

Public Abstract

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Department:Health Informatics

Degree:MS

Title:DESIGNING A HOLISTIC PROTOTYPE AND EVALUATING THE REQUIREMENTS OF LONG-TERM CARE ELECTRONIC HEALTH RECORD

Our research is aimed at exploring the design requirements of long-term care information system or electronic health record based on the needs of the care providers. It helped in evaluating the current status of long-term care EHRs and how it could be enhanced through data collected by interviews with long-term care providers. The considerations for the design was framed by investigating the current long-term care electronic health record status and how it could be improved by analyzing an aging in place model of care, TigerPlace that supports independent living for the elderly. Evaluation was done on the technology employed at TigerPlace and how can be extended to other long-term care facilities. TigerPlace is equipped with three disparate systems for storing residents'™ health information. A prototype was designed through a single interface, using a human-centered framework to holistically represent information from three disparate systems at TigerPlace, and by conducting face-to-face interviews with a couple of care providers in the long-term care, in order to understand their information needs. The information collected through interviews was used to understand the problems and concerns of long-term care providers and how it could be used to enhance current long-term care electronic health record systems.