**tcbi**

*The Center for Business Innovation*

Presents

# FOURTH ANNUAL SUMMIT ON PATIENT SAFETY & INFORMATION TECHNOLOGY

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# INAUGURAL SUMMIT ON HEALTHCARE IDENTIFICATION & TRACKING

*Bar Coding, RFID, CPOE & Other Innovative Approaches For Reducing Medical Errors, Tracking Assets / Inventory, Patients, Hospital Staff And More*

Photos courtesy of San Francisco Convention & Visitors' Bureau

## December 15-16, 2005
## Hilton San Francisco
## San Francisco, California

## Speakers Include Representatives From:

Aventura Hospital • CalRHIO • Christiana Care Health System • Harvard Medical School • HCA • JFK Medical Center
Joint Commission Resources, an affiliate of JCAHO • Lutheran Medical Center • Mary Washington Hospital
Massachusetts General Hospital • MIT • National Patient Safety Foundation • Parkview Medical Center
Partners Healthcare System • The Leapfrog Group • UCSF Medical Center

### SUPPORTING ORGANIZATION

**AHIP** *Solutions*

### SUPPORTING PUBLICATIONS

Briefings on **Patient Safety**
HELPING HEALTH CARE PROFESSIONALS REBUILD SYSTEMS AND AVOID MEDICAL ERRORS

**Health Management Technology**
The Source for Information Systems Solutions

FEDERAL TELEMEDICINE **Update**

**Healthcare IT News**
THE NEWS SOURCE FOR HEALTHCARE INFORMATION TECHNOLOGY

**Modern Healthcare**

Healthcare **Informatics**
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INFORMATION TO LEAD

**Patient Safety** & QUALITY HEALTHCARE

## ABOUT THE FOURTH ANNUAL SUMMIT ON PATIENT SAFETY & INFORMATION TECHNOLOGY

The Summit on Patient Safety & Information Technology is the premier conference and exhibition that focuses exclusively on effective use of information technology to reduce medical errors and promote patient safety. The Summit will provide balanced, unbiased information and analysis combined with the opportunity to network with leading executives and clinicians from across the U.S., as well as prominent and highly-regarded consultants and vendors. Potential customers of patient safety products and services will have the opportunity to hear diverse perspectives from nationally known experts and practitioners and to develop the foundation of knowledge necessary to make informed IT decisions.

The goal of the Summit is to bring together innovative healthcare organizations to discuss, analyze and formulate practical and cost-effective patient safety IT solutions that can be implemented not only at large academic institutions, but also at community hospitals. A significant amount of time will be devoted to **detailed case study presentations by leading healthcare providers**. This event builds on the strength of our three previous summits, which attracted hundreds of high-level attendees from across the US.

## ABOUT THE INAUGURAL SUMMIT ON HEALTHCARE IDENTIFICATION & TRACKING

The Inaugural Summit on Healthcare Identification & Tracking delves into the use of RFID, bar coding and other innovative autoidentification technologies to track assets/inventory, patients, hospital staff and much more. The Summit on Healthcare Identification & Tracking will run concurrently with the Fourth Annual Summit on Patient Safety & Information Technology. Attendees may choose to attend sessions of either summit.

## OUR DISTINGUISHED FACULTY INCLUDES

- *Ann Donovan, Project Director, CalRHIO*
- *Linda Laskowski Jones, MS, RN, APRN, BC, CCRN, CEN, Director of Trauma, Emergency & Aeromedical Services, CHRISTIANA HOSPITAL*
- *Cindy Borum, RN, Quality Department Clinical Director, HCA*
- *Jason Hickok, MBA, RN, Quality Department Clinical Director, HCA*
- *Michele Weizer Simon, PharmD, BCPS, Pharmacy Automation Manager, Department of Pharmaceutical Services, JFK MEDICAL CENTER*
- *Stephen C. Anderson, MBA, RN, Consultant, JOINT COMMISSION RESOURCES, an affiliate of the JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS (JCAHO)*
- *Jason Hess, Director of Business Development, KLAS ENTERPRISES*
- *Linda Glickman, Senior Vice President of Quality, LUTHERAN MEDICAL CENTER*
- *Clifton Sheets MD, FAAEM, MARY WASHINGTON HOSPITAL*
- *Nathaniel M. Sims, MD, Physician Advisor, Partners Healthcare Biomedical Engineering, MASSACHUSETTS GENERAL HOSPITAL*
- *In K. Mun, PhD, Director of Hospital Research, HRI, MASSACHUSETTS INSTITUTE OF TECHNOLOGY & Director of Bio-Medical Research, AVENTURA HOSPITAL*
- *Diane C. Pinakiewicz, MBA, President, NATIONAL PATIENT SAFETY FOUNDATION*
- *Greg Harder, Director of Inpatient Pharmacy, PARKVIEW MEDICAL CENTER*
- *Rick Hampton, Wireless Communications Manager, PARTNERS HEALTHCARE SYSTEM*
- *Suzanne Delbanco, PhD, CEO, THE LEAPFROG GROUP*
- *Russell J. Cucina, MD, MS, Assistant Professor, Internal Medicine Hospitalist Group & Medical Informatics, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO*
- *Robert M. Wachter, MD, Professor of Medicine and Associate Chairman, Department of Medicine, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, Chief of the Medical Service, UCSF MEDICAL CENTER & Editor, AHRQ WebM&M & AHRQ Patient Safety Network*

# WHO SHOULD ATTEND

*CIOs, CMOs, Presidents, CEOs, COOs and CFOs, as well as IT, Pharmacy, Nursing, Case Management, Quality Improvement, Materials Management, Purchasing and Biomedical Engineering Staff from* **Hospitals, Integrated Delivery Networks, Health Plans, Insurance Companies, and Physician Groups; IT Vendors, Pharmaceutical, Medical Device and Diagnostics Companies, as well as Contract Research Organizations, Medical Transcription Companies, Security Companies, Wireless Companies, Pharmacy Chains, Health Information Portals, Group Purchasing Organizations and Employers.**

# SUMMIT ON PATIENT SAFETY & INFORMATION TECHNOLOGY / SUMMIT ON HEALTHCARE IDENTIFICATION & TRACKING ADVISORY BOARD

*Mark R. Anderson, CPHIMS, FHIMSS, CEO & Healthcare IT Futurist, AC GROUP, INC.*
*Eric Weber, Vice President, Business Advancement, AMERICA'S HEALTH INSURANCE PLANS (AHIP)*
*Manisha Shah, Director, Patient Safety & eMar & Bar Coding Optimization Lead, HCA*
*Mike Wisz, Principal, MIKE WISZ & ASSOCIATES*
*Rick Hampton, Wireless Communications Manager, PARTNERS HEALTHCARE SYSTEM*
*Mitch Work, President & CEO, THE WORK GROUP*
*Jay Srini, Vice President, Emerging Technologies, UNIVERSITY OF PITTSBURGH MEDICAL CENTER*

# ABOUT THE SUMMIT ORGANIZER

The Center for Business Innovation (TCBI) organizes conferences and exhibitions for the US and international markets. TCBI is an independent company, and is not part of any consulting firm, investment bank, information technology firm or any other corporate entity. The company is well-positioned to provide objective, balanced information and analysis on a wide range of topics.

TCBI currently focuses on the US healthcare market, with a strong commitment to organizing programs that offer detailed information and insight on clinical, technological, financial, strategic and regulatory aspects of healthcare. These programs are carefully designed to meet the information needs of executives, scientists and clinicians from hospitals, managed care organizations, physician groups, pharmaceutical and biotechnology companies, medical device companies, information technology vendors and a host of other players in the rapidly evolving healthcare industry. For additional information, please visit **www.tcbi.org**

*For additional information on our events or to discuss a potential conference topic, please contact:*
*Satish Kavirajan, Managing Director, TCBI: Phone: (310)265-2570 Email: sk@tcbi.org*

# SPONSORSHIP & EXHIBITION OPPORTUNITIES

*Sponsorship / exhibition is an effective means of promoting your products and services to key decision makers at hospitals, integrated delivery networks, health plans and physician groups. Key benefits of sponsorship include space to exhibit at the Summit, an advance listing of attendees, passes for staff members and clients/potential clients and exposure on TCBI's website and other promotional media.*

*For additional information, please contact TCBI:*
*Ph: (310)265-2570 Email: sk@tcbi.org*

# AGENDA

## DAY ONE: Thursday, December 15, 2005

**7:15**    *Registration / Continental Breakfast / Exhibitor Showcase*

**8:00**    **CHAIRPERSONS' OPENING REMARKS**
*Mark R. Anderson, CPHIMS, FHIMSS, CEO & Healthcare IT Futurist, AC GROUP, INC.*
*Nathaniel M. Sims, MD, Physician Advisor, Partners HealthCare Biomedical Engineering, MASSACHUSETTS GENERAL HOSPITAL*

**8:45**    **KEYNOTE ADDRESS: CONSUMERS AND HEALTH INFORMATION TECHNOLOGY - IMPLICATIONS FOR PATIENT SAFETY**
Ms. Pinakiewicz will address the important role of consumers in the development of patient safety solutions, including those facilitated by and resulting from advancements being made in healthcare information technology. Innovative approaches in HIT can be compromised by implementation issues, some driven by the lack of patient buy-in to both new technologies and those that are rapidly becoming standard in the healthcare industry. The potential role of PHRs in reducing medical error and improving safety will be discussed, as will the importance of responsiveness to consumer issues, which include security, privacy and consumers' desire to retain control of their own information. Furthermore, Ms. Pinakiewicz will comment on significant phases in the development of PHRs where consumer involvement is vital, including policy, regulation setting and product design.

*Ms. Pinakiewicz is President of The National Patient Safety Foundation, where she has served on the Board of Directors since its inception in 1997, the first five years as an officer. Ms. Pinakiewicz has held the positions of senior director of the strategic healthcare leadership unit at a major pharmaceutical company, chief administrative and financial officer at a disease management company which she led through an acquisition, vice president of managed care programs at a major hospital system, senior consultant at a firm specializing in healthcare, director of marketing and planning at a major for-profit hospital chain and executive in a major oncologic teaching hospital in New York. She has been on the faculty of Harvard's program for Executives in Managed Care. Ms. Pinakiewicz holds an MBA and Sloan Certificate in Hospital and Healthcare Administration from Cornell University and a BA from Mt. Holyoke.*

**Diane C. Pinakiewicz, MBA, President, NATIONAL PATIENT SAFETY FOUNDATION**

**9:25**    **KEYNOTE ADDRESS: USING PURCHASING POWER TO DRIVE LEAPS IN HEALTHCARE**
This presentation will cover the role of healthcare purchasers in driving leaps in the safety, quality and affordability of healthcare. Using the technology and know-how we have today, purchasers are pushing for more standardized approaches to measuring healthcare performance, for public reporting on that performance, and for aligning incentives for performance improvement. Health information technology holds promise in two important ways: 1) it can provide clinical decision support that intercepts harmful errors and increases the likelihood of evidence-based care and 2) it can streamline the measurement and reporting process for healthcare performance information. The Leapfrog Group is using these principles in its movement, and the presentation will include descriptions of its various efforts and some suggestions about what the future holds.

*Suzanne F. Delbanco was the founding CEO of The Leapfrog Group. Founded by the Business Roundtable, The Leapfrog Group's goal is to mobilize employer purchasing power to initiate breakthrough improvements in the safety and overall value of healthcare for American consumers. The Group's growing consortium of more than 165 Fortune 500 companies and other large private and public healthcare purchasers provides health benefits to more than 36 million Americans, and spends more than $64 billion on healthcare annually. Suzanne is on the Board of Bridges to Excellence and a Commissioner on the Certification Commission for Healthcare Information Technology. Suzanne holds a PhD in public policy and a MPH from the University of California, Berkeley.*

**Suzanne Delbanco, PhD, CEO, THE LEAPFROG GROUP**

**10:05**    **KEYNOTE ADDRESS: CONSEQUENCES (INTENDED AND UNINTENDED) OF THE INFORMATION TECHNOLOGY REVOLUTION**
In this presentation, Dr. Bob Wachter, author of the bestselling book *Internal Bleeding* and winner of the 2004 John M. Eisenberg award in Patient Safety and Quality, will discuss the links between the IT revolution and the quality of healthcare. Even as he describes promising new IT applications, he will also highlight areas in which unforeseen consequences and political pushback are likely to influence the speed and shape of HIT dissemination in the US Wachter, recently selected as one of the 50 most influential physicians in the country, is the national leader of the hospitalist field (he coined the term "hospitalist" in a 1996 New England Journal of Medicine article).

*Dr. Wachter was the first elected President of the Society of Hospital Medicine, the fastest growing physician professional society in the U.S. He has published 150 articles and three books in the areas of clinical epidemiology, health policy and economics, medical education, and ethics. Dr. Wachter is also a national leader in the field of medical errors, patient safety and ethics. He is editor of AHRQ WebM&M (http://webmm.ahrq.gov), a case-based patient safety journal on the Web, AHRQ Patient Safety Network (http://psnet.ahrq.gov), the leading federal patient safety portal, and "Quality Grand*

*Rounds," a case-based series on medical errors in the Annals of Internal Medicine. He was project director of Making Healthcare Safer: A Critical Analysis of Patient Safety Practices, produced for the Agency for Healthcare Research and Quality (AHRQ) and published in 2001.*

**Robert M. Wachter, MD, Professor of Medicine and Associate Chairman, Department of Medicine, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, Chief of the Medical Service, UCSF MEDICAL CENTER & Editor, AHRQ WebM&M & AHRQ Patient Safety Network**

10:45 *Refreshments / Exhibitor Showcase*

11:15 **KEYNOTE ADDRESS: ENHANCING PATIENT SAFETY THROUGH MEDICATION RECONCILIATION**

Evaluating and implementing good medication reconciliation processes requires an organization-wide review of current systems and potential pitfalls. Many organizations are looking at current and new technologies to assist them in enhancing effective communications and medication tracking. Mr. Anderson explores the concept of medication reconciliation from an information systems perspective and provides examples of how some healthcare organizations and vendors are using technology to enhance their reconciliation process.

*Steve Anderson brings an accomplished record of executive management experience to his role as a consultant for Joint Commission Resources. Prior to joining JCR full-time, Mr. Anderson served as a surveyor for 7 years at the Joint Commission on Accreditation of Healthcare Organizations and Joint Commission International. He was also CEO of Healthcare Information Access, Inc. in Seattle, WA, a performance improvement and accreditation-consulting firm. Mr. Anderson's experience in numerous healthcare settings has given him a broad understanding of the healthcare field in the United States and internationally. He has served as associate administrator for a Level I academic medical center, a vice president for a children's hospital, a director of a university hospital multi-specialty group practice, and an executive director of a home healthcare agency. He has worked in not-for-profit, government and investor-owned healthcare delivery systems. Clinically he has a critical care background in burn, emergency, and air ambulance care. Mr. Anderson served as President for the American Academy of Ambulatory Care Nursing, a national association based in New Jersey. He has a current faculty appointment as a Clinical Instructor at the University of Washington School of Nursing, Biobehavioral Health Division.*

**Stephen C. Anderson, MBA, RN, Consultant, JOINT COMMISSION RESOURCES, an affiliate of the JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS (JCAHO)**

11:55 **KEYNOTE ADDRESS: UNDERSTANDING & IMPROVING ED OPERATIONAL EFFICIENCY WITH A PASSIVE TRACKING SYSTEM**

In this presentation, Linda Jones RN, Director of Trauma, Emergency & Aeromedical Services at Christiana Care Health System, will discuss the implementation and operational impact of an Infrared/RFID-based passive patient tracking system at Christiana Hospital, ranked 21st among US emergency departments in patient volume. Ms. Jones will discuss the change management model that her department employed, operational goals and milestones achieved and lessons learned. For hospitals considering the implementation of a passive form of patient and asset tracking, this presentation will provide useful insights.

*Linda Laskowski Jones RN, MS, APRN, BC, CCRN, CEN is the Director of Trauma, Emergency & Aeromedical Services at Christiana Care Health System in Newark, Delaware. Christiana Hospital is a large referral center and is ranked 21st among top 25 emergency departments in the US for patient volume. Ms. Jones serves as a supplemental faculty member at the University of Delaware College of Nursing. Ms. Jones is a highly published author on emergency departments and the trauma system as well as a frequent national and regional speaker on these topics. Ms. Jones was recently presented with a Regional Nursing Leadership Award by Nursing Spectrum. Ms. Jones received her Bachelor's and Master's degrees in nursing from the University of Delaware. She completed an Executive Fellowship with the Advisory Board Company in Washington, DC. Linda is on the Editorial Advisory Board for Lippincott Williams Wilkins and is a Clinical Advisor to Patient Care Technology Systems.*

**Linda Laskowski Jones, MS, RN, APRN, BC, CCRN, CEN, Director of Trauma, Emergency & Aeromedical Services, CHRISTIANA HOSPITAL**

12:35 *Luncheon / Exhibitor Showcase*

1:45 **PANEL DISCUSSION: AUTOIDENTIFICATION TECHNOLOGIES (BAR CODING, RFID & OTHER APPROACHES) PART ONE**

- A look at the current autoidentification and tracking options available, including RFID, bar coding, infrared (IR) and more
- A discussion of the relative merits and tradeoffs associated with each option, as well as key considerations in using a combination of these approaches
- Applications for reducing medical errors

**Moderator:**
*Mitch Work, President & CEO, THE WORK GROUP*
**Panelists:**
*Brad Honeyman, Director/Marketing, EXAVERA TECHNOLOGIES INCORPORATED*

*Michele Weizer Simon, PharmD, BCPS, Pharmacy Automation Manager, Department of Pharmaceutical Services, JFK MEDICAL CENTER*
*In K. Mun, PhD, Director of Hospital Research, HRI, MASSACHUSETTS INSTITUTE OF TECHNOLOGY & Director of Bio-Medical Research, AVENTURA HOSPITAL*
*Mike Wisz, Principal, MIKE WISZ & ASSOCIATES*
*Tony Marsico, CEO, PATIENT CARE TECHNOLOGY SYSTEMS*

**2:45**    **KEYNOTE ADDRESS: CLOSED-LOOP MEDICATION ADMINISTRATION - WHERE DOES IT STAND TODAY?**
KLAS recently conducted an in-depth study looking at the major vendors offering solutions in the Closed-Loop Medication Administration process--CPOE, Pharmacy, Centralized and Decentralized Medication Dispensing, Medication Administration/Barcoding at the Bedside and eMar/Charting. In this research effort KLAS conducted performance interviews with live customers using these solutions in an effort to report on how they are performing. This presentation will discuss the major vendors offering solutions in the Closed-Loop process, how they are performing according to their live customers, and how many sites were validated as being live.

*Jason Hess has ten years of experience in Business Development, Marketing, Consulting and Sales, including 5 years working with the healthcare and pharmaceutical industries where he has earned several national performance awards. He is responsible for all marketing, business development, external communications, and partnership activities at KLAS. He also leads many key research projects in several specialty areas. Jason has worked with hundreds of CIOs, healthcare providers, and vendor executives in keeping a pulse on the performance of Healthcare IT. His main areas of expertise include: Emergency Department, Pharmacy, Medication Administration/Barcoding, Mobile Healthcare Solutions, and others.*

**Jason Hess, Director of Business Development, KLAS ENTERPRISES**

**3:30**    *Refreshments / Exhibitor Showcase*

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## Concurrent Sessions:
## Track A (Summit on Patient Safety & Information Technology)
## or Track B (Summit on Healthcare Identification & Tracking)

## TRACK A

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**4:00A**    **EPRESCRIBING - CURRENT STATE AND FUTURE DIRECTION**
           *Mark R. Anderson, CPHIMS, FHIMSS, CEO & Healthcare IT Futurist, AC GROUP, INC.*

**4:30A**    **AUTOMATING PRODUCT RECALL MANAGEMENT - ENHANCING PATIENT SAFETY USING AN AUTOMATED PRODUCT RECALL MANAGEMENT SERVICE**
The presentation will cover utilization of a web-based product recall management service that improves patient safety by significantly closing the gap from alert publication to alert completion.  Key topics include:
• Challenges of product recall management
• Moving towards enterprise-wide recall management
• Implementation
• Outcomes to date
• Future steps

*Lisa Petrilli, RN, BSN, CLNC, Western Regional Manager, MITRETEK SYSTEMS / RASMAS*

**5:00A**    **RHIOs AND THEIR ROLE IN PROMOTING PATIENT SAFETY**
The presentation will discuss RHIO activities in California and other states, and their role in reducing medical errors through use of information technology.

*Mark R. Anderson, CPHIMS, FHIMSS, CEO & Healthcare IT Futurist, AC GROUP, INC.*
*Ann Donovan, Project Director, CalRHIO*

**6:00**    *Day One Concludes; Exhibitor Showcase / Networking Cocktail Reception*

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## TRACK B

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**4:00B**    **CASE STUDY: RFID AND WIRELESS - WHERE WILL IT END?**
New wireless technologies are being created every day, with more on the horizon. Among them is RFID, which is receiving more than its fair share of attention.  This presentation will discuss some of the unique RFID pilots being tested at the Massachusetts General Hospital, along with the more conventional applications in use at the Brigham & Women's Hospital.  Workflow optimization, patient tracking, and asset tracking are among the examples to be discussed, along with how "context awareness" can provide a richer data set.  You'll also see and hear about the overall wireless strategy being developed and implemented at Partners HealthCare System; the drivers, constraints, and how the growing use of wireless technologies is being addressed. Founded in 1994 by Brigham and Women's Hospital and Massachusetts General Hospital, Partners HealthCare System, Inc. (Partners) is a non-profit integrated healthcare system offering

patients a continuum of high-quality care, one of the nation's premier biomedical research organizations, and a major teaching affiliate of Harvard Medical School.

*Rick Hampton, Wireless Communications Manager, PARTNERS HEALTHCARE SYSTEM*

5:00B **HEALTHCARE APPLICATIONS OF RFID: OPPORTUNITIES AND CHALLENGES**
The session will discuss market opportunities and challenges for vendors and implementers of Radio-Frequency Identification (RFID) systems in US healthcare organizations. Mr. Malkary will present market data on the current state of RFID adoption by healthcare organizations across the United States and highlight results of an extensive systematic survey of pharmacy, clinical engineering, materials management and medical and nursing informatics professionals implementing or considering RFID. Dr. Cucina will discuss the unique practical challenges of RFID implementation in clinical settings, including the leadership and sociotechnical issues that can overcome an otherwise well-refined technical application.

*Gregg Malkary, Managing Director, SPYGLASS CONSULTING GROUP*
*Russell J. Cucina, MD, MS, Assistant Professor, Internal Medicine Hospitalist Group &*
*Medical Informatics, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO*

6:00 *Day One Concludes; Exhibitor Showcase / Networking Cocktail Reception*

# DAY TWO: Friday, December 16, 2005

7:30 *Continental Breakfast / Exhibitor Showcase*

8:00 **CHAIRPERSONS' OPENING REMARKS**
*Mike Wisz, Principal, MIKE WISZ & ASSOCIATES*
*Mitch Work, President & CEO, THE WORK GROUP*

## Concurrent Sessions:
## Track A (Summit on Patient Safety & Information Technology)
## or Track B (Summit on Healthcare Identification & Tracking)

### TRACK A

8:15A **POINT OF CARE DEVICE SELECTION**
Of the multiple challenges faced in the implementation of electronic point of care applications, one of the most important decisions is that of choosing the right combination of hardware devices (carts, tablets, etc). Howard Medical will share its experience as to the many considerations that need to be taken into account prior to deployment and highlight some of the industry's best new technologies.

*Brian Swistak, National Sales Director, HOWARD MEDICAL*

8:45A **CASE STUDY: REDUCING THE POTENTIAL FOR MEDICAL ERRORS IN YOUR ED - AN ED INFORMATION SYSTEM CASE STUDY**
Emergency departments continue to face rising patient volumes and must cope with chronic staffing shortages. National initiatives to pursue electronic medical records present an opportunity to consider how electronic medical records can support emergency departments to manage patient care with greater efficiency and with less risk of medical errors. Dr. Sheets will discuss the patient safety impact of having an electronic medical record in his 88,000 census emergency department. In 2002, Dr. Sheets led the selection committee that chose the Amelior ED patient care system, an integrated ED information system incorporating nurse and physician charting, computerized provider order entry and clinical decision support. Drawing upon over 3 years of experience utilizing an ED information system, Dr. Sheets will share how his department has improved patient safety and overall department efficiency.

*Clifton Sheets MD, FAAEM, MARY WASHINGTON HOSPITAL &*
*Chief Medical Officer, PATIENT CARE TECHNOLOGY SYSTEMS*

9:15A **CASE STUDY: THE IMPORTANCE OF USABILITY IN BAR CODE MEDICATION ADMINISTRATION - PARKVIEW MEDICAL CENTER'S EXPERIENCE WITH THE IntelliDOT CAREt® SYSTEM**
This 220-bed hospital in Pueblo, Colorado, reviews their research and selection of a point-of-care medication error prevention system. Greg Harder, Director of Parkview inpatient pharmacy, reviews the nurse research undertaken in advance of their selection of a bar code medication administration and documentation system. The case study will highlight the importance of nurse-usability in bar code medication administration and documentation, and discuss the positive impacts of a "smart hardware" on the learning / in-service process for a large nursing staff. Pre- and post-medication error and documentation quality will be reviewed.

*David Swenson, COO, IntelliDOT CORPORATION*
*Greg Harder, Director of Inpatient Pharmacy, PARKVIEW MEDICAL CENTER*

**9:45A** **CASE STUDY: ACHIEVING HEALTHCARE QUALITY AND COMPLIANCE INTEGRATION WITH INNOVATIVE COMPLIANCE SOFTWARE**

Effective patient safety and on-going quality entails proactively identifying the potential and actual risks to safety and current levels of regulatory compliance, identifying underlying causes and making the necessary improvements so risk is reduced, quality becomes an intentional effort and the healthcare organization collaboratively moves toward effective and sustainable compliance and performance. This discussion focuses on an automated compliance solution that integrates and coordinates communication throughout the HCO; proactively improving performance, identifying and reducing errors. By utilizing a comprehensive IT application to manage the complexity of data, healthcare organizations transition to a state of continuous quality improvement by tracking, managing and monitoring data effectively. Lutheran HealthCare is the principal provider of high-quality, community-focused healthcare for southwest Brooklyn's diverse residents and many of their neighbors. The Lutheran HealthCare system provides superb primary and supportive care through its state-of-the-art medical center, skilled nursing facility, senior housing residences, home health agency, extensive network of community-based family health centers and a managed-care plan for families with financial need.

*Linda Glickman, Senior Vice President of Quality, LUTHERAN MEDICAL CENTER*
*Radgia Cook, Partner, XPEDIATE CONSULTING, LLC*

**10:15** *Refreshments / Exhibitor Showcase*

**10:30A** **CASE STUDY: DIAGNOSIS ERROR - INCIDENCE, CONTRIBUTORY FACTORS AND SOLUTIONS**
- How much of medical error is diagnosis error?
- What are the factors that contribute to diagnosis error?
- Diagnosis decision support systems - the next generation
- Validation of diagnosis decision support systems
- Integrating EMR systems with diagnosis decision support systems
- What are the drivers for adoption of diagnosis decision support systems?

*Joseph Britto MD, CEO and Co-Founder, ISABEL HEALTHCARE INC.*

**11:00A** **CASE STUDY: PATIENT SAFETY TECHNOLOGY - HCA IMPLEMENTATION OF CPOE**
HCA is a hospital management company committed to providing quality healthcare services in 190 hospitals and 80 outpatient surgery centers in 23 states, England and Switzerland. The case study will cover:
- HCA implementation model
- Corporate to facility structure
- Senior leadership and physician involvement
- Communication strategy for project
  - Corporate to facility & facility to corporate
- Case study presentations
- Wrap-up - question and answer time

*Cindy Borum, RN, Quality Department Clinical Director, HCA*
*Jason Hickok, MBA, RN, Quality Department Clinical Director, HCA*

**12:00** **KEYNOTE ADDRESS: SMART BEDSIDE DEVICES, AUTO-ID AND ELECTRONIC HEALTH RECORDS**
In the past few years, healthcare organizations have been focusing on islands of technology. Dr. Sims will share his vision of how merging data streams from various sources, including medical devices, into an electronic health record can take healthcare towards greater productivity and safety. (View Dr. Sims' bio on p. 10).

*Nathaniel M. Sims, MD, Physician Advisor, Partners HealthCare Biomedical Engineering, MASSACHUSETTS GENERAL HOSPITAL*

**12:30** **RADIO FREQUENCY IDENTIFICATION APPLICATIONS TO IMPROVE PATIENT OUTCOMES**
Patients compromised by chronic diseases, the cognitively impaired, or infants are unable to verbally provide personal health history and identification information. This situation is frequently the consequence of communication barriers due to loss of consciousness, impaired speech, and memory loss. These deficiencies can lead to treatment delays or lead to performing redundant medical tests or contribute to medical errors. RFID solutions will be presented, which when linked to electronic medical records or web accessible databases can automate access to authoritative medical information, expediting definitive medical management.

*Richard Seelig, MD, Vice President Medical Applications, VERICHIP CORPORATION*

**1:00** *Summit Concludes; Luncheon for Attendees of Optional Post-Summit Workshop*

## TRACK B

**8:15B** **PANEL DISCUSSION: AUTOIDENTIFICATION TECHNOLOGIES (BAR CODING, RFID & OTHER APPROACHES) PART TWO**
- Key considerations in choosing among technology options, including a discussion of how to choose among vendors and how to calculate ROI
- Implementation issues (emphasis on bar coding and RFID)
  - Integration with existing IT systems

- Integration with wireless technologies (Bluetooth, Wi-Fi, ZigBee, broadband, ultra wideband, wireless 802.11b systems, etc.)
- Designing a system that takes into account patient flow and workflow
- Combining bar coding and RFID
- A discussion of leading-edge applications, including tracking of assets/inventory/medical equipment, patients, hospital workers, hazardous materials, medication dispensing, laboratory, blood and more

**Moderator:**
*Mark N. Blatt, MD, MBA, Director, Global Healthcare Strategies, Digital Health Group, INTEL CORPORATION*
**Panelists:**
*Kenneth Adler, Partner, Healthcare Technology Practice Group, BROWN RAYSMAN MILLSTEIN FELDER & STEINER LLP*
*Tuomo Rutanen, GM Americas, EKAHAU, INC.*
*Alex Wilson, VP/Product Management and Development, EXAVERA TECHNOLOGIES INCORPORATED*
*Rick Hampton, Wireless Communications Manager, PARTNERS HEALTHCARE SYSTEM*
*Cory Wagner. Director of Development Tracking and Communications Solutions Division, PATIENT CARE TECHNOLOGY SYSTEMS*
*Todd Brown, Business Development Manager, RADIANSE, INC.*
*Joseph Pearson, Pharmaceutical Business Development Manager, TEXAS INSTRUMENTS RADIO FREQUENCY IDENTIFICATION (TI RFid™) SYSTEMS*

**10:15** *Refreshments / Exhibitor Showcase*

**10:30B** **CASE STUDIES FROM AROUND THE WORLD - USING YOUR EXISTING WIFI NETWORK FOR TRACKING ASSETS, PATIENTS AND CAREGIVERS**
RFID over WiFi also known as RTLS (Real Time Location System) is building momentum in the healthcare sector around the world. Healthcare providers have had legacy technologies such as Active RFID and Infrared available to them to track various objects in the hospital settings for nearly a decade. Why is there a sudden increase in adoption of tracking systems and what are the economics driving this adoption? This presentation will discuss several case studies and both hard and soft ROI models where efficiencies and significant cost savings can be found. Topics to be covered include:
- The economics and drivers for tracking assets over WIFI in hospitals. Is it just limited to high value equipment?
- Patient tracking: the applications and drivers to help drive throughput efficiencies
- Caregiver tracking - a European perspective for caregiver safety

*Tuomo Rutanen, GM Americas, EKAHAU, INC.*

**11:15B** **CASE STUDY: IMPROVING ASSET MANAGEMENT USING RFID**
In recent years, RFID has received a lot of attention as a technology to improve many hospital operational issues. At MIT, as a part of the Healthcare Research Initiative in the AutoID Lab, we have spent about two years studying the operational issues which could benefit from RFID as well as the most suitable RFID technologies for such applications. Currently, we are participating in one of the RFID pilot projects at CRMC, Tallahassee, FL, which is an HCA hospital. We will discuss how we have made a decision on technology, the current status, what we have learned at this time, and where we will go, as well as challenges ahead of us.

*Dan Neuwirth, Executive Vice President, AGILITY HEALTHCARE SOLUTIONS*
*In K. Mun, PhD, Director of Hospital Research, HRI, MASSACHUSETTS INSTITUTE OF TECHNOLOGY & Director of Bio-Medical Research, AVENTURA HOSPITAL*

**12:00** **KEYNOTE ADDRESS: SMART BEDSIDE DEVICES, AUTO-ID AND ELECTRONIC HEALTH RECORDS**
In the past few years, healthcare organizations have been focusing on islands of technology. Dr. Sims will share his vision of how merging data streams from various sources, including medical devices, into an electronic health record can take healthcare towards greater productivity and safety. (View Dr. Sims' bio on p. 10).

*Nathaniel M. Sims, MD, Physician Advisor, Partners HealthCare Biomedical Engineering, MASSACHUSETTS GENERAL HOSPITAL*

**12:30** **RADIO FREQUENCY IDENTIFICATION APPLICATIONS TO IMPROVE PATIENT OUTCOMES**
Patients compromised by chronic diseases, the cognitively impaired, or infants are unable to verbally provide personal health history and identification information. This situation is frequently the consequence of communication barriers due to loss of consciousness, impaired speech, and memory loss. These deficiencies can lead to treatment delays or lead to performing redundant medical tests or contribute to medical errors. RFID solutions will be presented, which when linked to electronic medical records or web accessible databases can automate access to authoritative medical information, expediting definitive medical management.

*Richard Seelig, MD, Vice President Medical Applications, VERICHIP CORPORATION*

**1:00** *Summit Concludes; Luncheon for Attendees of Optional Post-Summit Workshop*

# POST-SUMMIT WORKSHOP:
# BAR CODING IMPLEMENTATION AT HOSPITALS AND INTEGRATED DELIVERY NETWORKS

Workshop Hours: 2:00 to 5:30 pm, December 16, 2005

**This intensive workshop is designed to meet the information needs of hospital and integrated delivery network executives and clinicians.**

This interactive workshop covers deployment of bar-code enabled medication management/administration, as well as other innovative applications of bar coding, including other patient safety-related applications, offering detailed and practical instruction on both design and implementation.

The workshop will delve into medication safety design principles, intended benefits, process issues, interdepartmental considerations, technologies, pre-implementation considerations, interfaces and integration issues, detailed workplans and timeframes, joint design or conference-room pilot techniques, testing and end-user training and deployment/rollout schedules. There will be a discussion of progress and improvements-to-date, as well as lessons learned.

There will be a discussion of the development and adoption of a data standard for information that should be contained in bar codes (e.g. patient wrist bands, oral and IV medications, medical devices and employee badges).

There will also be coverage of some other leading-edge applications of bar coding at hospitals and integrated delivery networks, including:

- Specimen identification
- Blood transfusion verification
- Interoperability between smart pumps and bar coding systems
- Supply chain management
- Breast milk verification

Attendees will have the opportunity to ask questions of our distinguished faculty.

## Workshop Leader:

***Michele Weizer Simon, PharmD, BCPS, Pharmacy Automation Coordinator, Department of Pharmaceutical Services, JFK MEDICAL CENTER***

*Michele Weizer Simon, PharmD, BCPS is the Pharmacy eMAR and Automation Coordinator at JFK Medical Center, Atlantis, Florida and associate professor at the University of Florida College of Pharmacy. Michele practiced for 10 years as a clinical pharmacist at JFK Medical Center before becoming the Director of Pharmacy Services at University Hospital and Medical Center in Tamarac, Florida from May 2001-2004. Michele was the facility eMAR project lead first at University Hospital and now at JFK Medical Center and was responsible for pre-implementation considerations, interfaces and integration issues, equipment selection, detailed workplans, timeframes, testing, training, roll-out and maintenance of the initiative. Michele's ASHP service includes Educational Affairs Council, Committee on Nominations, PAC Advisory Committee and House of Delegates (5 years). She is a past president of the Florida Society of Health-System Pharmacists and in 2003 was awarded the Pharmacist of the Year. Michele was also recognized as the Director of the Year at University Hospital for her efforts with regard to improving medication safety.*

## Workshop Instructors:

***Nathaniel M. Sims, MD, Physician Advisor, Partners HealthCare Biomedical Engineering, MASSACHUSETTS GENERAL HOSPITAL***

*Nathaniel Sims, MD is a clinician, teacher, cardiac anesthesiologist, and medical advisor to Biomedical Engineering at Massachusetts General Hospital (MGH). He is also an Assistant Professor of Anesthesia at Harvard Medical School. Dr. Sims is a strategic and hands-on innovator who has developed numerous technologies that make patient care safer and more efficient. Working in interdisciplinary teams involving biomedical engineering, nursing, and various hospital departments, Dr. Sims and colleagues have pioneered improvements in patient monitoring, patient transport, and error-free intravenous drug delivery systems. Their overall focus is developing advanced systems technologies to improve safety and patient care while reducing cost. Dr. Sims holds numerous US patents (rights assigned to MGH). He is now working through CIMIT on projects that move innovative technology into patient care. CIMIT is an organization involving MGH, Massachusetts Institute of Technology, the Draper Laboratory, and Brigham and Women's Hospital. Its mission is to improve patient care by bringing together scientists, engineers, and clinicians to catalyze development of innovative technology, emphasizing minimally invasive diagnosis and therapy.*

***Mike Wisz, Principal, MIKE WISZ & ASSOCIATES***
*Mike Wisz brings 17 years of experience working for leaders in healthcare technology, with emphases in point-of-care safety and mobile clinical information systems. Mike served in executive roles for a pioneer in BPOC technology, Bridge Medical, leading product management, field operations, business development, and customer support efforts. Mike worked with other pioneers: Pyxis, during its early days of establishing the point of use dispensing market and Nellcor Puritan Bennett, an early leader in the mobile clinical information system space. Mike holds a BA in Economics from the University of California, San Diego and an MBA from San Diego State University.*

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