stakeholders and completed a process map. We obtained baseline data regarding the median time to ECG in both patients with STEMI and all patients presenting with chest pain. Root cause analysis determined two main barriers: access to designated space to obtain ECGs, and the need for patients to be registered in the computer system before an ECG could be ordered. The team identified strategies to eliminate these barriers, identifying a dedicated space and undergoing multiple PDSA cycles to change the workflow to stream patients to this space before registration. Results: Our median times in patients with STEMI have gone from 33 minutes to 8 minutes as of June 2017. In all patients presenting with chest pain, we improved from a median of 36 to 17 minutes. As of April 2017 we are obtaining an ECG within 10 minutes in 27% of our patients, compared to 3% in 2016. Given the limitations in our data extraction process, we were not able to differentiate between patients with active chest pain versus those whose chest pain had resolved. Conclusion: By involving frontline staff, and having frontline champions providing real time support, we were able to make significant changes to the culture at triage. We cultivated sustainability by changing the workflow and physical space, and not relying on education only. While we have improved the times for our walk-in patients, we have not perfected the process when a patient moves immediately to a bed or presents via ambulance. Implementing small changes and incorporating feedback has allowed us to identify these new challenges early.

Keywords: quality improvement and patient safety, emergency department, electrocardiogram

MP24
Doc in the box: effectiveness of physician initial assessment at triage in the emergency department
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Introduction: Physician Initial Assessment (PIA) time at the Montfort Emergency Department (ED) in Ottawa is one of the longest in the province. PIA, Length of Stay (LOS), and Left Without Being Seen (LWBS) are all performance measures which impact hospital funding through the pay for results (PfR) system. Increased PIA times negatively impact hospital funding, patient satisfaction and may be correlated to patient safety. Our aim was to examine whether having a physician at triage during the last hour of their shift decreased PIA time, LOS, and LWBS rate, and also to overall improve patient care received in the Emergency Department. Methods: During the last hour of five different Emergency Department (ED) shifts (14:15h, 16:17h, 19:20h, 22:23h, 23h-00h), the physician worked with a designated registered nurse, evaluating patients in a room adjacent to triage and the waiting room. The current study evaluated the effectiveness of having a physician perform initial assessments at triage (including history, physical and ECG) and assess the impact on PIA time, LOS, and LWBS during the specific hours that a physician is at triage. This is a pre-post retrospective study. Baseline data was collected retrospectively over a period of 20 weeks prior to the intervention (between January 2017 and June 2017). Intervention data was collected over a period of 20 weeks starting in June 2017. Statistical process control (SPC) methodologies were then applied to the pre-post data of continuous variables. PIA time and LOS averages were obtained for each hour in which the physician was stationed at triage. I (XmR) charts were used for statistical analysis. Analysis was done using QI macros in Microsoft Excel. Results: Reductions in PIA times of 8 minutes (14-15h), 16 minutes (16-17h), 30 minutes (19-20h), 72 minutes (22-23h) and 88 minutes (23h-00h) were demonstrated across the 5 shifts throughout the trial period. No clear increase in LWBS wait times were demonstrated. Overall ED volumes increased modestly over the course of the intervention. Overall ED LOS in the department decreased about 25 minutes over this same period. There were no other PfA or LOS reduction initiatives taking place in the ED over the trial period. Conclusion: The goal of this study was to have patients seen quickly by an emergency physician at triage who would perform a rapid initial assessment and respond to needs for pain management, and order urgent testing or imaging. In this study, PIA times improved after the process change for every time period tested. One possible limitation was that this intervention likely had less adherence at the beginning of the trial as the staff adjusted to the new shift flow. This seems to be reflected in the data, since an improved process change is demonstrated near the end of the trial period. The next step in quality care improvement is to look at lab and imaging data to evaluate the utilization of tests with a physician at triage.

Keywords: quality improvement and patient safety, physician initial assessment time in the emergency department, emergency physician at triage

MP25
The quality improvement and patient safety curriculum for emergency medicine residents at the University of Toronto: results from the first cohort
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Introduction: The 2015 CanMEDS framework requires all residency programs to increase their focus on Quality Improvement and Patient Safety (QIPS). We created a longitudinal (4-year), modular QIPS curriculum for FRCP emergency medicine residents at the University of Toronto (UT) using multiple educational methods. The curriculum addresses three levels of QIPS training: knowledge, practical skills at the microsystem level, and practical skills at the organization level. Aim Statement: To increase the UT FRCP emergency medicine residents absolute score on the QIKAT-R (Quality Improvement Knowledge Application Tool Revised) by 10% after the completion of the QIPS curriculum. Methods: Physicians and other healthcare professionals with QI expertise collaboratively designed and taught the curriculum. We used the QIKAT-R as the outcome measure to evaluate QI knowledge and its applicability. The QIKAT-R is a validated measure that assesses an individuals ability to decipher a QI issue within the healthcare context, and propose a change initiative to address it. The first cohort of residents completed the QIKAT-R prior to the first session in 2014 (pre) and at the completion of the curriculum in 2017 (post). Each response was anonymized and scored by physicians with QI expertise. The QIKAT-R scores and comments from course evaluations are used to make yearly iterative curriculum changes. Results: The QIPS curriculum was implemented in September 2014. All nine residents in the first cohort completed the curriculum; they demonstrated an absolute increase of 19.6% (5.3/27) in the mean QIKAT-R score (13.0 ±3.3 pre vs. 18.3 ±2.8 post, p = 0.001). Of the pre-test responses, 26% were categorized as poor, 70% as good, and 4% as excellent, whereas of the post-test 11% of responses were categorized as poor, 37% as good, and 52% as excellent (p <0.001). Two iterative curriculum changes were made at the end of each academic year since 2014: (1) The time between sessions were decreased to promote knowledge retention, and (2) different PGY3 QI practical project options were provided to suit residents individual QI interests. QIKAT-R scores and resident feedback were used to