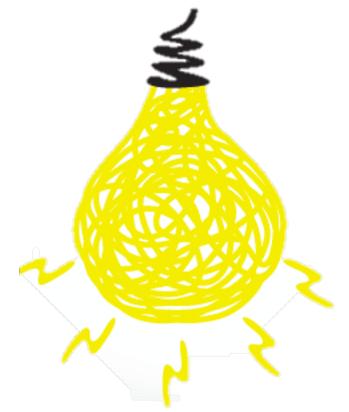


# 2019 Clinical Innovation Symposium

March 19, 2019



Purpose: To foster a culture of innovation across the greater community at our School and Academic Health Centers, and encourage collaboration to improve care for our patients

Vision: To celebrate and inspire work that delivers new value to our patients, our institutions, and our learners across our community



With  
**Michael Howell MD**  
Chief Clinical Strategist  
Google Research  
Founding Director  
Center for Healthcare  
Delivery and Innovation  
University of Chicago



# Fusion2019

DRIVING INNOVATION THROUGH PARTNERSHIPS



Join us at the event on  
3.19.19

8:00 – 9:00 a.m. | **INNOVATION GRAND ROUNDS KEYNOTE PRESENTATION**

*What should healthcare providers know about machine learning and artificial intelligence?*



**Michael Howell, MD, MPH**

*Chief Clinical Strategist and Principal Scientist  
Google AI*

Michael D. Howell, MD, MPH, is Chief Clinical Strategist and Principal Scientist at Google AI. An intensivist, he was previously Chief Quality Officer and founding director of the Center for Healthcare Delivery Science at the University of Chicago Medicine. Prior to that, he spent more than a decade at Harvard and the Beth Israel Deaconess Medical Center in various roles.

**WORKSHOPS AND INNOVATION EXCHANGE ►**

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9:15 – 10:45 a.m.

## Workshop 1 — INTRO TO DESIGN THINKING

Learn how to use design thinking to help frame the right problem, consider a range of ideas based on empathy, and quickly test a low-resolution prototype to get feedback. Led by the UW-Milwaukee Lubar School of Business and the Robert D. and Patricia E. Kern Institute for the Transformation of Medical Education.



11:00 a.m. – 12:00 p.m.

## Workshop 2 — ETHICAL CONSIDERATIONS FOR ARTIFICIAL INTELLIGENCE (AI)

Learn from a diverse panel of faculty at Medical College of Wisconsin about how artificial intelligence (AI) is playing and will continue to play a role in the provision of research and clinical care. Led by members of the Program for Medicine and Artificial Intelligence Research (MARS) at MCW.



11:00 a.m. – 12:00 p.m.

## Workshop 3 — INNOVATIVE WAYS TO APPROACH SOCIAL DETERMINANTS

Learn from a panel of community leaders about innovative ways to meet health and social needs of our neighborhoods. Led by members of Children's Hospital of Wisconsin and Milwaukee Healthcare Partnership.



11:30 a.m. – 1:30 p.m.

## INNOVATION EXCHANGE

A gallery of submitted work promoting innovation and improvement in healthcare from the Froedtert Health, Medical College of Wisconsin, and Children's Hospital of Wisconsin community. The following topics will be showcased:

- Enhanced Care and Hospital Discharge Programs
- Physician Empathy Training Program
- Share the Care Team Building Retreats
- Project CORE: Improving the Referral Experience
- Down Syndrome Clinical Needs Assessment: Managing the pediatric to adult care transition
- Innovative Techniques to Advance Genomic Sciences and Precision Medicine
- Using Sequencing Technology and Bioinformatic Integrative Techniques to Spark Innovative Discoveries and Academic Research
- Pressure injury prevention trial for spine and lateral-positioned patients during surgical procedures in the operating room
- Using internet-based cognitive behavioral therapy (iCBT) to treat depression with better access at lower cost
- Using a web-based E.H.R. integrated application to facilitate a personal connection between the patient and healthcare team
- Empowering Families Through Health Information Technology in a Pediatric ICU
- Using a store-and-forward telemedicine solution (Infectious Diseases E-Consult System, or IDECS) within our electronic health record system to improve access to expert opinion in infectious diseases
- Using Therapeutic Accelerator Program (TAP) to approach a drug development
- Using the Epic Dose Tracking module to optimize pharmacy operations
- Sharing, interpretation, and use of open data to address issues around equity, the social determinants, and ethical use of algorithms and AI
- Improved communication and early recognition system with Rothman Index
- Improved workflows with use of telehospitalist cross-coverage
- Direct consumer-based online scheduling for all of Pediatric Primary Care
- Using Proteus Discover®, an FDA-cleared digital medicine program, to provide objective data on medication adherence
- Improving patient access through the use of eConsults
- Creating an asynchronous virtual book club to engage the campus community and beyond in an academically focused reading experience
- Establishing a comprehensive set of tools that will investigate cancer mechanisms through molecular modeling and simulation, biophysical phenotyping, and defining cellular mechanisms through the Precision Medicine Simulation Unit
- A blueprint for a new Master of Science in Interprofessional Healthcare Education
- Increasing productivity with movement of standard processes from paper to electronic
- Translating Medical Reports for Patients Using Natural Language Processing
- Improving diabetes care through teams and technology using a population health approach to achieve reductions in hemoglobin A1c and costs of care for diabetes across a health system
- Using Froedtert Finder, a digital wayfinding app, to help patients arrive to their appointment on time
- Using VR to help reduce anxiety for breast cancer patients

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