

PEER-REVIEWED PUBLICATIONS

- 2016. Coleman, M.E., H.M. Marks, T. Bartrand, D.W. Donahue, S. Hines, S. Taft. Modeling rabbit responses to single and multiple aerosol exposures of *Bacillus anthracis* spores. Manuscript submitted to Risk Analysis
- 2016. McClellan, G.E., M.E. Coleman, D. Crary, A. Thurman, B. Thran. Human dose-response data for *Francisella tularensis* and a dose- and time-dependent mathematical model of early-phase fever associated with tularemia after inhalation exposure. Manuscript in preparation for submission to Military Medicine
- 2008. Coleman, M.E., B. Thran, S.S. Morse, M. Hugh-Jones, S. Massulik. Inhalation anthrax: dose response and risk analysis. *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science* 6(2): 147-160
- 2008. Golden N.J., H.M. Marks, M.E. Coleman, C.M. Schroeder, N.E. Bauer, W.D. Schlosser. Review of induced molting by feed removal and contamination of eggs with *Salmonella enterica* serovar Enteritidis. *Vet Microbiol* 131(3-4):215-28
- 2008. Latimer, H.K., H.M. Marks, M.E. Coleman, W.D. Schlosser, N.J. Golden, J. Kause, C.M. Schroeder. Evaluating the effectiveness of pasteurization for reducing human illnesses from *Salmonella* in egg products: Results of a quantitative risk assessment. *Foodborne Pathogens and Disease* 5(1):59-68
- 2007. Coleman, M.E., B. K. Hope, H.G. Claycamp, and J.T. Cohen. Microbial risk assessment scenarios, Causality, and Uncertainty. *Microbe* 2(1):13-17
- 2006. Schroeder, C.M., H.K. Latimer, W.D. Schlosser, N.J. Golden, H.M. Marks, M.E. Coleman, A.T. Hogue, E.D. Ebel, N.M. Quiring, A.R. Kadry, J. Kause. Overview and summary of the Food Safety and Inspection Service risk assessment for *Salmonella* Enteritidis in shell eggs, *Foodborne Pathog Dis* 3(4):403-412
- 2006. Takeuchi, K., N. Mytle, S. Lambert, M.E. Coleman, M. P. Doyle and M.A. Smith. Comparison of *Listeria monocytogenes* virulence in a mouse model, *J Food Protection* 69(4):842-6
- 2005. Marks, H.M., and M.E. Coleman. Presenting scientific theories within risk assessment, *Human and Ecological Risk Assessment* 11(2):271-287
- 2005. Marks, H.M., and M.E. Coleman. Accounting for inherent variability of growth in microbial risk assessment, *International J Food Microbiology* 100(1-3):275-87
- 2004. Coleman, M.E., H.M. Marks, and N.J. Golden. Discerning strain effects in microbial dose-response data, *J Toxicology and Environmental Health* 67(8-10):667-85
- 2003. Marks, H.M. M.C. Michael, M.E. Coleman. Further deliberations of uncertainty in risk assessment, *Human and Ecological Risk Assessment* 9:1-12

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- 2003. Coleman, M.E., M. Tamplin, J. Phillips, B. Marmer. Influence of sub-optimal growth of the enteropathogen *Escherichia coli* O157:H7 on risk assessment, *International J Food Microbiology* 83(2):147-160
- 2003. Coleman, M.E. S. Sandberg, S. Anderson. Impact of microbial ecology of meat and poultry products on predictions from exposure assessment scenarios for refrigerated storage, *Risk Analysis* 23(1):215-28
- 2000. Coleman, M.E. and H.M. Marks. Mechanistic modeling of salmonellosis, *Quantitative Microbiology* 2:227-247
- 1999. Coleman, M.E. & H.M. Marks. Qualitative and quantitative risk assessment, *Food Control* 10(4-5):289-297
- 1998. Marks, H.M., M.E. Coleman, C.-T. J. Lin, & T. Roberts. Topics in microbial risk assessment: Dynamic flow tree modeling, *Risk Analysis* 18(3):309-328
- 1998. Coleman, M.E. & H.M. Marks. Topics in dose-response modeling, *J Food Protection* 61(11):1550-1559
- 1998. Marks, H.M. & M.E. Coleman. Estimating distributions of numbers of organisms in food products, *J Food Protection* 61(11):1535-1540
- 1996. Coleman, M.E., D.W. Dreesen, R.G. Wiegert. A simulation of microbial competition in the human intestinal tract, *Applied & Environmental Microbiology* 62(10):3632-3639
- 1992. Coleman, M.E., R.S. Elder, P. Basu, G.P. Koppelaar. Trace metals in edible tissues of livestock and poultry, *J Association Official Analytical Chemists* 75(4):615-625
- 1983. Chaplin, H., M.E. Coleman, M.C. Monroe. In vivo instability of red-blood-cell-bound C3d and C4d, *Blood* 62(5):965-971

OTHER MANUSCRIPTS

Solicited Articles, Chapters, Reports and Reviews

- 2012. Peer review/beta testing for FDA CFSAN iRISK tool
- 2012. Peer review of FDA CFSAN report on draft qualitative risk assessment: risk of activity/food combinations for activities (outside the farm definition) conducted in a facility co-located on a farm
- 2012. Peer review of USDA FSIS risk assessment for guiding public health-based poultry slaughter inspection
- 2012. Peer review of EPA National Homeland Security Research Center (NHSRC) draft inhalation exposure assessment following an adults re-entry into a building after the dissemination of *Bacillus atrophaeus* spores and after the application of three decontamination technologies (BOTE Project)
- 2012. Contributor to TERA review for Environmental Science and Research, New Zealand on in-depth analysis of five prioritized topics regarding future-focused (predictive) risk assessment approaches linking human health to environmental and geospatial factors

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- 2011. Peer review of EPA NHSRC draft exposure assessment plan for adults re-entry into a building after the dissemination of *Bacillus atrophaeus* spores and after the application of three decontamination technologies (BOTE Project)
- 2009 - 2011. Serve on National Academies Committee on microbial risk assessment for National Institutes of Health.
- 2010. Coleman, M.E. Reviews of Donald Schaffner's Food Safety Risk Analysis and Lee-Ann Jaykus' Food-Borne Microbes: Shaping the Host Ecosystem, invited book review in preparation for submission to *Risk Analysis*
- 2010. Peer review of EPA database, support for environmental rapid risk assessment (SERRA)
- 2010. Prepared review of National Academies Committee report on evaluation of the health and safety risks of the new USAMRIID high containment facilities
- 2009. Prepared position paper on assessment of human health effects for paper product impregnated with *Bacillus* spp. spores for Ashland Inc.
- 2009. Served on Amber Spy Glass red team for table-top exercise sponsored by an intelligence community sponsor, Boston, MA
- 2009. Prepared invited review of EPA framework for microbial risk assessment.
- 2008 - 2009. Served on National Academies committee on technical input on any additional studies to assess risk associated with operation of the National Emerging Infectious Diseases Laboratory, Boston University
- 2008. Prepared invited review of USDA FSIS methodology for microbial risk assessment.
- 2007. Served on National Academies Committee drafting report on technical input on the NIHs draft supplementary risk assessments and site suitability analyses for the National Emerging Infectious Diseases Laboratory, Boston University
- 2007. Served on program committee as reviewer for the 1st international conference on risk analysis and crisis response, September, 2007, Shanghai, China
- 2006. Prepared review of research proposal in predictive microbiology for Katholieke Universiteit, Leuven, Belgium.
- 2005. Prepared review as thesis examiner for MS candidate at University of Tasmania, *Listeria monocytogenes* and Australian smallgoods: detection and control
- 2005. Prepared review of National Academies Committee report on reopening public facilities after a biological attack
- 2003. Coleman, M.E., and H.M. Marks. Risk analysis frameworks for chemical and microbial hazards, Chapter 3, pp. 19–46 in Food Safety Handbook. Edited by R.H. Schmidt and G.E. Rodrick. John Wiley and Sons, Hoboken, NJ
- 2003. Coleman, M.E. Review of Stephen J. Forsythe's The Microbiological Risk Assessment of Food, invited book review published in *Risk Analysis* 23(6):1389-1393
- 2003. Ebel, E., W. Schlosser, K. Orloski, J. Kause, T. Roberts, C. Narrrod, S. Malcolm, M.

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- Coleman, and M. Powell. A risk assessment of *E. coli* O157:H7 in ground beef, Chapter 32 in Microbial Food Safety in Animal Agriculture: Current Topics. M. Torrence and R. Issacson, editors. Iowa State University Press, Ames, Iowa
- 2003. Coleman, M.E. Guest editorial Interactions of predictive microbiology and risk assessment, *Risk Analysis* 23(1):175-8
 - 2001. Whiting, R.C., Coleman, M.E., Narrod, C.A., Powell, M., Roberts, T. and Schlosser, W.D. Risk assessment in the control of VTEC, Chapter 18, pp 337-351. In: Duffy, G., Garvey, P. and McDowell, D.A. eds. Verocytotoxigenic *E. coli*. Food & Nutrition Press. Trumbull, CT. 457 pp.
 - 2000. Coleman, M.E. Top ten traits of good risk assessment, ORACBA Newsletter
 - 2000. Coleman, M.E. Quarterly articles for Dose-Response Specialty Group, *RISK News*
 - 1997. Coleman, M.E. FSIS/ERS microbial risk assessment collaboration: dynamic flow tree process ORACBA Newsletter

Notable Reports

- 2015. Technical Guide 316 Supplement E3: Interim biological military exposure guidelines for aerosolized *Francisella tularensis* causing pneumonic tularemia. Report prepared for US Army Public Health Command
- 2015. Technical Guide 316 Supplement E2: Data qualification report for the interim biological military exposure guidelines for aerosolized *Francisella tularensis* causing pneumonic tularemia. Report prepared for US Army Public Health Command
- 2012. Modeling rabbit responses to single and multiple aerosol exposures of *Bacillus anthracis* spores. Report prepared for US EPA/NHSRC
- 2011. Coleman, M.E. Draft qualitative microbial risk assessment for tularemia. Report prepared for BSA Environmental
- 2011. Coleman, M.E., J. Beaver, E. Eitzen, T. Regula, B. Johnson. Work plan for facility microbial risk assessment. Report prepared for BSA Environmental
- 2006. Massulik, S., M.E. Coleman, M. Stephenson, and L. Lowe. Pathogen Information Catalogue (PI CAT) development. Report prepared for US Army CHPPM
- 2006. Coleman, M.E., S. Massulik, G. Diamond, and J. Swartout. Draft working paper: Mechanistic dose-response models for pathogenic protozoans. Report prepared for US EPA National Center for Environmental Assessment
- 2005. Massulik, S. and M.E. Coleman. Tier testing schemes: methodology for assessing potential ecological effects and human health effects of genetically engineered microorganisms. Report prepared for U.S. EPA Risk Assessment Division
- 2005. P. McGinnis, M. Coleman, W. Thayer, M. Odin, D.A. Gray, P. McClure, T. Negley, S. Massulik, M. Osier. Preliminary methodology for incident-based risk assessment for biothreat agents in buildings and water distribution systems. Report prepared for U.S. EPA NHSRC

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- 2004. P. McGinnis, M. Coleman, P. McClure. Compendium of microbial risk assessment methods. Report prepared for U.S. EPA NHSRC
- 1995. Coleman, M.E. Modeling microbial competition in the gastrointestinal tract. Thesis submitted to University of Georgia, College of Veterinary Medicine as partial fulfillment of the requirements of a MS degree in medical microbiology

PRESENTATIONS

International Meetings

- 2003. 4th International Predictive Modeling Conference, Quimper, France, Accounting for inherent variability of growth in microbial risk assessment
- 2002. First International Conference on Microbial Risk Assessment, College Park, Maryland, Intricacies of growth of *Salmonella Enteritidis* in shell eggs
- 2000. Third International Conference on Predictive Microbiology in Foods, Leuven, Belgium, *Campylobacter*, *Salmonella*, *Listeria*, and the spoilage flora: Who wins the battle?
- 1998. Second International Food Safety & HACCP Conference, Noordwijk, The Netherlands, Invited lecture on qualitative and quantitative risk assessment
- 1997. World Congress on Food Hygiene, The Hague, The Netherlands. Invited lecture on exposure and dose-response modeling for microbial risk assessment
- 1996. U.S./Japan Conference on Cholera and Diarrheal Diseases, Nagasaki, Japan. Invited lecture on microbial risk assessment

National/Regional/Client Meetings

- 2015. SRA, Arlington, VA, organized and co-chaired round table panel symposium on the influence of the microbiota on microbial dose-response relationships
- 2015. WAPF Wise Traditions, Anaheim, CA, invited lecture on risk beyond numbers of foodborne illnesses: understanding data, gaps, and assumptions
- 2014. Society for Risk Analysis (SRA), Denver, CO, presentation on exploring disagreements regarding health risks of raw and pasteurized human & bovine milk
- 2014. U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID), Frederick, MD, workshop facilitator for determining biological military exposure guidelines for tularemia
- 2013. SRA, Baltimore, MD, presentation on modeling rabbit responses to acute and multiple aerosol exposures of *Bacillus anthracis* spores
- 2012. USAMRIID, Frederick, MD, workshop facilitator for data qualification for tularemia
- 2012. SRA, Syracuse, NY, facilitator of SRAonCampus event on risk analysis and fracking
- 2011. SRA, Charleston, SC, organizer and convener of symposium on dose response for biothreats and workshop on advancing mechanisms of mucosal interactions to inform

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microbial dose-response assessment

- 2011. Armed Forces Public Health Conference, Hampton, VA, invited presentation on foodborne and waterborne pathogens: travelers diarrhea
- 2010. SRA, Salt Lake City, UT, invited presentation in symposium series on engineered nanomaterials (ENMs) in foods entitled Problem formulation for microbes and ENMs in gastrointestinal ecosystems
- 2010. Support and evaluation of table-top exercises for DHS FEMA Anthrax Response Exercise Series
- 2009. SRA, Baltimore, MD, organizer and convener of symposium series on Advancing mechanistic knowledge on microbial risk in respiratory and gastrointestinal systems
- 2009. EPA/CDC workshop on state-of-the-science for dose-response relationships in microbial risk assessment, Atlanta, GA, presentation on accounting for uncertainty and variability with mechanistic knowledge in dose-response assessment
- 2008. Society for Toxicology, Baltimore, MD, presentation on PBBK/BD model of *Francisella tularensis* in rhesus monkeys
- 2008. SRA, Boston, Massachusetts, presentation on modeling inhaled microbes in primates to inform discussions on acceptable risk
- 2008. American Society for Microbiology (ASM), Boston, MA, presentation on Integration of Benchmark Dose and Physiologically-Based BioKinetic (PBBK) modeling to derive Human Hazard Predictors for biothreat agents
- 2008. Joint EPA DHS conference, Bethesda, MD, presentation on Primate Physiologically Based BioKinetic/BioDynamic (PBBK/BD) modeling to derive health hazard predictors for biothreat agents
- 2007. SRA, San Antonio, Texas, presentation on Health Hazard Predictor (HHP) approach for microbial risk assessment
- 2007. ASM, Toronto, Canada, presentation on decision support tool for risk characterization of biothreat agents
- 2007. Toxicology and Risk Assessment Conference, West Chester, Ohio, presentation on Microbial Risk Assessment Center of Excellence (M-RACE) at SRC
- 2006. SRA, Baltimore, MD, presentation on sensitivity analysis for anthrax dispersion models
- 2006. Upstate NY SRA, Albany, NY, presentation on thresholds: why were not dead yet
- 2006. American Society for Microbiology, Orlando, FL, presentation on mechanistic modeling for cryptosporidiosis
- 2006. ASM Biodefense Meeting, Washington DC, presentation on innate resistance and risk of *Bacillus anthracis* septicemia
- 2005. SRA, Orlando, FL, presentation on Dose-Response approaches for host-pathogen interactions

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- 2005. Conference on Chemical Biological Research, Timonium, MD, invited presentation on alarming sensors: exposure ≠ adverse effects
- 2005. Society of Toxicology, New Orleans, LA, poster presentation on development of a microbial risk assessment methods compendium and assessment of secondary data utility
- 2004. SRA, Palm Springs, CA, presentations on: next generation of PBPK models: physiology of inhalation exposures for anthrax spores; and teaching microbial risk assessment
- 2004. Chemical, Biological, and Radiological Technology Alliance (CBRTA) meeting, Plantation, FL, presentation on Development of a decision support system for biothreat agents
- 2004. EPA Microbial Risk Assessment Workshop, Cincinnati, OH, mechanistic view of bodies of evidence: what can be learned from non-linearities and inconsistencies?
- 2004. 2004 Syracuse Symposium, Syracuse, NY, poster presentation on development of a Microbial Risk Assessment Center of Excellence (M-RACE) at SRC
- 2004. Risk Assessment Consortium public meeting on data utility, College Park, MD, presentation on data utility : improvements by targeting study design and sampling plans
- 2003. SRA, Baltimore, MD, presentation on *Campylobacter* risk profile
- 2003. Toxicology and Risk Assessment Conference, Fairborne, OH, invited presentation on strain variability in microbial risk assessment
- 2002. SRA, New Orleans, LA, intricacies of modeling growth of *Salmonella* Enteritidis in shell eggs; dose-response demo: depicting uncertainty
- 2001. SRA, Seattle, WA, extrapolating predictive microbiology growth models to risk assessment for *E. coli* O157:H7
- 2001. Invited Presentation at ASM, Orlando, FL, does epidemiology inform risk assessment?
- 2000. SRA, Arlington, VA, mechanistic modeling for salmonellosis; invited paper on fostering advances in microbial dose-response modeling; *Campylobacter*, *Salmonella*, *Listeria*, and the spoilage flora: who wins the battle?; alternative approaches for surrogate dose-response models for *Escherichia coli* O157:H7
- 1999. SRA, Atlanta, GA, Surrogate dose-response assessment for *E. coli* O157:H7
- 1999. American Public Health Association, Chicago, IL, invited papers on lead in baby food and risk communication informed by risk assessment for *E. coli* O157:H7
- 1999. International Association of Milk, Food and Environmental Sanitarians (IAMFES), Dearborn, Michigan, invited lecture on dose-response assessment for *E. coli* O157:H7
- 1998. SRA, Phoenix, AZ, applications of stochastic process to microbial risk assessment, human salmonellosis model informed by animal data, and public health segment for farm-to-table risk assessment of *E. coli* O157:H7 in ground beef
- 1997. SRA, Washington, DC. data-based dose-response modeling for *Salmonella* and transforming nitrite regulation in bacon into a HACCP system
- 1997. IAMFES, Orlando, FL. Invited lectures on risk assessment/risk management: clarifying

the relationships; topics in dose-response modeling; and estimating distributions of numbers of organisms in food products

- 1996. SRA, New Orleans, LA, topics in microbial risk assessment

Other Presentations and Lectures

- 2009. Interagency Risk Assessment Consortium conference, Baltimore, MD, invited presentation on mechanisms from mice to men
- 2009. American Association for Advancement of Science, Washington, DC, invited presentation on risk assessment for biothreats
- 2009. Wheler Conference at Cazenovia College, Cazenovia, NY, presentation on disaster preparedness for biothreat attacks
- 2008. SUNY Environmental Science and Forestry guest lecture, hazard characterization for microbial risk assessment
- 2008. SUNY Environmental Science and Forestry guest lecture, food safety risk assessment
- 2007. Syracuse University Sonia Kovalevsky Festival lecture, perspective on microbial risks
- 2001. George Washington University Risk Center lecture, describing host variability in dose-response modeling
- 2000. Risk Assessment Consortium, technical session chair and panel moderator predicting human dose-response relationships from multiple biological models: issues with *Cryptosporidium parvum*
- 2000. Johns Hopkins School of Public Health lecture, microbial dose-response assessment
- 2000. USDA Graduate School lecture, top ten traits of good risk assessment
- 2000. University of Illinois, Champaign/Urbana lecture, mechanistic modeling for salmonellosis: Dose-Response modeling for microbial risk assessment
- 2000. Illinois Council on Food and Agricultural Research, critique of strategic research initiatives for food safety
- 1999. National Advisory Committee on Microbiological Criteria in Foods, dose-response assessment for *E. coli* O157:H7 in beef
- 1999. Joint Institute for Food Safety and Applied Nutrition Risk Assessment Clearinghouse Workshop, Riverdale MD, data gaps: risk assessment for *E. coli* O157:H7 in beef?
- 1998. Food Safety Inspection Service public meeting on risk assessment for *E. coli* O157:H7 in Beef, Public Health Segment for risk assessment of *E. coli* O157:H7 in ground beef
- 1998. Food Safety Initiative Technical Workshop, Riverdale, MD, relating numbers of foodborne pathogens to human illness, limitations of current dose-response models: information needs for risk assessors
- 1998. USDA public meeting on premature browning of hamburger, Washington, DC, visual cues and risk

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- 1997. USDA public meeting on Premature Browning of Hamburger, Washington, DC, microbial risk assessment in the Food Safety and Inspection Service
- 1997. International Life Sciences Institute, Washington, DC, foodborne versus waterborne microbial risk assessment: issues in exposure and dose-response modeling
- 1997. Field Epidemiology Officers Training, Atlanta, GA. outbreak of *E. coli* O157:H7 in Japan; and microbial risk assessment: how epidemiology fits in
- 1997. ORACBA Risk Analysis course, Washington, DC, risk assessment in FSIS
- 1995. USDA Food Safety Research Workshop, Washington, DC, fault tree analysis: development and documentation of *E. coli* O157:H7 ground beef model
- 1995. Eastern Food Science Conference, Princeton, NJ, risk assessment and food safety
- 1995. Thesis Defense Seminar, University of Georgia, Dept. Medical Microbiology, Athens, GA, modeling microbial competition in the gastrointestinal tract
- 1994. National Joint Council of Meat and Poultry Inspectors, Washington, DC, bioluminescence technology for in-plant training study
- 1993. USDA/APHIS lecture, Fort Collins, CO, modeling strategies and tools

Workshops

- 2011. SRA, Charleston, SC, organizer of workshop and symposium on mechanistic knowledge of respiratory and gastrointestinal systems informing microbial dose-response assessment for inhaled and ingested pathogens
- 2011. EPA workshop, Cincinnati, OH, invited expert for review and design of low-dose *B. anthracis* inhalation exposures
- 2011. FDA workshop, Washington, DC, invited expert for dose-response assessment for *Listeria monocytogenes*
- 2010. CDC/EPA workshop, Atlanta, GA, invited expert for microbial dose response assessment workshop
- 2002. SRA, New Orleans, LA, organizer of workshop on mechanistic dose-response modeling for microbial risk assessment
- 2001. SRA, Seattle, WA, organizer of workshop on decision support tools for microbial risk assessment
- 1998. SRA, Phoenix, AZ, organizer of workshop on microbial risk assessment data and methodology
- 1998. Food Safety Initiative Technical Workshop, Washington, DC, organized workshop on relating numbers of foodborne pathogens to human illness, limitations of current dose-response models: information needs for risk assessors
- 1996-2000. US Delegation for Codex Alimentarius Commission Committee on Food Hygiene, invited expert in workshops advising on microbial risk assessment and key contributor to expedited development of principles and guidelines for microbiological risk assessment