

Formerly Big Data in Healthcare Summit



Advanced Healthcare Analytics Summit 2016

Improving Value, Insight & Outcomes from Data

May 24-26 2016 | Boston, USA

Improve Clinical Care & Operations Using Big Data, Data Science & Effective Analytics To Achieve a Personalized & Value-Based Healthcare Paradigm



C. Martin Harris
Cleveland Clinic



Jason Jones
Kaiser Permanente



Vik Wadhvani
Geisinger Health System



Frank Song
Blue Cross Blue Shield



Ravi Shanbhag
UnitedHealth Group



Valmeek Kudesia
Boston VA Healthcare System

Lead Partner:



Program Partners:

AYASDI



advancedhealthcare-analytics.com

Tel: +1 212 537 5898 | Email: info@hansonwade.com

Researched & developed by:



Welcome to the New Face of Advanced Data Analytics in Healthcare

Following two years of Big Data in Healthcare, extract maximum value from your data at Advanced Healthcare Analytics 2016

In a new analytical paradigm spurred on by a fundamental need to extract meaningful value from healthcare data, the **3rd Annual Advanced Healthcare Analytics Summit 2016** (formerly Big Data in Healthcare) will help healthcare organizations improve decision making to enhance patient experience and outcomes in a cost effective and value based manner.

Discover when and how to leverage effective analytics to improve clinical care, operations, and performance management. Ensure decision makers have the insight to integrate and drive tangible value from data in order to place correct and actionable insights in the hands of caregivers and patients alike.

This is a critical time for healthcare providers, payers and hospitals who face unprecedented risk and a demand to build a cost-effective and value-based healthcare ecosystem.

The **Advanced Healthcare Analytics Summit 2016** will help you shift away from the big data hype towards transformational improvements to patient care in practise by extracting true insight from data.

Whilst the challenges ahead are significant, the potential opportunities are vast with the right data strategy. There is no question that more advanced analysis of healthcare data is key to drive more effective, efficient and personalized care, to in turn deliver better business and patients outcomes. This is an invaluable opportunity to join your peers in the healthcare industry including the **Cleveland Clinic, Kaiser Permanente, UnitedHealth Group, Geisinger Health System**, and many more.

Learn from the latest case studies that demonstrate how advanced data analytics has directly benefited treatment quality for patients in a cost-effective manner and pioneer your data analytics roadmap.

Why the 3rd Advanced Healthcare Analytics Summit Should be in Your Calendar

Top 5 Key Takeways to Implement:

1. Learn from a series of **real world applications** of advanced analytics, which have had an immediate benefit on clinical operations costs
2. Discover when and how to leverage data and analytics to drive your business objectives in a **value-based system**
3. Harness big data in the context of real-time data collection and analytics and learn from **Cleveland Clinic** to improve patient outcomes and reduce operational costs
4. Advance your use of electronic medical records by discovering how **Sinai Health System** are improving treatment of patients and lowering operation costs via reduced throughput times and appointment wait times
5. Learn how **Berg** utilize big data strategies in clinical practice through **claims data analysis**

Top 5 Case Studies to Discover:

1. Realize the impact of advanced data analytics in the shift towards **precision medicine** through improved point of care and clinical operations from **Kaiser Permanente**
2. Discover how to use big data solutions to enhance quality outcomes through correlation of patient survey results with clinical/ medical outcomes
3. Learn how the **Boston VA Healthcare System** are incorporating informatics solutions to aid precision oncology in a learning healthcare system
4. Harness the added value of predictive analytics and learn how the **University of Maryland Medical System** have improved risk stratification for sepsis and re-admissions
5. Discover how the **Geisinger Health System** are driving a cultural change to enhance the integration of big data and optimize the ROI on their data

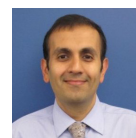
Speaker Faculty



C. Martin Harris
Chief Information Officer



Jason Jones
VP, Information Strategy for
Care Transformation



Vik Wadhvani
VP, Program Management,
xG Health Solutions,
Enterprise Data Strategy



Valmeek Kudesia
Director, Clinical
Analytics, Massachusetts
Veterans Epidemiology and
Information Center (MAVERIC),
Boston VA Healthcare System



Frank Song
Executive Director, Enterprise
Analytics, HCSC



Eugene Kolker
Chief Data Officer



Craig Hibbeler
Managing Consultant, Big
Data and Security Enterprise
Information Management



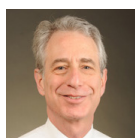
Alan Weiss
CMIO, Ambulatory Services,
Associate Vice President



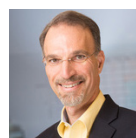
Ravi Shanbhag
Director, Data Science,
Solutions & Strategy



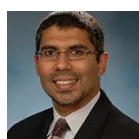
Mohan Giridharadas
Founder & CEO



Leslie Zun
System Chair, Emergency
Medicine



F. X. Campion
Chief Medical Officer



Warren D'Souza
Division Head at UMSOM, VP,
Enterprise Data & Analytics



Slava Akmaev
SVP, Chief Analytics Officer



Jason Garay
VP, Analytics and Informatics



Andrew Rosenberg
Chief Medical Information
Officer



Karen Craver
Associate Director
Clinical Operations



David Boden
Vice President &
Principal, Healthcare
and Emerging Verticals



Join the Discussion on **LinkedIn**.

SEARCH GROUPS FOR:

Advanced Healthcare Analytics

to join the online community.

Conference Day One

Wednesday May 25th 2016

8.00 Registration, Breakfast & Networking

9.00 Chair's Opening Remarks

Value – Value – Value: Advanced Analytics to Improve Patient Outcomes

9.10 Driving Actionable Outcomes: Harnessing Advanced Data Analytics to Progress to a Value-Based Healthcare System

- What does advanced analytics mean to healthcare?
- How to apply big data to seize its value for improving care and reducing cost
- How to get doctors to deliver better quality care without overwhelming them with huge amounts of data and data alerts
- What improvements can be made without big data and without alert systems

Alan Weiss, CMIO,
Ambulatory Services,
Associate Vice President,
**Memorial Hermann
Health System**

9.40 Security - We Are Data Stewards – Protecting the Digital Persona

- Many organizations are eager to wring business value from the capture and management of big data and the ever-expanding new data sources our digital economy is producing. However, just capturing big data isn't enough. Organizations have to satisfy the security demands of their stakeholders and customers
- A big data security strategy can no longer be put off. Securing data at both user/application and back-end data layers is crucial, as well as extending data governance policies to control the access to and use of big data
- Learn how ensure security strategy instills confidence and the trust of those people who are letting us take their data and derive insights
- We will highlight top ten issues faced both in securing the infrastructure and data architecture within Hadoop. Hear about not just best practices but mitigation strategies on how keep your clusters secure

Craig Hibbeler, Managing
Consultant, Big Data
and Security Enterprise
Information Management,
MasterCard Advisors

David Boden, Vice
President & Principal,
Healthcare and
Emerging Verticals,
MasterCard Advisors

10.10 Applying Healthcare Analytics to Modify Provider Behavior

- What provider behaviors' need modification?
- How data can be used to increase the use of electronic medical records, physician order entry and order sets; to reduce throughput time, appointment wait times, treatment times and length of stay
- To determine what data is valuable to this application. Too much data to review is as difficult as too little data. How to choose the right matrix and means to measure it?
- To establish a bonus plan based on data. Bonus plans need to be designed to provide an incentive to change behavior. The critical success factors and how it is linked to the data will be discussed

Leslie Zun, System chair,
Emergency Medicine,
Sinai Health System

10.40 Morning Refreshments & Speed Networking

Advanced Data Analytics Opportunities in a Personalized Healthcare System – Is Anyone Getting Value?

11.40 How Wake Forest Baptist Health Used Lean + Data Science to Transform Operations

- Healthcare providers face a daily operational paradox- Scarce and expensive resources (including infusion chairs, surgery rooms and inpatient beds) are over-booked yet under-utilized at different points in time during the same day
- This limits access, increases patient wait times, results in inconsistent workloads for the staff, and increases operational costs due to overtime and poor staff utilization
- Leadership at the Comprehensive Cancer Center at Wake Forest faced these operational complexities at their Infusion Centers - and the magnitude of the challenge was increasing due to the growth in treatment volume
- This case study from Wake Forest Baptist Health will discuss the impact from applying lean methodologies combined with predictive analytics to achieve lower waiting times, treat more patients, lower operating costs, and improve staff satisfaction

Mohan Giridharadas,
Founder & CEO,
LeanTaaS

Karen Craver, Associate
Director Clinical
Operations, **Wake Forest
Baptist Health**

12.10 Improve Outcome and Reduce Cost by Optimizing Care Management with Advanced Data Analytics

- Leveraging predictive modeling for proactive identification and micro-segmentation to improve identification accuracy from super high cost patients from 28% to 85%
- Growing evidence reveals that rule and threshold-based models alone are not adequate for optimal high cost case finding. If you are a care manager with fixed budget, for which patients should you offer additional care at a point in time?
- Micro-segmentation: Find persistent super high cost users for bigger impact
- Prospective and proactive prediction on new "low to high cost" migrating patients
- Integrating impactability for higher return: Focus on avoidable ER and admissions and gap in care
- How can we help our CM team to identify the patients who will surely have high cost (persistent H2H) or are highly likely to soon become a new high cost case (L2H)
- Using predictive modeling techniques to optimize care management by integrating more accurate identification with segmentation of the most impactful high cost patients to achieve the best outcome and efficiency

Frank Song, Executive Director, Enterprise Analytics, HCSC, **Blue Cross Blue Shield**

12.40 Leveraging Data & Analytics to Improve Clinical Outcomes

- How can you leverage data and analytics to drive your business objectives?
- How can you benchmark and improve safety and quality of care?
- Data and analytics: Lessons learned and practical recommendations

Eugene Kolker, Chief Data Officer, **Seattle Children's Hospital**

13.10 Networking Lunch

Advanced Analytics to Enhance Commercial Decision Making & Drive Cost Effectiveness

14.10 Clinical Optimization Using Machine Intelligence

- 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, Chief Medical Officer, **Ayasdi**

14.30 Development of Multidisciplinary Predictive Analytical Models to Improve Capacity Planning

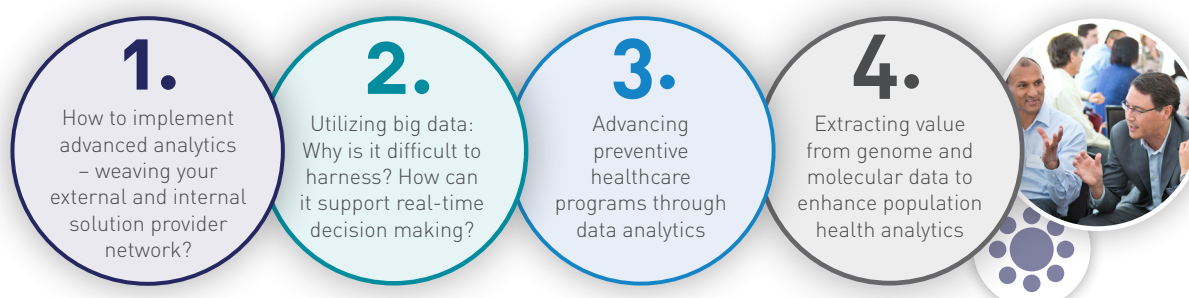
- How is big data being used and interpreted through different perspectives to create dynamic models for real-time decision making?
- Harnessing big data to ultimately drive changes in drug compliance, wait time and overall costs on the patient and service level
- Building multidisciplinary utilization models to understand and predict the behavior of the biggest users of the system

Jason Garay, VP, Analytics and Informatics, **Cancer Care Ontario**

15.00 Afternoon Refreshments

15.30 Breakout Roundtables: Effective Implementation of Advanced Analytics to Strengthen Healthcare Provision

Drive your own learning and crowd source ideas. Tap into this wealth of experience and expertise to discover multiple perspectives on the key issues affecting the healthcare community by joining roundtable discussions, specifically designed so you can learn from your fellow peers.



16.30 Chair's Closing Remarks

16.40 Close of Day 1

Conference Day Two

Thursday 26th May 2016

8.00 **Breakfast & Networking**

9.00 **Chair's Opening Remarks**

Real World Practical Applications of Advanced Analytics for Smarter Care

9.10 **Keynote Session: Identifying Key Areas That Big Data will Deliver Significant Benefits**

- What is causing the pile of big data in healthcare; from patient systems to hospital systems to ambulatory systems that are generating the data
- To address examples of how concretely using analytics can drive improved outcomes e.g. reducing C-section rates and changing the rate at which we use skilled nursing facilities after hip and knee surgery
- What is the framework for doing much more with big data; inside work versus analytics work including basic analysis and predictive analytics

C. Martin Harris, Chief Information Officer, **Cleveland Clinic**

9.55 **Big Data in Clinical Practice: Prescriptive Patient Stratification Applications with Claims Data**

- Access to claims data is abundant, however, utility to better patient outcomes is limited due to the nature and narrow scope of billing information
- To demonstrate a series of real world applications where claims data analysis can have we identified immediate impact on millions of patients
- To address the development of the proprietary analytics platform, BAICISTM and how it was successfully employed to identify critical factors affecting patient outcomes in some of the most commonly used procedures in the US in Medicare population

Slava Akmaev, Head of Berg Analytics, Chief Analytics Officer, **Berg**

10.25 **Morning Refreshments**

Data Empowered Evidence-Based Healthcare

11.00 **Keynote Session: Visualizing the Customer Journey with Advanced Analytics**

- Identify trends within data sets and combine data sets to visualize decisions for your product
- Employ smart data to drive better business decisions and gain competitive business intelligence
- Mine data from non-traditional sources including social media sites like Twitter
- Utilize techniques such as data mining and stratified analysis to model and visualize data
- Translate existing data into actionable insights for your business

Ravi Shanbhag, Director, Data Science, Solutions & Strategy, **UnitedHealth Group**

11.30 **Harnessing Predictive Analytics at the Point of Care: Re-admissions and Sepsis**

- Utilizing predictive analytics developing a model for risk stratification to help the provider figure out what the 30-day readmission risk is associated with a given patient
- Developing a model to identify severe sepsis or septic shock patients using EMR-based features and machine learning
- Harnessing Epic for both of these models to form an alert system to identify high risk patients

Warren D'Souza, Division Head at UMSOM, VP, Enterprise Data & Analytics, **University of Maryland Medical System**

12.00 **Addressing the Role of Big Data in Evidence-Based Healthcare**

- How can big data be used to implement evidence-based care to improve patient outcomes?
- Effectively combining different data sources – genomic, diagnostic, biometric and clinical trial data

Andrew Rosenberg, Chief Medical Information Officer, **University of Michigan Health System**

12.30 **Networking Lunch**13.45 **Precision Oncology in a Learning Healthcare System at the VA**

- The Veteran's Affairs Healthcare System (VA POP) is a Precision Medicine initiative at national scale
- Using VA POP to incorporate a informatics solution for a learning healthcare system
- Harnessing VA POP for patient insights and engagement, population management, and discovery of new knowledge

Valmeek Kudesia,
Director, Clinical
Analytics, Massachusetts
Veterans Epidemiology and
Information Center (MAVERIC),
Boston VA Healthcare System

Transforming Culture & Transparency to Advance Adoption of Health Analytics

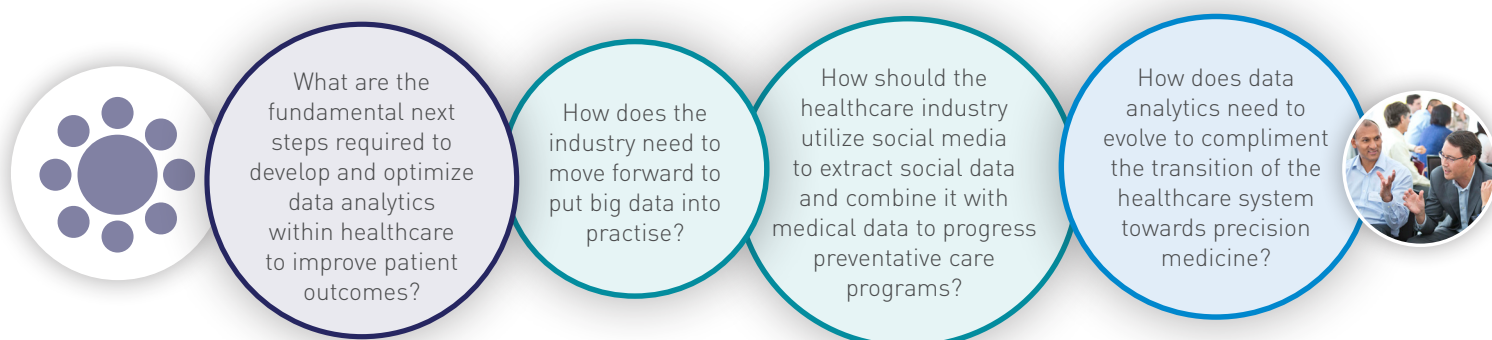
14.15 **Cultural Change to Continue to Drive Towards Big Data Adoption**

- Moving away from analyzing data through a traditional highway structured data warehouse perspective common in medicine
- Embracing advanced analytics for advanced patient care
- How to make sure clinicians and physicians buy into the value of data

Vik Wadhvani, VP, Program
Management, xG Health
Solutions, Enterprise Data
Strategy, **Geisinger Health
System**

14.45 **Roundtable Intelligence & Mastermind Discussion**

Missed a roundtable you wished you were at or have unanswered questions to your specific challenges? Fear not as roundtable moderators summarize the key industry intelligence from the earlier discussions, providing you one final opportunity to outline key future trends for the healthcare industry. The panel will discuss the following:

15.25 **Chair's Closing Remarks**15.30 **Close of Congress**

■■ I thought the content in the 3 day sessions was outstanding. It provided an insight into what large healthcare organizations are doing with data analytics and big data. The takeaways were valuable and it's something we will try to implement both at Hanover Hospital and for other clients. ■■

Past Big Data in Healthcare attendee, Hanover Hospital

Pre-Conference Workshop Tuesday May 24th 2016

How to Optimize Your Current Data Analytics Strategy to Reflect the Shift in Healthcare Towards Precision Medicine

Date: Tuesday 24th May 2016 | Time: 1.00pm – 4.00pm

Learn from a leading healthcare provider on how to best access and utilize data to mediate your translation towards enhanced patient treatment through precision medicine.

Key takeaway and questions to be addressed include:

- How is precision medicine different from clinicians recognizing that every patient is unique (e.g., matching blood type)?
- Who will be involved in precision medicine, with what roles, and with what aims?
- What analytic capabilities would be needed for the promise of precision medicine to succeed at the point of care, in clinical operations, for quality improvement, and research?



Workshop Leader

Jason Jones, VP, Information Strategy for Care Transformation,
Kaiser Permanente

Jason Jones, PhD is Vice President of Information, Strategy for Care Transformation. In this role, he supports patient care delivery by focusing upon building tools and capacity for organizational decision making and point of care decision support involving predictive analytics.



Networking At Advanced Healthcare Analytics 2016

Speed Networking

A structured networking session - run like speed dating- especially designed to facilitate quick introductions to the majority of attendees within the healthcare field. Use the time wisely to meet new contacts, reconnect with old friends and identify those you want to spend more time with.

Round Table Discussions

Take part in facilitated discussion sessions focused around specific, high priority issues and industry advances in integrating data analytics within healthcare. Discuss your experiences, observations and take lessons learned from the latest case studies within during interactive group discussion.

Structured Networking Breaks

In between the formal presentations the networking carries on. Use the multiple refreshment and lunch breaks to continue your discussions in an informal relaxed atmosphere. Build valuable future collaborations to enhance the incorporation of advanced analytics within your organization.



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Program Partner

AYASDI

Ayasdi

Ayasdi is on a mission to transform healthcare by developing machine intelligent applications for the largest, most sophisticated health systems and payer organizations. Ayasdi's suite of healthcare applications examine billions of data elements from organizations' own systems of record to uncover pathways of the highest quality, source evidence-based patient care; reduce claims denials; define insurance members' interests, loyalty, and health; and discover genetic relationships to develop more efficacious and targeted drug therapies. Developed by Stanford computational mathematicians, Ayasdi amplifies machine-learning techniques with topological data analysis—automating and accelerating the extraction of knowledge from even the most complex healthcare data.

www.ayasdi.com

Program Partner



LeanTaaS

LeanTaaS is the leading predictive analytics company that aims to lower medical costs with data-driven decisions. The iQueue product line helps hospitals lower wait times and increase patient volumes by optimizing patient pathways with data driven optimizations. The iGroup product line helps insurance carriers and self-insured employers reduce workers' compensation related medical costs through key driver analysis and anomaly detection. LeanTaaS' customers include some of the nation's largest organizations in the healthcare provider and workers' compensation sectors. The leadership team includes seasoned executives from Google, McKinsey, Oracle and Novartis. LeanTaaS is based in Santa Clara, California.

www.leantaas.com

Key Networking Statistics:



16+
case studies

5 interactive
sessions



12+ 
hours of networking

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David Ling

Sponsorship Sales Director

Tel: +1 212 537 5898

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Venue

Aloft Boston Seaport

401-403 D Street, Boston, MA, 02210

Overnight accommodation is not included in the registration fee, however accommodation options will be sent out with your confirmation email upon registering.



Prices and discounts

Healthcare providers, hospital, payers and academics

PACKAGE PRICES	Register & Pay before Friday April 29th 2016	Standard Price
GOLD PACKAGE Conference + 2 workshops	\$2497 (save \$300)	\$2597 (save \$200)
SILVER PACKAGE Conference + 1 workshop	\$1998 (save \$200)	\$2098 (save \$100)
BRONZE PACKAGE Conference only	\$1499 (save \$100)	\$1599
Workshops (each)	\$599	

Vendor, industry & solution provider pricing

PACKAGE PRICES	Register & Pay before Friday April 29th 2016	Standard Price
GOLD PACKAGE Conference + 2 workshops	\$4297 (save \$300)	\$4397 (save \$200)
SILVER PACKAGE Conference + 1 workshop	\$3598 (save \$200)	\$3698 (save \$100)
BRONZE PACKAGE Conference only	\$2899 (save \$100)	\$2999
Workshops (each)	\$799	

Team discounts*

3+ Delegates: 10% Discount

4+ Delegates: 15% Discount

5+ Delegates: 20% Discount

*Please note: Team discounts are only valid when three or more delegates from one company book and pay at the same time. 'Early Bird' discounts require payment at the time of registration (or prior to the cut-off date) to secure the applicable discount. All advertised discounts cannot be combined with any other offer.

Registration checklist

1. Have you checked if anyone else from your business is attending? If 3 or more of you register together, you will all benefit from reduced rates.
2. Could you register your place early to take advantage of early booking rates?
3. Have you carefully evaluated which package will best help you achieve your goals?



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Contact us:

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