

Brecht Devleesschauwer (°09/09/1986)

Senior epidemiologist, PhD DVM MVSc MStat

*Scientific Institute of Public Health (WIV-ISP), Dept Public Health and Surveillance
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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

- **Senior epidemiologist**, 04/2016–present
Scientific Institute of Public Health (WIV-ISP), Brussels, Belgium
- **Guest lecturer, health economic evaluations**, 10/2016–present
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

- **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
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**, 2016–present
European Burden of Disease Network (WHO/EURO, IHME)
- **Epidemiology workgroup leader**, 2013–present
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

- FAO/WHO expert meeting on verotoxigenic *Escherichia coli* (VTEC) / Shigatoxigenic *E. coli* (STEC). World Health Organization, Geneva, Switzerland; 2016.
- Expert consultation on diet-related health problems to support the development of food-based dietary guidelines. Superior Health Council, Brussels, Belgium; 2016.
- 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 Management of research centers

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

4.5.2 Organisation of national and international conferences

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

4.5.3 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

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|------------------|-------------|------------|------------|
| • 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, WinBUGS, OpenBUGS, JAGS, 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

- **Health economic evaluations**
WFSP2103, Université catholique de Louvain, March–April, 2017
- **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**, 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 Promoter of 4 short-term scientific missions

- **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
- **Dr 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

6.6 (Co)supervisor of 20 MSc students

- 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**
- 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**

- Louise Vanhecke, 2015–16
MSc Veterinary Medicine, Ghent University
Vector-borne diseases in Nepal (literature review)
Promoters: **Devleesschauwer B**, Dorny P
- Febe Vanpoucke, 2015–16
MSc Veterinary Medicine, Ghent University
Parasitic zoonoses in Ethiopia (literature review)
Promoters: **Devleesschauwer B**, Dorny P
- Alexia Lescart, 2015–16
MSc Public Health, Université catholique de Louvain
Socioeconomic inequalities in diarrhea in Nepal (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**
- Sara Hanna, 2015–16
MSc Public Health, Université catholique de Louvain
Burden of Crohn disease in Belgium (original research)
Promoters: Speybroeck N, **Devleesschauwer B**
- Judth Verduijn, 2014–15
MSc Veterinary Medicine, Ghent University
Tick-borne zoonoses in Belgium (literature review)
Promoters: **Devleesschauwer B**, Claerebout E
- Eveline Jansen, 2014–15
MSc Veterinary Medicine, Ghent University
Rabies in Ethiopia (original research)
Promoters: Dorny P, **Devleesschauwer B**
- Tom Slegh, 2014–15
MSc Veterinary Medicine, Ghent University
Diapause in *Anopheles* mosquitoes (literature review)
Promoters: Duchateau L, **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**

- Gerhardina (Gerdien) Huisman, 2013–14
MSc Veterinary Medicine, Ghent University
Zooprophylaxis: a malaria control strategy (original research)
Promoters: Duchateau L, Yewhalaw D, **Devleesschauwer B**
- Eveline Jansen, 2012–13
MSc Veterinary Medicine, Ghent University
Rabies in Ethiopia (literature review)
Promoters: Dorny P, **Devleesschauwer B**
- Norbert van de Velde, 2012–13
MSc Veterinary Medicine, Ghent University
Toxoplasmosis in marine mammals (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**
- Rudolf Spiekers, 2011–12
MSc Veterinary Medicine, Ghent University
Toxoplasmosis in wild felids (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**

6.7 (Co)supervisor of 8 BSc students

- Ziqi Wang, 2015–16
BSc Biochemistry, University of Florida
Epidemiology of *Taenia solium* in Central America (original research)
Promoter: **Devleesschauwer B**
- 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**

- 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
- Yannick Van der Venne, 2012–13
BSc Biomedical Sciences, Antwerp University
Listeriosis in Belgium (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
- Anne Declercq, 2011–12
BSc Biomedical Sciences, Antwerp University
Rabies in Nepal (literature review)
Promoters: **Devleesschauwer B**, Speybroeck N

7 Scientific output

7.1 Book chapters

- [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., in press. 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: 1127 citations · h-index 16 · i10-index 31

- [68] Braae UC, **Devleesschauwer B**, Sithole F, Wang Z, Willingham AL (2017) Occurrence of *Taenia solium* taeniosis/cysticercosis and areas at risk of porcine cysticercosis in Central America and the Caribbean basin. *Parasit Vectors*, in press
- [67] Bouwknegt M, **Devleesschauwer B**, Graham H, Robertson LJ, van der Giessen J (2017) Prioritization of foodborne parasites in Europe. *Euro Surveill*, in press
- [66] Maertens de Noordhout C, **Devleesschauwer B**, Haagsma JA, Havelaar AH, Bertrand S, Vandenberg O, Quoilin S, Brandt PT, Speybroeck N (2017) Current and future burden of salmonellosis, campylobacteriosis and listeriosis in Belgium: a time series analysis. *Euro Surveill*, in press
- [65] Maertens de Noordhout C, **Devleesschauwer B**, Salomon JA, Turner H, Cassini A, Colzani E, Speybroeck N, Polinder S, Kretzschmar ME, Havelaar AH, Haagsma JA (2017) Disability weights for infectious diseases in four European countries: comparison between countries and across respondent characteristics. *Eur J Public Health*, in press. doi: [10.1093/eurpub/ckx090](https://doi.org/10.1093/eurpub/ckx090)
- [64] 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*, in press. doi: [10.1186/s13690-017-0212-x](https://doi.org/10.1186/s13690-017-0212-x)
- [63] 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*, in press. doi: [10.1007/s10096-017-3029-1](https://doi.org/10.1007/s10096-017-3029-1)
- [62] **Devleesschauwer B**, Marvasi M, Giurcanu MC, Hochmuth GJ, Speybroeck N, Havelaar AH, Teplitski M (2017) High relative humidity pre-harvest reduces post-harvest proliferation of *Salmonella* in tomatoes. *Food Microbiol* 66:55-63. doi: [10.1016/j.fm.2017.04.003](https://doi.org/10.1016/j.fm.2017.04.003)
- [61] Smit GSA, Padalko E, Van Acker J, Hens N, Dorny P, Speybroeck N, **Devleesschauwer B** (2017) The public health impact of congenital toxoplasmosis and cytomegalovirus infection in Belgium. *Clin Infect Dis* 65:661-668. doi: [10.1093/cid/cix344](https://doi.org/10.1093/cid/cix344)
- [60] Moyersoen I, **Devleesschauwer B**, Dekkers A, De Ridder K, Tafforeau J, Van Camp J, Van Oyen H, Lachat C (2017) Intake of fat-soluble vitamins in the Belgian

- population: adequacy and contribution of foods, fortified foods and supplements. *Nutrients* 9:860. doi: [10.3390/nu9080860](https://doi.org/10.3390/nu9080860)
- [59] Laranjo-González M, **Devleesschauwer B**, Trevisan C, Allepuz A, Sotiraki S, Abraham A, Boaventura Afonso M, Blocher J, Cardoso L, Manuel Correia da Costa J, Dorny P, Gabriël S, Gomes J, Ángeles Gómez-Morales M, Jokelainen P, Kaminiski M, Krt B, Magnussen P, Robertson LJ, Schmidt V, Schmutzhard E, Smit SA, ĄŁoba 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, Suciu 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)
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7.3 Submitted manuscripts

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- [16] 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. 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*
- [15] 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. *Taenia solium* from a community perspective: preliminary costing data in the Katete and Sinda districts in eastern Zambia. *Vet Parasitol*

- [14] Torgerson PR, Rüegg S, **Devleesschauwer B**, Abela-Ridder B, Havelaar AH, Shaw A, Rushton J, Speybroeck N. zDALY: an adjusted indicator for the burden of zoonotic diseases. *One Health*
- [13] **Devleesschauwer B**, Bouwknegt M, Dorny P, Gabriël S, Havelaar AH, Quoilin S, Robertson LJ, Speybroeck N, Torgerson PR, van der Giessen JWB, Trevisan C. Risk ranking of foodborne parasites: state of the art. *Food Waterborne Parasitol*
- [12] Gabriël S, 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. Re-visiting the detection of porcine cysticercosis based on full carcass dissections of naturally *Taenia solium* infected rural Zambian pig. *Parasit Vectors*
- [11] Trevisan C, **Devleesschauwer B**, Praet N, Pondja A, Assane YA, Dorny P, Thamsborg SM, Magnussen P, Johansen MV. Assessment of the societal cost of *Taenia solium* in AngŃnia district, Mozambique. *BMC Infect Dis*
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- [9] 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. True malaria prevalence in children under five: Bayesian estimation using data of malaria household surveys from three sub-Saharan countries. *Malar J*
- [8] Deng H, **Devleesschauwer B**, Liu M, Li J, Wu Y, van der Giessen J, Opsteegh M. Seroprevalence of *Toxoplasma gondii* in pregnant women and livestock in the mainland of China: a systematic review and hierarchical meta-analysis. *Sci Rep*
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- [1] Ward M, Abatih E, Saegerman C, Berkvens D, Dhand N, **Devleesschauwer B**, Rahman AA, Shamsuddin M, Smit S. Bayesian estimation of the true exposure prevalence, sensitivity and specificity of three serological tests for the diagnosis of bovine brucellosis in Bangladesh. *Prev Vet Med*

7.4 Oral presentations

- [27] Hobbs EC, Mwape KE, Zulu G, Mambwe M, Chembensofu M, Phiri IK, Masuku M, Berkvens D, Bottieau E, **Devleesschauwer B**, Speybroeck N, Colston A, Willingham AL, Dorny P, Gabriël S (2016) Assessment of the computer-based *Taenia solium* educational program 'The Vicious Worm' on knowledge update in primary school children in Katete district in Eastern Zambia. Presented at the *6th CYSTINET Working Group Meeting*; 27 Sep 2016; Ljubljana, Slovenia.
- [26] Bouwknegt M, Graham H, **Devleesschauwer B**, Robertson L, van der Giessen J (2016) Ranking foodborne parasites in Europe using multicriteria decision analyses. Presented at the *Joint EURO-FBP and CYSTINET Meeting*; 28 Sep 2016; Ljubljana, Slovenia.
- [25] Dupont F, **Devleesschauwer B**, Kaducu J, Lauseker M, Schmidt V, Ovuga E, Winkler A (2016) Risk factor analysis in patients with neurocysticercosis associated epilepsy in northern Uganda. Presented at the *6th CYSTINET Working Group Meeting*; 27 Sep 2016; Ljubljana, Slovenia.
- [24] Hoffmann S, Cooke R, Aspinall W, **Devleesschauwer B**, Hald T (2016) Global food attribution estimates for 11 major pathogens for the global burden of foodborne disease initiative. Presented at the *IAFP 2016*; 3 Aug 2016; St. Louis, MO, USA.
- [23] **Devleesschauwer B** (2016) Methodology to estimate disease burden. Presented at the *IAFP 2016*; 3 Aug 2016; St. Louis, MO, USA.
- [22] Trevisan C, **Devleesschauwer B**, Schmidt V, Winkler AS, Harrison W, Johansen MV (2016) The societal cost of *Taenia solium* cysticercosis in Tanzania. Presented at the *29th Joint Congress of the Italian Society of Parasitology (SOIPA) and European Veterinary College*; 21-24 Jun 2016; Bari, Italy.
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- [20] **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.
 - [19] **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.
 - [18] **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.
 - [17] Maertens de Noordhout C, **Devleesschauwer B**, Lamarrana D, Haagsma J, Haveelaar A, Quoilin S, Bertrand S, Dupont Y, Vandenberg O, Brandt P, Speybroeck N (2015) Current and future Disability-Adjusted Life Years (DALYs) of *Salmonella* and *Campylobacter* in Belgium. Presented at the *Methods in Epidemiology Symposium*; 17 Sep 2015; Leuven, Belgium.
 - [16] Pires S, Hall A, Fischer-Walker C, Lanata C, **Devleesschauwer B**, Duarte AS, Kirk M, Black RE, Angulo F (2015) Global and regional incidence and mortality of diarrheal diseases commonly transmitted through food: Estimates from the WHO Foodborne Epidemiology Reference Group. Presented at the *IAFP 2015*; 28 Jul 2015; Portland, OR, USA.
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 - [14] **Devleesschauwer B** (2015) Quantifying uncertainty in Disability-Adjusted Life Year calculations. Presented at the *6th SIMID Workshop*; 29 Apr 2015; Antwerp, Belgium.
 - [13] **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.
 - [12] **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.

- [11] **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.
- [10] **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.
- [9] Maertens de Noordhout C, **Devleesschauwer B**, Angulo FJ, Haagsma JA, Haveelaar AH, Speybroeck N (2013) Global burden of listeriosis. Presented at the *6th European Public Health Conference (EUPHA 2013): Health in Europe, are we there yet?*; 14-16 Nov 2013; Brussels, Belgium.
- [8] Speybroeck N, Van Malderen C, Harper S, Müller B, **Devleesschauwer B** (2013) Simulation models for socioeconomic inequalities in health: a systematic review. Presented at the *6th European Public Health Conference (EUPHA 2013): Health in Europe, are we there yet?*; 14-16 Nov 2013; Brussels, Belgium.
- [7] Praet N, **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2013) What are disability-adjusted life years? Presented at the *6th European Public Health Conference (EUPHA 2013): Health in Europe, are we there yet?*; 14-16 Nov 2013; Brussels, Belgium.
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- [5] Charlier J, **Devleesschauwer B**, van der Voort M, Vercruysse J (2013) Can we develop farm-specific models for assessing the cost/benefits of TST approaches? Presented at the *GLOWORM 2nd General Assembly/Scientific Meeting*; 16-18 Sep 2013; Dublin, Ireland.
- [4] **Devleesschauwer B** (2013) DALY's and burden of disease. Presented at the *Institute of Tropical Medicine, Methodological Seminar Series*; 7 Jun 2013; Antwerp, Belgium.
- [3] Henrard S, Hermans C, **Devleesschauwer B**, Speybroeck N (2012) Assessment of the health and the economic burden of haemophilia in Belgium: a rare, very expensive and largely unknown disease with multiple public health challenges. Presented at the *5th European Public Health Conference (EUPHA 2012): All Inclusive Public Health*; 8-10 Nov 2012; Portomaso, St. Julian's, Malta.
- [2] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2012) Éluclation 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.

- [1] Charlier J, Levecke B, **Devleesschauwer B**, Vercruysse J, Hogeveen H (2011) The economic effects of blanket versus selective anthelmintic treatment strategies in dairy cows. Presented at the *23rd international conference of the World Association for the Advancement of Veterinary Parasitology*; 21-25 Aug 2011; Buenos Aires, Argentina.

7.5 Poster presentations

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

- [6] Graham H, Martijn Bouwknegt M, **Devleesschauwer B**, Robertson L, van der Giessen L (2016) COST Action FA1408: European ranking of foodborne parasites. Results of a workshop held to prioritise foodborne parasites in Europe using multi-criteria decision analyses, 8–12 February 2016, RIVM Bilthoven.
- [5] World Health Organization (2015) WHO estimates of the global burden of foodborne diseases. Foodborne diseases burden epidemiology reference group 2007–2015. Geneva: WHO Press. http://www.who.int/foodsafety/publications/foodborne_disease/fergreport/en/
- [4] Smit S, **Devleesschauwer B**, Apers L, Macq J, Beutels P, Speybroeck N (2015) Evaluation of the cost-effectiveness of the tuberculosis policies in Flanders. Report submitted to the Agency for Care and Health.
- [3] Food and Agriculture Organization of the United Nations, World Health Organization (2014) Risk based examples for control of *Trichinella* spp. and *Taenia saginata* in meat. Report of a joint FAO/WHO expert meeting, 22–25 October 2013, WHO Headquarters, Geneva, Switzerland. <ftp://ftp.fao.org/codex/meetings/CCFH/ccfh46/TrichinellaMtgReport241014.pdf>
- [2] World Health Organization (2014) WHO initiative to estimate the global burden of foodborne diseases: fifth formal meeting of the Foodborne Disease Burden Epidemiology Reference Group (FERG), 8–12 April 2013, Geneva, Switzerland. Geneva: WHO Press. <http://www.who.int/foodsafety/publications/ferg5/en/>
- [1] World Health Organization (2014) WHO initiative to estimate the global burden of foodborne diseases: fourth formal meeting of the Foodborne Disease Burden Epidemiology Reference Group (FERG): Sharing New Results, Making Future Plans, and Preparing Ground for the Countries. Geneva: WHO Press. <http://www.who.int/foodsafety/publications/ferg4/en/>

7.7 R Packages

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

- [7] **Devleesschauwer B**, Braae UC (2016) *cystiSim*: Agent-Based Model for *Taenia solium* Transmission and Control. R package version 0.1.0. <https://cran.r-project.org/package=cystiSim>
- [6] **Devleesschauwer B** (2016) *bd*: brechtdv's helper functions. R package version 0.0.11. <https://github.com/brechtdv/bd>
- [5] **Devleesschauwer B**, Faes C, Havelaar A, Speybroeck N (2016) *QMRA*: Parametric Models for Quantitative Microbial Risk Assessment. R package version 0.0.14. <https://github.com/brechtdv/QMRA>
- [4] **Devleesschauwer B** (2016) *HFA*: R Interface to European Health for All Database (HFA-DB). R package version 0.0.0.9004. <https://github.com/brechtdv/HFA>
- [3] **Devleesschauwer B**, McDonald S (2015) *FERG*: DALY Calculation Framework for WHO/FERG. R package version 0.1.0. <https://github.com/brechtdv/FERG>
- [2] **Devleesschauwer B**, Willimès S, Van Malderen C, Konings P, Speybroeck N (2015) *rineq*: Statistical Analysis of Health Inequalities. R package version 0.0.1. <https://github.com/brechtdv/rineq>
- [1] **Devleesschauwer B**, Torgerson PR, Charlier J, Levecke B, Praet N, Roelandt S, Smit G, Dorny P, Berkvens D, Speybroeck N (2015) *prevalence*: Tools for Prevalence Assessment Studies. R package version 0.4.0. <https://cran.r-project.org/package=prevalence>

7.8 Vulgarizing articles

- [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
14 September 2017