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

*updated 11/1/2018

FRIDAY, NOVEMBER 16

SESSION 1: Landscape and Rationale of Real World Data, Part 1
SESSIO N 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, FRCGP, FRCP, MD, PhD
Symposium Co-Chairs

1:25 – 1:50 pm  Linking Real-World Data to Decisions in Treatment, Care, and Polices for Diabetes
Joe V. Selby, MD, MPH, 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, FRCGP, FRCP, 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: Landscape and Rationale of Real World Data, Part 2
SESSIO N MODERATOR: Matthew C. Riddle, Jr., MD, Oregon Health & Science University

3:15 – 3:40 pm  Comparing Real World Data with Randomized Trial Results: Preliminary Insights from the RCT DUPLICATE Project
Jessica M. Franklin, PhD, Harvard Medical School
3:40 – 4:05 pm  
**Assessing Real-World Safety and Effectiveness of Antihyperglycemic Agents for Type 2 Diabetes**  
Daniel Krewski, PhD, MHA, University of Ottawa

4:05 – 4:30 pm  
**Study of Populations Not Represented in Clinical Trials**  
Elbert Huang, MD, MPH, FACP, University of Chicago

4:30 – 4:55 pm  
**Benefits Design—Lessons from Managed Care as a Living Lab of Real-World Data**  
Andrew J. Karter, PhD, Kaiser Permanente

4:55 – 5:15 pm  
**Panel Discussion**

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

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**Saturday, November 17**

7:00 – 7:45 am  
**Networking Breakfast**

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**SESSION 3: Applications in Population Health**

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

8:00 – 8:25 am  
**Natural Experiments of the Impact of Health Care Reform**  
J. Franklin Wharam, MG BCh, BAO, MPH, Harvard Medical School

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  
**Use of Real-World Data for Population Surveillance and Monitoring**  
Kasia Lipska, MD, Yale University

9:15 – 9:40 am  
**Applications to Primary Care and Prevention of Diabetes**  
Ronald T. Ackermann, MD, MPH, Northwestern University

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: Daniel Krewski, PhD, MHA, University of Ottawa

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**  
Eric J. Shiroma, Jr., SD, MEd, National Institute of Aging

11:05 – 11:30 am  
**Incorporating Real-World Data into Economic Modeling on Observational Follow-Up Studies**  
William H. Herman, MD, MPH, University of Michigan

11:30 – 11:55 am  
**Artificial Intelligence in the Health Care Setting: Promise and Pitfalls**  
Fatima Paruk, MD, MPH, 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, FRCGP, FRCP, 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

SESSION MODERATOR: Chirag J. 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 the One Year Risk of Stroke
Christopher A. Gravel, PhD, University of Ottawa

8:50 – 9:15 am  Estimation of Adverse Reaction Disproportionalities for Diabetes Drugs
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, FRCGP, FRCP, MD, PhD
Symposium Co-Chairs

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