

# NCPERRC

North Carolina Preparedness and  
Emergency Response Research Center

## Bibliography for 2008-2014

(September 30, 2008 - December 29, 2014)

### Presentations (oral presentations and posters)

Williams-Johnson M, Berkelman RL, Potter MA, **Horney J**. Sustainable Public Health Preparedness and Response Systems: The Role of Research. Paper presented at the 2009 Public Health Preparedness Summit. February 18-20, 2009; San Diego, CA.

**Samoff E, Park M, Davis M**, Fleischauer A, **Haas SW, Ising A, MacDonald PDM, Waller A**. How can we make NC DETECT more useful to North Carolina Public Health Agencies? Poster presented at the North Carolina Public Health Association Annual Educational Conference; September 30 - October 1, 2009; Asheville, NC.

Samoff E, Ising A, Waller A. Adding communication to surveillance: Annotation of NC DETECT. Poster presented at the 2009 Public Health Systems & Services Research Keeneland Conference. April 7-9, 2009; Lexington, KY.

Horney J. Factors Associated with Risk of Evacuation Failure from Hurricane Isabel in NC, 2003. Poster presented at the Natural Hazards Center Workshop. July 15-18, 2009; Broomfield, CO.

Salvesen D, Nguyen M. Improving Disaster Preparedness in Disadvantaged and Immigrant Communities. Paper presented at the 2009 National Conference on Community Preparedness. August 9-13, 2009; Arlington, VA.

Gunther-Mohr C, Marti C, Wood BW, Meyer AM, Waller A, Ivy J. Opportunities for translating research into practice: Panel presentation by North Carolina Preparedness & Emergency Response Research Center. Paper presented at the North Carolina Public Health Association Annual Educational Conference; September 30 - October 1, 2009; Asheville, NC.

Wynter S, Worth T, Ivy J. Simulating Public Health Emergency Response: A Case Study of the 2004 North Carolina State Fair *E. Coli* Outbreak. Poster presented at the North Carolina Public Health Association Annual Educational Conference; September 30 - October 1, 2009; Asheville, NC.

Carr S, Yarmand H, Roberts S. Simulation Modeling of Infectious Diseases and Intervention Strategies. Poster presented at the North Carolina Public Health Association Annual Educational Conference; September 30 - October 1, 2009; Asheville, NC.

Placke S, Moomaw L, Carr S, Denton B. Optimal Allocation of CHEMPACKs for Nerve Gas Response in North Carolina. Poster presented at the North Carolina Public Health Association Annual Educational Conference; September 30 - October 1, 2009; Asheville, NC.

Zonta M, Liu C, **Nguyen M**, Sweet E, Vázquez, M. Planning and Community Development in Suburban Immigrant America. Paper presented at the 50<sup>th</sup> Anniversary Annual Conference of the Association of Collegiate Schools of Planning. October 1-4, 2009; Crystal City, VA.

Moomaw L, Denton B. A Stochastic Programming Model for Optimal Scheduling of Prophylactic Dispensing Centers. Paper presented at the Institute for Operations Research and the Management Sciences Annual Meeting; October 11-14, 2009; San Diego, CA.

Yaylali E, Ivy J. Stochastic Alert Threshold Model Development for North Carolina Health Alert Network. Paper presented at the Institute for Operations Research and the Management Sciences Annual Meeting; October 11-14, 2009; San Diego, CA.

Carr S, Roberts S, Uzsoy R. Public Health Emergency Disease Spread and Facility Location Model. Paper presented at the Institute for Operations Research and the Management Sciences Annual Meeting; October 11-14, 2009; San Diego, CA.

Mays G, Davis MV, Wood BW, Marti C, Wayne J, Bellamy J. Variation in Local Public Health Response to the 2009 H1N1 Outbreak: Comparative Analyses from North Carolina. Paper presented at the American Public Health Association 2009 Annual Meeting; November 7-11, 2009; Philadelphia, PA.

Marti C, Mays G, Davis MV, Wood BW, Wayne J, Bellamy J. Modification of the Homeland Security Exercise and Evaluation Framework to Evaluate H1N1 Response in Local Health Departments in North Carolina. Paper presented at the American Public Health Association 2009 Annual Meeting; November 7-11, 2009; Philadelphia, PA.

Davis MV, Mays G, Marti C, Wood BW, Wayne J, Bellamy J. Partnership Payoff: Conducting H1N1 Studies on the Fly. Paper presented at the American Public Health Association 2009 Annual Meeting; November 7-11, 2009; Philadelphia, PA.

**Samoff E, Fleischauer A**, Moore Z, **Park M**, Deyneka L, **Davis M, Haas SW, MacDonald PDM, Waller A**. Use of syndromic surveillance for outbreak detection and management, North Carolina 2008-9. Paper presented at the 2009 Annual International Society for Disease Surveillance 8<sup>th</sup> Annual Conference; December 3-4, 2009; Miami, FL.

Wynter S, Ivy J. Simulating Public Health Emergency Response: A Case Study of the 2004 North Carolina State Fair *E. Coli* Outbreak. Paper presented at the 2009 Winter Simulation Conference; December 13-16, 2009; Austin, TX.

Wayne J, Mays G, Davis MV, Marti C, Wood BW. Variation in Local Public Health Response to the H1N1 Outbreak: A Comparative Analysis in North Carolina. Paper presented at the 2010 Public Health Preparedness Summit; February 16-19, 2010; Atlanta, GA.

**Hegle J, Benson P, Rosselli R, Meyer AM, Markiewicz M, Henderson K, Salyers M, MacDonald PDM.** Regionalizing all-hazards exercises: Lessons learned from the NC Public Health Regional Surveillance Teams (PHRSTs). Paper presented at the 2010 Public Health Preparedness Summit. February 16-19, 2010; Atlanta, GA.

Horney J, Meyer AM, MacDonald PDM. Organizational capacity of regional public health surveillance teams in North Carolina. Poster presented at the 2010 Public Health Preparedness Summit. February 16-19, 2010; Atlanta, GA.

Markiewicz M, Horney J, Meyer AM, MacDonald PDM. Services and support provided by Public Health Regional Surveillance Teams (PHRSTs) to Local Health Departments in NC. Poster presented at the 2010 Public Health Preparedness Summit. February 16-19, 2010; Atlanta, GA.

**Samoff E, Park M, Fleischauer A, Ising A, Davis M, Haas SW, MacDonald PDM, Waller A.** Use of syndromic surveillance for H1N1 influenza management, North Carolina 2009. Poster presented at the 2010 Public Health Preparedness Summit. February 16-19, 2010; Atlanta, GA.

Uzsoy R, Worth T. A Simulation Model of Public Health Response to Pertussis Events. Poster presented at the 2010 Public Health Preparedness Summit. February 16-19, 2010; Atlanta, GA.

Mays G, Davis MV, Wayne J, Marti C, Wood BW. Variation in Local Public Health Response to the H1N1 Outbreak: A Comparative Analysis in North Carolina. Paper presented at the 2010 National Disaster Management Summit; March 3, 2010; Washington, DC.

Yarmand H, Ivy J, Roberts S. A Simulation-Based Analysis of Different Mitigation Strategies for H1N1. Poster presented at the 2010 Conference on Health and Humanitarian Logistics. March 4-5, 2010; Atlanta, GA.

Carr S, Roberts S. An Integrated Disease Spread and Facility Location Simulation. Poster presented at the 2010 Conference on Health and Humanitarian Logistics. March 4-5, 2010; Atlanta, GA.

Yaylali E, Ivy J. Stochastic Alert Threshold Development for NC HAN. Poster presented at the 2010 Conference on Health and Humanitarian Logistics. March 4-5, 2010; Atlanta, GA.

**Worth T, Johnson J, Uzsoy R, Taheri J, Maillard JM, Samoff E, Meyer AM.** A Simulation Model of Public Health Response to Pertussis Events. Paper presented at the 2010 Conference on Health and Humanitarian Logistics. March 4-5, 2010; Atlanta, GA.

Mays G, Marti C, Wayne J, Davis MV. Accreditation and Local Variation in H1N1 Response in North Carolina. Paper presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Wayne J, Mays G, Marti C, Bellamy J, Davis MV, Wood BW. Accreditation and Public Health Preparedness in North Carolina: Conclusions from the 2005 – 2008 NACCHO Surveys. Paper presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Marti C, Mays G, Wayne J, Bellamy J, Davis MV, Wood BW. Evaluation of Local Public Health System Response to H1N1 in North Carolina via Modification of the Homeland Security Exercise and Evaluation Framework. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

**Samoff E, Davis M**, Fleischauer A, **Park M, Haas SW, MacDonald PDM, Waller A**. Increasing surveillance effectiveness to support the public health system. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

MacDonald PDM, Horney J, Meyer AM, Markiewicz M. Support and Services Provided by Public Health Regional Surveillance Teams to Local Health Departments in North Carolina. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Meyer AM, Mays G, Horney J, Davis M, MacDonald PDM. Research in Search of a Theory: Developing Frameworks that Work for PHSSR. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

**Worth T, Johnson J, Uzsoy R, Taheri J**, Maillard JM, **Samoff E**, Wendelboe A. A Simulation Model of Public Health Response to Pertussis Events. Presentation delivered at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Carr S, Roberts S, Uzsoy R. Vaccine/Antiviral Distribution Planning During an Outbreak; Presentation delivered at the 2010 Public Health Systems and Services Research Keeneland Conference, April 20-22, 2010; Lexington KY.

Yarmand H, Ivy J, Roberts S. Cost-effectiveness analysis of vaccination and self-isolation in case of H1N1. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Yaylali E, Ivy J, Roberts S. Stochastic Alert Threshold Development for the North Carolina Health Alert Network. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Carr S. Pandemic Disease Spread and Facility Location Simulation. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Carr S, Yarmand H, Roberts S. Simulation Modeling of Infectious Diseases and Intervention Strategies. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Nogueira M, Greis N. A Systems Approach to North Carolina Public Health Preparedness: New Information Delivery Models. Poster presented at the 2010 Public Health Systems & Services Research Keeneland Conference. April 20-22, 2010; Lexington, KY.

Carr S, Roberts S, Uzsoy R. Pandemic Disease Spread and Facility Location. Poster presented at the Healthcare Systems Engineering Research and Education Leadership Workshop; May 2010; Fayetteville, AR.

Horney J. Overview of NCPERRC Research Activities. Paper presented at UCLA Conference on Public Health and Disasters; May 16-19, 2010; Los Angeles, CA.

Yaylali E, Ivy J. Modeling for Public Health Emergency Preparedness and Response. Paper presented at Center for Discrete Mathematics & Theoretical Computer Science/The Homeland Security Center for Command, Control, and Interoperability for Advanced Data Analysis Workshop on Modeling and Mitigation of the Impacts of Extreme Weather Events to Human Health Risks; June 3-4, 2010; Piscataway, NJ.

Yarmand H, Ivy J, Roberts S. A Simulation-Based Analysis of Different Control Policies for H1N1. Paper presented at Institute of Industrial Engineers Annual Conference & Expo; June 5-9, 2010; Cancún, Mexico.

Klaiman T, Dearing A, **Marti C, Mays G**. What did the 2009 H1N1 outbreak tell us about the public health emergency response system? A public health systems and services research perspective. Paper presented at AcademyHealth Annual Research Meeting. June 27-29, 2010; Boston, MA.

Mays G, Davis MV, Marti C, Wood BW, Wayne J, Bellamy J. Local Variation in the Public Health Response to H1N1: A Role for Accreditation? Paper presented at AcademyHealth Annual Research Meeting; June 27-29, 2010; Boston, MA.

Mays G, Davis M, Marti C. Policies, programs, and strategies to improve LHD response to infectious disease outbreaks: Variation in local public health response to the 2009 H1N1 Outbreak in North Carolina. Paper presented at National Association of County and City Health Officials Annual Conference; July 14-16, 2010; Memphis, TN.

Ivy J, Yaylali E. When to Respond: A Multi-Agent Stochastic Alert Threshold Model for Declaring a Disease Outbreak. Invited Seminar at the Georgia Institute of Technology, Industrial and Systems Engineering Department; October 6, 2010; Atlanta, GA.

Gunther-Mohr C, Bevc C, Baker E, MacDonald PDM, Horney JA. Update from the NC Preparedness & Emergency Response Research Center (NCPERRC). Poster presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

Bellamy J, Davis MV, Marti C, Mays G, Wayne J, Wood BW. Local Health Department Preparedness Capacity Survey (P-Cap) – Results from NC. Poster presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

**Samoff E, Soeters H, Park M, DiBiase L, Ising A, Davis MK, Fleischauer A, Waller A, Haas SW, MacDonald PDM**. The current and future management of surveillance data – how do we keep up? Poster presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

**Markiewicz M, George A, Hegle J, Bevc C, Deyneka L, MacDonald PDM**. North Carolina's Hospital-based Public Health Epidemiologist (PHE) Program. Poster presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

Yarmand H. Cost-effectiveness analysis of vaccination and self-isolation in case of H1N1. Paper presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

Ivy J. Analysis of the North Carolina Health Alert Network. Paper presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

Yaylali E, Ivy J. Optimization of Alerting Decisions for Local and State Health Departments in case of H1N1. Poster presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

Aghdashi S, Ivy J, Mazur L. Value Stream Mapping of E.Coli Outbreak Case in North Carolina, November 2004. Poster presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

**Worth T, Johnson J, Uzsoy R, Maillard JM, Samoff E, Meyer AM.** Modeling the Effect of Public Health Resources on the Dynamic of Pertussis Outbreaks. Paper presented at the North Carolina Public Health Association Annual Educational Conference; October 27-29, 2010; Wilmington, NC.

Markiewicz M, Sage J, Hogle J, Horney JA, George A, MacDonald PDM. Organizational Capacity of Public Health Regional Surveillance Teams (PHRSTs) in North Carolina. Paper presented at the American Public Health Association 2010 Annual Meeting; November 6-10, 2010; Denver, CO.

Marti C. Real-time data collection tool to reduce recall bias and improve utility of lessons-learned during real public health events. Paper presented at the American Public Health Association 2010 Annual Meeting; November 6-10, 2010; Denver, CO.

Bellamy J, Mays G, Wayne J. The Development of a Local Public Health Preparedness Survey: Results of the Pilot Study. Paper presented at the American Public Health Association 2010 Annual Meeting; November 6-10, 2010; Denver, CO.

Yaylali E, Ivy J. Optimizing alerting decisions for local and state health department in case of pandemic influenza. Paper presented at the Institute for Operations Research and the Management Sciences (INFORMS) 2010 Annual Meeting; November 7-10, 2010; Austin, TX.

Yarmand H, Ivy J, Roberts S. Cost-Effectiveness Analysis of Vaccination and Self-isolation in Case of an H1N1 Outbreak. Paper presented at the INFORMS Annual Meeting Conference; November 7-10, 2010; Austin, TX.

**Worth T, Johnson J, Uzsoy R, Taheri J, Maillard JM, Samoff E, Wendelboe A.** A Simulation Model of Local Public Health Response to Pertussis Events. Paper presented at the 2010 INFORMS Annual Meeting; November 7-10, 2010; Austin, TX.

**Worth T, Meyer AM, Uzsoy R, Maillard JM, Samoff E, Wendelboe A.** Modeling The Response Of A Public Health Department To Infectious Disease. Paper presented at the 2010 Winter Simulation Conference; December 5-8, 2010; Baltimore, MD.

Carr S, Roberts S. Planning for Infectious Disease Outbreaks: A Geographic Disease Spread, Clinic Location, and Resource Allocation Simulation. Paper presented at the 2010 Winter Simulation Conference; December 5-8, 2010; Baltimore, MD.

**Yarmand H, Ivy J, Roberts S**, Bengtson M, Bengtson N. Cost-effectiveness Analysis of Vaccination and Self-Isolation in Case of H1N1. Paper presented at the 2010 Winter Simulation Conference; December 5-8, 2010; Baltimore, MD.

**Samoff E, Waller A**, Fleischauer A, Sickbert-Bennett E, **Ising A, Davis MK, Park M, Haas SW, DiBiase L, MacDonald PDM**. Access to and use of syndromic surveillance data at the local health department level. Poster presented at the International Society of Disease Surveillance Annual Conference; December 1-2, 2010; Park City, UT.

**Mays G**, Stebbins S, Hedberg C, Stoto M. Assessing Public Health System Preparedness to Strengthen Capacity, Adaptation, Response, and Resilience – Geographic Variation in Public Health Preparedness: Identifying Causes and Solutions Using PCAS. Interactive session presented at the 2011 Public Health Preparedness Summit; February 22-25, 2011; Atlanta, GA.

Omer S, Kinlaw K, Sweeney P, **Ivy J**. Utilizing research to inform Public Health Practice and Emergency Preparedness and Response: Managing scarce resources, and modeling response to the “What ifs” and Unknowns of public health emergencies. Interactive session presented at the 2011 Public Health Preparedness Summit; February 22-25, 2011; Atlanta, GA.

**Samoff E, Ising A, Waller A**, Sickbert-Bennett E, **Davis MK**, Park M, Fleischauer A, **Haas S, DiBiase L, MacDonald PDM**. Improving use of biosurveillance data at local health departments in North Carolina. Poster session presented at the 2011 Public Health Preparedness Summit; February 22-25, 2011; Atlanta, GA.

**Bevc C, Markiewicz ML, Samoff E, Hegle J**, Deyneka L, **MacDonald PDM**. Network Analysis of North Carolina’s Public Health Surveillance System. Oral presentation at Annual Meeting of International Network for Social Network Analysis; February 8-13, 2011; St. Pete Beach, FL.

Yarmand H, Ivy J. Analytic Solution to the Susceptible-Infective Disease Spread Model with Varying Contact Rate. Oral presentation at the 2011 Health and Humanitarian Logistics Conference; March 3-4, 2011; Atlanta, GA.

Bevc, C. Community-Based Vulnerabilities Associated with Local Nuclear Hazard Risk. Oral presentation at the Midwest Sociological Society’s annual meeting; March 25-27, 2011; St. Louis, MO.

Bellamy J, Mays G, Davis MV, Wayne J, Marti C, Wood BW. The Local Health Department Preparedness Capacity Survey (P-CAS) Results: Comparing North Carolina with a Matched National Sample. Oral presentation at the Keeneland Conference; April 12-14, 2011; Lexington, KY.

Bellamy J. The Uptake of Emergency Preparedness Training at the Local Level: The TRAIN Experience. Oral presentation at the Keeneland Conference; April 12-14, 2011; Lexington, KY.

Carr S, Gultekin M, Roberts S, Uzsoy R. Geography in Healthcare Planning. Oral presentation at the Industrial Engineering Research Conference; May 24, 2011; Reno, NV.

**Markiewicz ML, Bevc CA, Hegle J, Horney JA, Deyneka L, MacDonald PDM.** Enhancing Epidemiology Capacity for Communicable Disease Management: North Carolina's Hospital-Based Public Health Epidemiologist Program. Oral presentation at Council of State and Territorial Epidemiologists Annual Meeting; June 12-16, 2011; Pittsburgh, PA.

**Samoff E, Fleischauer AT, DiBiase L, Davis MK, Waller A, MacDonald PDM.** Local health department electronic reportable disease surveillance practice and costs, North Carolina, 2009. Oral presentation at Council of State and Territorial Epidemiologists Annual Meeting; June 12-16, 2011; Pittsburgh, PA.

**Bevc CA, Markiewicz ML, Hegle J, Horney JA, Deyneka L, MacDonald PDM.** Application of Social Network Analysis to a Public Health Preparedness-Funded Workforce Program. Oral presentation at Public Health Systems Research Interest Group. Academy Health Annual Research Meeting; June 14-15, 2011; Seattle, WA.

Bevc CA, Christopherson L, Haas SW. Understanding and Comparing Patterns of Communication in H1N1: Applying Social Network Analysis. Poster presentation at the Academy Health Annual Research Meeting; June 14-15, 2011; Seattle, WA.

Mays GP, Davis MV, Marti C, Wood BW, Wayne J, Bellamy J. Explaining Geographic Variation in Public Health Preparedness: Returns to Scale and Experience. Oral presentation at the Academy Health Annual Research Meeting; June 14-15, 2011; Seattle, WA.

**Uzsoy R, Maillard J-M, Meyer AM, Samoff E, Wendelboe A, Worth T, Yaylali E.** Modeling the Response of a Public Health Department to Infectious Disease. Oral presentation at the INFORMS Healthcare 2011 Conference; June 20-22, 2011; Montreal, Canada.

Yaylali E, Ivy J. A Two-Agent Stochastic Alert Threshold Model For Identifying A Potential Disease Outbreak. Oral presentation at the INFORMS Healthcare 2011 Conference; June 20-22, 2011; Montreal, Canada.

**Bevc C, Horney J, Markiewicz M, Hegle J, Casani J, MacDonald PDM.** Regionalization of Public Health Preparedness: Organizational and Preparedness Capacities. Poster presentation at the Annual Hazards and Research Applications Workshop; July 9-12, 2011; Broomfield, CO.

**Horney JA, Turner L.** Translating Evidence into Action: Enhancing the Impact of Public Health Emergency Preparedness-Funded Workforce Infrastructure in North Carolina. Oral presentation at the Association of State and Territorial Health Officers Directors of Public Health Preparedness Annual Meeting; September 20, 2011; St Louis, MO.

Bevc C. Integrating Vulnerable and At-Risk Populations into Closed POD Exercise Planning. Oral presentation at the North Carolina Public Health Association Annual Educational Conference; September 21-23, 2011; Charlotte, NC.

Bevc C, Davis MV. Using A Survey To Improve Preparedness Practice: The NCPERRC P-CAS Study. Oral presentation at the North Carolina Public Health Association Annual Educational Conference; September 21-23, 2011; Charlotte, NC.



**Samoff E, DiBiase L, Fangman MT, Fleischauer A, Davis MK, Waller A, MacDonald PDM.** Local health department electronic reportable disease surveillance practice and costs, North Carolina, 2010. Oral presentation at the North Carolina Public Health Association Annual Educational Conference; September 21-23, 2011; Charlotte, NC.

Taheri J, Gates HK, Ivy J. Utilizing systems engineering models to enhance collaboration and vaccination clinic efficiency in the Southern Piedmont. Oral presentation at the North Carolina Public Health Association Annual Educational Conference; September 21-23, 2011; Charlotte, NC.

Bellamy J, Wayne J, Mays G. Uptake of Emergency Preparedness Training at the Local Level: The TRAIN Experience. Poster presented at the 2011 American Public Health Association Annual Meeting; October 29 – November 2, 2011; Washington, DC.

**Horney JA, Markiewicz M, Patil N, Casani J, Levine M, MacDonald PDM.** Services provided by regional preparedness and response teams in North Carolina and Virginia. Poster presented at the 2011 American Public Health Association Annual Meeting; October 29 – November 2, 2011; Washington, DC.

Wayne J, Mays G, Davis MV, Marti C, Bellamy J, Wood BW. Does Local Public Health Department Accreditation in North Carolina have a Positive Impact on Emergency Preparedness: Conclusions from the NACCHO National Profiles. Poster presented at the 2011 American Public Health Association Annual Meeting; October 29 – November 2, 2011; Washington, DC.

Yarmand H, Ivy J. Analytic Solution to the Susceptible-Infective Disease Spread Model with Varying Contact Rate. Oral presentation at the 2011 INFORMS Annual Meeting Conference; November 13-16, 2011; Charlotte, NC.

Yarmand H, Ivy J. Cost-Effectiveness Analysis of Different Interventions in Simple Stochastic Epidemic in a Household Presenting. Oral presentation at the 2011 INFORMS Annual Meeting Conference; November 13-16, 2011; Charlotte, NC.

Yaylali E, Ivy J. A Multi-agent Model for Optimizing Alerting Decisions in the Case of a Disease Outbreak. Oral presentation at the 2011 INFORMS Annual Meeting Conference; November 13-16, 2011; Charlotte, NC.

Yaylali E, Ivy J, Samoff E, Uzsoy R. Modeling the Effect of Public Health Resources and Alerting on the Dynamics of Pertussis Spread. Oral presentation at the 2011 INFORMS Annual Meeting Conference; November 13-16, 2011; Charlotte, NC.

Ivy J, Yaylali E. When to Respond: A Multi-Agent Stochastic Alert Threshold Model for Declaring a Disease Outbreak. Invited Seminar at the University of Pittsburgh Department of Industrial Engineering; December 8, 2011; Pittsburgh, PA.

Ivy J. Enhancing the Value Stream in Public Health Preparedness through Modeling: A Systems Engineering Approach. Oral presentation at the Public Health Preparedness Summit; February 21 – 24, 2012; Anaheim, CA.

Samoff E, Waller A, MacDonald PDM. Implementation of electronic surveillance systems expands local health department surveillance capacity. Poster presented at the Public Health Preparedness Summit; February 21 – 24, 2012; Anaheim, CA.

Bevc C, Horney JA, MacDonald PDM. Integrating Vulnerable and At-Risk Populations into Public Health Preparedness Planning. Oral presentation at the Public Health Preparedness Summit; February 21 – 24, 2012; Anaheim, CA.

Davis MV, Bevc C, Mays G. P-CAS: A Preliminary Metric and Baseline for Preparedness Capacity and Capabilities. Oral presentation at the Public Health Preparedness Summit; February 21 – 24, 2012; Anaheim, CA.

**Horney JA, MacDonald PDM**, Casani J. Translating Evidence into Action: Improving the Effectiveness of Regional Public Health Workforce Assets. Oral presentation at the Public Health Preparedness Summit; February 21 – 24, 2012; Anaheim, CA.

Davis MV, Bevc CA, Mays GP. Sustaining Preparedness: Two-Year Comparison of Results from the Local Health Department Preparedness Capacity (P-CAS) Survey. Oral presentation at 2012 Public Health Systems & Services Research Keeneland Conference; April 17-19, 2012; Lexington, KY.

Baker E, MacDonald PDM, Davis MV, Mays GP, Gunther-Mohr C. Translation of research into policy and practice: Lessons learned from the North Carolina Preparedness and Emergency Response Research Center. Oral presentation at 2012 Public Health Systems & Services Research Keeneland Conference; April 17-19, 2012; Lexington, KY.

Yaylali E, Ivy J, Uzsoy R. Modeling Infectious Disease and The Effect of Early Detection. Oral presentation at Institute of Industrial Engineers Annual Conference; May 18 - 22, 2012; Orlando, FL.

Yarmand H, Ivy J. Cost-Effectiveness Analysis of Different Intervention Strategies for Stochastic Susceptible-Infective Model: A Household View. Oral presentation at Institute of Industrial Engineers Annual Conference; May 18 - 22, 2012; Orlando, FL.

Davis MV, Gunther-Mohr C. Participatory Research Partnerships: Addressing Relevant Public Health System Challenges. Oral presentation at National Network of Public Health Institutes Annual Conference; May 21-23, 2012; New Orleans, LA.

**Samoff E, Fangman MT**, Fleischauer A, **Waller A, MacDonald PDM**. ELR decreases the time required to process cases at state and local public health agencies in North Carolina, 2010. Oral presentation at the Council of State and Territorial Epidemiologists Annual Meeting; June 3-7, 2012; Omaha, NB.

Davis MV, Bevc CA, Mays GP. Trends in State-Based Accreditation and Preparedness Capacities. Oral presentation at AcademyHealth Public Health Systems Research Interest Group; June 24-26, 2012; Orlando, FL.

Bevc C, Horney J. Not just Zombies – Increasing Public Health Preparedness and Response. Discussion session at the Annual Hazards Research and Applications Workshop; July 14-17, 2012; Broomfield, CO.

**Bevc C, Simon M, Markiewicz M, Horney JA, Casani J.** Public Health Preparedness Planning for Vulnerable and At-Risk Populations: Preliminary Results from the Vulnerable and At-Risk Populations Resource Guide. Poster presented at Natural Hazards Center Annual Workshop; July 14-17, 2012; Broomfield, CO.

Bevc C, Markiewicz ML, Samoff E, Horney J, MacDonald PDM. Network-Based Assessment of Brokerage Roles within a Hospital-Based Public Health Epidemiologist Program. Oral presentation at 2012 Annual Meeting of the American Sociological Association; August 17-20, 2012; Denver, CO.

Yaylali E, Ivy J, Uzsoy R. Optimizing Contact Tracing for a Pertussis Outbreak in a Local Health Department. Presentation at INFORMS Annual Conference, October 14-17, 2012; Phoenix, AZ.

Yaylali E, Ivy J. DMA-POMDP: A Multi-agent Framework for Decentralized Control and Its Application to Outbreak Response. Presentation at INFORMS Annual Conference, October 14-17, 2012; Phoenix, AZ.

Bevc CA, Simon MC, Montoya T, Horney JA. Public Health Preparedness Planning for Vulnerable and At-Risk Populations: Preliminary Results from the Vulnerable and At-Risk Populations Resource Guide. Poster presented at the 2013 Public Health Preparedness Summit; March 12-15, 2013; Atlanta, GA.

Davis MV, Bevc CA, Singleton C, Carlson V, Koester D, Corso L. Applying Network-based Measures to Generate Cross-Comparisons of Preparedness. Sharing session presented at 2013 Public Health Preparedness Summit; March 12-15, 2013; Atlanta, GA.

Ivy J, Yaylali E. DMA-POMDP: A Multi-agent Framework for Decentralized Control and Its Application to Outbreak Response. Presentation at the Department of Industrial Engineering, University of Arkansas, April 2013.

Davis MV, Bevc CA, Singleton C. Progress and Opportunities towards Improving Preparedness Measurement. Presentation at the CDC OPHPR Seminar Series. April 3, 2013. Atlanta, GA.

Bevc CA, Davis MV, Schenck A. Creating a Preparedness Index, Easier Said than Done. Presentation delivered at 2013 Public Health Systems and Services Research Keeneland Conference, April 8-11, 2013; Lexington, KY.

Yarmand H, Ivy J. Analytic Solution to the Susceptible-Infective Disease Spread Model with State-Dependent Contact Rate. Presentation at SIMULATION, June 2013; 89(6):703-721.

Bevc CA, Horney JA. Mapping Social Vulnerabilities for Public Health Preparedness and Emergency Management. Presentation at the Centers for Disease Control and Prevention Social Vulnerability Workshop, Atlanta, GA, July 11, 2013.

Bevc CA, Simon MS, Montoya T, Horney JA. Institutional Facilitators and Barriers to Local Public Health Preparedness Planning for Vulnerable and At-Risk Populations. Poster presented at Annual Hazards Research and Applications Workshop; July 13-16, 2013; Broomfield, CO.

Bevc CA, Simon MS, Montoya T, Horney JA. Institutional Impediments: An Evaluation of Local Planning Practices for Vulnerable and At-Risk Populations. Presentation at Annual Researchers Meeting of the International Research Committee on Disasters (RC-39); July 16-17, 2013; Broomfield, CO.

Donovan K, Markiewicz M, Horney JA. Services Provided by Public Health Regional Offices. Poster presented at the American Public Health Association Annual Meeting; Nov 3-7, 2013; Boston, MA.

Vielot N, Baker EL, Smith P, Southwell J. Improving Public Health Preparedness: Strengthening Biosurveillance Systems for Enhanced Situational Awareness. Poster presented at the 2013 International Society for Disease Surveillance Conference, December 12, 2013, New Orleans, LA.

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*This research was carried out by the North Carolina Preparedness and Emergency Response Research Center (NCPERRC) which is part of the North Carolina Institute of Public Health at the University of North Carolina at Chapel Hill's Gillings School of Global Public Health and was supported by the Centers for Disease Control and Prevention (CDC) Grant 1P01 TP 000296. The contents are solely the responsibility of the authors and do not necessarily represent the official views of CDC.*