Diabetes Today: Discipline, Devices & Development

Program Description

MDG Members and the public have seen enormous development in options for insulin delivery and self-monitoring of blood glucose. But gaps remain!

Equally troubling, Diabetes continues to grow. The solution depends not just on treatments but patients - to bring about lifestyle change.

This Forum will Kick Off MDG’s 15th Year by setting the Diabetes Challenge.

We look first at the Clinician’s perspective on treatment, the Patient and discipline required to achieve quality outcomes.

Next, we will explore the extraordinary array of medical devices in the market today to estimate and optimize blood glucose - from simple test strips and insulin injections to complex subcutaneous continuous glucose monitors and pumps.

Then we will discuss patient non-compliance, device hypoglycemic accuracy and preventative interventions.

Simultaneously, start-ups, early stage companies and researchers have been advancing innovation like biomarker based diagnosis, formulating oral insulin and non-invasive blood glucose monitoring to progress to an artificial pancreas.

All on the table!

MDGBoston is privileged to welcome back John L. Brooks, III, Immediate Past CEO, Joslin Diabetes Center to Moderate this important program.

Osama Hamdy will offer his research and therapeutic perspective on ‘burning’ patient issues.

Frank Manganaro a respected professional, will help us view the business opportunities today.

Early technical research progress on the ‘artificial pancreas’, will be introduced by Professor Ed Damiano.

The Final Presentation: Jeff Valk will describe the first automated blood glucose control system for hospitalized patients.

Agenda

4:00 — 5:30 PM
Arrival, Sponsors Tables, and Networking

5:30 — 6:00 PM
Food and Continued Networking

6:00 — 8:30
Presentations, Audience and Presenters Q&A

8:30 — 9:00
Networking
**Moderator**

**John L. Brooks, III**
Immediate Past President and CEO, Joslin Diabetes Center

The Joslin Diabetes Center, located in Boston, is the world’s leading diabetes research, clinical care, and education organization.

Mr. Brooks is a well-known life sciences executive. He has co-founded four life sciences companies, including Insulet, a disruptive insulin delivery company. He was a principal of Healthcare Capital Consulting LLC. and founder of Prism Venture Partners, a venture capital firm.

Previously, Mr. Brooks was a general manager at Pfizer/Valleylab, where he was responsible for Pfizer’s Hospital Products Group’s minimally invasive surgery and new medical technologies business. As President/General Manager at Pfizer/Strato, he led the growth of a rapidly evolving vascular access medical device business. A native of Massachusetts, he holds an M.S. in Business and a B.B.A. cum laude from the University of Mass at Amherst and he is a Certified Public Accountant.

**Osama Hamdy, MD, PhD, FACE**
Medical Director of the Obesity Clinical Program at Joslin Diabetes Center

Dr. Hamdy is the Medical Director of the Obesity Clinical Program, Director of Inpatient Diabetes Management, clinical investigator and senior endocrinologist at Joslin Diabetes Center in Boston and Assistant Professor of Medicine at Harvard Medical School.

Dr. Hamdy completed his fellowship in Endocrinology, Diabetes and Metabolism at the University of Missouri and Harvard University. Dr. Hamdy is the author of the Harvard Health Publication “The Diabetes Breakthrough”, which outlines his experience with long-term diabetes weight management.

Dr. Hamdy was nominated by the Harvard Medical School for best mentor award of 2013 and was given the Compassionate Caregiver Award of the Kenneth Schwartz Center and the prestigious Michaela Modan award of the American Diabetes Association.

**Francis C. Manganaro**
Co-founder and CEO of NOVA Biomedical, an international medical device manufacturer.

He has been there for 30 years. NOVA maintains its headquarters in Waltham, MA. where it develops and manufactures advanced technology blood testing analyzers for hospitals and self-testing blood glucose meters for people with diabetes.

Nova is the largest privately owned in vitro diagnostics company in the U.S. and the third largest in the world.

He is a member of the Board of Directors of Mass MEDIC and has been a board member for Edmund Scientific, Global Medical Products and GMP Genetics and a member of the Scientific Advisory Board for the Johns Hopkins School of Medicine.

He attended Tufts University and has a B.S. in Biology.

**Ed Damiano, PhD**
Professor, Boston University BioMedical Engineering

Ed’s expertise and training are in mechanical and biomedical engineering, applied mechanics, and applied mathematics. When his son, David (now 16), was diagnosed with type 1 diabetes at 11 months of age, Ed became committed to a vision of building a bihormonal (insulin and glucagon) bionic pancreas that his son could take with him to college.

Ed, with his academic and industrial collaborators, has created and clinically tested a mobile version of their system in adults and children with Type 1 diabetes. They recently built the first fully integrated bihormonal bionic pancreas medical device that does not rely upon smartphone technology, which they call iLet™. Clinical trials are planned for 2016 with the final pivotal trial planned for early 2017.

**Jeff Valk**
CEO & Co-Founder of Admetsys

Admetsys was formed to explore the next generation of diabetes treatment technology: patient-adaptive learning algorithms, coupled with counterbalancing medication delivery. The union of these with automated blood glucose measurement and state-of-the-art visualization has created a transformative product, specifically tailored to the needs of the hospital and surgical care market. With the system having demonstrated excellent results in three separate FDA-approved clinical study series, the company is preparing for commercial readiness, anticipating the final clinical trials required for regulatory clearance. Jeff Valk, CEO and co-founder, is a seasoned leader in the technology arena, experienced in bringing to market highly technical products, and orchestrating teams of diverse backgrounds and skill sets.

**Presenters**

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**Program Co-Chairs**

**Richard O’Brien**
Principal, Nagog Hill Partners

**Shweta Humad Sharma**
Asst Dir, Bus Ops, Novartis Influenza

**Aaron Cohen**
GM, Argenta Resource Company

**Peter Madras, MD**
MDG President
MDG Boston

We would like to thank the hundreds of volunteers who help to make this organization a success.

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MDG Boston 2015-2016 Program Calendar

Forum Panels
(Location: Constant Contact Headquarters, Waltham, unless noted otherwise)

Sept 16 Diabetes Today: Discipline, Devices & Development
Co-Chairs: Dick O’Brien, Shweta Sharma, Aaron Cohen, Peter Madras

Oct 21 3D Printing Is Changing Everything
Co-Chairs: Bill McIlhargey, Peter Fuchs

Nov 4 Med Tech Product Development: From Concept to Commercialization
Co-Chairs: Paul Hartung, Keith Kowal

Dec 2 Smartphone apps to engage healthcare at home
Co-Chairs: Kevin Franck, Jeff Karg

Feb 3 Solutions Looking for Problems
Chair: Peter Madras

Mar 2 Nanotechnology in the Healthcare Industry
Co-Chairs: John O’Gara, Jim O’Connor

Apr 6 Med device start-ups and companies in China
Co-Chairs: Paul White, Grace Fu Palma

May 4 FDA’s Winchester Engineering and Analytical Center (WEAC)
Co-Chairs: Hank Allard, Rich Nadeau

June 1 Surgical Navigation Systems for Image Guided Surgery
Chair: Randy Chinnock

Member News
MDG welcomes these new members:

- Bruce Anderson
- Barry Braunstein
- Carmel Denis
- Sue Finneran
- Donna Lagasse
- Hayley Lough
- Peter Vandermeulen

In addition, we welcome back those who have renewed their MDG membership:

- Heinz Bachmann
- Roger Begin
- Edward Berger
- W. Burke Bero
- Tom Bishop
- Ernest Carabillo
- Scott Cook
- Betsy Goodrich
- Jonathan Kateman
- Tony McCook
- Birgit Mohney
- Kevin Riley

Explore the NEW MDG Boston website at www.mdgboston.org

About MDG Boston
MDG is the professional association for career building, knowledge acquisition and mutual support for New England medical technology professionals.

MDG sponsors Forums, Networking, SIGs (Special Interest Groups), Workshops and Special Events where diverse industry leaders can share their experience and knowledge as presenters and one-on-one.