Workshop A: Reimbursement

Panel 1: Blood Glucose Monitoring, CGM, and Artificial Pancreas

08:00  Moderator
Craig MacKenzie

08:05  New Regulatory Policies
Paul Radensky, MD, JD
McDermott Will & Emery LLP, Washington, DC

08:20  Impact of Competitive Bidding on CGM
John Warren
McDermott+ Consulting, Washington, DC

08:35  CGM Reimbursement
Allan Glass, MD
The Endocrine Society, Washington, DC

08:50  Reimbursement Update for CGM and Artificial Pancreas
Harmeet Chhabra, MA
Medtronic, Northridge, California

09:05  Q & A

09:35  Break

Panel 2: Other Technologies, Pumps, and Mobile Apps

10:00  Moderator
Pablo Salazar
McKinsey & Company, Stamford, Connecticut

10:05  Pumps
Bruce Quinn, MD, PhD
Bruce Quinn Associates, Los Angeles, California

10:20  Reimbursement for Digital Health Products
Robert Guigley, MBA
Omada Health, Inc., San Francisco, California

10:35  Reimbursement for Digital Health
Mike Joyce
McKinsey & Company, Washington, DC

10:50  Legal Aspects of Reimbursement for Telehealth
Amy Lerman, JD
Epstein Becker & Green, Washington, DC

11:05  Q & A

11:35  End of workshop/Lunch
Workshop B: Advances in Insulin Delivery
Panel 1: Accurate Insulin Dosing

08:00  Moderators
Alicia Warnock, MD, FACP
Walter Reed NMMC, Bethesda, Maryland
Anant Nigam, MD, FRCGP
Nigam Diabetes Center, Jaipur, India

08:05  Treatment of Uncontrolled Diabetes
Jennifer Sherr, MD, PhD
Yale University, New Haven, Connecticut

08:20  Avoiding Insulin Dose Errors Related to Deficiencies in Decision Support Software
Andreas Pfützner, MD, PhD
Pfützner Science & Health Institute, Mainz, Germany

08:35  Accurate Insulin Dosing for Decision Support
Ellie Strock, ANP-BC, FAANP, CDE
Voluntis, Cambridge, Massachusetts

08:50  Pump Delivery of U-500 Insulin
Jennal Johnson, MS, FNP, BC-ADM, CDE, CDTC
Eli Lilly & Company, Indianapolis, Indiana
Trang Ly, MBBS, FRACP, PhD
Insulet Corporation, Billerica, Massachusetts

09:05  Q & A

09:35  Break

Panel 2: Technologies for Insulin/Pen Delivery

10:00  Moderators
Simon Friedman, PhD
University of Missouri at Kansas City, Kansas City, Missouri
Anne Lee, MD, FACE
Allina Health, Minneapolis, MN

10:05  Clinician’s Perspective on Why We Need Smart Pens
Bruce Buckingham, MD
Stanford University, Palo Alto, California

10:20  Whatever Happened to Inhaled Insulin?
Lutz Heinemann, PhD
Science & Co., Dusseldorf, Germany

10:35  Advances in Insulin Delivery
Jeffrey Joseph, DO
Thomas Jefferson University, Philadelphia, Pennsylvania

10:50  Update on Oral Insulin
Miriam Kidron, PhD
Oramed Pharmaceutical Inc, Jerusalem, Israel

11:05  Q & A

11:35  End of workshop/Lunch
Workshop C: Social Media for Diabetes – Communications and Advertising

Panel 1: How Social Media Can Promote Healthy Behavior

12:40  **Moderators**  
Deborah Greenwood, PhD, RN, BC-ADM, CDE, SAADE  
Mytonomy, Bethesda, Maryland  
Malinda Peeples, MS, RN, CDE, FAADE  
WellDoc, Baltimore, Maryland

12:45  **Role of Mobile Technology in the Management of Diabetes**  
Michael Kloss  
Ascensia Diabetes Care, Basel, Switzerland

13:00  **Reminders for Engaging with Mobile Applications**  
Bijan Najafi, PhD  
Baylor College of Medicine, Houston, Texas

13:15  **Gamification for Diabetes to Increase Adherence**  
Vishal Khanna, MFA, MPH  
HealthPrize Technologies, Norwalk, Connecticut

13:30  **The Quality and Safety of Online Communities**  
Elissa R Weitzman, ScD, MSc  
Boston Children’s Hospital | Harvard Medical School, Boston, Massachusetts

13:45  **Q & A**

14:10  **Break**

Panel 2: Advertising on Social Media

14:35  **Moderator**  
Michael Ryan, JD  
McDermott Will & Emery, Washington, DC

14:40  **Benefits of Social Media for Diabetes**  
David Ahn, MD  
UCLA Health, Valencia, California

14:55  **Social Media for Diabetes Communication**  
Stayce Beck, PhD, MPH  
U.S. Food and Drug Administration, Silver Spring, Maryland

15:10  **Advertising on Social Media**  
Michael Bachner  
Novo Nordisk, Inc., Plainsboro Township, New Jersey

15:25  **Legal Issues About Advertising on Social Media**  
Michael Ryan, JD  
McDermott Will & Emery, Washington, DC

15:40  **Q & A**

16:15  **End of workshop**

16:15–18:30  **Poster session first night and inauguration of the 2017 Diabetes Technology Meeting**

18:30–20:00  **Posters remain on display for viewing**
Workshop D: Developments in Glucose Monitoring

Panel 1: Technology

12:40  **Moderators**
Geoffrey Chase, PhD
University of Canterbury, Christchurch, Canterbury, New Zealand
George Cembrowski, PhD
Alberta Health Services, Edmonton, Alberta, Canada

12:45  **Recent Advanced Diabetes Technologies from Asia**
Koji Sode, PhD
Tokyo University of Agriculture & Technology, Koganei, Tokyo, Japan

13:00  **FDA Policies**
Courtney Lias, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland

13:15  **CGM in Type 2 Diabetes**
Eugene Wright, MD
Duke University, Fayetteville, North Carolina

13:30  **Contact Lenses to Measure Glucose**
Greg Herman, PhD
Oregon State University, Corvallis, Oregon

13:45  **Q & A**

14:10  **Break**

Panel 2: New End Points for Diabetes Technology Clinical Trials

14:35  **Moderators**
Judith Fradkin, MD
NIDDK, National Institutes of Health, Bethesda, Maryland
Victor Schneider, MD
NASA Headquarters, Washington, DC

14:40  **Glycemic Variability: Multiple Types, Multiple Metrics, and Clinical Utility**
David Rodbard, MD
Biomedical Informatics Consultants LLC, Potomac, Maryland

14:55  **A Non-Traditional Endpoint**
Marc Breton, PhD
University of Virginia, Charlottesville, Virginia

15:10  **A New Definition of Hypoglycemia for Clinical Trials**
Douglas Muchmore, MD
Kinexum, La Jolla, California

15:25  **New Endpoints and Adaptive Design for Diabetes Clinical Trials**
Alexander Fleming, MD
Kinexum, Harpers Ferry, West Virginia

15:40  **Q & A**

16:15  **End of workshop**

16:15–18:30  **Poster session first night and inauguration of the 2017 Diabetes Technology Meeting**

18:30–20:00  **Posters remain on display for viewing**
07:00  *Continental Breakfast*

**Session 1: Artificial Intelligence for Decision Support**

08:00  **Welcome/Opening Remarks**  
David Klonoff, MD, FACP, FRCP (Edin), Fellow AIMBE  
Mills-Peninsula Medical Center, San Mateo, California

08:05  **How NASA Science and Diabetes Technology Support Each Other**  
Jimmy Wu, BS  
Center for Space Medicine, Baylor College of Medicine, Houston, Texas

08:30  **Moderators**  
Kong Chen, PhD, MSCI  
NIDDK/NIH, Bethesda, Maryland  
Josep Vehi, PhD  
University of Girona, Girona, Spain

08:35  **Decision Support Based on Self-Monitoring or Continuous Monitoring Data**  
Boris Kovatchev, PhD  
University of Virginia, Charlottesville, Virginia

08:55  **Decision Support Systems for Physicians and Patients**  
Moshe Phillip, MD  
Schneider Children’s Medical Center of Israel, Petah Tikva, Israel

09:15  **Deep Learning to Diagnose Diabetic Retinopathy**  
Howard Zisser, MD  
Verily Life Sciences, South San Francisco, California

09:35  **Q & A**

09:55  **Break**
Session 2: Privacy for Diabetes Devices

10:20  Diabetes Technology Society Leadership Award
10:25  Moderator
   Lucia Savage, JD
   Omada Health, San Francisco, California
10:30  Panel Discussion
   Peter Blenkinsop, JD
   Drinker Biddle & Reath LLP, Washington, DC
   Seth Carmody, PhD
   U.S. Food and Drug Administration, Silver Spring, Maryland
   Cora Han, JD
   U.S. Federal Trade Commission, Washington, DC
   W. Nicholson Price II, JD, PhD
   University of Michigan, Ann Arbor, Michigan
   Lucia Savage, JD
   Omada Health, San Francisco, California
   Rachel Seeger, MPA, MA
   U.S. Department of Health and Human Services, Office for Civil Rights, Washington, DC
   Elissa R Weitzman, ScD, MSc
   Boston Children’s Hospital | Harvard Medical School, Boston, Massachusetts

11:35  Q & A
11:55  End of session/Lunch

Session 3: Augmented Reality

12:55  Moderator
   Roy Vigneulle, PhD
   U.S. Army Medical Research & Materiel Command MCMR-RTO, Frederick, Maryland
13:00  The Effect of Virtual Reality on Emotional Reaction to Diabetes-Related Data
   Bryan Gibson, PhD
   University of Utah, Salt Lake City, Utah
13:20  The Underlying Complexity and the Striking Simplicity of Augmented Reality
   Victor Chapela
   Suggestic, San Francisco, California
13:40  Measure and Reduce Stress with VR Biofeedback
   Ben Barone, MA
   Coresights, Washington, DC
14:00  Q & A
14:15  End of session/Break
Session 4: Artificial Pancreas – Recent Innovations in Algorithms

14:40  Moderators
Guillermo Arreaza-Rubin, MD
NIDDK, National Institutes of Health, Bethesda, Maryland
Boris Kovatchev, PhD
University of Virginia, Charlottesville, Virginia

14:45  Diabetes Technology Society Artificial Pancreas Award

14:50  Intra Peritoneal AP System
Katharine Barnard, PhD, CPsychol, AFBPsS
Bournemouth University / BHR Ltd, Hampshire, United Kingdom

15:00  Pulsatile Insulin Secretion and Subcutaneous Bolusing
Ananda Basu, MBBS, MD, FRCP (UK)
University of Virginia, Charlottesville, Virginia

15:10  The NIH Artificial Pancreas Consortium
Guillermo Arreaza-Rubin, MD
NIDDK, National Institutes of Health, Bethesda, Maryland

15:20  The University of Virginia AP Project
Stacey Anderson, MD
University of Virginia, Charlottesville, Virginia

15:30  Performance of the Medtronic 670G
Jennifer Sherr, MD, PhD
Yale University, New Haven, Connecticut

15:40  Performance of the Omnipod Personalized Model Predictive Control Algorithm in Type 1 Diabetes
Trang Ly, MBBS, FRACP, PhD
Insulet Corporation, Billerica, Massachusetts

15:50  The Bigfoot Automated Insulin Delivery System
Jen Block, FNP, NP-C, MSN, RN, CDE
Bigfoot Biomedical, Inc., Milpitas, California

16:00  Q&A

16:15  End of Session

16:15–18:30  Poster session second night
18:30–20:00  Posters remain on display for viewing
Agenda

Saturday, November 4, 2017

07:00  Continental Breakfast

Session 5: Novel Insulins

08:00  Moderators
Frank Flacke, PhD
Sanofi-Aventis Deutschland GmbH, Frankfurt, Germany
Jeffrey Joseph, DO
Thomas Jefferson University, Philadelphia, Pennsylvania

08:05  Student Award Presentation

08:10  Silver Prize Student Presentation:
Histological Comparison of Tissue Response for Stainless Steel and Teflon Continuous Subcutaneous Insulin Infusion (CSII) Catheters in Live Swine
David Diaz, PhD
Thomas Jefferson University, Philadelphia, Pennsylvania

08:25  Insulins in the Pipeline
Eric Zijlstra, PhD
Profil, Neuss, Germany

08:40  Intraperitoneal Insulin Delivery
Frank Doyle, PhD, CPGS
Harvard John A. Paulson School of Engineering and Applied Sciences, Cambridge, Massachusetts

08:55  Hepatic-Directed Insulin (Diasome)
Douglas Muchmore, MD
Diasome Pharmaceuticals, Cleveland, Ohio

09:10  Update on Biosimilar Insulin
Lutz Heinemann, PhD
Science & Co., Düsseldorf, Germany

09:25  Smart Insulin
Zhen Gu, PhD
University of North Carolina / North Carolina State University, Chapel Hill, North Carolina

09:40  Q & A

10:00  Break
Session 6: Assessment of Diabetes Technology

10:25  **Moderators**
Marc Breton, PhD
University of Virginia, Charlottesville, Virginia
Alexander Fleming, MD
Kinexum, Harpers Ferry, West Virginia

10:30  **Meta-Analysis**
John Pickup, MA, BM, DPhil, DSc, FRCPath
King’s College London, London, United Kingdom

10:50  **Quality of Life**
Katharine Barnard, PhD, CPsychol, AFBPsS
Bournemouth University / BHR Ltd, Hampshire, United Kingdom

11:10  **Cost Efficiency**
Brett McQueen, PhD
University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, Colorado

11:30  **Post Market Surveillance**
Alain Silk, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland

11:50  **Q & A**

12:05  *End of session/Lunch*

Session 7: DTS Surveillance Program for Cleared Blood Glucose Monitoring Systems

13:05  **Moderators**
Alberto Gutierrez, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland
David Klonoff, MD, FACP, FRCP (Edin), Fellow AIMBE
Mills-Peninsula Medical Center, San Mateo, California

13:10  **Results of the Surveillance Program**
Michael Kohn, MD, MPP, FACEP
University of California, San Francisco, San Francisco, California

13:25  **Panel Discussion**
**Session 8: Continuous Insulin Monitoring**

13:40  **Moderators**  
Gerold Grodsky, PhD  
University of California, San Francisco, San Francisco, California  
David Kerr, MD, FRCPE  
William Sansum Diabetes Center, Santa Barbara, California

13:45  **The Clinical Need for Insulin Monitoring**  
David Kerr, MD, FRCPE  
William Sansum Diabetes Center, Santa Barbara, California

14:00  **EIS Spectroscopy for Continuous Insulin Monitoring**  
Jeffrey T. La Belle, PhD  
Arizona State University, Tempe, Arizona

14:15  **Point-of-Care Insulin Monitoring Device for Improved Diabetes Management**  
B. Scott Ferguson, PhD  
Aptitude, Santa Barbara, California

14:30  **Q & A**

14:45  **Break**

**Session 9: Continuous Glucose Monitoring**

15:10  **Moderator**  
John Pickup, BM, BCh, DPhil  
King’s College London School of Medicine, London, UK

15:15  **Panel Discussion**  
Tim Dunn, PhD  
Abbott Diabetes Care, Alameda, California  
Shinjiro Sekimoto, MS  
ARKRAY, Inc., Kyoto, Japan  
Peter Simpson, PhD  
Dexcom, San Diego, California  
Robert Vigersky, MD  
Medtronic, Washington, DC  
Robert S. Cargill, PhD  
Pacific Diabetes Technologies, Portland, Oregon  
Andrew DeHennis, PhD  
Senseonics, Germantown, Maryland

16:15  **Q & A**
Session 10: Live Demonstration

16:35  **Moderators**
John Pickup, BM, BCh, DPhil
King’s College London School of Medicine, London, UK
Robert Vigersky, MD
Medtronic, Washington, DC

16:40  **Real-Time CGM in Active U.S Soldiers**
Sammy Choi, MD
Womack Army Medical Center, Fort Bragg, North Carolina

17:00  **Adjourn**