# Wake EMS System Peer Review Clinical Data

3<sup>rd</sup> Quarter 2018

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent













## STEMI

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





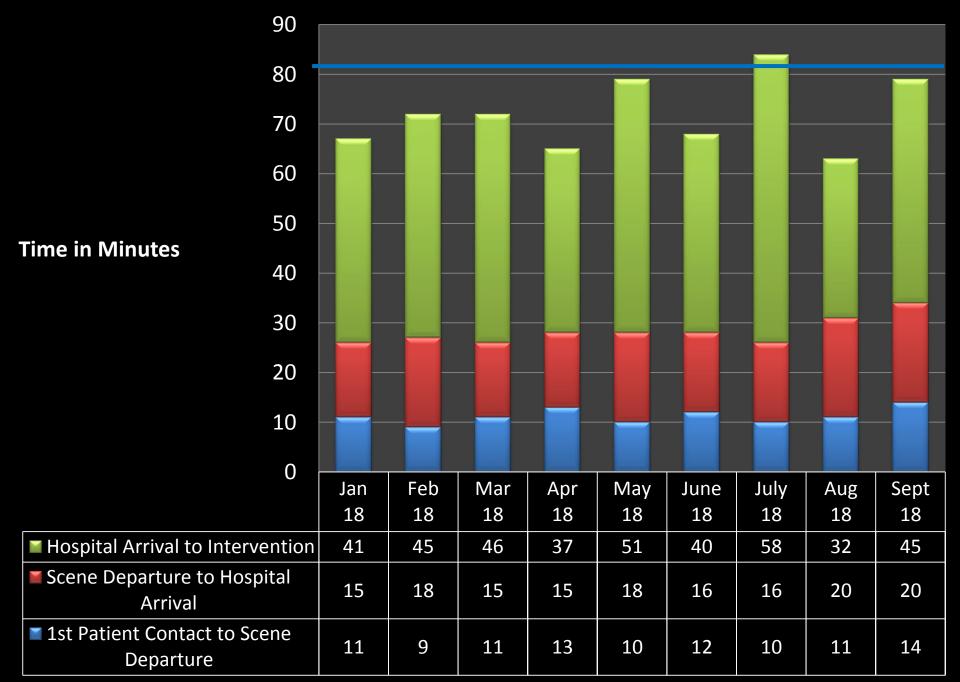






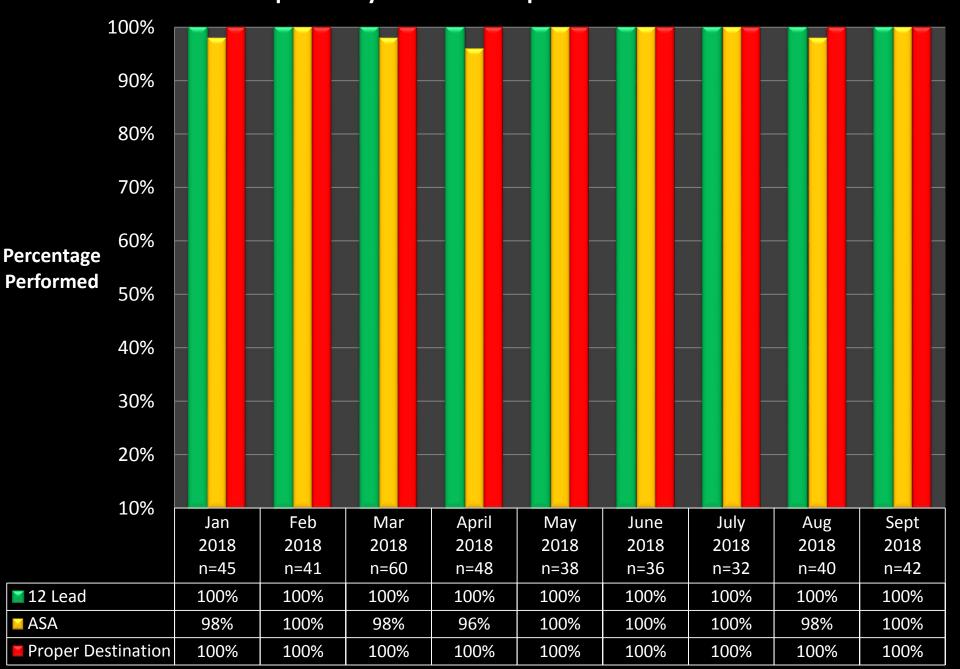


#### Mean Time for Patients with Confirmed STEMI; Combined for All Hospitals



EMS STEMI Evidence Based Medicine Measures

Patients Transported by EMS with Suspected or Confirmed STEMI



# STEMI Over Triage 3<sup>rd</sup> Quarter 2018

Category	Total From Hospitals	Final Disposition = Triage Correctly	Final Disposition = Over Triage
ED EKG Does Not Meet STEMI Criteria	17	14	3
ST Elevation Resolved	1	1	0
EKG Unchanged from Previous EKG	4	3	1
STEMI Imposter (LVH, J Point Elev., Etc)	8	7	1

4% Over triage Rate

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





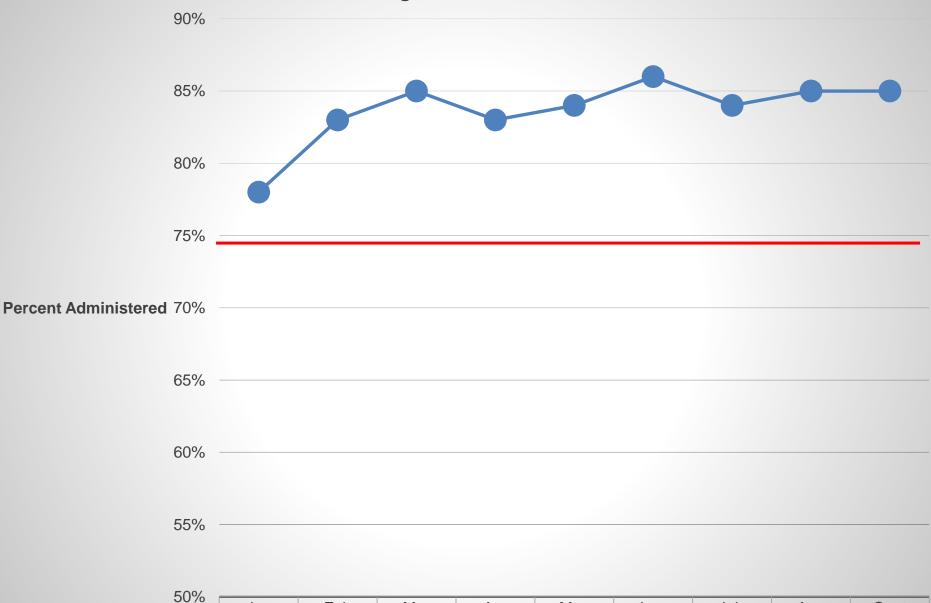








#### Wake EMS Chest Pain Patient Age>35 Who Had ASA Administered



July

2018

84%

Aug

2018

85%

Sept

2018

85%

Feb

2018

83%

Mar

2018

85%

Apr

2018

83%

May

2018

84%

June

2018

86%

Jan

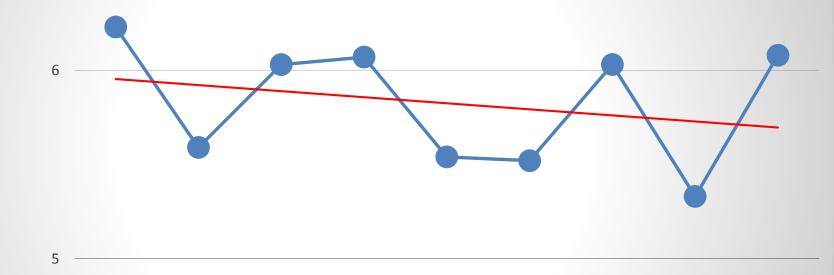
2018

78%

---ASA Administered

## Wake EMS Chest Pain Patient Contact to 12lead Time in Minutes





Λ									
4	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	July 2018	Aug 2018	Sept 2018
Time to 12 Lead (min)	6.23	5.59	6.03	6.07	5.54	5.52	6.03	5.33	6.08

## Stroke

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





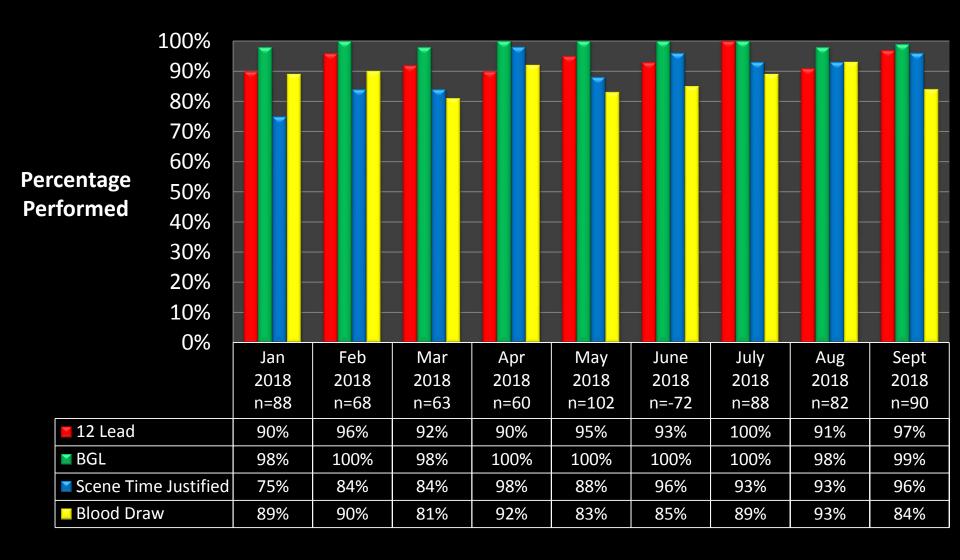




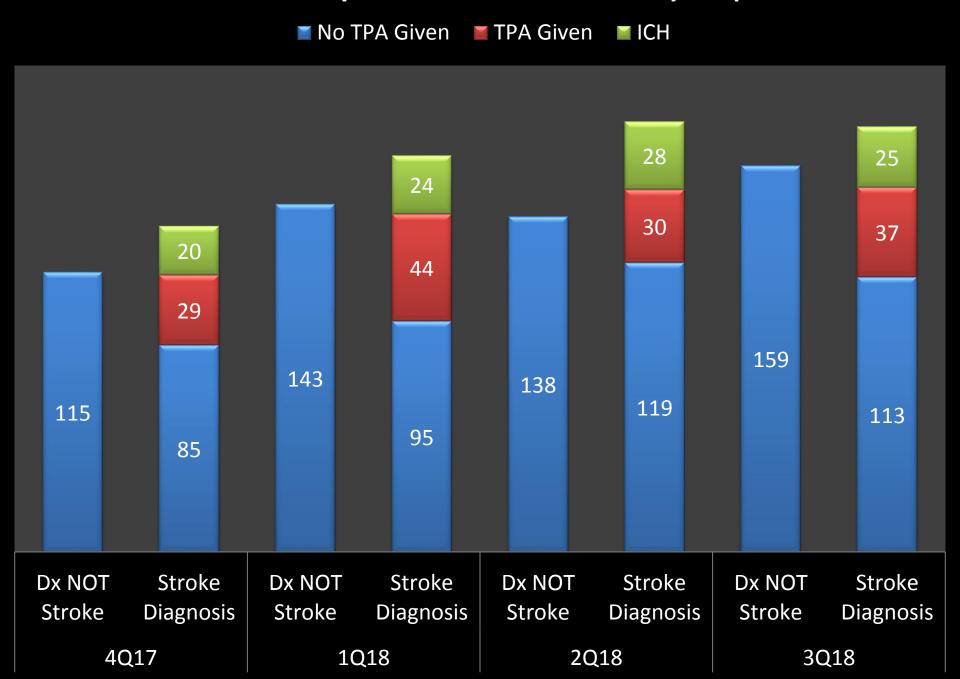




### EMS Stroke Evidence Based Medicine Measures Patients Transported by EMS with Suspected or Confirmed Stroke

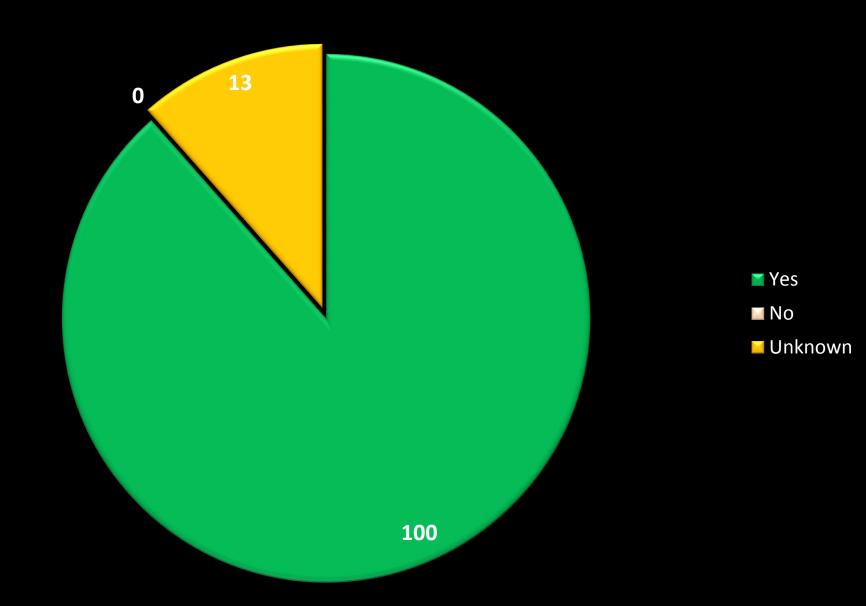


#### **Code Strokes by EMS taken to Wake County Hospitals**

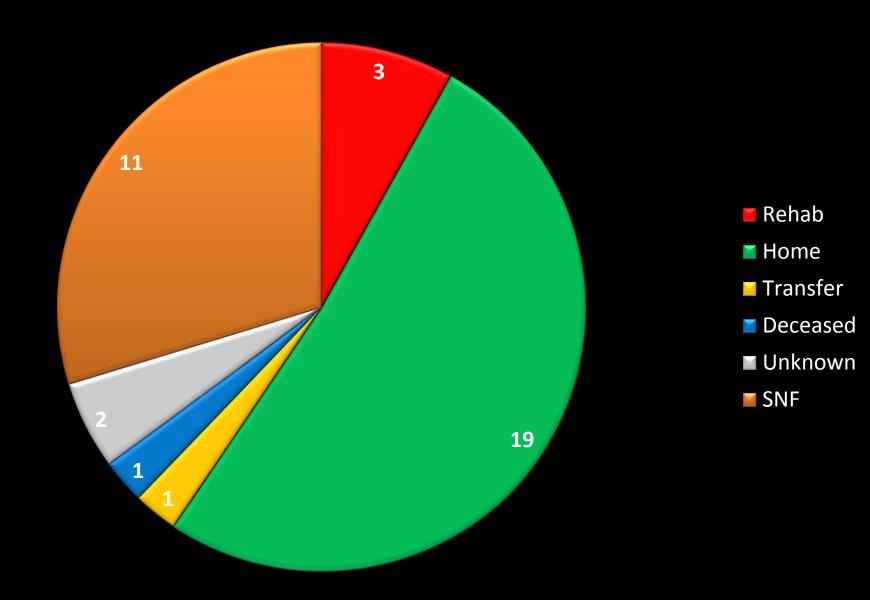


All Hospitals 3<sup>rd</sup> Qtr 2018

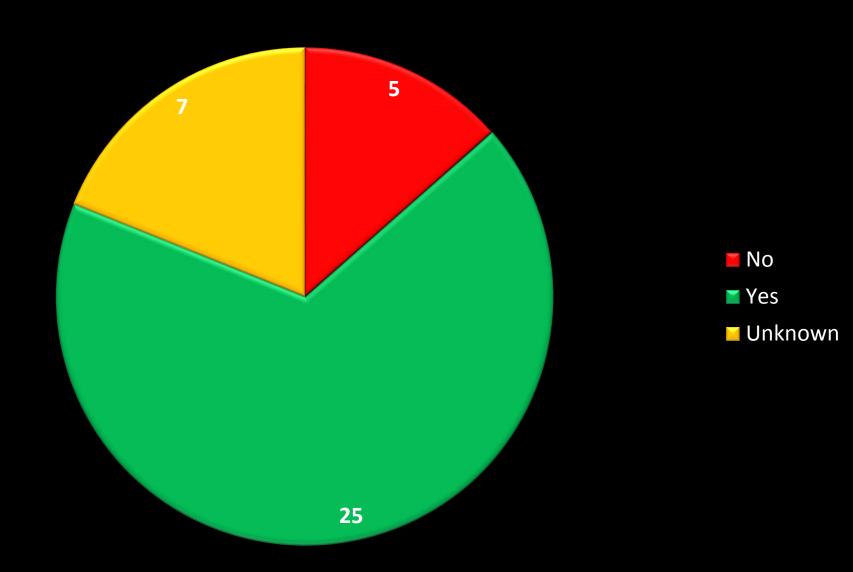
Hospital DCDx Stroke that did not Receive tPA or Intervention



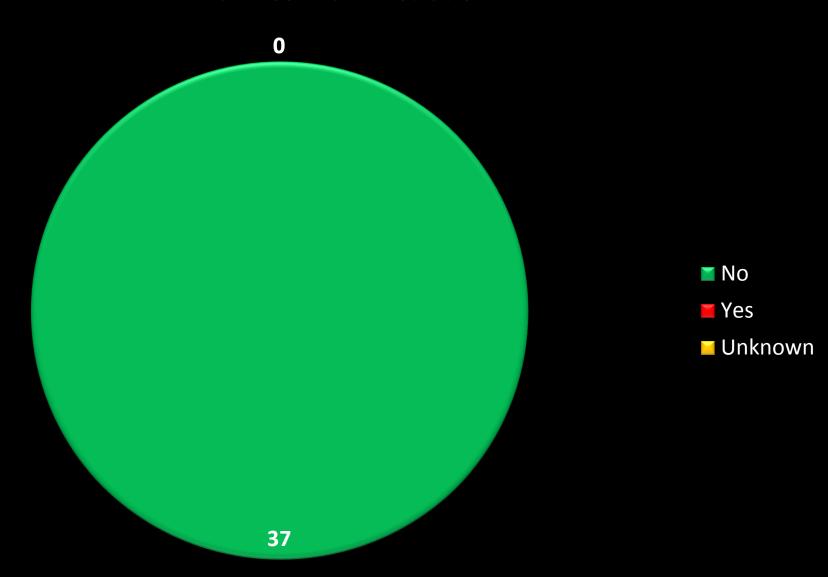
## All Hospitals 3<sup>rd</sup> Qtr 2018 Outcomes for Wake EMS Stroke Patients who Received tPA



# All Hospitals 3<sup>rd</sup> Qtr 2018 Wake EMS Stroke Patients who Received tPA Symptom Improvement

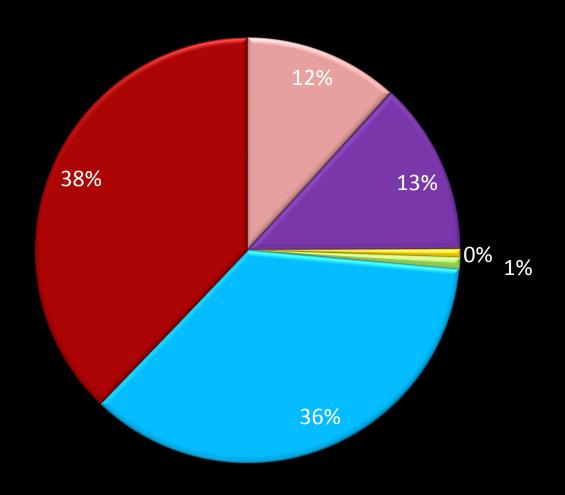


# All Hospitals 2<sup>nd</sup> Qtr 2018 Wake EMS Stroke Patients who Received tPA ICH Post Administration



## Destination for Wake EMS Patients with Suspected or Confirmed Stroke 3<sup>rd</sup> Qtr 2018

- Cary- WakeMed
   Duke Raleigh Hospital
- Garner Healthplex WakeMed
   North- WakeMed
- Rex Healthcare WakeMed Main



#### **Total Transports for the System**

Number of Transports  18000 16000 14000 12000 10000 8000 6000 4000 2000 0							
O	1Q17	2Q17	3Q17	4Q17	1Q18	2Q18	3Q18
■ WakeMed Main	5739	5502	5653	5731	6404	6008	6279
■ Rex Healthcare	4296	4731	4523	4568	4623	4553	4567
■ Pediatric ED WakeMed	684	685	579	473		529	507
■ North- WakeMed	1252	1028	1051	1160	1169	1091	1221
■ Garner Healthplex WakeMed	616	536	533	567	545	560	590
■ Duke Raleigh Hospital	1962	1886	1788	1865	1804	1771	1763
■ Cary- WakeMed	2662	2493	2367	2473	2579	2439	2558
■ Brier Creek Healthplex- WakeMed	321	239	289	244	238	291	285
■ Apex Healthplex- WakeMed	313	333	297	314	306	330	302

## Trauma

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





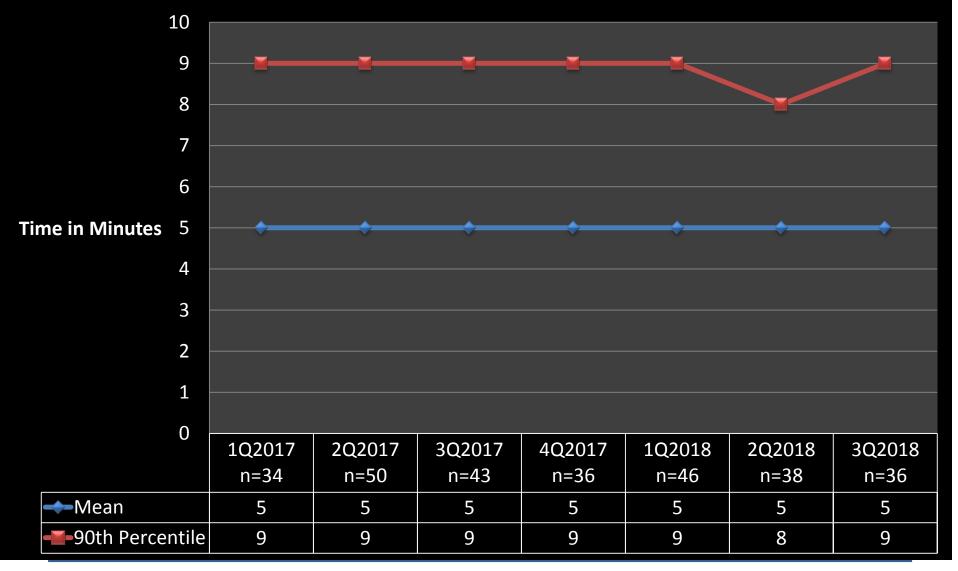








### Wake EMS System Penetrating Trauma Scene Times



The Wake County EMS System - Prompt, Compassionate, Clinically Excellent













## Cardiac Arrest

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent







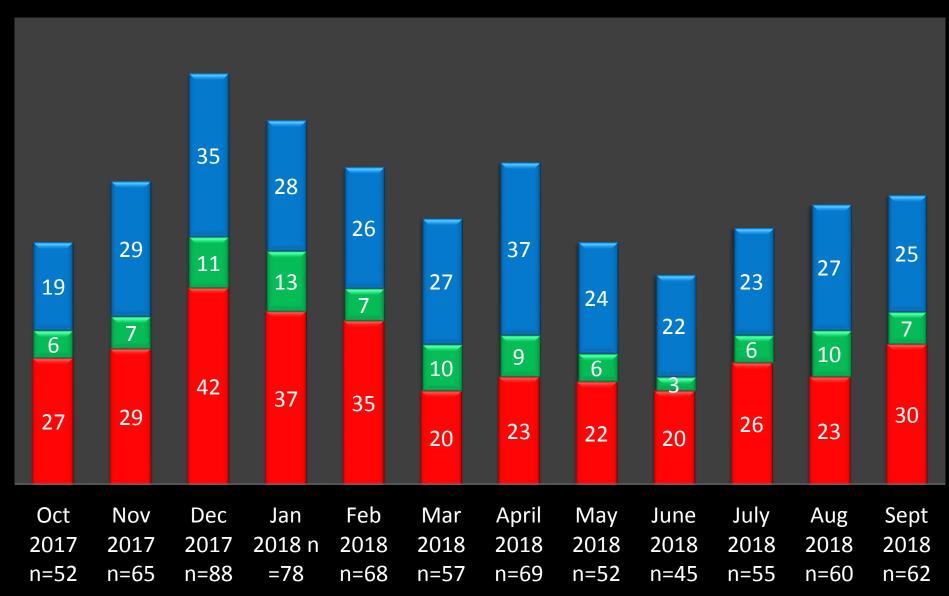




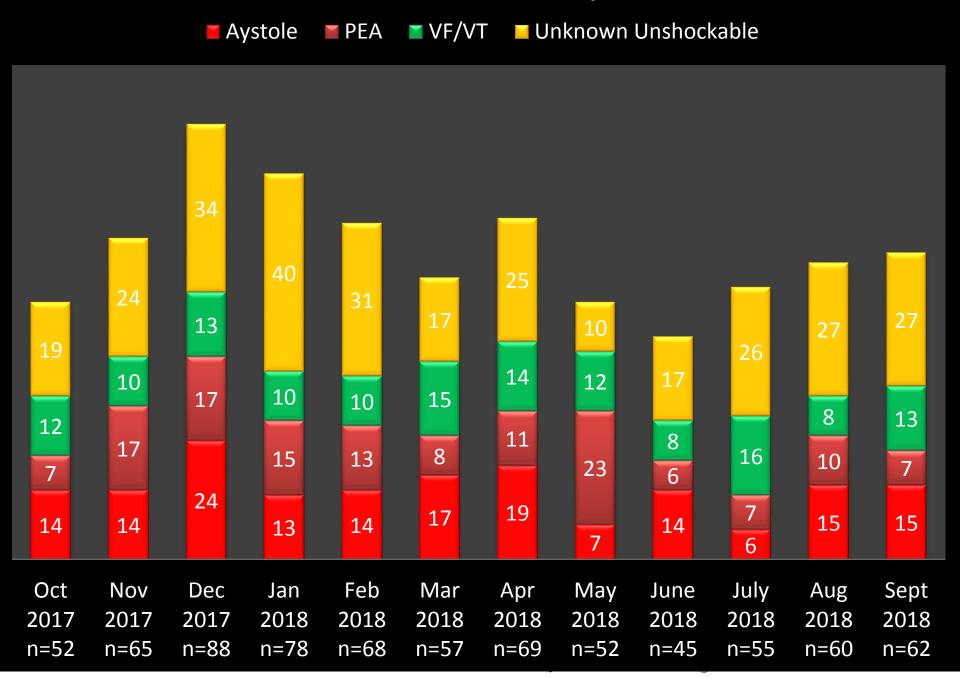


#### **Wake EMS Worked Cardiac Arrest**

- Resuscitation Ceased in the Field
- Transport to Hospital with no ROSC
- Transport to Hospital with ROSC



#### **Cardiac Arrest Initial Rhythm**



# Respiratory Distress

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





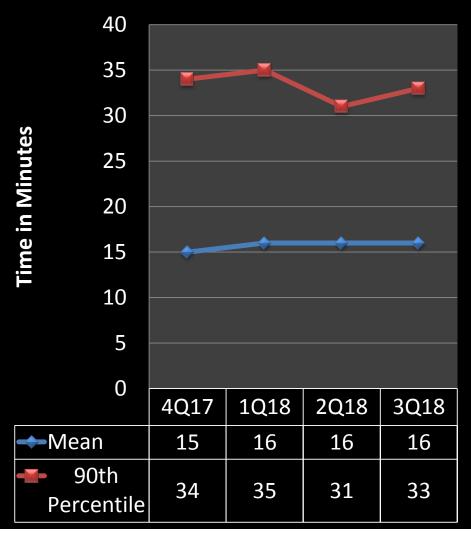




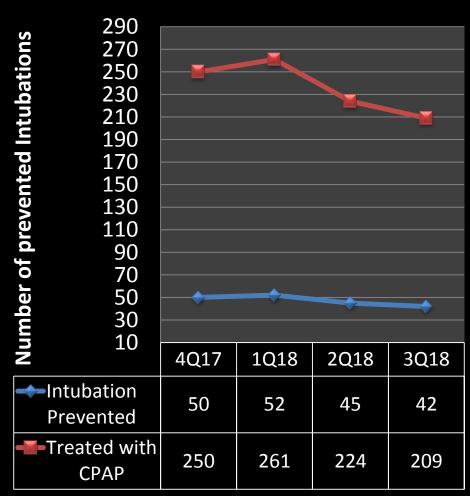




## Wake EMS System CPAP Application Time



# Wake EMS System Intubation Prevented with CPAP



The Wake County EMS System - Prompt, Compassionate, Clinically Excellent













# Miscellaneous Reports

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





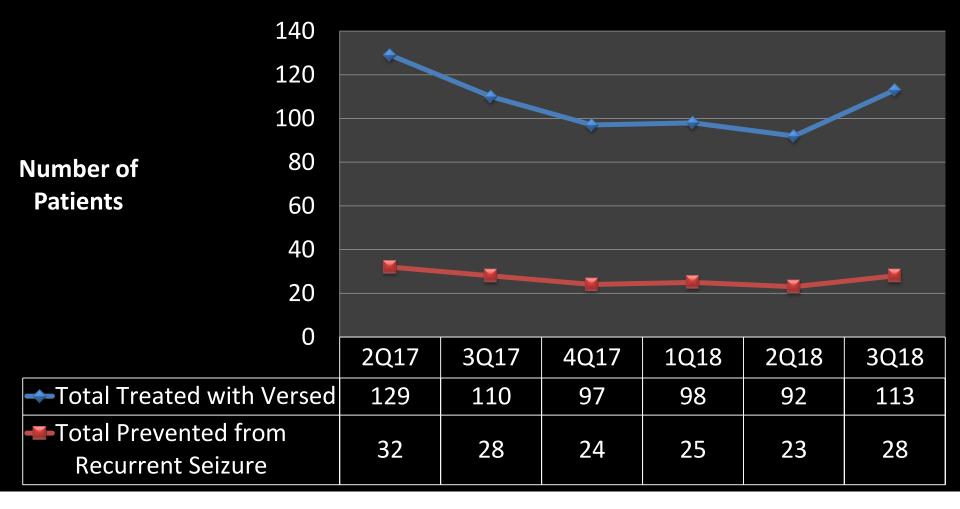








## Wake EMS System Seizure Patients Treated with Versed



The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





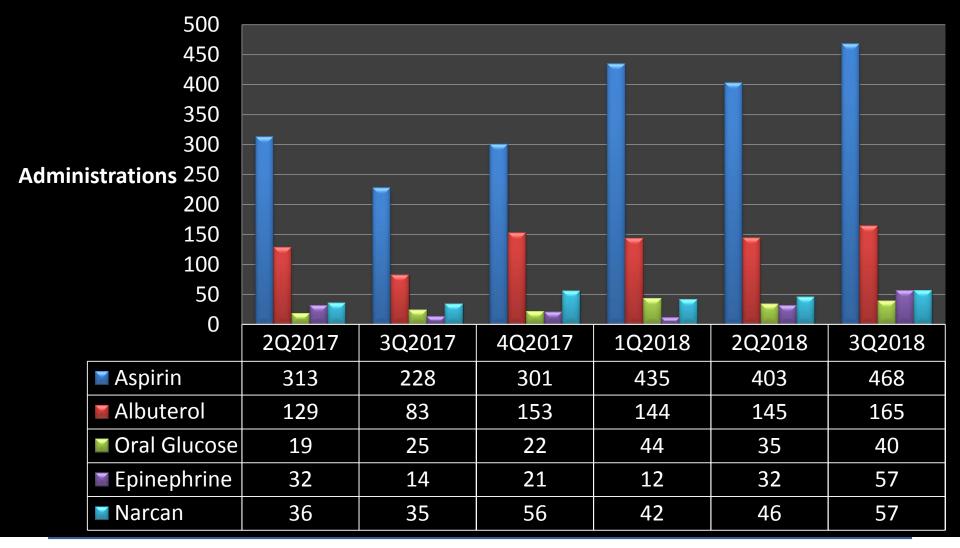








## Medications Administered by First Responders – Derived from EMS Documentation



The Wake County EMS System – Prompt, Compassionate, Clinically Excellent

Care













# Psychiatric and OD calls not evaluated by APP 2<sup>nd</sup> Qtr 2018

- 1300 Overdose and Psychiatric calls
- 1175 Had an APP dispatched
- 780 Had an APP arrive and evaluate the patient

NOTE: There were 395 calls where the APP did not arrive on-scene. Multiple reasons exist for this, evaluation is ongoing.

The Wake County EMS System - Prompt, Compassionate, Clinically Excellent





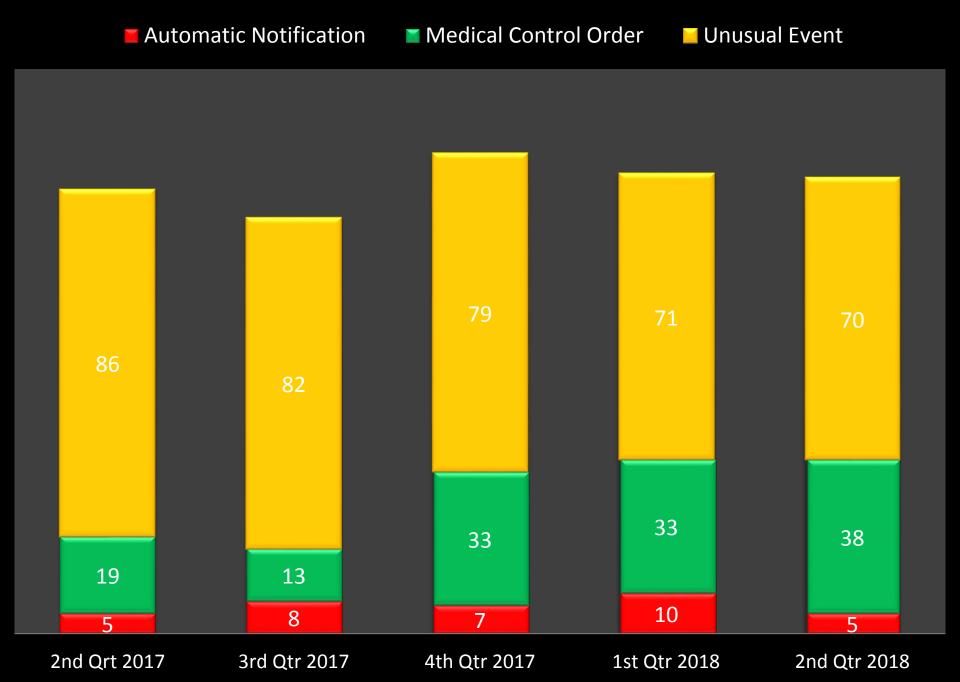








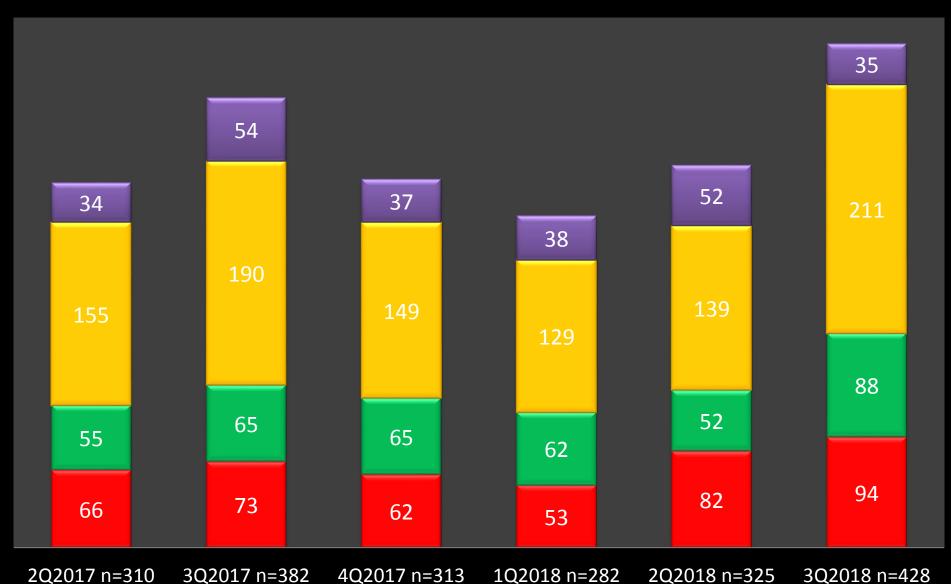
#### **Reason for OMD Contact**



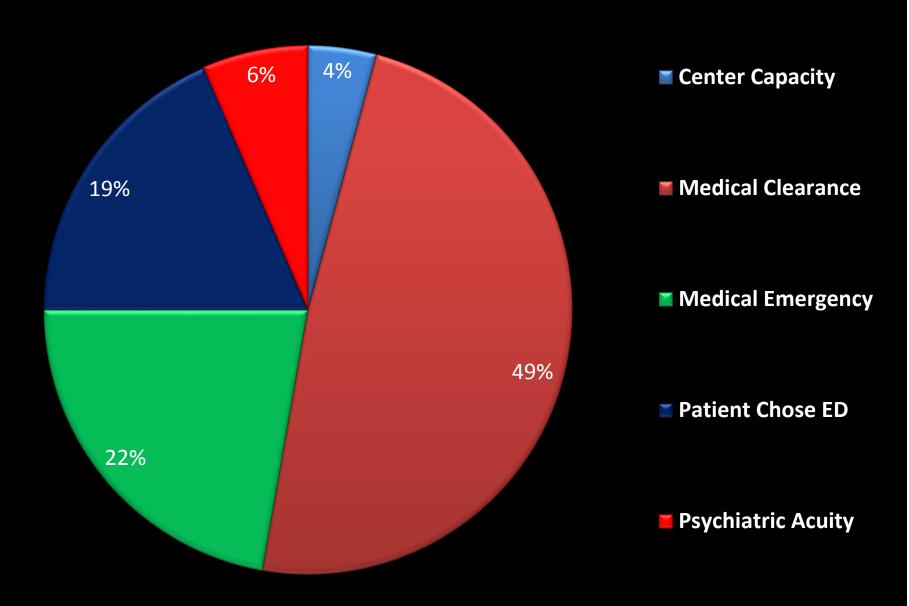
#### **APP Alternate Destination**

- No Transport
- Transport to ED

- Transport to Alternative Location
- Transported to Psychiatric Hospital



## **3<sup>rd</sup> Quarter 2018 Alternate Destination Reason for ED Transport**



Wake EMS System

APP Home Visits with CCWJC CHF Program

80

