

Keeping Patients at Home: Advances in Telemonitoring

With home health care costing consumers and health care coverage providers over \$40 billion a year, medical professionals and medical technology companies are developing innovative ways to deliver better care at lower costs for home-bound patients.

Keeping Patients at Home: Advances in Telemonitoring features a panel of medical experts and technology professionals discussing the latest advances enabling medical professionals to monitor, diagnose, and treat at-home patients.

Remote sensing and telecommunications technologies such as remote wireless sensors, automated interactive voice response (IVR) systems for in-home monitoring, and Embedded Internet Information (EII) enable elements of the patient's physical environment to be turned into a data interface. This enables objects such as lamps, mirrors, and domestic appliances to act as virtual screens of digital information.

Panel:

Dr. Diane Feeney Mahoney, Mohr Research Professor of Gerontological Nursing and Director of Gerontology R&D at Massachusetts General Hospital's Institute of Health Professions

Douglas McClure, Corporate Manager for Technology Services, Partners Telemedicine

John Ryan, Senior Product Manager, Philips Medical Systems

David Rose, Founder and Chief Creative Officer, Ambient Devices

Moderator:

Mel Prenovitz, Founding Principal, The Incus Group

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Panelists:

Diane Feeney Mahoney, PhD, GNP, Director of Gerontechnology and Enhancing Family Caregiving, Hebrew Senior Life's Research Institute

Diane Feeney Mahoney PhD, GNP is Director of Gerontechnology and Enhancing Family Caregiving at Hebrew Senior Life's Research Institute, Boston. In August she will become the first Mohr Professor of Gerontological Nursing Research at the Massachusetts General Hospital's Institute of Health Professions, Boston where she will continue her technology and aging research program. Mahoney received her PhD in 1989 from the Heller School at Brandeis University. She is a fellow of the Gerontological Society of America and on the research and funding committees for the Center for Aging Services Technologies (CAST), a corporate, academic, practice collaborative to accelerate elder technology related R&D.

She is a social scientist, geriatric nurse practitioner, and gerontechnologist who has been developing and testing innovative ways to use telecommunication based technologies with frail and cognitively impaired older adults and their family caregivers for over a decade. Under the aegis of the Dept of Commerce Technology Opportunity Program (TOP, 2001-4) she tested remote wireless computational sensor technology designed to help working caregivers monitor frail elders residing alone at home. She received the Alzheimer's Association/Intel Co. first technology grant to adapt her sensor based program for use in assisted living facilities (ETAC2004-7) and with nurse practitioners (NIH/NINR 2005-7). Previously she conducted a randomized clinical study of a computer mediated automated telephone interactive voice response (IVR) system designed to support family caregivers of people with Alzheimer's disease as part of the National Institute on Aging funded national REACH project (1995-2002). In 1995 she conducted the first longitudinal qualitative analysis of an Internet based virtual support group for family members of persons with Alzheimer's disease. Through the aegis of an Alzheimer's association grant she and her team developed a computer based interactive multimedia program that successfully taught older adults to recognize the differences between normal forgetfulness and more serious memory loss associated with Alzheimer's disease (1999-2001). Mahoney specializes in developing prototype applications for intervention testing that are relevant and tailored to the end user's needs and wants, as well as having policy and practice relevance.

Douglas J. McClure, MIM, Corporate Manager for Technology Services, Telemedicine Group, Partners Healthcare

Douglas J. McClure, MIM is the Corporate Manager for Technology Services in the Telemedicine group for Partners HealthCare. Overseeing telemedicine technology operations, technology research and development, and finance, Mr. McClure draws upon his earlier application development, financial, and managerial experience in several national information technology consultancy organizations. Mr. McClure received his Masters in International Management from the University of Denver in 1994. Mr. McClure's research interests focus on the human technology interfaces in the remote healthcare setting.

John Ryan, Senior Product Manager, Philips Medical Systems

John Ryan is a Senior Product Manager for *Motiva™*, the Philips interactive platform for population health management. Prior to Philips, John worked as Product Manager at Aspen Technology, bringing to market the Aspen Enterprise Platform™, an integration solution that was deployed at over 100 locations worldwide. Prior to AspenTech, John was a consultant at McKinsey & Co. and Deloitte Consulting, focusing on operational and strategic issues for clients in the high technology, health care, and manufacturing industries. John holds an MBA from Kellogg, a M.S. Industrial Engineering in Health Systems from the Georgia Institute of Technology, and a B.A. from SUNY Albany, where he graduated Summa Cum Laude and Phi Beta Kappa. He is a VP of NETSEA (New England Technology Sales, Marketing, & Business Development Executives Association).

David Rose, Founder & Chief Creative Officer, Ambient Devices

David Rose is a technology visionary and serial entrepreneur. At Ambient Devices he is pioneering the new consumer category of glanceable technology: embedding Internet information in everyday objects (lamps, mirrors, watches and wearables) to make the physical environment an interface to digital information.

Previously, Rose founded Viant's Innovation Center, an advanced technology group for Fortune 500s including Sony, GM, Schwab, Sprint, Compaq and Fleet. He helped build Viant to over 900 people, \$140M in revenues and a successful IPO (NASDAQ:VIAN). In 1997 Rose patented online photosharing and founded Opholio (acquired by FlashPoint Technology). Before the Internet he founded and was President of Interactive Factory (acquired by RDW Group) which creates museum exhibits, educational software and smart toys, including the award-winning LEGO Mindstorms Robotic Invention System.

Rose teaches Information Visualization at the Harvard Graduate School of Design and is a frequent speaker for corporate research departments and conferences. He received his BA in Physics from St. Olaf College, studied Interactive Cinema at the MIT Media Lab, and earned a Masters Degree from Harvard University.

Moderator: Mel Prenovitz, Principal, Incus Group

Melvin Prenovitz is a founding Principal of the Incus Group providing interim management and consulting services to a broad range of industries. Mr. Prenovitz concentrates on the medical device and healthcare fields. The Incus Group includes Incus Ventures, a funding source for early-stage companies.

Mr. Prenovitz was the founder of MP Video, a pioneer of Minimally Invasive Surgery that private labeled video cameras for more than half of all surgical optics companies achieving more than 50% worldwide market share for five consecutive years. MP Video maintained a 40% compounded growth rate for twelve continuous years and was sold to a NASDAQ listed medical device company.

Following the sale of the company Mr. Prenovitz has maintained a consulting practice and has been involved in several startups within the Healthcare and Medical Device industries.

Mr. Prenovitz received a BSBA from Babson College and completed graduate certificate programs at Babson's Executive Education Program.