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EVALUATING ELECTRONIC HEALTH INFORMATION EXCHANGE: AN EXEMPLAR OF THE SCIENCE IN CLINICAL INFORMATICS

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208 LIGHT HALL
EVALUATING ELECTRONIC HEALTH INFORMATION EXCHANGE: AN EXEMPLAR OF THE SCIENCE IN CLINICAL INFORMATICS

Issues with care coordination and access to fragmented health information are among the key problems impacting the quality and safety of health care today. For years, stakeholders have proposed the use of health information exchange systems (HIE) among care sites to mitigate these communication issues. These systems use state-of-the-art technologies to transmit, store, retrieve, intelligently aggregate, and display semantically-related data, regardless of where in a healthcare system it originated, and with full attention to data privacy and system security constraints. However, there is much to learn about how to develop, implement and improve HIE systems to support real-time and usable exchange of health information.

Using an often-cited framework that categorizes areas of scientific inquiry in clinical informatics, this talk will summarize what we have learned about the model used to create the HIE currently in place in the Memphis Metropolitan Statistical Area. I will specifically discuss research that validates the HIE model used in that region, as well as process changes associated with HIE adoption. I will conclude by presenting data about the general and disease specific outcomes, including the financial impact of HIE in the region.

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Dr. Johnson is an internationally-respected developer and evaluator of clinical information technology. After graduating from the Johns Hopkins University School of Medicine, he completed a pediatric residency and chief residency at Hopkins, followed by a Masters of Science in Medical Informatics from Stanford University in 1992. He was recruited to Vanderbilt University School of Medicine in 2002. His research interests have been related to developing and encouraging the adoption of clinical information systems to improve patient safety and compliance with practice guidelines; the uses of advanced computer technologies, including the Worldwide Web, personal digital assistants, and pen-based computers in medicine; and the development of computer-based documentation systems for the point of care.

He is the author of over 100 publications and books or book chapters and is Associate Editor for the preeminent journal in biomedical informatics (JAMIA). His knowledge about electronic health records and patient safety has led to appointments on three Institute of Medicine committees focused on medication safety and pediatric health care quality measures. He was elected into the American College of Medical Informatics in 2004, the American Pediatric Society in 2010, and the Institute of Medicine in 2010.

Recent projects include leading evaluation of the AHRQ and Tennessee-funded State and Regional Demonstration Project for Health Information Exchange in West Tennessee, AHRQ funding to evaluate the impact of e-prescribing decision support on pharmacy callbacks, and a RWJ funded effort to develop state-of-the-art applications utilizing personal health records, under their Project HealthDesign Initiative.