

Care at Arrival – Emergency Department Model for Improving Time to Care & Patient Throughput with a Physician in Triage

Overview Problem Statement: In 2011, due to emergency department overcrowding, increased overall ED length of stay, and hospital capacity challenges such as inpatient/psych patient boarding in the ED, patients arriving to Northwestern Memorial Hospital's Emergency Department experienced prolonged delays to receive a medical screening examination These delays created potential safety risks for those patients sitting in the waiting room for protracted periods of time without a medical evaluation. During the 2011 summer benchmark period, only 35% of patients saw a physician within 30 minutes of arrival. The median Door-to-MSE was 44 minutes. The delays also resulted in large numbers of patients leaving the ED without receiving a MSE (know as "LWBS" - left without being seen), at a rate of 4.6%, equating to an average of 12 patients leaving per day. In order to address this worsening problem, the Emergency Department piloted a new model of care with a physician in triage, known in the department as Care At Arrival (CAA). Two variations of this models were piloted; the first in the summer of 2012 with a physician in triage 3 days/week, and the second, during the summer of 2013 with a physician in triage 5 days/week. The objective was to minimize the number of patients leaving prior to the initiation of a MSE by initiating care sooner. ·Goal/Benefit: • % of patients with a MSE initiated within 30 min •LWBS rate will decrease by 25% from 4.6% to 3.5% of arrival (ESI Level II), and within 60 min (ESI Scope: All Emergency Department Patients. · LWBS rate • Press Ganey Overall Patient Satisfaction •Deliverables: Develop a model that minimizes the number Secondary Metrics: of patients leaving before the initiation of a MSE · Length of Stay (LOS) for discharged patients

Analyze: Root Causes of Delays Process Step Potential for delay Comment The physical line that forms is not ideal for comfort or privacy •Waiting in line for T1 Patient does not know about the T1 process (crowded, at doorway, can overhear conversations). Can we change the configuration of the line to be more patient friendly? and sits down ·Waiting in line for registration Registration •Volunteers completing registration duties We have to go back to the beginning and consider the objective of triage. What is the purpose of triage? The purpose of triage is to "prioritize incoming patients and to identify those who cannot wait to •Wait in line for T2 •Practice variation of the T2 nurses •No way to prioritize queue for T2 • Not using the ESI algorithm be seen "1. So, if capacity is available and there is no wait, what is the point of prioritizing before placement? If the whole purpose is to identify those who can't wait to be seen, are we succeeding if patients are waiting even for triage itself? Are we meeting suggested wait times in our model (immediate - immediately; emergent - 1-14 minutes; urgent - 15-60 minutes; semi-urgent - 1-2 hours)? While the ESI process definitely has value, we need to reassess the value and safety of our current triage system in place.2 •Waiting after T2 when all ED beds are full •Patient doesn't match placement criteria of Post T2 space (ie. Red patients waiting when team 4 •Waiting after T2 when ED is not full to staff •Waiting after T2 when ED is not full to staff •Culture that every patient goes back after T2

Door-to-EKG completion





