

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 Wytsmanstraat 14, 1050 Brussels, Belgium | +32 2 642 5035

1 Research interests

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

2 Employment

- **Visiting professor, advanced epidemiology**, 10/2018–present
Université catholique de Louvain, Brussels, Belgium
- **Visiting professor, risk analysis**, 04/2018–present
Ghent University, Merelbeke, Belgium
- **Senior epidemiologist**, 04/2016–present
Sciensano, 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

- **Introduction to the Statistical Program to Assess Dietary Exposure (SPADE)**, 2018
RIVM & WIV-ISP, Brussels, Belgium
- **SAS Basics**, 2016
BI Knowledge Sharing
- **GBD Technical Training Workshop**, 2014
IHME (University of Washington) @ Crete, Greece
- **Advanced Academic English Conference Skills**, 2013
UCT (Ghent University), Ghent, Belgium
- **Introduction to Health Economics, Francqui Chair Pr. Annemans**, 2013
Université catholique de Louvain, Brussels, Belgium
- **Introduction to Infectious Disease Modelling and Its Applications**, 2013
LSHTM, London, UK

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

4 Professional experiences

4.1 Contributions to peer review

- **Academic Editor**, 2017–present
Food and Waterborne Parasitology
- **Academic Editor**, 2017–present
PLOS ONE
- **Associate Editor**, 2017–present
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 international projects

- **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
EU COST action TD1302 CYSTINET—www.cystinet.org
- **Risk forecasting workgroup vice-leader**, 2015–2016
EU 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

4.3 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

4.4 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.

4.5 Logistic responsibilities

4.5.1 Institutional responsibilities

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

4.5.2 Management of research centers

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

4.5.3 Organisation of national and international conferences

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

4.5.4 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 (2)

- **Lisa Van Wilder**, 2018–2022
PhD Public Health, Ghent University
Quality of life in patients with chronic disease
Promoters: Rikke Andersen; Sara Monteiro Pires, Morten Poulsen, **Brecht Devleesschauwer**
- **Sofie Theresa Thomsen**, 2016–2018
PhD Nutrition, National Food Institute, Danish Technical University
Risk-benefit assessment of whole diet
Promoters: Delphine De Smedt; Els Clays, **Brecht Devleesschauwer**

6.6 MSc students (36)

- Delphine Losseau, 2018–19
MSc Public Health, Université catholique de Louvain
The health and economic impact of low back and neck pain in Belgium (original research)
Promoter: **Devleesschauwer B**
- Ellen De Ren, 2018–19
MSc Health Care Management and Policy, Ghent University
Comparative risk assessment of alcohol use in Belgium (original research)
Promoters: De Smedt D, **Devleesschauwer B**
- Judith Ngoufo, 2018–19
MSc Public Health, Université catholique de Louvain
The burden of coronary heart disease in Belgium (original research)
Promoter: **Devleesschauwer B**
- Leen Van Doorslaer, 2018–19
MSc Health Care Management and Policy, Ghent University
Comparative risk assessment of tobacco use in Belgium (original research)
Promoters: De Smedt D, **Devleesschauwer B**
- Luna Gongal, 2018–19
MSc Tropical Animal Health, Institute of Tropical Medicine
Knowledge, attitudes and practices on rabies in Nepal (original research)
Promoters: Dorny P, **Devleesschauwer B**
- Marie Denis, 2018–19
MSc Public Health, Université catholique de Louvain
Comparative risk assessment of dietary risk factors in Belgium (original research)
Promoter: **Devleesschauwer B**

- Silke Thomas, Stephanie Marinus, 2018–19
MSc Health Care Management and Policy, Ghent University
Health impact assessment of sugar reduction in Belgium (original research)
Promoters: De Smedt D, **Devleesschauwer B**
- Korneel Van Den Driessche, 2018–19
MSc Health Care Management and Policy, Ghent University
The disease burden of vaccine-preventable diseases in Belgium (original research)
Promoters: **Devleesschauwer B**, De Smedt D
- Senne Terryn, 2018–19
MSc Health Care Management and Policy, Ghent University
The disease burden of sexually transmitted infections in Belgium (original research)
Promoters: **Devleesschauwer B**, De Smedt D
- Jinane Ghattas, 2018–19
MSc Public Health, Université catholique de Louvain
The state of health in Belgium, 1990–2017: A benchmarking analysis based on the Global Burden of Disease 2017 study (original research)
Promoter: **Devleesschauwer B**
- Aline Scohy, 2017–18
MSc Demography, Université catholique de Louvain
The impact of chronic diseases on quality of life (original research)
Promoter: **Devleesschauwer B**
- Astrid Cornez, 2017–18
MSc Public Health, Université catholique de Louvain
The disease burden of cancer in Belgium (original research)
Promoters: Speybroeck N, **Devleesschauwer B**
- Martina Otavova, 2017–18
MSc Statistics, Hasselt University
Impact of tobacco control interventions on health expectancies: use of dynamic modelling for health impact assessment in Belgium (original research)
Promoters: Molenberghs G, **Devleesschauwer B**
- Orchina Hanna, 2017–18
MSc Public Health, Université catholique de Louvain
Relations entre dénutrition et dépendances fonctionnelles chez les résidents d’une maison de repos et de soins (original research)
Promoters: Boland B, **Devleesschauwer B**
- Steff De Smet, 2017–18
MSc Health Care Management and Policy, Ghent University
The disease burden of cystic fibrosis in Belgium (original research)

Promoters: De Smedt D, **Devleesschauwer B**

- Thomas Pelseneer, 2017–18
MSc Public Health, Université catholique de Louvain
Self-reported morbidity and health-related quality of life in injecting drug users in Brussels, Belgium (original research)
Promoters: Nicaise P, **Devleesschauwer B**
- Angela Vega Rodriguez, 2016–17
MSc Public Health, Université catholique de Louvain
The burden of diabetes in Belgium and Spain (original research)
Promoters: Speybroeck N, **Devleesschauwer B**
- Damien Blondeau, 2016–17
MSc Veterinary Medicine, Ghent University
The disease burden of *Yersinia enterocolitica* in Belgium (original research)
Promoters: Houf K, **Devleesschauwer B**
- Jade Vincent Membrebe, 2016–17
MSc Statistics, Hasselt University
Development of an incidence-prevalence-mortality model (original research)
Promoters: Shkedy Z, **Devleesschauwer B**
- Kinda Atiyeh, 2016–17
MSc Public Health, Université catholique de Louvain
Overall and cause-specific mortality in Belgium (original research)
Promoters: Speybroeck N, **Devleesschauwer B**
- Alexia Lescart, 2015–16
MSc Public Health, Université catholique de Louvain
Socioeconomic inequalities in diarrhea in Nepal (original research)
Promoters: Speybroeck N, **Devleesschauwer B**
- Febe Vanpoucke, 2015–16
MSc Veterinary Medicine, Ghent University
Parasitic zoonoses in Ethiopia (literature review)
Promoters: **Devleesschauwer B**, Dorny P
- Louise Vanhecke, 2015–16
MSc Veterinary Medicine, Ghent University
Vector-borne diseases in Nepal (literature review)
Promoters: **Devleesschauwer B**, Dorny P
- Sara Hanna, 2015–16
MSc Public Health, Université catholique de Louvain
Burden of Crohn disease in Belgium (original research)
Promoters: Speybroeck N, **Devleesschauwer B**

- Sonia Chebac, 2015–16
MSc Public Health, Université catholique de Louvain
Clinical impact of *Giardia* (original research)
Promoters: Speybroeck N, **Devleesschauwer B**
- Eveline Jansen, 2014–15
MSc Veterinary Medicine, Ghent University
Rabies in Ethiopia (original research)
Promoters: Dorny P, **Devleesschauwer B**
- Judth Verduijn, 2014–15
MSc Veterinary Medicine, Ghent University
Tick-borne zoonoses in Belgium (literature review)
Promoters: **Devleesschauwer B**, Claerebout E
- Tom Slegh, 2014–15
MSc Veterinary Medicine, Ghent University
Diapause in *Anopheles* mosquitoes (literature review)
Promoters: Duchateau L, **Devleesschauwer B**
- Gerhardina (Gerdien) Huisman, 2013–14
MSc Veterinary Medicine, Ghent University
Zooprophylaxis: a malaria control strategy (original research)
Promoters: Duchateau L, Yewhalaw D, **Devleesschauwer B**
- Joke Yzerwyn, 2013–14
MSc Veterinary Medicine, Ghent University
Opisthorchis spp. in South-East Asia (literature review)
Promoters: Dorny P, **Devleesschauwer B**
- Norbert van de Velde, 2013–14
MSc Veterinary Medicine, Ghent University
Toxoplasmosis in marine mammals (original research)
Promoters: Dorny P, **Devleesschauwer B**
- Eveline Jansen, 2012–13
MSc Veterinary Medicine, Ghent University
Rabies in Ethiopia (literature review)
Promoters: Dorny P, **Devleesschauwer B**
- Gerhardina (Gerdien) Huisman, 2012–13
MSc Veterinary Medicine, Ghent University
Zooprophylaxis: a malaria control strategy (literature review)
Promoters: Duchateau L, Yewhalaw D, **Devleesschauwer B**
- Norbert van de Velde, 2012–13
MSc Veterinary Medicine, Ghent University

Toxoplasmosis in marine mammals (literature review)

Promoters: Dorny P, **Devleesschauwer B**

- Jani Van Pelt, 2011–12
MSc Veterinary Medicine, Ghent University
Echinococcosis in Ethiopia (original research)
Promoters: Dorny P, **Devleesschauwer B**
- Rudolf Spiekers, 2011–12
MSc Veterinary Medicine, Ghent University
Toxoplasmosis in wild felids (literature review)
Promoters: Dorny P, **Devleesschauwer B**

6.7 BSc students (8)

- Carolina De La Rosa Mateo, 2015–16
BSc Health Sciences, University of Florida
Burden of free-living protozoa in the USA (original research)
Promoter: **Devleesschauwer B**
- Natalie Bonilla, 2015–16
BSc Health Sciences, University of Florida
Toxoplasma gondii risk in different food items (original research)
Promoter: **Devleesschauwer B**
- Ziqi Wang, 2015–16
BSc Biochemistry, University of Florida
Epidemiology of *Taenia solium* in Central America (original research)
Promoter: **Devleesschauwer B**
- Jolien De Keulenaer, 2014–15
BSc Biomedical Sciences, Antwerp University
Taenia saginata taeniosis/cysticercosis in Belgium (literature review)
Promoters: **Devleesschauwer B**, Smit S
- Liene Bossaerts, 2013–14
BSc Biomedical Sciences, Antwerp University
Lyme disease in the Benelux (literature review)
Promoters: **Devleesschauwer B**, Speybroeck N
- Nina Redzic, 2012–13
BSc Biomedical Sciences, Antwerp University
Neurological symptoms of toxoplasmosis in adults (literature review)
Promoters: **Devleesschauwer B**, Speybroeck N
- Yannick Van der Venne, 2012–13
BSc Biomedical Sciences, Antwerp University

Listeriosis in Belgium (literature review)

Promoters: **Devleesschauwer B**, Speybroeck N

- Anne Declercq, 2011–12
BSc Biomedical Sciences, Antwerp University
Rabies in Nepal (literature review)
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

- [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**, Bouwknegt M, Mangen M-JJ, Havelaar AH (2017) Health and Economic Burden of Campylobacter. In: Klein G (ed) *Campylobacter: Features, Detection, and Prevention of Foodborne Disease*, pp 27-40. doi: [10.1016/B978-0-12-803623-5.00002-2](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: 2832 citations · h-index 25 · i10-index 53

- [110] Smit GSA, Abrams S, Dorny P, Speybroeck N, **Devleesschauwer B**, Hutse V, Janssens 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*, in press
- [109] 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*, in press
- [108] Carrington C, **Devleesschauwer B**, Gibb HJ, Bolger PM (2019) Global burden of intellectual disability resulting from dietary exposure to lead, 2015. *Environ Res*, in press. doi: [10.1016/j.envres.2019.02.023](https://doi.org/10.1016/j.envres.2019.02.023)
- [107] 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*, in press. doi: [10.1002/rmv.2034](https://doi.org/10.1002/rmv.2034)
- [106] 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*, in press. doi: [10.1016/j.envres.2018.12.062](https://doi.org/10.1016/j.envres.2018.12.062)
- [105] 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*, in press. doi: [10.1016/j.ttbdis.2018.12.007](https://doi.org/10.1016/j.ttbdis.2018.12.007)
- [104] 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*, in press. doi: [10.1080/10408398.2017.1392288](https://doi.org/10.1080/10408398.2017.1392288)
- [103] 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)
- [102] 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)
- [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-Cotin 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 cysticercosis 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, Vansteenland 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) Zooprophyllaxis 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, Kaminski M, Krt B, Magnussen P, Robertson LJ, Schmidt V, Schmutzhard E, Smit SA, Åäoba 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, Suciú 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, Gabriél S, Victor B, Van Pelt J, **Devleesschauwer B**, Vercruysse 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 estima-

- tes 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, Degueldre 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

- [18] 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. Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in Central and Western Asia and the Caucasus. *Parasit Vectors*
- [17] Havelaar AH, Li M, Hoffmann S, Hald T, Kirk MD, Torgerson PR, **Devleesschauwer B**. Global disease burden of pathogens in animal source foods, 2010. *PLOS ONE*
- [16] Charafeddine R, **Devleesschauwer B**, Van Oyen H, Demarest S. Housing and health-related quality of life in Belgium: a population-based cross-sectional study. *BMC Public Health*
- [15] Saratsis A, Sotiraki S, Braae UC, **Devleesschauwer B**, Dermauw V, Eichenberger RM, Thomas LF, Bobic B, Dorny P, Gabriël S, Robertson LJ. Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in the Middle East and North Africa. *Parasit Vectors*
- [14] Moyersoen I, **Devleesschauwer B**, Dekkers A, Verkaik-Kloosterman J, De Ridder K, Vandevijvere S, Tafforeau J, Van Oyen H, Lachat C, Van Camp J. An optimisation model for vitamin D fortification based on nationally representative consumption data. *J Nutr*
- [13] Renard F, **Devleesschauwer B**, Speybroeck N, Deboosere P. 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*
- [12] **Devleesschauwer B**, Pires SM, Young I, Gill A, Majowicz SE. 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*
- [11] Van Wilder L, Rammant E, Clays E, **Devleesschauwer B**, Pauwels N, De Smedt D. A comprehensive catalogue of EQ-5D scores in chronic disease: results of a systematic review. *Value Health*
- [10] Schwingshackl L, Knüppel S, Michels N, Schwedhelm C, Hoffmann G, Iqbal K, Dehenauf S, Boeing H, **Devleesschauwer B**. 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*
- [9] Pires SM, Majowicz S, Gill A, **Devleesschauwer B**. Global and regional source attribution of Shiga toxin-producing *Escherichia coli* infections using analysis of outbreak surveillance data. *Epidemiol Infect*
 - [8] 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. Perceptions and acceptability of piloted *Taenia solium* control and elimination interventions in two endemic communities in eastern Zambia. *Transbound Emerg Dis*
 - [7] Van Goethem N, Descamps T, **Devleesschauwer B**, Roosens N, Boon N, Van Oyen H, Robert A. Status and potential of pathogen genomics for public health practice: a scoping review. *Implement Sci*
 - [6] Birnie E, Virk HS, Savelkoel J, Spijker R, Bertherat E, Dance DAB, Limmathurotsakul D, **Devleesschauwer B**, Haagmsa JA, Wiersinga WJ. Global burden of melioidosis, 2015: a systematic review and data synthesis. *Lancet Infect Dis*
 - [5] Dixon MA, Braae UC, Winskill P, Walker M, **Devleesschauwer B**, Gabriël S, Basáñez M-G. Strategies for tackling *Taenia solium* taeniosis/cysticercosis: a systematic review and comparison of epidemiological models. *PLOS Negl Trop Dis*
 - [4] 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. The Vicious Worm’ educational tool induces long-term knowledge retention in primary school students in Zambia. *Infect Dis Poverty*
 - [3] Smit GSA, Vu Thi Lam B, Do Trung D, Do Quan H, Quang Pham H, Speybroeck N, **Devleesschauwer B**, Padalko E, Roets E, Dorny P. Sero-epidemiological status and risk factors of toxoplasmosis in pregnant women in Northern Vietnam. *BMC Infect Dis*
 - [2] Jennes M, **Devleesschauwer B**, De Craeye S, Praet N, Verhelst D, Czaplicki G, Vanrobaeys M, Dorny P, Cox E. True prevalence of anti-*Toxoplasma gondii* antibodies in Belgian pig farms. *PLOS ONE*
 - [1] Zeilmaker MJ, **Devleesschauwer B**, Mengelers MJB, Brandon E, Bokkers BGH. Health impact assessment of dioxins: a global perspective. *Risk Anal*

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 scientific meeting 2012: Challenges for the control of parasites*; 19 Oct 2013; Antwerp, Belgium.
- [2] **Devleesschauwer B** (2013) DALY's and burden of disease. Presented at the *Institute of Tropical Medicine, Methodological Seminar Series*; 7 Jun 2013; Antwerp, Belgium.
- [1] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2012) Éluclardation 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

- [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 multicriteria decision analyses, 8–12 February 2016, RIVM Bilthoven.
- [5] World Health Organization (2015) WHO estimates of the global burden of foodborne diseases. Foodborne diseases burden epidemiology reference group 2007-2015. Geneva: WHO Press. http://www.who.int/foodsafety/publications/foodborne_disease/fergreport/en/
- [4] Smit S, **Devleesschauwer B**, Apers L, Macq J, Beutels P, Speybroeck N (2015) Evaluation of the cost-effectiveness of the tuberculosis policies in Flanders. Report submitted to the Agency for Care and Health.

- [3] Food and Agriculture Organization of the United Nations, World Health Organization (2014) Risk based examples for control of *Trichinella* spp. and *Taenia saginata* in meat. Report of a joint FAO/WHO expert meeting, 22–25 October 2013, WHO Headquarters, Geneva, Switzerland. <ftp://ftp.fao.org/codex/meetings/CCFH/ccfh46/TrichinellaMtgReport241014.pdf>
- [2] World Health Organization (2014) WHO initiative to estimate the global burden of foodborne diseases: fifth formal meeting of the Foodborne Disease Burden Epidemiology Reference Group (FERG), 8–12 April 2013, Geneva, Switzerland. Geneva: WHO Press. <http://www.who.int/foodsafety/publications/ferg5/en/>
- [1] World Health Organization (2014) WHO initiative to estimate the global burden of foodborne diseases: fourth formal meeting of the Foodborne Disease Burden Epidemiology Reference Group (FERG): Sharing New Results, Making Future Plans, and Preparing Ground for the Countries. Geneva: WHO Press. <http://www.who.int/foodsafety/publications/ferg4/en/>

7.7 R Packages

- [8] Devleesschauwer B, McDonald S, Haagsma J, Praet N, Havelaar A, Speybroeck N (2016) DALY: The DALY Calculator—Graphical User Interface for Probabilistic DALY Calculation in R. R package version 1.5.0. <https://cran.r-project.org/package=DALY>
- [7] Devleesschauwer B, Braae UC (2016) cystiSim: Agent-Based Model for *Taenia solium* Transmission and Control. R package version 0.1.0. <https://cran.r-project.org/package=cystiSim>
- [6] Devleesschauwer B (2016) bd: brechtdv’s helper functions. R package version 0.0.11. <https://github.com/brechtdv/bd>
- [5] Devleesschauwer B, Faes C, Havelaar A, Speybroeck N (2016) QMRA: Parametric Models for Quantitative Microbial Risk Assessment. R package version 0.0.14. <https://github.com/brechtdv/QMRA>
- [4] Devleesschauwer B (2016) HFA: R Interface to European Health for All Database (HFA-DB). R package version 0.0.0.9004. <https://github.com/brechtdv/HFA>
- [3] Devleesschauwer B, McDonald S (2015) FERG: DALY Calculation Framework for WHO/FERG. R package version 0.1.0. <https://github.com/brechtdv/FERG>
- [2] Devleesschauwer B, Willimès S, Van Malderen C, Konings P, Speybroeck N (2015) rineq: Statistical Analysis of Health Inequalities. R package version 0.0.1. <https://github.com/brechtdv/rineq>
- [1] Devleesschauwer B, Torgerson PR, Charlier J, Levecke B, Praet N, Roelandt S, Smit G, Dorny P, Berkvens D, Speybroeck N (2015) prevalence: Tools for Pre-

valence Assessment Studies. R package version 0.4.0. <https://cran.r-project.org/package=prevalence>

7.8 Vulgarizing articles

- [4] Havelaar AH, **Devleesschauwer B**. *One in 10 globally suffer from foodborne diseases, WHO study finds*. EPI News, 3 December 2015.
- [3] Speybroeck N, Maertens de Noordhout C, **Devleesschauwer B**. *Des nombres pour des aliments sûrs*. La Libre Belgique, 12 April 2015.
- [2] Speybroeck N, Maertens de Noordhout C, **Devleesschauwer B**. *Comment les nombres rendent vos aliments plus sûrs*. Le Soir, 8 April 2015.
- [1] Speybroeck N, Maertens de Noordhout C, **Devleesschauwer B**. *Hoe getallen je voedsel veiliger maken*. De Morgen, 7 April 2015.

8 Scientific honors and awards

- **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
22 February 2019