

Brecht Devleesschauwer (°09/09/1986)

Senior epidemiologist, PhD DVM MVSc MStat

Sciensano, Department of Epidemiology and Public Health

Center for Burden and Risk Assessment—www.cbra.be

brecht.devleesschauwer@sciensano.be | Skype: [brecht.devleesschauwer](https://www.skype.com/user/brecht.devleesschauwer)

Rue Juliette Wytsman 14, 1050 Brussels, Belgium | +32 2 642 5035

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

- **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

- **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 strengthen 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 Logistic responsibilities

4.6.1 Institutional responsibilities

- **Project leader**, 2017–present
Sciesano Translational Research Working Group
- **Member**, 2017–present
Sciensano Redactional Council

4.6.2 Management of research centers

- **Founding member**, 2014–present
Center for Burden and Risk Assessment, www.cbra.be

4.6.3 Organisation of national and international conferences

- **Member of scientific committee**
1st International CYSTINET Conference, 3–4 November 2015, Belgrade, Serbia

4.6.4 Other

- **Event organizer**, 2012–2014
RBelgium, the Belgian R user group
- **Rapporteur**, November 2010
Fourth meeting of the Foodborne Disease Burden Epidemiology Reference Group
WHO Headquarters, Geneva, Switzerland

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, L^AT_EX, 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

- **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 (5)

- **Vanessa Gorasso**, 2020–2024
PhD Public Health, Ghent University
Health impact assessment 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 (43)

- 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**.
- 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**.

- Hanab Adbinur Mahad (2020) Spatial distribution of smoking attributable mortality in Belgium. MSc Statistics, Hasselt University. Promoters: **Devleesschauwer B**, Faes C.
- 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 economic 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.**
- Alexia Lescart (2016) Socioeconomic inequalities in diarrhea in Nepal. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B.**
- Febe Vanpoucke (2016) Parasitic zoonoses in Ethiopia. MSc Veterinary Medicine, Ghent University. Promoters: **Devleesschauwer B.**, Dorny P.
- Louise Vanhecke (2016) Vector-borne diseases in Nepal. MSc Veterinary Medicine, Ghent University. Promoters: **Devleesschauwer B.**, Dorny P.
- Sara Hanna (2016) Burden of Crohn disease in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B.**

- Sonia Chebac (2016) Clinical impact of *Giardia*. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B**.
- Eveline Jansen (2015) Rabies in Ethiopia. MSc Veterinary Medicine, Ghent University. Promoters: Dorny P, **Devleesschauwer B**.
- Judth Verduijn (2015) Tick-borne zoonoses in Belgium. MSc Veterinary Medicine, Ghent University. Promoters: **Devleesschauwer B**, Claerebout E.
- Tom Sleghe (2015) Diapause in *Anopheles* mosquitoes. MSc Veterinary Medicine, Ghent University. Promoters: Duchateau L, **Devleesschauwer B**.
- Gerhardina (Gerdien) Huisman (2014) Zooprophylaxis: a malaria control strategy. MSc Veterinary Medicine, Ghent University. Promoters: Duchateau L, Yewhalaw D, **Devleesschauwer B**.
- Joke Yzerwyn (2014) *Opisthorchis* spp. in South-East Asia. MSc Veterinary Medicine, Ghent University. Promoters: Dorny P, **Devleesschauwer B**.
- Norbert van de Velde (2014) Toxoplasmosis in marine mammals. MSc Veterinary Medicine, Ghent University. Promoters: Dorny P, **Devleesschauwer B**.
- Eveline Jansen (2013) Rabies in Ethiopia. MSc Veterinary Medicine, Ghent University. Promoters: Dorny P, **Devleesschauwer B**.
- Gerhardina (Gerdien) Huisman (2013) Zooprophylaxis: a malaria control strategy. MSc Veterinary Medicine, Ghent University. Promoters: Duchateau L, Yewhalaw D, **Devleesschauwer B**.
- Norbert van de Velde (2013) Toxoplasmosis in marine mammals. MSc Veterinary Medicine, Ghent University. Promoters: Dorny P, **Devleesschauwer B**.
- Jani Van Pelt (2012) Echinococcosis in Ethiopia. MSc Veterinary Medicine, Ghent University. Promoters: Dorny P, **Devleesschauwer B**.
- Rudolf Spiekers (2012) Toxoplasmosis in wild felids. MSc Veterinary Medicine, Ghent University. Promoters: Dorny P, **Devleesschauwer B**.

6.7 BSc students (8)

- Carolina De La Rosa Mateo (2016) Burden of free-living protozoa in the USA. BSc Health Sciences, University of Florida. Promoter: **Devleesschauwer B**.
- Natalie Bonilla (2016) *Toxoplasma gondii* risk in different food items. BSc Health Sciences, University of Florida. Promoter: **Devleesschauwer B**.
- Ziqi Wang (2016) Epidemiology of *Taenia solium* in Central America. BSc Biochemistry, University of Florida. Promoter: **Devleesschauwer B**.

- Jolien De Keulenaer (2015) *Taenia saginata* taeniosis/cysticercosis in Belgium. BSc Biomedical Sciences, Antwerp University. Promoters: **Devleesschauwer B**, Smit S.
- Liene Bossaerts (2014) Lyme disease in the Benelux. BSc Biomedical Sciences, Antwerp University. Promoters: **Devleesschauwer B**, Speybroeck N.
- Nina Redzic (2013) Neurological symptoms of toxoplasmosis in adults. BSc Biomedical Sciences, Antwerp University. Promoters: **Devleesschauwer B**, Speybroeck N.
- Yannick Van der Venne (2013) Listeriosis in Belgium. BSc Biomedical Sciences, Antwerp University. Promoters: **Devleesschauwer B**, Speybroeck N.
- Anne Declercq (2012) Rabies in Nepal. BSc Biomedical Sciences, Antwerp University. Promoters: **Devleesschauwer B**, Speybroeck N.

6.8 Short-term scientific missions (4)

- **Fabian Dupont**, October 2015
MSc Medicine, Technische Universität München
Health and economic impact of *Taenia solium* neurocysticercosis in Uganda
- **Uffe Christian Braae**, December 2014
PhD Veterinary Medicine, University of Copenhagen
Development of a *Taenia solium* transmission model
- **Hardy Richter**, September 2014
Research associate, Munich Global Neurology Group
Landscape analysis of *Taenia solium* neurocysticercosis in Europe
- **Chiara Trevisan**, July 2014
PhD Veterinary Medicine, University of Copenhagen
Burden assessment of *Taenia solium* cysticercosis in Tanzania

6.9 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.*, in press
- [7] **Devleesschauwer B**, Pires SM, Kowalczyk 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](https://doi.org/10.1201/9780429083525-4)
- [6] **Devleesschauwer B**, Scharff RL, Kowalczyk 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](https://doi.org/10.1007/978-3-319-92138-9_6)
- [5] Kowalczyk 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](https://doi.org/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](https://doi.org/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_15](https://doi.org/10.1007/978-3-319-67664-7_15)

- [2] **Devleesschauwer B**, Bouwknecht 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](https://doi.org/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](https://doi.org/10.1016/bs.apar.2015.01.001)

7.2 Peer-reviewed papers

Google Scholar metrics: 7442 citations · h-index 34 · i10-index 94

- [154] Rushton J, Huntington B, Gilbert W, Herrero M, Torgerson PR, Shaw APM, Bruce M, Marsh TL, Pendell DL, Bernardo TM, Stacey D, Grace D, Watkins K, Bondad-Reantaso M, **Devleesschauwer B**, Pigott DM, Stone M, Mesenhowski S (2021) Roll-out of the Global Burden of Animal Diseases programme. *Lancet*, in press. doi: [10.1016/S0140-6736\(21\)00189-6](https://doi.org/10.1016/S0140-6736(21)00189-6)
- [153] Santos JV, Viana J, **Devleesschauwer B**, Haagsma J, Costa-Santos C, Ricciardi W, Freitas A (2021) Health expectancies in the European Union: same concept, different methods, different results. *J Epidemiol Community Health*, in press. doi: [10.1136/jech-2020-213791](https://doi.org/10.1136/jech-2020-213791)
- [152] Engelen F, Thiry D, **Devleesschauwer B**, Mainil J, De Zutter L, Cox E (2021) Occurrence of 'gang of five' Shiga toxin-producing *Escherichia coli* (STEC) serogroups on Belgian dairy cattle farms by overshoe sampling. *Lett Appl Microbiol*, in press. doi: [10.1111/lam.13434](https://doi.org/10.1111/lam.13434)
- [151] Schäfer AC, Schmidt A, Bechthold A, Boeing H, Watzl B, Darmon N, **Devleesschauwer B**, Heckelet T, Pires SM, Nadaud P, van Dooren C, Vieux F (2021) Integration of various dimensions in food-based dietary guidelines via mathematical approaches. Report of a DGE/FENS Workshop in Bonn, Germany, 23-24 September 2019. *Br J Nutr*, in press. doi: [10.1017/S0007114520004857](https://doi.org/10.1017/S0007114520004857)
- [150] Kalenda NK, Malekita DY, Tshibangu-Kabamba E, Rosas-Aguirre A, Tuan VP, Yamaoka Y, **Devleesschauwer B**, Mvumbi DM, Wemakoy EO, De Mol P, Hayette M-P, Mvumbi GL (2021) Spatial and molecular mapping of the PfKelch13 gene polymorphism in Africa in the era of emerging *Plasmodium falciparum* resistance to artemisinin: A systematic review. *Lancet Infect Dis*, in press. doi: [10.1016/S1473-3099\(20\)30493-X](https://doi.org/10.1016/S1473-3099(20)30493-X)

- [149] Engelen F, Thiry D, **Devleesschauwer B**, Heyndrickx M, Mainil J, De Zutter L, Cox E (2021) Pathogenic potential of *Escherichia coli* O157 and O26 isolated from young Belgian dairy calves by recto-anal mucosal swab culturing. *J Appl Microbiol*, in press. doi: [10.1111/jam.14909](https://doi.org/10.1111/jam.14909)
- [148] 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** (2021) Burden of foodborne diseases: think global, act local. *Curr Opin Food Sci* 39:152-159. doi: [10.1016/j.cofs.2021.01.006](https://doi.org/10.1016/j.cofs.2021.01.006)
- [147] von der Lippe E, **Devleesschauwer B**, Gourley M, Haagsma J, Hilderink H, Porst M, Wengler A, Wyper G, Grant I (2020) Reflections on key methodological decisions in national burden of disease assessments. *Arch Public Health* 78:137. doi: [10.1186/s13690-020-00519-7](https://doi.org/10.1186/s13690-020-00519-7)
- [146] Habets A, Engelen F, Duprez J-N, **Devleesschauwer B**, Heyndrickx M, De Zutter L, Thiry D, Cox E, Mainil J (2020) Identification of Shigatoxigenic and enteropathogenic *Escherichia coli* serotypes in healthy young dairy calves in Belgium by recto-anal mucosal swabbing. *Vet Sci* 7:167. doi: [10.3390/vetsci7040167](https://doi.org/10.3390/vetsci7040167)
- [145] Vaernewyck V, Mwape KE, Mubanga C, **Devleesschauwer B**, Gabriël S, Trevisan C (2020) Effects of ‘The Vicious Worm’ educational software on *Taenia solium* knowledge among key pork supply chain workers in Zambia. *PLOS Negl Trop Dis* 14:e0008790. doi: [10.1371/journal.pntd.0008790](https://doi.org/10.1371/journal.pntd.0008790)
- [144] Fastl C, **Devleesschauwer B**, van Cauteren D, Lajot A, Leroy M, Laisnez V, Schirvel C, Mahieu R, Pierard D, Michel C, Jacquinet S (2020) The burden of legionnaires’ disease in Belgium, 2013 to 2017. *Arch Public Health* 78:92. doi: [10.1186/s13690-020-00470-7](https://doi.org/10.1186/s13690-020-00470-7)
- [143] Van Wilder L, Clays E, **Devleesschauwer B**, Pype P, Boeckxstaens P, Schrans D, De Smedt D (2020) Health-related quality of life in patients with non-communicable disease: study protocol of a cross-sectional survey. *BMJ Open* 10:e037131. doi: [10.1136/bmjopen-2020-037131](https://doi.org/10.1136/bmjopen-2020-037131)
- [142] Van Goethem N, Struelens Marc J, De Keersmaecker SCJ, Roosens NHC, Robert A, Quoilin S, Van Oyen H, **Devleesschauwer B** (2020) Perceived utility and feasibility of pathogen genomics for public health practice: a survey among public health professionals working in the field of infectious diseases, Belgium, 2019. *BMC Public Health* 20:1318. doi: [10.1186/s12889-020-09428-4](https://doi.org/10.1186/s12889-020-09428-4)
- [141] Cuschieri S, Wyper GMA, Calleja N, Gorasso V, **Devleesschauwer B** (2020) Measuring disability-adjusted life years (DALYs) due to low back pain in Malta. *Arch Public Health* 78:68. doi: [10.1186/s13690-020-00451-w](https://doi.org/10.1186/s13690-020-00451-w)
- [140] Gabriël S, Mwape KE, Dorny P, Hobbs EC, **Devleesschauwer B**, Van Damme I, Zulu G, Chembensouf M, Mubanga C, Masuku M, Mambwe M, De Coster T,

- Phiri IK, Berkvens D, Colston A, Bottieau E, Speybroeck N, Ketzis J, Willingham AL, Trevisan C (2020) Potential elimination of active *Taenia solium* transmission in Africa. *N Engl J Med* 383:396-397. doi: [10.1056/NEJMc1909955](https://doi.org/10.1056/NEJMc1909955)
- [139] **Devleesschauwer B**, McDonald S, Speybroeck N, Wyper GMA (2020) Valuing the years of life lost due to COVID-19: the differences and pitfalls. *Int J Public Health* 65:719-720. doi: [10.1007/s00038-020-01430-2](https://doi.org/10.1007/s00038-020-01430-2)
- [138] Hobbs EC, Mwape KE, Phiri AM, Mambwe M, Mambo R, Thys S, Zulu G, Chembensofu M, Trevisan C, Van Damme I, Phiri IK, **Devleesschauwer B**, Ketzis JK, Dorny P, Willingham AL, Gabriël S (2020) Perceptions and acceptability of piloted *Taenia solium* control and elimination interventions in two endemic communities in eastern Zambia. *Transbound Emerg Dis* 67:69-81. doi: [10.1111/tbed.13214](https://doi.org/10.1111/tbed.13214)
- [137] Wyper GM, Assunção RM, Cuschieri S, Devleesschauwer 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 (2020) Population vulnerability to COVID-19 in Europe: a burden of disease analysis. *Arch Public Health* 78:47. doi: [10.1186/s13690-020-00433-y](https://doi.org/10.1186/s13690-020-00433-y)
- [136] Eichenberger RM, Thomas LF, Gabriël S, Bobic B, **Devleesschauwer B**, Robertson LJ, Saratsis A, Torgerson PR, Braae UC, Dermauw V, Dorny P (2020) Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in East, Southeast and South Asia. *Parasit Vectors* 13:234. doi: [10.1186/s13071-020-04095-1](https://doi.org/10.1186/s13071-020-04095-1)
- [135] McDonald SA, Haagsma JA, Cassini A, **Devleesschauwer B** (2020) Adjusting for comorbidity in incidence-based DALY calculations: an individual-based modeling approach. *BMC Med Res Methodol* 20:100. doi: [10.1186/s12874-020-00987-z](https://doi.org/10.1186/s12874-020-00987-z)
- [134] Abraham A, Schmidt V, Kaminski M, Stelzle D, De Meijere R, Bustos J, Sahunm PS, Garcia HH, Bobic B, Cretu C, Chiodini P, Deksne G, Dermauw V, **Devleesschauwer B**, Dorny P, Fonseca A, Gabriël S, Gómez Morales MÁ, Kucsera I, Trevisan C, Vilhena M, Walker NF, Zammarchi L, Winkler AS (2020) Epidemiology and surveillance of human (neuro)cysticercosis in Europe: is enhanced surveillance required? *Trop Med Int Health* 25:566-578. doi: [10.1111/tmi.13384](https://doi.org/10.1111/tmi.13384)
- [133] Becker P, Lecerf P, Clareboudt J, **Devleesschauwer B**, Packeu A, Hendrickx M (2020) Superficial mycoses in Belgium: burden, costs, and antifungal drugs consumption. *Mycoses* 63:500-508. doi: [10.1111/myc.13063](https://doi.org/10.1111/myc.13063)
- [132] Dixon MA, Braae UC, Winskill P, **Devleesschauwer B**, Trevisan C, Van Damme I, Walker M, Hamley JID, Ramianandroa SN, Schmidt V, Gabriël S, Harrison W, Basáñez M-G (2020) Modelling for *Taenia solium* control strategies beyond 2020. *Bull World Health Org* 98:198-205. doi: [10.2471/blt.19.238485](https://doi.org/10.2471/blt.19.238485)

- [131] Otavova M, Van Oyen H, Yokota RTC, Charafeddine R, Joossens L, Molenberghs G, Nusselder WJ, Boshuizen HC, **Devleesschauwer B** (2020) Potential impact of reduced tobacco use on life and health expectancies in Belgium. *Int J Public Health* 65:129-138. doi: [10.1007/s00038-019-01315-z](https://doi.org/10.1007/s00038-019-01315-z)
- [130] **Devleesschauwer B** (2020) European burden of disease network: strengthening the collaboration. *Eur J Public Health* 30:2-3. doi: [10.1093/eurpub/ckz225](https://doi.org/10.1093/eurpub/ckz225)
- [129] Van Wilder L, Rammant E, Clays E, **Devleesschauwer B**, Pauwels N, De Smedt D (2019) A comprehensive catalogue of EQ-5D scores in chronic disease: results of a systematic review. *Qual Life Res* 28:3153-3161. doi: [10.1007/s11136-019-02300-y](https://doi.org/10.1007/s11136-019-02300-y)
- [128] **Devleesschauwer B**, De Backer G (2019) Welke voedingsmiddelen hebben de grootste impact op de volksgezondheid in België? *Food Sci Law* 4:205-2015
- [127] Moyersoen I, **Devleesschauwer B**, Dekkers A, Verkaik-Kloosterman J, De Ridder K, Vandevijvere S, Tafforeau J, Van Oyen H, Lachat C, Van Camp J (2019) A novel approach to optimize vitamin D intake in Belgium through fortification based on representative food consumption data. *J Nutr* 149:1852-1862. doi: [10.1093/jn/nxz119](https://doi.org/10.1093/jn/nxz119)
- [126] CystiTeam Group for Epidemiology and Modelling of *Taenia solium* Taeniasis/Cysticercosis (2019) The World Health Organization 2030 goals for *Taenia solium*: Insights and perspectives from transmission dynamics modelling [version 1; peer review: awaiting peer review]. *Gates Open Res* 3:1546. doi: [10.12688/gatesopenres.13068.1](https://doi.org/10.12688/gatesopenres.13068.1)
- [125] Geebelen L, Van Cauteren D, **Devleesschauwer B**, Moreels S, Tersago K, Van Oyen H, Speybroeck N, Lernout T (2019) Schatting van de incidentie van de klinische manifestaties van Lyme borreliose in Vlaanderen op basis van primaire surveillancegegevens en een meta-analyse, 2015-2017. *Vlaams Infectieziektenbulletin* 3:2
- [124] Van Goethem N, Descamps T, **Devleesschauwer B**, Roosens N, Boon N, Van Oyen H, Robert A (2019) Status and potential of pathogen genomics for public health practice: a scoping review. *Implement Sci* 14:79. doi: [10.1186/s13012-019-0930-2](https://doi.org/10.1186/s13012-019-0930-2)
- [123] Birnie E, Virk HS, Savelkoel J, Spijker R, Bertherat E, Dance DAB, Limmathurotsakul D, **Devleesschauwer B**, Haagsma JA, Wiersinga WJ (2019) Global burden of melioidosis, 2015: a systematic review and data synthesis. *Lancet Infect Dis* 19:892-902. doi: [10.1016/S1473-3099\(19\)30157-4](https://doi.org/10.1016/S1473-3099(19)30157-4)
- [122] Schwingshackl L, Knüppel S, Michels N, Schwedhelm C, Hoffmann G, Iqbal K, Dehenauf S, Boeing H, **Devleesschauwer B** (2019) Intake of 12 food groups and disability-adjusted life years from coronary heart disease, stroke, type 2 diabetes, and colorectal cancer in 16 European countries. *Eur J Epidemiol* 34:765-775. doi: [10.1007/s10654-019-00523-4](https://doi.org/10.1007/s10654-019-00523-4)
- [121] **Devleesschauwer B**, Pires SM, Young I, Gill A, Majowicz SE (2019) Associating sporadic, foodborne illness caused by Shiga toxin-producing *Escherichia coli* with

- specific foods: a systematic review and meta-analysis of case-control studies. *Epidemiol Infect* 147:e235. doi: [10.1017/S0950268819001183](https://doi.org/10.1017/S0950268819001183)
- [120] Pires SM, Majowicz S, Gill A, **Devleesschauwer B** (2019) Global and regional source attribution of Shiga toxin-producing *Escherichia coli* infections using analysis of outbreak surveillance data. *Epidemiol Infect* 147:e236. doi: [10.1017/S095026881900116X](https://doi.org/10.1017/S095026881900116X)
- [119] Gibb HJ, Barchowsky A, Bellinger D, Bolger PM, Carrington C, Havelaar AH, Oberoi S, Zang Y, O’Leary K, **Devleesschauwer B** (2019) Estimates of the 2015 global and regional disease burden from four foodborne metals – arsenic, cadmium, lead and methylmercury. *Environ Res* 174:188-194. doi: [10.1016/j.envres.2018.12.062](https://doi.org/10.1016/j.envres.2018.12.062)
- [118] Hendrickx E, Thomas LF, Dorny P, Bobic B, Braae UC, **Devleesschauwer B**, Eichenberger RM, Gabriël S, Saratsis A, Torgerson PR, Robertson LJ, Dermauw V (2019) Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in Western and Central Africa. *Parasit Vectors* 12:324. doi: [10.1186/s13071-019-3584-7](https://doi.org/10.1186/s13071-019-3584-7)
- [117] Havelaar AH, Li M, Hoffmann S, Hald T, Kirk MD, Torgerson PR, **Devleesschauwer B** (2019) Global disease burden of pathogens in animal source foods, 2010. *PLOS ONE* 14:e0216545. doi: [10.1371/journal.pone.0216545](https://doi.org/10.1371/journal.pone.0216545)
- [116] Bechthold A, Boeing H, Schwedhelm C, Hoffmann G, Knüppel S, Iqbal K, De Henauw S, Michels N, **Devleesschauwer B**, Schlesinger S, Schwingshackl L (2019) Food groups and risk of coronary heart disease, stroke and heart failure: a systematic review and dose-response meta-analysis of prospective studies. *Crit Rev Food Sci Nutr* 59:1071-1090. doi: [10.1080/10408398.2017.1392288](https://doi.org/10.1080/10408398.2017.1392288)
- [115] Renard F, **Devleesschauwer B**, Speybroeck N, Deboosere P (2019) Monitoring health inequalities when the socio-economic composition changes: are the Slope and Relative Indices of Inequality appropriate ? Results of a simulation study. *BMC Public Health* 19:662. doi: [10.1186/s12889-019-6980-1](https://doi.org/10.1186/s12889-019-6980-1)
- [114] Hobbs EC, Mwape KE, **Devleesschauwer B**, Van Damme I, Krit M, Berkvens D, Zulu G, Mambwe M, Chembensofu M, Trevisan C, Baauw J, Phiri IK, Speybroeck N, Ketzis J, Dorny P, Willingham III AL, Gabriël S (2019) Effects of 'The Vicious Worm' educational tool on *Taenia solium* knowledge retention in Zambian primary school students after one year. *PLOS Negl Trop Dis* 13:e0007336. doi: [10.1371/journal.pntd.0007336](https://doi.org/10.1371/journal.pntd.0007336)
- [113] Zuhair M, Smit GSA, Wallis G, Jabbar F, Smith C, **Devleesschauwer B**, Griffiths P (2019) Estimation of the worldwide seroprevalence of cytomegalovirus: a systematic review and meta-analysis. *Rev Med Virol* 29:e2034. doi: [10.1002/rmv.2034](https://doi.org/10.1002/rmv.2034)
- [112] Carrington C, **Devleesschauwer B**, Gibb HJ, Bolger PM (2019) Global burden of intellectual disability resulting from dietary exposure to lead, 2015. *Environ Res* 172:420-429. doi: [10.1016/j.envres.2019.02.023](https://doi.org/10.1016/j.envres.2019.02.023)

- [111] Plass D, Tobollik M, **Devleesschauwer B**, Grill E, Hoffmann B, Hurrass J, Künzli N, Peters A, Rothenbacher D, Schneider A, Wichmann HE, Wintermeyer D, Wolf J, Zeeb H, Straff W (2019) Kritik an Population Attributable Fraction bei genauerem Hinsehen nicht gerechtfertigt. *Gesundheitswesen* 81:444-447. doi: [10.1055/a-0915-1215](https://doi.org/10.1055/a-0915-1215)
- [110] Torgerson PR, Abdybekova AM, Minbaeva G, Shapiyeva Z, Thomas LF, Dermauw V, **Devleesschauwer B**, Gabriël S, Dorny P, Braae UC, Saratsis A, Robertson LJ, Bobic B (2019) Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in Central and Western Asia and the Caucasus. *Parasit Vectors* 12:175. doi: [10.1186/s13071-019-3438-3](https://doi.org/10.1186/s13071-019-3438-3)
- [109] Smit GSA, Vu BTL, Do DT, Do QH, Pham HQ, Speybroeck N, **Devleesschauwer B**, Padalko E, Roets E, Dorny P (2019) Sero-epidemiological status and risk factors of toxoplasmosis in pregnant women in Northern Vietnam. *BMC Infect Dis* 19:329. doi: [10.1186/s12879-019-3885-7](https://doi.org/10.1186/s12879-019-3885-7)
- [108] Dixon MA, Braae UC, Winskill P, Walker M, **Devleesschauwer B**, Gabriël S, Basáñez M-G (2019) Strategies for tackling *Taenia solium* taeniosis/cysticercosis: A systematic review and comparison of transmission models, including an assessment of the wider Taeniidae family transmission models. *PLOS Negl Trop Dis* 13:e0007301. doi: [10.1371/journal.pntd.0007301](https://doi.org/10.1371/journal.pntd.0007301)
- [107] Thomsen ST, de Boer W, Pires SM, **Devleesschauwer B**, Fagt S, Andersen R, Poulsen M, van der Voet H (2019) A probabilistic approach for risk-benefit assessment of food substitutions: a case study on substituting meat by fish. *Food Chem Toxicol* 126:79-96. doi: [10.1016/j.fct.2019.02.018](https://doi.org/10.1016/j.fct.2019.02.018)
- [106] Geebelen L, Van Cauteren D, **Devleesschauwer B**, Moreels S, Tersago K, Van Oyen H, Speybroeck N, Lernout T (2019) Combining primary care surveillance and a meta-analysis to estimate the incidence of the clinical manifestations of Lyme borreliosis in Belgium, 2015-2017. *Ticks Tick Borne Dis* 10:598-605. doi: [10.1016/j.ttbdis.2018.12.007](https://doi.org/10.1016/j.ttbdis.2018.12.007)
- [105] Oberoi S, **Devleesschauwer B**, Gibb HJ, Barchowsky A (2019) Global burden of cancer and coronary heart disease resulting from dietary exposure to arsenic, 2015. *Environ Res* 171:185-192. doi: [10.1016/j.envres.2019.01.025](https://doi.org/10.1016/j.envres.2019.01.025)
- [104] Smit GSA, Abrams S, Dorny P, Speybroeck N, **Devleesschauwer B**, Hutse V, Jansens H, Theeten H, Beutels P, Hens N (2019) The seroprevalence of cytomegalovirus infection in Belgium anno 2002 and 2006: a comparative analysis with hepatitis A virus seroprevalence. *Epidemiol Infect* 147:e154. doi: [10.1017/S0950268819000487](https://doi.org/10.1017/S0950268819000487)
- [103] Saratsis A, Sotiraki S, Braae UC, **Devleesschauwer B**, Dermauw V, Eichenberger RM, Thomas LF, Bobic B, Dorny P, Gabriël S, Robertson LJ (2019) Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution

- in the Middle East and North Africa. *Parasit Vectors* 12:113. doi: [10.1186/s13071-019-3339-5](https://doi.org/10.1186/s13071-019-3339-5)
- [102] Papadopoulos T, Klammer S, Jacquinet S, Catry B, Litzroth A, Mortgat L, Mamouris P, Rebolledo J, Vaes B, Van Cauteren D, Van der Heyden J, Beutels P, **Devleesschauwer B** (2019) The health and economic impact of acute gastroenteritis in Belgium, 2010–2014. *Epidemiol Infect* 147:e146. doi: [10.1017/S095026881900044X](https://doi.org/10.1017/S095026881900044X)
 - [101] Bellinger DC, **Devleesschauwer B**, O’Leary K, Gibb HJ (2019) Global burden of intellectual disability resulting from prenatal exposure to methylmercury, 2015. *Environ Res* 170:416–421. doi: [10.1016/j.envres.2018.12.042](https://doi.org/10.1016/j.envres.2018.12.042)
 - [100] Renard F, **Devleesschauwer B**, Van Oyen H, Gadeyne S, Deboosere P (2019) Evolution of educational inequalities in life and health expectancies at 25 years in Belgium between 2001 and 2011: a census-based study. *Arch Public Health* 77:6. doi: [10.1186/s13690-019-0330-8](https://doi.org/10.1186/s13690-019-0330-8)
 - [99] Zang Y, **Devleesschauwer B**, Bolger PM, Goodman E, Gibb HJ (2019) Global burden of late-stage chronic kidney disease resulting from dietary exposure to cadmium, 2015. *Environ Res* 169:72–78. doi: [10.1016/j.envres.2018.10.005](https://doi.org/10.1016/j.envres.2018.10.005)
 - [98] Gabriël S, Mwape KE, Phiri IK, **Devleesschauwer B**, Dorny P (2019) *Taenia solium* control in Zambia: the potholed road to success. *Parasite Epidemiol Control* 4:e00082. doi: [10.1016/j.parepi.2018.e00082](https://doi.org/10.1016/j.parepi.2018.e00082)
 - [97] Rahman AKMA, Smit S, **Devleesschauwer B**, Kostoulas P, Abatih E, Saegerman C, Shamsuddin M, Berkvens D, Dhand NK, Ward MP (2019) Bayesian evaluation of three serological tests for the diagnosis of bovine brucellosis in Bangladesh. *Epidemiol Infect* 147:e73. doi: [10.1017/S0950268818003503](https://doi.org/10.1017/S0950268818003503)
 - [96] Cassini A, Högberg LD, Plachouras D, Quattrocchi A, Hoxha A, Simonsen GS, Colomb-Cotinat M, Kretzschmar ME, **Devleesschauwer B**, Cecchini M, Ouakrim DA, Oliveira TC, Struelens MJ, Suetens C, Monnet DL, the Burden of AMR collaborative group (2019) Attributable deaths and disability-adjusted life-years caused by infections with antibiotic-resistant bacteria in the EU and the European Economic Area in 2015: a population-level modelling analysis. *Lancet Infect Dis* 19:56–66. doi: [10.1016/S1473-3099\(18\)30605-4](https://doi.org/10.1016/S1473-3099(18)30605-4)
 - [95] Bobic B, Thomas L, Djurkovic Djakovic O, **Devleesschauwer B**, Dermauw V, Dorny P, Braae UC, Robertson L, Saratsis A, Eichenberger R, Torgerson P (2018) Epidemiology of *Taenia saginata* taeniosis/cysticercosis in the Russian Federation. *Parasit Vectors* 11:636. doi: [10.1186/s13071-018-3236-3](https://doi.org/10.1186/s13071-018-3236-3)
 - [94] EFSA Panel on Biological Hazards (BIOHAZ), Koutsoumanis K, Allende A, Alvarez-Ordóñez A, Bolton D, Bover-Cid S, Chemaly M, Davies R, De Cesare A, Herman L, Hilbert F, Lindqvist R, Nauta M, Peixe L, Ru G, Simmons M, Skandamis P, Suffredini E, Cacciò S, Chalmers R, Deplazes P, **Devleesschauwer B**, Innes E,

- Romig T, van der Giessen J, Hempen M, Van der Stede Y, Robertson L (2018) Public health risks associated with food-borne parasites. *EFSA J* 16:e05495. doi: [10.2903/j.efsa.2018.5495](https://doi.org/10.2903/j.efsa.2018.5495)
- [93] Goudet S, Jayaraman A, Chanani S, Osrin D, **Devleesschauwer B**, Bogin B, Madise N, Griffiths P (2018) Cost effectiveness of a community based prevention and treatment of acute malnutrition programme in Mumbai slums, India. *PLOS ONE* 13:e0205688. doi: [10.1371/journal.pone.0205688](https://doi.org/10.1371/journal.pone.0205688)
- [92] Dermauw V, Dorny P, Braae UC, **Devleesschauwer B**, Robertson LJ, Saratsis A, Thomas LF (2018) Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in southern and eastern Africa. *Parasit Vectors* 11:578. doi: [10.1186/s13071-018-3163-3](https://doi.org/10.1186/s13071-018-3163-3)
- [91] Trevisan C, Sotiraki S, Laranjo-González M, Dermauw V, Wang Z, Kärssin A, Cvetkovikj A, Winkler AS, Abraham A, Bobic B, Lassen B, Cretu C, Vasile C, Arvanitis D, Deksne G, Boro I, Kucsera I, Karamon J, Stefanovska J, Bretislav K, Pavlova MJ, Varady M, Pavlak M, Sarkunas M, Kaminski M, Djurkovic-Djakovic O, Jokelainen P, Stojcevic Jan D, Schmidt V, Dakic Z, Dorny P, Gabriël S, **Devleesschauwer B** (2018) Epidemiology of taeniosis/cysticercosis in Europe, a systematic review: Eastern Europe. *Parasit Vectors* 11:569. doi: [10.1186/s13071-018-3153-5](https://doi.org/10.1186/s13071-018-3153-5)
- [90] Braae UC, Thomas LF, Robertson LJ, Dermauw V, Dorny P, Willingham AL, Saratsis A, **Devleesschauwer B** (2018) Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in the Americas. *Parasit Vectors* 11:518. doi: [10.1186/s13071-018-3079-y](https://doi.org/10.1186/s13071-018-3079-y)
- [89] Okello W, Okello A, Inthavong P, Tiemann T, Phengvilasouk A, **Devleesschauwer B**, Shaw A, Allen J (2018) Improved methods to capture the total societal benefits of zoonotic disease control: Demonstrating the cost-effectiveness of an integrated control programme for *Taenia solium*, soil transmitted helminths and classical swine fever in northern Lao PDR. *PLOS Negl Trop Dis* 12:e0006782. doi: [10.1371/journal.pntd.0006782](https://doi.org/10.1371/journal.pntd.0006782)
- [88] Teng KT-Y, **Devleesschauwer B**, Maertens de Noordhout C, Bennett P, McGreevy PD, Chiu P-Y, Toribio J-AL, Dhand NK (2018) Welfare-Adjusted Life Years (WALY): A novel metric of animal welfare that combines the impacts of impaired welfare and abbreviated lifespan. *PLOS ONE* 13:e0202580. doi: [10.1371/journal.pone.0202580](https://doi.org/10.1371/journal.pone.0202580)
- [87] Thomsen ST, Pires SM, **Devleesschauwer B**, Poulsen M, Fagt S, Ygil KH, Andersen R (2018) Investigating the risk-benefit balance of substituting red and processed meat with fish in a Danish diet. *Food Chem Toxicol* 120:50-63. doi: [10.1016/j.fct.2018.06.063](https://doi.org/10.1016/j.fct.2018.06.063)
- [86] Laranjo-González M, **Devleesschauwer B**, Jansen F, Dorny P, Dupuy C, Requena-Méndez A, Allepuz A (2018) Epidemiology and economic impact of bovine cysticer-

- cosis and taeniosis caused by *Taenia saginata* in North-eastern Spain (Catalonia). *Parasit Vectors* 11:376. doi: [10.1186/s13071-018-2931-4](https://doi.org/10.1186/s13071-018-2931-4)
- [85] Maertens de Noordhout C, Van Oyen H, Speybroeck N, **Devleesschauwer B** (2018) Changes in health in Belgium, 1990-2016: a benchmarking analysis based on the Global Burden of Disease 2016 study. *BMC Public Health* 18:775. doi: [10.1186/s12889-018-5708-y](https://doi.org/10.1186/s12889-018-5708-y)
- [84] Torgerson PR, Rüegg S, **Devleesschauwer B**, Abela-Ridder B, Havelaar AH, Shaw A, Rushton J, Speybroeck N (2018) zDALY: an adjusted indicator for the burden of zoonotic diseases. *One Health* 5:40-45. doi: [10.1016/j.onehlt.2017.11.003](https://doi.org/10.1016/j.onehlt.2017.11.003)
- [83] Schwingshackl L, Schwedhelm C, Hoffmann G, Knüppel S, Preterre AL, Iqbal K, Bechthold A, De Henauw S, Michels N, **Devleesschauwer B**, Schlesinger S, Boeing H (2018) Food groups and risk of colorectal cancer. *Int J Cancer* 142:1748-1758. doi: [10.1002/ijc.31198](https://doi.org/10.1002/ijc.31198)
- [82] Schwingshackl L, Schlesinger S, **Devleesschauwer B**, Hoffmann G, Bechthold A, Schwedhelm C, Iqbal K, Knüppel S, Boeing H (2018) Generating the evidence for risk reduction – a contribution to the future of food-based dietary guidelines. *Proc Nutr Soc* 77:432-444. doi: [10.1017/S0029665118000125](https://doi.org/10.1017/S0029665118000125)
- [81] Deng H, **Devleesschauwer B**, Liu M, Li J, Wu Y, van der Giessen J, Opsteegh M (2018) Seroprevalence of *Toxoplasma gondii* in pregnant women and livestock in the mainland of China: a systematic review and hierarchical meta-analysis. *Sci Rep* 8:6218. doi: [10.1038/s41598-018-24361-8](https://doi.org/10.1038/s41598-018-24361-8)
- [80] Jansen F, Dorny P, Trevisan C, Dermauw V, Laranjo-González M, Allepuz A, Dupuy C, Krit M, Gabriël S, **Devleesschauwer B** (2018) Economic impact of bovine cysticercosis and taeniosis caused by *Taenia saginata* in Belgium. *Parasit Vectors* 11:241. doi: [10.1186/s13071-018-2804-x](https://doi.org/10.1186/s13071-018-2804-x)
- [79] Al-Kappany YM, Abbas IEA, **Devleesschauwer B**, Dorny P, Jennes M, Cox E (2018) Seroprevalence of anti-*Toxoplasma gondii* antibodies in filter paper elutes from sera of Egyptian sheep and goats. *BMC Vet Res* 14:120. doi: [10.1186/s12917-018-1440-1](https://doi.org/10.1186/s12917-018-1440-1)
- [78] Trevisan C, **Devleesschauwer B**, Praet N, Pondja A, Assane YA, Dorny P, Thamsborg SM, Magnussen P, Johansen MV (2018) Assessment of the societal cost of *Taenia solium* in Angónia district, Mozambique. *BMC Infect Dis* 18:127. doi: [10.1186/s12879-018-3030-z](https://doi.org/10.1186/s12879-018-3030-z)
- [77] Hobbs EC, Mwape KE, Van Damme I, Berkvens D, Zulu G, Mambwe M, Chembensofu M, Phiri IK, Masuku M, Bottieau E, **Devleesschauwer B**, Speybroeck N, Colston A, Dorny P, Willingham III AL, Gabriël S (2018) Preliminary assessment of the computer-based *Taenia solium* educational program 'The Vicious Worm' on

- knowledge uptake in primary school children in rural areas in eastern Zambia. *Trop Med Int Health* 23:306-314. doi: [10.1111/tmi.13029](https://doi.org/10.1111/tmi.13029)
- [76] Bouwknegt M, **Devleesschauwer B**, Graham H, Robertson LJ, van der Giessen J, EURO-FBP Workshop Participants (2018) Prioritisation of food-borne parasites in Europe, 2016. *Euro Surveill* 23:17-00161. doi: [10.2807/1560-7917.ES.2018.23.9.17-00161](https://doi.org/10.2807/1560-7917.ES.2018.23.9.17-00161)
- [75] Moyersoen I, Lachat C, Cuypers K, De Ridder K, **Devleesschauwer B**, Tafforeau J, Vandevijvere S, Vansteeland M, De Meulenaer B, Van Camp J, Van Oyen H (2018) Do current fortification and supplementation programs assure adequate intake of fat-soluble vitamins in Belgian infants, toddlers, pregnant women, and lactating women? *Nutrients* 10:223. doi: [10.3390/nu10020223](https://doi.org/10.3390/nu10020223)
- [74] Hobbs EC, Mwape KE, **Devleesschauwer B**, Gabriël S, Chembensofu M, Mambwe M, Phiri IK, Masuku M, Zulu G, Colston A, Willingham III AL, Berkvens D, Dorny P, Bottieau E, Speybroeck N (2018) *Taenia solium* from a community perspective: preliminary costing data in the Katete and Sinda districts in eastern Zambia. *Vet Parasitol* 251:63-67. doi: [10.1016/j.vetpar.2018.01.001](https://doi.org/10.1016/j.vetpar.2018.01.001)
- [73] Mfueni E, **Devleesschauwer B**, Van Malderen C, Rosas-Aguirre A, Brandt P, Dorsey G, Ogutu B, Snow RW, Tshilolo L, Zurovac D, Vanderelst D, Speybroeck N (2018) True malaria prevalence in children under five: Bayesian estimation using data of malaria household surveys from three sub-Saharan countries. *Malar J* 17:65. doi: [10.1186/s12936-018-2211-y](https://doi.org/10.1186/s12936-018-2211-y)
- [72] Maertens de Noordhout C, **Devleesschauwer B**, Salomon JA, Turner H, Cassini A, Colzani E, Speybroeck N, Polinder S, Kretzschmar ME, Havelaar AH, Haagsma JA (2018) Disability weights for infectious diseases in four European countries: comparison between countries and across respondent characteristics. *Eur J Public Health* 28:124-133. doi: [10.1093/eurpub/ckx090](https://doi.org/10.1093/eurpub/ckx090)
- [71] Asale A, Duchateau L, **Devleesschauwer B**, Huisman G, Yewhalaw D (2017) Zooprophylaxis as a malaria control strategy for *Anopheles arabiensis*: a systematic review. *Infect Dis Poverty* 6:160. doi: [10.1186/s40249-017-0366-3](https://doi.org/10.1186/s40249-017-0366-3)
- [70] **Devleesschauwer B**, Bouwknegt M, Dorny P, Gabriël S, Havelaar AH, Quoilin S, Robertson LJ, Speybroeck N, Torgerson PR, van der Giessen JWB, Trevisan C (2017) Risk ranking of foodborne parasites: state of the art. *Food Waterborne Parasitol* 8-9:1-13. doi: [10.1016/j.fawpar.2017.11.001](https://doi.org/10.1016/j.fawpar.2017.11.001)
- [69] Mwelma C, Mwape KE, Van Damme I, Hobbs E, Phiri IK, Masuku M, Zulu G, Colston A, Willingham AL, **Devleesschauwer B**, Van Hul A, Chota A, Speybroeck N, Berkvens D, Dorny P, Gabriël S (2017) Re-visiting the detection of porcine cysticercosis based on full carcass dissections of naturally *Taenia solium* infected pigs. *Parasit Vectors* 10:572. doi: [10.1186/s13071-017-2520-y](https://doi.org/10.1186/s13071-017-2520-y)

- [68] Gómez-Morales MA, Gárate T, Blocher J, **Devleesschauwer B**, Smit GSA, Schmidt V, Pereguer MJ, Ludovisi A, Pozio E, Dorny P, Gabriël S, Winkler AS (2017) Present status of laboratory diagnosis of human taeniosis/cysticercosis in Europe. *Eur J Clin Microbiol Infect Dis* 36:2029-2040. doi: [10.1007/s10096-017-3029-1](https://doi.org/10.1007/s10096-017-3029-1)
- [67] Renard F, **Devleesschauwer B**, Gadeyne S, Tafforeau J, Deboosere P (2017) Educational inequalities in premature mortality by region in the Belgian population in the 2000s. *Arch Public Health* 75:44. doi: [10.1186/s13690-017-0212-x](https://doi.org/10.1186/s13690-017-0212-x)
- [66] Charafeddine R, Demarest S, Cleemput I, Van Oyen H, **Devleesschauwer B** (2017) Gender and educational differences in the association between smoking and health-related quality of life in Belgium. *Prev Med* 105:280-286. doi: [10.1016/j.ypmed.2017.09.016](https://doi.org/10.1016/j.ypmed.2017.09.016)
- [65] Maertens de Noordhout C, **Devleesschauwer B**, Haagsma JA, Havelaar AH, Bertrand S, Vandenberg O, Quoilin S, Brandt PT, Speybroeck N (2017) Burden of salmonellosis, campylobacteriosis and listeriosis: a time series analysis, Belgium, 2012 to 2020. *Euro Surveill* 22:30615. doi: [10.2807/1560-7917.ES.2017.22.38.30615](https://doi.org/10.2807/1560-7917.ES.2017.22.38.30615)
- [64] Braae UC, **Devleesschauwer B**, Sithole F, Wang Z, Willingham AL (2017) Mapping occurrence of *Taenia solium* taeniosis/cysticercosis and areas at risk of porcine cysticercosis in Central America and the Caribbean basin. *Parasit Vectors* 10:424. doi: [10.1186/s13071-017-2362-7](https://doi.org/10.1186/s13071-017-2362-7)
- [63] Hoffmann S, **Devleesschauwer B**, Aspinall W, Cooke R, Corrigan T, Havelaar AH, Angulo FJ, Gibb HJ, Kirk MD, Lake RJ, Speybroeck N, Torgerson PR, Hald T (2017) Attribution of global foodborne disease to specific foods: Findings from a World Health Organization structured expert elicitation. *PLOS ONE* 12:e0183641. doi: [10.1371/journal.pone.0183641](https://doi.org/10.1371/journal.pone.0183641)
- [62] **Devleesschauwer B**, Marvasi M, Giurcanu MC, Hochmuth GJ, Speybroeck N, Havelaar AH, Teplitski M (2017) High relative humidity pre-harvest reduces post-harvest proliferation of *Salmonella* in tomatoes. *Food Microbiol* 66:55-63. doi: [10.1016/j.fm.2017.04.003](https://doi.org/10.1016/j.fm.2017.04.003)
- [61] Smit GSA, Padalko E, Van Acker J, Hens N, Dorny P, Speybroeck N, **Devleesschauwer B** (2017) The public health impact of congenital toxoplasmosis and cytomegalovirus infection in Belgium. *Clin Infect Dis* 65:661-668. doi: [10.1093/cid/cix344](https://doi.org/10.1093/cid/cix344)
- [60] Moyersoen I, **Devleesschauwer B**, Dekkers A, De Ridder K, Tafforeau J, Van Camp J, Van Oyen H, Lachat C (2017) Intake of fat-soluble vitamins in the Belgian population: adequacy and contribution of foods, fortified foods and supplements. *Nutrients* 9:860. doi: [10.3390/nu9080860](https://doi.org/10.3390/nu9080860)
- [59] Laranjo-González M, **Devleesschauwer B**, Trevisan C, Allepuz A, Sotiraki S, Abraham A, Boaventura Afonso M, Blocher J, Cardoso L, Manuel Correia da Costa J, Dorny P, Gabriël S, Gomes J, Ángeles Gómez-Morales M, Jokelainen P, Kaminiski M, Krt B, Magnussen P, Robertson LJ, Schmidt V, Schmutzhard E, Smit SA,

- Šoba B, Stensvold CR, Staric J, Troell K, Vergles Rataj A, Vieira-Pinto M, Vilhena M, Wardrop NA, Winkler AS, Dermauw V (2017) Epidemiology of taeniosis/cysticercosis in Europe, a systematic review: Western Europe. *Parasit Vectors* 10:349. doi: [10.1186/s13071-017-2280-8](https://doi.org/10.1186/s13071-017-2280-8)
- [58] Smit GSA, Vu Thi Lam B, Do Trung D, Speybroeck N, **Devleesschauwer B**, Padalko E, Roets E, Dorny P (2017) Prenatal diagnosis and prevention of toxoplasmosis in pregnant women in Northern Vietnam: study protocol. *BMC Infect Dis* 17:364. doi: [10.1186/s12879-017-2446-1](https://doi.org/10.1186/s12879-017-2446-1)
- [57] Renard F, Gadeyne S, **Devleesschauwer B**, Tafforeau J, De Boosere P (2017) Trends in educational inequalities in premature mortality in Belgium between the 1990s and the 2000s: the contribution of specific causes of deaths. *J Epidemiol Community Health* 71:371-380. doi: [10.1136/jech-2016-208370](https://doi.org/10.1136/jech-2016-208370)
- [56] Maertens de Noordhout C, **Devleesschauwer B**, Gielens L, Plasmans MHD, Haagsma JA, Speybroeck N (2017) Mapping EQ-5D utilities to GBD 2010 and GBD 2013 disability weights: results of two pilot studies in Belgium. *Arch Public Health* 75:6. doi: [10.1186/s13690-017-0174-z](https://doi.org/10.1186/s13690-017-0174-z)
- [55] Steckling N, **Devleesschauwer B**, Winkelkemper J, Fischer F, Ericson B, Krämer A, Hornberg C, Fuller R, Plass D, Bose-O'Reilly S (2017) Disability weights for chronic mercury intoxication resulting from gold mining activities: results from an online pairwise comparisons survey. *Int J Environ Res Public Health* 14:57. doi: [10.3390/ijerph14010057](https://doi.org/10.3390/ijerph14010057)
- [54] Smit GSA, Apers L, Arrazole de Onate W, Beutels P, Dorny P, Forier A-M, Janssens K, Macq J, Mak R, Schol S, Wildemeersch D, Speybroeck N, **Devleesschauwer B** (2017) Cost-effectiveness of screening for active cases of tuberculosis in Flanders, Belgium. *Bull World Health Org* 95:27-35. doi: [10.2471/BLT.16.169383](https://doi.org/10.2471/BLT.16.169383)
- [53] **Devleesschauwer B**, Allepuz A, Dermauw V, Johansen MV, Laranjo-González M, Smit GSA, Sotiraki S, Trevisan C, Wardrop NA, Dorny P, Gabriël S (2017) *Taenia solium* in Europe: still endemic? *Acta Trop* 165:96-99. doi: [10.1016/j.actatropica.2015.08.006](https://doi.org/10.1016/j.actatropica.2015.08.006)
- [52] Trevisan C, **Devleesschauwer B**, Schmidt V, Winkler AS, Harrison W, Johansen MV (2017) The societal cost of *Taenia solium* cysticercosis in Tanzania. *Acta Trop* 165:141-154. doi: [10.1016/j.actatropica.2015.12.021](https://doi.org/10.1016/j.actatropica.2015.12.021)
- [51] Braae UC, **Devleesschauwer B**, Gabriël S, Dorny P, Speybroeck N, Magnussen P, Torgerson P, Johansen MV (2016) cystiSim—an agent-based model for *Taenia solium* transmission and control. *PLOS Negl Trop Dis* 10:e0005184. doi: [10.1371/journal.pntd.0005184](https://doi.org/10.1371/journal.pntd.0005184)
- [50] McDonald SA, **Devleesschauwer B**, Wallinga J (2016) The impact of individual-level heterogeneity on estimated infectious disease burden: a simulation study. *Popul Health Metr* 14:47. doi: [10.1186/s12963-016-0116-y](https://doi.org/10.1186/s12963-016-0116-y)

- [49] McKenzie JS, Dahal R, Kakkar M, Debnath N, Rahman M, Dorjee S, Naeem K, Wijayathilaka T, Sharma B, Maidanwal N, Halimi A, Kim E, Chatterjee P, **Devleesschauwer B** (2016) One Health research and training and government support for One Health in South Asia. *Infect Ecol Epidemiol* 6:33842. doi: [10.3402/iee.v6.33842](https://doi.org/10.3402/iee.v6.33842)
- [48] van de Velde N, **Devleesschauwer B**, Leopold M, Begeman L, Ijsseldijk LL, Hiemstra S, Ijzer J, Brownlow A, Davison N, Haelters J, Jauniaux T, Siebert U, Dorny P, De Craeye S (2016) *Toxoplasma gondii* in stranded marine mammals from the North Sea and Eastern Atlantic Ocean: findings and diagnostic difficulties. *Vet Parasitol* 230:25-32. doi: [10.1016/j.vetpar.2016.10.021](https://doi.org/10.1016/j.vetpar.2016.10.021)
- [47] Tromme I, Legrand C, **Devleesschauwer B**, Leiter U, Suciú S, Eggermont A, Sacré L, Baurain J-F, Thomas L, Beutels P, Speybroeck N (2016) Cost-effectiveness analysis in melanoma detection: a transition model applied to dermoscopy. *Eur J Cancer* 67:38-45. doi: [10.1016/j.ejca.2016.07.020](https://doi.org/10.1016/j.ejca.2016.07.020)
- [46] Maertens de Noordhout C, **Devleesschauwer B**, Maertens de Noordhout A, Blocher J, Haagsma JA, Havelaar AH, Speybroeck N (2016) Comorbidities and factors associated with central nervous system infections and death in non-perinatal listeriosis: a clinical case series. *BMC Infect Dis* 16:256. doi: [10.1186/s12879-016-1602-3](https://doi.org/10.1186/s12879-016-1602-3)
- [45] Robertson LJ, **Devleesschauwer B**, de Noya BA, Noya González O, Torgerson PR (2016) *Trypanosoma cruzi*—time for international recognition as a foodborne pathogen. *PLOS Negl Trop Dis* 10:e0004656. doi: [10.1371/journal.pntd.0004656](https://doi.org/10.1371/journal.pntd.0004656)
- [44] Sharma BK, Manandhar S, **Devleesschauwer B** (2016) Serological evidence of type 2 (North American genotype) porcine reproductive and respiratory syndrome virus in Nepal. *Trop Anim Health Prod* 48:663-666. doi: [10.1007/s11250-015-0986-1](https://doi.org/10.1007/s11250-015-0986-1)
- [43] **Devleesschauwer B**, Aryal A, Sharma BK, Ale A, Declercq A, Depraz S, Gaire TN, Gongal G, Karki S, Pandey BD, Pun SB, Duchateau L, Dorny P, Speybroeck N (2016) Epidemiology, impact and control of rabies in Nepal: a systematic review. *PLOS Negl Trop Dis* 10:e0004461. doi: [10.1371/journal.pntd.0004461](https://doi.org/10.1371/journal.pntd.0004461)
- [42] Laranjo-González M, **Devleesschauwer B**, Gabriél S, Dorny P, Allepuz A (2016) Epidemiology, impact and control of bovine cysticercosis in Europe: a systematic review. *Parasit Vectors* 9:81. doi: [10.1186/s13071-016-1362-3](https://doi.org/10.1186/s13071-016-1362-3)
- [41] Hoffmann S, Aspinall W, Cooke R, Cawthorne A, Corrigan T, Havelaar A, Gibb H, Torgerson P, Kirk M, Angulo F, Lake R, Speybroeck N, **Devleesschauwer B**, Hald T (2016) Research synthesis methods in an age of globalized risks: Lessons from the global burden of foodborne disease expert elicitation. *Risk Anal* 36:191-202. doi: [10.1111/risa.12385](https://doi.org/10.1111/risa.12385)
- [40] Hald T, Aspinall T, **Devleesschauwer B**, Cooke R, Corrigan T, Havelaar AH, Gibb HJ, Torgerson PR, Kirk MD, Angulo FJ, Lake RJ, Speybroeck N, Hoffmann S (2016) World Health Organization estimates of the relative contributions of food

- to the burden of disease due to selected foodborne hazards: a structured expert elicitation. *PLOS ONE* 11:e0145839. doi: [10.1371/journal.pone.0145839](https://doi.org/10.1371/journal.pone.0145839)
- [39] Tromme I, Legrand C, **Devleesschauwer B**, Leiter U, Suciu S, Eggermont A, Francart J, Calay F, Haagsma JA, Baurain J-F, Thomas L, Beutels P, Speybroeck N (2016) Melanoma burden by melanoma stage: assessment through a disease transition model. *Eur J Cancer* 53:33-41. doi: [10.1016/j.ejca.2015.09.016](https://doi.org/10.1016/j.ejca.2015.09.016)
 - [38] Tigre W, Deresa B, Haile A, Gabriël S, Victor B, Van Pelt J, **Devleesschauwer B**, Vercruyse J, Dorny P (2016) Molecular characterisation of *Echinococcus granulosus* s.l. cysts from cattle, camels, goats and pigs in Ethiopia. *Vet Parasitol* 215:17-21. doi: [10.1016/j.vetpar.2015.10.022](https://doi.org/10.1016/j.vetpar.2015.10.022)
 - [37] Pires SM, Fischer-Walker CL, Lanata CF, **Devleesschauwer B**, Hall AJ, Kirk MD, Duarte ASR, Black RE, Angulo FJ (2015) Aetiology-specific estimates of the global and regional incidence and mortality of diarrhoeal diseases commonly transmitted through food. *PLOS ONE* 10:e0142927. doi: [10.1371/journal.pone.0142927](https://doi.org/10.1371/journal.pone.0142927)
 - [36] **Devleesschauwer B**, Haagsma JA, Angulo FJ, Bellinger DC, Cole D, Döpfer D, Fazil A, Fèvre EM, Gibb H, Hald T, Kirk MD, Lake RJ, Maertens de Noordhout C, Mathers CD, McDonald SA, Pires SM, Speybroeck N, Thomas MK, Torgerson PR, Wu F, Havelaar AH, Praet N (2015) Methodological framework for World Health Organization estimates of the global burden of foodborne disease. *PLOS ONE* 10:e0142498. doi: [10.1371/journal.pone.0142498](https://doi.org/10.1371/journal.pone.0142498)
 - [35] Lake R, **Devleesschauwer B**, Nasinyama G, Havelaar A, Kuchenmüller T, Haagsma J, Jensen H, Jessani N, Maertens de Noordhout C, Angulo F, Ehiri J, Molla L, Agaba F, Aungkulanon S, Kumagai Y, Speybroeck N (2015) National studies as a component of the World Health Organization initiative to estimate the global and regional burden of foodborne disease. *PLOS ONE* 10:e0140319. doi: [10.1371/journal.pone.0140319](https://doi.org/10.1371/journal.pone.0140319)
 - [34] Torgerson PR, **Devleesschauwer B**, Praet N, Speybroeck N, Willingham AL, Kasuga F, Rokni MB, Zhou X-N, Fèvre E, Sripa B, Gargouri N, Fürst T, Budke CM, Carabin H, Kirk MD, Angulo FJ, Havelaar AH, de Silva N (2015) World Health Organization estimates of the global and regional disease burden of 11 foodborne parasitic diseases, 2010: a data synthesis. *PLoS Med* 12:e1001920. doi: [10.1371/journal.pmed.1001920](https://doi.org/10.1371/journal.pmed.1001920)
 - [33] Kirk MD, Pires SM, Black RE, Caipo M, Crump JA, **Devleesschauwer B**, Döpfer D, Fazil A, Fischer-Walker CL, Hald T, Hall AJ, Keddy KH, Lake R, Lanata CF, Torgerson PR, Havelaar AH, Angulo FJ (2015) World Health Organization estimates of the global and regional disease burden of 22 foodborne bacterial, protozoal and viral diseases, 2010: a data synthesis. *PLoS Med* 12:e1001921. doi: [10.1371/journal.pmed.1001921](https://doi.org/10.1371/journal.pmed.1001921)

- [32] Gibb HJ, **Devleesschauwer B**, Bolger PM, Wu F, Ezendam J, Cliff J, Zeilmaker M, Verger P, Pitt J, Baines J, Adegoke G, Afshari R, Liu Y, Bokkers B, van Loveren H, Mengelers M, Havelaar A, Bellinger D (2015) World Health Organization estimates of the global and regional disease burden of four foodborne chemical toxins, 2010: a data synthesis. *F1000 Research* 4:1393. doi: [10.12688/f1000research.7340.1](https://doi.org/10.12688/f1000research.7340.1)
- [31] Havelaar AH, Kirk MD, Torgerson PR, Gibb H, Hald T, Lake RJ, Praet N, Angulo FJ, Bellinger DC, De Silva NR, Gargouri N, Speybroeck N, Cawthorne A, Mathers C, Stein C, **Devleesschauwer B** (2015) World Health Organization global estimates and regional comparisons of the burden of foodborne disease, 2010. *PLoS Med* 12:e1001923. doi: [10.1371/journal.pmed.1001923](https://doi.org/10.1371/journal.pmed.1001923)
- [30] Salomon JA, Haagsma JA, Davis A, Maertens de Noordhout C, Polinder S, Havelaar AH, Cassini A, **Devleesschauwer B**, Kretzschmar M, Speybroeck N, Murray CJ, Vos T (2015) Disability weights for the Global Burden of Disease 2013 study. *Lancet Glob Health* 3:712-723. doi: [10.1016/S2214-109X\(15\)00069-8](https://doi.org/10.1016/S2214-109X(15)00069-8)
- [29] Gabriël S, Johansen MV, Pozio E, Smit S, **Devleesschauwer B**, Allepuz A, Dorny P (2015) Human migration and pig/pork import in the European Union: what are the implications for *Taenia solium* infections? *Vet Parasitol* 213:38-45. doi: [10.1016/j.vetpar.2015.03.006](https://doi.org/10.1016/j.vetpar.2015.03.006)
- [28] Braae UC, Saarnak CF, Mukaratirwa S, **Devleesschauwer B**, Magnussen P, Johansen MV (2015) *Taenia solium* taeniosis/cysticercosis and the co-distribution with schistosomiasis in Africa. *Parasit Vectors* 8:323. doi: [10.1186/s13071-015-0938-7](https://doi.org/10.1186/s13071-015-0938-7)
- [27] **Devleesschauwer B**, Smit GSA, Dorny P, van der Giessen JW, Gabriël S (2015) Neurocysticercosis in Europe: need for a one health approach [Letter to the Editor]. *Neuropediatrics* 46:354-355. doi: [10.1055/s-0035-1558437](https://doi.org/10.1055/s-0035-1558437)
- [26] Dorny P, **Devleesschauwer B**, Stoliaroff V, Meas S, Chea R, Chea B, Sourloing H, Samuth S, Kong S, Nguong K, Sorn S, Holl D, Vercruysse J (2015) Prevalence and associated risk factors of *Toxocara vitulorum* infections in buffalo and cattle calves in central Cambodia. *Korean J Parasitol* 53:197-200. doi: [10.3347/kjp.2015.53.2.197](https://doi.org/10.3347/kjp.2015.53.2.197)
- [25] Gowda TK, Reddy VR, **Devleesschauwer B**, Zade N, Chaudhari S, Khan W, Shinde S, Patil A (2015) Isolation and seroprevalence of *Aeromonas* spp. among common food animals slaughtered in Nagpur, Central India. *Foodborne Pathog Dis* 12:626-630. doi: [10.1089/fpd.2014.1922](https://doi.org/10.1089/fpd.2014.1922)
- [24] Haagsma JA, Maertens de Noordhout C, Polinder S, Vos T, Havelaar AH, Cassini A, **Devleesschauwer B**, Kretzschmar M, Speybroeck N, Salomon JA (2015) Assessing disability weights based on the responses of 30,660 people from four European countries. *Popul Health Metr* 13:10. doi: [10.1186/s12963-015-0042-4](https://doi.org/10.1186/s12963-015-0042-4)

- [23] McDonald SA, **Devleesschauwer B**, Speybroeck N, Hens N, Praet N, Torgerson PR, Havelaar AH, Wu F, Tremblay M, Amene EW, Döpfer D (2015) Data-driven methods for imputing national-level incidence rates in global burden of disease studies. *Bull World Health Org* 93:228-236. doi: [10.2471/BLT.14.139972](https://doi.org/10.2471/BLT.14.139972)
- [22] Speybroeck N, **Devleesschauwer B**, Depoorter P, Dewulf J, Berkvens D, Van Huffel X, Saegerman C (2015) Needs and expectations regarding risk ranking in the food chain: a pilot survey amongst decision makers and stakeholders. *Food Control* 54:135-143. doi: [10.1016/j.foodcont.2014.12.041](https://doi.org/10.1016/j.foodcont.2014.12.041)
- [21] **Devleesschauwer B**, Praet N, Speybroeck N, Torgerson PR, Haagsma JA, De Smet K, Murrell D, Pozio E, Dorny P (2015) The low global burden of trichinellosis: evidence and implications. *Int J Parasitol* 45:95-99. doi: [10.1016/j.ijpara.2014.05.006](https://doi.org/10.1016/j.ijpara.2014.05.006)
- [20] Tromme I, **Devleesschauwer B**, Beutels P, Richez P, Leroy A, Baurain JF, Cornélis F, Bertrand C, Legrand N, Degueudre J, Thomas L, Legrand C, Haagsma JA, Speybroeck N (2014) Health-related quality of life in patients with melanoma expressed as utilities and disability weights. *Br J Dermatol* 171:1443-1450. doi: [10.1111/bjd.13262](https://doi.org/10.1111/bjd.13262)
- [19] **Devleesschauwer B**, Maertens de Noordhout C, Smit GSA, Duchateau L, Dorny P, Stein C, Van Oyen H, Speybroeck N (2014) Quantifying burden of disease to support public health policy in Belgium: opportunities and constraints. *BMC Public Health* 14:1196. doi: [10.1186/1471-2458-14-1196](https://doi.org/10.1186/1471-2458-14-1196)
- [18] Tromme I, **Devleesschauwer B**, Beutels P, Richez P, Praet N, Sacré L, Marot L, Van Eeckhout P, Theate I, Baurain JF, Thomas L, Speybroeck N (2014) Selective use of digital dermoscopy allows a cost reduction in the melanoma detection process: a Belgian study of patients with a single or a small number of atypical nevi. *PLOS One* 9:e109339. doi: [10.1371/journal.pone.0109339](https://doi.org/10.1371/journal.pone.0109339)
- [17] Maertens de Noordhout C, **Devleesschauwer B**, Angulo FJ, Verbeke G, Haagsma J, Kirk M, Havelaar A, Speybroeck N (2014) The global burden of listeriosis: a systematic review and meta-analysis. *Lancet Infect Dis* 14:1073-1082. doi: [10.1016/S1473-3099\(14\)70870-9](https://doi.org/10.1016/S1473-3099(14)70870-9)
- [16] Coral-Almeida M, Rodríguez-Hidalgo R, Celi-Erazo M, García HH, Rodríguez S, Benítez-Ortiz W, **Devleesschauwer B**, Dorny P, Praet N (2014) Incidence and transmission dynamics of human cysticercosis in a *Taenia solium* Ecuadorian endemic area: implications for disease burden assessment and control. *PLOS Negl Trop Dis* 8:e2887. doi: [10.1371/journal.pntd.0002887](https://doi.org/10.1371/journal.pntd.0002887)
- [15] **Devleesschauwer B**, Havelaar AH, Maertens de Noordhout C, Haagsma JA, Praet N, Dorny P, Duchateau L, Torgerson PR, Van Oyen H, Speybroeck N (2014) DALY calculation in practice: a stepwise approach. *Int J Public Health* 59:571-574. doi: [10.1007/s00038-014-0553-y](https://doi.org/10.1007/s00038-014-0553-y)

- [14] **Devleesschauwer B**, Havelaar AH, Maertens de Noordhout C, Haagsma JA, Praet N, Dorny P, Duchateau L, Torgerson PR, Van Oyen H, Speybroeck N (2014) Calculating disability-adjusted life years to quantify burden of disease. *Int J Public Health* 59:565-569. doi: [10.1007/s00038-014-0552-z](https://doi.org/10.1007/s00038-014-0552-z)
- [13] Henrard S, **Devleesschauwer B**, Beutels P, Callens M, De Smet F, Hermans C, Speybroeck N (2014) The health and economic burden of haemophilia in Belgium: a rare, expensive and challenging disease. *Orphanet J Rare Dis* 9:39. doi: [10.1186/1750-1172-9-39](https://doi.org/10.1186/1750-1172-9-39)
- [12] Ale A, Victor B, Praet N, Gabriël S, Speybroeck N, Dorny P, **Devleesschauwer B** (2014) Epidemiology and genetic diversity of *Taenia asiatica*: a systematic review. *Parasit Vectors* 7:45. doi: [10.1186/1756-3305-7-45](https://doi.org/10.1186/1756-3305-7-45)
- [11] **Devleesschauwer B**, Ale A, Torgerson P, Praet N, Maertens de Noordhout C, Pandey BD, Pun SB, Lake R, Vercruysse J, Joshi DD, Havelaar AH, Duchateau L, Dorny P, Speybroeck N (2014) The burden of parasitic zoonoses in Nepal: a systematic review. *PLOS Negl Trop Dis* 8:e2634. doi: [10.1371/journal.pntd.0002634](https://doi.org/10.1371/journal.pntd.0002634)
- [10] **Devleesschauwer B**, Pruvot M, Joshi DD, De Craeye S, Jennes M, Ale A, Welinski A, Lama S, Aryal A, Victor B, Duchateau L, Speybroeck N, Vercruysse J, Dorny P (2013) Seroprevalence of zoonotic parasites in pigs slaughtered in the Kathmandu Valley of Nepal. *Vector Borne Zoonotic Dis* 13:872-876. doi: [10.1089/vbz.2013.1313](https://doi.org/10.1089/vbz.2013.1313)
- [9] Speybroeck N, Van Malderen C, Harper S, Müller B, **Devleesschauwer B** (2013) Simulation models for socioeconomic inequalities in health: a systematic review. *Int J Environ Res Public Health* 10:5750-5780. doi: [10.3390/ijerph10115750](https://doi.org/10.3390/ijerph10115750)
- [8] Speybroeck N, **Devleesschauwer B**, Joseph L, Berkvens D (2013) Misclassification errors in prevalence estimation: Bayesian handling with care. *Int J Public Health* 58:791-795. doi: [10.1007/s00038-012-0439-9](https://doi.org/10.1007/s00038-012-0439-9)
- [7] Kanobana K, **Devleesschauwer B**, Polman K, Speybroeck N (2013) An agent-based model of exposure to human toxocariasis: a multi-country validation. *Parasitology* 140:986-998. doi: [10.1017/S0031182013000310](https://doi.org/10.1017/S0031182013000310)
- [6] **Devleesschauwer B**, Ale A, Duchateau L, Dorny P, Lake R, Dhakal P, Pun SB, Pandey BD, Speybroeck N (2013) Understanding the burden of disease in Nepal: a call for local evidence. *J Nepal Health Res Counc* 11:221-224
- [5] **Devleesschauwer B**, Aryal A, Tharmalingam J, Joshi DD, Rijal S, Speybroeck N, Gabriël S, Victor B, Dorny P (2013) Complexities in using sentinel pigs to study *Taenia solium* transmission dynamics under field conditions. *Vet Parasitol* 193:172-178. doi: [10.1016/j.vetpar.2012.12.010](https://doi.org/10.1016/j.vetpar.2012.12.010)
- [4] Speybroeck N, Williams CJ, Lafia KB, **Devleesschauwer B**, Berkvens D (2012) Estimating the prevalence of infections in vector populations using pools of samples. *Med Vet Entomol* 26:361-371. doi: [10.1111/j.1365-2915.2012.01015.x](https://doi.org/10.1111/j.1365-2915.2012.01015.x)

- [3] **Devleesschauwer B**, Aryal A, Joshi DD, Rijal S, Sherchand JB, Praet N, Speybroeck N, Duchateau L, Vercruysse J, Dorny P (2012) Epidemiology of *Taenia solium* in Nepal: is it influenced by the social characteristics of the population and the presence of *Taenia asiatica*? *Trop Med Int Health* 17:1019-1022. doi: [10.1111/j.1365-3156.2012.03017.x](https://doi.org/10.1111/j.1365-3156.2012.03017.x)
- [2] Charlier J, Levecke B, **Devleesschauwer B**, Vercruysse J, Hogeveen H (2012) The economic effects of whole-herd versus selective anthelmintic treatment strategies in dairy cows. *J Dairy Sci* 95:2977-2987. doi: [10.3168/jds.2011-4719](https://doi.org/10.3168/jds.2011-4719)
- [1] Pant B, **Devleesschauwer B**, Shrestha P, Shrestha I, Praet N, Dorny P (2011) Intraventricular *Taenia solium* neurocysticercosis: a report of three cases. *JNMA J Nepal Med Assoc* 51:192-195

7.3 Submitted manuscripts

- [14] Santos JV, Gorasso V, Souza J, Wyper GMA, Grant I, Pinheiro V, Viana J, Ricciardi W, Haagsma JA, **Devleesschauwer B**, Plass D, Freitas A. Risk factors and their contribution to population health in the European Union (EU-28) countries in 2007 and 2017. *Eur J Epidemiol*
- [13] 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**. Belgian population norms for the EQ-5D-5L, 2013 and 2018. *Qual Life Res*
- [12] Van Goethem N, Robert A, Bossuyt N, Van Poelvoorde L, Quoilin S, De Keersmaecker SCJ, **Devleesschauwer B**, Thomas I, Vanneste K, Roosens NHC, Van Oyen H. Evaluation of the added value of viral genomic information for predicting severity of influenza infection. *Eur J Epidemiol*
- [11] Van der Heyden J, Berete F, Renard F, Vanoverloop J, **Devleesschauwer B**, De Ridder K, Bruyère O. Assessing polypharmacy in the older population: comparison of a self-reported and prescription based method. *Pharmacoepidemiol Drug Saf*
- [10] Tshibangu-Kabamba E, Phuc BH, Tuan VP, Fauzia KA, Kabongo-Tshibaka A, Kalenda NK, Speybroeck N, Rosas-Aguirre A, **Devleesschauwer B**, de Jésus Ngoma Kisoko P, Matsumoto T, Akada J, Ngoyi DM, Kido Y, Tumba GD, Yamaoka Y. Assessment of the diagnostic accuracy and relevance of a novel ELISA system developed for seroepidemiologic surveys of *Helicobacter pylori* infection in African settings. *PLOS Negl Trop Dis*
- [9] 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*

- [8] Kayiba Kalende N, Yobi DM, Kouoneyou VRT, Mvumbi DM, Kabututu PZ, **Devleesschauwer B**, Sompwe Erick Mukomena, De Mol P, Hayette M-P, Mvumbi GL, Rosas-Aguirre A, Dikassa PL, Speybroeck N. Evaluation of the usefulness of intermittent preventive treatment of malaria in pregnancy with sulfadoxine-pyrimethamine in a context with increased resistance of *Plasmodium falciparum* in Kinshasa, Democratic Republic of Congo. *Infect Genet Evol*
- [7] Wyper GMA, Assunção RMA, 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*
- [6] Van Wilder L, **Devleesschauwer B**, Clays E, De Buyser S, Van der Heyden J, Charafeddine R, Boeckxstaens P, De Bacquer D, De Smedt D. The impact of multimorbidity patterns on health-related quality of life in the general population: results of the Belgian Health Interview Survey. *Eur J Epidemiol*
- [5] Van Baelen L, Plettinckx E, Antoine J, De Ridder K, **Devleesschauwer B**, Gremaux L. Use of health care services by people with substance use disorders in Belgium: a register-based cohort study. *Arch Public Health*
- [4] 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. Belgian COVID-19 mortality, excess deaths, number of deaths per million, and infection fatality rates (8 March – 9 May 2020). *Euro Surveill*
- [3] Pelgrims I, Bastiaens H, **Devleesschauwer B**, Guyot M, Keune H, Nawrot TS, Remmen R, Saenen N, Trabelsi S, Thomas I, De Clercq EM. Association between urban environment and mental health in Brussels, Belgium. *BMC Public Health*
- [2] Cuschieri S, Pallari E, Terzic N, Alkerwi A, Sigurvinsdottir R, Sigfusdottir ID, **Devleesschauwer B**. Conducting national burden of disease studies in small countries in Europe – A challenge or a feasibility? *Arch Public Health*
- [1] Dehanne F, Gourdin M, **Devleesschauwer B**, Bihin B, Van Wilder, Philippe, Mareschal B, Leclercq P, Pirson M. Comparison cost/DALY of hip replacement care in 12 Belgian hospitals. *BMC Health Serv Res*

7.4 Oral presentations

- [16] **Devleesschauwer B** (2017) Estimates of the global and regional burden of food-borne 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 scien-*

tific 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) Éluclidation 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, Vlamincx 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, Winkelkemper 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, Tuytens 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-system/2019/E2%80%93report-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: brechtvd’s helper functions. R package version 0.0.11. <https://github.com/brechtvd/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-from>
[php](http://news.ufl.edu/articles/2015/12/one-in-10-globally-suffer-from)
- [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
16 February 2021