

Getting ahead of the risks: Strategies to avoid known and unknown hazards

ECVPH Annual Conference and AGM
11-13th September 2024 (Liverpool, UK)

All sessions will be hybrid unless stated otherwise

Tuesday Sept. 10th – Preconference workshop

09:30 – 16.30 **Introduction to veterinary qualitative research workshop** (not hybrid)
(*Waterhouse Block J – Vet School*) – Tickets additional to registration
Dr Becky Smith & Dr Tamzin Furtado

Wednesday Sept. 11th

09:30 – 13:00 **Introduction to veterinary qualitative research workshop** (not hybrid)
(*Waterhouse Block J – Vet School*) – Tickets additional to registration
Dr Becky Smith & Dr Tamzin Furtado

11:00 – 13:00 **Council Workshop** (Council members only)
(*Waterhouse Block J – Vet School*)

15:00 – 18:30 **Council meeting** (Council members only)
(*Waterhouse Block J – Vet School*)

16:30 – 18:00 Guided campus walk – Meet at Victoria Gallery & Museum (optional)

17:00 – 18:30 **Residency meeting**
(*Waterhouse Block J – Vet School*)

18:30 – 21:00 **Informal reception w/drinks and finger foods** (Victoria Gallery & Museum)

Thursday Sept 12th

08:00 – 08:45 Arrival at venue, registration - *Sherrington Lecture Theatres*
08:45 – 09:00 Opening of the conference
09:00 – 10.30 **Session 1** (Chair: Dr John Tulloch) – *Sherrington Lecture Theatres*

- **Prof Lucy Easthope** (1 hr)
 - Professor in Practice of Risk and Hazard, University of Durham
 - Considering animals in international disaster planning
- **Dr David Edwards** (30min)
 - Health Protection Consultant, East of England, UK Health Security Agency
 - Case studies in human public health to zoonotic outbreaks and risk

10:30 – 11:00 Coffee break & poster viewing - *Sherrington Lecture Theatres*

11:00 – 12.30 **Session 2** (Chair: Prof Gina Pinchbeck) – *Sherrington Lecture Theatres*

- **Dr Charlotte Robin** (30min)
 - Emerging Infections and Zoonoses, Clinical & Public Health, UKHSA
 - Understanding human behaviour to mitigate zoonotic risks
- **Dr Genever Morgan** (30min)
 - Lecturer in Small Animal Clinical Skills, University of Liverpool
 - Tackling the public health risks associated with raw meat diets for dogs
- **Prof Chris Jewell** (30min)
 - Professor in Statistics, Lancaster University
 - Translating uncertainty and risk to policy makers

12.30 – 13:30 **Lunch break & poster viewing – Victoria Gallery & Museum**

13:30 – 15:30 **Parallel Workshops - Waterhouse Block J – Vet School**
(Hybrid status will dependent on nature of the workshops)

A **Dr Tineke Kramer (Wageningen Bioveterinary Research)**
20 years of One Health: proven concept or empty shell for “getting ahead of the risks”?

B **Dr Jorge Pinto Ferreira (Food and Agriculture Organization of the United Nations (FAO))**
AMR Codex standards...what is it on them?

C **Dr Emanuele Ricci and Prof Lorenzo Ressel (University of Liverpool)**
3D models for macroscopic Veterinary Pathology

15:30 – 16:00 Coffee break & poster viewing - *Sherrington Lecture Theatres*

16:00 – 18:00 **Annual General Meeting (Chair: Prof Len Lipman) – Sherrington Lecture Theatre**

7.15pm **Mersey Ferry (Pier Head, Georges Parade, Liverpool, L3 1DP) – Please be on time, otherwise the Ferry will sail without you.**

Friday Sept 13th

08:30 – 09:30 **Council meeting** (Council members only) - *Waterhouse Block J*

08:30 – 09:00 Arrival at venue, poster viewing, online log-in

09:00 – 10:30 **Session 3 – Resident short presentations** – *Sherrington Lecture Theatre*
(Chairs: Liverpool Residents)

- 1 **Lore Heyvaert** (Ghent University) - Genomic diversity of *Arcobacter* spp. in pigs
- 2 **Michał Majewski** (Technical University of Denmark) - Development of a risk-based code set for post-mortem inspection of broilers
- 3 **Yvette de Gues** (Utrecht University) - Goat milk and faecal microbiome around parturition: a longitudinal study
- 4 **Keli Gerken** (University of Liverpool) - First, do no harm: Field evaluation of an independent Rift Valley fever vaccination campaign and the impact on pregnant livestock in a semi-pastoral area in Kenya
- 5 **Davide Pagnossin** (University of Edinburgh) - Carcass collection in outbreaks of highly pathogenic avian influenza in wild birds: does it make a difference?
- 6 **Sarah Seery** (APHA) - Trends in *Mycobacterium bovis* prevalence in badgers across Wales, 2017-2023

10:30 – 11:00 Coffee break & poster viewing - *Sherrington Lecture Theatres*



11:00 – 12:30 **Session 4** (Chair: Dr Dragan Antic) - *Sherrington Lecture Theatre*

- **Prof Kurt Houf** (30 min)
 - Professor at Ghent University
 - Emerging and neglected foodborne hazards
- **Ms Chloe Thomas** (30 mins)
 - Exposure Assessment and Trade Team, Food Standards Agency
 - Development of the Oyster Risk Profile
- **Prof Gulbanu Kaptan** (30 mins)
 - Associate Professor in Behavioural Decision Making, University of Leeds
 - Understanding food hygiene behaviours in kitchens

12:30 – 13:00 **Closing session**

13:15 – 14:00 **Lunch – Victoria Gallery & Museum**

Speaker Profiles

Pre-conference workshop - Introduction to veterinary qualitative research

Dr Rebecca Smith - Research Associate, University of Liverpool

Rebecca is a veterinarian and social scientist. Her interdisciplinary research explores decision-making by animal owners and veterinarians to understand how these relationships impact animal health and welfare. Rebecca's current postdoctoral research uses ethnographic methods and is focussed on chronic pain management in horses. Alongside her research, Rebecca is undertaking specialist training in animal welfare science, ethics and law with the European College of Animal Welfare and Behavioural Medicine.



Dr Tamzin Furtado – Lecturer, University of Liverpool

Tamzin is a social scientist with a background in global health, and has a specific interest in the interconnections between human and animal health and wellbeing. She completed a PhD at the University of Liverpool studying how we can improve the management of obesity in horses, particularly focusing on horse-human relationships and human behaviour change. She now works on projects covering a wide range of aspects of understanding human behaviour in order to improve companion animal welfare, and in using social sciences to find out more about how we can help people to change



Session One

Prof Lucy Easthope - Professor in Practice of Risk and Hazard at the University of Durham

Lucy is a leading authority on recovering from disaster. She has been an advisor for nearly every major disaster of the past two decades, including the 2004 tsunami, 9/11, the Salisbury poisonings, Grenfell, the Covid-19 pandemic and most recently the war in Ukraine. She challenges others to think differently about what comes next after tragic events, and how to plan for future ones. Lucy grew up in Liverpool and has a degree in law, a PhD in medicine and a Masters in risk, crisis and disaster management. She is a Professor in Practice of Risk and Hazard at the University of Durham where she Co-Founded the After Disaster Network, is a Fellow in Mass Fatalities and Pandemics at the Centre for Death and Society, University of Bath and a Research Associate at the Joint Centre for Disaster Research, Massey University, New Zealand.



Dr David Edwards - Lead Consultant in Health Protection, UK Health Security Agency

After an academic career in Veterinary Public Health and Epidemiology he joined the National Health Service in 2005. He completed public health specialty training in 2015 and joined Public Health England as a Consultant in Health Protection. In 2016 becoming the lead East of England regional health protection team lead for emergency planning resilience and response (EPRR) and Zoonoses. He enjoys providing public health leadership for the wide range of incidents that occur regionally and nationally. Including for Avian Influenza, Lassa Fever, Diphtheria, tuberculosis and Monkeypox. He was a Regional Incident Director during the COVID pandemic.



Session Two

Dr Charlotte Robin - Principal Scientist, Emerging Infections and Zoonoses, UK Health Security Agency

Charlotte is an epidemiologist and behavioural scientist with a background in infectious disease epidemiology and a specific interest in zoonotic infections. Charlotte is particularly interested in the interconnections between animals and humans in the context of health protection. She completed a PhD at the University of Liverpool studying how people understand, interpret and respond to the risk of zoonoses in the UK, specifically rodent-borne infections.

Charlotte is currently working as a Principal Scientist in the Emerging Infections and Zoonoses (EIZ) team at UKHSA. The EIZ team is responsible for the routine surveillance of zoonotic pathogens, incident response and the development of national policy and guidance in addition to supporting research and evaluation for zoonotic infections.



Dr Genever Morgan - Lecturer in Small Animal Clinical Skills, University of Liverpool

Genever graduated from the University of Liverpool with a Zoology degree in 2008, and went on to complete her veterinary degree at the Royal Veterinary College (RVC) in 2012. Gen worked in a variety of first opinion small animal practices, including at the University of Liverpool and working as a feline shelter vet at the RSPCA/RVC. She completed her PhD at the University of Liverpool in 2023 which investigated antimicrobial resistance and the public health impact of feeding raw meat diets to dogs, and now splits her time between teaching and research as a Lecturer at the University of Liverpool.



Prof Chris Jewell – Professor in Statistics, Lancaster University

Chris works at the interface between epidemiology, infectious disease modelling, statistics, and high performance computing. He originally trained as a veterinary surgeon, but became interested in epidemics through his experience working on the foot and mouth disease outbreak in the UK in 2001. He believes strongly in application-focused statistical research and in effective communication of scientific outputs.

As a trained vet, Chris' interests lie in decision support systems for disease outbreak response, public health and zoonotic diseases. He has applications in communicable diseases such as foot and mouth disease, vector-borne diseases such as theileriosis, and zoonoses such as campylobacteriosis. In computational statistics, he works on MCMC methods for inference on stochastic dynamical models. He has a particular interest in high performance computing techniques for applying modern statistical methods to real-time inference on large population datasets.



Session Four

Prof Kurt Houf - Professor, Ghent University

Kurt Houf is a veterinarian working as professor at Ghent University and as visiting professor at the University of Antwerp. He specialized with a master after master in veterinary public health, and as diplomate of the European College of Veterinary Public Health. He did internships at national and international research institutes, and his doctoral research was on the prevalence and transmission of *Campylobacteraceae*. He is a member of the Royal Academy of Medicine of Belgium, and of the scientific committee of the Belgian Federal Food Agency. His research is on the safety of food of animal origin throughout the food chain, with a focus on emerging and neglected bacterial pathogens and pathobionts. His expertise is within genomic characterization, and interactions within microbial communities. His research group is part of an interfaculty lab of microbiology, and is a multidisciplinary team of biotechnologists, biologists, biochemists, veterinarians, engineers, mathematicians, (bio)computer scientists and technicians. The lab is also the basis of the Belgian bacterial culture collection (BCCM-LMG).



Ms Chloe Thomas - Senior Trade Risk Assessor - Exposure Assessment & Trade, Food Standards Agency

The oyster risk profile is the first of a number of potential risk profiles that the Food Standards Agency (FSA) may be commissioned to carry out on behalf of the UK Office for Sanitary and Phytosanitary Trade Assurance (UK SPS Office) at the Department for Environment, Food and Rural Affairs (DEFRA) to inform the potential risks associated with different products of animal origin (POAO) imported into GB from any trading partner. It considers the hazards that may be associated with imported oysters which may pose a risk to public health and potential mitigation strategies



Prof Gulbanu Kaptan – Associate Professor in Behavioural Decision Making, Leeds University

My research is on the psychology of decision-making, with a special interest in food choice, designing risk (benefit) communications for informed decision-making, and interventions for behaviour change. I have led many UK and internationally funded projects, including those funded by UK Research and Innovation (UKRI), the Food Standards Agency (FSA), Quadram Institute's Food Safety Research Network (FSRN), and the European Commission.

I am a member of the Food and Agriculture Organisation's (FAO) Working Group on leveraging behavioural science and a former member of the European Commission's Consumer Food Waste Forum. I was the academic lead of the FSA's Kitchen Life-2 project and FSRN's project on understanding food hygiene behaviours in homes.



Workshop Details

Workshop A: 20 years of One Health: proven concept or empty shell for “getting ahead of the risks”? – Dr Tineke Kramer, Wageningen Bioveterinary Research

Objectives:

The main objective of the workshop is to answer the question whether the promise of One Health has been fulfilled or has the term become so weakened by overuse that it now has little meaning? This is relevant since there are urgent challenges worldwide that affect the health of humans, animals and the environment, and a systematic collaborative, and interdisciplinary approach to these issues seems apparent and needed to “get ahead of the risks”. Think about climate change, future food systems and climate adaptive cities. Is One Health the way forward and if so, how can we make or keep One Health effective and what kickstart may be required for more concrete actions?

Description:

The term One Health was coined at the 2004 meeting of the US Wildlife Conservation Society, following several emerging zoonotic disease outbreaks in the early years of the 21st century. During the meeting of the Wildlife Conservation Society, 12 recommendations were formulated towards an integrated approach to health. Since then, One Health has been globally adopted by many research institutes and international agencies (e.g. FAO, WOAH, WHO) as an important idea or strategy forward, and many largescale research projects worldwide have integrated the term.

During the workshop we will invite speakers for and against One Health as a useful concept from the veterinary, medical and environmental field, giving 3 or 4 presentations. The talks will present European and global perspectives, followed by a panel discussion where also the audience will be invited through Mentimeter (or equivalent) to give their opinions and vote on the questions. Em. Professor of Virology dr. Paul Gibbs (University of Florida) and dr. Wim van der Poel, Professor “Emerging and Zoonotic Viruses” (Wageningen University & Research), have already agreed to present and be part of the expert panel.

Organiser bio:

Tineke Kramer is a veterinarian and diplomate of the ECVPH. She is currently working at Wageningen Bioveterinary Research (WBVR), part of Wageningen University, as Lead One Health. One Health is one of the 3 focus themes of WBVR. Tineke is also an independent adviser on zoonotic disease risk assessment for the Minister of Agriculture of the Netherlands, as a member of the Advisory Board on the Pets and Hobby Animals List.

Workshop B: AMR Codex standards...what is it on them? – Dr Jorge Pinto Ferreira (Food and Agriculture Organization of the United Nations (FAO))

Objectives:

The overall goal of the workshop is to introduce the participants to the latest Codex Alimentarius AMR standards and guidelines, meaning:

- Guidelines for Risk Analysis of Foodborne AMR (CXG 77-2011)
- Guidelines on Integrated Monitoring and Surveillance of Foodborne AMR (CXG 94-2021)
- Code of Practice to minimize and contain Foodborne AMR (CXC 61-2005/2021)

AMR is unanimously recognized as one of the current top global health threats, causing millions of human deaths annually, and with a very significant impact in economic terms, as well as in terms of animal and plant health, food safety and food security. Codex (AMR) standards are developed with two main goals: 1) protect consumer's health; 2) ensure fair trade. The standards adopted in 2021 represent an extraordinary achievement, as they are the result of a consensus driven negotiations, that took place over a period of years, with representatives of "all" the countries in the world. The next necessary step is to focus on their implementation, at the country level, the topic of this workshop.

Description:

Scenario: The Republic of One Health is interested in starting to commercialize different food items with the Republic of Tradeland. The representatives of the Republic of One Health at the Task Force on Antimicrobial Resistance (TFAMR) negotiations are fully aware of the importance and demands that the new Codex texts/standards mean, and are very supportive of them. However, they are facing very strong resistance, at the national level, to implement them, coming from four different groups, for different reasons:

1. Policymakers/government: have other agenda priorities
2. Farmers/food producers: see them as an extra burden
3. Veterinary services: for them it means extra work, with no additional benefits
4. Consumers: lack trust on policy makers, and are not interested in meaningless papers

Now that you are aware of the content of these Codex texts (note: an initial short presentation will be done, before the group exercise), in four different groups (as above), please address the following questions:

- How do you convince your specific group to invest/get engaged on this?
- What is in it for them? Benefits/advantages?
- What would be your road map for implementation of your plan?

Please brainstorm as a group for about 45 minutes, and then take 45 other minutes to prepare a summary presentation to be afterwards shared with the all group (20 minutes presentation + 10 for discussion).

Organiser bio:

Jorge Pinto Ferreira is a Doctor of Veterinary Medicine, originally from Portugal, with five years of clinical experience; a Masters in Food Safety; a PhD (as Fulbright scholar) in Population Medicine (with a graduate certificate in public policy). Doctoral studies were conducted in a partnership between the College of Veterinary Medicine of North Carolina State University (USA) and the medical school of Duke University (USA) and were dedicated to the epidemiological aspects of the transmission of Methicilin-resistant Staphylococcus aureus (MRSA). In 2017 he also got a diploma from the European College of Veterinary Public Health. Between 2012-2017 he worked as a consultant in Switzerland, (SAFOSO AG), and from October 2017 until June 2021 worked for the World Organisation for Animal Health (OIE), as the Deputy Head of the Antimicrobial Resistance (AMR) and Veterinary Products Department. Joined the Food and Agriculture Organization of the United Nations (FAO), in July 2021, as Food Safety Officer. Currently, he is the Lead Technical Officer of a 10 million US dollars 5 years project, being conducted in six countries (Bolivia, Cambodia, Colombia, Mongolia, Nepal and Pakistan), that focus on the implementation of the latest Codex Alimentarius AMR standards.

Workshop C - 3D models for macroscopic Veterinary Pathology – Dr Emanuele Ricci and Dr Lorenzo Ressel (University of Liverpool)

Objectives:

The workshop will provide the participants with the theoretical (and possible some practical) skills to understand the process of photogrammetry and 3D modelling of animal tissues. This has large applications for improving teaching of gross and histopathology via virtual reality models, as well as improving research in these areas. These methodologies could easily be transferred to veterinary public health teaching, especially around teaching students about detecting lesions in the abattoir.

Description:

Topic: This will be a workshop about application of photogrammetry to animal tissues for the creation of 3D models.

Didactical concept: To teach principles of photogrammetry technique applied to animal tissues. It will highlight how these models can be used for teaching and research, and can be applied in the field of veterinary public health.

Organiser Bios:

Lorenzo Ressel is Professor of Veterinary Pathology; Dr Emanuele Ricci is Senior lecturer in Veterinary Pathology. Together they developed Photogrammetry in veterinary pathology as it can be seen in this video: <https://www.youtube.com/watch?v=mTiZ26pSr6M> , and in this publication: <https://jvme.utpjournals.press/doi/abs/10.3138/jvme-2023-0159> (Photogrammetry: Adding Another Dimension to Virtual Gross Pathology Teaching. Together they run the DiMO lab. The DiMo (Digital Morphology) laboratory is a fully equipped end-to-end facility to handle acquisition and processing of gross and histological images, including scanning, image analysis, deep learning and 3D printing of models. Image analysis of specimens with integration of artificial intelligence dramatically increases reproducibility of data and automation applied to research and diagnostics.