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Pre-Hospital FAST-ED Initiatives Improve t-PA and Endovascular Treatment Times

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Neuroscience Center BAPTIST HEALTH SOUTH FLORIDA

Pre-Hospital FAST-ED Initiatives Improve t-PA and Endovascular Treatment Times

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INTRODUCTION

The Field Assessment Stroke Triage for Emergency Destination (FAST-ED) is a pre-hospital screening algorithm developed to detect large vessel occlusion (LVO) strokes. Acute stroke outcomes largely depend on timely reperfusion treatment. In March 2017 Miami-Dade Fire Rescue (MDFR) implemented a pre-hospital FAST-ED scale initiative. Those with a score \geq 4 bypass other centers for a comprehensive stroke center (CSC) and those with a score \geq 6 also have the neuro interventional team activated from the field during off hours.

PURPOSE

To assess whether the use of the pre-hospital FAST-ED score decreased the door to groin and door to needle times and to compare on and off hours.

METHODS

All stroke cases brought to Baptist Hospital of Miami by MDFR during the months of March through August 2017 were included. Treatment times were compared on vs. off hours and also to those with a FAST-ED score ≥ 6 . We compared our data to the immediately preceding 6 months and also to the same months 1 year ago. We used the FAST-ED score documented on the run sheet.



Figure 1. Three time periods for data analysis



Figure 2. Number of stroke alerts brought by MDFR across three time periods

- (Figure 3A)
- (Figure 3C)
- prior year (Figure 3D)

RESULTS

Overall, door to needle time (DTN) for IV t-PA remained statistically unchanged after FAST-ED implementation

 Off hours, for FAST-ED ≥6, <u>DTN decreased</u> by 9 min from the prior year (n.s.) (Figure 3B)

Overall for endovascular therapy, door to groin time (DTG) decreased by 17 min (n.s.) and 30 min (p<0.01) compared to the prior 6 months and to the prior year

Off hours, for FAST-ED \geq 6, **DTG decreased** by 32 min (n.s.) and 49 min (p<0.01) from the prior 6 months and



- interventional team during off hours

DISCLOSURES

There are no financial disclosures related to this study.

