

March 10, 2010

### **WVEMS Regional Trauma PI Committee**

Performance Improvement Project: Evaluation of on-scene time by airway type

Data Source: Carilion Roanoke Memorial Hospital Trauma Registry

Date Range: September 1, 2009 – February 28, 2010

Inclusion Criteria: GCS < 9; transported direct from scene to CRMH

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Total cases: 38

ALS Airway: 14 patients

- \* Endotracheal tube: 12
- \* Cricothyroidotomy: 1
- \* King airway: 1

BLS Airway: 8 patients

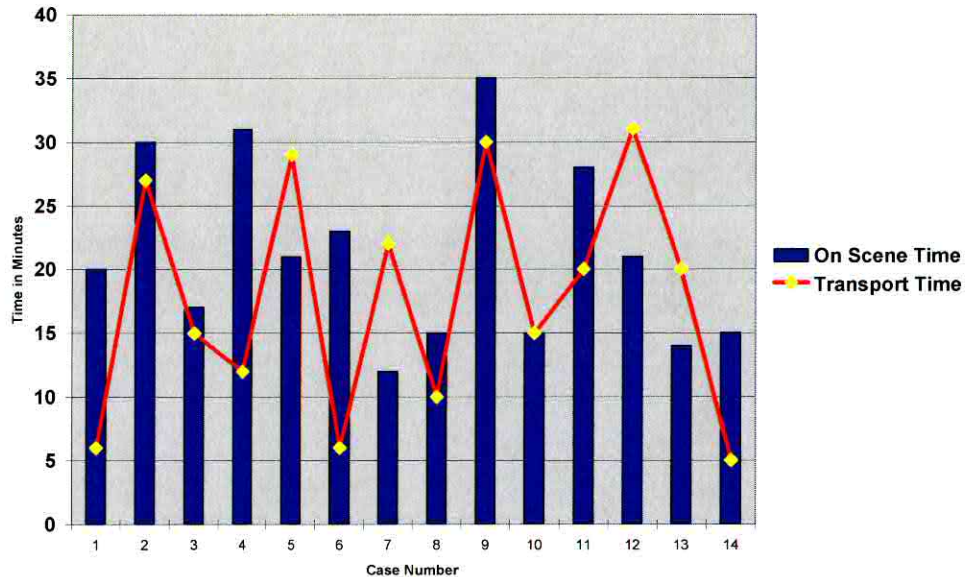
- \* BVM: 8 patients
  - o 4 cases had documentation indicating that ETT could not be placed due to clenched teeth.

Supplemental Oxygen: 16 patients

### ALS Airway

- \* Median scene time: 21 minutes (range 14-35 minutes)
- \* Median transport time: 18 minutes (range 5-31 minutes)

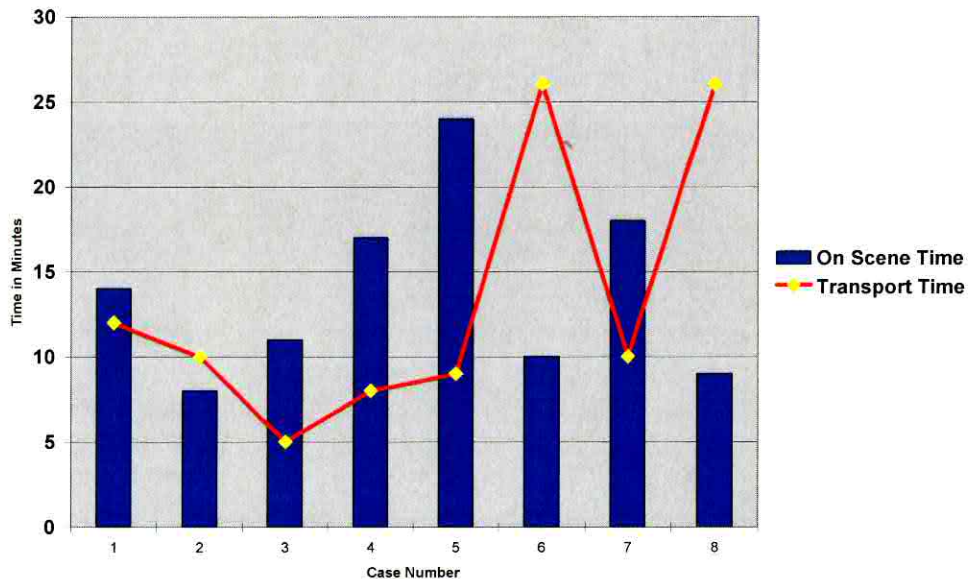
ALS Airway: On-scene vs. Transport to Hospital Time Comparison



### BLS Airway

- \* Median scene time: 13 minutes (range 8-24 minutes)
  - Median scene time for 4 patients with unsuccessful ETT: 15 minutes
  - Median scene time for 4 patients without ETT attempt: 14 minutes
- \* Median transport time: 10 minutes (range 5-26 minutes)

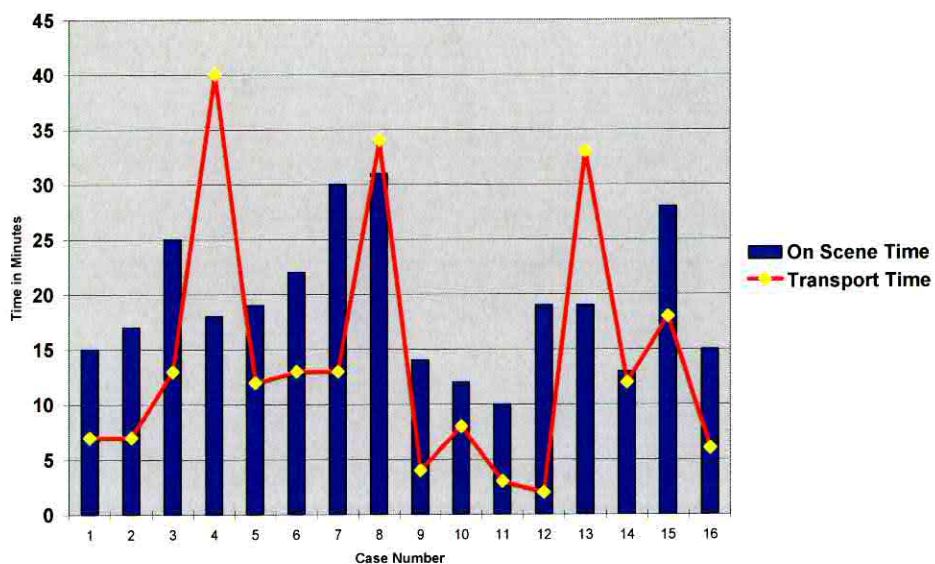
BLS Airway: On-scene vs. Transport to Hospital Time Comparison



## Supplemental Oxygen

- \* Median scene time: 19 minutes (range 10-31 minutes)
- \* Median transport time: 12 minutes (range 6-40 minutes)

Supplemental Oxygen: On-scene vs. Transport to Hospital Time Comparison



## Comparison of Total Population

Comparison of Median Time (Minutes) by Airway Type

