

Biomedical Informatics Grand Rounds

Wednesday, October 4, 2023

3:00 pm – 4:00 pm



Addressing the Translational Challenges of an Enterprise-Wide Precision Medicine Initiative using Informatics

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Location: In Person – HSC L2-2AB

Remote Access

Join Zoom Meeting <https://stonybrook.zoom.us/j/95617197636?pwd=KytzZ2pVRG9SZGpKZUtpNXJISjNjZz09>

Meeting ID: 956 1719 7636 Passcode: 924293

Abstract: In this presentation, I will describe how MUSC is using Fast Healthcare Interoperability Resource (FHIR) standards to address the challenges of automated recruitment and enrollment of 100,000 persons in a precision medicine initiative. Having completed enrollment of more than 30,000 persons over the past two-years, I will discuss the how standards make automation of consent and enrollment possible, our overall enterprise architecture, as well as other lessons learned so far from the project so far. I will also describe how we are working to apply resulting genomic data to address to accelerate translation and translational science.

Bio: Dr. Lenert is Associate Vice President for Data Science and Informatics, Chief Research Information Officer, Professor of Internal Medicine, and SMART State Chair in Healthcare Quality at the Medical University of South Carolina (MUSC). He is also Vice President and Chief Medical Officer for Health Sciences South Carolina (HSSC) and Adjunct Professor of Computer Science and Engineering at the University of South Carolina.

Dr. Lenert is a primary care physician with a 20-year history of research and development work in informatics and predictive analytics. He was a pioneer (1990's) in the development of web-based systems for patient use and online research studies. In response to 9-11 attacks, Dr. Lenert led a team of engineers and computer scientists that developed the first wireless "location-aware" EHR system for first responders. In 2007, Dr. Lenert became the founding Director of the National Center for Public Health Informatics at Centers for Disease Control and Prevention (CDC). There he managed the development of key national biodefense computer systems, including BioSense System. He also led efforts to integrate public health data systems with the Nationwide Health Information Network. At the MUSC, Dr. Lenert is helping to change what is possible by creating the infrastructure for a campus wide learning health system. At HSSC and SCTR, he is working to extend these programs across the state of South Carolina. Dr. Lenert has published extensively on the application of data mining methods to medicine, including two articles in JAMA. An internationally recognized expert in informatics, he is a fellow of the American College of Medical Informatics and has won awards for his research work from the Pharmaceutical Manufacturers Association, the American Federation for Clinical Research, and the American Medical Informatics Association.

Disclosure Statement: The faculty and planners have no relevant financial relationship with ineligible companies, whose primary business is producing, marketing, selling, re-selling, or distributing health care products used by or on patients.

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