Heather A Nolette, Adv Practice Nurs 2018, Volume 3
DOI: 10.4172/2573-0347-C6-032



# Does a real-time surveillance warning tool promote timely intervention with deteriorating patient conditions?

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A real-time surveillance warning tool is an innovative application that is integrated within the electronic medical record. It utilizes established data sets from nursing assessments, labs and vital signs. The organization utilized an evidence-based scoring system that produces a Rothman Index Score to predict impending failure. The Rothman Index Score is then trended on a graph that can depict patient deterioration. The graphs were setup to display within the patient's electronic medical record, computer workstations and kiosk monitors. The fundamental goal of this qualitative study was to reduce the time between initial physiological signs of deterioration and recognition of that, thereby reducing incidence of cardio-respiratory failure. This was done using an evidence-based tool that incorporates existing clinical data into a score that alerts the clinicians to potential failure sooner. The outcomes can be co-related to the implementation and external services involved. In 2017, rapid response calls declined an average of 6.5 calls per quarter compared to 2016. They declined by 78 calls or 24% from 2016 to 2017. In 2017, cardio-respiratory failure declined an average of 5 calls per quarter compared to 2016. They were reduced by 61 cardio-respiratory failures or 84% from 2016 to 2017. The development of the sustainability practice model emerged from the literature review. It provides structure, sustainability and management for a surveillance warning tool. Intellectual competence, expertise and scientific inquiry are not replaced. This is a tool that provides additional analytical considerations to prevent a failure to rescue.

## Biography

Heather A Nolette has completed her BS in Nursing at Plattsburgh State University, New York. She has over 21 years of experience in healthcare striving to improve clinical outcomes at the bedside with the use of innovative technology. She is an Information Technology Project Manager, Clinical Informatics Analyst IV, Practicing Registered Nurse and Adjunct Nursing Instructor. She has been involved in several information technology projects and research/evidence-based practice initiatives. She serves on the: Informatics and Technology Committee; ISS Executive Steering Committee; New Knowledge, Innovation and Improvement Committee; and PeraHealth Product Advisory Council.

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