20TH ANNUAL BC ONE HEALTH & ZOONOSES SYMPOSIUM

WEDNESDAY NOVEMBER 24TH, 2021

Zoom Webinar

PRESENTED BY:
BCCDC; BC MINISTRY OF AGRICULTURE, FOOD AND FISHERIES; & BC MINISTRY OF FOREST, LANDS, NATURAL RESOURCES OPERATIONS, AND RURAL DEVELOPMENT
## WELCOME

9:00 - 9:05

**WELCOME**

Erin Fraser, BCCDC & Brian Radke, BC Ministry of Agriculture, Food and Fisheries

9:05 - 9:20

**KEYNOTE ADDRESS**

Jane Parmley, University of Guelph

How do you "do" one health?

## SESSION 1

9:20 - 9:40

**UNUSUAL RABIES ACTIVITY IN SKUNKS NEAR NELSON, BC**

Amanda Anderson, Interior Health
Caeley Thacker, BC Ministry of Forest, Lands, Natural Resource Operations and Rural Development

9:40 - 10:00

**RABIES IN AN IMPORTED DOG, ONTARIO 2021**

Maureen Anderson, Ontario Ministry of Agriculture, Food, and Rural Affairs

10:00 - 10:20

**ESTIMATING SPATIAL AND TEMPORAL TRENDS OF CANINE IMPORTATION INTO CANADA, 2013 - 2019**

Jillian Blackmore, Public Health Agency of Canada

10:20 - 10:40

**WEST NILE VIRUS SURVEILLANCE IN WASHINGTON STATE**

Mary Chan, Department of Health, Washington State

## SESSION 2

10:55 - 11:15

**EPIDEMIOLOGY AND INVESTIGATION OF LOCALLY-ACQUIRED CYCLOPORA IN CANADA**

Nicole Haywood, Public Health Agency of Canada

11:15 - 11:35

**SALMONELLA DUBLIN INVESTIGATION AND MANAGEMENT PROGRAM IN BRITISH COLUMBIA**

Ellen Boyd, BC Ministry of Agriculture, Food, and Fisheries

11:35 - 12:00

**URBAN WILDLIFE: COYOTE - HUMAN CONFLICTS IN STANLEY PARK, VANCOUVER**

Caeley Thacker, BC Ministry of Forest, Lands, Natural Resource Operations and Rural Development
SESSION 3

Moderators: Theresa Burns, Canadian Animal Health Surveillance System and Centre for Coastal Health
Erin Fraser, BC Centre for Disease Control

12:30 - 1:45  CASE STUDY

- Susan Cork, University of Calgary
- Isabelle Coulignier, University of Calgary
- Elizabeth Dykstra, Department of Health, Washington State
- Stefan Iwasawa, BC Centre for Disease Control and Centre for Coastal Health
- Doris Leung, Canadian Animal Health Surveillance System
- Muhammad Morshed, BC Centre for Disease Control

SESSION 4

2:00 - 2:20  DESCRIPTIVE EPIDEMIOLOGY OF COMPANION ANIMAL DERMATOPHYTOSIS IN A CANADIAN PACIFIC ANIMAL SHELTER SYSTEM
Emilia Gordon, BCSPCA

2:20 - 2:40  COVID-19 AND ANIMALS CURRENT EVIDENCE AND GUIDANCE
Logan Flockhart, Public Health Agency of Canada

2:40 - 2:50  CLOSING REMARKS
Morshed Muhammad, BC Centre for Disease Control
AMANDA ANDERSON

*Interior Health Authority*

Amanda Anderson is a Team Leader at Interior Health, where Amanda leads a team of specialists in Environmental Assessment, including animal contacts and emergency management for wildfires and spills. Amanda has a Master of Science in Environment and Management and a published author among other distinctions in the field. She is an Environmental Health Officer dedicated to the protection of public health, active in food and water safety and pandemic response.

When not traveling abroad, such as the past couple years, Amanda enjoys hiking with her mini Australian Shepard, Bailey. She is from Kelowna, BC and can be contacted by email at Amanda.Anderson@interiorhealth.ca or go to www.interiorhealth.ca.

MAUREEN ANDERSON

*Ontario Ministry of Agriculture, Food and Rural Affairs*

Maureen Anderson is a graduate of the Ontario Veterinary College and is ACVIM board-certified in large animal internal medicine. Her graduate and post-graduate work has a strong focus on infectious disease control and zoonotic diseases in particular. She is currently Lead Veterinarian - Animal Health and Welfare at the Ontario Ministry of Agriculture, Food and Rural Affairs, where she continues to work in areas bridging animal and public health, including rabies and antimicrobial stewardship, and co-leads the companion animal Ontario Animal Health Network (OAHN).

JILLIAN BLACKMORE

*Public Health Agency of Canada*

Jill Blackmore is an Epidemiologist with the Public Health Agency of Canada’s Domestic and International Zoonoses Technical Team. She received her MSc in Epidemiology from the University of Guelph in 2013 and has over 15 years of experience working in veterinary and public health settings. This combined experience has cultivated her very keen interest in zoonotic disease specifically those associated with companion animals. Her current role involves the surveillance of domestic zoonoses, with a large focus on rabies.

ELLEN BOYD

*BC Ministry of Agriculture, Food, and Fisheries*

Dr. Ellen Boyd is a veterinarian with experience in disease surveillance and regulatory medicine. She is currently a graduate student at the University of British Columbia School of Population and Public Health and her thesis will be looking at establishing prevalence and identifying risk factors for Salmonella dublin in dairy cattle in BC. Her thesis supervisor is Dr. Chelsea Himsworth, veterinary epidemiologist and pathologist at the BC Ministry of Agriculture.
THERESA BURNS
**Canadian Animal Health Surveillance System**

Theresa received her DVM (with distinction) and MSc in Theriogenology from the Western College of Veterinary Medicine and her PhD in Epidemiology from the University of Guelph. She is Board Certified with the American College of Theriogenologists and is a member of the College of Veterinarians of British Columbia and the Canadian Veterinary Medical Association.

MARY CHAN
**Department of Health, Washington State**

Mary Chan is an epidemiologist in the Zoonotic, Vector-borne, and Cross-cutting Disease Program at the Washington State Department of Health. She holds an MPH in Epidemiology and Certificate in Global Health from the University of Washington. She enjoys using code and learning new coding techniques to manipulate and analyze large datasets, such as mosquito surveillance data.

ISABELLE COULOIGNER
**University of Calgary**

Isabelle Couloigner, Fr.Ing, PhD, is a Research Associate in Spatial Analytics/Modelling both at the department of Geography and of Ecosystem and Public Health at the University of Calgary. She received her Engineering diploma from École Louis de Broglie (France) and her PhD from École des Mines de Paris / Université de Nice-Sophia Antipolis (France). She was a Faculty member in the department of Geomatics at the University of Calgary for 8 years before going into geomatics consulting and private teaching. She is an expert in geospatial analytics working with Remote Sensing, GIS and ground-based data for urban and environmental monitoring/modelling. She uses different Image Processing toolbox/software (e.g. Matlab, IDL/ENVI), ESRI ArcGIS and R software for geospatial data analysis and modelling.

SUSAN CORK
**Faculty of Veterinary Medicine, University of Calgary**

Dr Cork joined the University of Calgary, Faculty of Veterinary Medicine in 2008 as founding Head of the Department of Ecosystem and Public Health. Prior to joining the faculty, Dr Cork spent five years with the New Zealand Ministry of Agriculture where she held a number of policy and management positions. Dr Cork completed her Veterinary degree (Massey University) in 1987 and spent 3 years in veterinary practice (Fiji & UK) before returning to New Zealand to complete a PhD in 1994. During her PhD she provided diagnostic support for wildlife organizations in partnership with the New Zealand Department of Conservation. In 1995, Dr Cork accepted the position of veterinary diagnostic laboratory manager in the Himalayan Kingdom of Bhutan, this was part of a European Union (EU) funded project to strengthen veterinary services in Asia. In 2003, after 6 years in the UK working in government and academia, she returned to New Zealand to join Government Service and obtained a Diploma in Public Policy from the School of Government, Victoria University. Dr Cork is currently a Professor in Ecosystem and Public Health and recently joined the Board of directors of Prairie Diagnostic Services, Saskatoon. Her research interests include global health, infectious diseases, disease ecology and veterinary public health.

Website: [https://vet.ucalgary.ca/contact-us/susan-cork](https://vet.ucalgary.ca/contact-us/susan-cork)
NICOLE HAYWOOD
Public Health Agency of Canada
Nicole is an epidemiologist with the Outbreak Management Division in PHAC’s Centre for Foodborne, Environmental and Zoonotic Infectious Diseases. In her current role, she is responsible for investigating multi-jurisdictional outbreaks of enteric illness. She also supported federal surveillance of COVID-19 in PHAC’s Health Portfolio Operations Centre. Her professional interests include emergency management, stakeholder engagement and partnership building, and data modernization. Nicole has a M.Sc. in Epidemiology from Queen’s University.

ERIN FRASER
Public Health Veterinarian, BC Centre for Disease Control
Erin is a public health veterinarian at the BC Centre for Disease Control. She is a graduate of the University of Guelph and has over 20 years of experience as an epidemiologist, public health veterinarian, researcher, and executive director. She co-founded Veterinarians without Borders – Canada and was the organization’s first executive director. Her current work at the BCCDC includes surveillance of zoonotic diseases, foodborne pathogens, antimicrobial resistance in companion animals, and climate change and tickborne diseases.

LIZ DYKSTRA
Washington State Department of Health
Dr. Liz Dykstra is the Public Health Entomologist for the Washington State Department of Health. She provides leadership and subject matter expertise on vector-borne diseases and arthropods of public health importance for the state. Dykstra is also an adjunct associate professor in the Department of Entomology at Washington State University and an affiliate faculty member with the School of Public Health, University of Washington. Earlier in her career, she served as a Peace Corps Volunteer in Senegal, West Africa and as an active duty entomologist in the U.S. Navy. She continues to serve in the U.S. Navy Reserves.

LOGAN FLOCKHART
Public Health Agency of Canada
Dr. Logan Flockhart is an epidemiologist with the Policy Integration and Zoonoses Division (PIZD), Centre for Food-borne, Environmental and Zoonotic Infectious Diseases (CFEZID), Public Health Agency of Canada (PHAC). Since January 2020, she has been significantly involved in the response to COVID-19 at the human-animal interface. Dr. Flockhart holds a BSc in microbiology and a DVM from the University of Saskatchewan and a MPH from the University of Guelph. Prior to working with PIZD, she worked as a small animal veterinarian in British Columbia and as an epidemiologist with the Food-borne Disease and AMR Surveillance Division, CFEZID, PHAC.

NANCY AMES
Washington State Department of Health
Nancy is a public health veterinarian at the Washington State Department of Health. She is a graduate of the University of California, Davis and has over 20 years of experience as a public health veterinarian, researcher, and executive director. She has worked in various roles, including as an epidemiologist with the Food-borne Disease and AMR Surveillance Division, CFEZID, PHAC. Her current work at the WSDH includes surveillance of zoonotic diseases, foodborne pathogens, antimicrobial resistance in companion animals, and climate change and tickborne diseases.

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CAELEY THACKER
Ministry of Forests, Lands, Resource Operations and Rural Development
Caeley Thacker is the wildlife veterinarian with the Ministry of Forests, Lands, Resource Operations and Rural Development. Caeley grew up on Vancouver Island where she developed her love of wild places and animals, which with fostering by her exceptional mentors turned into an interest in wildlife health and conservation. After vet school and private mixed animal practice in New Zealand, she completed graduate studies at the University of Calgary focusing on Stone’s sheep health finally returning to the BC Wildlife Health Program in 2020.

JANE PARMLEY
University of Guelph
Jane Parmley is an Associate Professor in the Department of Population Medicine at the University of Guelph. She trained as a veterinarian at the University of Saskatchewan and has a PhD in Population Medicine from the University of Guelph. Throughout her career, Jane has worked on complex but fascinating health problems such as antimicrobial resistance and emerging zoonotic diseases with government, non-governmental and university-based organizations. Using a One Health approach in her research, Jane uses systems thinking to consider the many drivers that influence health and the interconnections between humans, animals and our shared ecosystems. She collaborates with other disciplinary experts and knowledge holders to advance the implementation of One Health and find creative solutions to complex health problems.

MORSHED MUHAMMAD
BC Centre for Disease Control
Dr Morshed is a clinical microbiologist and the program head of zoonotic diseases, emerging pathogens and parasitology at the BCCDC Laboratory. He is also a clinical professor in the UBC Department of Pathology & Laboratory Medicine. He received his PhD from the Yamaguchi University School of Medicine (Japan) in 1994. He completed his specialty training at the Research Institute of Tuberculosis in Tokyo and at the College of Natural Resources, University of California (Berkeley). Dr. Morshed is recognized by the national and international research community for his expertise on spirochaetal diseases.

STEFAN IWASAWA
BC Centre for Disease Control & Centre for Coastal Health
Stefan Iwasawa is a Vancouver Island University Graduate and the project coordinator for the Ticks and Climate Change 3 West project at the British Columbia Centre for Disease Control. He is also a project coordinator for the Centre for Coastal Health where he has worked on a variety of projects for the last 14 years. He has a wide range of interests and experience in the field of veterinary epidemiology.

DORIS LEUNG
Canadian Animal Health Surveillance System
Dr. Doris Leung is a communications lead with the Canadian Animal Health Surveillance System (CAHSS). Her professional interests are in disease surveillance, veterinary epidemiology, and health communication. In addition to her work with CAHSS, she is a veterinary epidemiologist with the Ministry of Agriculture, council member of the College of Veterinarians of BC, and regional director of Community Veterinary Outreach in Vancouver.

JANE PARMLEY
University of Guelph
Jane Parmley is an Associate Professor in the Department of Population Medicine at the University of Guelph. She trained as a veterinarian at the University of Saskatchewan and has a PhD in Population Medicine from the University of Guelph. Throughout her career, Jane has worked on complex but fascinating health problems such as antimicrobial resistance and emerging zoonotic diseases with government, non-governmental and university-based organizations. Using a One Health approach in her research, Jane uses systems thinking to consider the many drivers that influence health and the interconnections between humans, animals and our shared ecosystems. She collaborates with other disciplinary experts and knowledge holders to advance the implementation of One Health and find creative solutions to complex health problems.

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