

3rd Annual

Health Care Predictive Analytics Summit

Improve Efficiencies, Segment Populations, Better Utilize
Resources, and Improve Population Health through Data Analysis

OCTOBER 18-19, 2016 | HILTON BOSTON BACK BAY | BOSTON, MA

FEATURED SPEAKERS:



Madeleine Biondolillo, MD
Vice President,
Population Health Management
**CONNECTICUT HOSPITAL
ASSOCIATION**



Danyal Ibrahim, MD, MPH
Chief Data and
Analytics Officer,
Chief, Toxicology
**SAINT FRANCIS HOSPITAL
AND MEDICAL CENTER**



David Kaelber, MD, PhD, MPH
Chief Medical Informatics
Officer, Vice President,
Health Informatics
**THE METROHEALTH
SYSTEM**



Terri Steinberg, MD, MBA
Chief Health Informatics
Officer, Vice President,
Population Health
**CHRISTIANA CARE
HEALTH SYSTEM**



Andrew Sorenson
Director, Population Health
Analytics and
Decision Support
**INTERMOUNTAIN
HEALTHCARE**



Jeffrey Young
Director, Informatics
CIGNA

"I enjoyed hearing from other sides of the
analytics spectrum. I appreciated hearing how
others tackle problems."

— Teresa Conway, RN, MSN, Clinical Analyst, INTERMOUNTAIN HEALTHCARE

NEW FOR 2016:

- Discuss a disruptive team redesign to move toward value analytics
- Promote analytics as part of the organizational culture
- Identify clinical team leaders who can help engage providers in the use of analytics
- Use analytics to communicate program effectiveness and influence decision makers
- Explore strategies for predicting and preventing hospital readmissions
- Understand the additional data that can and should be incorporated into predictive analytics, including sensor and community data

CME Accreditation

Receive up to 12.0 AMA
PRA Category 1 credits™
See inside for details

Educational Underwriter: **AYASDI**

Partner: **D Healthcare DIVE**



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WHO SHOULD ATTEND:

FROM HOSPITALS, HEALTH SYSTEMS,
AND HEALTH PLANS

- Chief Information Officers
- Chief Analytics Officers
- Chief Medical Information Officers
- Chief Nursing Information Officers
- Chief Medical Officers
- Chief Nursing Officers
- Chief Data Officers/Scientists
- Chief Technology Officers
- Vice Presidents and Directors of:
 - Analytics
 - Predictive Analytics
 - Data Analytics
 - Business Intelligence
 - Corporate Analytics
 - Strategic Planning
 - Informatics
 - Network Performance
 - Strategy and Analytics
 - Information Management

THIS CONFERENCE ALSO BENEFITS:

- Data Analytics Solutions Providers
- Clinical Documentation Solutions Providers
- Consulting Companies

With the increasing amount of data on health care consumers through claims, clinical, and other data sources, there is a constant buzz about Big Data and how it is changing the industry. However, challenges remain around how to best utilize this data and translate it into information that can assist with improving outcomes, lowering costs, increasing workflow efficiencies, and managing the health of populations.

The 3rd Annual Health Care Predictive Analytics Summit brings together hospitals, health systems, health plans, and other health care organizations to discuss best practices for accessing, sharing, and analyzing data to meet those goals.

Join thought leaders and peers to explore the current state of predictive analytics in health care and the role analytics plays in the future of health care and population health management.

Educational Underwriter:

AYASDI

Associate Sponsors:



Education Provider:



This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical education through the joint providership of the American Board of Quality Assurance and Utilization Review Physicians, Inc. (ABQAUWP) and World Congress. ABQAUWP is accredited by the ACCME to provide continuing medical education for physicians.

The American Board of Quality Assurance and Utilization Review Physicians, Inc. designates this live activity for a maximum of **12.0 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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CAPTURE A TRUE ROI THROUGH SPONSORSHIP OF THE FOLLOWING:

Agenda Thought Leadership • Networking Cocktail Reception • Breakfast Symposia • Luncheon • Executive Networking Breaks

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To register, please visit: www.worldcongress.com/PredictiveAnalytics • Call: 800-767-9499 • Fax: 781-939-2543 • email: wcreg@worldcongress.com

7:15	Summit Registration and Morning Coffee
8:15	Chairperson's Welcome and Opening Remarks  David Kaelber, MD, PhD, MPH Chief Medical Informatics Officer, Vice President, Health Informatics THE METROHEALTH SYSTEM
8:30	Break Data Siloes – Discuss a Disruptive Team Redesign to Move to Value Analytics The need for analytics is changing, which is largely driven by the shift in focus from volume to value. To keep up with the demands, health care organizations need to develop new analytics teams, those that are multi-disciplinary and bring together siloes. • Discuss the key players that should be involved in the analytics team, including those that traditionally might not play a role • Explore ways to fit the analytics team into the operational strategy • Promote analytics as part of the organizational culture  Danyal Ibrahim, MD, MPH Chief Data and Analytics Officer, Chief, Toxicology SAINT FRANCIS HOSPITAL AND MEDICAL CENTER
9:15	Case Study: Implement Standardized Regression-Based Predictive Models When executed correctly, predictive analytics programs can reduce costs, improve patient outcomes, and increase operational efficiency. Hear how one health system developed a framework for implementing regression-based models that facilitate scalability, flexibility, and standardization of predictive modeling efforts across the organization. • Evaluate a framework for developing a methodology and architecture for a regression-based predictive analytics platform designed to meet specific challenges of a health care organization • Ensure the integration of predictive analytics software with the enterprise data warehouse • Identify key components of NorthShore's governance process for analytics that can be successfully implemented at other health care organizations  Daniel Chertok, PhD Senior Data Scientist NORTHSHORE UNIVERSITY HEALTHSYSTEM
10:00	Networking and Refreshment Break
10:30	Promote Provider Buy-in of Use of Predictive Analytics in Decision Making Even after predictive analytics programs are approved by decision makers within the organization, there is still the challenge of influencing providers' opinions of the importance of using analytics in providing care to patients. • Discuss how the knowledge of population health management and analytics can be better adopted through collaboration with clinicians • Explore best practices for communicating where data comes from and how analytics were conducted to help physicians, nurse practitioners, and other providers understand the importance and accuracy of information • Communicate the ways to operationalize analytics to practicing clinicians • Identify clinical team leaders who can help influence the more hesitant providers  Andrew Sorenson Director, Population Health Analytics and Decision Support INTERMOUNTAIN HEALTHCARE
11:15	Case Study: Use Analytics to Communicate Program Effectiveness and Influence Decision Makers With many competing priorities and needs throughout a health care organization, it is difficult to convince decision makers and administrators of the value of certain programs in order to increase funding and resources allocated. Hear how one organization used analytics and predictions to get buy-in for a new marketing approach and increase revenue for the organization, and use this insight to make a case for marketing, analytics, or any program within your organization. • Illustrate the value of internal programs to the broader goals of the organization • Build consensus and support for new ideas • Communicate the internal capabilities and predict resources needed for necessary outcomes  Matthias Krebs, MBA Director, Insights and Analytics, Marketing and Communications NOVANT HEALTH
12:00	Luncheon

1:00

Case Study: Utilize Big Data and Predictive Analytics to Drive Clinical Quality Improvement Initiatives

The recent availability of high throughput Big Data approaches to collect and curate structured and unstructured data coupled with high throughput integrated analytic solutions affords the promise of incorporating large data sets in near real time fashion and thereby bringing predictive models with improved accuracy to the bedside. Further, such early identification of patients at risk may inform and drive timely delivery of targeted preventive or therapeutic interventions.

- Explore a framework for the use of Big Data for clinical quality improvement initiatives
- Discuss the advantages of using dynamic models that utilize baseline clinical data and patient level information acquired in real time (structured and unstructured) as a component of clinical care
- Determine the incremental benefit to model accuracy of multiple data sources and variable structures within the context of kidney transplantation



Patrick D. Mauldin, PhD
Director, Health Systems Research and Policy
MEDICAL UNIVERSITY OF SOUTH CAROLINA



Titte R. Srinivas, MD
Transplant Nephrologist
MEDICAL UNIVERSITY OF SOUTH CAROLINA

1:45

Stratify and Segment Populations to Better Target Care

The newest focus of the health care industry is looking at populations to improve health outcomes. Rather than looking at the entire consumer population, organizations must segment populations to reveal subgroups to create targeted care and best utilize resources.

- Determine strategies to best segment populations
- Consider stratification methodologies, e.g., resource consumption, socioeconomic, predictive, etc.
- Deepen exploration by sub-setting initial stratification
- Hear examples of a number of stratifications



Robert W. Gladden
CEO and Owner
FRONT EDGE ANALYTICS, LLC



Manjit "Mike" Randhawa, MD, MPH
Clinical Research Informatics Manager
INLAND EMPIRE HEALTH PLAN

2:30

Manage Costs for End-of-Life Care through Predictive Modeling

End-of-life care is an issue of growing importance in health care. Patients in the last six months of life account for about one-third of Medicare's budget, and patients are often subject to non-beneficial care in their final months of life that is burdensome and costly

- Discuss development of a predictive model to identify some of these patients
- Consider community-based population health approaches that can help improve quality of life for this patient population



Ian Duncan
Fellow of the Society of Actuaries, Adjunct Professor, Dept. of Statistics & Applied Probability
UNIVERSITY OF CALIFORNIA SANTA BARBARA

3:15

Networking and Refreshment Break

3:45

Prevent Hospital Readmissions to Reduce Costs and Improve Outcomes

Hospital readmissions are extremely costly for the health care industry. Preventing readmissions not only saves the health care industry approximately \$400 million, but it also means that those in need of emergency services will have better access to emergency care.

- Explore strategies for predicting those at high risk for hospital readmissions
- Reach high risk patients after discharge to prevent the readmission



Terri Steinberg, MD, MBA
Chief Health Informatics Officer, Vice President, Population Health
CHRISTIANA CARE HEALTH SYSTEM

4:30

Leverage Predictive and Prescriptive Analytics to Drive Workforce Planning and Outcomes

Predictive analytics processes are not only helpful in predicting consumer behavior to improve outcomes; they are also useful in determining staffing needs, predicting turnover, and discovering patient experiences.

- Identify staffing needs through predictive analytics to ensure appropriate caregivers are available through organizational changes and growth
- Utilize a flight risk model to proactively identify "at-risk" caregivers and employ retention and engagement strategies
- Understand what people and productivity variables drive turnover and patient experience and devise a plan to operationalize the optimum thresholds



Chirag Padalia
Director, Workforce Strategy and Analytics
AURORA HEALTH CARE

5:15

Cocktail and Networking Reception

8:00 Morning Coffee

8:30 Chairperson's Welcome and Opening Remarks



David Kaelber, MD, PhD, MPH
Chief Medical Informatics Officer, Vice President, Health Informatics
THE METROHEALTH SYSTEM

8:45 Increase Consumer Engagement to Improve Health Outcomes

Given the association between lifestyle factors and chronic disease, a large focus of health care has shifted to prevention, self-management of disease, wellness, and behavior change. In order to improve the health of consumers, they must first be engaged in their care and motivated to make adjustments in their lifestyle.

- Use predictive analytics to determine which patients are likely to engage in their care and benefit from interventions
- Determine best practices for using data to identify motivators and values among consumers
- Share data with consumers about what results they can expect by making adjustments to their lifestyle



Jeffrey Young
Director, Informatics
CIGNA

9:30 Clinical Optimization using Machine Intelligence

Analysis of very large, complex clinical data sets provides an opportunity for advancing quality of care, patient safety, efficiency of care and scientific insight. Recently created is a new approach of unsupervised learning called "machine intelligence" which combines machine learning and topological data analysis (TDA). This unbiased approach to pattern identification unlocks insight into practice variation for clinical pathways, denials management and interpretation of genetics for precision medicine. Hear case studies focused on total knee replacement inpatient care optimization and genetic subtyping of a population of type 2 diabetics.

- Describe "machine intelligence" combining machine learning and topological data analysis (TDA) for complex data.
- Compare the approach of "unsupervised learning" with traditional, hypothesis-driven inquiry.
- Demonstrate the use of machine intelligence for total knee replacement and other inpatient surgical pathways in a multi-hospital system.
- Visualize "data networks" for clinical discovery of genetic differences within a population of patients with type 2 diabetes.



F. X. Campion, MD, FACP
Chief Medical Officer
AYASDI, INC.

10:15 Networking and Refreshment Break

10:45 Examine the Lifecycle of Predictive Analytics Programs

Sustainability is an essential part of predictive analytics programs; however, a majority of existing models are created once and put into use for a long time without a proper life cycle plan. In addition, dynamism of the environment can turn working models into obsolete solutions. A successful implementation of predictive models should result in reducing the impact of independent factors – which will mandate model maintenance – and should follow the standard life cycle of any model that includes model, measure, assess, and maintain steps.

- Design a proper lifecycle during initial planning
- Explore trigger-based vs. time-bound reassessment plans
- Understand the difference between reprocessing and remodeling
- Create platform specifications for easy transformation of predictive models



Omid Shabestari, MD, PhD
Director, Health Analytics, **CARILION CLINIC**
Assistant Professor, Health Informatics, **UNIVERSITY OF TORONTO, CANADA**

11:30 Closing Panel: Explore the Future of Predictive Analytics

Data and analytics in health care originally looked at clinical or claims data – often focusing on only structured data, rather than the more encompassing unstructured data. With the introduction of new technologies and the growing realization that other consumer data is as important as health care specific data in understanding the consumer, health care organizations are looking to incorporate additional information in their analyses and processes.

- Understand the additional data that can and should be incorporated into predictive analytics, including sensor and community data
- Discover how to access and utilize additional information
- Discuss what is next in predictive analytics and where the field is going in the years to come



Robert W. Gladden
CEO and Owner
FRONT EDGE ANALYTICS, LLC



David Kaelber, MD, PhD, MPH
Chief Medical Informatics Officer, Vice President, Health Informatics
THE METROHEALTH SYSTEM



Omid Shabestari, MD, PhD
Director, Health Analytics, Carilion Clinic
Assistant Professor, **HEALTH INFORMATICS,**
UNIVERSITY OF TORONTO, CANA

12:15 Close of Summit

Want even more content? Stay late and join the post-conference workshop where we take a broader look and explore best practices for utilizing analytics in population health initiatives.

POST CONFERENCE WORKSHOP • 1:30 - 4:30

Explore the Role of Data Analytics in the Shift to Value-Based Care and Population Health

As the health care industry continues to change and value-based payments become the new reimbursement model, there is an increased focus on population health management to ensure quality care and improved outcomes. This new focus requires collaboration and coordination across many departments and evolution of an organizations' analytics strategy.

- Understand the population health approach
 - Identify the advantages of focusing on population health management
 - Explore the challenges of adopting a population health approach before the full shift from fee-for-service occurs
- Determine how population health analytics can be utilized to improve outcomes
 - Use population data to identify high risk consumers
 - Leverage population health analytics to determine utilization of services related to chronic conditions and drive positive outcomes
 - Understand how predictive analytics fit within the population health analytics approach
- Collaborate with organizations across the health care industry to improve the success of population health initiatives
 - Identify the biggest gaps in available data
 - Determine which organizations can alleviate this missing information and who best to partner with
 - Discuss opportunities and barriers for sharing data across organizations



Madeleine Biondolillo, MD
Vice President, Population Health Management
CONNECTICUT HOSPITAL ASSOCIATION



Aymen Elfiky, MD, MPH, MSc
Senior Attending Physician
**DANA FARBER CANCER INSTITUTE,
BRIGHAM AND WOMEN'S HOSPITAL**



The Workshop
is not part
of the live or
archived
webcast

There is a 15-minute break from
2:45 pm - 3:00 pm

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TOP REASONS TO ATTEND:

- Promote analytics as part of the organizational culture
- Increase provider buy-in of use of predictive analytics in clinical decision making
- Determine strategies to best segment populations
- Explore strategies for predicting and preventing hospital readmissions
- Stay for extra content and discover the value of population health analytics during the post-conference workshop