

Curriculum Vitae

- I. NAME:** Jeffrey B. Bender
- II. BIRTH DATE:** August 30, 1961
- III. BUSINESS ADDRESS:** University of Minnesota
Veterinary Preventive Medicine
136F ABLMS
1354 Eckles Avenue
St. Paul, MN 55108
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E-Mail: bende002@umn.edu
- IV. EDUCATION:** 1985 - B.S. (Biology) California Polytechnic University, San Luis Obispo, CA
1989 – DVM (Veterinary Medicine) University of MN, St. Paul, MN
1995 - M.S. (Veterinary Medicine, focus epidemiology) University of MN, St. Paul, MN
- V. M.S. THESIS TITLE:** Role of the Veterinary Diagnostic Laboratory in Animal Health and Disease Surveillance, January, 1995.
- VI. PRESENT TITLE/POSITION:** Professor
Hospital Epidemiologist
Department of Veterinary Population Medicine
College of Veterinary Medicine
University of Minnesota
- OTHER ACADEMIC APPOINTMENTS:**
Adjunct Professor Chiang Mai University, College of Veterinary Medicine (2015 – present)
Adjunct Assistant Professor School of Public Health (Division of Environmental and Occupational Health)
Assistant Professor Veterinary Diagnostic Medicine (2000-2003)
Graduate School School of Public Health (Division of Epidemiology, Division of Environmental and Occupational Health, Division of Public Health Practice)
College of Science and Engineering (Masters of Science in Security Technology, 2006 - present)
- VII. BOARD CERTIFICATION** Diplomate of the American College of Veterinary Preventive Medicine, 2001
- VIII. PROFESSIONAL POSITIONS:**
- 2015 - Division Head, Veterinary Public Health, College of Veterinary Medicine, University of Minnesota, St. Paul, MN
- 2012 - Co-Director of the NIOSH supported - Upper Midwest Agricultural Health and Safety Center
- 2012 - 2014 Co-Director for Human-Animal Interface Studies – Minnesota Center of Excellence for Influenza Research and Surveillance

2011 -	Professor, Veterinary Population Medicine, College of Veterinary Medicine, University of Minnesota, St. Paul, MN
2011 – 2014	Special Government Employee (SGE) – Food and Drug Administration – Science Advisory Board
2008 - 2012	Director for the Center for Animal Health and Food Safety, University of Minnesota
2007 - 2008	Co-Director for the Center for Animal Health and Food Safety, University of Minnesota
2006 - 2011	Division Head, Veterinary Public Health, College of Veterinary Medicine, University of Minnesota, St. Paul, MN
2006 - 2011	Associate Professor, Veterinary Population Medicine, College of Veterinary Medicine, University of Minnesota, St. Paul, MN
2005 -	Hospital Epidemiologist, Veterinary Medical Center, University of Minnesota
2000 - 2006	Assistant Professor, Veterinary Population Medicine, College of Veterinary Medicine, University of Minnesota, St. Paul, MN
1997 – 2000	State Public Health Veterinarian, Minnesota Department of Health
1995 – 2000	Infectious Disease Epidemiologist; Foodborne, Vectorborne and Zoonotic Unit, Minnesota Department of Health
1994 – 1998	Associate Veterinarian, Minnesota Veterinary Hospital, Shoreview, MN
1991 – 1994	Research and Teaching Assistant, Clinical and Population Sciences, College of Veterinary Medicine, University of Minnesota, St. Paul, MN
1990 – 1991	Associate Veterinarian, Minnesota Veterinary Hospital, Shoreview, MN
1989 – 1990	Associate Veterinarian, Countryside Veterinary Clinic, New Richmond, WI

IX. LICENSURE:

Veterinary Medicine: California (1989-2004), Minnesota (1989-2017), Wisconsin (1989-2017)

USDA Accreditation – Category II

X. PROFESSIONAL SOCIETY MEMBERSHIPS:

American Association of Small Ruminant Practitioners (1989-1999)
 American College of Veterinary Preventive Medicine (Diplomate, 2001)
 Credentials Committee
 American Veterinary Epidemiology Society (Diplomate, 2006)
 American Veterinary Medical Association (1987-present)
 Association of Professionals in Infection Control (2005 - 2014)
 Council of State and Territorial Epidemiologists (1996-present)
 Infectious Disease Society of America (Associate Member)
 International Society for Companion Animal Infectious Diseases (ISCAID) (2014 – present)
 Minnesota Veterinary Medical Association
 Member of the Public Health Committee since 1995, co-chair since 2002-2008
 National Association of State Public Health Veterinarians (1995-present)
 Society for Hospital Epidemiology Association (2014 – present)
 United States Animal Health Association (2000-2001)

XI. FOREIGN TRAVEL/EXPERIENCE:

Thailand and Vietnam (August 2015; January - February 2016; July - August, 2016)

Seminar on emerging disease in companion animals and precautions (PPE and disinfection) (Thailand)
Antimicrobial resistance case studies and regional surveillance (Vietnam)
Collaborative research on antimicrobial resistance (including regional policies and antibiotic stewardship)

Thailand and Vietnam (August 2015; January - February 2016)
Panel discussion/moderator at Prince Mahidol Conference sub-meeting on antibiotic resistance
Co-teach seminar on One Health leadership and antimicrobial resistance
Collaborative research on antimicrobial resistance (including regional policies and antibiotic stewardship)

Thailand (August 2014)
OIE sponsored workshop on development of teaching modules for Thai Veterinary Colleges

Thailand (February 2014)
Co-teach seminar on infectious disease surveillance with Chiang Mai University faculty

Thailand and Vietnam (May 2013)
Part of a USAID project to promote One Health approaches to disease detection and surveillance and help with research and teaching programs

China (May, 2012)
Meet with China Agricultural University and seminar on Veterinary Public Health – Mudanjiang City

Thailand (April, September 2011)
Review avian influenza research; meet with FAO, USAID, and Academic partners

Australia (July 2010)
University of Sydney – evaluation of Veterinary Public Health programs

Europe (February 2010, 2011)
Geneva (WHO), Paris (OIE), and Rome (FAO) – Intergovernmental organizations partnerships

Panama (April 2009)
One Health Proposal with CDC, Smithsonian, and Gorkas Institute

Chile (March 2009)
USDA funded teaching on disease surveillance

Thailand (October 2007 and January 2008)
Avian influenza research activities

Bolivia and Uruguay (April, 2006)
Cooperative research project on Johne's and Crohn's disease

Denmark (January, 2005)
National Pork Board sponsored grant to assess the impact of the antimicrobial growth promoter ban on human health

Brazil (June, 2004)
Coordinate a Department of Education Grant (Student exchanges in veterinary medicine and public health)

Bolivia (April, 2004)
Training and education of veterinary students and assessment of public health strategies

Uzbekistan (March 1994):
Developed project proposal for privatization of veterinary services and training of technicians and veterinarians. Funded by Christian Veterinary Mission.

Calgary, Canada (February 1992):
Oversaw veterinary student externships at feedlots and cow/calf operations.

XII. CONSULTANTSHIPS:

2014	Minnesota State Fair
2010	Hormel Corporation
2009	National Science Foundation (FDA ranking)
2005	Minnesota Emergency Readiness Education and Training (MERET)
2003, 2004	Minnesota Department of Health, Communicable Disease Reporting Rules
2002	Minnesota Cervid Advisory Board
2001	Minnesota Department of Agriculture - BSE Task Force
2001	Consultant, Minnesota Department of Health, Infectious Diseases in Child Care Settings
2001	Consultant, Minnesota Department of Health, Antibiotic Usage in Child Care Facilities Consultant, Minnesota Department of Health, Food Safety
2000	Consultant, Blue Ribbon Panel on Minnesota Avian Pneumovirus
1999	Consultant, Centers for Disease Control and Prevention, Development of Public Action Plan to Combat Antimicrobial Resistance
1999	External Reviewer, Generic Environmental Impact Statement on Animal Agriculture IV Health Topic: K – Human Health
1998	Consultant, Minnesota Renaissance Festival Pet Gate Policy
1997	Consultant, Centers for Disease Control and Prevention, Essential Surveillance and Outbreak Response Components of a State Foodborne Disease Prevention and Control Program

XIII. EDITORIAL AND REVIEW BOARDS:

American Journal of Public Health	Ad hoc reviewer
Am Society of Agricultural and Biologic Engineers	Ad hoc reviewer
Clinical Infectious Diseases	Ad hoc reviewer
Emerging Infectious Diseases	Ad hoc reviewer
Epidemiology and Infection	Ad hoc reviewer
Foodborne Pathogens and Disease	Ad hoc reviewer
Journal of Agromedicine	Ad hoc reviewer, Associate Editor (2014 – present)
Journal of the American Medical Association	Ad hoc reviewer
Journal of Food Protection	Ad hoc reviewer
Pediatric Infectious Diseases	Ad hoc reviewer
Preventive Veterinary Medicine	Ad hoc reviewer
Risk Analysis	Ad hoc reviewer
Vector-borne and Zoonotic Diseases	Ad hoc reviewer
Veterinary Dermatology	Ad hoc reviewer
Zoonoses and Public Health	Ad hoc reviewer

XIV. UNDERGRADUATE AND GRADUATE TEACHING:

Undergraduate (Minnesota Professional)
University of Minnesota, College of Veterinary Medicine

CVM 6923	Public Health and Community Medicine – Course Coordinator (2014 – present)
CVM 6030	Veterinary Community Medicine – Course Coordinator (1998, 2000-present)-Food hygiene, Food Safety and zoonotic diseases
CVM 6932	Introduction to non-domestic veterinary medicine (2009-present)-Occupational risk to zoo workers
CVM 6930	Medical Management of Zoo Animals (2001-2009)-Occupational risks to zoo workers
CVM 6473	Large Animal Infectious Diseases (2010-present)-Hospital infection control
CVM 6500	Veterinary Public Health Rotation (2000-2007, 2009, 2011, 2012)-Outbreak investigations, antimicrobial resistance, food irradiation, emerging zoonoses, rabies, and nosocomial infections
CVM 3502	Animal Health and Disease (2001-2002)-Agroterrorism, Food Safety
CVM 6013	Professional skills (2001-2005)-Disaster preparedness and management
CVM 6022	Overview of Animal Populations (2001-2007)-Veterinarians in Public Health

CVM 6500 Veterinary Public Health Rotation (guest lecturer 1997-1999)-Emerging Zoonoses
CVM 6030 Public Health and Community Practice-Guest lecturer (1995-1997, 1999)

University of Minnesota, College of Agricultural, Food and Environmental Sciences

FSCN 1102 Bioterrorism and Food

SsAg 1505 The Bugs Will Get Us

Graduate Teaching

University of Minnesota, College of Veterinary Medicine

VMED 5080 Directed Study (2012, 2013, 2014) – Problems in Veterinary Epidemiology

VMED 8090 Course Coordinator (2000 - 2011)-Epidemiology of Zoonoses and Diseases Common to Humans and Animals

VMed 5165/PubH 7100 (2001-2003) Foodborne Disease Surveillance

University of Minnesota, Technological Leadership Institute

ST 8110: Security Science and Technology Foundations (2010)

University of Minnesota, School of Public Health

PubH 7200-103 Minimizing transmission of infectious diseases during outbreaks: public health protection for you and your workforce (May 2016)

PubH 5335 Epidemiology and Control of Infectious Diseases (Guest Lecturer 1999 - 2014)

PubH 7212 Food System Biosecurity Threats (2002, 2004)

PubH 7100-110 Factors for the Emergence of Zoonotic Diseases (2004, 2006) (Course Coordinator)

PubH 7200 Application of EpiInfo in Epidemiologic Investigations (2005-2007) (Course Coordinator)

PubH 7217 Advances in Molecular Epidemiology Analysis (2003, 2005)

PubH 7200 Epidemiology of Foodborne Pathogens (2007, 2010) (Co-Course Coordinator)

PubH 7200-106 World Food Problems (2008, 2010) (Course Coordinator)

PubH 7200-119 Rapid Response to Food Emergencies - Coding and Traceback (2009)

PubH 7200-118 Public Health and Companion Animals (2012, 2014) (Course Coordinator)

PubH 7230-102 Infection Prevention across the Spectrum of Health Care Settings (2013) (Course Coordinator)

Teaching Training

MPH Field Experience Projects (1997-present)

2012	Cara Cherry	Risk Assessment of Minnesota Petting Zoos
2008	Jamie Umber	Infection control practices in a Veterinary Medical Center
2000	Daniel Tranter	Economic and social costs of rabid animal exposures
2000	Nicole Reynolds	Multi-drug resistant <i>Salmonella typhimurium</i> in cats
1999	Ann Fitzpatrick	Bioterrorism Preparedness Survey of State Veterinarians
1998	Leslie Nordgren	Evaluation of human and animal exposures to rabid animals

Minnesota Animal Control Association (1995 – 2002)

University of Minnesota, College of Medicine, Family Practice Residents

Guest lecturer (1999, 2009-present)

Undergraduate teaching project(s)

2007	Monique Franca	Brazil exchange program – Geographic information systems and WNV
2007	Michele Oliveria	Brazil exchange program – Geographic information systems and Anaplasma
2003	Jaime Cho	Underreporting of Equine WNV – UROP grant
1998	Mary Van Buesekom	Outcomes of reported dog bites in two Minnesota Cities

Teaching/Research Assistant, College of Veterinary Medicine-Public Health Senior Rotations (1991-1993)

XV. COMMITTEES (General):

2016 One Health Antibiotic Stewardship 5 year strategic plan (Minnesota Department of Health)

2014	Strategic Planning-Grand Challenge Curriculum, University of Minnesota
2013	AVMA – Task force on Antimicrobial Stewardship in Companion Animals – Chair
2013 - 2014	Global Spotlight Advisory Committee – University of Minnesota
2012	NASOHO and NASPHV Committee on Recommendations to Prevent Influenza Transmission at County and State Fairs
2012	National Pork Board – Health and Safety Committee
2010	FDA Science Advisory Board, Global Health Subcommittee - Chair
2009 - 2011	National Academies of Science – Ranking of FDA Product Categories
2008 - 2013	Credential Committee – American College of Veterinary Preventive Medicine
2008 - 2013	Healthy Foods/Healthy Lives Advisory Committee, University of Minnesota
2006 - 2012	Minnesota Emergency Readiness Education and Training Advisory Committee
2004 - 2005	Search for Veterinary Public Health Director
2003 - present	Veterinary Medical Center Infection Control Committee – Chair, 2008-present
2003- 2004	Grant Resources Task Force
2003- 2005	Education Health and Safety Council (Academic Health Center)
2002- 2008	National Association of State Public Health Veterinarians – Compendium of measures to prevent disease and injury associated with animals in public settings.
2001	Search Committee – Applied Genomics, Veterinary Pathobiology
2001	College of Veterinary Medicine, Health and Safety Committee
2000	Search Committee – Director for The Center for Animal Health and Food Safety
2000 - 2007	Committee on Curriculum and Educational Policy-College of Veterinary Medicine
1999	Minnesota Pandemic Influenza Control
1998 - 1999	Minnesota Bioterrorism Preparedness Task Force
1998 - 2002	Liaison Member on the Judicious Use of Antibiotics in Veterinary Medicine, AVMA
1997 - 1999	Minnesota State High School League-Medical Advisory Committee
1997 - 2008	Minnesota Veterinary Medical Association-Public Health Committee

XVI. GRADUATE ADVISORY EXPERIENCE:

ADVISOR - COMPLETED DEGREES (4 PhD; 3 MS; 24 MPH; 9DVM/MPH)

2016	Kristin Hardy	MPH (Epidemiology – Hepatitis A vaccination)
2016	Ong-Orn Prasarnphanich	MPH (Public Practice – preparedness)
2015	Emily Tholen	MPH (Epi)
2014	Sylvia Wanzala	MPH (Public Practice – TB in Uganda)
2014	Andrew Huff	PhD (Environmental Health – Food Protection)
2014	Elizabeth Schiffman	MPH (Epidemiology – Petting Zoo Risk Assessment)
2013	Alyssa Herreid	MPH (Epidemiology – Urban Chickens)
2012	Amanda Beaudoin	PhD (VMed – Zoonotic Influenza)
2011	Ryan Newkirk	PhD (Epidemiology – Food Defense)
2011	Karin Hamilton	MPH (Executive – Good Agriculture Practices)
2011	Shelley Mehlenbacher	MPH (Executive – Salmonella and pet food)
2011	Adam Keaster	MPH (Japanese Encephalitis risk in the US)
2011	Girum Ejigu	MPH (STEC – Dairy cattle)
2011	Melissa Holcomb	DVM/MPH (Equine Salmonella)
2010	Steve Johnson	MPH (Swine influenza)
2010	Kathy Jorgenson	MPH (Executive)
2010	Stephanie Yendell	DVM/MPH (AI and backyard flocks)
2010	Andrea Parrish	DVM/MPH (MRSA and Therapy Dogs)
2010	Jeff Stueve	DVM/MPH (Reptile-associated <i>Salmonella</i>)
2010	Barb Grieg	MPH (Epi – Lyme disease exposure risk)
2010	Brendan Lee	MPH (Executive – Import Food Vulnerability)
2009	Rebecca Fisher	MPH (Epi – Project Advisor – Lyme disease)
2009	Joshua Rounds	MPH (Foodborne Disease Cluster Investigations)
2009	Meghan Shirger (Cheyne)	DVM/MPH (Virginiamycin-resistant <i>Enterococcus faecium</i>)
2008	Colin Schwensohn	MPH (Epi - Salmonella)
2008	Stephan Singleton	DVM/MPH (Petting zoos)

2008	Kara Nelson	DVM/MPH (Rabies in Minnesota)
2008	Jeff Griggs	MS (Animal Science) – Co-advisor (Organic Poultry Production)
2007	Stacy Unser	DVM/MPH (Project Advisor - <i>Listeria monocytogenes</i> in humans and animals)
2007	Kat Coughlan	DVM/MPH (Project Advisor - MRSA in long-term facility resident animals)
2007	Katherine Waters	MPH (cMRSA in household pets)
2007	Hisako Tsutumi	MS (Food Safety risk assessment of shrimp importation)
2007	Tegwin Taylor	MPH Advisor (Worker safety of pork industry workers)
2006	Kathleen McCollough	MS (Project Advisor – <i>Anaplasma phagocytophilum</i> surveillance)
2005	Seongbeom Cho	PhD Advisor (Veterinary Medicine) (STEC)
2004	Larissa Minicucci	MPH (Project Advisor - West Nile virus infection in horses)
2002	Peter Wilker	MPH (Project Advisor - Hemolytic Uremic Syndrome)
2001	Seth Baker	MPH (Project Advisor - <i>Chlamydia psittaci</i>)
2001	Joni Scheftel	MPH (Project Advisor - <i>Yersinia enterocolitica</i>)
2000	Michelyn Jones	MPH (Project Advisor - Multi-drug resistant <i>Salmonella</i> Typhimurium)
1999	Scott A. Seys	MPH (Project Advisor - Malaria)

ADVISOR - CURRENT STUDENTS (2 PhD; 2 MPH)

2016	Jennifer Grimm	MPH (Epi)
2015	Megan Peck	PhD (Co-advisor Environmental Health)
2014	Evan Sorley	PhD (Co-advisor Environmental Health)
2012	Victor Cruz	MPH (Epi)

EXAMINING COMMITTEE - COMPLETED DEGREES (19 PhD; 42 MPH; 21 DVM/MPH; 16 MS)

2016	Geoff Lynn	PhD (Entomology)
2016	Medora Witwer	MPH (Environmental Health)
2015	Scott Seys	PhD (Environmental Health)
2015	Barsha Chitrakar	MPH (Environmental Health)
2014	Kelly LaFortune Straka	DVM/MPH
2014	Hayley Hontos	MPH (Maternal Child Health)
2014	Brittani Schmidt	MPH (Epidemiology)
2014	Samala Van Hoosimen	DVM/MPH
2014	Stacy Tinkler	DVM/MPH
2014	Tamarin Scott	DVM/MPH
2014	Shannon Engelman	MPH (Environmental Health)
2013	Ben Miller	PhD (Environmental Health)
2013	Alexander Draper	MS (Veterinary Medicine)
2013	Joao Ribeiro Lima	PhD (Veterinary Medicine)
2013	Tory Whitten	MPH (Environmental Health)
2013	Andrea Kraus	MPH
2013	Melinda Lee	MPH (Environmental Health)
2013	Karen Everstine	PhD (Environmental Health)
2012	Aubrey Tauer	DVM/MPH
2012	Mary Wood	DVM/MPH
2012	Kristin Voehl	DVM/MPH
2012	Kristin Obbink	DVM/MPH
2012	Jason Stull	PhD (Guelph University)
2012	Zhe Hou	PhD (Food Science)
2011	Kellie Littrell	MPH (Environmental Health)
2011	Tim Boyer	PhD (Environmental Health)
2011	Brett Boum	MPH
2011	Christina Foutz	DVM/MPH
2011	Amanda Guspiel	MPH (Environmental Health)
2011	Preethi Haran	MS (VMED)
2011	Anil Sukumanin Nair	MPH (Epidemiology)
2011	Rolando Gonzalez	PhD (Food Science)
2010	John Li	PhD (Environmental Health)

2010	Luis Cruz	MS (VMED)
2010	Stelios Viazis	PhD (Food Science)
2010	Garry Goemann	MPH (Executive)
2010	Stephanie Pylka	DVM/MPH
2010	Katherine Niksich	DVM/MPH (MSU)
2010	Carrie Klumb	MPH
2010	Nicole Martell	DVM/MPH (MSU)
2009	Jamie Dion	MPH (Environmental Health)
2009	Elizabeth VanDyk	DVM/MPH (MSU)
2009	Leslie Nordgren	PhD (Environmental Health)
2009	Lindsay Hornickel	MPH (Environmental Health)
2009	Jason Crawford	DVM/MPH (CSU)
2009	Wendy Whitney	DVM/MPH
2009	Matt Allerson	DVM/MPH
2009	Kim Helmbold	DVM/MPH
2009	Mary Beth Kamnetz	MS (Food Science)
2008	Sandra Lefebvre	PhD (Guelph, Canada)
2008	Megan Craft	PhD (Ecology, Evolution, and Behavior)
2008	Margaret Carl	DVM/MPH
2008	Kristin Vicar	MS (Environmental Health)
2008	Geoff Lynn	MS (Environmental Health)
2008	Mary Beth Kamnetz	MS (Food Science)
2007	Amit Pal	PhD (Food Science)
2007	Sara Williams	MPH (Environmental Health)
2007	Emily Abbot	MS (Epidemiology)
2007	Jennifer Grannick	MS (VCS)
2007	Morgan Hennessey	MPH (Public Practice)
2007	Emily Thompson	MS (Environmental Health)
2007	Elle Scherman	MPH (Environmental Health)
2007	Lauren Nils	MPH (Environmental Health)
2007	Heather Swan	DVM/MPH
2007	Mindy Rostal	DVM/MPH
2007	Margaret Venuto	MPH (Public Practice)
2007	Susan McClanahan	MPH (Public Practice)
2007	Klaudyna Borewicz	MS (Entomology)
2007	Elizabeth Scherman	MPH (Environmental Health)
2007	Margaret Venuto	MPH
2006	Vanessa Lopes	PhD (Veterinary Medicine)
2006	Elizabeth Boyle	MPH (Environmental Health)
2006	Molly Mills	MS (Food Science)
2006	Heather Case	MPH (PHP)
2006	Heather Swan	MPH (DVM/MPH)
2006	Tim Boyer	MPH (Environmental Health)
2006	Lindsey Leshner	MPH (Environmental Health)
2005	Carlota Medus	PhD (Environmental Health)
2005	Julie LeBlanc	MPH
2005	Fred Anderson	MPH (Environmental Health)
2005	Anna Firschman	PhD (Veterinary Medicine)
2004	Nicole Neeser	MPH
2004	Jeff Sholl	PhD (Food Science)
2004	Kimberly Carlton	MPH
2004	Paul Reiter	MPH
2004	Gerry Schamberger	PhD (Food Science)
2004	Agnes Szaszak	MS (Veterinary Medicine)
2004	Kim Reske	MPH
2004	Denise Feda	MPH
2004	Mindy Spiehs	PhD (Animal Science)
2004	Chuck Fossler	PhD (Veterinary Medicine)

2003	Kerrin Palazzi	MPH
2003	Rosemary Turner	MPH
2003	Katherine Grimm	MPH
2002	Mary Afton	MS (Environmental Health)
2002	Jeff Counters	MPH
2002	Pamala Gahr	MPH
2002	Laura Kiehnbaum	MS (Veterinary Medicine)
2002	Sara Stenzel	MPH
2000	Dana Soderlund	MPH
2000	Luwanna Lupole	MS (Environmental Health)
1999	Paul A Sjorberg	MPH
1999	Carlota Medus	MPH

EXAMINING COMMITTEE - CURRENT STUDENTS: (4 PhD)

2015	Kaushi Kanankekge	PhD (Veterinary Medicine)
2015	Jisun Sun	PhD (Veterinary Medicine)
2014	Vachira Hunprasit	PhD (Veterinary Medicine)
2013	Mike Maurer	PhD (Industrial Hygiene)

XVII. RESEARCH INTERESTS:

- 1) Antimicrobial Resistance
- 2) Food Safety
- 3) Zoonoses and Emerging Diseases
- 4) Infectious Disease Surveillance
- 5) Infection Prevention and Control

XVIII. RESEARCH SUPPORT:

SHEPheRD IDIQ Contract (PI - Bender) Centers for Disease Control and Prevention 200-2016-91795	09/30/2016 – 08/31/2021	2.4 calendar \$1,300,000
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Antibiotic Use and Resistance in Companion Animals

Major goals: is to develop surveillance systems to detect antibiotic resistance organisms in companion animals and develop a corresponding stewardship program.

2U54OH010170-06 (Alexander) Centers for Disease Control and Prevention – NIOSH <i>Upper Midwest Agricultural Safety and Health Center</i>	09/30/2016 – 9/29/2021	\$1,700,000
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Serve of a regional center for occupational health for agricultural workers and their families. Utilizing One Health principles to support worker health.

Centers for Disease Control (Bender) MDH/CDC	09/01/2016 – 08/31/2016	2.4 calendar \$256,400
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Enhancement and Publicity of the AMRLS for Veterinary Students and the Veterinary Antibiotic Resistance and Stewardship Need Assessment

Major goals: Updating educational program for veterinary students and veterinarians. This includes the development of new case study modules and an assessment of core veterinary training on antibiotic resistance.

AKC Animal Health Foundation (PI-Whitten) <i>Prevalence of B. canis in Shelter Dogs</i>	07/1/2016 – 06/30/2017	0.0 calendar \$14,985
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Major goal: Measure how common exposure to this disease is in dogs entering Minnesota canine rescues or shelters. A screening test will be used to determine the presence of *B. canis* antibodies in the blood of sampled dogs. Samples that are positive by the screening test will be confirmed by additional testing.

14-289 (PI - Alexander) National Pork Board	12/15/2014 – 9/30/2016	0.12 calendar \$139,615
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Assessment of Injuries in Pork Production Facilities

The goal of this of this project is to evaluate existing data systems to improve the comprehensive and routine assessment of the frequency, causes burden and cost of work related injury and illness in swine production facilities. This project will build a partnership between the University of Minnesota, the National Pork Board, and key US pork industry leaders

Univ of Minnesota/Chiang Mai Univ (Bender) 03/01/2015 - 02/28/2016 1.2 calendar
Antibiotic Stewardship in Companion Animal Practice \$30,000
Major goals: 1) To evaluate practitioner approaches and practices in regard to Urinary Tract Disease (UTD) in dogs and Superficial Bacterial Folliculitis (SBF) in dogs; 2) Collect skin and urinary cultures to validate the type of organisms and antibiotic susceptibility observed in the clinical setting at each institution; and 3) Develop an institution specific antibiogram and guidelines for veterinary practitioners and students.

Jenny-O Turkey Store Contract (Wells and Bender) 06/01/2015 – 5/31/2016
Investigation of the Highly Pathogenic H5N2 in Minnesota \$130,000
Conduct a case-control study to determine risk factors for H5N2 avian influenza virus infection in poultry in Minnesota.

Minnesota State Fair Contract (Goldsmith/Bender) 8/1/2014 – 7/31/2015
Environmental Salmonella Contamination and Risk to the Public \$13,000
Goal was to identify risk areas in animal holding facilities and review disinfection protocols during exhibition events.

University of Minnesota (Alvarez) 7/01/2014 – 6/30/2015
Monitoring the Host-Pathogen Complex for Salmonella in livestock and Companion Animals. \$43,000
Determine common features of human and animal salmonella isolates from Minnesota Department of Health and Minnesota Veterinary Diagnostic Laboratory surveillance samples.

University of Minnesota (Hedberg)
MN Drive Proposal \$95,000
Developing a Risk Management Framework to Improve Public Health Outcomes by Enumerating Salmonella in Ground Meat and Poultry Products

University of Minnesota (Sorge)
CVM Population Systems \$50,000
Stockmanship Training as Tool to Improve Cattle Flow and Productivity and Reduce the Injury Risk of Workers on Dairy Farms

University of Minnesota (Johnson) 5/1/2011 – 4/30/2013
Healthy Foods Healthy Lives \$100,000
Prevalence and Molecular Epidemiology of Clostridium difficile in Food and Companion Animals, Retail Meats, and Humans in Minnesota 2011-2013, (Co-investigator)
Characterize *C. difficile* isolates collected regionally from food, animals and humans in Minnesota.

University of Minnesota (Valberg) 6/1/2011 – 5/31/2012
Agriculture Experiment Station, Rapid Agricultural Response Funds. \$150,000
Atypical Pasture Myopathy in Horses
Determine factors for seasonal sudden death in horses in Minnesota.

5U54OH010170-02 (Alexander) 09/30/2011 – 9/29/2016
Centers for Disease Control and Prevention – NIOSH \$8,500,000
Upper Midwest Agricultural Safety and Health Center
Serve of a regional center for occupational health for agricultural workers and their families. Utilizing One Health principles to support worker health.

U19 CI000407 CDC (Bender) 09/30/2006 – 12/31/2010 2.4 calendar
Centers for Disease Control \$2,700,000
Avian Influenza Cooperative Research Centers

This center is studying influenza transmission at the Human-Animal interface. This includes the ability of low-pathogenic avian and swine influenza viruses to be transmitted from animal hosts to humans. A key part of this effort is to measure the effect that hygiene and personal protection interventions have on the rates of virus transmission.

HHSN266200700007C (Osterholm)	09/30/2008 – 03/29/2011	0.6 calendar months
NIH		
<i>Minnesota Center of Excellence for Influenza Research and Surveillance (MCEIRS)</i>		\$300,000
MCEIRS focuses on the detection, epidemiology, ecology, and transmission of avian influenza (AI) viruses with pandemic potential. Current efforts include a survey of the practices and personal protection used by those who work with wild birds.		
Univ of Minnesota (Diaz)	01/01/2008 – 12/31/2010	0.12 calendar months
Univ of MN—Healthy Foods Healthy Lives Initiative		\$578,005
<i>Microbial Ecology, Control and Consumer Perception of Foodborne Pathogens Associated with Fresh Vegetables</i>		
Goal was to understand the microbial ecology of <i>Escherichia coli</i> O157:H7 and <i>Salmonella</i> in small local produce vegetables in Minnesota.		
09-9028-0243-CA (Bender)	10/01/2009 – 09/30/2010	0.36 calendar months
USDA CEAH-UMN		\$204,536
<i>Systematic Literature Review and Disease Spread Modeling</i>		
Conduct and document a systematic literature review and meta-analysis of Rift Valley Fever, vector-borne disease modeling, and modeling of disease dynamics from wildlife/livestock interactions.		
U50-C1000483-01(Bender)	07/01/2010 – 07/31/2010	0.36 calendar months
Contract MN Dept of Health/CDC		\$26,000
<i>Educational Efforts to Prevent Antimicrobial Resistance and Promote Appropriate Antibiotic Use</i>		
Produce and disseminate teaching materials for veterinarians, veterinary students, and Minnesota livestock/poultry aimed at promoting appropriate antimicrobial use.		
Role: Principal Investigator		
University of Minnesota (Gooden/Bender)	6/1/2008 – 5/31/2010	
Ag Experimental Station		\$278,000
<i>Development and application of a Minnesota Dairy Health Surveillance Network</i>		
To monitor strains of shiga-toxin producing <i>E. coli</i> and methicillin-resistant <i>Staphylococcus aureus</i> from Minnesota Dairy operations.		
2005-51110-02332 (Hedberg/Shutske)	09/01/2005 - 08/31/2009	1.20 calendar months
USDA-CSREES		\$600,000
<i>NCFPD-AFDO Project to Support and Promote Intergovernmental Collaboration on Food Protection and Defense</i>		
Develop an integrated program to understand the relationship between federal, state and local authorities on issues of food biosecurity		
Role: Co-Investigator		
National Pork Board (Davies)	09/01/07 – 08/31/08	
<i>MRSA in swine, pork products, and swine veterinarians</i>		\$60,000
Determine prevalence and characteristics of MRSA in pigs, pork products, and swine veterinarians		
Minnesota Department of Health	3/01/08 – 2/28/09	
Minnesota Department of Health/CDC (ELC)		\$10,000
<i>Educational efforts to prevent antimicrobial resistance and promote appropriate antibiotic use.</i>		
Major goal: Develop educational training modules regarding appropriate antibiotic use for veterinary students and producers		

Prior to 2006

USDA, Foreign Agricultural Service Scientific Cooperation Research Program, Evaluation of Regional Variation in the Epidemiology of Johne's Disease in Cattle Dense Regions in the Americas (US, Uruguay, Bolivia) Co-investigator, 2005, \$15,000.

National Integrated Food Safety Initiative. USDA, National Integrated Food Safety Initiative, co-principle investigator, 2005 – 2008, \$2,000,000.

Minnesota Department of Health. Antibiotic resistance education for veterinarians, co-investigator, 2004-2007, \$35,000.

Canine Health Foundation. Management practices and descriptive epidemiology of morbidity and mortality of police work dogs, co-principle investigator, 2004, \$12,960.

Minnesota Department of Health. West Nile Surveillance of Minnesota horses and characterization of mosquito fauna, co-principle investigator, 2003-2005, \$312,000.

CVM Merck –Merial Summer Scholars Program. Antibiotic susceptibility of *Escherichia coli* isolates from community and hospital patients at the Veterinary Medical Center, principle investigator, 2005, \$4,000.

US Department of Education. Health, Environment, Livestock and People: An International Learning Community, collaborator, 2003-2006, \$200,000.

Agriculture Experiment Station, Rapid Agricultural Response Funds. Microbial safety of chicken grown without antibiotics, co-investigator, 2003, \$82,000.

National Association of City and County Health Officials. An assessment of the Minneapolis announced inspection program, co-investigator, 2003, \$50,000.

CVM Merck –Merial Summer Scholars Program. West Nile Surveillance: Improved protocol for testing, principle investigator, 2003, \$4,000.

Agriculture Experiment Station, Rapid Agricultural Response Funds. Characterizing anthrax patterns in Minnesota to predict future outbreaks and ensure preparedness, principle investigator, 2002, \$45,000.

Centers for Disease Control and Prevention. Resistant *Enterococcus faecium* in humans and poultry, co-investigator, 2001-2004, \$1,396,456.

Purina Student Projects. Impact on Feline Health of raw food versus commercial diet, principle investigator, 2001, \$6,975.

University of Minnesota, Academic Health Center. Shiga-toxin producing *Escherichia coli* (STEC), occurrence in dairy cattle and risk factors for human infections in agriculture and urban settings, co-principle investigator, 2000, \$168,922.

University of Minnesota, Animal Health and Food Safety Center Grant. Molecular characterization of on-farm *Salmonella* isolates from Dairy Cattle in Minnesota, co-investigator, 2000, \$33,203.

Minnesota Agriculture Experiment Station. Use of molecular epidemiology to describe the clonal diversity of *Mycobacterium avium* subsp. *paratuberculosis*: A first step to more effective control methods, co-investigator, 2000, \$36,405.

University of Minnesota, Small Companion Animal Grants. Multidrug resistant *Salmonella typhimurium* in cats and the public health implications, principle investigator, 2000, \$5,000.

Minnesota Department of Health – Federal Cooperative Agreement Grants

Emerging Infection Program U50/CCU5511190

Bioterrorism Preparedness U09/CCU516981-01

Shiga-toxin Producing *Escherichia coli* (Centers for Disease Control and Prevention)

XIX. PUBLICATIONS: (Chronological Order)

a) Refereed Papers in Scientific Journals

1. Buswell M, Hourigan M, Nault A, **Bender JB**. Needlestick Injuries in Agriculture Workers and Prevention Programs J Agromedicine 2016;21:82-90. [DOI:10.1080/1059924X.2015.1106996](https://doi.org/10.1080/1059924X.2015.1106996)

2. Choi MJ, Torremorell M, **Bender JB**, Danila R, Smith KE, Boxrud D, Ertl JR, Yang M, Suwannakarn K, Her D, Nguyen J, Uyeki TM, Levine M, Nhung M, Vetter S, Wong K, Sreevatsan S, Lynfield R. Live animal markets in Minnesota, a potential source for emergence of novel influenza A viruses and interspecies transmission. *Clin Infect Dis* 2015;61:1355-1362.
3. Odo NU, Raynor PC, Beaudoin A, Somrongsong R, Scheftel JM, Donahue JG, **Bender JB**. Personal Protective Equipment Use and Hand Washing among Animal Farmers: A Multi-Site Assessment." *Journal of Occupational & Environmental Hygiene*. 2015;12:363-368.
4. Hamilton KE, Umber J, Hultberg A, Tong C, Schermann, Diaz-Gonzalez F, **Bender JB**. Validation of Good Agricultural Practices (GAP) on Minnesota Vegetable Farms. *Food borne Pathogens and Diseases* 2015;12:145-150.
5. Wünschmann A, Armien AG, Butler E, Schrage M, Stromberg B, **Bender JB**, Firshman AM, Carstensen M. Necropsy findings in 62 opportunistically collected free-ranging moose (*Alces Alces*) from Minnesota (2003-2013). *J Wildlife Diseases* 2015;51:157-165. doi: <http://dx.doi.org/10.7589/2014-02-037>
6. Sorge US, Cherry C, **Bender JB**. Perception of the importance of Human-Animal interactions on cattle flow and worker safety in Minnesota Dairy Farms. *J Dairy Sci* Jan 2014 doi.org/10.3168/jds.2014-7971
7. Whitten T. **Bender JB**, Smith KE, Leano F, Scheftel J. Reptile-Associated Salmonellosis in Minnesota, 1996-2011. *Zoonoses Public Health*. 2014 Jun 9. doi: 10.1111/zph.12140. [Epub ahead of print]
8. Draper A, **Bender JB**, Firshman AM, Baird JD, Reed S, Mayhew IG, Valberg SJ. Epidemiology of Shivers. *Equine Vet J*. 2014 May 6. doi: 10.1111/evj.12296. [Epub ahead of print]
9. Nordgren L, Gerberich S, Alexander B, Church T, **Bender J**, Ryan A. An epidemiological study of the magnitude and consequences of and risk factors for work-related injuries to veterinary technicians. *J Am Vet Med Assoc*. 2014 Aug 15;245(4):425-33. doi: 10.2460/javma.245.4.425
10. Nordgren L, Gerberich S, Alexander B, Church T, **Bender J**, Ryan A. Risk factors for work-related bite injuries to Minnesota Certified Veterinary Technicians. *J Am Vet Med Assoc*. 2014 Aug 15;245(4):434-40. doi: 10.2460/javma.245.4.434.
11. Ruple-Czerniak AA, Aceto HW, **Bender JB**, Paradis MR, Shaw SP, Van Metre DC, Weese JS, Wilson DA, Wilson J, Morley PS. Syndromic surveillance for evaluating the occurrence of healthcare-associated infections in equine hospitals. *Equine Vet J*. 2013 Sep 12. doi: 10.1111/evj.12190. [Epub ahead of print] Available <http://onlinelibrary.wiley.com/doi/10.1111/evj.12190/pdf>.
12. Ruple AA, Aceto H, **Bender JB**, Paradis MR, Shaw SP, Van Metre DC, Weese JS, Wilson DA, Wilson J, Morley PS. Syndromic surveillance to estimate baseline rates for healthcare-associated infections in critical care units of small animal referral hospitals. *J Vet Intern Med* 2013;27:1392–1399.
13. Cho S, Diez-Gonzalez F, Fossler C, Wells SJ, Hedberg CW, Kaneene JB, Ruegg P, Warnick L, **Bender JB**. Herd-level risk factors associated with fecal shedding of Shiga toxin-encoding bacteria on dairy farms in Minnesota, USA. *Can Vet J* 2013;54:693–697.
14. Anderson ME, Burgess BA, Aceto HW, **Bender JB**, Clark C, Daniels JB, Davis MA, Hinchcliff KW, Johnson JR, McClure JT, Perkins GA, Pusterla N, Traub-Dargatz JL, Weese JS, Whittam TL, Morley PS. Report of the third Havemeyer workshop on infection control in equine populations: Monterey, California, USA, September 2010. *Equine Vet J*. 2013 Mar;45(2):131-6. doi: 10.1111/evj.12000.
15. Valberg S, Sponseller BT, Hegeman AD, Earing J, **Bender JB**, Martinson KL, Patterson SE, Sweetman L. Seasonal pasture myopathy in North America associated with ingestion of hypoglycin A within seeds of the box elder tree. *Equine Vet J*. 2013 Jul;45(4):419-26. doi: 10.1111/j.2042-3306.2012.00684.x. Epub 2012 Nov 20.
16. Harris L, **Bender J**, Bihn E, Blessington T, Danyluk M, Delaquis P, Goodridge L, Ibekwe A, Ilic A, Kniel K, LeJeune J, Schaffner D, Stoeckel D, and Suslow T. A Framework for Developing Research Protocols for

- Evaluation of Microbial Hazards and Controls During Production That Pertain to the Quality of Agricultural Water Contacting Fresh Produce That May Be Consumed Raw. *J Food Prot* 2012;75:2251-2273.
17. Gray GC, **Bender JB**, Bridges CB, Daly RF, Krueger WS, Male MJ, Heil GL, Friary JA, Derby RB, and Cox NJ. Pandemic Influenza Virus among Healthy US Swine Show Pigs. *Emerg Infect Dis*, 2012;18:1519.
 18. Goupil B, Trent A, **Bender J**, Olsen K, Morningstar B, Wunschmann A. A Longitudinal Study of Salmonella from snakes used in a Public Outreach Program. *Zoo and Wildlife Medicine*, 2012;43:836-841.
 19. Beaudoin AL, Kitikoon P, Schreiner PJ, Singer RS, Sasipreeyajan J, Amonsin A, Gramer MR, Pakinsee S, **Bender JB**. Risk Factors for Exposure to Influenza A Viruses, Including Subtype H5 Viruses, in Thai Free-Grazing Ducks. *Transbound Emerg Dis*. 2012 Dec 24. doi: 10.1111/tbed.12043. [Epub ahead of print] PMID:23279757
 20. Mehlenbacher S, Churchill J, Olsen KE, **Bender JB**. Availability, Brands, Labeling and Salmonella Contamination of Raw Pet Food in the Minneapolis/St. Paul Area *Zoonosis and Public Health*, 2012;59:513-520 (epub 5/2012).
 21. **Bender JB**, Schiffman E, Hiber L, Gerads L, Olsen K. Recovery of staphylococci from computer keyboards in a veterinary medical centre and the effect of routine cleaning. *Veterinary Record* 2012;170:414.
 22. Somrongthong R, Beaudoin AL, **Bender J**, Laosee O, Pakinsee S, Sitthi-amorn C. Use of personal protective measures by Thai Households in areas with avian influenza outbreaks. *Zoonosis and Public Health* 2012;59:339-46.
 23. Haran KP, Godden S, Boxrud D, Jawahir S, **Bender J**, Sreevatsan S. Prevalence and Characterization of *Staphylococcus aureus*, including Methicillin Resistant *Staphylococcus aureus*, Isolated from Bulk Tank Milk from Minnesota Dairy Farms. *J Clin Micro*, 2012; 50:688-95.
 24. Dressler AE, Scheibel RP, Wardyn S, Harper AL, Hanson BL, Kroefer JS, Diekema DJ, **Bender JB**, Gray GC, Smith TC. Prevalence, antibiotic resistance, and molecular characterization of *Staphylococcus aureus* in state fair swine. *Veterinary Record*, 2012;170:495.
 25. Newkirk R, Hedberg C, **Bender J**. The Potential Capability of Social Media as a Component of Food Safety and Food Terrorism Surveillance Systems. *Foodborne Disease and Pathogens* 2012;9:120-4.
 26. Beaudoin A, Johnson S, Davies P, **Bender J**, Gramer M. Characterization of influenza A outbreaks in Minnesota swine herds and measures taken to reduce risk of zoonotic transmission. *Zoonosis Pub Health* 2012;59:96-106.
 27. Yendell SJ, Rubinoff I, Lauer D, **Bender JB**, Scheftel J. Prevalence of low-pathogenic avian influenza and evaluation of management practices in Minnesota backyard poultry flocks. *Zoonosis Pub Health* 2012;59:139-143.
 28. Smith KE, Wilker PR, Reiter P, Hedican EB, **Bender JB**, Hedberg CW. Antibiotic treatment of *Escherichia coli* O157 infection and the risk of the Hemolytic Uremic Syndrome, *Minnesota Ped Inf Dis J* 2012;31:37-41.
 29. Gordoncillo MJ, **Bender J**, Noffsinger J, Bartlett P. Open-access Antimicrobial Resistance Learning Site for Veterinary Students. *J Vet Med Educ*, 2011;38:404-407.
 30. Donahue JG, Coleman LA, McGraw PJ, Irving SA, **Bender JB**, Lauer DC, Belongia EA. Prevalence of avian influenza and biosecurity practices in backyard poultry flocks *Zoonosis Pub Health* 2011;11:1293-7, epub 5/25/2011.
 31. Newkirk R, Hedberg C, **Bender JB**. Establishing a Milkborne Disease Outbreak Profile: Potential Food Defense Implications. *Foodborne Pathogens and Disease* 2011;8:433-437.
 32. Medus C, Smith KE, **Bender JB**, Leano F, Hedberg CW. Salmonella infections in foodworkers identified through routine surveillance in Minnesota: impact on outbreak recognition. *J of Food Protection* 2010;73:2053-2058.

33. Beaudoin A, Gramer M, Gray G, Capuano A, Setterquist S, **Bender J**. Serologic survey for swine workers for exposure to H2N3 swine influenza A. *J of Influenza and other Respiratory Viruses* 2010;4:163-170.
34. Coughlan K, Olsen KE, Boxrud D, **Bender JB**. Methicillin-resistant *Staphylococcus aureus* in resident animals of a long-term care facility. *Zoonoses and Public Health* 2010;57:220-226.
35. Grannick J, Armstrong J, **Bender J**. *Anaplasma phagocytophilum* infection in dogs: A retrospective study of 34 dogs (2000-2007). *Journal of the American Veterinary Medical Association* 2009;234:1559-1565.
36. Umber J, **Bender J**. Pets and antimicrobial resistance. *Veterinary Clinics of North America, Small Animal* March 2009;39:279-292.
37. Cho S, Diez-Gonzalez F, Fossler C, Wells SJ, Hedberg CW, Kaneene JB, Ruegg P, Warnick L, **Bender JB**. Animal-level risk factors associated with fecal shedding of Shiga-toxin producing bacteria on dairy farms in Minnesota, USA *Can J Vet Res.* 2009 April; 73(2): **151–156**.
38. Smith K, Medus C, Meyer S, Boxrud D, Leano F, Hedberg C, Elfering K, Braymen C, **Bender J**, Danila R. Outbreaks of Salmonellosis in Minnesota (1998-2006) associated with frozen, microwaveable, breaded, stuffed chicken products. *J Food Protection*, 2008;71:2153-5160.
39. Jacobs JP, Griggs JP, **Bender JB**. Characterization of small-scale antibiotic-free broiler production in Minnesota. *J Applied Poultry Research* 2008;17:412-20.
40. Sannes MR, Belongia EA, Kieke B, Smith KE, Vandermause M, **Bender J**, Clabots C, Winokur P, Johnson JR. Predictors of antimicrobial-resistant *Escherichia coli* in the feces of vegetarians and newly hospitalized adults in Minnesota and Wisconsin. *J Infect Dis*, 2008;197:430-434.
41. **Bender JB**, Minicucci L. Diseases Pets and People Share. *Minnesota Medicine*, 2007;90:43-47.
42. Cho S, Diez-Gonzalez F, Fossler C, Wells SJ, Hedberg CW, Kaneene JB, Ruegg P, Warnick L, **Bender JB**. Antimicrobial susceptibility of Shiga toxin producing *Escherichia coli* isolated from organic dairy farms, conventional dairy farms, and county fairs in Minnesota. *Foodborne Pathogens & Disease*, 2007;178-186.
43. Johnson JR, Sannes MR, Croy C, Johnston B, Clabots C, Kuskowski MA, **Bender J**, Smith KE, Winokur PL, Belongia EA. Molecular comparison of antimicrobial and susceptible *Escherichia coli* isolates from humans and poultry products in Minnesota and Wisconsin, 2002-2004. *Emerg Infect Disease* 2007;13:838-845.
44. Steinmuller N, Demma L, **Bender JB**, Eidson M, Angulo FJ. Outbreaks of enteric disease associated with animal contact: Not just a foodborne problem anymore. *Clin Infect Dis*, 2006;43:1596-1602.
45. Cho S, Diez-Gonzalez F, Fossler C, Wells SJ, Hedberg CW, Kaneene JB, Ruegg P, Warnick L, **Bender JB**. Prevalence of shiga toxin-encoding bacteria and shiga toxin-producing *Escherichia coli* isolates from dairy farms and county fairs. *Veterinary Microbiology*, 2006;118:289-298.
46. Medus C, Smith K, **Bender J**, Besser J, Hedberg C. Salmonella outbreaks in restaurants in Minnesota, 1995-2003: Evaluation of the role of infected foodworkers. *J Food Protection*, 2006;69:1870-1878.
47. Griggs JP, **Bender JB**, Jacob JP. Microbial safety of chickens raised without antibiotics. *J Appl Poult Res*, 2006;15:475-482.
48. **Bender JB**, Hueston W, Osterholm MT. Recent animal disease outbreaks and their impact on human populations. *J of Agromedicine*, 2006;11:5-15.
49. Firshman AM, Valberg SJ, **Bender JB**, Annandale EJ, Hayden DW. Comparison of histopathologic criteria and skeletal muscle fixation techniques for the diagnosis of polysaccharide storage myopathy in horses. *Vet Pathol* 2006;43:257-269.
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54. Fossler CP, Wells SJ, Kaneene JB, Ruegg PL, Warnick LD, **Bender JB**, Eberly LE, Godden SM, Halbert LW. Herd-level factors associated with isolation of *Salmonella* in a multi-state study of conventional and organic dairy farms II. *Salmonella* shedding in calves. *Preventive Veterinary Medicine*, 2005;70:279-291.
55. Wünschmann A, Shivers J, **Bender J**, Carroll L, Fuller S, Saggese M, van Wettene A, Redig P. Pathological and immunohistochemical findings in goshawks (*Accipiter gentilis*) and great horned owls (*Bubo virginianus*) naturally infected with West Nile virus. *Avian Diseases* 2005;49:252-259.
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74. Seys S, **Bender J**. The Changing Epidemiology of Malaria in Minnesota. *Emerging Infectious Diseases* 2001;7:993-5.
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76. Fitzpatrick AM, **Bender JB**. A survey of chief livestock officials in each state regarding bioterrorism preparedness. *JAVMA* 2000;217; 1315-1317.
77. **Bender JB**, Smith KE, Hedberg CW, Osterholm MT. Foodborne disease into the 21st century: What challenges await us? *Postgrad Medicine* 1999; 106:109-12, 115-16, 119.
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80. **Bender JB**, Sreevatsan S, Robinson AR, Otterby D. Feeding animal by-products contaminated with *Salmonella* in the diets of lactating dairy cattle. *J Dairy Science* 1997; 80:3064-67.

b) Published Commentaries/Letters

1. Alexander BH, **Bender JB***, Kampa D, Keifer MC, Liebman AK, Peterson C, Rasmussen R, Schiller L, Schloesser B, Sheridan C. Growing Agriculture Education: Embracing Health and Safety. (in press *J Agro Medicine* 2015) <http://dx.doi.org/10.1080/1059924X.2016.1179240>
2. Grayzel SE, **Bender JB**, Glore RP, Gumley N, Sykes JE, Whichard, Papich MG, Watts JL, JM Barlam TF, , Murphy MJ, Hoang C. Commentary - Understanding Companion Animal Practitioners' Attitudes toward Issues of Antimicrobial Stewardship. *J Am Vet Med Assoc* 2015;247:883-884.
3. **Bender JB**, Barlam TF, Glore RP, Gumley N, Grayzel SE, Hoang C, Murphy MJ, Papich MG, Sykes JE, Watts JL, Whichard JM. Commentary - Antimicrobial Stewardship in Companion Animal Practice. *JAVMA* 2015;246:287-288.
4. Davies PR, Alexander BH, **Bender JB**, Deen J, Dewey CE, Funk JA, et al. Livestock density as risk factor for livestock-associated methicillin-resistant *Staphylococcus aureus*, the Netherlands [letter]. *Emerg Infect Dis*. 2013 Sep. <http://dx.doi.org/10.3201/eid1909.121577>
5. **Bender JB**, Waters KM, Nerby J, Olsen K, Jawahir S. MRSA isolated from pets living in households with MRSA-infected children *Clin Inf Dis*, 2012;54:449-450.
6. Davies P, Wagstrom L, **Bender JB**. Lethal necrotizing pneumonia caused by an ST398 *Staphylococcus aureus* strain *Emerging Infect Disease* 2011;17:1152
7. Hedberg CW, Smith KE, Besser J, Boxrud D, Hennessy TW, **Bender JB**, Anderson FA, Osterholm MT. Limitations of Pulsed-field gel electrophoresis for the Routine Surveillance of *Campylobacter* infections.

Journal of Infectious Diseases 2001; 183 (1): 164-7.

8. **Bender JB**, Hedberg CW, Hennessy T. Request for additional information on *Salmonella enteritidis* isolates. JAVMA 1995; 207: 294.

c) Papers in Other Professional Journals/Organizations

1. National Assembly of State Animal Health Officials (NASAHO) and National Association of State Public Health Veterinarians (NASPHV) 2013, 2014, 2015. Measures to minimize influenza transmission at swine exhibitions.
2. Hennessy, M., Scheftel, J., **Bender, J.** 2009. Zoonotic Disease Risks for Wildlife Rehabilitation Workers. Topics in Wildlife Medicine: Infectious Diseases. National Wildlife Rehabilitators Association. 3:41-47.
3. Compendium of Measures to Prevent Disease Associated with Animals in Public Settings, 2007. Morb Mort Week Rep. 2007;56: No. RR-5.
4. Compendium of measures to prevent disease and injury associated with animals in public settings, National Association of State Public Health Veterinarians (NASPHV) 2003, 2004, 2006.
5. Compendium of Measures to Prevent Disease Associated with Animals in Public Settings, 2005. Morb Mort Week Rep. 2005; 54: No. RR-4.
6. Robinson AR, Mainzer H, Chomel B, **Bender J.** Surveillance methodologies for zoonotic disease at community levels, FAO Animal Production and Health, Expert Consultation on Community –based Veterinary Public Health Systems, Rome, Italy 2004.
7. Outbreaks of multidrug resistant *Salmonella Typhimurium* associated with veterinary facilities -- Idaho, Minnesota, Washington, 1999; Morb Mort Week Rep. 2001 50:30; 701-704.
8. Outbreak of *Salmonella* Serotype Muenchen Infections Associated with Unpasteurized Orange Juice – United States and Canada, June 1999; Morb Mort Week Rep. 2000 48: 582-585.
9. Outbreak of cryptosporidiosis associated with a water sprinkler fountain - Minnesota, 1997. Morb Mort Week Rep 1998; 47: 856-60.
10. **Bender JB.** Reducing the Risk of *Salmonella* spread and practical control measures in dairy herds. Bovine Practitioner 1994; 20: 62-5.
11. Robinson AR, **Bender JB.** Descriptive epidemiology of *Salmonella* infection in Minnesota herds. Bovine Practitioner 1994; 28: 83-6.

d) Book Chapters

1. National Research Council of the National Academies. A risk-characterization framework for decision-making at the Food and Drug Administration. The National Academies Press, 2011
2. Hedberg, C, **Bender J**, Vesley D. Protecting Food, Water, and Ambient Air, In Terrorism and Public Health. Levy and Sidel, Oxford University Press, 2003.
3. Smith, K, **Bender JB**, Osterholm MT. Antimicrobial resistance in animals and relevance of human infections. In Campylobacter. 2nd Edition. Blaser and Nachamkin, ASM Press, 2000.

e) Papers Published in Proceedings of National Meetings

1. Successes and Future Challenges in Food Safety. Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016.

2. Why hasn't our efforts affected human salmonella infections? Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016.
3. Emerging diseases in animals and their impact on human health. Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016.
4. Antibiotic stewardship in companion animal practice. Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016.
5. Bender JB. Our patients lick the floor...and their butt – role of the environment and challenges in infection control. North American Veterinary Dermatology Forum. Phoenix, AZ. April 2014.
6. Bender JB. Salmonella from snakes used in a public outreach program. AVMA Annual Meeting Proceedings Chicago, IL 2013
7. Bender JB. Antibiotic use in livestock production. AVMA Annual meeting proceedings 2012
8. Bender JB. Update on MRSA and Pets. American Veterinary Medical Association, St. Louis, MO. July 2011.
9. Bender JB, Mehlenbacher S. *Salmonella* in pet food and pet treats. American Veterinary Medical Association, St. Louis, MO. July 2011.
10. Bender JB. MRSA – The emergence of a bad bug, infection control and public health challenges. North American Veterinary Dermatology Forum. Portland, OR. April 2010.
11. Bender JB. Organic Foods, Are they safer? Western Veterinary Conference, Las Vegas. Feb 2009
12. Bender JB, Coughlan K, Waters K, Boxrud D, Peterson K, Jessica Buck. MRSA infections in pets. American Veterinary Medical Association Annual Meeting, New Orleans, LA 2008
13. Bender JB, Peterson K. Infection Control and MRSA. American Veterinary Medical Association Annual Meeting, New Orleans, LA 2008
14. Bender JB, Peterson K. Emergence of methicillin-resistant *Staphylococcus aureus* (MRSA) infections in pets: public health and nosocomial implications. American Veterinary Medical Association Annual Meeting. 2007 Washington DC.
15. Bender J, Smith K. Characterization of multidrug-resistant *Salmonella* Typhimurium isolated from ill food animals and humans in Minnesota, 1996-1998. Food Safety Symposium on Antimicrobial Resistance, Sept. 1999, Atlanta, GA.
16. Bender J. Outbreak of multidrug resistant *Salmonella* Type DT104 in a home daycare setting. Food Safety Symposium on Antimicrobial Resistance, Sept. 1999, Atlanta, GA.
17. Bender JB. *Salmonella* Infections Among Minnesota Residents. Al Leman Conference, October 1998, Brooklyn Park, Minnesota.
18. Bender JB. Pathogens Found in Water Contaminated by Manure. Allen D. Leman Swine Conference, September 1997. Brooklyn Park, Minnesota.
19. Bender JB, Sreevatsan S, Robinson AR. Feeding Naturally Contaminated *Salmonella* Animal Products to Lactating Dairy Cattle - a Pilot Study. Proceedings Minnesota Nutrition Conference and National Renders Technical Symposium, September 20-22, 1993, St. Paul, Minnesota.

f) Papers Published in Proceedings of International Meetings

1. Bender JB. Recent Concerns about Reptile-Associated Salmonellosis. Ontario Veterinary Medical Association. Montreal, Jan 2010
2. Bender JB. Organic Foods, Are they safer? Ontario Veterinary Medical Association. Montreal, Jan 2010

3. Bender J. The emergence of a bad bug: treatment, infection control and public health challenges for methicillin-resistant *Staphylococcus aureus* (MRSA). American College of Veterinary Internal Medicine Annual Meeting. Montreal, Canada. June 2009.
4. Blaha T, Boxrud DJ, Bender JB. Investigations into the Infection-Contamination Cycle of Zoonotic *Salmonella* on Swine Farms: PFGE-Subtyping of *S. typhimurium* Strains from Selected Minnesota Swine Farms. Third International Symposium on the Epidemiology and Control of *Salmonella* in Pork, August 1999, Washington, D.C.
5. Food Safety Concerns Associated with Pork Consumption. IAMFES, August 1998, Nashville, Tennessee.
6. Bender JB, Robinson AR, Marsh WE, Collins JE. How Representative are Routine Diagnostic Laboratory Submissions of All Livestock Producers? International Society of Veterinary Epidemiology and Economics, Kenya, 1994.

g) Publications in Lay Journals, Extension Bulletins and Continuing Education Publications

1. Davis A, Wilson, J, Bender J, Minicucci L. Recovery from west nile virus infection in horses, Horsin' Around. June 2003
2. Minicucci L and Bender JB. West Nile Virus – Is your horse at risk? Horsin' Around, March 2003.
3. **EXTENSION WEBSITE INFORMATION:**
 - Handwashing and agrotourism video (www.umash.umn.edu)
 - Needlestick prevention for swine and dairy workers, English and Spanish (www.umash.umn.edu)
 - Stockmanship for dairy workers, English and Spanish (www.umash.umn.edu)
 - Raw food diets and pets <http://www.cvm.umn.edu/>
 - Tularemia and pets <http://www.cvm.umn.edu/>
 - Influenza in pigs (updated August 2012 - H3N2v) <http://www.cvm.umn.edu/>
 - Influenza in pets <http://www.cvm.umn.edu/>
 - Methicillin-resistant *Staphylococcus aureus* (MRSA) in pets <http://www.cvm.umn.edu/>
 - Methicillin-resistant *Staphylococcus* <http://www.cvm.umn.edu/>
 - Risks of raw milk
 - Bovine Spongiform Encephalopathy (2001), The Canadian Experience, 2003.
 - West Nile Virus, 2002, 2003, 2004, 2005 - (Fact sheet, Information for Veterinary Practitioners, West Nile Virus and Dogs and Cats).
 - Eastern Equine Encephalitis, 2002.
 - Western Equine Encephalitis, 2002.
 - Foot and Mouth Disease, 2001.
 - Bovine Spongiform Encephalopathy, 2002.
 - Anthrax in Minnesota, 2002.
 - Dog Bite Prevention, 2002.
4. Editor, "Diagnosis of Rabies, A Guide for Health Professionals," 1999.
5. Bender JB, Neitzel D. Hantavirus Pulmonary Syndrome, An update for Minnesota clinicians. Minnesota Physician, Vol 13:9, December 1999.
6. Infectious Diseases in Child Care Settings, information for directors, caregivers, and parents or guardians. Hennepin County Community Health Department, 4th Edition, 1998, 5th edition 2003, 6th Edition 2008.
7. Robinson AR, Bender JB. Emerging Infections and Veterinary Medicine. The College of Veterinary Medicine Reporter, 1995:1; 6-7.

8. Bender JB, Robinson AR. Health Concerns Relating to the Feeding of Raw Meat to Companion and Performance Animals. *The College of Veterinary Medicine Reporter*, 1994;1; 16-17.

h) Abstracts

1. Evanson J, **Bender J**, Alexander BH, Green Deirdre. A summary of injuries reported at swine production companies. Midwest Rural Agricultural Safety and Health Conference. November 15-16, 2016 Sioux Center, Iowa.
2. Raynor PC, Engelman S, Murphy D, Ramachandran G, **Bender JB**, Alexander B. Factors affecting particle and gas concentration in swine production facilities. American Association for Aerosol Research Annual conference. October, Minneapolis, MN 2016
3. Alexander BH, **Bender JB**, Murphy D. Adapting the Haddon Matrix to Incorporate One Health Approaches in Occupational Health and Animal Agriculture. EPICOH, Barcelona, Spain September 2016
4. **Bender JB**, Green D, Evanson J, Alexander BH. Injuries among Swine Workers Related to Needlesticks. EPICOH, Barcelona, Spain September 2016
5. Armstrong J, Johnson T, Pantlin G, Danzeisen J, Kobluk K, Olsen K, **Bender JB**. Use, Characterization, and Potential Zoonotic and Antibiotic Resistant Organisms among Dogs Using Dog Parks in the Minneapolis/St. Paul Metropolitan Area. Emerging Infectious Disease Conference August 2015. Atlanta GA.
6. **Bender J**. Successes and Future Challenges in Food Safety. Researchers Conference Emerging Disease at Convergence of Animal, Human, and Environmental Health. February 2015. Chiang Mai, Thailand
7. Murphy D, Raynor P, Engleman S, Ramachandran G, **Bender J**, Alexander B. Effects of production practices and environmental factors on air contaminants in swine facilities. Leman Conference St. Paul, MN September 2014.
8. Hourigan ME, Haycraft D, Zaidman B, Whitman A, Alexander B, **Bender J**. Pork Industry Injuries in Minnesota: An analysis of Workers' Compensation Data 2003-2012. North American Ag Safety Summit 2014. Minneapolis, Minnesota.
9. Snider T and **Bender J**. Prevalence and molecular epidemiology of *C. difficile* in food and companion animals, retail meat, and humans in Minnesota. Leman Conference St. Paul, MN September 2014.
10. Buswell ML, Hourigan M, Nault, **Bender JB**. A pilot study of worker safety training and injuries on small and medium sized dairies in Southeastern Minnesota. 2013 North American Ag Safety Summit. Published in *J Agromedicine* 2014;19;243-4.
11. Cherry C, Swiggum R, Hourigan M, **Bender JB**. Worker Safety Training and Injuries on Dairies in Southeastern Minnesota and Western Wisconsin. 2013. North American Ag Safety Summit. Published in *J Agromedicine* 2014;19;206-7.
12. Keiffer K, Hiber L, Buswell M, **Bender JB**. Effectiveness of Post-Operative Antibiotic Administration for Infection Control in Tibial Plateau Leveling Osteotomy Procedures. Veterinary Orthopedic Society Meeting, 2014.
13. Choi MJ, Torremorell M, **Bender J**, Her D, Jung M, Uyeki T, Wong K, Vetter D, Boxrud D, Ertl J, Smith K, Danila R, Lynfield L. Active Surveillance for Variant Influenza Among Swine, the Environment, and Employees at Live Animal Markets — Minnesota, 2012 Epidemic Intelligence Service Annual Conference April 2013.

14. M. Torremorell, Mary J. Choi, **J. Bender**, D. Her, M. Jhung, T. Uyeki, K. Wong, S. Vetter, D. Boxrud, J. Ertl, J. Nguyen, K. Smith, R. Danila, R. Lynfield. Active surveillance for variant influenza in swine, the environment, and employees at live animal markets. Center for Excellence in Influenza Research and Surveillance Annual Meeting Memphis, TN July 2013
15. M.Torremorell, **J. Bender**. M.Choi, J.Ertl, C.Corzo, M.Culhane. Detection and quantification of influenza A virus in swine environmental samples. Center for Excellence in Influenza Research and Surveillance Annual Meeting Memphis, TN July 2013
16. **Bender J.** Human-Animal Interface Studies: What have we learned and what do we need to learn? Center for Excellence in Influenza Research and Surveillance Annual Meeting Memphis, TN July 2013
17. Sepulveda R, Shaughnessy M, Snider T, Boxrud D, Cebelinski E, Smith K, **Bender J**, Johnson J, Holzbauer S, Venkitanarayanan K, Diez-Gonzalez F. Prevalence of *Clostridium difficile* in Retail Meats in Minnesota and Comparison of Animal and Human Isolates ASM Denver, CO May 2013
18. Ejobi F¹, **Bender J**², Farnham M², Hamilton K², Pelican K², Rwego I¹, Tamale A¹, Travis D², Mahero M², Wanzala S¹, Okech S¹, Kabasa J.D¹, and Majalija S¹ Developing One Health Practitioners Through Applied, Problem-Based Training: A ‘One Health Residency’ Model at Makerere University, Uganda Int Congress On Pathogens at the Human Animal Interface Brazil, 2013
19. Mahero M, Hamilton K, Hou Z, Schermann M, Tong C, Diez-Gonzalez F, **Bender J**. Evaluation of Good Agricultural Practices on Minnesota Vegetable Growing Operations. International Association for Food Protection, July 2012 Providence, RI.
20. Draper A, **Bender J**, Firshman A, Baird JB, Reed S, Mayhew IJ, Valberg SJ. The epidemiology of shivers in horses. American College of Veterinary Internal Medicine, June 2012.
21. Beaudoin A, **Bender J**. Prevalence of influenza A antibodies and risk factors for exposure in free-grazing ducks. International Conference on Emerging Infectious Diseases, March 2012. Atlanta, GA.
22. Beaudoin A, Singer R, **Bender J**, Isaac A. Using agent-based modeling of the village poultry sector in Thailand to identify opportunities for influenza transmission and potential interventions for disease control. Conf Research Worker in Animal Diseases. Chicago, IL, December 2011.
23. Newkirk R, **Bender J**. Establishing an Epidemiologic Baseline for Milkborne Disease Outbreaks: Potential Food Defense Implications. International Conference Emerging Infectious Diseases. Atlanta, GA July, 2010.
24. **Bender J**, Beaudoin A, Gramer M, Baker W, Gray G. Influenza virus among Midwestern pigs, 2008 – 2009. Council for State and Territorial Epidemiologist (CSTE). Portland, OR. June 2010
25. Johnston A, Pylka, S., Olsen K, Sreevatsan S, **Bender J**. Methicillin-resistant *Staphylococcus aureus* isolated from therapy dogs and handlers within a hospital setting. ASM-ESCMID Conference. London, UK September 2009.
26. **Bender J**, Hiber L. Infection Control and MRSA infections at a Veterinary Teaching Hospital. ASM-ESCMID Conference. London, UK September 2009.
27. Singleton SL, Poole S, Scheftel J, Smith K, **Bender JB**. Observational study regarding incorporation of measures to prevent disease associated with animals in public settings. Emerging Infectious Diseases, 2008. Atlanta, GA March 16-20.
28. **Bender J**, Coughlan K, Water K, Boxrud D, Peterson K, Buck J. Methicillin-resistant *Staphylococcus aureus* (MRSA) infections among pets in Minnesota. Emerging Infectious Diseases, 2008. Atlanta, GA March 16-20.
29. BA Goupil, AM Trent, **JB Bender**, K Olsen, A Wünschmann, BR Morningstar, *Salmonella* Prevalence in a Captive Population of Snakes. ARAV 2008 Conference

30. **Bender JB**, Coughlan K, Waters K, Boxrud D, Peterson K, Jessica Buck. Emergence of MRSA infections in pets: public health importance and nosocomial implications. Council for State and Territorial Epidemiologists, Denver, CO June 2008
31. Schwabenlander S, Gramer M, Boxrud D, Medus D, **Bender J**. Epidemiology of *Listeria monocytogenes* in animals diagnosed at the Minnesota Veterinary Diagnostic Laboratory, 2001-2005. Minnesota Spring Dairy Conference. St. Paul, MN May, 2007
32. Nordgren LD, Gerberich SG, Alexander BH, Ryan AD, Church TR, **Bender JB**. Etiology and consequences of injuries to veterinary technicians. APHA 2007
33. Peterson KD, Novo R, Larweck MA, **Bender J**. Implementation of a surgical infection surveillance program at a small animal veterinary medical center. Association of Professionals in Infection Control (APIC) June 2007, San Jose, CA.
34. Shutske J, Schermann M, Wagstrom L, **Bender J**, Kirkhorn S, Powell T. A conceptual model of bundled risk communication and education to improve agriculture worker health and safety. APHA, 2006. Boston, MA November 4-8.
35. Novo R, Peterson K, Anclam P, **Bender J**, Larweck M. Implementing a surgical site surveillance program at a small animal veterinary teaching hospital. Minnesota Association of Professional in Infection Control. Fall 2006 (Poster)
36. **Bender, J**. Historical anthrax in Minnesota. International Conference on Emerging Infectious Diseases, 2006. abstr p.156. Atlanta, GA March 19-21.
37. Peterson K, Bey R, Olsen K, **Bender J**. Antibiotic Susceptibility of *E. coli* isolates from Community Practice and ICU Patients. Points of Pride, University of Minnesota, March 14-15, 2007 (Poster).
38. **Bender JB**, Davies P, Wagstrom L. Impact of the Danish policy banning antimicrobial growth promoter use in Danish pork production. American Public Health Association Meeting, Philadelphia, PA 2005
39. Cho S, **J Bender**, S. Wells, F. Diez-Gonzalez, C. Hedberg. Herd-Level Risk Factors for Shiga Toxin Producing *Escherichia coli* (STEC) on Organic and Conventional Dairy Farms in Minnesota. 105th General Meeting of the American Society for Microbiology, 2005.
40. Cheyne M. **J Bender**, R. Lippert, A Kieke, M Vandermause, S. Jaman, K Smith, M Borchardt, E Belongia. Pre-harvest ecology of streptogramin-resistant *Enterococcus faecium* on Turkey Farms. International Conference on Emerging Infectious Diseases, 2004. abstr p. 91.
41. Minicucci L, **J Bender**, K. Blackford, D. Neitzel, P. Anderson, J. Wilson. Characterization of Equine West Nile Virus in Minnesota, 2002. International Conference on Emerging Infectious Diseases, 2004. abstr p. 123.
42. Cho S, **Bender J**, Fossler, Diaz F, Wells S, Hedberg C. Shiga Toxin producing *Escherichia coli* (STEC) from dairy farms and county fairs in Minnesota. CRWAD, 2003.
43. Wilson J, Davis A, **Bender JB**, Minicucci L. Residual effects of west nile viral encephalomyelitis in horses. American Association of Equine Practitioners, 2003
44. Kieke A, Belongia E, Vandermause M, Ivacic L, Spencer S, Borchardt M, **Bender JB** and Smith K. Preliminary analysis of streptogramin-resistant *E. faecium* from humans, retail poultry and turkey flocks. 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy Meeting, 2003
45. Firshman AM, Valberg SJ, Finno CJ, **Bender JB** and McKenzie EC. Sensitivity to insulin as a diagnostic test for polysaccharide storage myopathy in quarter horse foals. ACVIM, 2003.

46. Firshman AM, Valberg SJ, **Bender JB**, Finno CJ. Epidemiologic aspects of polysaccharide storage myopathy in Quarter Horses. 2002 ACVIM.
47. Fossler CP, Wells SJ, Kaneene JB, Ruegg PL, Warnick LD, **Bender JB**, Besser J, Bolin, C, Green A, Halbert L. Subtyping of *Salmonella enterica* serotype Typhimurium and Newport isolates from dairy cattle by pulsed-gel electrophoresis and comparison with subtype patterns from human and ill cattle populations. USAHA St. Louis, MO 2002.
48. Fossler CP, Wells SJ, Kaneene JB, Ruegg PL, Warnick LD, **Bender, JB**, Godden S, Bolin, C, Green A, Halbert L. Risk factors for *Salmonella* prevalence in conventional and organic dairy farms in the Midwest and Northeast U.S. Oct 2002 CRWAD
49. Scheftel J, **Bender J**, Leano F, Boxrud D, Smith K. *Yersinia enterocolitica* Surveillance in Minnesota. Programs and abstracts of the International Conference on Emerging Infectious Diseases, March 2002, Atlanta, GA.
50. Smith K, **Bender J**, Stenzel S, Lindeman C, Adams J, Leano F. Comparison of animal and human multidrug resistant isolates of *Salmonella* Newport in Minnesota, Programs and abstracts of the International Conference on Emerging Infectious Diseases, March 2002, Atlanta, GA
51. **Bender J**, Danila R, Lindquist J, Sundberg L, Juni B, Bartkus J, Naimi T and investigative team. An outbreak of blastomycosis in Minnesota. Programs and abstracts of the International Conference on Emerging Infectious Diseases, March 2002, Atlanta, GA
52. Medus C, **Bender J**, Smith K, Leano FT, Besser J, Hedberg CW. Foodworkers as a source for Salmonellosis. International Association of Food Protection, August 2001, Minneapolis, MN.
53. Stenzel S, Wagstrom E, Soderlund D, Bartkus J, **Bender J**, Smith K. Outbreak of enteric infections of multiple etiologies due to contact with calves at a farm day camp. 41st Annual Inter Conf Antimicrobial Agents Chemotherapy. December 2001, Chicago, IL.
54. Frank R, **Bender J**, Smith K, Besser J, Culbertson K. Outbreak of multidrug resistant *Salmonella typhimurium* (DT104) in an animal shelter with spread to humans. United States Animal Health Association Meeting, October 2000, Birmingham, AL.
55. Dunne E, Wallace D, **Bender J**, Dembek Z, Davis M, Gilbert L, Zansky S, Griffin P, Mead P. Results from 3 years of active surveillance for hemolytic uremic syndrome (HUS) through FoodNet, United States, 1997-1999. Program and abstracts of the International Disease Society of America, September 2000, New Orleans, LA.
56. Lynfield R, Loos J, Bowman R, Hunt J, Goyal K, **Bender J**, Smith K, Sayler B, Filice G, Danila R. *Toxoplasma* Seroprevalence and *Toxoplasma* Ocular Disease in Minnesota, Programs and abstracts of the International Conference on Emerging Infectious Diseases, July 2000, Atlanta, GA.
57. Wallace D, Mead P, Shiferaw B, **Bender J**, Dembek Z, Davis M, Gilbert L, Zansky S, Griffin P and the EIP FoodNet Working Group. Active surveillance for Hemolytic Uremic Syndrome in FoodNet Sites: 1997-1998, Programs and abstracts of the International Conference on Emerging Infectious Diseases, July 2000, Atlanta, GA.
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59. Soderlund D, Smith K, **Bender J**, Hedberg C. An epidemiologic investigation of cryptosporidiosis in Minnesota, Programs and abstracts of the International Conference on Emerging Infectious Diseases, July 2000, Atlanta, GA.

60. Friedman C, Reddy S, Samuel M, Marcus R, **Bender J**, Desai S, Shiferaw B, Helfrick D, Carter M, Anderson B, Hoekstra M and the EIP FoodNet Working Group. Risk Factors for Sporadic *Campylobacter* infections in the United States: A case-control study in FoodNet sites, Programs and abstracts of the International Conference on Emerging Infectious Diseases, July 2000, Atlanta, GA.
61. **Bender J**, Smith K, McNees A, Fiorentino T, Segler S, Carter M, Spina N, Keene W, Van Gilder T, and the EIP FoodNet Working. Surveillance for *E. coli* O157:H7 infections in FoodNet sites 1996-1998: No decline in incidence and marked regional variation. Group Programs and abstracts of the International Conference on Emerging Infectious Diseases, July 2000, Atlanta, GA.
62. Smith K, **Bender J**, Baker S, Boxrud D, Hedberg C. Outbreak of *Salmonella typhimurium* infections due to a microwavable chicken kiev product: Detection by pulsed-field gel electrophoresis subtyping, Infectious Disease Society of America, November 1999, Philadelphia, PA.
63. **Bender JB**, Smith KE, Boxrud DJ, Leano FT, Boeke L, Forfang J, Tobias G, Schaefer L, Besser J. Outbreak of multi-drug resistant *Salmonella typhimurium* DT104 in a home daycare. 39th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 1999, San Francisco, CA.
64. Naimi T, Kassenborg H, Hedberg C, **Bender J**, Sullivan M, Bartkus J, Besser J, Wells J, Greene K, Moore K, Osterholm M. Epidemiologic and molecular aspects of linked enterotoxigenic *Escherichia coli* outbreaks, Minnesota-1998. Interscience Conference on Antimicrobial Agents and Chemotherapy, September 1999, San Francisco, CA.
65. **Bender JB**, Leano F, Boxrud DJ, Lindeman C, Smith KE. Molecular characterization and susceptibility of animal *Salmonella typhimurium* isolates from the Minnesota Veterinary Diagnostic Laboratory. American Society of Microbiology Conference, May 1999, Chicago, IL.
66. Sullivan M, **Bender JB**, Boxrud DJ, Hedberg CW, Lifson A, Smith KE, Besser J. Characterization of virulence markers in *Shiga* toxin producing *Escherichia coli* from Minnesota. American Society of Microbiology Conference, May 1999, Chicago, IL.
67. Naimi T, Kassenborg H, Hedberg C, **Bender J**, Sullivan M, Bartkus J, Besser J, Wells J, Greene K, Moore K, Osterholm M. Epidemiologic and molecular aspects of linked enterotoxigenic *Escherichia coli* outbreaks, Minnesota-1998. 48th Annual Epidemic Intelligence Services (EIS) Conference, April 19-23, 1999, Atlanta, GA.
68. **Bender JB**, Hedberg CW, Besser JM, Boxrud DJ, Wicklund JH, Osterholm MT. Surveillance for *Salmonella typhimurium* infections in Minnesota by molecular subtype. International Conference on Emerging Infectious Diseases, March 1998, Atlanta, GA.
69. **Bender JB**, Mead P, Voetsch D, Vugia D, Fiorentino T, Koehler J, Shifera B, Griffin P. Hemolytic uremic syndrome (HUS) cases identified in the 1996 FoodNet *Escherichia coli* O157:H7 surveillance. International Conference on Emerging Infectious Diseases, March 1998, Atlanta, GA.
70. Smith KE, Besser JM, Leano F, **Bender JB**, Wicklund JH, Johnson B, Hedberg CW, Voight K, Macdonald KL, Osterholm MT. Fluoroquinolone-resistant *Campylobacter* isolated from humans and poultry in Minnesota. International Conference on Emerging Infectious Diseases, March 1998, Atlanta, GA.
71. Deneen V, Smith K, Belle-Isle P, Taylor C, Gabriel L, **Bender J**, Hedberg C, Team Diarrhea (Minnesota Dept. of Health). A large outbreak of cryptosporidiosis associated with a water sprinkler fountain. International Conference on Emerging Infectious Diseases, March 1998, Atlanta, GA.
72. Hogan JA, Hedberg CW, Besser JM, Boxrud DJ, **Bender JB**, Smith K, Deneen V, Osterholm MT. Travel-associated *Salmonella enteritidis* phage-type 4 infections identified by pulsed-field gel electrophoresis (PFGE). Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1997, Toronto, Canada.

73. Smith KE, Besser J, **Bender J**, Hogan J, Hedberg C, MacDonald K, Osterholm, M. Quinolone-resistant *Campylobacter jejuni* infections in Minnesota residents, 1996. Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1997, Toronto, Canada.
74. Besser-Wiek JM, Leano F, **Bender JB**, Hedberg CW. Fecal carriage of *Escherichia coli* O157:H7 in three child daycare center outbreaks as measured by immunomagnetic separation. 97th Meeting, American Society for Microbiology, May 1997, Miami, FL.
75. Smith KE, Besser JM, **Bender JB**, Hogan J, Hedberg CW, MacDonald KL, Osterholm MT. Quinolone-resistant *Campylobacter jejuni* infections in Minnesota residents. 46th Annual Epidemic Intelligence Services (EIS) Conference, April 14-18, 1997, Atlanta, GA.
76. Smith KE, **Bender JB**, Besser-Wiek JM, Hedberg CW, MacDonald KL, Osterholm MT. A daycare center outbreak of *Escherichia coli* O157:H7 with community spread: Implications for the use of a new laboratory method. 46th Annual Epidemic Intelligence Service (EIS) Conference April 14-18 1997, Atlanta, GA.
77. **Bender JB**, Robinson RA, Srinand S. Feeding *Salmonella* contaminated meat and bone meal to lactating dairy cattle. Proceedings of USAHA, 1994, Grand Rapids, MI.

XX. INVITED PRESENTATIONS: (Chronological Order) (1993-present)

1. Bender J. Antibiotic Stewardship in Companion Animal Practice (Webinar). Zoonosis/One Health CDC May 2016.
2. Bender J. One Health: A Holistic Approach. Travel and Tropical Medicine Seminar. Minneapolis, Minnesota April 2016
3. Bender J. (Webinar) Don't get stuck...needlestick injuries in Veterinary Medicine. AgriSafe Network. March 30, 2016
4. Bender J. Successes and Future Challenges in Food Safety. Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016.
5. Bender J. Why hasn't our efforts affected human salmonella infections? Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016
6. Bender J. Emerging diseases in animals and their impact on human health. Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016.
7. Bender J. Antibiotic stewardship in companion animal practice. Midwest Veterinary Medical Conference. Columbus, Ohio Feb 2016.
8. Bender J, Wells S and Investigative Team. Lessons learned from the H5N2 HPAI outbreak. 2nd Global Health Conference of Researchers in Emerging Disease at Convergence of Animal, Human and Environmental health. Chiang Mai, Thailand Feb 2016.
9. Bender J. Lessons learned from the H5N2 HPAI outbreak - National Food Protection Institute – webinar December 2015
10. Bender J. Antibiotic stewardship. Arkansas One Health Meeting – Little Rock, AR. Nov 14, 2015
11. Bender J. Antibiotic Resistance. Academy of Nutrition and Dietetics Annual Meeting, Food and Nutrition Conference and Expo. Nashville 2015
12. Zoonotic Influenza at the Human-Animal Interface. South Dakota Veterinary Medical Association Annual Meeting, August 2015.
13. Antibiotic Stewardship and Companion Animals. South Dakota Veterinary Medical Association Annual Meeting, August 2015.
14. MRSA in the Veterinary Clinic Setting. , South Dakota Veterinary Medical Association Annual Meeting, August 2015.

15. Zoonotic Disease Case Reports, South Dakota Veterinary Medical Association Annual Meeting, August 2015.
16. Bender J. Antibiotic Stewardship, SCAVMA Minneapolis, March 2015
17. Bender J. The Impact of Ebola, SCAVMA Minneapolis, March 2015
18. Bender J. Successes and Challenges in Food Safety. Researchers Conference on Emerging Infectious Diseases Chiang Mai, Thailand Feb 2015
19. Bender J. Companion Animal Stewardship at the 2014 NIAA Antibiotic Stewardship Meeting. Atlanta, GA Nov 2014
20. Granick J and Bender J. Antimicrobial Stewardship in Companion Animals. Grand Round – VMC Nov 2014
21. Bender J. Ebola, Rethinking the Global Response. Headliners, St. Paul, Minnesota. Nov 6, 2014.
22. Bender J. Mini-Med School – The impact of Ebola is greater than just the Disease. Nov 3, 2014
23. Bender J. Antimicrobial resistance. Center for Food Integrity – National Restaurant Association. Webinar Nov 2014
24. Bender J. Antimicrobial resistance. Center for Food Integrity – Food Manufacturers Institute. Webinar Nov 2014
25. Bender J. Our patients lick the floor...and their butt – role of the environment and challenges in infection control. New York State Veterinary Conference October 2014 Ithaca, NY
26. Bender J. Don't get stuck – needle stick injuries in veterinary medicine. New York State Veterinary Conference October 2014 Ithaca, NY
27. Bender J. Antimicrobial Stewardship and Companion Animal Practice. New York State Veterinary Conference October 2014 Ithaca, NY
28. Bender J. MRSA in the Veterinary Clinic Setting. New York State Veterinary Conference October 2014 Ithaca, NY
29. Bender J. Emerging Diseases in Animals and Their Impact on Humans. New York State Veterinary Conference October 2014 Ithaca, NY
30. Bender J. Zoonotic Influenza at the Human-Animal Interface. New York State Veterinary Conference October 2014 Ithaca, NY
31. Bender J. Our patients lick the floor...and their butt – role of the environment and challenges in infection control. North American Veterinary Dermatology Forum. Phoenix, AZ. April 2014.
32. Bender JB. Zoonotic Dermatology-related Public Health Discussions. Phoenix, AZ. April 2014.
33. Bender JB. Our patients lick the floor...and their butt – role of the environment and challenges in infection control. Grand Rounds - VMC. Jan 2014
34. Bender J, Buswell M. Needlestick Injuries and Veterinary Biologics - Agricultural Safety and Health Council of America (ASHCA) 2013 North American Agricultural Safety Summit. Minneapolis Sept 27, 2013
35. Bender J, Buswell M. Leman Conference – Occupational Risks from Veterinary Biologics. September 16, 2013 St. Paul Minnesota
36. Bender J. “One Health” – Capacity building exercise with Thailand and Vietnam University partners May 2013(RESPOND-USAID)
37. Bender JB. Salmonella from snakes used in a public outreach program. AVMA Annual Meeting Proceedings Chicago, IL July 2013

38. Bender JB. Human-animal interface studies: what have we learned and what we need to learn. Center for Excellence in Influenza Research and Surveillance Annual Meeting. Memphis, TN July 11, 2013.
39. Bender J. Needlestick injuries and Veterinary Biologics. Association of Veterinary Biologics Association Des Moines Iowa 4/9/2013
40. Bender J. Tropical Medicine – Zoonotic Parasitic Infections for Physicians. Global Health Course, Minneapolis MN.
41. Update on MRSA and Pets, A One Health Perspective. 9th Annual One Medicine Symposium. Durham, North Carolina December 5, 2012
42. Antibiotic Use in Production Animal Medicine. American Veterinary Medical Association, San Diego, CA. August 2012.
43. Expanding roles of Veterinary Public Health in the USA. 2nd Summit of Veterinary Health and Safety, Mudanjiang City, China. May 22, 2012
44. Salmonella and Pet Food. Wisconsin Veterinary Medical Association Annual Meeting. Madison, Wisconsin October 2012
45. Update on MRSA and Pets. Wisconsin Veterinary Medical Association Annual Meeting. Madison, Wisconsin October 2012
46. Nosocomial Infections. American Veterinary Medical Association, St. Louis, MO. July 2011.
47. Zoonotic Disease Case Reports. American Veterinary Medical Association, St. Louis, MO. July 2011.
48. Salmonella and Pet Food. American Veterinary Medical Association, St. Louis, MO. July 2011.
49. Update on MRSA and Pets. American Veterinary Medical Association, St. Louis, MO. July 2011.
50. Emerging Diseases in Animals and Their Impact on Humans. 23rd Annual National Agricultural Biotechnology Council (NABC) Conference. Minneapolis, MN June 2011.
51. Nebraska Association of Professionals in Infection Control, Diseases Humans and Animals Share. Omaha, NE April 2011
52. Wisconsin Farmers Union. Antibiotics in Animal Agriculture Panel, February 2011.
53. Diseases humans and animals share. Mather Lecture series. St. Paul, MN November 2010.
54. Animal Translocation, human health implications, Institute on the Environment – Frontier Lecture series. St. Paul, MN November 2010.
55. One Health – Mini Medical School Series. Minneapolis, MN October 2010.
56. Animal, Humans and MRSA, Emergence of MRSA in Food Producing Animals. AVMA, Atlanta, GA. August 2010.
57. MRSA research at the University of Minnesota. CDC Monthly conference Call on zoonotic diseases. July 2010.
58. Mad Cows, Crazy Elk, Menacing Mosquitoes...what's next? Mini-Med School. Minneapolis, MN April 2010.
59. Keeping workers safe from swine diseases. Sowbridge. Webinar. April 2010.
60. The emergence of a bad bug, infection control and public health challenges. North American Veterinary Dermatology Forum. Portland, OR. April 2010.
61. Petting zoo associated outbreaks and measures to reduce risks. Minnesota Fruit and Vegetables Growers. St. Cloud, MN Jan 2010.
62. Consumer and Farmer Surveys about Local and Organic Foods. Minnesota Fruit and Vegetables Growers. St. Cloud, MN Jan 2010.

63. Recent Concerns about Reptile-Associated Salmonellosis. Ontario Veterinary Medical Association. Montreal, Jan 2010
64. Organic Foods, Are they safer? Ontario Veterinary Medical Association. Montreal, Jan 2010
65. Current Issues for Therapy Dogs and Their Owners. St. Paul Children's Hospital. St. Paul, MN Oct 2009.
66. The emergence of a bad bug: infection control and public health challenges of MRSA. American College of Veterinary Internal Medicine Meeting. Montreal, Canada. June 2009.
67. The Veterinary Perspective: MRSA. American Society of Microbiology. Philadelphia, PA. May, 2009.
68. Is organic food safer? Western Veterinary Conference. Las Vegas, NV. Feb, 2009.
69. Interventions to control foodborne pathogens. Minnesota Environmental Health Association. St. Paul, MN Feb, 2009.
70. MRSA and Pets, Michigan Infectious Disease Society, Grand Rapids, MI November 2008
71. MRSA in pets, Companion Animal Symposium, St. Paul, MN Oct 2008
72. Pets and Zoonotic Diseases, MN Assoc for Prof Infection Control, Bloomington, MN Sept, 2008
73. MRSA in Pets, Florida Vet Med Association 2008
74. Are women really better hand washers? Florida Vet Med Assoc, 2008
75. MRSA infections in pets. American Veterinary Medical Association Annual Meeting, New Orleans, LA July 2008
76. Infection Control and MRSA. American Veterinary Medical Association Annual Meeting, New Orleans, LA July 2008.
77. Emergence of MRSA infections in pets: public health importance and nosocomial implications. CSTE, Denver, CO June 2008
78. Methicillin-resistant *Staphylococcus aureus* (MRSA) infections among pets in Minnesota. International Conference on Emerging Infectious Disease Atlanta, GA March 2008
79. Is organic food safer? – MN Veterinary Medical Assoc Feb 2008
80. The Emergence of Hypervirulent *Clostridium difficile*. University of Minnesota Grand Rounds, Dec 2007, St. Paul, Minnesota.
81. Zoonoses Updates. Emerging Infectious Disease Conference, November 2007, Minneapolis, Minnesota.
82. Pets and Zoonotic Diseases. Regions Hospital Therapy Dog Program, November 2007, St. Paul, Minnesota.
83. Is Organic Food Safer? Minnesota Dairy Conference, May 2007, St. Paul, MN.
84. Emergence of MRSA Infections in Pets: Public Health Importance and Nosocomial Implications. American Veterinary Medical Association, July 2007, Washington DC.
85. Nosocomial infections. Minnesota Veterinary Technician Association, February, 2007.
86. Animal Parasitic Infections that Affect Humans. Global Health Course, August 2007.
87. Animal and Human Health Issues. Global Health Course, August 2007.
88. CSI Food Investigations. University on the Prairie. August, 2007 Lamberton, MN
89. Menacing Mosquitoes, Mad Cows, and Demented Deer... Emerging Animal Diseases and Their Impact on Human Health. June 2007, Connections in Healthcare. Duluth, Minnesota.
90. Why should veterinary technicians be concerned about infection control? Minnesota Association of Veterinary Technicians (MAVT). February 2, 2007. Minneapolis, Minnesota.
91. Diseases human and animals share. Minnesota animal-assisted Therapy, Humane Society, November 17, 2006.
92. Animal health issues in Minnesota: Fact or Myth. Minnesota Farm Bureau. November 18, 2006.

93. Rapidly evolving science of influenza, Clinical Rounds, St. Paul, MN November 9, 2006.
94. Diseases humans and animals share. Emerging Infectious Disease Conference, Mpls, MN November 3, 2006.
95. Diseases humans and animals share. Fairview Ridges Continuing Education, Burnsville, MN. October 20, 2006.
96. Science Museum of Minnesota, Medical mysteries teacher institute. Emerging virus and training the next generation of public health workers. August 9, 2006. St. Paul, MN.
97. Food, animals and terrorism, Foreign Animal Disease Conference, Madison, WI. August 1, 2006.
98. Wild birds and the risk of avian influenza, Wildlife Rehabilitation Center Seminar, May 23, 2006.
99. Epidemiology of Cröhn's Disease and Ulcerative Colitis. Bolivia and Uruguay, April 24-30.
100. Public health concerns from *Mycobacterium bovis*, Minnesota Spring Dairy Conference, May 18, 2006.
101. Outbreak Investigations and Hospital-acquired infections, Mini-Vet School, April 6, 2006.
102. Diseases pets get from people. Minnesota Veterinary Medical Association Annual Meeting, February 4, 2006.
103. Redefing agriculture, 8th Annual Agriculture Leadership Conference. Avian Influenza and other big, bad zoonotic diseases. March 30, 2007. Chaska, Minnesota.
104. Chronic Wasting Disease from a public health perspective, SAVMA Symposium March 11 2006. Minneapolis, MN.
105. Menancing mosquitoes, mad cows, and demented deer...emerging animal diseases and their impact on human health. SAVMA Symposium March 11 2006. Minneapolis, Minnesota.
106. Understanding animal agriculture and the environment, Antimicrobial resistance. University of Minnesota Extension Service. St. Cloud, Minnesota February 15, 2006.
107. Impact of the Danish policy banning antimicrobial growth promoter use in Danish pork production. American Public Health Association Meeting, 2005.
108. What! MRSA in pets? Minnesota Association Professionals in Infection Control, Minneapolis, Minnesota. September 22, 2005.
109. Science and Journalism. Asian American Journalism Association, Minneapolis, Minnesota. August 19, 2005.
110. Preventing disease outbreaks associated with animal exhibits. Local Epidemiology Network of Minnesota, St. Paul, Minnesota. August 17, 2005.
111. Emerging Diseases. Young Scientist Roundtable, Hopkins, Minnesota. March 1, 2005.
112. Emerging diseases in animals and the impact on human populations. Western States Veterinary Conference, Las Vegas, Nevada. March 22, 2005.
113. Antimicrobial resistance issues and the use of antimicrobials in animals. Western States Veterinary Conference, Las Vegas, Nevada, March, 22, 2005.
114. Trends in foodborne disease. Western States Veterinary Conference, Las Vegas, Nevada. March 22, 2005.
115. Preventing disease outbreaks associated with animal exhibits. Western States Veterinary Conference, Las Vegas, Nevada. March 22, 2005.
116. Avian Influenza. Minnesota Veterinary Medical Association, St. Paul, Minnesota. February 3, 2005.
117. Mad Cows, Demented Deer and Crazy Mosquitoes. Minnesota InterLaboratory Microbiology Association. January 2005.
118. Protecting America's Food in an Era of Terrorism. Association of State and Territorial Officials and the Association of Public Health Laboratories Annual Meeting. September 30, 2004.
119. Emerging zoonotic diseases – Universidad Autonoma "Gabriel Rene Moreno" April 2004.
120. Food borne disease challenges – Universidad Autonoma "Gabriel Rene Moreno" April 2004.
121. Emerging diseases in Animals and their impact on humans. Cambridge, Minnesota – February 10, 2004.
122. Preparing for a career in public health. Cambridge Community College, Minnesota – February 10, 2004.
123. Emerging Infections. Henrici Society for Microbiologists – Feb 2004.
124. Reptile-associated Salmonellosis. Minnesota Herpetological Association, St. Paul, Minnesota, November 5, 2004.

125. Factors affecting surveillance data on E. coli O157 infections. Food Science Seminar – October 18, 2004.
126. Emerging Diseases in Animals and the Impact on Human Populations. CME Conference Emerging Infections in Clinical Practice and Emerging Health Threats, University of Minnesota, November 2003.
127. Zoonotic Disease. Minnesota State Fair Booth, August 2003.
128. Chronic Wasting Disease, TSE's: Their impact on human and animal health. Minnesota TSE workshop, July 2003.
129. The merging worlds of laboratorians and epidemiologists. Midwest AOAC, June 2003
130. Cargill Overview. Center for Animal Health and Food Safety University of Minnesota, April 2003.
131. Anthrax. Quarterly Meeting of the Minnesota Board of Animal Health, April 2003.
132. Chronic Wasting Disease: Protecting Public Health from a Potential Zoonosis. North Central Chapter Infectious Diseases Society of America, April 2003.
133. West Nile Virus – A national and state update. Minnesota Veterinary Medical Association Meeting, February 2003.
134. Transmissible Spongiform Encephalopathy. Minnesota Veterinary Medical Association Meeting, February 2003.
135. Chronic Wasting Disease. University of Minnesota Food Science and Nutrition Advisory Council Annual Meeting, February 2003. merging Infections in Animals and its impact on Human Populations. VA Medical Center, October 2002.
136. World of Change: The training needs and challenges of the public health epidemiologist, Minnesota State University, Moorhead. February 2002
137. World of Change: Emerging animal diseases and their impact on people. Minnesota State University, Moorhead. February 2002
138. West Nile Virus – Equine Fall Conference, November 2002.
139. Bioterrorism and pets – Small Animal Oncology conference.
140. Antibiotic use in poultry – Microbial Resistance. 53rd Annual North Central Avian Disease Conference, October 2002.
141. Animals and bioterrorism – video conference, Minnesota, October 2002.
142. Disease concerns regarding petting zoos – Ohio Veterinary Medical Association Meeting.
143. Agroterrorism and BSE. Missouri Veterinary Medical Association, January 2002.
144. Ag Bioterrorism: Is it a Possibility? Northwest Feed Manufacturers Association – November, 2002.
145. Bioterrorism and the Food System – Minnesota Legislative Aids.
146. Bioterrorism/Agroterrorism. National Agricultural Marketers Association.
147. Rabies and zoonotic diseases. Minnesota Animal Control Association.
148. Anthrax. Travel and Tropical Medicine Physicians, November, 2001.
149. Food security/bioterrorism. Video conference for local public health, food inspection, processing plants, 2001.
150. Governor's Food Safety Task Force, November 2001.
151. Egg Safety Meeting. MN Department of Agriculture, 2001.
152. Bioterrorism and our food supply. July 2002.
153. Minnesota Ag Teachers Conf. July 2002.
154. Bioterrorism and animals. National Environmental Health Association Annual Meeting. June 2002.
155. Antibiotic use in food animals. National Environmental Health Association Annual Meeting. June 2002.
156. Update on West Nile Virus. MN Horse Expo. 2002
157. Monkeys and Zoonoses. Minnesota Veterinary Medical Association Meeting, February 2002.
158. Zoonotic Disease Concerns for Wildlife Rehabilitators. Minnesota Wildlife Assistance Cooperative, St. Cloud, Minnesota, March 2001.

159. On the lookout, *E. coli* O157:H7. Food Science and Nutrition Advisory Council, St. Paul, Minnesota, February 2001.
160. Foot and Mouth Disease. Travel and Tropical Medicine Seminar Series. Minneapolis, Minnesota, March 2001.
161. Blastomycosis outbreak common to dogs and humans. American Veterinary Medical Association Annual Meeting, Boston, Massachusetts, July 2001.
162. New or Re-emerging Zoonotic Disease Issues. North Memorial Health Care Series. July, 2001.
163. Anthrax - an update. Travel and Tropical Medicine Seminar Series. Minneapolis, Minnesota, November 2001.
164. West Nile Virus – An Update. Equine Fall Conference, October 2000, St. Paul, Minnesota..
165. Molecular subtype surveillance of *Salmonella typhimurium*. A workshop on epidemiologic methods and approaches for food safety. USAHA October 2000, Birmingham, Alabama.
166. The National Association of Public Health Veterinarians/Council for State and Territorial Epidemiologists position statement on growth promotion antibiotics. Allen Lehman Pre-Conference Session, August 12, 2000, Minneapolis, Minnesota.
167. Animals as sentinels for acts of bioterrorism. Chemical and Biological Terrorism. Hennepin County Medical Center and Minnesota Department of Health. May 2000, Bloomington, Minnesota
168. Molecular subtype surveillance of *Salmonella typhimurium*. PulseNet Annual Update Meeting. May, 2000. Minneapolis, Minnesota
169. Zoonoses of Small Ruminants, Minnesota Veterinary Medical Association Convention, February 2000, Bloomington, Minnesota.
170. Bioterrorism: Is it a possibility? Minnesota Veterinary Medical Association Convention, February 2000, Bloomington, Minnesota.
171. West Nile-Like Virus in New York State, Minnesota Veterinary Medical Association Convention, February 2000, Bloomington, Minnesota.
172. Outbreak of Blastomycosis in Northern Minnesota, Minnesota Veterinary Medical Association Convention, February 2000, Bloomington, Minnesota.
173. What's in Your Picnic Basket?, Minnesota Regional Society of Gastroenterology Nurses and Associates, October 1999, Minneapolis, Minnesota.
174. Characterization of multidrug-resistant *Salmonella* Typhimurium isolated from ill food animals and humans in Minnesota, 1996-1998. Food Safety Symposium on Antimicrobial Resistance, Sept. 1999, Atlanta, Georgia.
175. Outbreak of multidrug resistant *Salmonella* Type DT104 in a home daycare setting. Food Safety Symposium on Antimicrobial Resistance, Sept. 1999, Atlanta, Georgia.
176. Food Safety Concerns and Antimicrobial Resistance. Council for State and Territorial Epidemiologists, July 1999, Madison, Wisconsin.
177. Bioterrorism, Minnesota Safety Council, May 1999, Minneapolis, MN
178. The Dog Bite Problem, March 1999, Golden Valley, Minnesota
179. Antibiotic-Resistant Issues Facing the Food Animal Practitioner. American Association of Swine Practitioners. February 1999, St. Louis, Missouri.
180. Lessons from FoodNet. Meeting of American Association of Food Hygiene Veterinarians and American Association of State Meat and Food Inspection Directors. USAHA, October 1998, Minneapolis, Minnesota.
181. *Salmonella* Infections among Minnesota Residents. Al Lehman Conference, October 1998, Brooklyn Park, Minnesota.
182. Food Safety Concerns Associated with Pork Consumption. IAMFES, August 1998, Nashville, Tennessee.
183. Foodborne Disease Surveillance. American Veterinary Medical Association, July 1998, Baltimore, Maryland.
184. Molecular Subtype Surveillance. American Veterinary Medical Association, July 1998, Baltimore, Maryland.
185. Blastomycosis in Minnesota. Minnesota Veterinary Medical Association Meeting, February 1998, Bloomington, Minnesota.
186. Antibiotic-Resistant Issues Facing the Food Animal Practitioner. Minnesota Veterinary Medical Association Meeting, February 1998, Minneapolis, Minnesota.

187. Emerging Diseases and the Veterinarian. College of Veterinary Medicine 50th Anniversary, October 1997, St. Paul, Minnesota.
188. Pathogens Found in Water Contaminated by Manure. Allen D. Lemman Swine Conference, September 1997. Brooklyn Park, Minnesota.
189. *Salmonella typhimurium* and *Escherichia coli* O157 Infections Among Minnesota Residents. Minnesota Dairy Health Conference, May 21-22, 1997, St. Paul, Minnesota.
190. Recent Concerns about Reptile-Associated Salmonellosis. Minnesota Veterinary Medical Association Meeting, February 1997, Bloomington, Minnesota.
191. Useful Records for Goat Keepers. Proceedings Minnesota Goat Conference, January 15, 1994, St. Paul, Minnesota.
192. Feeding Naturally Contaminated *Salmonella* Animal Products to Lactating Dairy Cattle - a Pilot Study. Proceedings Minnesota Nutrition Conference and National Renderers Technical Symposium, September 20-22, 1993, St. Paul, Minnesota.
193. Reducing the Risk of *Salmonella* Spread and Practical Control Measures in Dairy Herds. Proceedings Minnesota Dairy Health Conference, May 1993, St. Paul, Minnesota.