Objectives

Acute ST elevation myocardial infarction (STEMI) is a life-threatening emergency condition. A In Periods A and B there were 151 and 146 STEMI cases, respectively, diagnosed in the patient whose STEMI is missed on evaluation has a ~25% likelihood of a very poor outcome, internal medicine ED. In order to produce comparison groups, we chose the cases occurring therefore immediate diagnosis and treatment of MI is one of the most important challenges of during regular ED staff hours (Period A – 50 cases, and Period B – 49 cases). Median D2B emergency medicine. Current guidelines for the treatment of STEMI recommend a door-to- decreased from 97 minutes to 82 minutes (p = 0.033) and timeliness rate increased from 46% to balloon time (D2B) of 90 minutes or less for patients undergoing primary percutaneous 75.5% (p = 0.005), respectively. coronary intervention (PCI).

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Crowding in emergency departments is a worldwide problem. Studies have shown a significant association between the emergency room crowding and STEMI patient's adverse outcomes. The emergency department (ED) in Soroka University Medical Center is the busiest in Israel (230,000 visits annually, of which 54,000 are in the internal medicine ED). Between May 2015 - April 2016 a novel "physician coordinator" work model was implemented in the internal medicine ED, in which a senior physician performs a medical triage (in parallel to the nursing triage), identifies emergency cases, especially STEMI, performs urgent procedures, allocates patients to physicians, and activates a cardiologist for immediate transfer of the **STEMI** patient to catheterization laboratory.

Methods

We compared the data from a period prior to implementation of the new work model (May 2014 - April 2015, "Period A") to a parallel period following implementation (May 2016 - April 2017, "Period B"), for patients with STEMI diagnosis.

We compared the door-to-balloon time (D2B) (in minutes) and the Timeliness rate (%) = the percentage of STEMI cases undergoing PCI in less than 90 minutes.





Conclusions

Implementing a "physician coordinator" work model in the internal medicine ED led to significant improvement in treatment measures: reduced D2B time and increased timeliness rate, for STEMI patients.

Results

A PHYSICIAN-COORDINATOR REDUCES DOOR-TO-BALLOON TIME FOR STEMI PATIENTS IN EMERGENCY DEPARTMENT T. Slutsky, V. Zeldetz, Y. Aizenberg, H. Al Krinawi, E. Shnaider, A.Kaplan, D. Schwarzfuchs Emergency Medicine Department Soroka University Medical Centre, Beer Sheva, Israel



