Brecht Devleesschauwer (°09/09/1986)

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1 Research interests

- Epidemiology, burden of disease, health impact assessment, risk assessment;
- Bayesian data analysis, true prevalence estimation, disease transmission modeling;
- Zoonotic diseases, food safety, veterinary public health.

2 Employment

- **Visiting professor, risk analysis**, 04/2018–present
  Ghent University, Merelbeke, Belgium
- **Senior epidemiologist**, 04/2016–present
  Sciensano, Brussels, Belgium
- **Visiting professor, advanced epidemiology**, 10/2018–09/2019
  Université catholique de Louvain, Brussels, Belgium
- **Visiting professor, health economic evaluations**, 10/2016–09/2018
  Université catholique de Louvain, Brussels, Belgium
- **Assistant scientist, global food safety and zoonoses**, 06/2015–03/2016
  University of Florida, Gainesville, USA
- **Post-doctoral researcher**, 04/2015
  Ghent University, Merelbeke, Belgium
- **Contracted technical expert**, 09/2013–12/2013, 02/2014–03/2014
  World Health Organization, Geneva, Switzerland
- **Doctoral researcher**, 10/2010–03/2015
  Ghent University, Merelbeke, Belgium
  Université catholique de Louvain, Brussels, Belgium

3 Education

3.1 Academic titles

- **Ph.D. Veterinary Sciences & Ph.D. Public Health**, 2010–2015
  Ghent University, Merelbeke, Belgium
  Université catholique de Louvain, Brussels, Belgium
  Dissertation topic: "*The Burden of Zoonoses in Nepal*"
  Promoters: Prof. Dr. P. Dorny, Prof. Dr. N. Speybroeck, Prof. Dr. L. Duchateau
- **Doctoral Training Programme**, 2010–2015
  Doctoral School of Life Sciences and Medicine, Ghent University, Belgium
- **M.Sc. Statistics (biometrics)**, 2011–2014
  Katholieke Universiteit Leuven, Louvain, Belgium; Great distinction
  Dissertation topic: "*Quantitative Microbial Risk Assessment with R*"
  Promoters: Prof. Dr. G. Molenberghs, Prof. Dr. C. Faes
- **M.Sc. Veterinary Medicine (research & industry)**, 2007–2010
  Ghent University, Merelbeke, Belgium; Greatest distinction
  Dissertation topic: "*The Epidemiology of Taenia solium in Nepal*"
  Promoter: Prof. Dr. P. Dorny
- **B.Sc. Veterinary Medicine**, 2004–2007
  Ghent University, Merelbeke, Belgium; Greatest distinction

3.2 Short courses

- **Introductory teacher training**, Ghent University, 2019
- **Speaking in Public - With Exercises from the Theater**, Klein Barnum, 2019
- **Introduction to the Statistical Program to Assess Dietary Exposure (SPADE)**, RIVM, 2018
- **Workshop Evaluation Interviews**, WIV-ISP, 2017
- **SAS Basics**, BI Knowledge Sharing, 2016
- **GBD Technical Training Workshop**, IHME (University of Washington), 2014
- **Advanced Academic English Conference Skills**, UCT (Ghent University), 2013
- **Introduction to Health Economics, Francqui Chair Pr. Annemans**, Université catholique de Louvain, 2013
- **Introduction to Infectious Disease Modelling and Its Applications**, LSHTM, 2013

- **Modelling Infectious Diseases and Health Economic Evaluation of Vaccines**, Antwerp University, 2013
- **Writing for Non-Specialists and Press**, UCT (Ghent University), 2013
- **Analyses and Graphics with RExcel**, Université catholique de Louvain, 2012
- **Getting Started with High Performance Computing**, Ghent University, 2012
- **Mathematical and Epidemiological Modeling of Endemic Infectious Disease**, Cornell University, 2012
- **Workshop Impact and Research Communication Skills**, Ghent University, 2012
- **Basic Course on Veterinary Epidemiology**, Ghent University, 2011

4 Professional experiences

4.1 Contributions to peer review

- **Guest Editor**, 2019–present
  Archives of Public Health: burden of disease article collection
- **Academic Editor**, 2017–present
  Food and Waterborne Parasitology
- **Academic Editor**, 2017–present
  PLOS ONE
- **Associate Editor**, 2017–2019
  BMC Veterinary Research, Parasitology section
- **Reviewer for international scientific journals**, e.g.:
  Acta Tropica, Advances in Parasitology, Archives of Public Health, BMC Infectious Diseases, BMJ Case Reports, Bulletin of the World Health Organization, Epidemiology and Infection, Health Affairs, Parasites & Vectors, Parasitology International, PLOS Neglected Tropical Diseases, PLOS ONE, Risk Analysis, The Lancet, Transactions of the Royal Society of Tropical Medicine & Hygiene, Vector-Borne and Zoonotic Diseases

4.2 Participation in national projects

- **HELICON – Unravelling the long-term and indirect health impact of the coronavirus crisis in Belgium**, 2020–2025
  HELICON is a BELSPO BRAIN-be project that aims to unravel the social inequalities and the long-term and indirect health effects of the COVID-19 crisis in Belgium.

- **AHEAD – Towards the development of a national health data platform**, 2020–2023
  AHEAD is a BELSPO BRAIN-be project that aims to increase the visibility of the Belgian health information landscape, and explore the technical, ethical and legal bottlenecks towards a more integrated national health information system.

- **ELLIS – Monitoring and mitigating environmental health inequalities in Belgium**, 2019–2023
  ELLIS is a BELSPO BRAIN-be project that aims to develop policy-relevant tools to monitor and mitigate environmental health inequalities in Belgium.

- **WaIST – Contribution of excessive weight status to the social impact of non-communicable diseases, multimorbidity and disability in Belgium: past, present, and future**, 2019–2023
  Proactive policy support for the further development and implementation of evidence-based health policies for the prevention of excessive weight gain.

- **Diagnosis-based morbidity statistics – Pilot data collection**, 2018–2019
  The overall objective of this Eurostat-funded project is to obtain nationally representative, comparable diagnosis-based morbidity data proceeding from the 2018 Shortlist of Morbidity Indicators developed by Eurostat.

- **Belgian Health Status Report**, 2017–present
  The Belgian Health Status Report addresses the lack of an integrated view on the health status of the Belgian population. It provides health status information relevant for decision-makers, with focus on information useful for defining and/or evaluating health objectives.

- **Belgian National Burden of Disease Study**, 2016–present
  The Belgian National Burden of Disease Study (BeBOD) aims to establish a coherent framework for routinely quantifying the burden of disease in Belgium using the DALY metric. The project supports capacity building, ensuring ownership and sustainability.

- **Belgian contribution to the WHO/EURO Health for All Database**, 2016–present
  The HFA database is one of WHO's oldest sources of data. The indicators cover basic demographics, health status, health determinants and risk factors, as well as health care resources, expenditures and more. Each year, Belgium is requested to update the information in the HFA database.

- **Belgian Health System Performance Assessment**, 2016–2019
  The HSPA project is a collaboration between Sciensano, KCE, RIZIV-INAMI and

FPS Public Health. The report highlights strenghts and weaknesses of the Belgian health system, through a dashboard of 121 indicators, divided over 5 transversal dimensions and 5 specific themes.

4.3 Participation in international projects

- **Computational Task Force Chair**, 2021–2025
  Impact Measurement Task Force member, 2021–2025
  Foodborne Disease Burden Epidemiology Reference Group, WHO

- **WP Member**, 2021–present
  WP4 Data analysis, Unravelling Data for Rapid Evidence-Based Response to COVID-19—www.uncover-eu.net

- **WP member**, 2021–present
  WP5 Research methodologies to assess the impact of COVID-19, The Population Health Information Research Infrastructure—www.phiri.eu

- **Human Health Theme co-lead**, 2021–present
  Global Burden of Animal Diseases programme—www.animalhealthmetrics.org

- **Main Action Proposer and Chair**, 2019–present
  COST Action CA18218 "European Burden of Disease Network"—www.burden-eu.net

- **Country representative**, 2017–present
  EUROSTAT Technical Group on Morbidity Statistics

- **Country representative**, 2016–present
  European Burden of Disease Network (WHO/EURO, IHME)

- **Epidemiology workgroup leader**, 2013–2018
  COST Action TD1302 CYSTINET—www.cystinet.org

- **Risk forecasting workgroup vice-leader**, 2015–2016
  COST Action FA1408 EURO-FBP

- **Computational Task Force member**, 2011–2015
  Country Studies Task Force member, 2011–2015
  Foodborne Disease Burden Epidemiology Reference Group, WHO

4.4 Participation in international development projects

- **USAID Feed the Future Innovation Lab on Livestock Systems**, 2015–2016
  Project granted to UF, aiming to improve livestock systems in Mali, Burkina Faso, Ethiopia, Rwanda, Nepal and Cambodia

  - Contribution to project proposal
  - Participation in "Livestock Disease Management and Food Safety" AOI

- **VLIR-UOS Institutional University Cooperation with Jimma University, Ethiopia**, 2012–2015
  Collaboration between Jimma University and different Flemish universities to strenghten institutional capacity
  - Organisation of a workshop on design of experiments
  - Supervision of Master students

- **Doctoral research in Nepal**, 2010–2015
  Collection and analysis of data on the burden of zoonotic and foodborne diseases, during a 6 months' stay

- **Impact assessment and control of cysticercosis in the Indian Subcontinent**, 2007–2009
  VLIR-UOS collaboration between Institute of Tropical Medicine (Antwerp, Belgium) and National Zoonoses and Food Hygiene Research Centre (Kathmandu, Nepal)
  - Field work, lab work, data analysis

4.5 Contributions as invited expert

- EFSA working group on foodborne parasites. European Food Safety Authority, Parma, Italy; 2017–2018.

- Steering committee of KCE project 292, Exploratory steps for the formulation of Belgian health system targets. Belgian Health Care Knowledge Centre, Brussels, Belgium; 2017.

- FAO/WHO expert meeting on verotoxigenic *Escherichia coli* (VTEC) / Shigatoxigenic *E. coli* (STEC). World Health Organization, Geneva, Switzerland; 2016–2017.

- Expert consultation on diet-related health problems to support the development of food-based dietary guidelines. Superior Health Council, Brussels, Belgium; 2016–2017.

- Expert panel on FDA-iRisk DALY templates. Research Triangle International, NC, USA; 2016.

- Expert consultation to discuss preliminary results of the joint WHO/IHME analysis of causes of death among children aged 5–14 years in the WHO European Region. WHO Regional Office for Europe, Copenhagen, Denmark; 2015.

- Trend analysis applied to parameter/matrix combinations from the the control plan. Federal Agency for the Safety of the Food Chain, Brussels, Belgium; 2014.
- FAO/WHO expert meeting on risk-based examples for control of *Trichinella* spp. and *Taenia saginata* in meat. World Health Organization, Geneva, Switzerland; 2013–2014.

4.6 Institutional responsibilities

- **Coordinator**, 2021–present
  Sciensano R Introduction Course
- **Founder**, 2018–present
  Sciensano R User Group
- **Member**, 2017–present
  Sciensano Redactional Council
- **Project leader**, 2017–2019
  Sciesano Translational Research Working Group

5 Skills

5.1 Languages

- **Dutch** speaking+++ reading+++ writing+++
- **English** speaking+++ reading+++ writing+++
- **French** speaking+++ reading+++ writing++
- **German** speaking+ reading++ writing+
- **Nepali** speaking+ reading+ writing+

5.2 Computer skills

- **Statistical software**: R, JAGS, WinBUGS, OpenBUGS, SAS, Stata
- **Advanced R skills**: package development, Tcl/Tk interfaces, Shiny applications
- **Design and programming**: html, javascript, php, mysql, LaTeX, markdown, C++
- **Windows and MS Office**: Word, Excel, Powerpoint, Access

6 Teaching

6.1 Courses

- **Advanced epidemiology**
  WFSP2238, Université catholique de Louvain, 2018–present
- **Health economic evaluations**
  WFSP2103, Université catholique de Louvain, 2016–2018
- **Quantitative microbial risk assessment of pathogens in food systems**
  ANS 6932 / FOS 6936, University of Florida, February 26–March 4, 2016

6.2 Workshops

- **General Concepts of Burden of Disease**, 28 May–11 June 2021
  European Burden of Disease Network—www.burden-eu.net/training
- **R Introduction Course, 1st edition**, 19–30 April 2021
  Sciensano, Brussels, Belgium
- **Burden of Disease and the DALY metric, 2nd edition**, 11–12 October 2017
  WIV-ISP, Brussels, Belgium
- **Burden of Disease and the DALY metric, 1st edition**, 5–6 October 2016
  WIV-ISP, Brussels, Belgium
- **CYSTINET Epidemiology Training School**, 1–3 September 2014
  Institute of Tropical Medicine, Antwerp, Belgium
  Contents: introduction to R, systematic review and meta-analysis, GIS
- **National Workshop on Design of Experiments for Statisticians and Practitioners**, 28–29 March 2013
  Jimma University, Jimma, Ethiopia
  Partims: introduction to R, analysis of variance

6.3 Lectures

- **Topics in tropical veterinary medicine**, 2013–2016
  MSc Veterinary Medicine, Ghent University
- **Food safety: an introduction**, 2015
  Environmental Health Concepts in Public Health, PHC 6313, University of Florida
- **Concepts of health economics**, 2013–2014
  MSc Public Health, Université catholique de Louvain
- **Burden of disease and the Disability-Adjusted Life Year**, 2013–2015
  MSc Public Health, Université catholique de Louvain

MSc Health and Development, Université catholique de Louvain
MSc Occupational Medicine, Université catholique de Louvain
BSc Biomedical Sciences, Université catholique de Louvain

- **Diagnostic test characteristics and true prevalence**, 2013–2014
  MSc Public Health, Université catholique de Louvain
  MSc Health and Development, Université catholique de Louvain

6.4 Practicals

- **Biomedical statistics**, 2012–2014
  BSc Veterinary Medicine, Ghent University
- **Applied biomedical statistics**, 2013–2014
  MSc Veterinary Medicine, Ghent University

6.5 PhD students (6)

- **Martina Otavova**, 2020–2024
  PhD Social Sciences (demography), Université catholique de Louvain
  Development and application of a Belgian Index of Multiple Deprivation
  Promoters: Bruno Masquelier, **Brecht Devleesschauwer**
- **Vanessa Gorasso**, 2020–2024
  PhD Public Health, Ghent University
  Health impact assesssment of excess weight status prevention policies
  Promoters: Delphine De Smedt, **Brecht Devleesschauwer**
- **Margot Cooreman-Algoed**, 2018–2024
  PhD Bioscience Engineering, Ghent University
  Integrating environmental and nutritional aspects of diets
  Promoters: Jo Dewulf, Carl Lachat, **Brecht Devleesschauwer**
- **Lisa Van Wilder**, 2018–2022
  PhD Public Health, Ghent University
  Quality of life in patients with chronic disease
  Promoters: Delphine De Smedt; Els Clays, **Brecht Devleesschauwer**
- **Frederik Engelen**, 2018–2021
  PhD Veterinary Sciences, Ghent University
  Shiga toxin-producing Escherichia coli: A dangerous gut feeling
  Promoters: Eric Cox, Lieven De Zutter, Jacques Mainil, **Brecht Devleesschauwer**
- **Sofie Theresa Thomsen**, 2016–2019
  PhD Nutrition, National Food Institute, Danish Technical University
  Risk-benefit assessment of food substitutions

Promoters: Rikke Andersen; Sara Monteiro Pires, Morten Poulsen, **Brecht Devleesschauwer**

6.6 MSc students (46)

Past 5 years shown only — for a complete list, please visit https://brecht.cbra.be

- Eva De Meulemeester (2021) The burden of neuromuscular disorders in Belgium: a registry-based study. MSc Health Care Management and Policy, Ghent University. Promoters: **Devleesschauwer B**, Cosyns M.
- Melanie Sioen (2021) The disease burden of injuries in Belgium. MSc Health Care Management and Policy, Ghent University. Promoter: **Devleesschauwer B**.
- Wendy Verlinde (2021) Drug-related mortality in Belgium, 2002-2016. MSc Health Care Management and Policy, Ghent University. Promoter: **Devleesschauwer B**.
- Joren Verbeke (2021) Sample size calculation for animal trials based on data from virulence tests. MSc Statistical Data Analysis, Ghent University. Promoters: De Neve J, **Devleesschauwer B**.
- Manu Claessens (2021) Past, present and future trends of obesity in Belgium: an age-period-cohort modeling study. MSc Statistical Data Analysis, Ghent University. Promoters: **Devleesschauwer B**, Vansteelandt S.
- Polina Putrik (2021) Spatial distribution of smoking attributable mortality in Belgium. MSc Statistics, Hasselt University. Promoters: **Devleesschauwer B**, Faes C.
- Léonore Nasiadka (2021) The health and economic impact of lower respiratory infections and influenza in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: **Devleesschauwer B**, Speybroeck N.
- Emilie Lemaire (2020) The health and economic burden of lupus in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B**.
- Gil Derycke (2020) Causes of death in Belgium, 2020-2050. MSc Statistical Data Analysis, Ghent University. Promoter: **Devleesschauwer B**.
- Kristiaan Proesmans (2020) Trends and impacts of obesity in Belgium, 2020-2050: an agent-based microsimulation model. MSc Statistical Data Analysis, Ghent University. Promoter: **Devleesschauwer B**.
- Stacey Wilmaer (2020) The disease burden of Alzheimer's disease in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: **Devleesschauwer B**, Speybroeck N.

- Delphine Losseau (2019) The health and ecomonic impact of low back and neck pain in Belgium. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Ellen De Ren (2019) Comparative risk assessment of alcohol use in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: De Smedt D, **Devleesschauwer B**.
- Jinane Ghattas (2019) The state of health in Belgium, 1990–2017: A benchmarking analysis based on the Global Burden of Disease 2017 study. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Judith Ngoufo (2019) The burden of coronary heart disease in Belgium. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Korneel Van Den Driessche (2019) The disease burden of vaccine-preventable diseases in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: **Devleesschauwer B**, De Smedt D.
- Leen Van Doorslaer (2019) Comparative risk assessment of tobacco use in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: De Smedt D, **Devleesschauwer B**.
- Luna Gongal (2019) Knowledge, attitudes and practices on rabies in Nepal. MSc Tropical Animal Health, Institute of Tropical Medicine. Promoters: Dorny P, **Devleesschauwer B**.
- Marie Denis (2019) Comparative risk assessment of dietary risk factors in Belgium. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Senne Terryn (2019) The disease burden of sexually transmitted infections in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: **Devleesschauwer B**, De Smedt D.
- Silke Thomas, Stephanie Marinus (2019) Health impact assessment of sugar reduction in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: De Smedt D, **Devleesschauwer B**.
- Aline Scohy (2018) The impact of chronic diseases on quality of life. MSc Demography, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Astrid Cornez (2018) The disease burden of cancer in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B**.
- Martina Otavova (2018) Impact of tobacco control interventions on health expectancies: use of dynamic modelling for health impact assessment in Belgium. MSc Statistics, Hasselt University. Promoters: Molenberghs G, **Devleesschauwer B**.

- Orchina Hanna (2018) Relations entre dénutrition et dépendances fonctionnelles chez les résidents d'une maison de repos et de soins. MSc Public Health, Université catholique de Louvain. Promoters: Boland B, **Devleesschauwer B**.
- Steff De Smet (2018) The disease burden of cystic fibrosis in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: De Smedt D, **Devleesschauwer B**.
- Thomas Pelseneer (2018) Self-reported morbidity and health-related quality of life in injecting drug users in Brussels, Belgium. MSc Public Health, Université catholique de Louvain. Promoters: Nicaise P, **Devleesschauwer B**.
- Angela Vega Rodriguez (2017) The burden of diabetes in Belgium and Spain. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B**.
- Damien Blondeau (2017) The disease burden of Yersinia enterocolitica in Belgium. MSc Veterinary Medicine, Ghent University. Promoters: Houf K, **Devleesschauwer B**.
- Jade Vincent Membrebe (2017) Development of an incidence-prevalence-mortality model. MSc Statistics, Hasselt University. Promoters: Shkedy Z, **Devleesschauwer B**.

6.7 PhD examination committees (4)

- **Lea Sletting Jakobsen**, November 2017
  PhD Nutrition, National Food Institute, Danish Technical University
  Method development in the study of burden of disease of foodborne chemicals
  Promoters: Morten Poulsen; Sara Monteiro Pires, Maarten Nauta
- **Malgorzata Jennes**, October 2017
  PhD Veterinary Sciences, Ghent University
  Novel insights in the host-pathogen interaction of porcine toxoplasmosis
  Promoters: Eric Cox; Pierre Dorny, Stéphane De Craeye
- **Elvire Mfueni Bikundi**, June 2016
  PhD Public Health, Université catholique de Louvain
  Mieux comprendre les relations entre les déterminants socioéconomiques, la couverture en moustiquaires et la prévalence du paludisme chez les enfants en R.D Congo et en Afrique
  Promoters: Niko Speybroeck; Robert Snow
- **Marco Coral Almeida**, February 2016
  PhD Veterinary Sciences, Ghent University
  Epidemiological transmission patterns of *Taenia solium* cysticercosis in endemic areas: The case of Ecuador

Promoters: Pierre Dorny; Sarah Gabriël, Emmanuel Nji Abatih, Washington Benitez

7 Scientific output

7.1 Book chapters

[8] Pires SM, **Devleesschauwer B** (2021) Estimates of global disease burden associated with foodborne pathogens. In: Morris JGJ, Vugia D (eds) *Foodborne Infections and Intoxications, 5th ed.*, pp 3-17. doi: 10.1016/B978-0-12-819519-2.00020-7

[7] **Devleesschauwer B**, Pires SM, Kowalcyk BB, Scharff RL, Havelaar AH, Speybroeck N (2021) Risk Metrics: Quantifying the Impact of Adverse Health Effects. In: Pérez-Rodríguez F (ed) *Risk Assessment Methods for Biological and Chemical Hazards in Food*, pp 47-78. doi: 10.1201/9780429083525-4

[6] **Devleesschauwer B**, Scharff RL, Kowalcyk BB, Havelaar AH (2018) Burden and Risk Assessment of Foodborne Disease. In: Roberts T (ed) *Food Safety Economics: Incentives for a Safer Food Supply*, pp 83-106. doi: 10.1007/978-3-319-92138-9$_6$

[5] Kowalcyk BB, Pires SM, Scallan E, Lamichhane A, Havelaar AH, **Devleesschauwer B** (2018) Improving Burden of Disease and Source Attribution Estimates. In: Roberts T (ed) *Food Safety Economics: Incentives for a Safer Food Supply*, pp 143-174. doi: 10.1007/978-3-319-92138-9$_9$

[4] **Devleesschauwer B**, Haagsma JA, Mangen M-JM, Lake RJ, Havelaar AH (2018) The Global Burden of Foodborne Disease. In: Roberts T (ed) *Food Safety Economics: Incentives for a Safer Food Supply*, pp 107-122. doi: 10.1007/978-3-319-92138-9$_7$

[3] **Devleesschauwer B**, Dorny P, Faes C, Havelaar AH, Torgerson PR, Speybroeck N (2018) Burden and Risk Assessment of Foodborne Parasites. In: Ortega Y, Sterling C (eds) *Foodborne Parasites, 2nd ed.*, pp 341-365. doi: 10.1007/978-3-319-67664-7$_1$5

[2] **Devleesschauwer B**, Bouwknegt M, Mangen M-JJ, Havelaar AH (2017) Health and Economic Burden of Campylobacter. In: Klein G (ed) *Campylobacter: Features, Detection, and Prevention of Foodborne Disease*, pp 27-40. doi: 10.1016/B978-0-12-803623-5.00002-2

[1] Levecke B, Anderson RM, Berkvens D, Charlier J, **Devleesschauwer B**, Speybroeck N, Vercruysse J, Van Aelst S (2015) Mathematical inference on helminth egg counts in stool and its applications in mass drug administration programmes to control soil-transmitted helminthiasis in public health. In: Anderson RM, Basáñez MG (eds) *Advances in Parasitology, Volume 87, Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part A*, pp 193-247. doi: 10.1016/bs.apar.2015.01.001

7.2 Peer-reviewed papers

Google Scholar metrics: 9399 citations · h-index 37 · i10-index 117

[173] Molenberghs G, Faes C, Aerts J, Theeten H, **Devleesschauwer B**, Bustos Sierra N, Braeye T, Renard F, Herzog S, Lusyne P, Van der Heyden J, Van Oyen H, Van Damme P, Hens N (2021) Belgian COVID-19 mortality, excess deaths, number of deaths per million, and infection fatality rates (8 March – 9 May 2020). *Euro Surveill*, in press

[172] Renard F, Scohy A, Van der Heyden J, Peeters I, Dequeker S, Vandael E, Van Goethem N, Dubourg D, De Viron L, Kongs A, Hammami N, **Devleesschauwer B**, Sasse A, Rebolledo Gonzalez J, Bustos Sierra N (2021) Setting up an ad hoc COVID-19 mortality surveillance in Belgium during the first wave of the epidemic, March 1st - June 21st 2020. *Euro Surveill*, in press

[171] Van Wilder L, **Devleesschauwer B**, Clays E, De Buyser S, Van der Heyden J, Charafeddine R, Boeckxstaens P, De Bacquer D, Vandepitte S, De Smedt D (2021) The impact of multimorbidity patterns on health-related quality of life in the general population: results of the Belgian Health Interview Survey. *Qual Life Res*, in press. doi: 10.1007/s11136-021-02951-w

[170] Santos JV, Gorasso V, Souza J, Wyper GMA, Grant I, Pinheiro V, Viana J, Ricciardi W, Haagsma JA, **Devleesschauwer B**, Plass D, Freitas A (2021) Risk factors and their contribution to population health in the European Union (EU-28) countries in 2007 and 2017. *Eur J Public Health*, in press. doi: 10.1093/eurpub/ckab145

[169] Van Wilder L, Charafeddine R, Beutels P, Bruyndonckx R, Cleemput I, Demarest S, De Smedt D, Hens N, Scohy A, Speybroeck N, Van der Heyden J, Yokota RTC, Van Oyen H, Bilcke J, **Devleesschauwer B** (2021) Belgian population norms for the EQ-5D-5L, 2018. *Qual Life Res*, in press. doi: 10.1007/s11136-021-02971-6

[168] 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** (2021) The increasing significance of disease severity. *Scand J Public Health*, in press. doi: 10.1177/14034948211024478

[167] Van der Heyden J, Berete F, Renard F, Vanoverloop J, **Devleesschauwer B**, De Ridder K, Bruyère O (2021) Assessing polypharmacy in the older population: comparison of a self-reported and prescription based method. *Pharmacoepidemiol Drug Saf*, in press. doi: 10.1002/pds.5321

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7.3 Submitted manuscripts

[14] Janssens H, Heytens S, Meyers E, Deschepper E, De Sutter A, **Devleesschauwer B**, Formukong A, Keirse S, Padalko E, Geens T, Cools P. SARS-CoV-2 seroprevalence in staff and residents from nursing homes in Flanders, Belgium. *Infection*

[13] Geebelen L, Lernout T, **Devleesschauwer B**, Kabamba-Mukadi B, Saegeman V, De Munter P, Dubois B, Westhoven R, Humtick hospital group, Van Oyen H, Speybroeck N, Tersago K. Non-specific symptoms and post-treatment Lyme disease syndrome in patients with Lyme borreliosis: a prospective cohort study in Belgium (2016-2020). *BMC Infect Dis*

[12] Gorasso V, Moyersoen I, Van der Heyden J, De Ridder K, Vandevijvere S, Vansteelandt S, De Smedt D, **Devleesschauwer B**. Health care costs and lost productivity costs related to excess weight in Belgium. *BMC Public Health*

[11] Singh BB, **Devleesschauwer B**, Khatkar MS, Lowerison M, Singh B, Dhand NK, Barkema HW. Disability-adjusted life years (DALYs) due to the direct health impact of COVID-19 in India, 2020. *Sci Rep*

[10] Van Wilder L, **Devleesschauwer B**, Clays E, Van der Heyden J, Charafeddine R, Scohy A, De Smedt D. QALY losses for chronic diseases and its social distribution in the general population: results from the Belgian Health Interview Survey. *Qual Life Res*

[9] Pires SM, Thomsen ST, Jakobsen LS, Redondo HG, Outzen M, Fagt S, **Devleesschauwer B**, Hansen M, Fabricius FA. Burden of disease of dietary exposure to four chemical contaminants in Denmark in 2019. *Expo Health*

[8] Peñalvo JL, Mertens E, Castellano JM, Kabir Z, Menasalvas E, Pereira DM, Riva S, Soriano G, Soriano JB, on behalf of the unCoVer network. Unravelling data for rapid evidence-based response to COVID-19: A summary of the unCoVer protocol. *BMJ Open*

[7] Gorasso V, Silversmit G, Arbyn M, Cornez A, De Pauw R, De Smedt D, Grant I, Wyper GM, **Devleesschauwer B**, Speybroeck N. The non-fatal burden of cancer in Belgium, 2004–2018. *BMC Cancer*

[6] Charalampous P, Gorasso V, Plass D, Pires SM, von der Lippe E, Mereke A, Idavain J, Kissimova-Skarbek K, Nazaré Morgado J, Ngwa CH, Noguer I, Padron-Monedero A, Santi-Cano MJ, Sarmiento R, **Devleesschauwer B**, Haagsma JA, The COST Action CA18218 participants. Burden of non-communicable disease studies in Europe: a systematic review of data sources and methodological choices. *Eur J Public Health*

[5] Cuschieri S, Calleja N, **Devleesschauwer B**, Wyper GMA. Estimating the direct Covid-19 disability-adjusted life years impact on the Malta population for the first full year. *J Public Health*

[4] Van Wilder L, Pype P, Mertens F, Rammant E, Clays E, **Devleesschauwer B**, Boeckxstaens P, De Smedt D. Living with a chronic disease: insights from patients with a low socioeconomic status. *Br J Gen Pract*

[3] Wyper GMA, Fletcher E, Grant I, McCartney G, Fischbacher C, Harding O, Jones H, de Haro Moro MT, Speybroeck N, **Devleesschauwer B**, Stockton DL. Measuring the direct population impact of COVID-19 in Scotland, 2020: estimating disability-adjusted life years (DALYs) during the first full calendar year. *BMC Med*

[2] Haneef R, Schmidt J, Gallay A, **Devleesschauwer B**, Grant I, Rommel A, Wyper GMA, Van Oyen H, Hilderink H, Ziese T, Newton J. Recommendations to plan a national Burden of Disease study. *BMC Public Health*

[1] Brusselmans J, De Sutter A, **Devleesschauwer B**, Verstraelen H, Cools P. The emotional, sexual and social impact of (recurrent) bacterial vaginosis: a systematic review. *BJOG*

7.4 Oral presentations

[16] **Devleesschauwer B** (2017) Estimates of the global and regional burden of foodborne parasites as determined by the World Health Organization. Presented at the *WAAVP 2017*; 6 Sep 2017; Kuala Lumpur, Malaysia.

[15] **Devleesschauwer B** (2017) WHO/FERG Estimates of the Global and Regional Burden of STEC. Presented at the *Joint FAO/WHO Expert Meeting on Shiga Toxin-producing Escherichia coli (STEC)*; 25 Sep 2017; Rome, Italy.

[14] **Devleesschauwer B** (2017) The disease burden of infectious diseases in Belgium. Presented at the *Seminar diagnosis and surveillance of infectious diseases WIV-ISP*; 18 May 2017; Brussels, Belgium.

[13] **Devleesschauwer B** (2016) Estimating the true burden of infectious diseases: methodological considerations. Presented at the *UCL Doctoral Day*; 29 Sep 2016; Brussels, Belgium.

[12] **Devleesschauwer B** (2016) Methodology to estimate disease burden. Presented at the *IAFP 2016*; 3 Aug 2016; St. Louis, MO, USA.

[11] **Devleesschauwer B** (2015) Methodological framework for WHO estimates of the global burden of foodborne disease. Presented at the *FERG symposium: Global burden foodborne diseases–from data to action*; 15-16 Dec 2015; Amsterdam, Netherlands.

[10] **Devleesschauwer B** (2015) Tips and tricks on writing a paper and getting it published. Presented at the *Animal Genetics Seminar*; 1 Dec 2015; Gainesville, FL, USA.

[9] **Devleesschauwer B**, Claes L, Dorny P (2015) Foodborne parasites in Belgium. Presented at the *1st EURO-FBP Working Group Meeting*; 26 Oct 2015; Zagreb, Croatia.

[8] **Devleesschauwer B** (2015) Quantifying uncertainty in Disability-Adjusted Life Year calculations. Presented at the *6th SIMID Workshop*; 29 Apr 2015; Antwerp, Belgium.

[7] **Devleesschauwer B**, Torgerson P, Charlier J, Levecke B, Praet N, Roelandt S, Smit S, Dorny P, Berkvens D, Speybroeck N (2014) Bayesian estimation of true prevalence from apparent prevalence in R: Introducing the "prevalence" package. Presented at the *Berliner Kolloquium—Statistische Methoden in der Empirischen Forschung*; 9 Dec 2014; Berlin, Germany.

[6] **Devleesschauwer B** (2014) Unravelling the burden of zoonoses in Nepal. Presented at the *University of Florida, Emerging Pathogens Institute, Seminar Series*; 18 Nov 2014; Gainesville, FL, USA.

[5] **Devleesschauwer B**, Speybroeck N (2014) Understanding, interpreting and calculating Disability-Adjusted Life Years. Presented at the *Scientific Institute of Public Health (WIV-ISP), Seminar Series*; 11 Mar 2014; Brussels, Belgium.

[4] **Devleesschauwer B**, Praet N, Dorny P, Duchateau L, Speybroeck N (2013) DALY calculation in practice: a stepwise approach. Presented at the *6th European Public*

Health Conference (EUPHA 2013): Health in Europe, are we there yet?; 14-16 Nov 2013; Brussels, Belgium.

[3] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2013) Unravelling the burden of parasitic zoonoses in Nepal. Presented at the *Joint NVP/BSP scientific meeting 2012: Challenges for the control of parasites*; 19 Oct 2013; Antwerp, Belgium.

[2] **Devleesschauwer B** (2013) DALY's and burden of disease. Presented at the *Institute of Tropical Medicine, Methodological Seminar Series*; 7 Jun 2013; Antwerp, Belgium.

[1] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2012) Élucidation du fardeau des zoonoses parasitaires au Népal. Presented at the *5ième Congrès international d'Épidémiologie (ADELF-EPITER): Épidémiologie et santé mondialisée*; 12-14 Sep 2012; Brussels, Belgium.

7.5 Poster presentations

[8] Maertens de Noordhout C, **Devleesschauwer B**, Speybroeck N (2017) Changes in health in Belgium 1990–2015: a benchmarking analysis based on the Global Burden of Disease 2015 study. Presented at the *GBD 20th Anniversary Event*; 25-27 Sep 2017; Seattle, WA, USA.

[7] Levecke B, Ghebretinsae AH, Anderson RM, Berkvens D, Vlaminck J, **Devleesschauwer B**, Speybroeck N, Vercruysse J, Van Aelst S (2016) Guidance in designing surveys for monitoring the progress of school-based deworming programmes to control soil-transmitted helminths. Presented at the *65th Annual Meeting of the American Society of Tropical Medicine and Hygiene*; 13-17 Nov 2016; Atlanta, GA, USA.

[6] Steckling N, Plass D, Winkelnkemper J, Fischer F, **Devleesschauwer B**, Krämer A, Hornberg C, Bose-O'Reilly S (2016) Disability weights for chronic metallic mercury vapor intoxication to improve estimates of the burden of disease resulting from mercury use in gold mining. Presented at the *28th Annual Conference of the International Society For Environmental Epidemiology*; 1-4 Sep 2016; Rome, Italy.

[5] Smit GSA, Padalko E, Van Acker J, Dorny P, Speybroeck N, Claerebout E, **Devleesschauwer B** (2016) The public health impact of congenital cytomegalovirus infection in Belgium. Presented at the *European Congenital Cytomegalovirus Initiative Conference*; 24-26 Apr 2016; Venice, Italy.

[4] van de Velde N, **Devleesschauwer B**, Decraeye S, Barnett J, Begeman L, Brownlow A, Davison N, Ijzer J, Jauniaux T, Hiemstra S, Siebert U, Dorny P (2014) *Toxoplasma gondii* in marine mammals. Presented at the *28th Annual Conference*

of the European Cetacean Society: Marine mammals as sentinels of a changing environment; 5-9 Apr 2014; Liège, Belgium.

[3] **Devleesschauwer B**, Havelaar A, Haagsma J, Praet N, Dorny P, Duchateau L, Speybroeck N (2012) Le "DALY Calculator" : une interface graphique pour le calcul des DALYs en R. Presented at the *5ième Congrès international d'Épidémiologie (ADELF-EPITER): Épidémiologie et santé mondialisée*; 12-14 Sep 2012; Brussels, Belgium.

[2] Nalon E, Maes D, **Devleesschauwer B**, Millet S, Van Riet M, Janssens G, Tuyttens F (2012) Assessment of mechanical nociception thresholds in lame versus non-lame sows with two methods. Presented at the *4th European symposium of Porcine Health Management*; 25-27 Apr 2012; Bruges, Belgium.

[1] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2011) Unravelling the burden of parasitic zoonoses in Nepal. Presented at the *Journée des doctorants: école doctorale thématique: santé publique, santé et société*; 17 Nov 2011; Brussels, Belgium.

7.6 Reports

[13] Food and Agriculture Organization of the United Nations, World Health Organization (2019) Attributing illness caused by Shiga toxin-producing *Escherichia coli* (STEC) to specific foods. JEMRA Microbiological Risk Assessment Series. http://www.fao.org/publications/card/en/c/CA5758EN

[12] Devos C, Cordon A, Lefèvre M, Obyn C, Renard F, Bouckaert N, Gerkens S, Maertens de Noordhout C, **Devleesschauwer B**, Haelterman M, Léonard C, Meeus P. Performance of the Belgian health system – report 2019. Health Services Research (HSR) Brussels: Belgian Health Care Knowledge Centre (KCE). 2019. KCE Reports 313. D/2019/10.273/34. https://kce.fgov.be/en/performance-of-the-belgian-health-sys
E2%80%93-report-2019

[11] Renard F, **Devleesschauwer B** (2019) Health Status Report 2019: De gezondheidstoestand in België. Brussels, Belgium: Sciensano; 48p. Report number D/2019/14.440/4. https://doi.org/10.25608/reh4-ty02

[10] Renard F, **Devleesschauwer B** (2019) Health Status Report 2019: L'état de santé en Belgique. Brussels, Belgium: Sciensano; 48p. Report number D/2019/14.440/3. https://doi.org/10.25608/a42z-ah78

[9] Federal Agency for the Safety of the Food Chain (2019) The FASFC analyses program regarding process contaminants (dossier SciCom 2018/03). http://www.afsca.be/scientificcommittee/opinions/2019/_documents/Advice02-2019.pdf

[8] Federal Agency for the Safety of the Food Chain (2018) The analysis program regarding microbiological analyses in prepared products, fish products, vegetables,

fruit, herbs, vegetable oil, fertilizers, beverages and water not intended for drinks (dossier SciCom 2017/24). http://www.afsca.be/scientificcommittee/opinions/2018/_documents/Advice15-2018.pdf

[7] Food and Agriculture Organization of the United Nations, World Health Organization (2018) Shiga toxin-producing *Escherichia coli* (STEC) and food: attribution, characterization, and monitoring. JEMRA Microbiological Risk Assessment Series. http://www.fao.org/documents/card/en/c/CA0032EN

[6] Graham H, Martijn Bouwknegt M, **Devleesschauwer B**, Robertson L, van der Giessen L (2016) COST Action FA1408: European ranking of foodborne parasites. Results of a workshop held to prioritise foodborne parasites in Europe using multi-criteria decision analyses, 8–12 February 2016, RIVM Bilthoven.

[5] World Health Organization (2015) WHO estimates of the global burden of foodborne diseases. Foodborne diseases burden epidemiology reference group 2007-2015. Geneva: WHO Press. http://www.who.int/foodsafety/publications/foodborne_disease/fergreport/en/

[4] Smit S, **Devleesschauwer B**, Apers L, Macq J, Beutels P, Speybroeck N (2015) Evaluation of the cost-effectiveness of the tuberculosis policies in Flanders. Report submitted to the Agency for Care and Health.

[3] Food and Agriculture Organization of the United Nations, World Health Organization (2014) Risk based examples for control of *Trichinella* spp. and *Taenia saginata* in meat. Report of a joint FAO/WHO expert meeting, 22–25 October 2013, WHO Headquarters, Geneva, Switzerland. ftp://ftp.fao.org/codex/meetings/CCFH/ccfh46/TrichinellaMtgReport241014.pdf

[2] World Health Organization (2014) WHO initiative to estimate the global burden of foodborne diseases: fifth formal meeting of the Foodborne Disease Burden Epidemiology Reference Group (FERG), 8–12 April 2013, Geneva, Switzerland. Geneva: WHO Press. http://www.who.int/foodsafety/publications/ferg5/en/

[1] World Health Organization (2014) WHO initiative to estimate the global burden of foodborne diseases: fourth formal meeting of the Foodborne Disease Burden Epidemiology Reference Group (FERG): Sharing New Results, Making Future Plans, and Preparing Ground for the Countries. Geneva: WHO Press. http://www.who.int/foodsafety/publications/ferg4/en/

7.7 R Packages

[8] **Devleesschauwer B**, McDonald S, Haagsma J, Praet N, Havelaar A, Speybroeck N (2016) DALY: The DALY Calculator—Graphical User Interface for Probabilistic DALY Calculation in R. R package version 1.5.0. https://cran.r-project.org/package=DALY

[7] **Devleesschauwer B**, Braae UC (2016) cystiSim: Agent-Based Model for *Taenia solium* Transmission and Control. R package version 0.1.0. https://cran.r-project.org/package=cystiSim

[6] **Devleesschauwer B** (2016) bd: brechtdv's helper functions. R package version 0.0.11. https://github.com/brechtdv/bd

[5] **Devleesschauwer B**, Faes C, Havelaar A, Speybroeck N (2016) QMRA: Parametric Models for Quantitative Microbial Risk Assessment. R package version 0.0.14. https://github.com/brechtdv/QMRA

[4] **Devleesschauwer B** (2016) HFA: R Interface to European Health for All Database (HFA-DB). R package version 0.0.0.9004. https://github.com/brechtdv/HFA

[3] **Devleesschauwer B**, McDonald S (2015) FERG: DALY Calculation Framework for WHO/FERG. R package version 0.1.0. https://github.com/brechtdv/FERG

[2] **Devleesschauwer B**, Willimès S, Van Malderen C, Konings P, Speybroeck N (2015) rineq: Statistical Analysis of Health Inequalities. R package version 0.0.1. https://github.com/brechtdv/rineq

[1] **Devleesschauwer B**, Torgerson PR, Charlier J, Levecke B, Praet N, Roelandt S, Smit G, Dorny P, Berkvens D, Speybroeck N (2015) prevalence: Tools for Prevalence Assessment Studies. R package version 0.4.0. https://cran.r-project.org/package=prevalence

7.8 Vulgarizing articles

[6] *In a tobacco-free world, life expectancy increases by 2 years.* Sciensano news, 11 December 2019. https://www.sciensano.be/en/press-corner/a-tobacco-free-world-life-ex

[6] *Acute gastroenteritis cost the Belgian economy hundreds of millions euros every year.* Sciensano news, 26 June 2019. https://www.sciensano.be/en/press-corner/acute-gastroenteritis-cost-belgian-economy-hundreds-millions-euros-every-year

[6] *New! Belgian Health Status Report available online.* Sciensano news, 22 February 2019. https://www.sciensano.be/en/press-corner/new-belgian-health-status-report-a

[5] *Belgium drops from 8th to 15th place on the European ladder of healthy life years.* Sciensano news, 16 July 2018. https://www.sciensano.be/en/press-corner/belgium-drops-8th-15th-place-european-ladder-healthy-life-years

[4] *One in 10 globally suffer from foodborne diseases, WHO study finds.* EPI News, 3 December 2015. http://news.ufl.edu/articles/2015/12/one-in-10-globally-suffer-fro php

[3] *Des nombres pour des aliments sûrs.* La Libre Belgique, 12 April 2015.

[2] *Comment les nombres rendent vos aliments plus sûrs.* Le Soir, 8 April 2015.

[1] *Hoe getallen je voedsel veiliger maken.* De Morgen, 7 April 2015. https://www.demorgen.be/opinie/hoe-getallen-je-voedsel-veiliger-maken-b7910eb9/

8 Scientific honors and awards

- **Odile Bain Memorial Prize**, Parasites & Vectors; 2018
- **PhD Scholarship**, Special Research Fund (BOF), Ghent University; 2010
- **Pfizer Award** for the best Master thesis in Veterinary Medicine; 2010
- **Dr Paul Janssen Award** for the best Master student in Veterinary Medicine; 2010
- **Floribert Jurion Fund**, Royal Academy for Overseas Sciences; 2009
- **Travel grant**, BIOS, Ghent University; 2008
- **Travel grant**, Flemish Inter-University Council—University Development Cooperation (VLIR-UOS); 2007

Brecht Devleesschauwer

06 October 2021