

Joseph N.S. Eisenberg

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Education

PhD	University of California, Berkeley/San Francisco	Bioengineering	1992
MPH	University of California, Berkeley Dept. of Environmental and Health Sciences	Public Health	1991
MS	University of California, Berkeley/San Francisco	Bioengineering	1986
BS	University of California, Berkeley	Electrical Engineering	1982

Academic Experience

2014-present	Professor	Department of Epidemiology, University of Michigan
2008-2013	Associate Professor (Dry appointment)	Department of Epidemiology, University of Michigan Department of Environmental Health Sciences, University of Michigan
2006-2008	Assistant Professor	Department of Epidemiology, University of Michigan
2003-2005	Adjunct Associate Professor/Associate Research Scientist	School of Public Health, U.C. Berkeley (Divisions of Environmental Health Sciences and Epidemiology)
1998-2003	Adjunct Assistant Professor/Assistant Research Scientist	School of Public Health, U.C. Berkeley (Divisions of Environmental Health Sciences and Epidemiology)
1994 – 1996	Postdoctoral Fellow	Environmental Biology, NSF The effects of resource acquisition strategies by <i>Aedes sierrensis</i> larvae on larval and protozoan population dynamics within treeholes of northern California.
1993 – 1995	Assistant Research Bioengineer	Mechanical Engineering, U.C. Berkeley, Dr Auslander System issues pertaining to controlled ecological life-support systems The study of the transmission dynamics of mosquito-borne viral encephalitis
1992 – 1993	Postdoctoral Researcher	School of Public Health, U.C. Berkeley, Dr. Robert Spear A quantitative study in control strategies for schistosomiasis The study of the transmission dynamics of mosquito-borne viral encephalitis.
1989 – 1991	Research Assistant	School of Public Health, U.C. Berkeley, Dr James Hardy Developed and analyzed mathematical models of the population dynamics of mosquito vectors of viral encephalitis.
1985 – 1988	Research Assistant	Molecular and Cell Biology, U.C. Berkeley, Dr. Walter Freeman Developed olfactory bulb models using electronic hardware (neural networks).

Service

Expert panels/Invited workshops (International)

UM, Rio de Janeiro (2013)	Symposium. Part of coalition from UM to initiate UM – Fiocruz collaboration
NSF, Sao Paulo (2013)	Institute. Faculty member of a 10-day Quantitative Microbial Risk Assessment Innovation Institute
International Statistical Institute (ISI) 2011	Symposium. Approaches to estimate the burden of waterborne disease
NIH Fogarty, Buenos Aires 2011	Workshop. Sociological and Ecological Study of Infectious Disease Dynamics: toward integrated research and analysis of social, epidemiological and ecological studies of infectious disease transmission and control
International Society for Environmental Epidemiology 2010	Symposium. Influenza: Characterizing Transmission and Selecting Interventions through Models and Experiments, Seoul Korea
CDC/ICMR 2009	Joint Indo-U.S. Workshop on Climate Change and Health Goa, India
United Nations University 2009	Planning meeting to start up a UN sponsored project on water and health, Kuala Lumpur, Malaysia
World Health Organization 2007	Guidance on assessing burden of disease Surrey, UK
World Health Organization 2002	Workshop on National Environmental Burden of Disease Geneva, Switzerland
World Health Organization 2000	Expert consultation on a methodology for assessment of environmental burden of disease Buffalo
World Health Organization 1999	Harmonized risk assessment for water-related microbial hazards Stockholm

Expert panels/Invited workshops (Domestic)

Unicef/World Health Organization New York 2014	Member of Joint Monitoring Program (JMP) task force
University of North Carolina, Chapel Hill 2014	Invited talk for symposium on antibiotic resistance from environmental sources
George Washington University, Wash DC 2014	Invited talk for the Department of Environmental Health Sciences
Institute of Medicine, Wash DC 2013	Invited speaker in forum entitled: The influence of global environmental change on infectious disease dynamics
Yale, New Haven 2013	Invited talk on Environmental Determinants of Infectious Disease, Department of Epidemiology
EPA 2013	Peer Review : Systematic Review Evaluating Health Risks Associated with Exposure to Fecal Pathogens: Water-Based Recreational Activities
Emory, Atlanta 2013	Invited talks on The Evolution and Spread of Antibiotic Resistance: A Transmission Modeling Framework
NIH 2013	Standing member of IRAP student section for the NIH
NIH 2012	Member of an NIH review panel entitled 'Parasites and Vectors IAM (ZRG1 IDM-R (02))
NIH 2012	Invited speaker for MIDAS program, sponsored by NIGMS-NIH on modes transmission.

FDA 2012	Peer Review Meeting for FDA's Draft Quantitative Predictive Risk Assessment Model (QPRAM)
USEPA 2011	Peer Review Meeting for EPA's Draft Microbial Risk Assessment Guideline
NIH 2011	Member of an NIH review panel entitled 'International Research in Infectious Diseases including AIDS' (IRIDA (ZRG1 IDM-R (50))
NRC 2011	Committee to review risk assessment approaches for the medical countermeasures test and evaluation facility at Fort Detrick, MD
Cornell 2010	National Synthesis Workshop: Pathogens in Rural and Agricultural Water and Watersheds, Ithaca New York
North Carolina State 2010	Farm to Fork: A Biosolids Educational Summit Raleigh, North Carolina
USEPA 2010	Symposium on Ground Waterborne Infectious Disease Epidemiology, Etiologic Agents and Indicators. Washington DC
Fritz Institute 2010	H1N1 Flu meeting bringing together academics and public health workers to talk about risk communication issues
FDA 2009	Peer review of document entitled: Risk Profile: Options for Reducing Norovirus Transmission from Food Workers to Ready-to-Eat Food
USEPA 2009	Peer review of document entitled: Protocol for Microbial Risk Assessment to Support Human Health Protection for Water-Based Media
American Water Works Association 2009	Member of advisory committee. Meeting to evaluate project on 'Managing distribution system pressures to protect water quality' American Water, Mt Laurel New Jersey
NSF/NIH 2009	Peer review panel for the Ecology of Infectious Disease (EID) program. Washington DC
USEPA 2008	Peer review workshop on for EPA's draft problem formulation for human health risk assessment of pathogens in land-applied biosolids Cincinnati, OH
USEPA 2007	Public Health Expert Panel for TCR advisory committee Washington DC
Water Environment Federation 2007	Workshop presenter at WEFTEK conference (pathogen risks in biosolids) San Diego CA
American Water Works Association 2007	Workshop on estimating waterborne disease burden Tucson, AZ
USEPA 2007	Invited speaker Integrating population dynamics into microbial risk estimation
American Academy of Microbiology 2006	Colloquium entitled "Clean water: What is acceptable risk?" Tucson, AZ
Environmental Protection Agency 2004	Workshop on models and tools for including susceptibility, immunity, and secondary spread into microbial risk assessment Cincinnati, OH
Water, Environment Research Foundation 2003	Workshop on indicators for pathogens in wastewater, biosolids, and stormwater San Antonio, Tx
Interstate Shellfish Sanitation Conference	Invited speaker

2003	Portland, OR
Water, Environment Research Foundation	Biosolids research summit
2003	Alexandria, VA
Environmental Protection Agency	Workshop on developing a microbiological risk assessment framework Tools, Methods, and Approaches
2002	Washington DC
George Washington University	Workshop on defining susceptibility in microbial risk assessment
2001	Washington DC
Environmental Protection Agency	Workshop on emerging infectious disease agents
2001	Cincinnati
Center for Disease Control	National estimate of waterborne disease
2001	Atlanta
Environmental Protection Agency	Waterborne exposure routes of microbial pathogens
2000	Washington DC
Environmental Protection Agency	Microbial risk assessment workshop
1999	Cincinnati
Environmental Protection Agency	Microbial risk assessment workshop
1999, 1995	Washington DC
Environmental Protection Agency	Comparative risk workshop
1997	Cincinnati

Peer Review (grants and journals)

Reviewer 2011:

Proceedings of the National Academy of Sciences

Reviewer 2010:

American Journal of Tropical Medicine and Hygiene, International Journal of Health and Geography

Reviewer 2009:

Risk analysis, Ecohealth, Proceedings for the Royal Society, Environmental Health Perspectives, American Journal of Epidemiology, Philosophical Transactions of the Royal Society, Risk Analysis, Lancet ID

Reviewer 2008:

International Journal of Environmental Health, Risk Analysis

Reviewer 2007:

American Journal of Tropical Medicine and Hygiene, Environmental Health Perspectives

Reviewer prior to 2007:

Environmental Health Perspectives, American Journal of Epidemiology, Epidemiology

Environmental Protection Agency
2005

Reviewer for a Microbial Risk Assessment Center proposal
Cincinnati OH

Environmental Protection Agency
2000

Peer-review of groundwater rule
Washington DC

Environmental Protection Agency
2000

Peer-review of ORD Contaminant Candidate List Research Strategy
Washington DC

National Aeronautics and Space
Association
1994

Peer Review panel for research grants

Washington DC

California Dept. of Health Services
1993

Blue ribbon panel on Assessment and Acceptability of Risk
Sacramento, CA

University of Michigan service

Member of the Department of Epidemiology Admissions committee (2006 – 2008)

Co-Chair of the Department of Epidemiology Curriculum committee (2008 – 2009)

Co-Chair Department of Epidemiology Doctoral committee (2010 – 2012, 2013-2014)

Chair of the Department of Epidemiology Search committee for an open rank infectious disease
epidemiology faculty member (2010/2011, 2014)

Member of the School of Public Health Global Health committee (2009 – 2010)

Faculty affiliate at the Center for Global Health

2006 (Fall) Lectured at Undergraduate Research Opportunity Program (UROP)
research seminar

2007 (Winter) Lectured at Public Policy Latin American Research Seminar (Prof.
Katherine Terrell)

2006-present Guest lecturer in EPID 506, 554, 608, and 672

Memberships in Professional Societies

American Society of Tropical Medicine and Hygiene

Member of the Water, Sanitation and Hygiene (WASH) committee for choosing
symposiums, talks, and posters

Teaching (courses and advising)

Semester long courses

Sem/Yr	Course No	Course Title
<u>School of Public Health, University of California, Berkeley</u>		
1998 – 2004	PH 252b	Modeling Infectious Disease Processes (2 units)
2001	PH 250b	Epidemiologic methods (4 units)
2002	PH 250a	Introduction to Epidemiology (4 units)
<u>School of Public Health, University of Michigan</u>		
2007-present	EPID 602	Foundations in infectious disease transmission modeling (3 units)
2008-2009	EPID 503	Strategies and Uses of Epidemiology (3 units) Taught twice.

2009 - 2012	EPID 600	Introduction to Epidemiology (3 units)
2013	EPID 630	Environmental determinants of infectious disease (3 units)
2014	EPID 664	Field methods in developing countries (2 units)

Short courses

Training on infectious disease modeling (Jiangsu Institute of Parasitic Disease) Wuxi, China
 Oct, 2001
 Five day training course on infectious disease modeling

Student advising

Name	Status	Year	Program	
<u>University of California, Berkeley</u>				
Sukhminder Sandhu.	Co-chair	2004	Epidemiology	PhD
Sarah Bates	Advisor	2006	Environmental Health Sciences	MS
Manish Desai	Co-chair	2010 (expected)	Environmental Health Sciences	PhD
James Scott	Co-chair	2007	Epidemiology	PhD
Karen Levy	Co-chair	2007	Environmental Science and Policy Management	PhD
<u>University of Michigan (Current PhD students)</u>				
Alicia Mullis	Chair		Epidemiology	PhD
James Fuller	Chair		Epidemiology	PhD

Velma Lopez	Chair		Epidemiology	PhD
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University of Michigan (Past PhD students and postdocs)

Pete Larson	Committee and Post doc advisor	2013 - 1014	Epidemiology	PhD Post Doc
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Title: Anti-Malarial Interventions in Two Sub-Saharan African Countries: Access, Availability and Compliance

Current position: Assistant professor University of Nagasaki

Bryan Mayer	Chair	2013	Epidemiology	PhD
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Title: Examining the effect of immunity on infection dynamics at the host, population, and multi-population levels

Current position: Postdoctoral Research Fellow Clinical Research Program / Vaccine and Infectious Disease Fred Hutchinson Cancer Research Center

Meghan Milbrath	Chair	2012	Environmental Health Sciences	PhD
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Title: Individual-Level Heterogeneity in Environmental Risk Assessment Models

Current position: Postdoctoral Research Associate in Entomology, Michigan State University.

Darlene Bhavnani	Chair	2012	Epidemiology	PhD
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Title: Diarrheal Disease in Northwestern Ecuador: Prevalence, Pathogenicity, and Transmission of Enteric Pathogens Across the Region

Current position: CDC/CSTE Applied Epidemiology Fellow CDC Division of Global Migration and Quarantine, Quarantine Station, JFK New York City Department of Health and Mental Hygiene Bureau of TB Control

Kyle Enger	Co-chair	2012	(at MSU)	PhD
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Title: Systems modeling of endemic childhood diarrhea transmission in developing countries & interventions to mitigate it

Current position: Senior Health Care Epidemiologist, Blue Cross Blue Shield of Michigan, Dept. of Clinical Epidemiology and Biostatistics

Nottasorn Pilpat	Co-chair	2011	Epidemiology	PhD
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Title: Methicillin-Resistant Staphylococcus Aureus (MRSA) Exposure Assessment in Hospital Environment

Ethan Romero	Committee	2011	Epidemiology	PhD
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Title: Sexual risk volatility: evidence and implications

Jon Zelner	Co-chair	2010	Sociology	PhD
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Title: Integrating social and biological processes of infectious disease transmission at three levels: Household, community and region

Current position: RAPIDD/NIH Postdoctoral Fellow (Bryan Grenfell), Dept. of Ecology and Evolutionary Biology Princeton University

Ian Spicknall	Co-chair	2010	Epidemiology	PhD
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Title: Environmental Infection Transmission: Assessing Routes of Transmission for Influenza and other Agents

Current position ORISE (Oak Ridge Institute for Science and Education) fellow in the Division of STD Prevention (DSTDP) at the CDC

Jason Goldsick	Advisor	2011-2012	Epidemiology	Post doc
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Current position: Assistant professor Oakland University

Sheng Li	Co-chair	2011	Epidemiology	PhD
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Title: Environmentally Mediated Transmission Models for Influenza and the Relationships Between Climate and Influenza Morbidity

Katherine Connors	Advisor	2009	Epidemiology	MPH
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Currently a doctoral student at Cornell University

Josep Serra	Advisor	2009	Epidemiology	Post doc
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Currently a researcher at Telefonica, Catalonia, Spain

Publications

Peer Reviewed (* senior author)

1. Armas-Freire P.I., Trueba G., Proaño-Bolaños C., Levy K., Zhang L., Marrs C.F., Cevallos W., Eisenberg J.N.S. (Submitted) Unexpected distribution of qnrB gene in E. coli from different origins in Ecuador. *International Microbiology*.
2. Fuller J.A., **Eisenberg J.N.S.*** (Submitted) A unifying theory of herd protection: A simulation of sanitation interventions. *Epidemiology*
3. Lamparelli C.C., Pogreba-Brown K., Verhougstraete M., Zanolli Sato, M.I., de Castro Bruni A., Wade T.J., **Eisenberg J.N.S.*** (Submitted) Are fecal indicator bacteria appropriate measures of recreational water risks in the tropics: A cohort study of beach goers in Brazil? *Water research*
4. Bhavnani, D., Bayas, R., Zhang, L., Trueba, G., Foxman, B., Marrs, C., Cevallos, W., **Eisenberg, J.N.S.*** (submitted) Distribution of Four Diarrheagenic *Escherichia coli* Pathotypes Across Space and Time in Northwestern Ecuador. *American Journal of Tropical Medicine and Hygiene*
5. Zhang L, Levy K, Trueba G, Cevallos W, Trostle J., Foxman B., Marrs C., **Eisenberg J.N.S** (In Press) The effects of selection pressure and genetic association on the relationship between antibiotic resistance and virulence in *Escherichia coli*. *Antimicrobial Agents and Chemotherapy*.
6. Chiriboga J., Barragan V., Arroyo G., Sosa A., Birdsell D.N., España K., Mora A., Espín E., Mejía M.E., Morales M., Pinargote C., Gonzalez M., Hartskeerl R., Keim P., Bretas G., **Eisenberg J.N.S.**, Trueba G. (In Press) High Prevalence of Intermediate *Leptospira* DNA in Febrile Humans From Urban and Rural Ecuador. *Emerging Infectious Disease*
7. Rao G, **Eisenberg J.N.S.**, Kleinbaum D., Cevallos W., Trueba G., Levy K., (2015) Spatial Variability of *Escherichia coli* in Rivers of Northern Coastal Ecuador. *Water* 7, 818-832; doi:10.3390/w7020818.
8. Fuller J., Westphal J., Kenney B., **Eisenberg J.N.S.*** (2014) The joint effects of water and sanitation on diarrheal disease burden: A multi-country analysis of the demographic health surveys. *Tropical Medicine and International Health*
9. Lofgren E, Halloran M.E., Riversa C.M., Drake J.M., Porco T.C., Lewis B., Yange W., Vespignani A., Shaman J., **Eisenberg J.N.S**, Eisenberg M.C., Marathe M., Scarpino S.V., Alexanderj K.A., Meza R., Ferrari M.J., Hyman J.M., Meyers L.A., Eubank S. (2014) Opinion: Mathematical models: A key tool for outbreak response. *Proceedings of the National Academy of Sciences* Dec 23; 111(51):18095-6 (PMCID: PMC4280577).
10. Halloran ME, Vespignani A, Bharti N, Feldstein LR, Alexander KA, Ferrari M, Shaman J, Drake JM, Porco T, **Eisenberg JN**, Del Valle SY1, Lofgren E, Scarpino SV, Eisenberg M, Gao D, Hyman JM, Eubank S, Longini IM Jr (2014) Ebola: mobility data. *Science* Oct 24;346(6208):433.
11. Rivers C, Alexander K, Bellan S, Valle S, Drake J, **Eisenberg J**, Eubank S, Ferrari M, Halloran M, Galvani A, Lewis B, Lewnard J, Lofgren E, Macal C, Marathe M, Mbah M, Meyers L, Meza R, Park A, Porco T, Scarpino S, Shaman J, Vespignani A, Yang W (2014) Ebola: models do more than forecast. *Nature*, 515(492)
12. Fuller J., Clasen T., Heijnen M., **Eisenberg J.N.S.*** (2014) Shared sanitation and the prevalence of diarrhea in young children: Evidence from 51 Countries, 2001-2011. *American Journal of Tropical Medicine and Hygiene* Jul;91(1):173-80 (PMC4080558).
13. Heijnen M, Rosa G, Fuller J, **Eisenberg J.N.S**, Clasen T. (2014) The geographic and demographic scope of shared sanitation: an analysis of national survey data from low- and middle-income countries. *Trop Med Int Health* 2014 Aug 26. Epub 2014 Aug 26
14. Walker D., Benka V., Massey A., Deem S.L., Kinnaird M., O'Brien T., Wanyoike S., Njoka J., Butt B., Fofopoulos J., **Eisenberg J.N.S.**, Hardin R. (2014) Q Fever Risk Across a Dynamic, Heterogeneous Landscape in Laikipia County, Kenya. *EcoHealth* Sep;11(3):429-33.

15. Bhavnani D., Goldstick J.E., Cevallos W., **Eisenberg J.N.S.*** (2014) Identifying diarrheal disease vulnerability to local climate variation in northwestern Ecuador. *American Journal of Tropical Medicine and Hygiene* Apr;90(4):705-11 (PMC3973516).
16. Vasco G., Trueba G., Atherton R., Calvopiña M, Cevallos W., Eguiguren M., Andrade T., **Eisenberg, J.N.S*** (2014) Identifying etiological agents causing diarrhea in low income Ecuadorian communities. *American Journal of Tropical Medicine and Hygiene* 91(3): 563-569.
17. Ahn J., Johnson T.D., Bhavnani D., Eisenberg J.N.S., Mukherjee B. (2014) Spatial and spatio-temporal epidemiology: A Space-Time Point Process Model for Analyzing and Predicting Case Patterns of Diarrheal Disease in Northwestern Ecuador. *Spatial and Spatio-temporal Epidemiology* 9:23–35 (PMCID: PMC4044631)
18. Goldstick J., Trostle J., **Eisenberg J.N.S.*** (2014) Ask when - not just whether - it's a risk: How regional context influences local causes of diarrheal disease. *American Journal of Epidemiology*. May 15;179(10):1247-54 (PMC4010187).
19. Mahajan R., Uber J., **Eisenberg J.N.S.*** (2014) A systems dynamics model of combined sewer overflows suitable for river basin scale exposure assessments. *Water Quality, Exposure and Health*, 5(4): 163-172.
20. Levy K., Anderson L., Robb K.A., Cevallos W., Trueba G., **Eisenberg J.N.S*** (2014) Effectiveness vs. Efficacy of Point-of-use Chlorination. *Water Research* 54:69-77 (PMC3975601)
21. Carlton E., **Eisenberg J.N.S.**, Goldstick J., Cevallos W., Trostle J., Levy K (2014) Heavy rainfall events and diarrhea incidence: The role of social and environmental factors. *American Journal of Epidemiology*, 179(3):344-52 (PMC3895100).
22. Plipat N., Spicknall I., Koopman J.S, **Eisenberg J.N.S*** (2013) The dynamics of MRSA exposure in a hospital model and the potential for environmental intervention. *BMC Infectious Disease*, 13:595 (PMC3878576).
23. Schafrick N.H., Milbrath M.O., Wilson M.L., **Eisenberg J.N.S.*** (2013) Spatial Clustering of *Aedes aegypti* Related to Breeding Container Characteristics in Coastal Ecuador: Implications for Dengue Control. *American Journal of Tropical Medicine and Hygiene*, 89(4):758-765 (PMC3795109).
24. Cifuentes S., Trostle J., Milbrath M., Trueba G., Baldeon M., Coloma J., **Eisenberg J.N.S.*** (2013) An etiologic transition for fevers: dengue reemergence in rural northwestern Ecuador. *Emerging Infectious Diseases*, 19(10):1642-45 (PMC3810737).
25. Spicknall I.H., Foxman B, Marrs C., **Eisenberg J.N.S.*** (2013) A modeling framework for the evolution and spread of antibiotic resistance: A literature review and model categorization. *American Journal of Epidemiology*, 178(4): 508-520 (PMC3736756).
26. Bitler E.J., Matthews J.E., Dickey B.W., **Eisenberg J.N.S.**, Leon J.S. (2013) A norovirus outbreak systematic review of commonly implicated transmission routes and vehicles. *Epidemiology and Infection*, 141(8): 1563-71 (PMC3742101).
27. Atherton R.D., Bhavnani D., Calvopiña M., Vicuña Y., Cevallos W., **Eisenberg J.N.S.*** (2013) Molecular identification of *Giardia duodenalis* in Ecuador by PCR-Restriction Fragment Length Polymorphism. *Memórias do Instituto Oswaldo Cruz*, 108(4): 512-515 (PMC3970629).
28. Milbrath M.O., Spicknall I.H., Zelnor J.L., Moe C.L., **Eisenberg J.N.S.*** (2013) Heterogeneity in norovirus shedding duration affects community risk. *Epidemiology and Infection*. 141(8): 1572-84.
29. Mayer B.T., **Eisenberg J.N.S.**, Henry C.J., Gomes M.G.M., Ionides E.L., Koopman J.S. (2013) Successes and shortcomings of polio eradication: A transmission modeling analysis. *American Journal of Public Health* 177(11)1236-45 (PMC3664334)

30. Zhao J, Eisenberg J.N.S, Spicknall I.H., Li S., Koopman J.S. (2012) Model Analysis of Fomite Mediated Influenza Transmission. *PLoS ONE* 7(12): e51984. doi:10.1371/journal.pone.0051984
31. Enger K.S; Nelson K.L., Rose J.B., **Eisenberg, J.N.S*** (2012) The joint effects of efficacy and compliance: a study of household water treatment effectiveness. *Water Research*. 47(3): 957-1502.
32. Zelner J., Trostle J., Goldstick J.E., Cevallos W., House J., **Eisenberg J.N.S.*** (2012) Social connectedness and disease transmission: Social organization, cohesion, village context and infection risk in rural Ecuador. *American Journal of Public Health* 102(12):2233-9. (PMCID: PMC3519324)
33. Bhavnani D., Goldstick J.E., Cevallos W., Trueba G., **Eisenberg J.N.S.*** (2012) Synergistic Effects Between Rotavirus and Coinfecting Pathogens on Diarrheal Disease: Evidence from a Community-Based Study in Northwestern Ecuador. *American Journal of Epidemiology*, 176(5):387-95 (PMC3499114).
34. Bhavnani D., Hoggatt K., Goldstick J.E., Cevallos W., Trueba G., **Eisenberg J.N.S.*** (2012) Assessing mechanistic interaction between coinfecting pathogens - Response to Commentary. *American Journal of Epidemiology* 176(5):400-1 (PMC3499115).
35. Escobar J.C., Bhavnani D., Trueba G., Cevallos W., **Eisenberg J.N.S.*** (2012) Risk of diarrhea associated with *Plesiomonas shigelloides* infection in remote communities in northwestern Ecuador. *Emerging Infectious Disease* 18(2):322-4. (PMC3310445).
36. Matthews J.E., Dickey B.W., Miller R.D, Felzer J.R., Dawson B.P., Lee A.S., Rocks J.J, Kiel J., Montes J.S., Moe C.L., **Eisenberg J.N.S.**, Leon J.S. (2012) The epidemiology of published norovirus outbreaks: a systematic review of risk factors associated with attack rate and genogroup. *Epidemiology and Infection*. 140(7): 1161-72 (doi:10.1017/S0950268812000234)
37. Enger K., Nelson K., Clasan T., Rose J.B., **Eisenberg J.N.S.*** (2012) Linking Quantitative Microbial Risk Assessment and Epidemiological Data: Informing Safe Drinking Water Trials in Developing Countries. *Environmental Science and Technology*. doi: 10.1021/es204381e (PMID: 22486606)
38. Remais J.E., **Eisenberg J.N.S.** (2012) Balancing Clinical and Environmental Responses to Infectious Diseases. *The Lancet*. 379(9824):1457-9, (PMC3890320).
39. Markovitz A.R., Goldstick, J.E.; Levy K., Cevallos W. Mukherjee B., Trostle J. **Eisenberg J.N.S.*** (2012) Where science meets policy: Comparing longitudinal and cross-sectional designs to address diarrheal disease burden in the developing world. *International Journal of Epidemiology*; 41(2):504-513, (PMCID: PMC3324455)
40. Levy K., Nelson K., **Eisenberg J.N.S.*** (2012) Rethinking Indicators of Microbial Drinking Water Quality for Health Studies in Tropical Developing Countries: Case Study in Northern Coastal Ecuador. *American Journal of Tropical Medicine and Hygiene*. 86(3): 499–507. (PMCID: PMC3284371)
41. **Eisenberg J.N.S.**, Shield K., Sorrenson R. Trostle J. (2012) Toward a systems approach to enteric pathogen transmission: From individual-level independent risk to community-level interdependent transmission. *Annual Reviews in Public Health*. 33:239–57: doi: 10.1146/annurev-publhealth-031811-124530 (PMCID: PMC3360960)
42. **Eisenberg J.N.S.**, Goldstick J.E., Cevallos W., Trueba G., Levy K., Scott J., Percha B., Segovia R., Ponce K., Hubbard A., Foxman B., Marrs C., Smith D., Trostle J. (2012) In-Roads to the Spread of Antibiotic Resistance: Regional patterns of microbial transmission in northern coastal Ecuador. 9(70) 1029-1039, *Proceedings of the Royal Society: Interface*. (PMCID:PMC3306639)
43. Calvopina M., Cevallos W., Kumazawa H., **Eisenberg J.N.S.*** (2011) High Prevalence of an Emerging Human Liver Infection by *Amphimerus* spp in Ecuador, South America. 17(12): DOI: 10.3201/eid1712.110373 *Emerging Infectious Disease* (PMCID: PMC3311191)
44. Mayer B.T., Koopman J.S., Ionides E.L., Pujol J.M., **Eisenberg J.N.S.*** (2011) A Dynamic Dose-Response Model to Account for Exposure Patterns in Risk Assessment: A Case Study in Inhalation Anthrax. 8(57):506-17. *Proceedings of the Royal Society: Interface*. (PMCID: PMC3061128)

45. Bush K.F., Luber G., Kotha S.R., Dhaliwal R.S., Kapil V., Pascual M., Brown D.G., Frumkin H., Dhiman R.C., Hess J., Wilson M.L., Balakrishnan K., **Eisenberg J.**, Kaur T., Rood R., Batterman S., Joseph A., Gronlund C.J., Agrawal A., Hu H. (2011) Impacts of Climate Change on Public Health in India: Future Research Directions. *Environmental Health Perspectives* 119 (6) 765-770.
46. Spicknall I.H., Koopman J.S., Nicas M., Pujol J.M., Li S., **Eisenberg J.N.S.*** (2010) Informing Optimal Environmental Influenza Interventions: How the Host, Agent, and Environment Alter Dominant Routes of Transmission. 6(10):e1000969. *PLoS Computational Biology* (PMCID: PMC2965740)
47. Zelner J., King, A.A., Moe C.L., **Eisenberg, J.N.S.*** (2010) How Infections Propagate After Point Source Outbreaks: An Analysis of Secondary Norovirus Transmission. 21(5) *Epidemiology*
48. **Eisenberg J.N.S.**, Aiello A.E., Spicknall I.H., Monto A.S. , Reingold A. (2009) Protecting the herd from H1N1 326(5955): 934. *Science Letters*
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