



***Economic Measures of Interventions:
Building a Framework for Prioritizing Opportunities to Reduce Risk***

***December 2-3, 2004
University of Massachusetts Amherst***

Workshop Goal: Develop an integrative modeling system approach for evaluating the effectiveness of interventions intended to improve public health by reducing foodborne safety risks. To contribute to successful risk management and prioritization of possible interventions, this approach must incorporate the technical effectiveness of interventions in reducing risk, the resulting benefits from improvements in public health, and the costs of intervention.

Targeted Workshop Outcomes:

- Build on risk ranking, predictive modeling, and food attribution efforts of the Food Safety Research Consortium for analyzing the technical effectiveness of interventions and potential public health benefits.
- Explore alternative approaches to measuring the impacts of interventions, with a core emphasis on models for evaluating economic incentives and behaviors, and the cost effectiveness and net benefits of interventions.
- Outline the advantages and disadvantages of alternative approaches to measuring the impact of interventions.
- Develop a set of “best practices” for further work including guidance of data requirements, variables of interest, and reporting practices.

Before You Arrived: You received a set of key background papers.

While You Are in Amherst: You have received a briefing book with more materials, including papers and Power Point Presentations prepared for the conference. You will participate in a lively workshop with about 25 other researchers and practitioners active in risk management analysis.

After You Leave Amherst: Finalized commissioned papers, a consensus report, and issue briefs will be available from the workshop. Another workshop will be held in Georgia in April and a summary conference will be held in the summer of 2005 in Washington, D.C.

Workshop Program

Thursday, December 2

Room 101 (1st Floor), Campus Center

- 7:30-8:30 Continental Breakfast (Available in Room 101)
- 8:30-9:00 Introduction and Overview
Michael Taylor, Resources for the Future and Helen Jensen, Iowa State University
The Food Safety Research Consortium
The Foodborne Illness Risk Ranking Model (FIRRM)
Food Attribution Work
The National Integrated Food Safety Initiative Grant (CSREES)
Predictive Modeling Workshop
This Workshop
Future Workshops
- 9:00-9:15 Round of introductions
- 9:15-9:30 Charge to the Workshop: What Are We Building Toward?
Julie Caswell, University of Massachusetts
- 9:30-10:15 Approaches to Integrative Modeling for Food Safety Interventions
Chair: Helen Jensen, Iowa State University
Presentation by Paul McNamara and Gay Miller, University of Illinois
A Farm-to-Fork Stochastic Simulation Model of Pork-borne Salmonellosis in Humans: Lessons for Risk Ranking
- 10:15-10:30 Break
- 10:30-11:15 Approaches (Continued)
Chair: Helen Jensen, Iowa State University
Presentation by Marie-Josée Mangen, G.A. Wit, and H. H. Havelaar, CARMA: Campylobacter Risk Management and Assessment, Netherlands
Economic Analysis of Campylobacter Control in the Dutch Chicken Meat Market

- 11:15-12:00 Approaches (Continued)
 Chair: Helen Jensen, Iowa State University
 Presentation by Michael Ollinger, Economic Research Service, USDA
 and Danna Moore, Washington State University
*Approaches to Examining HACCP Costs and Food Safety
 Performance and Technologies*
- 12:00-1:30 Lunch (Room 1001-1002 (10th Floor), Campus Center)
- 1:30-2:15 Approaches (Continued)
 Chair: Sandra Hoffmann, Resources for the Future
 Presentation by Scott Malcolm, University of Delaware
Operations Research and Firm Level Food Safety
- 2:15-3:00 Approaches (Continued)
 Chair: Sandra Hoffmann, Resources for the Future
 Presentation by H. Scott Hurd, Iowa State University
*Risk-Based Optimization of the Danish Pork Salmonella
 Program*
- 3:00-3:15 Break
- 3:15-4:45 How Good is the Match Between These Approaches and How Risk Management
 Decisions Are/Should be Made? Viewpoints.
 Chair: Michael Taylor, Resources for the Future
 Derrick Jones, Food Standards Agency, United Kingdom
 Caroline Smith DeWaal, Center for Science in the Public Interest
- 4:45-5:15 Discussion: What Have We Learned So Far?
 Chair: Julie Caswell, University of Massachusetts
- 6:30 Dinner at the University Club (listed as “Faculty Club” and highlighted in yellow
 on your map)

Friday, December 3

Room 101 (1st Floor), Campus Center

- 7:30-8:30 Continental Breakfast (Available in Room 101)
- 8:30-10:30 Relevant Studies Modeling Effects, Benefits, and Costs
Chair: Michael Doyle, University of Georgia
Fred Angulo, Centers for Disease Control and Prevention
Current Work on Food Attribution
Neal Hooker, Ohio State University
Recent Economic Analyses of Food Safety: Evaluating Risk Management Efforts
William Nganje, North Dakota State University
HACCP Implementation and Economic Optimality in Turkey Processing
Julie Caswell and Seda Erdem, University of Massachusetts
A Prototype Decision Tool: Effectiveness and Costs of Interventions Ranking Model (ECIRM)
- 10:30-10:45 Break
- 10:45-12:00 Wrap-Up Discussion: Defining Best Practices
Chair: Julie Caswell, University of Massachusetts
What are the criteria for studies that will add up in a synergistic way in the future?
What are the data needs?
Can we define reporting practices for research that will maximize usefulness?
- 12:00-1:00 Box Lunch—Grab and Go OR Sit and Talk
(Room 1001-1002 (10th Floor), Campus Center)