Medical Device Alarm Management

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Cudahy Hall, Room 401

To improve the efficiency and effectiveness of healthcare systems, providers are relying on evidence-based approaches to inform practice. One system where an evidence-based approach has largely not been applied is Smart Infusion Pumps (SIPs). SIPs are an increasingly common way for healthcare providers to administer intravenous (IV) medications. One differentiating feature of SIPs is their ability to alert nurses that an improper dose, concentration, or rate of infusion has been entered into the pump. This feature is particularly useful due to the severity of errors with IV medications. SIP and other medical devices generate thousands of alarms based on thresholds and settings. The Emergency Care Research Institute (ECRI) identified alarm hazards as the number one health technology hazards for 2015. It was also ranked as the number one medical device technology hazard in 2012. This talk will focus on the project Infusion Pump Informatics (IPI) that is collecting SIP data from 122 facilities throughout USA and helping to improve patient safety by reducing the alarm fatigue and increasing compliance rate. Moreover the talk will focus on the impact in broader domain of healthcare and future research opportunities.

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For further information: see http://www.marquette.edu/mscs/resources-colloquium.shtml or contact Dr. GG Hamedani #414-288-6348, gholamhoss.hamedani@marquette.edu

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