



Biomedical Informatics Grand Rounds



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The mismatch between hospital flow and patient need: a broken system

Wednesday, Apr 10, 2019 3pm—4pm

BMI Conference Room HSC-L3 Room 045

Abstract:

Increasing hospital efficiency, improving patient experience, and reducing costs is critical not only for Stony Brook University Hospital but also for all healthcare systems. To deliver more efficient health care, a data-driven approach is used to analyze and understand the flow of patients through the emergency department, as well as healthcare delivery on the floors. The data-driven approach can be used to decrease length of stay and is important in managing patient flow throughout their stay. Distribution of the health care evenly over time equilibrates work for providers across different shifts, decreases length of stay, and increases hospital efficiency. This work shows that by increasing services to inpatients over weekends and holidays, their length of stay can be significantly shortened.

Bio:

Dr. Viccellio joined the faculty at Stony Brook in 1988. Under his leadership, Emergency Medicine became a Department in the Medical School. He also served as the department's first residency director. He was appointed Vice Chairman and later Clinical Director of the Emergency Department. Dr. Viccellio has instituted a full capacity protocol at Stony Brook University Hospital which has been emulated nationwide, with data demonstrating impact on patient flow, patient safety, length of stay and patient satisfaction. Dr. Viccellio is the editor of Handbook of Toxicology (Lippincott & Raven). His areas of research include emergency department and hospital overcrowding, patient safety, medical errors, head and cervical spine injuries, and residency education. Dr. Viccellio has served in numerous leadership positions at the state and national levels of the American College of Emergency Physicians and the Society for Academic Emergency Medicine. He is a frequent lecturer on emergency medicine topics at the local, state, national, international conferences.

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