

Health Technology and Public Policy:

Issues and Innovations Shaping the Future

The RTI Fellows Symposium

December 2-3, 2004

Radisson Governors Inn
150 Park Drive
Research Triangle Park, North Carolina

Health Technology and Public Policy: Issues and Innovations Shaping the Future

Thursday, December 2, 2004

7:30 am Continental Breakfast (Outside Room ABC)

8:30 am Opening Plenary: Introductions and Welcome (Room ABC)

Jerry Cromwell, RTI: Conference Co-Chair

Victoria Franchetti Haynes, President and CEO, RTI International

8:40 am Plenary Session 1: Identifying and Promoting Truly Cost-Effective Technology Innovation

Frank Lichtenberg, Courtney C. Brown Professor of Business, Columbia University School of Business: *Measuring the Aggregate Impact of Medical Innovation on Health*

Annetine Gelijns, Director, International Center for Health Outcomes and Innovation Research (InCHOIR), Department of Surgery and Columbia University Medical Center: *Evidence Meets Politics in the Management of Technological Change*

10:00 am Break

10:30 am First Concurrent Sessions

Biology and Behavior (Room ABC)

Judy Lessler, RTI: Moderator

Jenae Neiderhiser, George Washington University, Washington, DC: *How Genes Influence Family Relationships and Mental Health: Implications for Prevention and Intervention*

Diana Fishbein, RTI: *Cognitive and Emotional Regulatory Functions Predict Correctional Treatment Response in Inmates*

Diana Eldreth, RTI: *Underlying Neural and Genetic Mechanisms in Differential Drug Abuse Treatment Response*

New Methodology for Health Measurement (Room DE)

Paul Biemer, RTI: Moderator

David Wilson, RTI: *MASSC-ing Microdata: A Method for Disclosure Avoidance*

Jerry Reiter, Duke University: *Disclosure Limitation via Multiply-Imputed, Synthetic Microdata*

A. Jaime Cuticchia, RTI: *GenePoint – Informatics for Human Genomic Data*

Technology-assisted Learning for Health Care (Room FG)

Paul Kizakevich, RTI: Moderator

Mark Bowyer, National Capital Area Medical Simulation Center: *Advanced Initiatives in Medical Simulation (AIMS) – Creating a National Agenda for Medical Simulation*

Robert Hubal, RTI: *Training Pediatric Examination Interaction Skills*

Paul Kizakevich, RTI: *Triage Simulation for Disaster Readiness Training*

12:00 pm Lunch (Room H)

Peter Littlejohns, Clinical Director, NICE (National Institute of Clinical Excellence), United Kingdom: *Health and Technology Assessment: An International Perspective*

1:30 pm Second Concurrent Sessions

Improving Health through Chemical Biology (Room ABC)

Edo Pellizzari and David Kroll, RTI: Moderators

Mary Jeanne Kreek, Rockefeller University: *Neurobiological Basis and Treatment of Addictions: Impact of Recent Human Molecular Genetic Studies*

Patrick Casey, Duke University: *The Marriage of Traditional Chemistry with Genomic Approaches for Drug Discovery*

Jim Stephenson, RTI: *Proteomic Approaches for Drug Discovery*

Health Status and Quality of Life Measurement Techniques (Room DE)

Kathleen N. Lohr, RTI: Moderator

Carla Bann and Valerie Williams, RTI: *Creation of Instrument Short Forms: Methods and Applications*

Sheri Fehnel, RTI: *Development and Psychometric Evaluation of a Bipolar-Specific Functional Status Measure: A Case Study in Patient-Reported Questionnaire Development*

Bryce Reeve, National Institutes of Health: *The NIH Roadmap and Dynamic Assessment of Quality of Life*

Cost Effectiveness of Health Technologies (Room FG)

Jerry Cromwell, RTI: Moderator

Sujha Subramanian, RTI: *Assessing Effectiveness of New Technology in Everyday Clinical Practice: Methodological Challenges and Potential Solutions*

Tom Hoerger, RTI: *Estimating the Potential Cost-Effectiveness of a "Polypill" for Patients with Type 2 Diabetes*

Jerry Cromwell, RTI: *Managed Care Barriers to the Diffusion of Cost Effective Technologies: How High Are They?*

3:00 pm Break

3:30 pm Third Concurrent Sessions

Aerosol Technology and Health (Room ABC)

David Ensor, RTI: Moderator

Nathan Rabinovitch, National Jewish Medical and Research Center: *Integration of Aerosol Exposure Technologies with Alterations of Asthma Severity and Potential Mitigation Steps*

Charles Rodes and Karin Foarde, RTI: *Quantification of Asthmatic Children Exposure to Aerosol Endotoxins*

Michael Riebe, RTI: *The Growing Opportunities for Aerosol Delivery of Medicines*

Information Technology in the Developing World (Room DE)

Derick Brinkerhoff, RTI: Moderator

Myles Elledge, RTI: *Back to the Future: Environmental Technologies to Improve Child Health in Developing Countries*

Gordon Cressman, RTI: *Zambia Electronic Perinatal Record System: An Archetype of Computer-based Health Information Systems in Developing Countries*

Quantifying Perceived Benefits of Improved Health Care (Room FG)

Brett Hauber, RTI: Moderator

Ranjani Manjunath and Semra Ozdemir, RTI: *Stated Preference Methods for Measuring Patient and Physician Treatment Preferences*

Brett Hauber, RTI: *Comparing Apples to Oranges: Quality-Adjusted Life Years, Healthy-Years Equivalents, Willingness to Pay, and Willingness to Wait*

Joe Cook, UNC-Chapel Hill: *A Comparison of Families' Willingness to Pay for Vaccines in Developing Countries*

5:00 pm Posters and Reception (Room H)

- Jeremy Bray**, Katherine Harris, Gary Zarkin et al. *Is Less Intensive Care Really Cost Effective? Understanding Common Biases in the Economic Evaluation of Substance Abuse Treatment*
- Eric Finkelstein, **Derek Brown**, Hong Chen et al. *RTI Obesity Cost Calculator*
- Steve Litavec**, Norman Goco, Debra Fleischmann et al. *Handheld Computing Devices for Clinical Data Management in a Multi-Site Trial in Latin America*
- Bernadette M. Marriott**. *Dietary Reference Intakes in Nutrition Labeling of Foods: How Do We Gain Acceptance for New Science When It Impacts Old Policy?*
- Lisa S. Milstein**, Keith E. Levine, Peter M. Grohse et al. *Method Development for Speciation of Toxic Trivalent Arsenic Species MMA (III) and DMA (III)*
- Christian Nimsch**, Matthew Farrelly, Nathan Mann et al. *Simulation Tool to Assess the Impact of Taxes on Cross-Border Sales*
- Nancy Sonnenfeld**, D.E. Maines, and Sujha Subramanian. *Individual and Area-level Socioeconomic Disparities in Smoking Prevalence and Quitting in Maine*
- Susan Sumner**, Timothy Fennell, Jason Burgess et al. *Metabolomics: Use in Biomarker Discovery*
- Timothy Fennell, Jason Burgess, Rodney Snyder, and **Susan Sumner**. *Biomarkers and Cross-Species Extrapolation*
- Frank X. Weber**, Keith Levine, Michael A. Levine et al. *Determination of Mercury in an Assortment of Processed and Unprocessed Seafood Samples by Combustion Atomic Absorption Spectroscopy*

Friday, December 3, 2004

7:30 am *Continental Breakfast (Outside Room ABC)*

8:30 am **Plenary Session 2: Technologies across the Spectrum of Chronic to Acute Life-threatening Diseases**

Keith Kocis, UNC-Chapel Hill, Department of Pediatrics: *Extracorporeal Life Support: Assessment of an Advanced Technology in the Pediatric Intensive Care Unit*

Daniel Perry, Alliance for Aging Research, Washington, DC, *The New Age of Aging*

10:00 am *Break*

10:30 am **Fourth Concurrent Sessions**

Technologies to Inform Patients on Health Quality, Costs, and Access (Room ABC)

Lauren McCormack, RTI: **Moderator**

Michael Trisolini, RTI: *Educating and Empowering Chronic Disease Patients Using Web Technology*

Lucy Savitz, RTI: *IT and Safe Practices: The Role of Technology in Patient Safety*

Rebecca Cline, Pennsylvania State University: *The Light and Dark Sides of the Internet: Health and Risk Promoting Websites*

New Technologies for Health Measurement (Room DE)

James Chromy, RTI: **Moderator**

Jay Levinsohn and **Rita Thissen**, RTI: *New CASIC Technologies for Collecting Health Data*

Tyler Hartwell and **Gordon Cressman**, RTI: *New Technologies for International Clinical Trials*

Tim Wilcosky, RTI: *Biospecimen Collection in Epidemiologic Studies: Conventional Methods and Technology-driven Advances*

Economic Evaluations of Environmental, Food Safety, and Medical Testing Technologies (Room FG)

George Van Houtven, RTI: **Moderator**

Mary Muth, RTI: *Technologies and Costs for Reducing the Risks of Transmitting Bovine Spongiform Encephalopathy (BSE) in Cattle Slaughter Plants*

Michael Gallaher, RTI: *An Assessment of Avoidable National Health Care Costs through Improved Calibration Techniques for Medical Testing Equipment*

George Van Houtven, RTI: *A Health Benefits Assessment Model for Mercury Emissions Control Technologies*

12:15 pm *Lunch (Room H)*