Perception and Use of a Novel Health IT Application to Improve Care and Family Engagement in Pediatrics ICU

Presented by
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Despite the rapidly spreading adoption of health information technology (HIT), it is unclear whether the potential of these technologies have been realized. One explanation is the “Field of Dreams” fallacy, which questions the belief that simply implementing a technology guarantees its use. Regardless of the purported quality of the technology or the fact that a given HIT was installed, ultimately, it is the perceptions of those intended to use the technology that determine both its use and whether potential benefits are realized. In addition, studies show that HIT has the potential to improve patient/family-centered care and engagement, a recent “hot topic” in healthcare research. However, it is unclear if there is evidence to support designing technologies to engage this population. Thus, more developmental research is needed on new types of technology that could potentially improve patient/family engagement. To address this gap in the literature, we studied provider and family perceptions and use of a specific technology: Large Customizable Interactive Monitor (LCIM). The findings of this pilot study will inform future interventional studies.

About the Speaker:
Dr. Asan completed his Ph.D. in Industrial Engineering at University of Wisconsin-Madison, specializing in human factors engineering. He also holds a minor degree in Applied Statistics. Dr. Asan is primarily interested in the application of theory, methods, and design from the discipline of human factors engineering to understand and enhance health care systems; in particular, interaction between people and technology (socio-technical system) in health care. He is especially interested in exploring new patient-centered health IT which can facilitate communication and information sharing between patients and health care providers and contribute to improving patient/family-centered care in inpatient and outpatient settings. His current research focuses on how electronic health records (EHRs) impact doctor-patient interaction overall and how EHRs can be used as a communication and patient education tool which can potentially enhance patient engagement. Dr. Asan also conducts research on the impact of EHRs on workflow, workload and patient safety, and how EHR use impacts cognitive workload of providers. Dr. Asan has a human computer interaction lab space which is equipped with various research tools and technology: a) Noldus Observer; the Observer XT 11 is a professional and user-friendly event logging software for the collection, analysis, and presentation of observational data, b) Tobii X2-30 Eye Tracker and Tobii Studio-Professional, and c) portable usability lab.