



## Agenda | 17th Annual Diabetes Technology Meeting | Bethesda, MD

Thursday, November 2, 2017

### Workshop A: Reimbursement

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

- 08:00 **Moderator**  
Craig MacKenzie  
McKinsey & Company, New York, New York
- 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**

# Agenda

Thursday, November 2, 2017

## 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, FRCP  
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**

# Agenda

Thursday, November 2, 2017

## 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 Peebles, 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**

# Agenda

Thursday, November 2, 2017

## 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**
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# Agenda

**Friday, November 3, 2017**

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**

# Agenda

Friday, November 3, 2017

## 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***

# Agenda

**Friday, November 3, 2017**

## **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**



# Agenda

**Saturday, November 4, 2017**

## **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**

# Agenda

Saturday, November 4, 2017

## 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**

# Agenda

**Saturday, November 4, 2017**

## **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**

