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HIT Policy & HIT Standards Committees – PCAST Report Workgroup  
Hearing: February 15 & February 16, 2011

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**Overview of PCAST Report**

*Christine K. Cassel, MD, &  
Craig Mundie, PCAST Committee Members*

**Craig Mundie** is chief research and strategy officer of Microsoft Corp., reporting to CEO Steve Ballmer. In this role, he oversees one of the world's largest computer-science research organizations, and is responsible for Microsoft's long-term technology strategy. Mundie also directs the company's fast-growing healthcare-solutions business, along with a number of technology incubations. He routinely works with government and business leaders around the world on technology policy, regulation and standards.

Mundie has spent much of his career building startups in various fields, including supercomputing, consumer electronics, healthcare, education and robotics. He joined Microsoft in 1992 to create and run the Consumer Platforms Division, which developed non-PC platforms such as the Windows CE operating system; software for the Handheld PC, Pocket PC and Auto PC; and early console-gaming products. Mundie also started Microsoft's digital-TV efforts, acquiring and managing its WebTV Networks subsidiary.

Before his current role, Mundie served as Microsoft's chief technical officer for advanced strategies and policy, working with Microsoft Chairman Bill Gates to develop the company's global strategies around technical, business and policy issues. Another long-standing focus for Mundie is privacy, security and cyber-security. He initiated Microsoft's Trustworthy Computing initiative, which has leveraged new software-development practices to significantly improve the security of the company's products.

For more than a decade, Mundie has also been Microsoft's principal technology-policy liaison to the U.S. and foreign governments, with an emphasis on China, India and Russia. He has served on the U.S. National Security Telecommunications Advisory Committee and the Markle Foundation Task Force on National Security in the Information Age, and in April 2009 was appointed by President Barack Obama to the President's Council of Advisors on Science and Technology.

Mundie started his career in 1970, working on operating-system development for the Data General NOVA at Systems Equipment Corp. (SEC) while still studying at Georgia Tech. SEC was subsequently acquired by Data General Corp., where Mundie went on to develop the INFOS data-management system. In 1977 Mundie moved to Data General's

advanced development facility in Research Triangle Park, N.C., ultimately becoming its director. In 1982, Mundie was one of three co-founders of Alliant Computer Systems Corp., which developed vector-parallel mini-supercomputers. He held a variety of positions at Alliant before becoming CEO. The company shut down in 1992.

Mundie holds a bachelor's degree in electrical engineering and a master's degree in information theory and computer science from Georgia Tech. Mundie enjoys traveling and spending time on his boat. He is married, with one married daughter.

**Christine K. Cassel, MD**, President and CEO of the American Board of Internal Medicine and ABIM Foundation, was previously President of the American Federation for Aging Research and the American College of Physicians. She also formerly served as Dean of the School of Medicine and Vice President for Medical Affairs at Oregon Health & Science University, Chair of the Department of Geriatrics and Adult Development at Mount Sinai School of Medicine. During her 10 years at the University of Chicago Pritzker School of Medicine, she served as Chief of General Internal Medicine, Professor of Geriatrics and Medicine, Founding Director of the Robert Wood Johnson Clinical Scholars Program, and Founding Director of the Center for Health Policy Research. She is highly regarded in the fields of geriatric medicine, medical ethics and quality of care.

Dr. Cassel is one of 20 scientists chosen by U.S. President Barack Obama to serve on the President's Council of Advisors on Science and Technology and is co-Chair and Physician Leader of a PCAST working group that made recommendations to the President on issues relating to health information technology. She served on the Institute of Medicine (IOM)'s Comparative Effective Research (CER) Committee mandated by Congress to set priorities for the national CER effort. She also served on the IOM committee that wrote the influential report, "To Err Is Human" and "Crossing the Quality Chasm". In 2010, Modern Healthcare named Dr. Cassel among the 50 most powerful physicians.

Among her many professional leadership positions, Dr. Cassel is past-Chair of the ABIM Board of Directors and ABIM Foundation, served as Chair of the Board of the Greenwall Foundation, which supports work in bioethics; is immediate past-President of the American Federation for Aging Research; and was a member of the Advisory Committee to the Director at the National Institutes of Health. She is a member of the Institute of Medicine (IOM) Governing Council and has served on previous IOM committees responsible for influential reports on quality of care and medical errors, chaired a recent report on end-of-life care, and co-chaired a report on public health. In 1997-98, Dr. Cassel served on the President's Advisory Commission on Consumer Protection and Quality in the Health Care Industry. She is a fellow of the Hastings Center, a bioethics research institution.

Dr. Cassel was formerly Chair of the Department of Geriatrics and Adult Development and Professor of Geriatrics and Medicine at Mount Sinai School of Medicine in New York City. During 10 years at the University of Chicago Pritzker School of Medicine, Dr. Cassel was Chief of the Section of General Internal Medicine, Professor of Geriatrics and Medicine, Founding Director of the Robert Wood Johnson Clinical Scholars Program, and Founding Director of the Center for Health Policy Research.

### **Panel 1: Health Information Exchange & Healthcare Stakeholders**

*Carol Diamond, MD, Markle Foundation*

*J. Marc Overhage, MD, Indiana HIE Organization*

*Art Glasgow, Vice President and CTO, Ingenix*

**Carol Diamond, MD, MPH**, is the Managing Director of Health at the Markle Foundation, and Chair of Markle Connecting for Health, a public-private collaborative working to realize the full potential of information technology in health and health care in the United States. Markle Connecting for Health engages more than 100 diverse organizations and institutions in an approach rooted in core values, including achieving medical excellence, fostering patient participation, and protecting personal privacy. Since 2002, the many Markle Connecting for Health collaborators have steadily advanced public policy by establishing consensus solutions that tackle some of the most pressing challenges facing the widespread use of health IT to improve quality and control the costs of health care.

Diamond has testified before Congress on behalf of Markle and works with many private sector groups, government agencies, and health information technology bodies. She currently serves on the Health IT Standards Committee (a federal advisory committee), as well as the Privacy and Security Tiger Team (a subcommittee of the Health IT Privacy Committee). Diamond has also played a role with federal agencies and the health IT community in the development of KatrinaHealth, a secure website that made prescription medication histories available to doctors and pharmacists caring for evacuees whose medical records were destroyed in the 2005 hurricane.

Before joining Markle, Diamond was President of US Quality Algorithms® (USQA), Aetna US Healthcare's performance measurement affiliate. As USQA's President, she led a 400-employee business unit that developed and deployed sophisticated clinical and financial information products and services. Prior to joining USQA, Diamond was a consultant for Johnson & Johnson Health Care Systems and the Robert Wood Johnson Foundation.

Diamond is a member of the Advisory Board for the Dartmouth Institute for Security, Technology, and Society's Trustworthy Information Systems for Healthcare Project.

She earned her dual BA and MD degrees at the Medical School of the State University of New York at Brooklyn, and her Master's degree in Public Health at the University of Medicine and Dentistry of New Jersey of Rutgers University.

**J. Marc Overhage, MD, PhD, Director, Medical Informatics, Regenstrief Institute.** Dr. Overhage is also Professor of Medicine, Indiana University School of Medicine and President and CEO of the Indiana Health Information Exchange (IHIE). He has spent over 25 years developing and implementing scientific and clinical systems and evaluating their value. In collaboration with Dr. Clement McDonald, he has created an electronic patient record (called the INPC) containing data from many sources including laboratories, pharmacies and hospitals in central Indiana. The system currently connects nearly all acute care hospitals in central Indiana and includes inpatient and outpatient encounter data, laboratory results, immunization data and other selected data. In order to create a sustainable financial model, he helped create IHIE, a not-for-profit corporation. Over the last five years, he has played a significant regional and national leadership role in advancing the policy, standards, financing and implementation of health information exchange.

Dr. Overhage is also an expert in clinical decision support, including inpatient and outpatient computerized physician order entry and the underlying knowledge bases to support them.

Dr. Overhage is a member of the fellowship program's executive committee, and meets with the fellows weekly. Dr. Overhage provides mentoring for fellows' developmental projects and will aid in all efforts that require use of the Gopher workstations as the platform for the intervention and/or for obtaining data from physicians.

**Art Glasgow, Chief Technology Officer, Ingenix.** Arthur (Art) is the Chief Technology Officer for Ingenix. Art previously led Ingenix's Health Information Networks business and has been on the leadership teams of Ingenix's Health Care Delivery business and Payer and Government business. During his time at Ingenix, Art has demonstrated an ability to advance innovative, technology-driven solutions to the health care market. Prior to joining Ingenix, Art demonstrated critical industry leadership while at Misys Healthcare (now AllScripts) and Inflow, Inc. (now SunGard). While at Misys Healthcare, he served as the vice president and general manager of Revenue Cycle Solutions and was responsible for \$258 million of profit and liability spanning 14 products and nine service lines focused on ambulatory, payer, clearinghouse and data markets. At Inflow, Inc., he was the regional vice president of operations and was responsible for sales and operations encompassing five different \$15 million data centers across the Eastern United States.

Art holds his Bachelor of Science degree, with merit, in general engineering and history, from the United States Naval Academy in Annapolis, Maryland. He has also taken courses in international finance at Georgetown University.

**Panel 2: Patients / Consumer / Privacy Advocates**

*Donna Cryer, JD, CryerHealth Patient-Centric Solutions*

*Deborah Peel, MD, Patient Privacy Rights*

*Joyce Dubow, AARP*

*Lee Tien, Senior Staff Attorney, Electronic Frontier Foundation*

**Donna Cryer, JD**, Chief Executive Officer, CryerHealth, a healthcare consultancy based in Washington, DC, providing advocacy and alliance development expertise to top pharmaceutical, biotech, and diagnostic companies, as well as the largest patient and physician associations in the United States and abroad. She is dedicated to ensuring that the voices and views of patients and physicians are heard in healthcare decision-making.

A liver transplant recipient, Mrs. Cryer is a frequent blogger on patient advocacy issues under the name, DCPatient. She has been named to a five year term as a Patient Representative to the U.S. Food and Drug Administration, serves as an advisor to the Institute for Patient-Centered Design and has spoken on the topic of E-patients at the National Institutes of Health, American Association for the Advancement of Science, American Academy of Nursing, and World Health Innovation and Technology Conference.

An alumna of Harvard and Georgetown Law, Mrs. Cryer has been featured on CNN, Fox News, CBS Evening News, and NBC News. She currently serves on the Boards of the American Liver Foundation, and the advisory committee for the Women's Health Institute at Howard University. Mrs. Cryer is a member of the Women Business Leaders of the U.S. Health Care Industry Foundation, the American Society of Association Executives, and a former board member of the Healthcare Businesswomen's Association.

**Deborah C. Peel, MD**, is a Freudian psychoanalyst and health privacy expert. She founded Patient Privacy Rights in 2004, now with 12,000 members. PPR is the leading consumer watchdog for health privacy in the US. PPR speaks for Americans who want to control personal health data to protect jobs, opportunities, and their children's futures.

Dr. Peel also leads the bipartisan Coalition for Patient Privacy, representing 10.3 million Americans. Coalition principles form the core of the new consumer privacy protections in the stimulus bill: a ban on the sales of PHI without consent, audit trails,

segmentation, breach notice, encryption, and the right to prevent data disclosure to insurers if payment is out-of-pocket. From 2007-2009 she was one of ModernHealthcare magazine's "100 Most Powerful in Healthcare".

**Joyce Dubow** is Senior Health Care Reform Director in AARP's Office of the Executive Vice- president for Policy and Strategy, where she has responsibility for a broad health portfolio related to AARP's health care reform initiatives with a special focus on health care quality, HIT, and consumer decision making, as well as private health plans in the Medicare program. Dubow serves on several multi-stakeholder groups focusing on quality improvement. She was the first chair (and continues to be a member) of the Consensus Standards Approval Committee (CSAC) of the National Quality Forum. She is a member of the National Committee for Quality Assurance's Committee on Physician Programs and its Measurement Panel on Geriatrics; the National Advisory Committee for Aligning Forces for Quality of the Robert Wood Johnson Foundation; the National Committee on Evidence-based Benefit Design of the National Business Group on Health; the National Heart Lung Blood Institute Cardiovascular Disease Clinical Guideline Expert Panel and the National Advisory Board of the Practice Change Fellows Program. She also participates in the Hospital Quality Alliance, the AQA Steering Committee, the Markle Foundation's Connecting For Health program, as well as other ad hoc groups focusing on health care quality and consumer decision making.

In a "former life," Ms. Dubow was the executive vice-president of the Georgetown University Community Health Plan, a university-sponsored prepaid group practice plan. She was also the Director of Policy and Legislation in the federal Office of Health Maintenance Organizations.

Ms. Dubow holds a B.A. in Political Science from the University of Michigan and a Masters in Urban Planning from Hunter College of the University of the City of New York.

**Lee Tien** is a Senior Staff Attorney with the Electronic Frontier Foundation, a non-profit public-interest civil liberties organization based in San Francisco, California. He specializes in free speech and privacy issues, including privacy aspects of electronic health records. Since 2007, he has been active in the California Privacy and Security Advisory Board (CalPSAB) task force process as a consumer and privacy advocate. He recently testified on patient privacy at the Office of National Coordinator for Health Information Technology Roundtable on "Personal Health Records - Understanding the Evolving Landscape." He received his law degree from UC-Berkeley School of Law.

### **Panel 3: Population Health**

*Richard Platt, MD, Harvard Medical School, Distributed Health DataNetwork*

*Joyce C. Niland, Ph.D., Associate Director & Chair of Information Sciences, City of Hope*

**Richard Platt, MD, MSc**, is a professor and chair of the Department of Population Medicine at Harvard Medical School and the Harvard Pilgrim Health Care Institute. He is principal investigator of the FDA's Mini-Sentinel program, of contracts with FDA's Center for Drugs Evaluation and Research (CDER) and Center for Biologics Evaluation and Research (CBER) to conduct post-marketing studies of drugs' and biologics' safety and effectiveness. He chaired the FDA's Drug Safety and Risk Management Advisory Committee, is a member of the Association of American Medical Colleges' Advisory Panel on Research and the Institute of Medicine Roundtable on Evidence-Based Medicine. Dr. Platt was co-chair of the Board of Scientific Counselors of the Centers for Disease Control and Prevention's (CDC) Center for Infectious Diseases. Additionally, he has chaired the National Institutes of Health study section, Epidemiology and Disease Control 2, and the CDC Office of Health Care Partnerships steering committee. Dr. Platt is also principal investigator of a CDC Center of Excellence in Public Health Informatics, the CDC Eastern Massachusetts Prevention Epicenter, the HMO Research Network Center for Education and Research in Therapeutics (AHRQ CERT) and the AHRQ HMO Research Network DEcIDE Center.

**Joyce C. Niland, Ph.D.**, Associate Director, Professor and Chair, Information Sciences City of Hope. Dr. Joyce Niland is the Edward & Estelle Alexander Endowed Chair in Information Sciences at City of Hope National Medical Center. She received her Bachelors degree in Human Biology from Stanford University, a Masters degree in Physical Therapy from University of Southern California (USC), and Masters and Doctoral degrees in Biometry from USC. She is an Associate Director of City of Hope Cancer Center, Full Professor in the Beckman Research Institute, and adjunct Professor in the USC Keck School of Medicine. Dr. Niland has over 25 years of experience collaborating in translational research, and has published more than 100 biomedical research papers, numerous book chapters, and a text on informatics tools for clinical trials. She serves as expert reviewer for the NIH and several Cancer Centers, and is Associate Editor for two biomedical journals. Dr. Niland directs the national Data Coordinating Centers for the Integrated Islet Distribution Program for Type 1 diabetes research, the Intestinal Stem Cell research consortium, and the National Comprehensive Cancer Network outcomes research project. She has co-chaired the Study Conduct Working Group of the National Cancer Institute's Cancer Biomedical Informatics Grid (caBIGTM) initiative. Dr. Niland is an elected Fellow of the American Statistical

Association (ASA), and has served as Vice President of the ASA and Scientific Secretary of the International Association of Statistical Computing. In 2004 she received the City of Hope Medical and Scientific Achievement award for her contributions to biomedical research. She is the first holder of the Edward and Estelle Alexander Chair in Information Sciences.

#### **Panel 4: Providers and Hospitals**

*Sarah Chouinard, MD, Medical Director, Primary Care Systems, Inc. and Community Health Network of West Virginia*

*John E. Mattison, MD, Kaiser Permanente*

*Scott Whyte, Catholic Healthcare West, provider using middleware*

*Kevin Larsen, MD, CMIO, Hennepin Co, (Hospital CareEverywhere)*

*Theresa Cullen, MD, Indian Health Service, HHS*

**Sarah Chouinard, MD**, is the Medical Director of Primary Care Systems, Inc. She has a degree in neurobiology from the University of Vermont and has conducted scientific research at the University of California. She is a graduate of Marshall University's School of Medicine and served as chief resident in the family medicine residency program. Since 2003, in addition to serving as the Medical Director of Primary Care Systems, Inc. (an FQHC in Clay, West Virginia), she has served as the Chief Clinical Advisor for the Community Health Network of West Virginia. In recognition of her efforts, Dr. Chouinard now serves as an advisor to the West Virginia Medicaid Program and the West Virginia Health Improvement Institute (WVHII) on health system transformation and pay-for-performance initiatives. Dr. Chouinard is the lead physician for the Meaningful Use Vanguard Group for the WV Regional Extension Center. She also has had the opportunity to participate in an expert panel for NORC and with HRSA for health system realignment. . She is a member of the West Virginia Health Information Network board of directors, WV's state HIE agency, and assists with the clinical initiatives of the WVHII. She serves on NORC's Technical Expert Panel Teleconference for the Study and Report to Understand the Impact of Health Information Technology in Underserved Communities and Those with Health Disparities. She was recognized by the West Virginia Rural Health Association as "Rural Practitioner of the Year" in 2008 and was recently featured in stories by Governing magazine and CNN on HIT and health reform. She is a co-founder of the Fayetteville Skate Park, a multi-faceted recreational facility promoting physical activity and wellness for youth and adults in southern WV.

**John E. Mattison, MD**, Chief Medical Information Officer, Kaiser Permanente,

**Scott Whyte**, Vice President Clinical Systems, Catholic Healthcare West. Mr. Whyte is the Senior Director of Physician and Ambulatory IT Strategy at Catholic Healthcare West (CHW). In his role, he oversees IT strategy and advanced IT projects to serve physicians and patients in CHW's communities. His role includes leading CHW's IT planning for the American Recovery and Reinvestment Act (ARRA), the Patient Protection Affordable Care Act (ACA) and Health Information Exchanges. Prior to joining CHW in 2005, Mr. Whyte was Vice President and CIO at Phoenix Children's Hospital and has spent over 17 years consulting with Ernst & Young, Siemens Medical Solutions and Capgemini to hospitals, health insurers and life sciences companies. He has spoken nationally on topics including portals, health information exchanges and genomics. Mr. Whyte currently serves on the State of California's HIE Technical Advisory Board (Cal eConnect). He also founded and served as Co-Chairman of the HL7 Clinical Genomics Special Interest Group, which is working with an international team of physicians, biopharmaceutical specialists, bioinformatics specialists and regulators to develop an international data exchange standard for genetic information.

Mr. Whyte graduated from the University of Arizona magna cum laude with a B.S.B.A. in Management Information Systems and magna cum laude with a B.A. in Economics. He is active in the community as a board member for the Juvenile Diabetes Research Foundation (JDRF) and a board member of his local church. Scott and his wife Elise have four children and reside in Paradise Valley, Arizona.

**Kevin Lee Larsen, MD**, is the Associate Medical Director for Informatics/Chief Medical Information Officer (CMIO), and Associate Program Director of the Internal Medicine Residency Program at Hennepin County Medical Center in Minneapolis, Minnesota. He is also an Assistant Professor of Medicine at the University of Minnesota and a physician leader in the Electronic Health Record at Hennepin County Medical Center.

Dr. Larsen graduated from the University of Minnesota Medical School and was a resident and chief medical resident at Hennepin County Medical Center. He subsequently became a hospitalist at Hennepin County Medical Center on the cardiology teaching service. In this position he received "teacher of the year" by the internal medicine residents in 2002 and twice was voted "teacher of the year" by the transitional residents.

His research includes inpatient glycemic control, education around medical procedures, and health literacy in immigrant populations. He is the Medical Director for the Center for Urban Health, a hospital and community collaboration to eliminate health disparities. He has given workshops at a number of Society of General Internal Medicine (SGIM) regional and national meetings, national APDIM, and local ACP

meetings, many involving immigrant health, health literacy, and international medical education.

In 2007 he was presented with an International Health Award for his work with the OSDJ Healthcare Initiatives in Jamaica in collaboration with the Medical Association of Jamaica, the Ministry of Health, the Faculty of Medical Sciences, the Organization of Strategic Development in Jamaica, and the International Leadership Institute.

**Theresa Cullen, MD**, Director, Office of Information Technology, Indian Health Service, Department of Health and Human Services.

#### **Panel 5: Technical Panel**

*Michael Stearns, MD, CEO, e-MDs, Small EHR Vendor*

*Hans J. Buitendijk, M.Sc., HS Standards & Regulations Manager, Siemens Healthcare*

*John Melski, Marshfield Clinic, homegrown EHR*

*Edmund Billings, Medsphere*

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**Michael Stearns, MD**, President and CEO, e-MDs. Dr. Stearns is a board certified neurologist and one of the more experienced physician health care informaticists in the nation. He has won several teaching awards and has 15 years of experience in clinical and academic medicine where his responsibilities included educating medical students and neurology residents. With more than 10 years of experience in the health information technology sector, Dr. Stearns has provided leadership to several high profile projects at the National Library of Medicine, the National Cancer Institute, and the College of American Pathologists. Dr. Stearns played a key role in the development of SNOMED Clinical Terms, an evolving standard for the electronic transmission of clinical information being adopted worldwide. He also has over 8 years of direct experience with the design and implementation of electronic health records. Dr. Stearns is a Certified Professional Coder and Certified Family Practice Coder.

He has given numerous presentations at national and local venues on a diverse array of topics related to health information technology including electronic health records, health care information technology standards, health information exchanges, coding, clinical terminology, structured data capture, data integrity in information systems, the history of ICD-9-CM, SNOMED CT, quality of care improvements related to technology, clinical efficacy research, practice optimization, and genomic medicine. He is a member of the American Society of Health Information Managers Health IT Industry Advisory Panel, the Health Information Technology Standards Panel, and the American Association of Professional Coders' Family Practice Steering Committee.

**Hans J. Buitendijk** received his Master degree in Science in Management Science and Industrial Engineering from the Eindhoven University of Technology, The Netherlands.

Hans has more than 26 years of development and consulting experience in strategic IT planning, healthcare application development and implementations, large-scale business process re-engineering and systems integration, and complex project management, bridging the gap between business process optimization and IT support. Currently, he is the Standards & Regulations Manager for Siemens Healthcare Health Services.

Hans also actively participates in HL7 International™ as co-chair of the Orders and Observations Work Group, co-chair of the Clinical Statement Work Group, Treasurer of the HL7 Board of Directors, and as a member of various HL7 Board committees. He also became an Inaugural Fellow of HL7 in September 2010.

**John W. Melski, MD**, Clinical Informatics Medical Director, Marshfield Clinic. Dr Melski joined Marshfield Clinic in 1983 as a dermatologist and has been medical director of Clinical Informatics for the Clinic system since 2001. As Clinical Informatics medical director, Melski oversees development or evaluation, implementation and management of clinical information systems in the Marshfield Clinic system. He works with the Clinic's Chief Information Officer and is responsible for coordination of efforts with the Chief Medical Officer, Medical Director of Quality Improvement, Medical Director of Reimbursement, Director of Marshfield Clinic Research Foundation, Director of the Division of Laboratory Medicine and Medical Director of Security Health Plan of Wisconsin, Inc., Marshfield Clinic. He has been instrumental in the development of an electronic medical record for Marshfield Clinic that is over a decade old.

In March 2001, he testified before a House Subcommittee on Health Insurance Portability and Accountability Act (HIPAA) regulations. He serves in a number of Clinic leadership roles and on committees involved with Information Systems functions.

He received his medical degree from Johns Hopkins University School of Medicine in Baltimore, Maryland. He completed a residency in internal medicine at Mary Hitchcock-Dartmouth Medical Center in Hanover, New Hampshire; a research fellowship in computer medicine at Beth Israel Hospital, Boston, Massachusetts; and served his dermatology residency at Massachusetts General Hospital, Boston, Massachusetts, where he was chief resident. Melski is board-certified in internal medicine and dermatology. He has served on the Clinic's Computer Committee; Quality Assurance Committee; Information Systems Task Force; Marshfield Clinic Research Foundation Computer Committee; and the Information Systems Steering

Committee. He has chaired the Clinic's Computer Committee and Electronic Medical Record Subcommittee. Melski also is on the Clinic's work group for Marshfield Enhanced Charting and Code Acquisition (MECCA) and had served for three years on the Clinic's Executive Committee. For nine years he served as Advisory Editor for MC Computing.

**Edmund Billings, MD**, Chief Medical Officer & Executive Vice President, Product, Medsphere. A seasoned healthcare information technology (IT) entrepreneur, Dr. Edmund Billings helped pioneer the development of electronic medical records (EMR).

In 2007 Edmund co-founded Open Health Data, an open source company formed to leverage the transition of healthcare data from creation and sharing to use and reuse. Several years prior he co-founded Billings Brand Development, a firm focused on improving physician practices through information technology and practice automation solutions. During this period, he developed the Voice of the Physician™ methodology, which drives the definition, validation and adoption of products by networks of physician practices.

In 1988 he co-founded Oceania, a company that collaborated with Kaiser Permanente to pioneer EMR design and technology. He has also served as chief medical officer for both adam.com and Precurrence, two San Francisco-based development partners focused on the syndication of multimedia health content.

Edmund trained in general surgery at the University of California, San Diego, and practiced emergency medicine for several years at Kaiser Permanente. A graduate of the University of Vermont College of Medicine, Edmund completed post-doctoral fellowships at Massachusetts General Hospital and the Shriners Burn Institute. He earned his bachelors degree focused on premedical training from Tufts University.

A key contributor to Medsphere's Healthcare Open Source Ecosystem, Edmund is also a member of other communities, including Open Health Tools, an open-source community with a vision of enabling a ubiquitous ecosystem where members of the Health and IT professions can collaborate to build interoperable systems that enable patients and their care providers to have access to vital and reliable medical information at the time and place it is needed.