

SUSTAINING A NETWORK, AN ESSENTIAL PUBLIC HEALTH SKILL EXPERIENCES FROM THE EUROPEAN BURDEN OF DISEASE NETWORK

BAPH Assembly Meeting – 20/01/2023

Brecht.Devleesschauwer@Sciensano.be







COST Action CA18218 **European Burden of Disease Network**





www.burden-eu.net



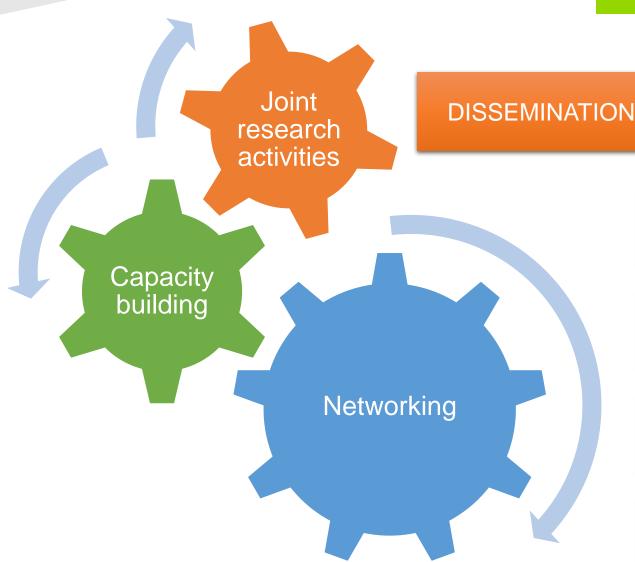


TRAINING SCHOOLS

VIRTUAL MOBILITY GRANTS

SHORT TERM
SCIENTIFIC
MISSIONS

ITC CONFERENCE GRANTS



MC & CORE GROUP MEETINGS

WG MEETINGS

WORKSHOPS & CONFERENCES

TASK FORCE MEETINGS



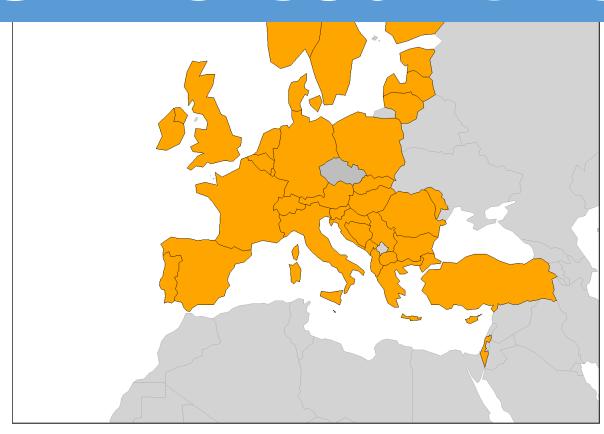
392 members



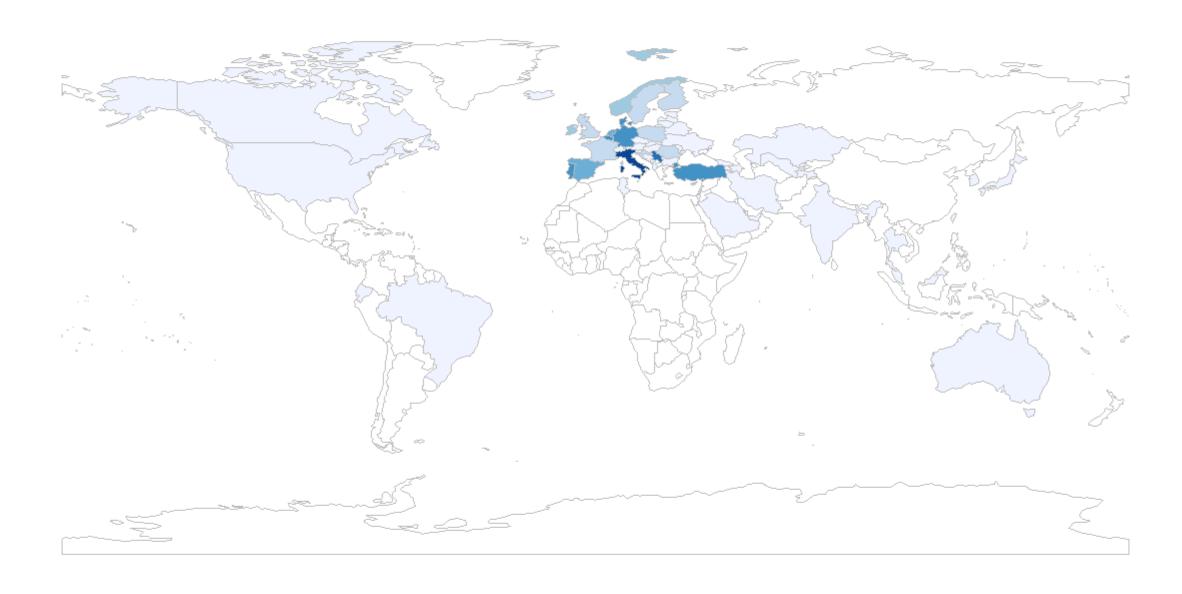
38+20 countries

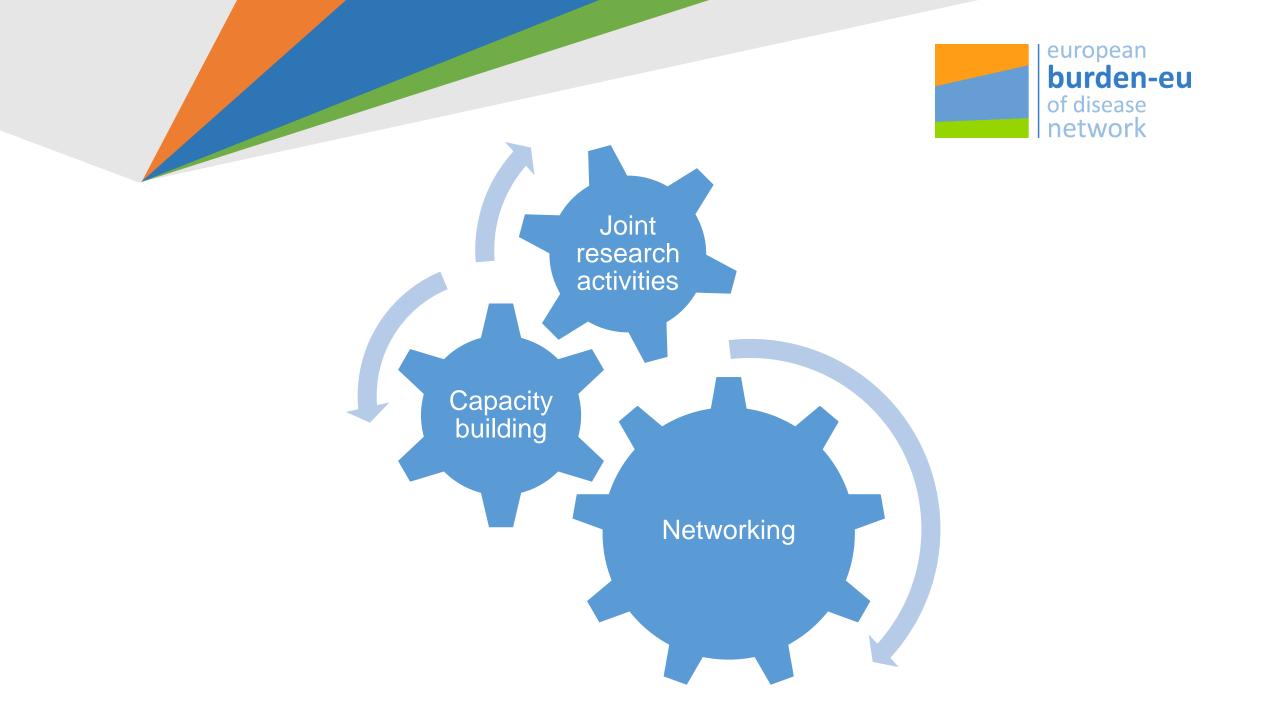




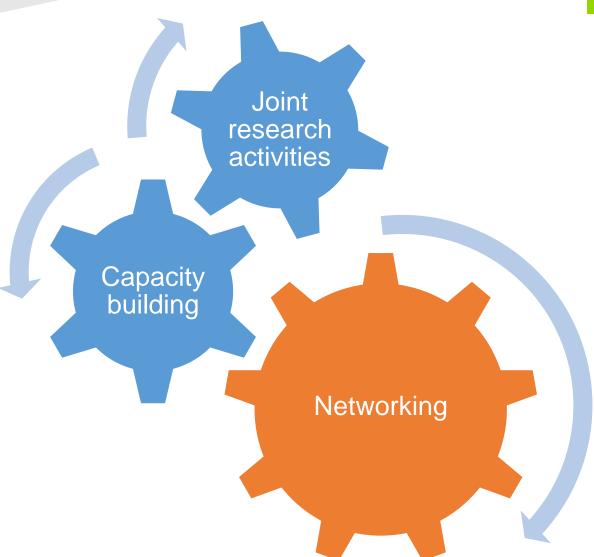


Members by Country









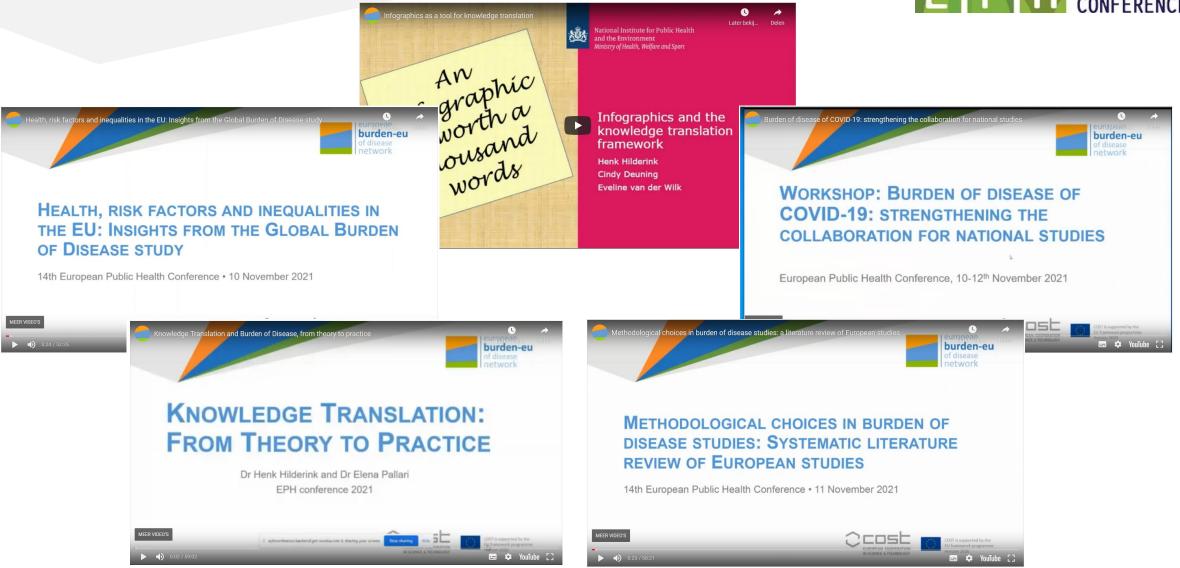


International Burden of Disease Conference 15-16 September 2022, Belgrade, Serbia



https://www.burden-eu.net/eph2021





15th European Public Health Conference 10-12 November 2022, Berlin, Germany



https://www.burden-eu.net/eph2022

https://www.burden-eu.net/news/spotlight

The burden-eu COST Action wants to put its members in the spotlight! Spotlights are short (500-1000 words) blogposts where network members present their work in a personal and vulgarizing way. The spotlights also describe how the presented work benefited from the COST Action.

Do you have a recent publication or new project related to burden of disease? Please let us know via info@burden-eu.net, and we will be happy to put you in the spotlight!

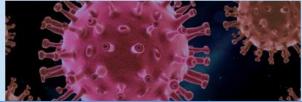
Santé Publique France - National burden of disease study for France



Sarah Cuschieri - Experiences of the network from Malta



Alexander Rommel - BoCO-19: Towards a harmonization of population health metrics for the surveillance of dynamic outbreaks



Aline Anton - Estimating headache prevalence and severity in Germany



Lea Sletting Jakobsen - Impact of dairy consumption in the Danish population



Zubair Kabir - Development of a Global Burden of Disease-Frailty Index



Click here to view our newsletters online

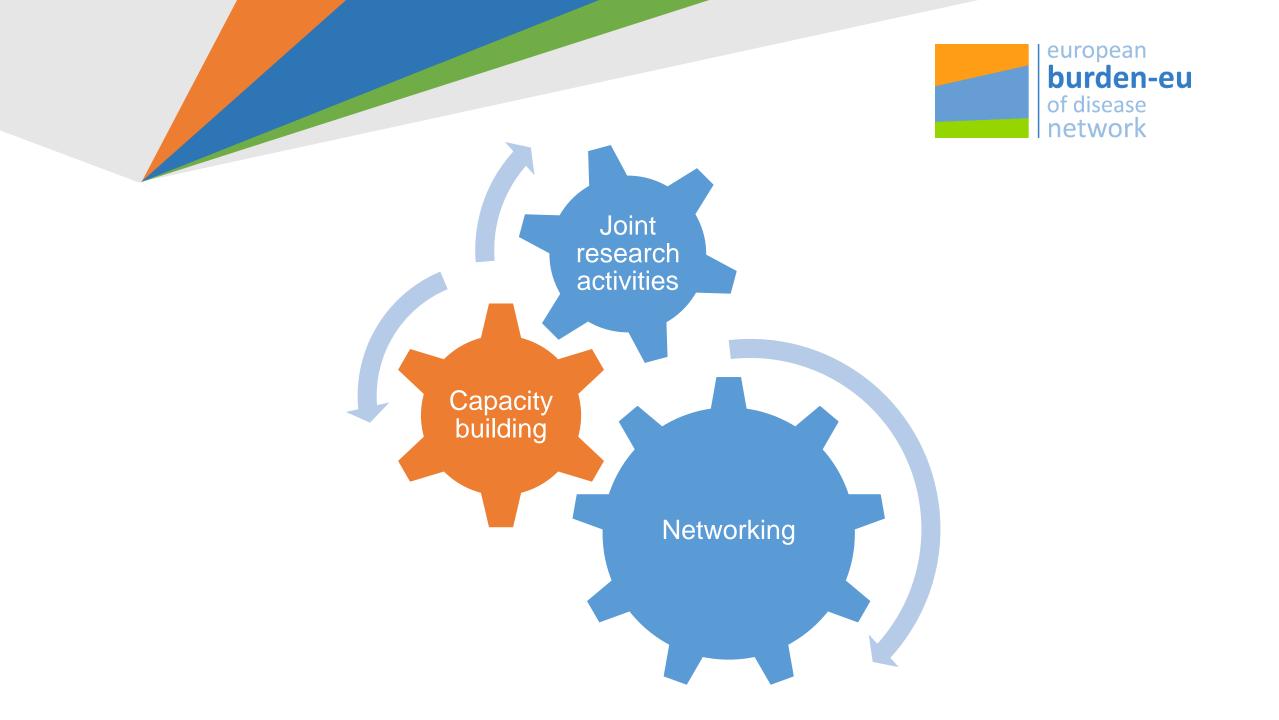






From the whole burden-eu team, we would like to wish you a very happy and healthy 2023!





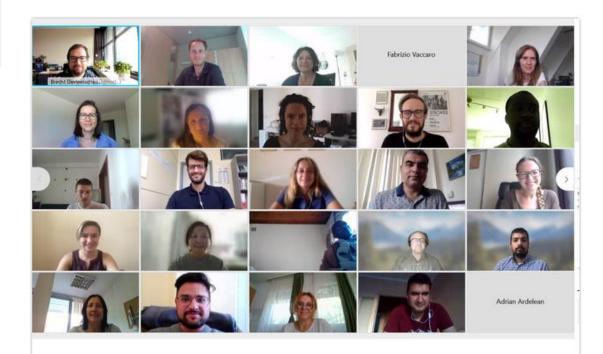
Individual capacity building

Short-term scientific missions

Date	Applicant	Host institution	Title
06/06/2022	José Chen-Xu	National Food Institute, Technical University of Denmark	Burden of lung cancer associated with occupational exposure to hexavalent chromium
24/06/2022	Periklis Charalampous	Robert Koch Institute	Methodological advances in burden of disease studies
24/06/2022	Tina Lesnik	Robert Koch Institute	Methods and concepts of calculating YLLs

Virtual mobility grants

Date	Applicant	Title	
27/10/2021	Grant Wyper	Scientific communication activities of the European Burden of Disease Network	
10/10/2021	João Vasco Santos	Comparison of methods for YLL calculation	
07/10/2021	Periklis Charalampous	Infectious disease burden activities across Europe: a systematic literature review of data sources and methodological choices	
04/10/2021	Elena Pallari	The implementation of a framework on BoD evidence use in practice	

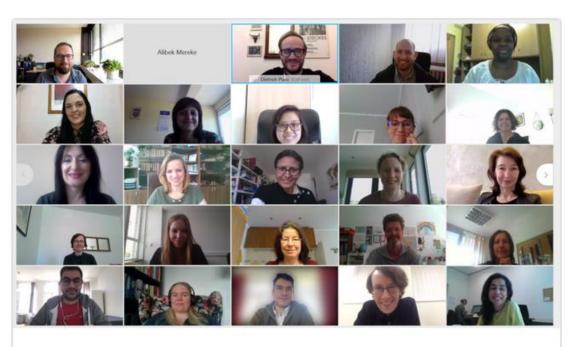


[Training School] General concepts of burden of disease - 2nd edition

Introduction to the calculation and use of DALYs

September 2021

Read more:



[Training School] General concepts of burden of disease - 1st edition

Introduction to the calculation and use of DALYs

May-June 2021

Read more:

COVID-19 Disease Burden Training School 30 March to 1 April 2022, Ljubljana, Slovenia



General concepts of burden of disease - 3rd edition 9-11 May 2022, Tbilisi, Georgia

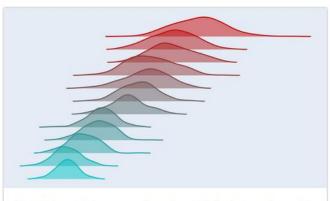




[Webinar] Measuring the burden of rare diseases

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:

Task Forces

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

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 to 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 COVIDALYS. It focuses on the direct health impact of the disease, and describes the data requirements, the methods, and considerations for the last 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 replain 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 disabilityadjusted life years impact on the Malta population for the first full year



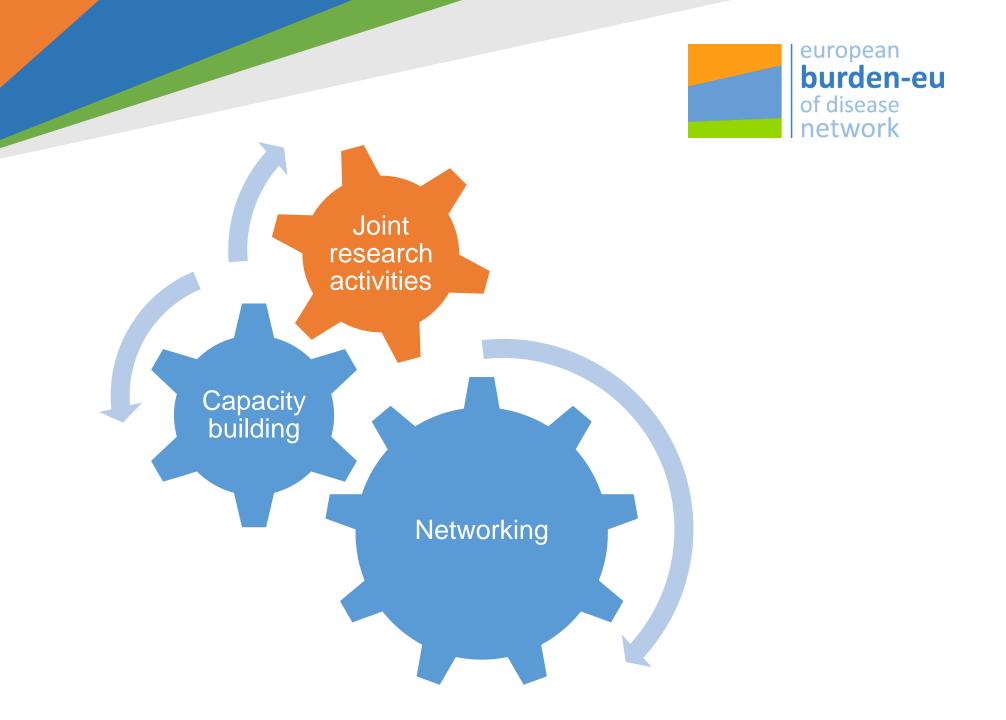
Sarah Cuschieri^{1*}, Neville Calleja^{2,3}, Brecht Devleesschauwer^{4,5} and Grant M. A. Wyper⁶

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

Grant MA Wyper^{1,*}, Eilidh Fletcher², Ian Grant², Gerry McCartney¹, Colin Fischbacher³, Oliver Harding⁴, Hannah Jones¹, Maria Teresa de Haro Moro², Niko Speybroeck⁵, Brecht Devleesschauwer^{6,7}, Diane L Stockton¹

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

Scott A. McDonald¹, Giske R. Lagerweij¹, Pieter de Boer¹, Hester E. de Melker¹, Roan Pijnacker¹, Lapo Mughini Gras¹, Mirjam E. Kretzschmar^{1,2}, Gerco den Hartog¹, Arianne B. van Gageldonk-Lafeber¹, RIVM COVID-19 surveillance and epidemiology team¹, Susan van den Hof¹, Jacco Wallinga^{1,3}



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https://doi.org/10.1093/eurpub/ckab218 Advance Access published on 7 January 2

7 January 2

Charalampous et al. BMC Public Health (2022) 2 https://doi.org/10.1186/s12889-022-13925-z **BMC** Public Health

Burden of non-communicable of Europe: a systematic review of methodological choices

Periklis Charalampous 1, Vanessa Gorasso^{2,3}, Dietric Elena von der Lippe⁶, Alibek Mereke⁷, Jane Idavain⁸, Joana Nazaré Morgado¹⁰, Che Henry Ngwa¹¹, Isabel I María José Santi-Cano¹³, Rodrigo Sarmiento^{12,14}, Brec Juanita A. Haagsma¹, The COST Action CA18218 Parti

+ Infectious diseases

+ Risk Factors

RESEARCH Open Access

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



Periklis Charalampous^{1*}, Elena Pallari², Vanessa Gorasso^{3,4}, Elena von der Lippe⁵, Brecht Devleesschauwer^{4,6}, Sara M. Pires⁷, Dietrich Plass⁸, Jane Idavain⁹, Che Henry Ngwa^{10,11}, Isabel Noguer¹², Alicia Padron-Monedero¹², Rodrigo Sarmiento^{12,13}, Marek Majdan¹⁴, Balázs Ádám^{15,16}, Ala'a AlKerwi¹⁷, Seila Cilovic-Lagarija¹⁸, Benjamin Clarsen^{19,20,21}, Barbara Corso²², Sarah Cuschieri²³, Keren Dopelt^{24,25}, Mary Economou²⁶, Florian Fischer²⁷, Alberto Freitas^{28,29}, Juan Manuel García-González³⁰, Federica Gazzelloni³¹, Artemis Gkitakou³², Hakan Gulmez³³, Paul Hynds³⁴, Gaetano Isola³⁵, Lea S. Jakobsen⁷, Zubair Kabir³⁶, Katarzyna Kissimova-Skarbek³⁷, Ann Kristin Knudsen²⁰, Naime Meriç Konar³⁸, Carina Ladeira^{39,40}, Brian Lassen⁷, Aaron Liew⁴¹, Marjeta Majer⁴², Enkeleint A. Mechili^{43,44}, Alibek Mereke⁴⁵, Lorenzo Monasta⁴⁶, Stefania Mondello⁴⁷, Joana Nazaré Morgado⁴⁸, Evangelia Nena⁴⁹, Edmond S. W. Ng⁵⁰, Vikram Niranjan⁵¹, Iskra Alexandra Nola⁴², Rónán O'Caoimh⁵², Panagiotis Petrou⁵³, Vera Pinheiro²⁸, Miguel Reina Ortiz⁵⁴, Silvia Riva⁵⁵, Hanen Samouda⁵⁶, João Vasco Santos^{28,29,57}, Cornelia Melinda Adi Santoso⁵⁸, Milena Santric Milicevic⁵⁹, Dimitrios Skempes⁶⁰, Ana Catarina Sousa^{61,62}, Niko Speybroeck⁶³, Fimka Tozija^{64,65}, Brigid Unim⁶⁶, Hilal Bektaş Uysal⁶⁷, Fabrizio Giovanni Vaccaro⁶⁸, Orsolya Varga¹⁶, Milena Vasic^{69,70}, Francesco Saverio Violante^{71,72}, Grant M. A. Wyper⁷³, Suzanne Polinder¹ and Juanita A. Haagsma¹

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Burden of disease among trends in mortality and d

Kim Moesgaard Iburg (1) ¹, Periklis Charalan Elsa Jonsson Stenberg³, Rónán O'Caoimh⁴, L David M. Pereira⁷, Grant M.A. Wyper⁸, Vikra Juanita Haagsma²

Open Access

The burden of injury in Central, Eastern, and Western European sub-region: a systematic analysis from the Global Burden of Disease 2019

Juanita A. Haagsma¹, Periklis Charalampous¹, Filippo Ariani², Anne Gallay³, Kim Moesgaard Iburg⁴, Evangelia Nena⁵, Che Henry Ngwa^{6,7}, Alexander Rommel⁸, Ausra Zelviene⁹, Kedir Hussein Abegaz^{10,11}, Hanadi Al Hamad¹², Luciana Albano¹³, Catalina Liliana Andrei¹⁴, Tudorel Andrei¹⁵, Ippazio Cosimo Antonazzo¹⁶, Olatunde Aremu¹⁷, Ashokan Arumugam¹⁸, Alok Atreya¹⁹, Avinash Aujayeb²⁰, Jose Luis Ayuso-Mateos^{21,22}, Luchuo Engelbert Bain^{23,24}, Maciej Banach^{25,26}, Till Winfried Bärnighausen^{27,28}, Francesco Barone-Adesi²⁹, Massimiliano Beghi³⁰, Derrick A. Bennett³¹, Akshaya S. Bhagavathula^{32,33}, Félix Carvalho³⁴, Giulio Castelpietra³⁵, Ledda Caterina³⁶, Joht Singh Chandan³⁷, Rosa A. S. Couto³⁸, Natália Cruz-Martins^{39,40,41}, Giovanni Damiani^{42,43}, Anna Dastiridou⁴⁴, Andreas K. Demetriades⁴⁵, Diana Dias-da-Silva⁴⁶, Adeniyi Francis Fagbamigbe⁴⁷, Seyed-Mohammad Fereshtehnejad^{48,49}, Eduarda Fernandes⁵⁰, Pietro Ferrara ¹⁶, Florian Fischer⁵¹, Urbano Fra. Paleo⁵², Silvia Ghirini⁵³, James C. Glasbey⁵⁴, Ionela-Roxana Glavan¹⁵, Nelson G. M. Gomes^{50,55}, Michal Grivna³², Netanja I. Harlianto⁵⁶, Josep Maria Haro^{57,58}, M. Tasdik Hasan^{59,60}, Sorin Hostiuc^{61,62}, Ivo lavicoli⁶³, Milena D. Ilic⁶⁴, Irena M. Ilic⁶⁵, Mihajlo Jakovljevic^{66,67}, Jost B. Jonas^{68,69}, Jacek Jerzy Jozwiak⁷⁰, Mikk Jürisson⁷¹, Joonas H. Kauppila^{72,73}, Gbenga A. Kayode^{74,75}, Moien A. B. Khan^{76,77}, Adnan Kisa^{78,79}, Sezer Kisa⁸⁰, Ai Koyanagi^{81,82}, Manasi Kumar^{83,84}, Om P. Kurmi^{85,86}, Carlo La-Vecchia⁸⁷, Demetris Lamnisos⁸⁸, Savita Lasrado⁸⁹, Paolo Lauriola⁹⁰, Shai Linn⁹¹, Joana A. Loureiro⁹², Raimundas Lunevicius⁹³, Aurea Madureira-Carvalho^{41,94}, Enkeleint A. Mechill^{95,96}, Azeem Majeed⁹⁷, Ritesh G. Menezes⁹⁸, Alexios-Fotios A. Mentis^{99,100}, Atte Meretoja ^{101,102}, Tomislav Mestrovic ^{103,104}, Tomasz Miazgowski 105, Bartosz Miazgowski 106, Andreea Mirica 15, Mariam Molokhia 107, Shafiu Mohammed 27,108, Lorenzo Monasta¹⁰⁹, Francesk Mulita¹¹⁰, Mukhammad David Naimzada^{111,112}, Ionut Negol^{113,114}, Subas Neupane^{115,116}, Bogdan Oancea¹¹⁷, Hans Orru^{71,118}, Adrian Otoiu¹⁵, Nikita Otstavnov¹¹¹, Stanislav S. Otstavnov¹¹¹, 19 Alicia Padron-Monedero¹²⁰, Songhomitra Panda-Jonas⁶⁸, Shahina Pardhan¹²¹, Jay Patel¹²², Paolo Pedersini¹²³, Marina Pinheiro⁵⁵, Ivo Rakovac¹²⁴, Chythra R. Rao¹²⁵, Salman Rawaf^{97,126}, David Laith Rawaf^{127,128}, Violet Rodrigues¹²⁹, Luca Ronfani¹⁰⁹, Dominic Sagoe¹³⁰, Francesco Sanmarchi³¹, Milena M. Santric-Milicevic^{65,132}, Brijesh Sathian^{12,133}, Aziz Sheikh^{134,135}, Rahman Shiri¹³⁶, Siddharudha Shivalli¹³⁷, Inga Dora Sigfusdottir^{138,139,140}, Rannveig Sigurvinsdottir¹³⁸, Valentin Yurievich Skryabin¹⁴¹, Anna Aleksandrovna Skryabina¹⁴², Catalin-Gabriel Smarandache¹¹³, Bogdan Socea¹¹³, Raúl A. R. C. Sousa¹⁴³, Paschalis Steiropoulos¹⁴⁴, Rafael Tabarés-Seisdedos^{22,145}, Marcos Roberto Tovani-Palone¹⁴⁶, Fimka Tozija¹⁴⁷, Sarah Van de Velde¹⁴⁸, Tommi Juhani Vasankari¹⁴⁹, Massimiliano Veroux¹⁵⁰, Francesco S. Violante Vasiliy Vlassov¹⁵³, Yanzhong Wang¹⁵⁴, Ali Yadollahpour¹⁵⁵, Sanni Yaya^{156,157}, Mikhail Sergeevich Zastrozhin^{158,159}, Anasthasia Zastrozhina¹⁶⁰, Suzanne Polinder¹ and Marek Majdan¹⁶¹



Measuring disability-adjusted life years (DALYs) due to low back pain in Malta

Cuschieri S, Wyper GMA, Calleja N, Gorasso V, Devleesschauwer B

Arch Public Health. 2020;78:68





Haneef R, Schmidt J, Gallay A, Devleesschauwer B, Grant I, Rommel A, Wyper GMA, van Oyen H, Hilderink H, Ziese T. Newton J

Arch Public Health. 2021;79:126



Burden of non-communicable diseases in Cyprus, 1990-2017: findings from the Global Burden of Disease 2017 study

Charalampous P, Pallari E, Tyrovolas S, Middleton N, Economou M, Devleesschauwer B, Haagsma JA

Arch Public Health. 2021;79:138



Population vulnerability to COVID-19 in Europe: a burden of disease analysis

Wyper GM, Assunção RM, Cuschieri S, Devleeschauwer B, Fletcher E, Haagsma JA, Hilderink H, Idavain J, Lesnik T, Von der Lippe E, Majdan M, Santric-Milicevic M, Pallari E, Peñalvo JL, Pires SM, Plass D, Santos JV, Stockton DL, Thomsen ST, Grant I

Arch Public Health. 2020;78:47





Burden of foodborne diseases: think global, act local

Pires SM, Desta BN, Mughini-Gras L, Mmbaga BT, Fayemi OE, Salvador EM, Gobena T, Majowicz SE, Hald TM, Hoejskov PS, Minato Y, Devleesschauwer B

Curr Opin Food Sci. 2021;39:152-159





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

Cuschieri S, Calleja N, Devleesschauwer B, Wyper GMA BMC Public Health. 2021;;21:1827





Health expectancies in the European Union: same concept, different methods, different results

Santos JV, Viana J, Devleesschauwer B, Haagsma J, Costa-Santos C, Ricciardi W, Freitas A

J Epidemiol Community Health. 2021;75:764-771







Santos JV, Gorasso V, Souza J, Wyper GMA, Grant I, Pinheiro V, Viana J, Ricciardi W, Haagsma JA, Devleesschauwer B, Plass D, Freitas A

Eur J Public Health. 2021; in press





Valuing the years of life lost due to COVID-19: the differences and pitfalls.

Devleesschauwer B, McDonald S, Speybroeck N, Wyper **GMA**

Int J Public Health. 2020;65:719-720





Reflections on key methodological decisions in national burden of disease assessments

von der Lippe E, Devleesschauwer B, Gourley M, Haagsma J, Hilderink H, Porst M, Wengler A, Wyper G, Grant I

Arch Public Health. 2020;78:137



The increasing significance of disease severity in a burden of disease framework

Wyper G, Assunçao R, Fletcher E, Gourley M, Grant I, Haagsma J, Hilderink H, Idavain J, Lesnik T, von der Lippe E, Majdan M, McCartney G, Pallari E, Pires S, Plass D, Porst M, Santos J, Santric-Milicevic M, de Haro Moro MT, Stockton D, Devleesschauwer B

Scand J Public Health. 2021; in press



Burden of disease methods: a guide to calculate COVID-19 disability-adjusted life years

Wyper GMA, Assunçao RMA, Colzani E, Grant I, Haagsma JA, Lagerweij G, Von der Lippe E, McDonald SA, Pires SM, Porst M, Speybroeck N, Devleesschauwer B

Int J Public Health. 2021;66:619011



Conducting national burden of disease studies in small countries in Europe- a feasible challenge?

Cuschieri S, Pallari E, Terzic N, Alkerwi A, Sigurvinsdottir R, Sigfusdottir ID, Devleesschauwer B

Arch Public Health. 2021;79:73





European burden of disease network: strengthening the collaboration

Devleesschauwer B

Eur J Public Health. 2020;30:2-3





Take home messages

- Networking is key
 - Face to face >>> Online
- COVID forced us to develop new networking tools
 - Webinars
 - Spotlight
 - Task forces
 - (Online meetings, training?!)
- Setup of meetings, webinars, etc.. requires few but very motivated people



COST Action CA18218 European Burden of Disease Network





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