

Brecht Devleesschauwer (°09/09/1986)

Senior epidemiologist, PhD DVM MVSc MStat

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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

- **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

- **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**, 2016–2019
PhD Nutrition, National Food Institute, Danish Technical University
Risk-benefit assessment of food substitutions
Promoters: Delphine De Smedt; Els Clays, **Brecht Devleesschauwer**

6.6 MSc students (38)

- 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**
- Emilie Lemaire, 2018–19
MSc Public Health, Université catholique de Louvain
The health and economic burden of lupus in Belgium (original research)
Promoters: Speybroeck N, **Devleesschauwer B**
- Stacey Wilmaer, 2018–19
MSc Public Health, Université catholique de Louvain
The disease burden of Alzheimer’s disease in Belgium (original research)
Promoters: **Devleesschauwer B**, Speybroeck N
- 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: [10.1007/978-3-319-92138-9₆](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: [10.1007/978-3-319-92138-9₉](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: [10.1007/978-3-319-92138-9₇](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: [10.1007/978-3-319-67664-7₁₅](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: 3161 citations · h-index 27 · i10-index 54

- [122] 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) An optimisation model for vitamin D fortification based on nationally representative consumption data. *J Nutr*, in press
- [121] 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*, in press
- [120] 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*, in press
 - [119] 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*, in press
 - [118] 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*, in press
 - [117] Birnie E, Virk HS, Savelkoel J, Spijker R, Bertherat E, Dance DAB, Limmathurotsakul D, **Devleesschauwer B**, Haagmsa JA, Wiersinga WJ (2019) Global burden of melioidosis, 2015: a systematic review and data synthesis. *Lancet Infect Dis*, in press
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7.3 Submitted manuscripts

- [7] McDonald SA, Haagsma JA, Cassini A, **Devleesschauwer B**. Adjusting for comorbidity in incidence-based DALY calculations: an individual-based modeling approach. *Pop Health Metr*
- [6] Hendrickx E, Thomas LF, Dorny P, Bobic B, Braae UC, **Devleesschauwer B**, Eichenberger RM, Gabriël S, Saratsis A, Torgerson PR, Robertson LJ, Dermauw V. Epidemiology of *Taenia saginata* taeniosis/cysticercosis: a systematic review of the distribution in Western and Central Africa. *Parasit Vectors*
- [5] 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*
- [4] **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*
- [3] 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*
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- [1] 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*

7.4 Oral presentations

- [16] **Devleesschauwer B** (2017) Estimates of the global and regional burden of foodborne parasites as determined by the World Health Organization. Presented at the *WAAVP 2017*; 6 Sep 2017; Kuala Lumpur, Malaysia.
- [15] **Devleesschauwer B** (2017) WHO/FERG Estimates of the Global and Regional Burden of STEC. Presented at the *Joint FAO/WHO Expert Meeting on Shiga Toxin-producing Escherichia coli (STEC)*; 25 Sep 2017; Rome, Italy.
- [14] **Devleesschauwer B** (2017) The disease burden of infectious diseases in Belgium. Presented at the *Seminar diagnosis and surveillance of infectious diseases WIV-ISP*; 18 May 2017; Brussels, Belgium.
- [13] **Devleesschauwer B** (2016) Estimating the true burden of infectious diseases: methodological considerations. Presented at the *UCL Doctoral Day*; 29 Sep 2016; Brussels, Belgium.
- [12] **Devleesschauwer B** (2016) Methodology to estimate disease burden. Presented at the *IAFP 2016*; 3 Aug 2016; St. Louis, MO, USA.
- [11] **Devleesschauwer B** (2015) Methodological framework for WHO estimates of the global burden of foodborne disease. Presented at the *FERG symposium: Global burden foodborne diseases—from data to action*; 15-16 Dec 2015; Amsterdam, Netherlands.
- [10] **Devleesschauwer B** (2015) Tips and tricks on writing a paper and getting it published. Presented at the *Animal Genetics Seminar*; 1 Dec 2015; Gainesville, FL, USA.
- [9] **Devleesschauwer B**, Claes L, Dorny P (2015) Foodborne parasites in Belgium. Presented at the *1st EURO-FBP Working Group Meeting*; 26 Oct 2015; Zagreb, Croatia.
- [8] **Devleesschauwer B** (2015) Quantifying uncertainty in Disability-Adjusted Life Year calculations. Presented at the *6th SIMID Workshop*; 29 Apr 2015; Antwerp, Belgium.
- [7] **Devleesschauwer B**, Torgerson P, Charlier J, Levecke B, Praet N, Roelandt S, Smit S, Dorny P, Berkvens D, Speybroeck N (2014) Bayesian estimation of true prevalence from apparent prevalence in R: Introducing the "prevalence" package. Presented at the *Berliner Kolloquium—Statistische Methoden in der Empirischen Forschung*; 9 Dec 2014; Berlin, Germany.
- [6] **Devleesschauwer B** (2014) Unravelling the burden of zoonoses in Nepal. Presented at the *University of Florida, Emerging Pathogens Institute, Seminar Series*; 18 Nov 2014; Gainesville, FL, USA.

- [5] **Devleesschauwer B**, Speybroeck N (2014) Understanding, interpreting and calculating Disability-Adjusted Life Years. Presented at the *Scientific Institute of Public Health (WIV-ISP), Seminar Series*; 11 Mar 2014; Brussels, Belgium.
- [4] **Devleesschauwer B**, Praet N, Dorny P, Duchateau L, Speybroeck N (2013) DALY calculation in practice: a stepwise approach. Presented at the *6th European Public Health Conference (EUPHA 2013): Health in Europe, are we there yet?*; 14-16 Nov 2013; Brussels, Belgium.
- [3] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2013) Unravelling the burden of parasitic zoonoses in Nepal. Presented at the *Joint NVP/BSP scientific meeting 2012: Challenges for the control of parasites*; 19 Oct 2013; Antwerp, Belgium.
- [2] **Devleesschauwer B** (2013) DALY's and burden of disease. Presented at the *Institute of Tropical Medicine, Methodological Seminar Series*; 7 Jun 2013; Antwerp, Belgium.
- [1] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2012) 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

- [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/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 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*: 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/brechtvd/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/brechtvd/HFA>
 - [3] **Devleesschauwer B**, McDonald S (2015) *FERG*: DALY Calculation Framework for WHO/FERG. R package version 0.1.0. <https://github.com/brechtvd/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/brechtvd/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] *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
08 May 2019