

DACH-Epidemiologietagung 2014

3 September 2014, 9am to 12 noon

Workshop: Assessment of societal burden of zoonoses - an introduction

Objectives and expected outcomes

1. Explain key concepts of impact assessment of zoonoses taking a One Health approach
2. Present common measures of impact assessment used in human and animal health
3. Introduce basic principles to assess the economic efficiency of interventions

Content

- Introduction to basic concepts of
 - a. impact assessment of zoonotic disease
 - b. common metrics
 - c. assessment of economic efficiency of interventions
- Break out groups to discuss how to carry out a disease impact assessment using case studies
- Presentation of case studies
- General discussion

Facilitators

- Paul Torgerson, Vetsuisse Faculty, University of Zürich, Switzerland
- Barbara Häslér, Royal Veterinary College, United Kingdom
- Jörn Gethmann, Friedrich Loeffler Institut, Germany
- Katharina Stärk, Safoso, Switzerland

Further information and contact

- Location: University of Zurich, Binzmühlestr. 14, CH-8050 Zürich
- Workshop language: Main presentation language will be English, but contributions can also be made in German.
- Previous knowledge: Not required. If you have case studies that you would like to discuss or present, please get in touch with Barbara Häslér (bhaesler@rvc.ac.uk) or Jörn Gethmann (Joern.Gethmann@fli.bund.de)

Programme

- 09.00-09.05 *Welcome by Prof. P. Torgerson*
- 09.05-09.30 *Introduction to impact assessment (Barbara Häsler) – Aims, objectives, ways of doing impact assessment, examples.*
- What is an impact assessment?
 - What needs to be included in an impact assessment?
- 09.30-10.00 *Common metrics used in impact assessment of zoonotic disease (Paul Torgerson) - Human health: QALY, DALY, life expectancy, mortality, cost of illness. Animal health: Mortality, morbidity, welfare, production, productivity. Characteristics, strengths and weaknesses and data needs. Standardisation, comparability and integration of metrics from different disciplines.*
- 10.00-10.30 *Basic principles of cost-effectiveness and cost-benefit analysis (Jörn Gethmann) - Concept of marginality, assessing change, expressing outcomes in monetary or non-monetary units/metrics, criteria and their interpretation, discounting*
- 10.30-10.50 Coffee break
- 10.50-11.15 *Short introduction to case study scenarios*
- Scenario 1: Rabies in Sri Lanka – economic, health, social, ethical and animal welfare dimensions (Barbara Häsler)
 - Scenario 2: Echinococcosis or toxoplasmosis (Paul Torgerson)
 - Scenario 3: Bovine spongiform encephalopathy – cost of BSE control in Germany, risks and potential benefits (Jörn Gethmann)
 - Scenario 4: Campylobacter (Katharina Stärk)
- 11.15-11.45 *Small group discussions and case study work with facilitators present*
- 11.45-12.00 *General discussion and wrap-up (facilitated by Paul Torgerson)*

Facilitators short biographies



Jörn Gethmann is a veterinarian specialized in veterinary epidemiology and animal health economics. He is working as a senior scientist at the Institute of Epidemiology, Friedrich Loeffler-Institute. His work focuses on the management of animal diseases including animal disease economics. His recent research concentrates on the economics of Bluetongue disease, BSE and BVD.



Barbara Häslar has a first degree in veterinary medicine and specialises in the use of economics in animal health and veterinary epidemiology. Her research focuses on the evaluation of disease mitigation strategies in developed and developing countries, with a particular focus on animal health surveillance systems. She works as a lecturer at the Leverhulme Centre for Integrative Research in Agriculture and Health and the Royal Veterinary College.



Katharina Stärk is Prof. of Veterinary Public Health Policy at the Royal Veterinary College, London, and works as a private consultant for SAFOSO, Bern. She has a broad interest in infectious diseases, especially zoonoses, and their complex biology and impact. Her research focuses on surveillance systems, risk assessment and optimisation of interventions. Recent projects have focused on the use of antimicrobials in livestock and related consequences for animal and public health.



Paul Torgerson is a British trained veterinarian and graduated from Cambridge University in 1986. After a period in clinical practice, he completed a PhD in Parasitology in Cambridge. He was subsequently appointed as a lecturer at University College Dublin where he developed an interest in parasite epidemiology. From 2002 to 2008 he led a group on parasite epidemiology at the Institute of Parasitology in Zurich. Since 2009 he holds the chair of veterinary epidemiology in Zurich. His interest in burden of disease analysis originates from work on zoonoses, particularly echinococcosis. He has a specific research interested in developing improved techniques for disease burden analysis in particular the use of stochastic techniques to model uncertain data.