



Mayo Case 2012-202: Bedside Patient Rescue

Problem

Inpatient hospitality mortality occurs in a low number of patients without obvious indications of decline, until their condition is not recoverable. The ability to recognize subtle shifts in their condition is difficult in the hospital care process, due to the number of patients being cared for, EMR interface complexities, cognitive workload of provider team, and other factors.

Solution

BPR has developed an EMR data tracker, combined with a risk predictive analytics score logic, to monitor patient condition changes, and provide alerts to the provider team when a patient's risk of deterioration rises. These alerts can be used to trigger care interventions, as defined by the user organization. The predictive analytics apply logic and factors that are more complex than it is reasonable to expect a person to process in a normal care setting, with a demonstrated higher predictive value.

Benefit

The BPR tool performs consistent monitoring of all patients, relieving the provider team's mental burden while enabling a more standardized language and approach to care escalation. This results in quicker response to a patient's declining condition, resulting in fewer preventable deaths and lower hospital mortality rates. This also frees up the provider team to focus on the patient they are currently caring for, while knowing the system will prompt them if another of their patient's condition shifts, which improves provider satisfaction. Financially this translates into lower liability exposure, staff turnover rates, and quality performance penalties.

State of Development

The technology has been deployed in a series of pilot demonstration projects at Mayo Clinic.

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