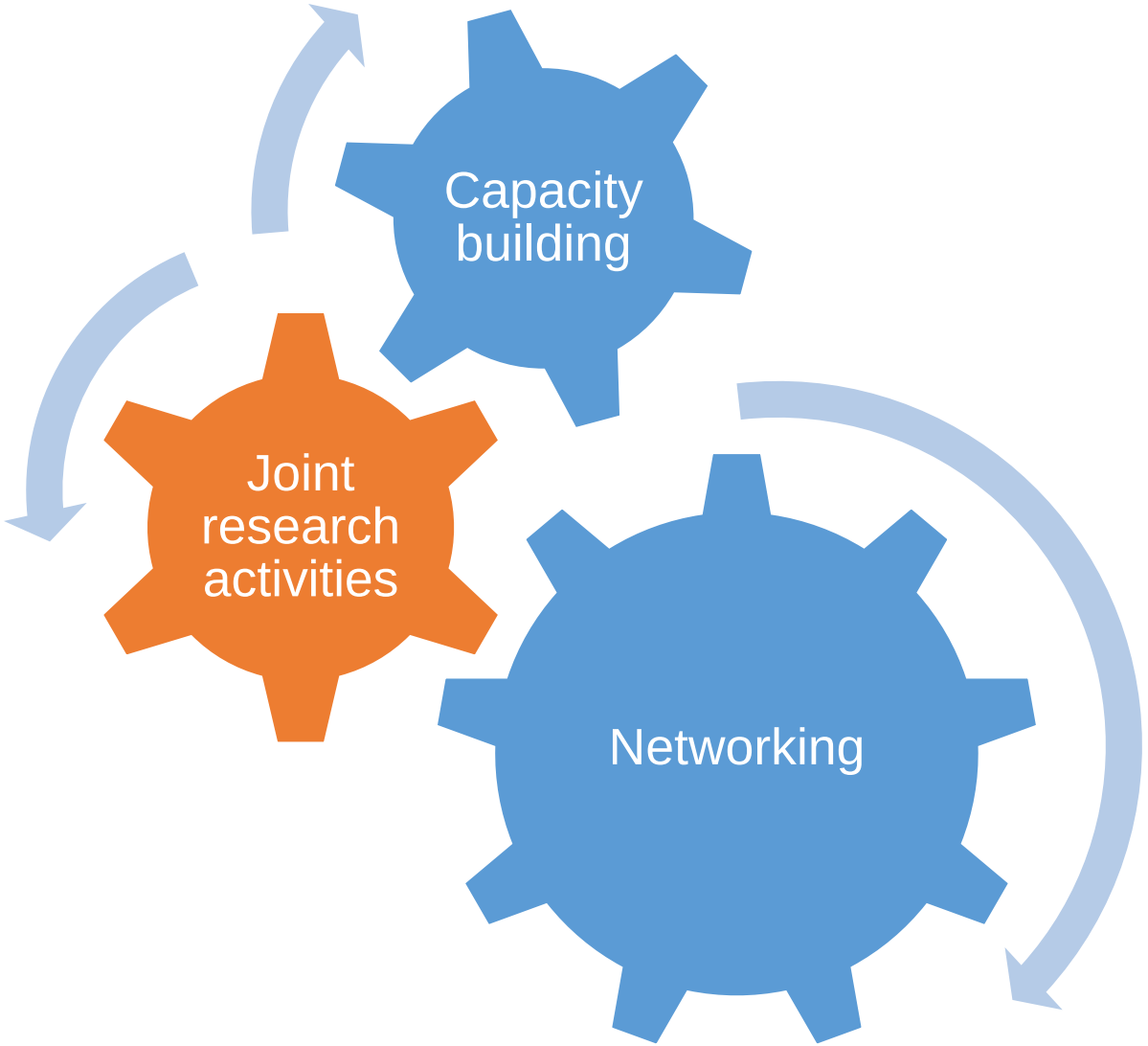
17th European Public Health Conference
13-15 November 2024, Lisbon, Portugal
www.burden-eu.net/eph2024



Task Forces

- Launched after 3rd WG meeting Jan 2022
- Small groups, dedicated to specific topics
  - COVID-19
  - Rare diseases
  - Social inequalities
  - PFAS
  - Air pollution & noise
  - Redistribution of ill-defined deaths
  - ...
- Tailored, technical discussions

european
burden-eu
of disease
network



European Journal of Public Health, Vol. 32, No. 2, 289–296
© The Author(s) 2022. Published by Oxford University Press on behalf of the European Public Health Association.
This is an Open Access article distributed under the terms of the Creative Commons Attribution License (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted reuse, distribution, and reproduction in any medium, provided the original work is properly cited.
https://doi.org/10.1093/eurpub/ckab218 Advance Access published on 7 January 2022

Burden of non-communicable disease studies in Europe: a systematic review of data sources and methodological choices

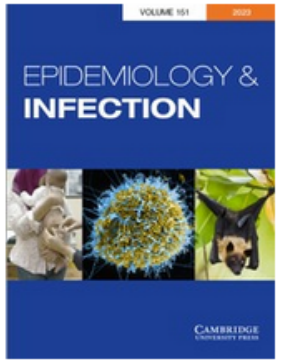
Periklis Charalampous [1], Vanessa Gorasso[2,3], Dietrich Plass[4], Sara M. Pires[5], Elena von der Lippe[6], Alibek Mereke[7], Jane Idavain[8], Katarzyna Kissimova-Skarbek[9], Joana Nazaré Morgado[10], Che Henry Ngwa[11], Isabel Noguer[12], Alicia Padron-Monedero[12], María José Santi-Cano[13], Rodrigo Sarmiento[12,14], Brecht Devleesschauwer[3,15], Juanita A. Haagsma[1], The COST Action CA18218 Participants*

Systematic Review | Open Access | Published: 25 June 2023

Burden of disease attributable to risk factors in European countries: a scoping literature review

Vanessa Gorasso, Joana Nazaré Morgado, Periklis Charalampous, Sara M. Pires, Juanita A. Haagsma, João Vasco Santos, Jane Idavain, Che Henry Ngwa, Isabel Noguer, Alicia Padron-Monedero, Rodrigo Sarmiento, Vera Pinheiro, Elena Von der Lippe, Lea Sletting Jakobsen, Brecht Devleesschauwer, Dietrich Plass & The COST Action CA18218 participants

Archives of Public Health **81**, Article number: 116 (2023) | Cite this article



Burden of infectious disease studies in Europe and the United Kingdom: a review of methodological design choices

Published online by Cambridge University Press: **09 January 2023**

Periklis Charalampous, Juanita A. Haagsma, Lea S. Jakobsen, Vanessa Gorasso, Isabel Noguer, Alicia Padron-Monedero, Rodrigo Sarmiento, João Vasco Santos, Scott A. McDonald and

Charalampous *et al. BMC Public Health* (2022) 22:1564
https://doi.org/10.1186/s12889-022-13925-z

BMC Public Health

RESEARCH Open Access

Methodological considerations in injury burden of disease studies across Europe: a systematic literature review

Periklis Charalampous[1*], Elena Pallari[2], Vanessa Gorasso[3,4], Elena von der Lippe[5], Brecht Devleesschauwer[4,6], Sara M. Pires[7], Dietrich Plass[8], Jane Idavain[9], Che Henry Ngwa[10,11], Isabel Noguer[12], Alicia Padron-Monedero[12], Rodrigo Sarmiento[12,13], Marek Majdan[14], Balázs Ádám[15,16], Ala'a AlKerwi[17], Seila Cilovic-Lagarija[18], Benjamin Clarsen[19,20,21], Barbara Corso[22], Sarah Cuschieri[23], Keren Dopelt[24,25], Mary Economou[26], Florian Fischer[27], Alberto Freitas[28,29], Juan Manuel García-González[30], Federica Gazzelloni[31], Artemis Gkitakou[32], Hakan Gulmez[33], Paul Hynds[34], Gaetano Isola[35], Lea S. Jakobsen[7], Zubair Kabir[36], Katarzyna Kissimova-Skarbek[37], Ann Kristin Knudsen[20], Naime Meriç Konar[38], Carina Ladeira[39,40], Brian Lassen[7], Aaron Liew[41], Marjeta Majer[42], Enkeleint A. Mechili[43,44], Alibek Mereke[45], Lorenzo Monasta[46], Stefania Mondello[47], Joana Nazaré Morgado[48], Evangelia Nena[49], Edmond S. W. Ng[50], Vikram Niranjan[51], Iskra Alexandra Nola[42], Rónán O'Caoimh[52], Panagiotis Petrou[53], Vera Pinheiro[28], Miguel Reina Ortiz[54], Silvia Riva[55], Hanen Samouda[56], João Vasco Santos[28,29,57], Cornelia Melinda Adi Santoso[58], Milena Santric Milicevic[59], Dimitrios Skempes[60], Ana Catarina Sousa[61,62], Niko Speybroeck[63], Fimka Tozija[64,65], Brigid Unim[66], Hilal Bektaş Uysal[67], Fabrizio Giovanni Vaccaro[68], Orsolya Varga[16], Milena Vasic[69,70], Francesco Saverio Violante[71,72], Grant M. A. Wyper[73], Suzanne Polinder[1] and Juanita A. Haagsma[1]

Research | Open access | Published: 24 August 2023

The burden of breast, cervical, and colon and rectum cancer in the Balkan countries, 1990–2019 and forecast to 2030

Jovana Todorovic, Zeljka Stamenkovic, Aleksandar Stevanovic, Natasa Terzic, Katarzyna Kissimova-Skarbek, Fimka Tozija, Enkeleint A. Mechili, Brecht Devleesschauwer, Zorica Terzic-Supic, Milena Vasic, Vesna Bjegovic-Mikanovic, Milena Santric-Milicevic ✉ & the COST Action 18218 participants Burden of Disease Collaborator Network

Archives of Public Health 81, Article number: 156 (2023) | Cite this article

1316 Accesses | 1 Altmetric | Metrics

Haagsma et al. Archives of Public Health (2022) 80:142
https://doi.org/10.1186/s13690-022-00891-6

Open Access

Check for updates

in Central, Eastern, and
ystematic
2019

Bogdan Oancea, Alicia Padron-Monedero, Marina Pinheiro[55], Ivo Rakovac[124], Luca Ronfani[109], Dominic Sagoe[130], Francesco Sanmarchi, Aziz Sheikh[134,135], Rahman Shiri[136], Siddharudha Shivalli[137], Inga Dora Sigfusdottir, Valentin Yurievich Skryabin[141], Anna Aleksandrovna Skryabina[142], Catalin-Gabriel Smarandache[113], Bogdan Socea[113], Raúl A. R. C. Sousa[143], Paschalis Steiropoulos[144], Rafael Tabarés-Seisdedos[22,145], Marcos Roberto Tovani-Palone[146], Fimka Tozija[147], Sarah Van de Velde[148], Tommi Juhani Vasankari[149], Massimiliano Veroux[150], Francesco S. Violante[151,152], Vasiliy Vlassov[153], Yanzhong Wang[154], Ali Yadollahpour[155], Sanni Yaya[156,157], Mikhail Sergeevich Zastrozhin[158,159], Anasthasia Zastrozhina[160], Suzanne Polinder[1] and Marek Majdan[161]

https://www.burden-eu.net/outputs/covid-19

COVID-19

COVID-19 has affected many countries in Europe in beyond. There is currently a growing interest to quantify the disease burden of COVID-19, measure its population health impact and compare it to other diseases. On this page, we compile burden of disease resources specifically fo

Burden of COVID-19 Task Force

The Burden of COVID-19 Task Force brings together members who are conducting or interested in launching national studies to estimate t of COVID-19. The TF meets approximately every six weeks to discuss technical aspects of COVID-19 burden calculation.

More information about the Task Force is available here.

Burden of COVID-19 calculation protocol

The burden-eu Core Group has prepared a protocol to provide guidance for anyone planning to assess the burden of disease of COVI DALYs. It focuses on the direct health impact of the disease, and describes the data requirements, the methods, and considerations f It also aims to foster harmonization of methodologies for estimating the burden of disease of COVID-19 across countries.

You can download the protocol here.

Burden of COVID-19 webinars

On Friday 20 November 2020, our COST Action has organized a webinar on quantifying COVID-19 disease burden. You can repla presentations here.

Burden of COVID-19 publications

DALY calculation methods for COVID-19

Wyper GM, Assunção RM, Colzani E, Grant I, Haagsma JA, Lagerweij G, Von der Lippe E, McDonald SA, Pires SM, Porst M, Speybroeck N, Devleesschauwer B.
Burden of disease methods: a guide to calculate COVID-19 disability-adjusted life years. *Int J Public Health.* 2021;66:619011. doi: 10.3389/ijph.2021.619011



RESEARCH

Open Access

Estimating the direct Covid-19 disability-adjusted life years impact on the Malta population for the first full y

Sarah Cuschieri[1*], Neville Calleja[2,3], Brecht Devleesschauwer[4,5]

Measuring the direct population impact of COVID-19 in Scotland, 2020: estimating disability-adjusted life years (DALYs) during the first full ndar year

erry McCartney[1], Colin Fischbacher[3], Oliver Moro[2], Niko Speybroeck[5], Brecht

Research | Open access | Published: 04 September 2023

The direct disease burden of COVID-19 in Belgium in 2020 and 2021

Brecht Devleesschauwer, Lander Willem, Jure Jurčev
Monteiro Pires, Nina Van Goethem, Philippe Beutel
Niko Speybroeck, Niel Hens & Robby De Pauw

M. A. Wyper, Sara

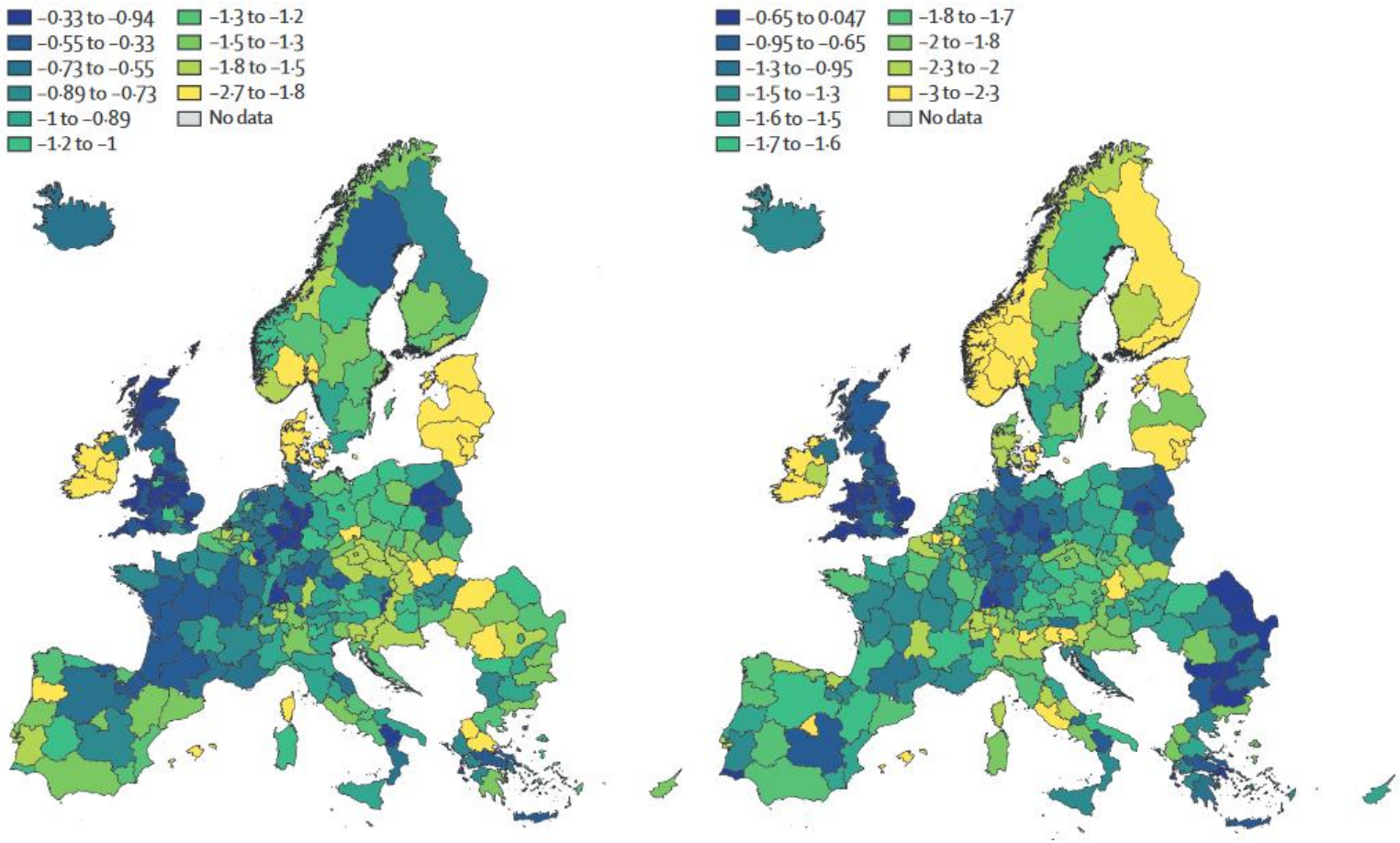
BMC Public Health **23**, Article number: 1707 (202

The estimated disease burden of acute COVID-19 in the Netherlands in 2020, in disability-adjusted life-years

Scott A. McDonald[1], Giske R. Lagerweij[1], Pieter de Boer[1], Hester E. de Melker[1], Roan Pijnacker[1], Lapo Mughini Gras[1], Mirjam E. Kretzschmar[1,2], Gerco den Hartog[1], Arianne B. van Gageldonk-Lafeber[1], RIVM COVID-19 surveillance and epidemiology team[1], Susan van den Hof[1], Jacco Wallinga[1,3]

Subnational inequalities in years of life lost and associations with socioeconomic factors in pre-pandemic Europe, 2009–19: an ecological study

José Chen-Xu, Orsolya Varga*, Nour Mahrouseh, Terje Andreas Eikemo, Diana A Grad, Grant M A Wyper, Andreea Badache, Mirza Balaj, Periklis Charalampous, Mary Economou, Juanita A Haagsma, Romana Haneef, Enkeleint A Mechili, Brigid Unim, Elena von der Lippe, Carl Michael Baravelli*



Devleesschauwer *et al.*
Population Health Metrics (2024) 22:28
https://doi.org/10.1186/s12963-024-00347-9

Population Health Metrics

COMMENT

Open Access

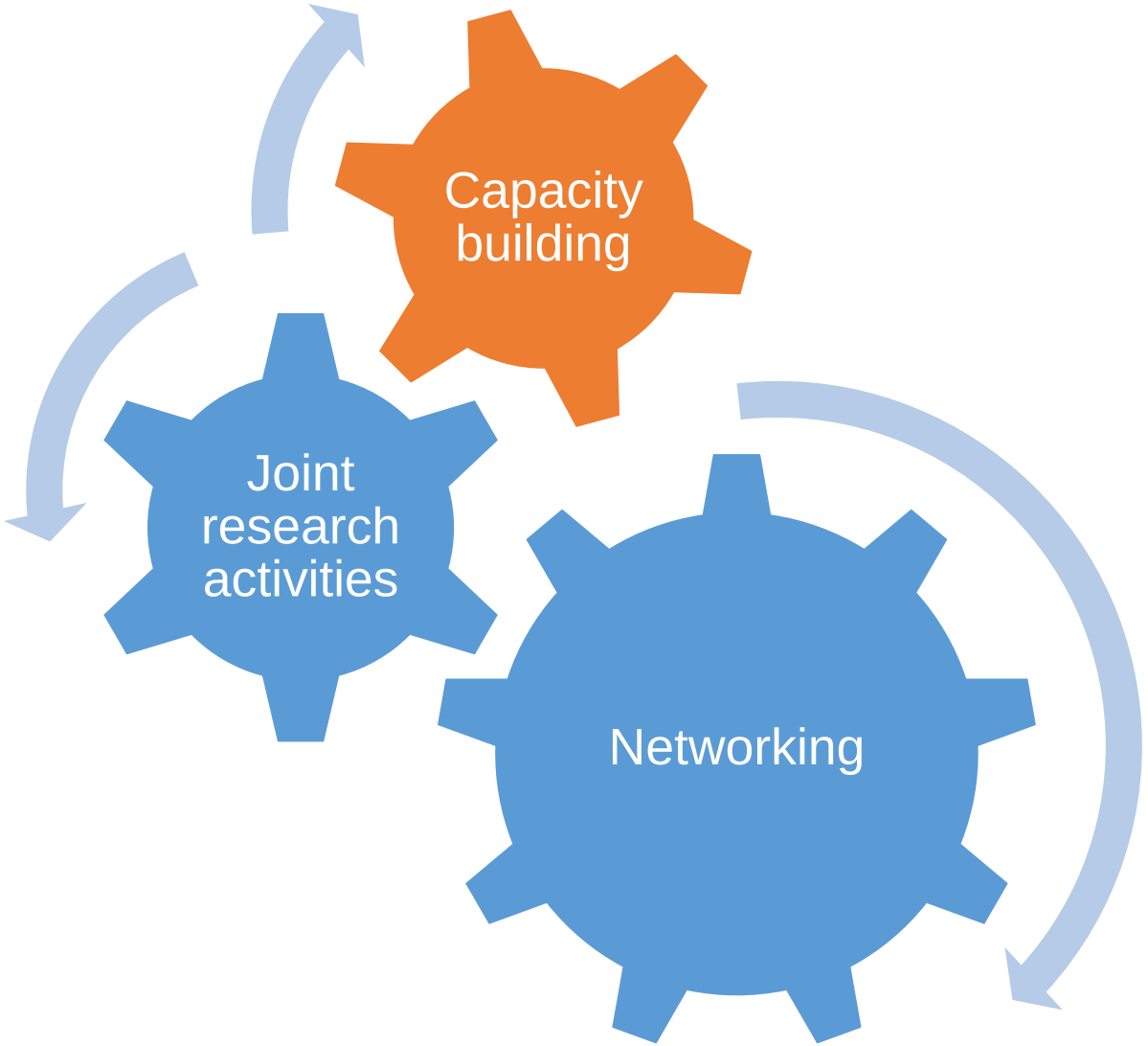
Standardised reporting of burden of disease studies: the STROBOD statement

Brecht Devleesschauwer[1,2*], Periklis Charalampous[3], Vanessa Gorasso[1], Ricardo Assunção[4], Henk Hilderink[5], Jane Idavain[6], Tina Lesnik[7], Milena Santric-Milicevic[8,9], Elena Pallari[10], Sara M. Pires[11], Dietrich Plass[12], Grant M. A. Wyper[13,14], Elena Von der Lippe[15] and Juanita A. Haagsma[3]

STandardised Reporting Of Burden Of Disease studies: the STROBOD statement

Item number	Domains and description of the recommended items	Reported on page number
TITLE		
1	Identify the study as a burden of disease assessment by including key words (e.g., YLL, YLD, DALY, burden of disease etc)	
ABSTRACT		
2	Provide a summary of objectives, study setting, methods (including data sources and key DALY design choices), results (including point estimates and, if applicable, uncertainty intervals), and conclusions.	
INTRODUCTION		
3	Present the study question(s) and its relevance for health policy or practice decision-making.	
METHODS		
Study setting		
4	Report for which health cause(s) the burden was calculated. This can be an outcome, and/or a risk factor, etc. Provide a case definition, for example, in terms of an internationally recognized classification system such as the ICD.	
5	Report the reference population and any stratification of the study population? for the burden of disease assessment, i.e., the population for which the burden has been calculated. This may include the geographical location(e.g. country or Province/State), and whether the general population or a specific subset of the population of the geographical location was considered.	

european
burden-eu
of disease
network

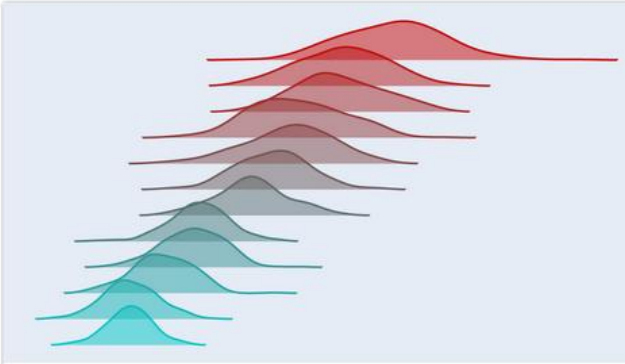




[Webinar] Measuring the burden of rare diseases

Tuesday 14 September 2021, 9h-10h30 CET

Read more:



[Webinar] Forecasting the Global Burden of Disease Study

Tuesday 29 June 2021, 16h-17h CET

Read more:



[Webinar] Burden of disease assessment for COVID-19: initial insights and future perspectives

Friday 21 May 2021, 14h-15h CET

Read more:

www.burden-eu.net/webinars



[Webinar] Activities and achievements of the Italian GBD Initiative

Thursday 29 April 2021, 13h-14h CET

Read more:



[Webinar] Elicitation and practical use of disability weights for quantifying years lived with disability

Thursday 14 January 2021, 13h-14h CET

Read more:



[Webinar] Quantifying COVID-19 disease burden

Friday 20 November 2020, 11h-12h CET

Read more:

[Webinar] Knowledge translation in burden of disease studies

Wednesday 14 May 2025, 10h-11h30 CET



Capacity building

6 Training Schools completed

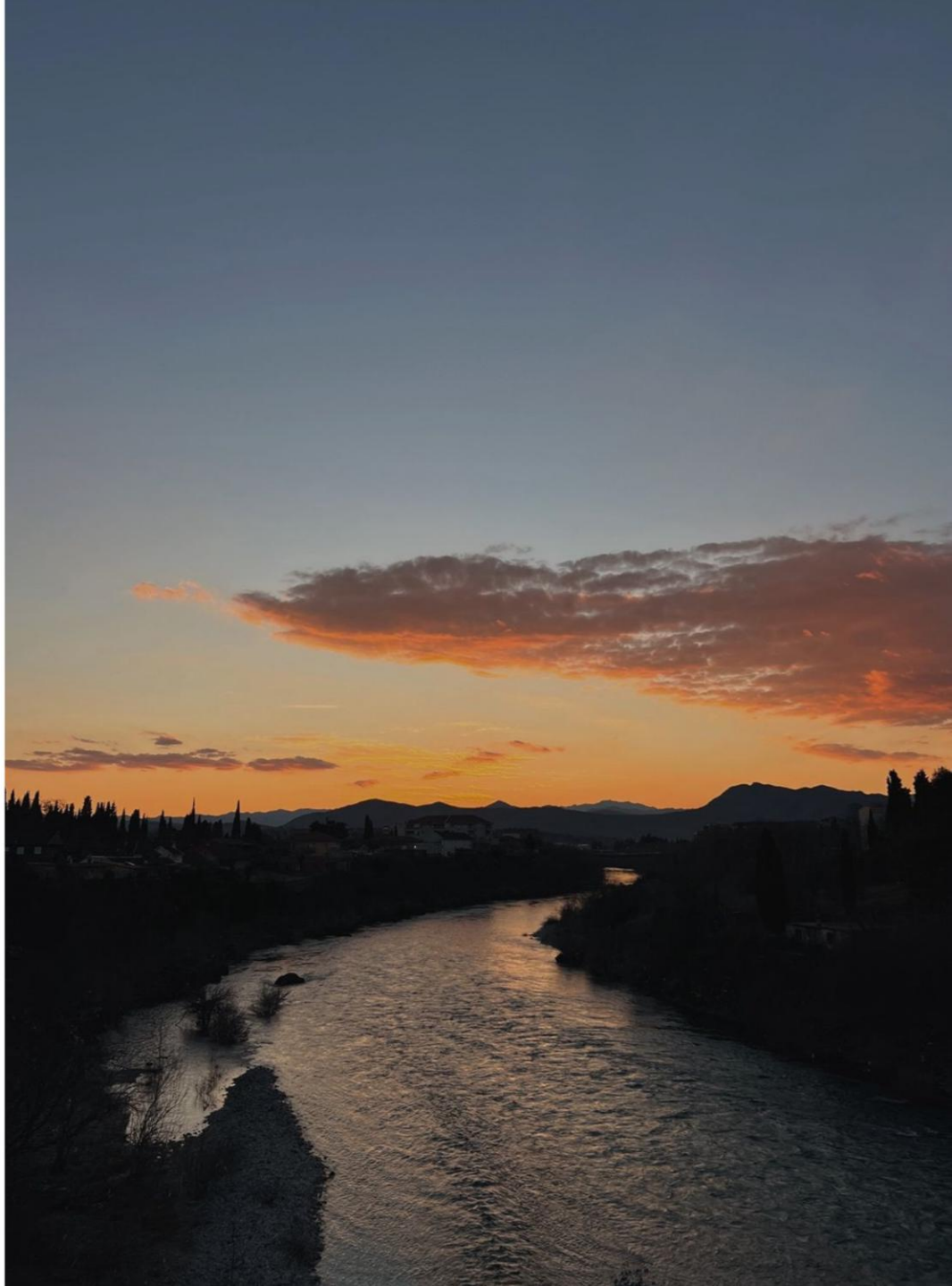
167 Trainees trained

11 Short-term scientific missions

13 Virtual Mobility Grants




U MISLI OČUVANJA I UNAPREĐENJA
ZDRAVLJA STANOVNIŠTVA CRNE GORE





european burden-eu of disease network

Burden of Disease Summer Schools

Ghent, Belgium, August 2024

Register now for one or more of our Burden of Disease Summer Schools

General concepts of burden of disease

Introduction to the calculation and use of DALYs

31 July - 2 August, 2024

Burden of risk factors

Learn how to go from burden to impact

7-9 August, 2024

Burden of infectious diseases

Learn how to calculate DALYs for infectious diseases

21-23 August, 2024

www.burden-eu.net/schools

SUMMER SCHOOL
GENERAL CONCEPTS

2025

european burden-eu of disease network











































SUMMER SCHOOL
RISK FACTORS

2025

european burden-eu of disease network













SUMMER SCHOOL
INFECTIOUS DISEASES

2025

european burden-eu of disease network

























Future of the network
What to continue?

Collaboration



Impact

A vision for the future

- AISBL “European Burden of Disease Network”
- Focus on core activities
  - **Workshops**
  - Summer schools
  - Webinars
  - Task forces
  - Research and agenda setting

- Meet us in Helsinki → www.burden-eu.net/eph2025

1st European Workshop on BOD

	Day 1 Thursday 18/9	Day 2 Friday 19/9
9h00	Registration	Registration
9h30	**National BOD studies** *Moderators: Henk Hilderink, Brecht Devleesschauwer* Current status, new developments, and emerging challenges for selected national burden of disease studies	**Knowledge translation** *Moderators: Aline Anton, Aline Scohy* Inspirational examples of integration of knowledge translation in national burden of disease frameworks
12h30	Lunch	Lunch
13h30	**Technical challenges** *Moderators: Elena von der Lippe, Brecht Devleesschauwer* Discussion of selected technical challenges - Subnational burden estimates - Severity distributions and comorbidity adjustment	**From burden to policy** *Moderator: Vanessa Gorasso* Connecting the burden of disease framework to policy interventions
16h30	Closure	Closure