

PRE-MEETING WORKSHOPS AGENDA

THURSDAY, NOVEMBER 8, 2012

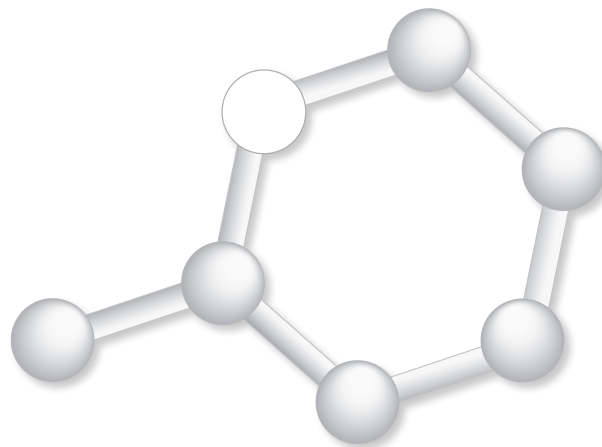
WORKSHOP A: Increasing Adoption of Diabetes Technology

Panel 1: Better Science

- 08:00 Moderators:
COL Karl Friedl, PhD
U.S. Army TATRC, Fort Detrick, Maryland
- Carol Herman, RN
AAMI, Arlington, Virginia
- 08:05 How Cardiologists Have Successfully Adopted Technology for Atherosclerosis:
Lessons for Diabetes Technology
Naomi Hamburg, MD
Boston University Medical Center, Boston, Massachusetts
- 08:15 New End Points for Diabetes Trials
Natalie Wisniewski, PhD
Medical Device Consultancy, San Francisco, California
- 08:25 Engaging Payers to Support Diabetes Technology
Bruce Quinn, MD, PhD
Foley Hoag LLP, Boston, Massachusetts
- 08:35 Q & A/Panel Discussion

Panel 2: Better Products

- 09:05 Human Factors for Diabetes Devices
Quynh-Nhu Nguyen, BS
U.S. Food and Drug Administration, Silver Spring, Maryland
- 09:20 Social Media to Promote Better Products
Amy Tenderich, MA
Alliance Health Networks, San Francisco, California
- 09:35 Q & A/Panel Discussion
- 10:05 Break



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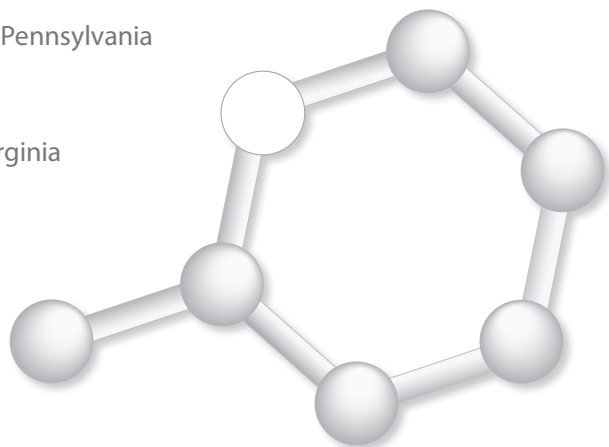
Panel 3: Better Marketing

- 10:30 Nonmedical Products: Marketing Ideas for Diabetes Products
Ronald Goodstein, PhD
Georgetown University, Washington, DC
- 10:40 Marketing Medical Products
Anton Petkov, MD
Sanofi, Frankfurt, Germany
- 10:50 Social Media Marketing
Kelly Close, MBA
Close Concerns, San Francisco, California
- 11:00 Q & A/Panel Discussion
- 11:30 End of workshop/Lunch

WORKSHOP B: The Sensor-Tissue Interface

Panel 1: Academic

- 08:00 Moderators:
Christine Kelley, PhD
National Institutes of Health, Bethesda, Maryland
- Yogish C. Kudva, MBBS
Mayo Clinic, Rochester, Minnesota
- 08:05 Biomechanics of the Sensor-Tissue Interface
Kristen Helton, PhD
University of Washington, Seattle, Washington
- 08:22 Single-Port Subcutaneous Glucose Monitoring at the Site of Insulin Delivery
Julia Mader, MD
Medical University of Graz, Graz, Austria
- 08:39 Tissue Pathology
Jeffrey Joseph, DO
Thomas Jefferson University, Philadelphia, Pennsylvania
- 08:56 Tissue Engineering
Kaiming Ye, PhD
National Science Foundation, Arlington, Virginia
- 09:13 Q & A/Panel Discussion
- 09:35 Break



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Panel 2: Industry

- 09:55 Moderators:
Dorian Liepmann, PhD
University of California, Berkeley, Berkeley, California
- Mike McShane, PhD
Texas A&M University, College Station, Texas
- 10:00 Inflammation, Miniaturization, and Sensitivity: The Three Critical Issues for a Robust Implantable Glucose Sensor
Fotios Papadimitrakopoulos, PhD
Biorasis Inc., Storrs/Mansfield, Connecticut
- 10:17 Application of the Implantable Continuous Glucose Monitoring System in a Human Subject
Joseph Lucisano, PhD
GlySens Inc., San Diego, California
- 10:34 Improved Sensor Materials and Interface Demonstrate Improved Performance and Reliability in the DexCom G4 System
Robert Boock, PhD
DexCom, San Diego, California
- 10:51 A Percutaneous Optical Fiber Glucose Sensor for Continuous Glucose Monitoring
Achim Mueller, PhD
EyeSense GmbH, Grossostheim, Germany
- 11:08 Q & A/Panel Discussion
- 11:30 End of workshop/Lunch

WORKSHOP C: Bolus Calculators for Insulin Dosing

Panel 1: Physiology

- 12:30 Moderators:
Kong Chen, PhD
National Institutes of Health, Bethesda, Maryland
- Tessa Lebinger, MD
U.S. Food and Drug Administration, Silver Spring, Maryland
- 12:35 How the Pancreas Calculates Mealtime Release of Insulin
Arthur Sherman, PhD
National Institutes of Health, Bethesda, Maryland
- 12:52 The Impact of Fat on Bolus Calculators
Howard Wolpert, MD
Joslin Diabetes Center, Boston, Massachusetts
- 13:09 The Impact of Fat and Protein on Bolus Calculators
Ewa Pankowska, MD, PhD
Medical Academy in Warszawa, Warsaw, Poland

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13:26 Bolus Calculators: The Good, The Bad, and The Ugly
Bruce Bode, MD
Atlanta Diabetes Associates, Atlanta, Georgia

13:43 Q & A/Panel Discussion

14:05 Break

Panel 2: Clinical Applications

14:25 Moderators:
COL Robert A. Vigersky, MD
Walter Reed National Military Medical Center, Washington, DC

W. Kenneth Ward, MD
Oregon Health and Science University, Legacy Health System, Portland, Oregon

14:30 Insulin Titration Supported by Automated Systems
Frank Flacke, PhD
Sanofi, Frankfurt, Germany

14:47 Regulatory Aspects of Bolus Calculators for Insulin Dosing
Patricia Beaston, MD, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland

15:04 Glucose-Information-Based Therapy Support: Evidence Base and Medical Value of Automated Insulin Bolus Calculation
Matthias Axel Schweitzer, MD, MBA
Roche Diagnostics GmbH, Mannheim, Germany

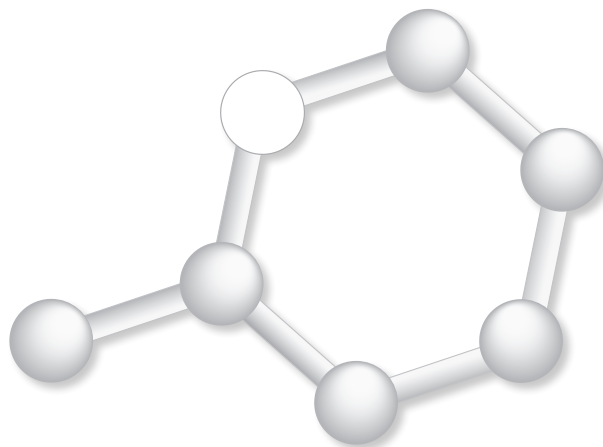
15:21 Clinical Outcomes from Using Bolus Calculators
Signe Schmidt, MD
Hvidovre Hospital, Copenhagen, Denmark

15:38 Q & A/Panel Discussion

16:00 End of workshop

16:00–18:30 Poster Session

18:30–20:00 Posters remain on display for viewing



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WORKSHOP D: Glycemic Variability

Panel 1: Clinical Applications

- 12:30 Moderators:
Howard Zisser, MD
Sansum Diabetes Research Institute,
Santa Barbara, California
- Judith Fradkin, MD
National Institutes of Health,
Bethesda, Maryland
- 12:35 Measuring Glycemic Variation: Metrics and Glycemic Data Sets—Limitations and Pitfalls
Fergus Cameron, MD
Royal Children's Hospital-Parkville, Melbourne, Australia
- 12:52 The Effect of Islet Transplantation on Glycemic Variability
Horacio Rilo, MD
University of Arizona, Tucson, Arizona
- 13:09 The Impact of Glycemic Variability on Hospital Mortality
James Krinsley, MD
Stamford Hospital, Stamford, Connecticut
- 13:26 Glycemic Variability in Obese Patients
Stephanie Fonda, PhD
Walter Reed Army Medical Center, Washington, DC
- 13:43 Q & A/Panel Discussion
- 14:05 Break

Panel 2: New Metrics to Quantify Glycemic Variability

- 14:25 Moderators:
Guillermo Arreaza-Rubin, MD
National Institutes of Health, Bethesda, Maryland
- Marc Breton, PhD
University of Virginia, Charlottesville, Virginia
- 14:30 A Novel Metric for Glycemic Variability
Thomas Peyser, PhD
DexCom, San Diego, California
- 14:47 Quantifying the Distribution of Blood Glucose
Lane Desborough, MSc, PEng
Medtronic, Northridge, California
- 15:04 Real-Time Calculation of Glycemic Variability to Improve Intensive Care Unit Patient Outcomes
Francesco Valgimigli, PhD
A. Menarini Diagnostics, Florence, Italy
- 15:21 Glycemic Variability Measured with Self-Monitoring of Blood Glucose
Holly Schachner, MD
Bayer, Tarrytown, New York
- 15:38 Q & A/Panel Discussion
- 16:00 End of workshop
- 16:00–18:30 Poster session
- 18:30–20:00 Posters remain on display for viewing

DIABETES TECHNOLOGY MEETING AGENDA

FRIDAY, NOVEMBER 9, 2012

07:00 Continental Breakfast

SESSION 1: Diabetes Telemedicine Infrastructure

- 08:00 Welcome
Athanasios Sambanis, PhD
Regenerative Engineering and Medicine (REM) Center at Georgia Tech, Atlanta, Georgia
- 08:05 Opening Remarks
David C. Klonoff, MD, FACP
Mills-Peninsula Health Services, San Mateo, California
University of California, San Francisco, San Francisco, California
- 08:10 Keynote Address
Jeffrey Shuren, MD, JD
U.S. Food and Drug Administration, Silver Spring, Maryland
- 08:35 Moderators:
Riccardo Bellazzi, PhD Kang Lee, MSc (Eng)
University of Pavia, Pavia, Italy National Institute of Standards and Technology, Gaithersburg, Maryland
- 08:40 Wireless Solutions for Improved Self-Management of Diabetes
Sven Bursell, PhD
University of Hawaii, Honolulu, Hawaii
- 08:55 How Future Diabetes Care Will Be Managed Wirelessly
Don Jones, JD, MBA
Qualcomm Life, San Diego, California
- 09:10 The Future of Diabetes Will be Wireless
Brad Thompson, JD, MBA
Epstein Becker Green, Washington, DC
- 09:25 Q & A/Panel Discussion
- 09:45 End of session/Break

SESSION 2: Technologies for Metabolic Monitoring

- 10:10 Moderators:
Rich Williams, MD
NASA Headquarters, Washington, DC
Ananda Basu, MD, FRCP
Mayo College of Medicine, Mayo Clinic, Rochester, Minnesota
- 10:15 Diabetes Technology Society Leadership Award
- 10:20 Using a Blood Glucose Monitor to Measure Analytes other than Glucose
Yi Lu, PhD
University of Illinois at Urbana-Champaign, Urbana, Illinois
- 10:35 A Novel Continuous Glucose Monitor for the Intensive Care Unit
James Causey, BS
OptiScan Biomedical, Inc., Hayward, California
- 10:50 Transdermal Continuous Glucose Monitoring: A Needle-Free Alternative to Invasive Sensors
Wayne Menzie, BS
Echo Therapeutics, Inc., Franklin, Massachusetts
- 11:05 Q & A/Panel Discussion
- 11:30 End of session/Lunch

DIABETES TECHNOLOGY MEETING AGENDA

FRIDAY, NOVEMBER 9, 2012

SESSION 3: Artificial Pancreas: Engineering Aspects

- 12:40 Moderators:
Jeffrey Joseph, DO
Thomas Jefferson University, Philadelphia, Pennsylvania
Eyal Dassau, PhD
University of California, Santa Barbara, Santa Barbara, California
- 12:45 Artificial Pancreas Award
- 12:50 Moving the Closed-Loop Artificial Pancreas from the Clinic to the Home: Algorithmic Developments
Frank Doyle III, PhD
University of California, Santa Barbara, Santa Barbara, California
- 13:05 Robustly Adaptive Closed-Loop Blood Glucose Control in Children and Adults with Type 1 Diabetes
Using a Bihormonal Bionic Pancreas
Edward Damiano, PhD
Boston University, Boston, Massachusetts
- 13:20 Outpatient Artificial Pancreas: Technology and Clinical Trials
Boris Kovatchev, PhD
University of Virginia Health System, Charlottesville, Virginia
- 13:35 Outpatient Artificial Pancreas: Smart Sensors and Algorithms
Claudio Cobelli, PhD
University of Padova, Padova, Italy
- 13:50 Q & A/Panel Discussion
- 14:20 End of session/Break

SESSION 4: Artificial Pancreas: Clinical Aspects

- 14:45 Moderators:
Roman Hovorka, PhD, MSc, BSc
University of Cambridge, Cambridge, United Kingdom
Arleen Pinkos, BS
U.S. Food and Drug Administration, Silver Spring, Maryland
- 14:50 In-Home Use of a Predictive Nocturnal Pump Shut-Off Algorithm
Bruce Buckingham, MD
Stanford University, Stanford, California
- 15:05 Results from the AP@home Project
J. Hans DeVries, MD
Academic Medical Center, Amsterdam, The Netherlands
- 15:20 Moving to Artificial Pancreas as a Therapy for Type 1 Diabetes: How to Select and Qualify the Candidates
Eric Renard, MD, PhD
Hospital Lapeyronie, Montpellier, France
- 15:35 Q & A/Panel Discussion
- 16:00 Adjourn
- 16:00–18:30 Poster Session
- 18:30–20:00 Posters remain on display for viewing

DIABETES TECHNOLOGY MEETING AGENDA

SATURDAY, NOVEMBER 10, 2012

07:00 Continental Breakfast

SESSION 5: Insulin Delivery Technology

- 08:00 Moderators:
Gerold Grodsky, PhD
University of California, San Francisco, San Francisco, California
- Graham B.I. Scott, PhD
National Space Biomedical Research Institute, Houston, Texas
- 08:05 Local Warming Improves Insulin Absorption
Andreas Pfützner, MD, PhD
IKFE GmbH, Mainz, Germany
- 08:20 Insulin Delivery with Microneedles
Ronald Pettis, PhD
BD Technologies, Research Triangle Park, North Carolina
- 08:35 Insulin Pump Use in 1182 Young Children in the Type 1 Diabetes Exchange Clinic Registry Is Associated with Lower Hemoglobin A1c Levels
Scott Blackman, MD, PhD
Johns Hopkins Children Center, Baltimore, Maryland
- 08:50 Technical Specification of the DiaPort
Thomas Frei, BS
Roche Diabetes Care AG, Burgdorf, Switzerland
- 09:05 Q & A/Panel Discussion
- 09:30 End of session/Break

SESSION 6: Novel Insulins

- 09:55 Moderators:
G. Alexander Fleming, MD
Kinexum, Harpers Ferry, West Virginia
- Poul Strange, MD, PhD
Integrated Medical Development, Princeton Junction, New Jersey
- 10:00 Biosimilar Insulins
Lutz Heinemann, PhD
Profil Institute for Metabolic Research, Neuss, Germany
- 10:15 Ultra-Long-Acting Insulins: Do We Need Them?
Tim Heise, MD
Profil Institute for Metabolic Research, Neuss, Germany
- 10:30 Anhydrous Glucagon to Treat Hypoglycemia
Steve Prestrelski, PhD
Xeris Pharmaceuticals, Austin, Texas
- 10:45 Juvenile Diabetes Research Foundation (JDRF)
Student Research Award

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SATURDAY, NOVEMBER 10, 2012

- 10:50 Presentation by JDRF Student Research Award Winner
11:05 Q & A/Panel Discussion
11:30 End of session/Lunch

SESSION 7: Reference Methods for Assessing Performance of Blood Glucose Monitors

- 12:40 Moderators:
Darrell Wilson, MD
Stanford University and the Lucile Packard Children's Hospital at Stanford, Stanford, California
George Cembrowski, MD, PhD
University of Alberta Hospital, Edmonton, Alberta, Canada
- 12:45 A Laboratory Perspective on Reference Methods for Blood Glucose Monitoring
Mitchell Scott, PhD
Washington University School of Medicine, St. Louis, Missouri
- 13:00 A Regulatory Perspective on Reference Methods for Blood Glucose Monitoring
Alberto Gutierrez, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland
- 13:15 Benefits of Using the YSI as a Reference Method
Jay Johnson, PhD; Jamie Lussier, MS
YSI Life Sciences, Yellow Springs, Ohio
- 13:30 New Reference Methods for the 21st Century
Guido Freckmann, MD
Institute for Diabetes Technology, Ulm, Germany
- 13:45 Q & A/Panel Discussion
14:20 End of session/Break

SESSION 8: Continuous Glucose Monitoring

- 14:45 Moderator:
Steven Russell, MD, PhD
MGH Diabetes Associates, Boston, Massachusetts
- 14:50 Update on the Performance of VEO
John Mastrototaro, PhD
Medtronic Diabetes, Northridge, California
- 15:05 Intensive Care Unit Management Using the SPRINT
Geoff Chase, PhD
University of Canterbury, Christchurch, New Zealand
- 15:20 Taking Continuous Glucose Monitoring to a New Dimension with Geographic Information
Sean Doherty, PhD
Wilfrid Laurier University, Waterloo, Canada
- 15:35 Q & A/Panel Discussion
15:55 Stretch Break

DIABETES TECHNOLOGY MEETING AGENDA

SATURDAY, NOVEMBER 10, 2012

SESSION 9: Live Demonstrations

- 16:00 Moderator:
David C. Klonoff, MD, FACP
Mills-Peninsula Health Services, San Mateo, California
University of California, San Francisco, San Francisco, California
- 16:05 Pressure-Sensing Insoles for Neuropathic Ulcer Prevention
Breanne Everett, MD
Orpyx Medical Technologies Inc., Calgary, Alberta, Canada
- 16:20 A New Device for Activity Measurement to Assess Caloric Expenditure
Kong Chen, PhD
National Institutes of Health, Bethesda, Maryland
- 16:35 Automated Glycemic Pattern Analysis using the OneTouch® Verio™IQ Blood Glucose Monitoring System
Larry Katz, PhD
LifeScan, Inc., Wayne, Pennsylvania
- 16:50 Meeting Summary
- 17:05 End of Meeting