# 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

- 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 Vac-

cines, 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 Dis-

**ease**, 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, 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

- 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 strenghten institutional capacity

- Organisation of a workshop on design of experiments
- Supervision of Master students
- Doctoral research in Nepal, 2010–2015

Collection and analysis of data on the burden of zoonotic and foodborne diseases, during a 6 months' stay

• Impact assessment and control of cysticercosis in the Indian Subcontinent, 2007–2009

VLIR-UOS collaboration between Institute of Tropical Medicine (Antwerp, Belgium) and National Zoonoses and Food Hygiene Research Centre (Kathmandu, Nepal)

- Field work, lab work, data analysis

## 4.4 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

• Dutch speaking+++ reading+++ writing+++speaking+++ reading+++• English writing+++• French speaking++ reading+++writing++ • German reading++ speaking+ writing+ writing+ • Nepali reading+ speaking+

# 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, LATEX, 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 (2017) Burden and Risk Assessment of Foodborne Parasites. In: Ortega Y, Sterling C (eds) *Foodborne Parasites, 2nd ed.*, in press
- [2] Devleesschauwer B, Bouwknegt M, Mangen M-JJ, Havelaar AH (2017) Health and Economic Burden of Campylobacter. In: Klein G (ed) Campylobacter: Features, Detection, and Prevention of Foodborne Disease, pp 27-40. doi: 10.1016/B978-0-12-803623-5.00002-2
- [1] Levecke B, Anderson RM, Berkvens D, Charlier J, **Devleesschauwer B**, Speybroeck N, Vercruysse J, Van Aelst S (2015) Mathematical inference on helminth egg counts in stool and its applications in mass drug administration programmes to control soil-transmitted helminthiasis in public health. In: Anderson RM, BasáÃsez MG (eds) Advances in Parasitology, Volume 87, Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part A, pp 193-247. doi: 10.1016/bs.apar.2015.01.001

## 7.2 Peer-reviewed papers

Google Scholar metrics: 958 citations · h-index 15 · i10-index 27

[65] 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
- [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
- [63] 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, ÂŁoba 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: Part I, Western Europe. *Parasit Vectors*, in press
- [62] 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
- [61] 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
- [60] Smit GSA, Padalko E, Van Acker J, Hens N, Dorny P, Speybroeck N, **Devleess-chauwer B** (2017) The public health impact of congenital toxoplasmosis and cytomegalovirus infection in Belgium. *Clin Infect Dis*, in press. doi: 10.1093/cid/cix344
- [59] 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
- [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
- [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

- [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
- [55] Steckling N, Devleesschauwer B, Winkelnkemper 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
- [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
- [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
- [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
- [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
- [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
- [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, **Devleess-chauwer 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
- [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
- [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
- [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
- [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
- [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
- [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
- [42] Laranjo-González M, **Devleesschauwer B**, Gabriël 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
- [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
- [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
- [39] Tromme I, Legrand C, Devleesschauwer B, Leiter U, Suciu S, Eggermont A, Francart J, Calay F, Haagsma JA, Baurain J-F, Thomas L, Beutels P, Speybroeck N (2016) Melanoma burden by melanoma stage: assessment through a disease transition model. Eur J Cancer 53:33-41. doi: 10.1016/j.ejca.2015.09.016
- [38] Tigre W, Deresa B, Haile A, Gabriël 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

- [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
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## 7.3 Submitted manuscripts

- [14] Moyersoen I, **Devleesschauwer B**, Dekkers A, De Ridder K, Tafforeau J, Van Camp J, Van Oyen H, Lachat C. Contribution of fortified foods and supplements to the adequacy of fat soluble vitamin intake in the Belgian population. *Nutrients*
- [13] 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
- [12] Braae UC, **Devleesschauwer B**, Sithole F, Wang Z, Willingham AL. Occurrence of *Taenia solium* taeniosis/cysticercosis and areas at risk of porcine cysticercosis in Central America and the Caribbean basin. *Parasit Vectors*
- [11] 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*
- [10] 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. Estimates of the relative role of specific food categories in causing major foodborne enteric diseases around the world: Findings from a World Health Organization structured expert elicitation. PLOS ONE
  - [9] Charafeddine R, Demarest S, Cleemput I, Van Oyen H, **Devleesschauwer B**. Gender and educational differences in the association between smoking and health-related quality of life in Belgium. *Prev Med*
  - [8] 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* anti-bodies in Belgian pig farms. *Vet Parasitol*
  - [7] Bouwknegt M, **Devleesschauwer B**, Graham H, Robertson LJ, van der Giessen J. Prioritization of foodborne parasites in Europe. *Euro Surveill*
- [6] 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. *PLOS Negl Trop Dis*
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- [4] Zeilmaker MJ, **Devleesschauwer B**, Mengelers MJB, Brandon E, Bokkers BGH. Health impact assessment of dioxins: a global perspective. *Risk Anal*
- [3] Goudet S, Jayaraman A, Chanani S, Osrin D, **Devleesschauwer B**, Bogin B, Madise N, Griffiths P. Cost effectiveness of a programme for community management

- of acute malnutrition in Mumbai slums, India. Cost Eff Resour Alloc
- [2] Asale A, Huisman G, **Devleesschauwer B**, Speybroeck N, Duchateau L, Yewhalaw D. Zooprophylaxis as a malaria control strategy for *Anopheles* arabiensis: a systematic review. *Med Vet Entomol*
- [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 Parasitoloty (SOIPA) and European Veterinary College; 21-24 Jun 2016; Bari, Italy.
- [21] Hoffmann S, Cooke R, Aspinall W, **Devleesschauwer B**, Cawthorne A, Hald T (2016) Estimates of the global burden of foodborne disease and their implications for international benefits assessment. Presented at the 8th Annual Conference of the Society for Benefit-Cost Analysis; 17 Mar 2016; Washington, DC, USA.

- [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, Havelaar 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.
- [15] Charlier J, Levecke B, **Devleesschauwer B**, Vande Velde F, Verschave S, Claerebout E, Vercruysse J (2015) ParaCalc®—outils informatiques pour maitriser le parasitisme en élevage bovin. Presented at the *Journées Nationales 2015 des Groupements Techniques Vétérinaires*; 20-22 May 2015; Nantes, France.
- [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, Havelaar 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.
- [6] Devleesschauwer B, Dorny P, Duchateau L, Speybroeck N (2013) Unravelling the burden of parasitic zoonoses in Nepal. Presented at the *Joint NVP/BSP scien*tific meeting 2012: Challenges for the control of parasites; 19 Oct 2013; Antwerp, Belgium.
- [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) Élucidation du fardeau des zoonoses parasitaires au Népal. Presented at the 5ième Congrès international d'Épidémiologie (ADELF-EPITER): Épidémiologie et santé mondialisée; 12-14 Sep 2012; Brussels, Belgium.
- [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, **Devleess-chauwer B**, Speybroeck N, Vercruysse J, Van Aelst S (2016) Guidance in designing surveys for monitoring the progress of school-based deworming programmes to control soil-transmitted helminths. Presented at the 65th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 13-17 Nov 2016; Atlanta, GA, USA.
- [6] Steckling N, Plass D, Winkelnkemper J, Fischer F, **Devleesschauwer B**, Krämer A, Hornberg C, Bose-O'Reilly S (2016) Disability weights for chronic metallic mercury vapor intoxication to improve estimates of the burden of disease resulting from mercury use in gold mining. Presented at the 28th Annual Conference of the International Society For Environmental Epidemiology; 1-4 Sep 2016; Rome, Italy.
- [5] Smit GSA, Padalko E, Van Acker J, Dorny P, Speybroeck N, Claerebout E, **Devleesschauwer B** (2016) The public health impact of congenital cytomegalovirus infection in Belgium. Presented at the *European Congenital Cytomegalovirus Initiative Conference*; 24-26 Apr 2016; Venice, Italy.
- [4] van de Velde N, **Devleesschauwer B**, Decraeye S, Barnett J, Begeman L, Brownlow A, Davison N, Ijzer J, Jauniaux T, Hiemstra S, Siebert U, Dorny P (2014) Toxoplasma gondii in marine mammals. Presented at the 28th Annual Conference of the European Cetacean Society: Marine mammals as sentinels of a changing environment; 5-9 Apr 2014; Liège, Belgium.
- [3] **Devleesschauwer B**, Havelaar A, Haagsma J, Praet N, Dorny P, Duchateau L, Speybroeck N (2012) Le "DALY Calculator": une interface graphique pour le calcul des DALYs en R. Presented at the 5ième Congrès international d'Épidémiologie (ADELF-EPITER): Épidémiologie et santé mondialisée; 12-14 Sep 2012; Brussels, Belgium.
- [2] Nalon E, Maes D, **Devleesschauwer B**, Millet S, Van Riet M, Janssens G, Tuyttens F (2012) Assessment of mechanical nociception thresholds in lame versus non-lame sows with two methods. Presented at the 4th European symposium of Porcine Health Management; 25-27 Apr 2012; Bruges, Belgium.
- [1] **Devleesschauwer B**, Dorny P, Duchateau L, Speybroeck N (2011) Unravelling the burden of parasitic zoonoses in Nepal. Presented at the *Journée des doctorants:* école doctorale thématique: santé publique, santé et société; 17 Nov 2011; Brussels, Belgium.

## 7.6 Reports

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# 7.7 R Packages

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## 7.8 Vulgarizing articles

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# 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

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