Delivering Healthcare in the Age of A.I. and Connected Devices

February 13 - 14, 2018 • San Francisco, CA • Moscone South Convention Center

Cambridge Healthtech Institute & Bio-IT World’s Inaugural

#HealthcareIOT

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Keynote Speakers and Featured Panel Moderators:

William Morris, M.D.,
Associate Chief Medical Information Officer, Cleveland Clinic

Suzanne B. Schwartz, M.D., MBA,
Associate Director for Science and Strategic Partnerships, Office of the Center Director, CDRH, US FDA

Charles Jaffe, M.D., Ph.D.,
CEO, Health Level 7

Micki Tripathi, Ph.D., MPP,
President and CEO, Massachusetts eHealth Initiative

Blackford Middleton, M.D., MPH,
Chief Informatics & Innovation Officer, Apervita Inc.

Evon Holladay,
Executive in Residence, Analytics, Denver University

Michael Steinberg, M.D.,
Medical Director, Medical Informatics, Lehigh Valley Health Network

Uday Ali Pabrai,
CEO, Compliance, ecfirst

40 Speakers and Panelists
3 Keynotes
4 Use Case Examples
6 Discussion Panels on:
- People, Habits and Behaviors
- Medical Devices and Wearables
- Apps, Chatbots and Voice Commands
- Standards and Interoperability
- Privacy and Security
- Sensors, Data Integration and Predictive Analytics

IOTTechSummit.com
The healthcare industry is at the advent of a digital evolution, spurred by a growing community of web-enabled products and services including the Cloud, smart and connected devices, and a more health-conscious and tech-savvy population. According to Frost & Sullivan, the internet of medical things is expected to grow at CAGR of 26.2% to reach $72 billion by 2021. Sensor, medical device, fitness and wearable manufacturers, data analytics, cloud and data warehousing, cybersecurity and high-tech companies, hospitals and physician networks, health plans and payers, as well as regulatory and standards bodies are all excited with the potential that healthcare IoT brings, but are equally concerned about the challenges in privacy, cybersecurity, data interoperability, and patient engagement that come along with it.

Cambridge Healthtech Institute's Inaugural Healthcare Internet of Things aims to bring together the different constituents and stakeholders within the value chain to engage in interactive discussion and exemplify the healthcare industry's collaborative efforts to deliver value-based healthcare using A.I. and IoT.

2:00 Opening Presentation: Healthcare Internet of Things’ Breadth of Disruption
Sidharth (Sid) Shah, Industry Analyst, Visionary Healthcare Program, Frost & Sullivan

Internet of Things (IoT) is disrupting the healthcare space in a known – but the industry is only partially aware of the advances, the potential and benefits. In other words, the extent of this disruption is more often than not, underestimated. The connected IoT ecosystem of sensors and devices serves 5 distinct application areas – the body, the home, the community, the clinic and the hospital. Are we truly aware of how healthcare IoT serves all these areas?

2:25 KEYNOTE PRESENTATION: People, Process and Technology: The Strategic Alignment of IoT Transformation
William Morris, M.D., Associate Chief Medical Information Officer, Cleveland Clinic

2:50 PANEL DISCUSSION: Delivering Healthcare in the Age of Big Data, A.I. and IoT – Toward Digitized, Value-Based Healthcare System
- Establishing the business case, value and reimbursement structure
- How can internet of things help transform fee-for-service system to value-based healthcare system?
- How does IoT impact clinical outcomes and reduce healthcare cost?

Moderator:
Micky Tripathi, Ph.D., MPP, President and CEO, Massachusetts eHealth Collaborative
Panelists:
Eren Bali, CEO, Carbon Health
William Morris, M.D., Associate Chief Medical Information Officer, Cleveland Clinic
Anand Subramony, Ph.D., Vice President, New Product Technologies, MedImmune

3:00 PANEL DISCUSSION: How does IoT impact clinical outcomes and reduce healthcare costs?

3:20 PANEL DISCUSSION: How can internet of things help transform fee-for-service system to value-based healthcare system?

3:45 Refreshment Break with Exhibit and Poster Viewing

4:20 PANEL DISCUSSION: People, Habits and Behaviors
- Creating value for all consumers, not just when they become patients
- Engaging individuals and social networks in health, wellness and care
- Improving care and lowering cost – short and long term
- Reducing healthcare confusion for patients, advocates, providers, and payers
- Addressing poor clinical performance from poor patient engagement
- Creating and rewarding healthy habits
- Engaging younger generations in health

Co-Moderators:
Evan Holladay, Executive in Residence, Analytics, Denver University
Michael Sheinberg, M.D., Medical Director, Medical Informatics, Lehigh Valley Health Network
Panelists:
Adam Atherly, Ph.D., Professor, Health Systems, Management and Policy, University of Colorado
Robert Denson, CIO, CORHIO
Noa Ghersin, Analyst, Digital Health and Wellness Intelligence, Lux Research
Christopher Jones, Executive Director, Department of Human Services, North Dakota
Office of the Governor

5:20 PANEL DISCUSSION: Disruptive Technologies in Healthcare – Apps, Chatbots and Voice Commands
- The A.I. nurse – replacing a live healthcare professional in managing a chronic disease patient and allowing for infinitely scalable, personalized care for every patient in need
- Chatbots and voice commands as new healthcare delivery platforms
- Cybersecurity challenges in mobile apps
- HIPAA compliance – How should these apps be monitored for HIPAA compliance? Are consumers aware of the cybersecurity risks?

Moderator:
Tatyana Kanzaveli, CEO, Open Health Network
Panelists:
Julia Hu, CEO & Founder, Lark Technologies, Inc.
Dave Skibinski, CEO & Co-Founder, SnapMD

6:10 Close of Day One
9:10 PANEL DISCUSSION: Standards and Interoperability
To date, true interoperability has not been achieved even when the transport is standardized, the data and meta formats are well defined and agreed upon, and the clinical models mean the same thing to everyone. Research data is even more difficult because the meanings often change. The FDA is uncertain what they want because after years of trying, the Agency has not been able to produce any guidance that works.

In the open marketplace, which our economy embraces, marketing usually beats technology. Almost always, the mission statement for publicly traded companies does not say, “Do the right thing.” It says, “Be the best at what you do and deliver value to the shareholders”, but nothing about the right thing. Too often, we confuse doing the thing right with doing the right thing.

No one has shown an ROI for interoperability in healthcare. With Meaningful Use, HHS tried to regulate interoperability, and look how that turned out. Only patients can make a real business case for interoperability, and, with few memorable exceptions, they are largely silent.

In this panel, we will focus on some of the challenges to interoperability, and suggest some solutions that are making real progress toward overcoming them.

**Moderator:** Charles Jaffe, M.D., Ph.D., CEO, Health Level 7

**Panelists:**
- Russell Leftwich, M.D., Senior Clinical Advisor, Interoperability, InterSystems
- Dave Levin, M.D., CMO, Sansorah Health
- Shahid Shah, MSc, Founder, Netspective
- Kees van Bochove, MSc, CEO, The Hyve B.V.

10:10 Coffee Break with Exhibit and Poster Viewing

10:40 PANEL DISCUSSION: Medical Device Cybersecurity: Through the FDA Lens
**Suzanne B. Schwartz, M.D., MBA, Associate Director for Science and Strategic Partnerships, Office of the Center Director, Center for Devices & Radiological Health, US FDA**

11:40 How Can the Internet of Things (IoT) Help Us Challenge the Invisible Epidemic of Autoimmunity?
**Bonnie Feldman, D.D.S., MBA, Chief Growth Officer, DrBonnie360/Your Autoimmunity Connection**

Harnessing our culture of ubiquitous connectivity and new scientific understanding through data and digital tools, we can now create better self-management tools for complex chronic diseases, such as the 100+ kinds of autoimmune disease. Learn how tools being developed to connect with the IoT are helping to empower patients, support practices, gather data, develop resources and enable new frameworks to help autoimmune patients improve their day-to-day lives.

12:05 pm Implementing a Population Health Management Platform in Frail and Vulnerable Population
**Karl Hess, Senior Vice President, Population Health, Collain Healthcare, Inc.**

This session will be purposed to share the story behind a successful, real-world implementation of a new and robust population health management platform, from initial design and planning, through implementation and ongoing engagement, to tracking outcomes and determining return on investment in an elderly population set. The session will also cover such key topics as the underlying data and technology strategies, privacy and security, choosing the right partners, how to leverage best-practice digital health offerings, and creating a PHM ecosystem across numerous stakeholders.

12:30 Luncheon Presentation (Sponsorship Opportunity Available)

**OVERCOMING CHALLENGES IN PRIVACY, SECURITY, INTEGRATION AND ANALYTICS**

1:40 Chairperson’s Remarks
**Uday Ali Pabrai, CEO, Compliance, ecfirst**

1:45 PANEL DISCUSSION: IoT Privacy and Security – Challenges & Strategies
- Vulnerabilities in IoT networks – How IoT devices can be compromised
- What steps can you take to mitigate the risk of a cyberattack?
- Maintaining patient privacy and seeking consent for sharing data
- Legalities, permissions and rules on data-sharing
- HIPAA privacy and security requirements for apps, mobile devices, and voice technologies
- Ensuring secure encryption of data from non-regulated devices
- How to integrate/architect “non-regulated/non-covered data” with regulated medical records?
- Blockchain technology/distributed ledger as applied to health records and data sharing – Decentralizing the healthcare network

**Moderator:**
- Uday Ali Pabrai, CEO, Compliance, ecfirst

**Panelists:**
- B.M. Chittaranjan, Cognitive Health LLC
- Joseph Granneman, CEO & Principal, Illumination.io
- Shahid Shah, MSc, Founder, Netspective
- James Slaughter, Director of Cyber Security, Wolf Den Associates

2:45 Improving Blood Pressure Management through Patient-Reported Data
**Jennifer A. Schlegel, MSN RN, Senior Clinical Business Intelligence Analyst, Enterprise Analytics, Lehigh Valley Health Network**

Consumers are taking a greater role in their healthcare through the advent of technology. The explosion of consumer devices to collect clinical data as well as the growth of patient portals into their medical record, will drive the need to integrate data into the electronic record as part of ongoing care. I’ll present a case-study for a pilot program designed to integrate patient data into our electronic health record.

3:10 Refreshment Break with Exhibit and Poster Viewing
3:45 Reinventing Rehabilitation Delivery Using Big Data and Mobile Technology
Veera Anantha, Ph.D., Co-Founder & COO, The Learning Corporation
People who suffer a stroke, brain injury, onset of dementia or learning disorders often have trouble with learning, cognition, speech, and language. Traditionally, their rehabilitation is long-term, cumbersome and expensive. We demonstrate a software platform that provides remote rehabilitation with or without a clinician’s assistance and is accessible to the patient 24/7. The program uses smart algorithms to deliver and monitor therapy, monitors patient engagement and uses machine learning to provide personalized rehabilitation. It has already delivered over 40 million therapy exercises to patients across the US and 10 countries globally.

4:10 CLOSING PANEL DISCUSSION: Sensors, Data Integration and Predictive Analytics
- Sensors in transplantables, transdermal devices, electrochemical biosensors, medical devices and wearables
- Improving clinical outcomes using data integrated from sensors in various med devices and wearables
- Which devices/sensors are most useful from a clinical perspective? Which are fads?
- Algorithms to passively aggregate, analyze and predict events – focusing on preventative and proactive care
- Providing cloud-based analytics across sites of care and data sources

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Co-Moderators:
Blackford Middleton, M.D., MPH, MSc, Chief Informatics & Innovation Officer, Apervita, Inc.
Joshua Ray Windmiller, Ph.D., Founder & CTO, BioInq, Inc.

Panelists:
Bill Fox, J.D., MA, Global CTO, Healthcare and Life Sciences, MarkLogic
Christopher Hartshorn, Ph.D., Program Director, Office of Cancer Nanotechnology Program (OCNR), Center for Strategic Scientific Initiatives (CSSI), National Cancer Institute (NCI), National Institutes of Health (NIH)
Vipul Kashyap, Ph.D., Director, Clinical Information Systems, Northwell Health
Dominique Morgan-Solomon, MPH, President, Morgan-Solomon Consulting

5:10 Close of Conference

Save 15% when you register for back-to-back executive healthcare conferences in San Francisco:
Maximize your time in San Francisco by attending Cambridge Healthtech Institute’s Healthcare IOT and Bridge to Pop Health. Registrants of both conferences save 15%.
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Main Conference Venue:
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747 Howard Street
San Francisco, CA 94103
www.moscone.com

Host Hotel:
Hilton San Francisco Union Square
333 O’Farrell Street
San Francisco, CA 94102
Phone: 415-771-1400

Discounted Room Rate: $249 s/d
Discounted Cut-off Date: January 15, 2018

For reservations and additional travel information please visit the hotel and travel page IOTTechSummit.com

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**Distinguished Faculty**

- **Ed Abrams**, Vice President, Enterprise IoT, Samsung
- **Veera Anantha, Ph.D.**, Co-Founder & COO, The Learning Corporation
- **Adam Atherly, Ph.D.**, Professor, Health Systems, Management and Policy, University of Colorado
- **Regina Au, Principal**, New Product Planning & Strategic Marketing, BioMarketing Insight
- **Eren Bali**, CEO, Carbon Health
- **BM Chittaranjan**, Cognitive Health LLC
- **Robert Denson**, CTO, Open Health Network
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- **Karl Hess**, Senior Vice President, Population Health, Collin Healthcare - An LG CNS Company
- **Julia Hu**, Executive in Residence, Analytics, Denver University
- **Charles Jaffe, M.D., Ph.D.**, CEO, Health Level 7
- **Christopher Jones**, Executive Director, Department of Human Services, North Dakota Office of the Governor
- **Tatyana Kanzaveli**, CEO, Open Health Network
- **Vipul Kashyap, Ph.D.**, Director, Clinical Information Systems, Northwell Health (pending confirmation)
- **Russell Leftwich, M.D.**, Senior Clinical Advisor, Interoperability, InterSystems
- **Dave Levin, M.D.**, CMO, Sansoro Health
- **Blackford Middleton, M.D., MPH**, MSc, Chief Informatics & Innovation Officer, Apervita, Inc.
- **Dominique Morgan-Solomon**, MPH, President, Morgan-Solomon Consulting
- **William Morris, M.D.**, Associate Chief Medical Information Officer, Cleveland Clinic
- **Uday Ali Padrai**, CEO, Compliance, ecfirst
- **Jennifer A. Schlegel, MSN RN**, Postdoctoral Scientist, Data Science & Analytics, Partners Connected Health Innovation, Harvard Medical School
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- **Joshua Ray Windmiller, Ph.D.**, Founder & CTO, Bioling, Inc.

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**Sponsorship & Exhibit Information**

CHI offers comprehensive sponsorship packages which include presentation opportunities, exhibit space and branding, as well as the use of the pre- and post-show delegate lists. Sponsorship allows you to achieve your objectives before, during, and long after the event. Any sponsorship can be customized to meet your company’s needs and budget. Signing on earlier will allow you to maximize exposure to qualified decision-makers.

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