Use of Real-World Data to Improve the Prevention and Care of Diabetes-Related Outcomes

*updated 10/08/2018

FRIDAY, NOVEMBER 16

SESSION 1: Landscape and Rationale of Real World Data

SESSION MODERATOR: Edward W. Gregg, PhD, Centers for Disease Control & Prevention

1:00 – 1:25 pm  Introduction and Program Agenda
Edward W. Gregg, PhD and Kamlesh Khunti, MD, PhD
Symposium Co-Chairs

1:25 – 1:50 pm  Linking Real-World Data to Decisions in Treatment, Care, and Policies for Diabetes
Joe V. Selby, MD, PhD Patient-Centered Outcomes Research Institute

1:50 – 2:15 pm  The Gap between Efficacy to Effectiveness: Re-evaluation of Population Level Interventions and Pharmaco-Effectiveness
Kamlesh Khunti, MD, PhD, University of Leicester

2:15 – 2:40 pm  The Future of the Drug Regulatory Landscape: How Will Regulations and the Approval Process Change in the Next Decade?
Peter P. Stein, MD, U.S. Food & Drug Administration

2:40 – 3:00 pm  Panel Discussion

3:00 – 3:15 pm  Break

Session 2: Applications in Clinical Comparative Effectiveness

SESSION MODERATOR: Matthew C. Riddle, Jr., MD, Oregon Health & Science University

3:15 – 3:40 pm  Assessing Real-World Safety and Effectiveness of Antihyperglycemic Agents for Type 2 Diabetes
Daniel Krewski, PhD, University of Ottawa
3:40 – 4:05 pm  Natural Experiments in Benefit Design  
Andrew J. Karter, PhD, Kaiser Permanente

4:05 – 4:30 pm  Comparing Real World Data with Randomized Trial Results: Preliminary Insights from the RCT DUPLICATE Project  
Jessica M. Franklin, PhD, Harvard Medical School

4:30 – 4:55 pm  Study of Populations Not Represented in Clinical Trials  
Elbert Huang, MD, MPH, FACP, University of Chicago

4:55 – 5:15 pm  Panel Discussion

5:30 – 7:30 pm  POSTER RECEPTION  
(hors d'oeuvres and drinks with poster presenters)

Saturday, November 17

7:00 – 7:45 am  Networking Breakfast

SESSION 3: Applications in Population Health

SESSION MODERATOR: Andrew J. Karter, PhD, Kaiser Permanente

8:00 – 8:25 am  Use of Real-World Data for Population Surveillance and Monitoring  
Kasia Lipska, MD, Yale University

8:25 – 8:50 am  Natural Experiments of Population-Wide Interventions for Chronic Disease Prevention  
Prof. Martin White, University of Cambridge

8:50 – 9:15 am  Applications to Primary Care and Prevention of Diabetes  
Ronald T. Ackermann, MD, MPH, Northwestern University

9:15 – 9:40 am  Natural Experiments of the Impact of Health Care Reform  
J. Frank Wharam, MG BCh, BAO, MPH, Harvard Medical School

9:40 – 10:00 am  Panel Discussion

10:00 – 10:15 am  Break
SESSION 4: Emerging Data Sources for Real World Data Analysis

SESSION MODERATOR: William T. Cefalu, MD, American Diabetes Association

10:15 – 10:40 am  Electronic Medical Record Data for Diabetes-Related Outcomes: The Good, Bad, and Ugly
Mary E. Reed, DrPH, Kaiser Permanente

10:40 – 11:05 am  Collecting Real-Time Data from Smart Devices
Charles E. Matthew, PhD, National Cancer Institute (invited)

11:05 – 11:30 am  Analyzing Health Outcomes Using Existing Cohorts
Matthew Gillman, MD, National Institutes of Health (invited)

11:30 – 11:55 am  Artificial Intelligence in the Health Care Setting: Promise and Pitfalls
Fatima Paruk, MD, Allscripts Analytics

11:55 am – 12:15 pm  Panel Discussion

12:30 – 2:00 pm  Networking Lunch

SESSION 5: Study Design Considerations

SESSION MODERATOR: Kamlesh Khunti, MD, PhD

2:15 – 2:40 pm  Importance of Study Design in Causal Inference in Policy Analyses Using Real World Data
Dennis Ross-Degnan, ScD, Harvard Medical School

2:40 – 3:05 pm  Predefined Analytic Approaches for Causal Inference
Bernard S. Black, MS, JD, Northwestern University

3:05 – 3:30 pm  Incorporating Patient-Centered Outcomes
Neda Laiteerapong, MD, MS, University of Chicago

3:30 – 3:55 pm  Integration of Real-World Clinical Data into Pragmatic Trials
Harold Sox, MD, Patient-Centered Outcomes Research Institute

3:55 – 4:15 pm  Panel Discussion

4:30 – 6:30 pm  POSTER RECEPTION
(hors d'oeuvres and drinks with poster presenters)

Sunday, November 18
7:00 – 7:45 am  Networking Breakfast

SESSION 6: Methodological Considerations: Analytical Approaches
SESSON MODERATOR: Chirag Patel, PhD, Harvard Medical School

8:00 – 8:25 am  Distributed Analysis in Multi-Center Studies
Sengwee Darren Toh, ScD, Harvard Medical School

8:25 – 8:50 am  Weighted Estimation for Confounded Binary Outcomes Subject to Misclassification: Post-Myocardial Infarction Statin Use and Ischemic Stroke Risk
Christopher A. Gravel, PhD, University of Ottawa

8:50 – 9:15 am  Data Analytic Techniques (for Adverse Events)
William DuMouchel, PhD, Oracle Health Sciences

9:15 – 9:35 am  Panel Discussion

9:35 – 9:50 am  Break

Session 7: Moderated Discussion

9:50 am – 11:30 am  Putting New Insights and Methods for Population-based Data Collection and Analysis into Action
Edward W. Gregg, PhD and Kamlesh Khunti, MD, PhD
Symposium Co-Chairs

*Discussion during Session 7 will inform the consensus publication. We encourage Symposium attendees to provide input during this session.