

Wake EMS System Peer Review Clinical Data

3rd Quarter 2019

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



Care



STEMI

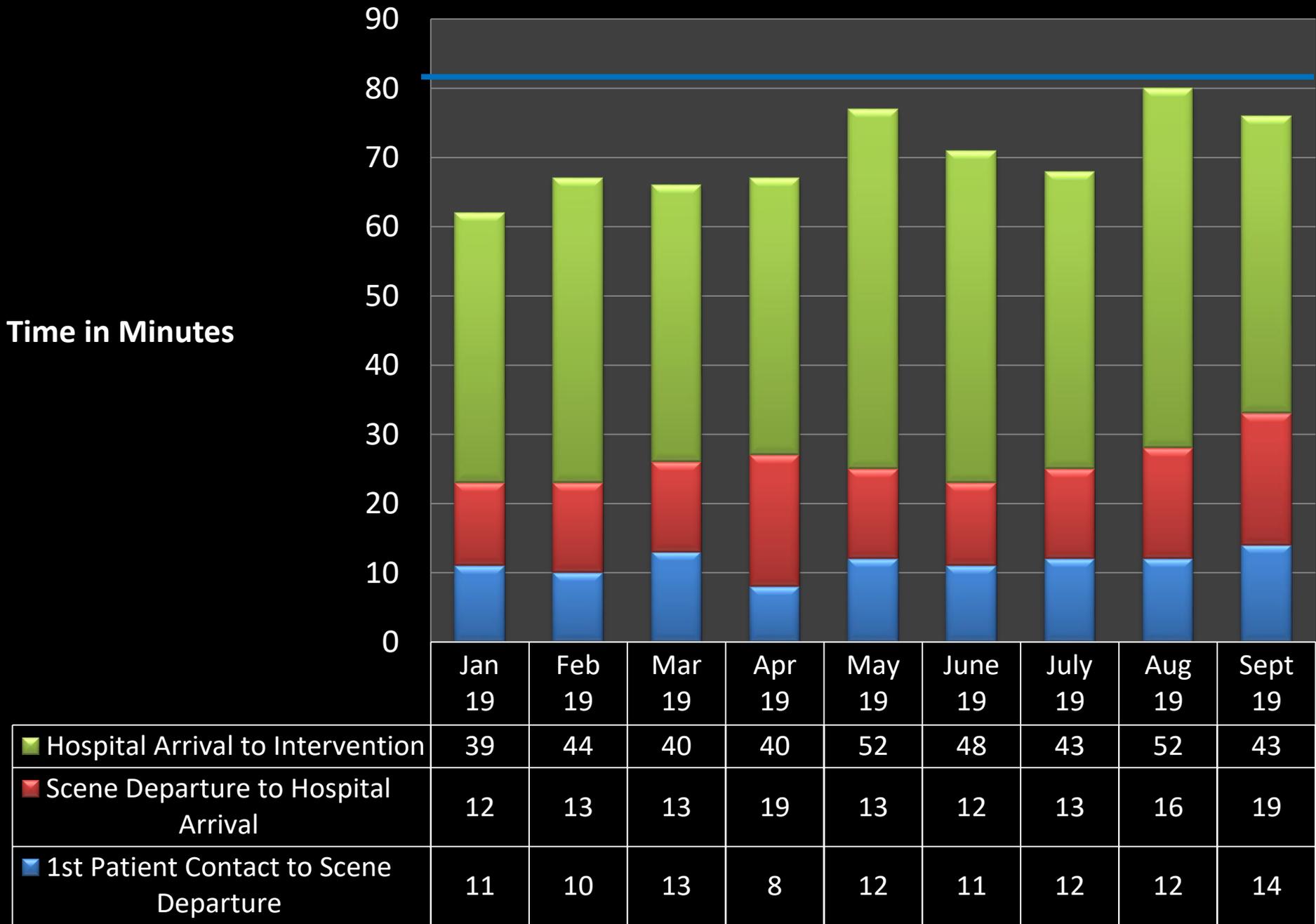
The Wake County EMS System – *Prompt, Compassionate, Clinically Excellent*



Care



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



STEMI Over Triage

3rd Quarter 2019

Category	Total From Hospitals	Final Disposition = Triage Correctly	Final Disposition = Over Triage
ED EKG Does Not Meet STEMI Criteria	12	9	3
ST Elevation Resolved	5	5	0
EKG Unchanged from Previous EKG	8	6	2
STEMI Imposter (LVH, J Point Elev., Etc)	9	6	3
7% Over triage Rate			

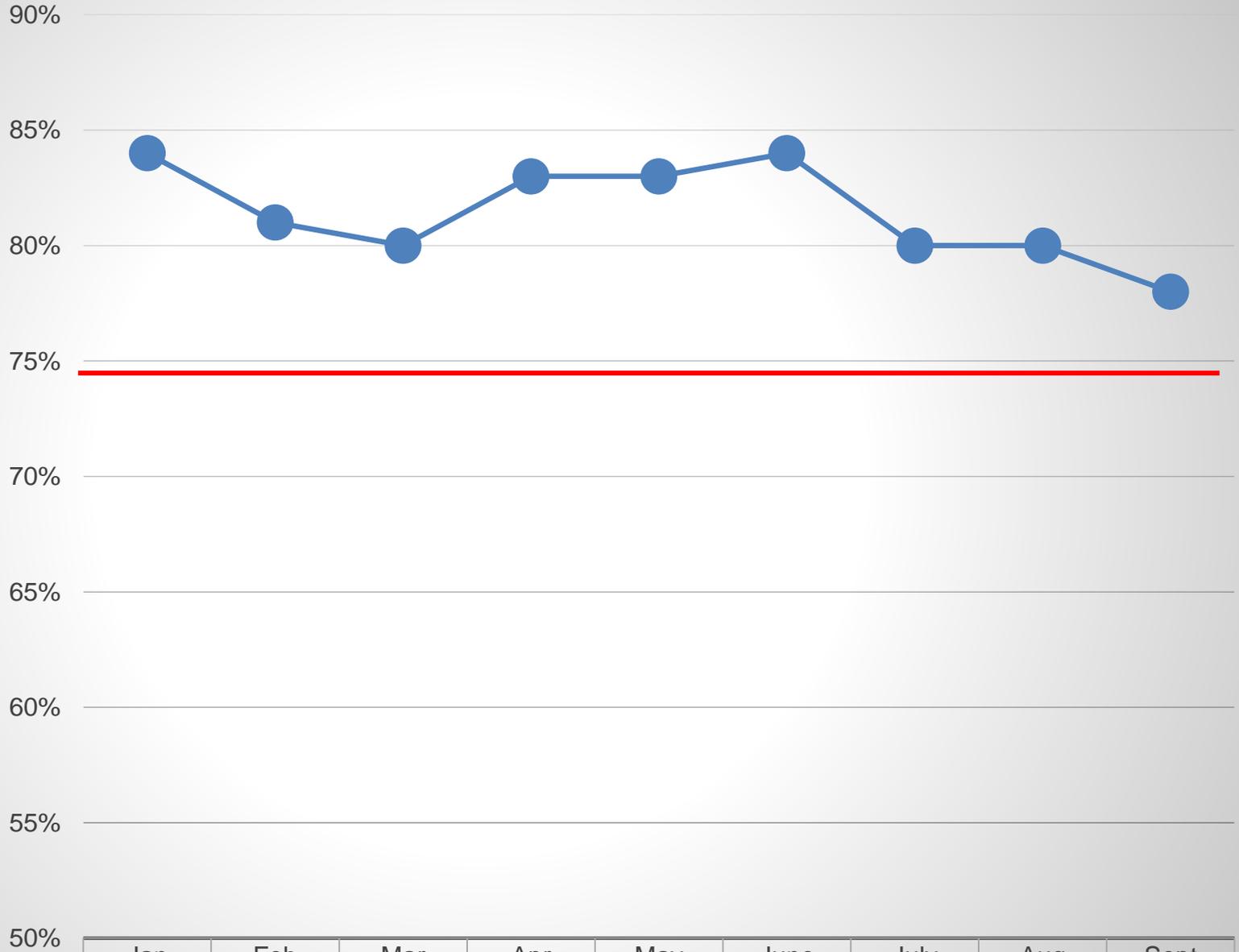
The Wake County EMS System – Prompt, Compassionate, Clinically Excellent



Care



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



Percent Administered

ASA Administered

Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	June 2019	July 2019	Aug 2019	Sept 2019
84%	81%	80%	83%	83%	84%	80%	80%	78%

Stroke

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

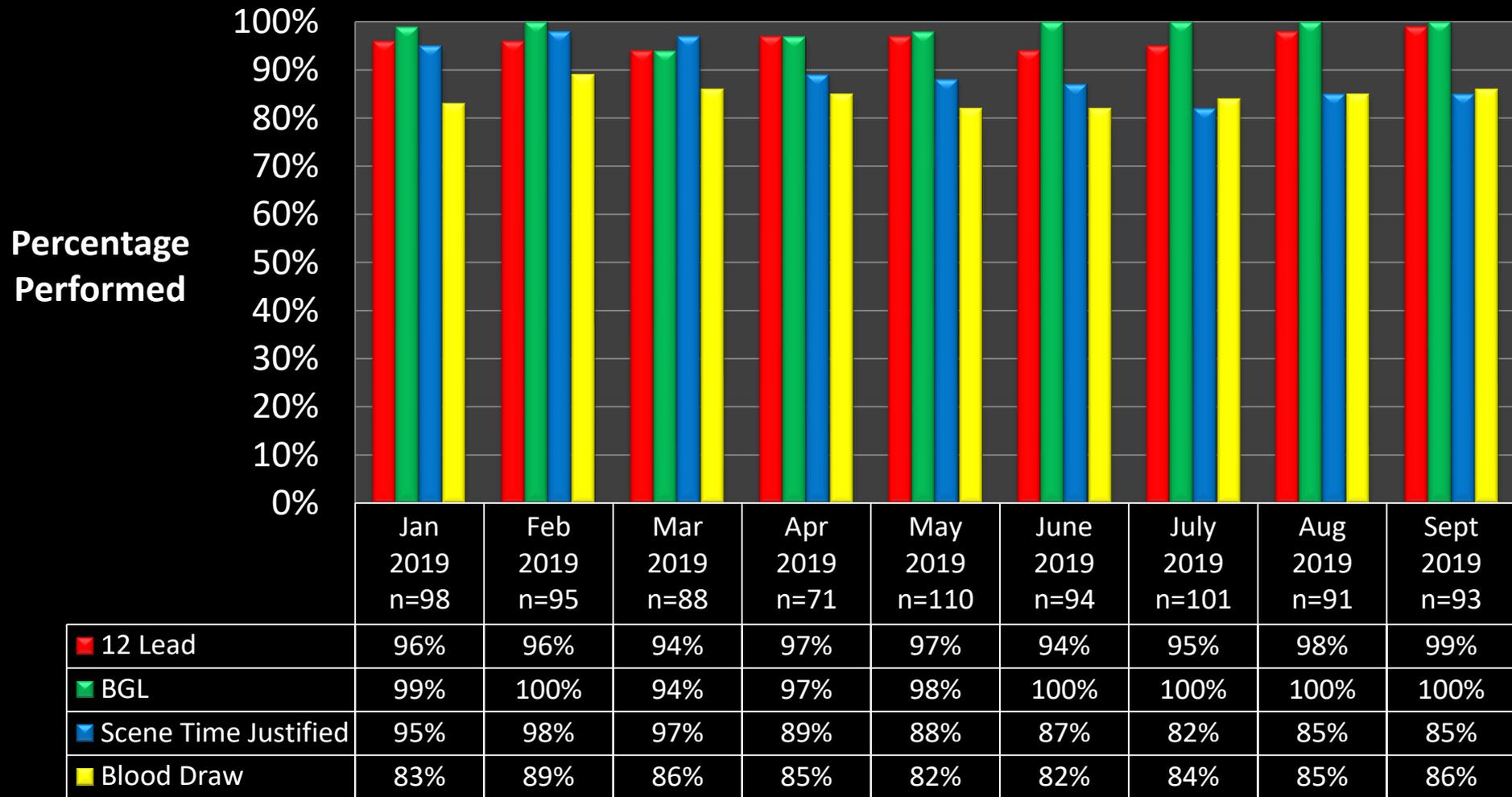


Care



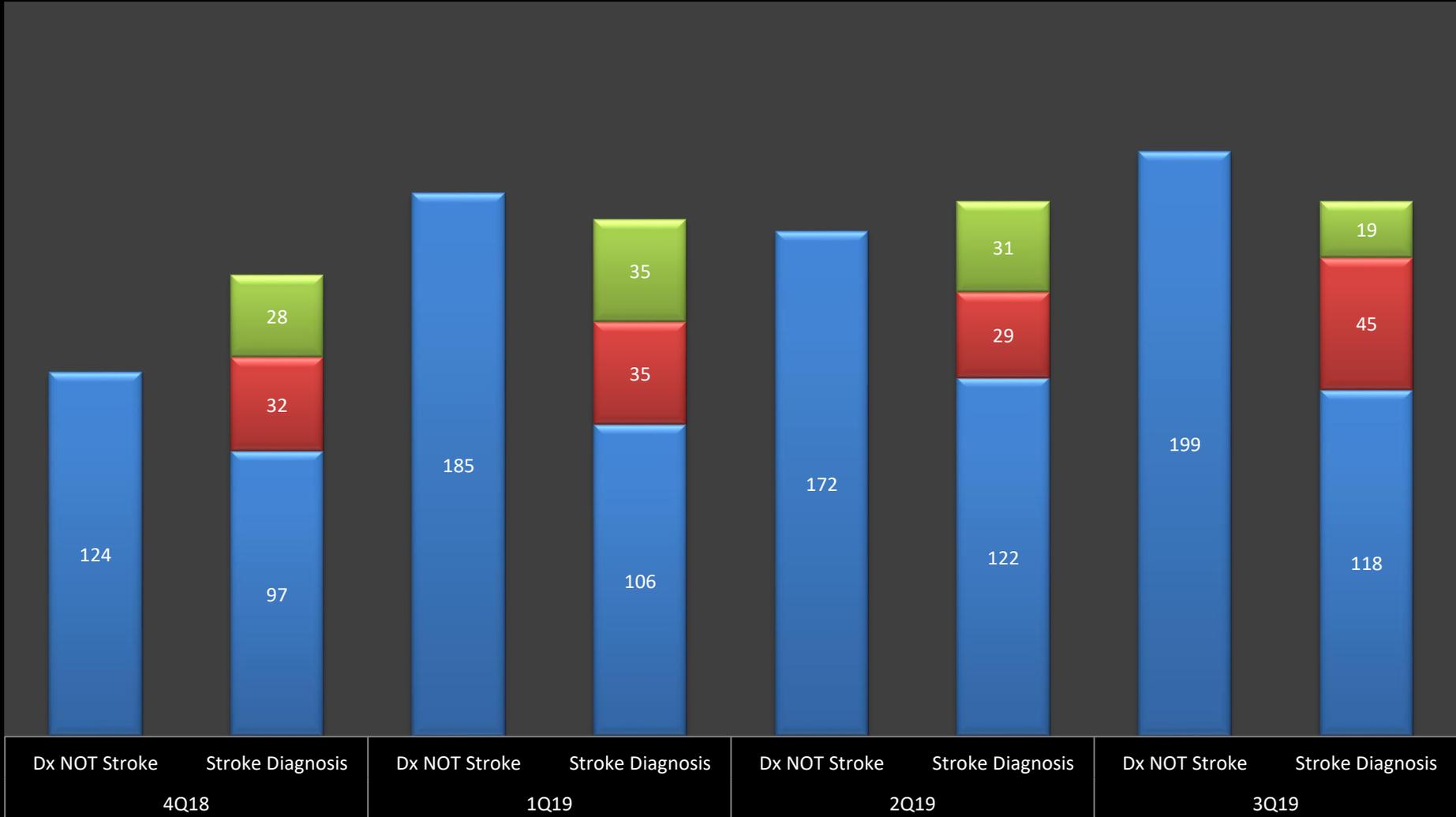
EMS Stroke Evidence Based Medicine Measures

Patients Transported by EMS with Suspected or Confirmed Stroke

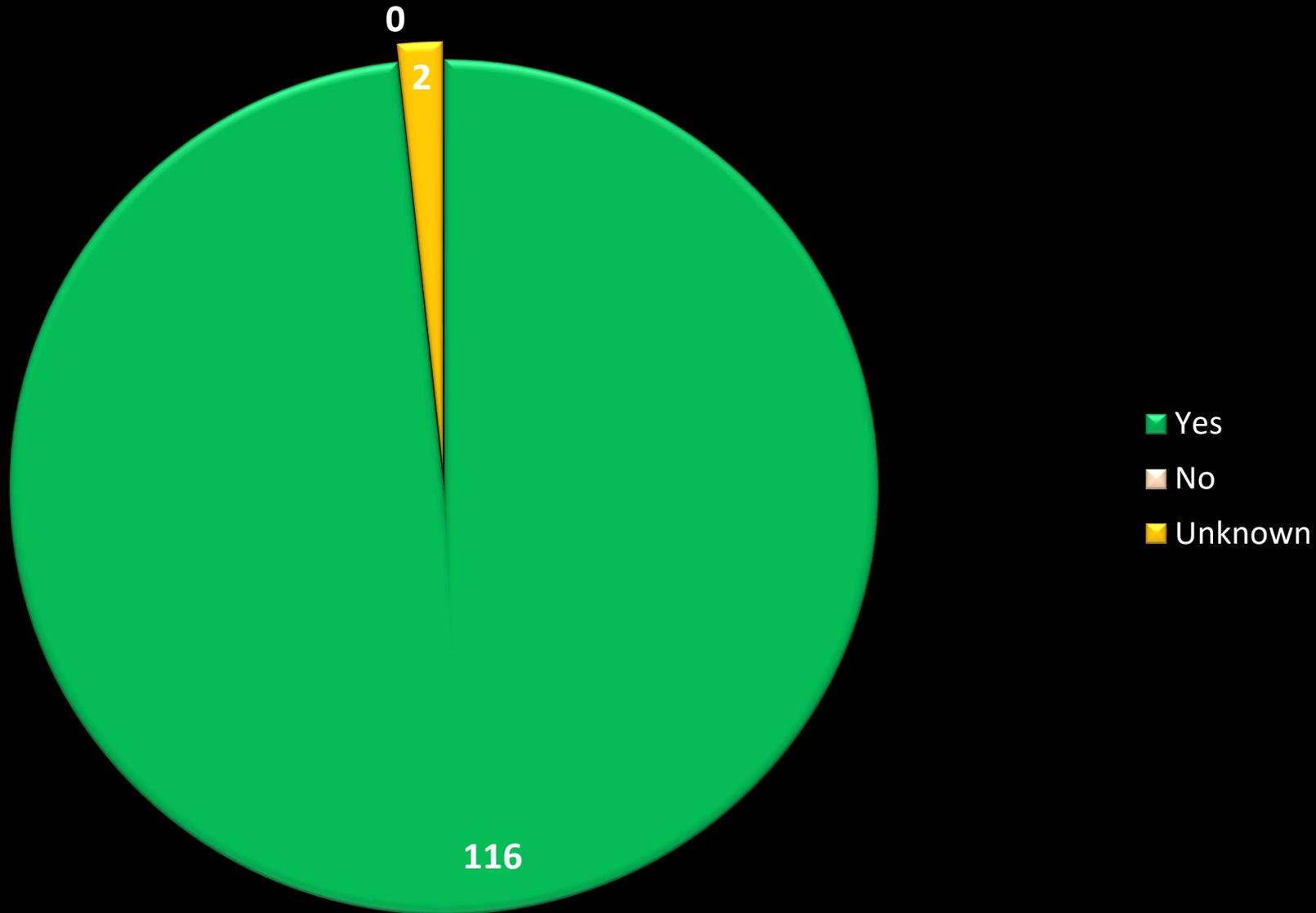


Code Strokes by EMS taken to Wake County Hospitals

■ No TPA Given
 ■ TPA Given
 ■ ICH

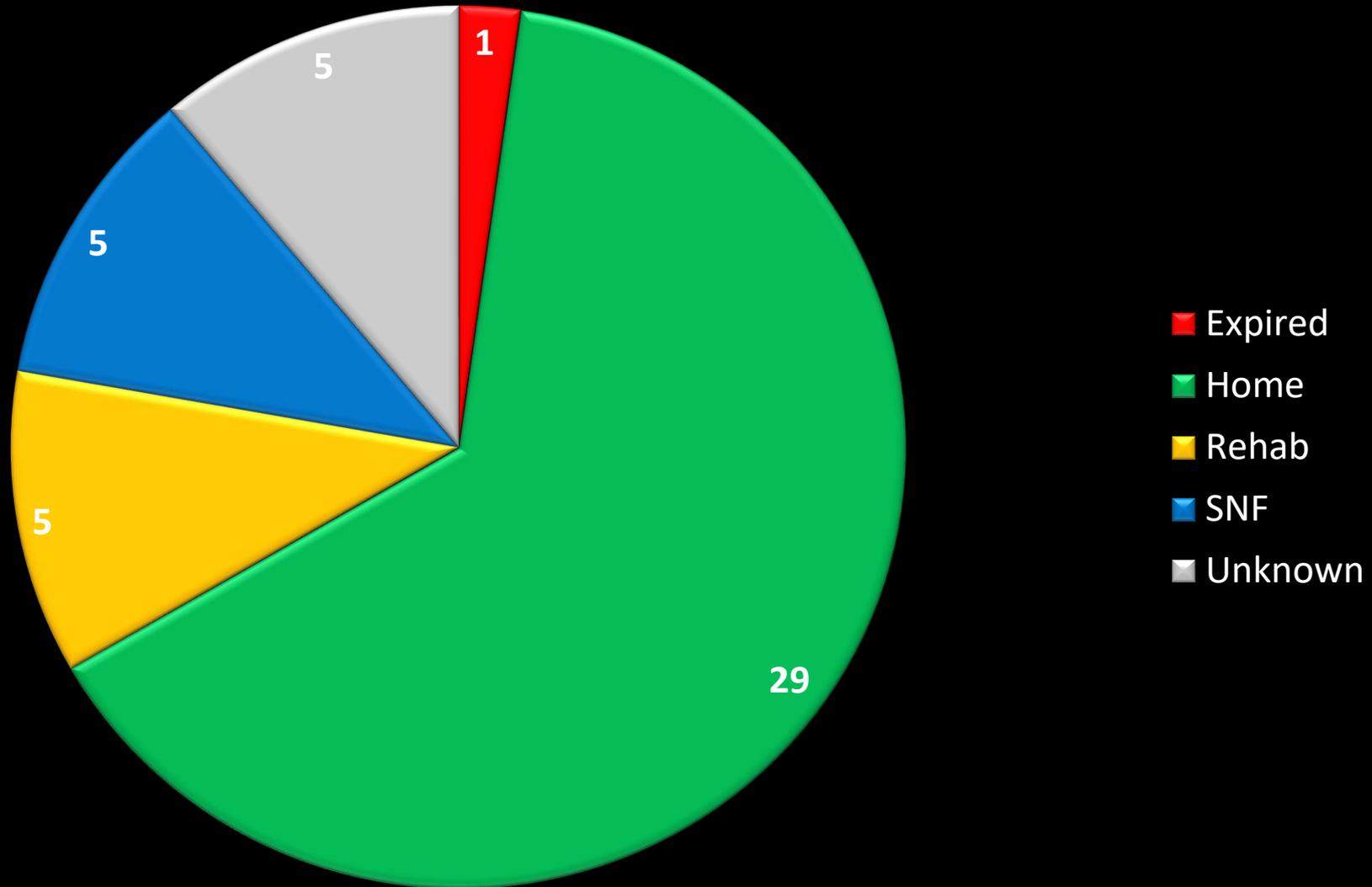


All Hospitals 3rd Qtr 2019
Hospital DCDx Stroke that did not Receive tPA or Intervention

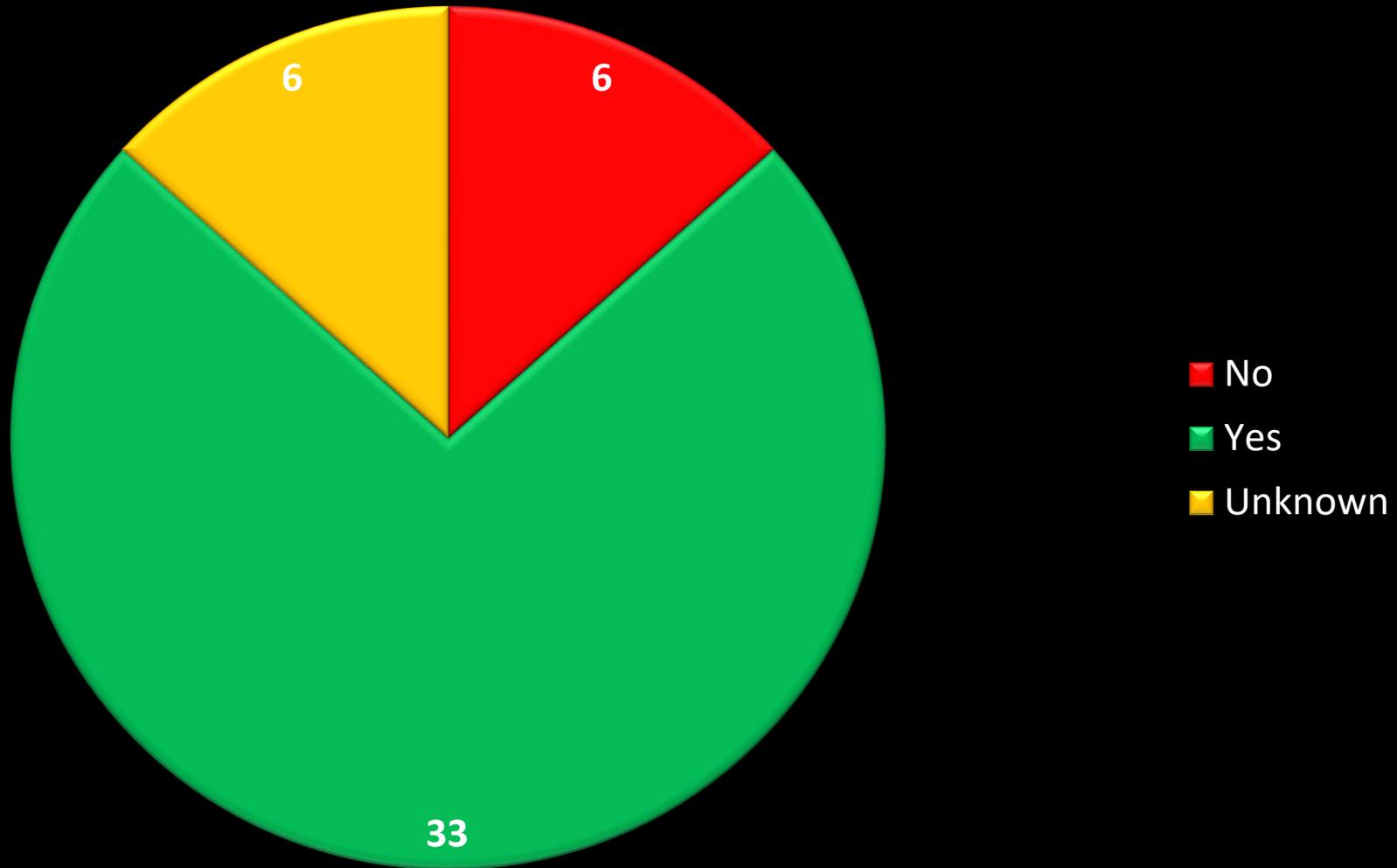


All Hospitals 3rd Qtr 2019

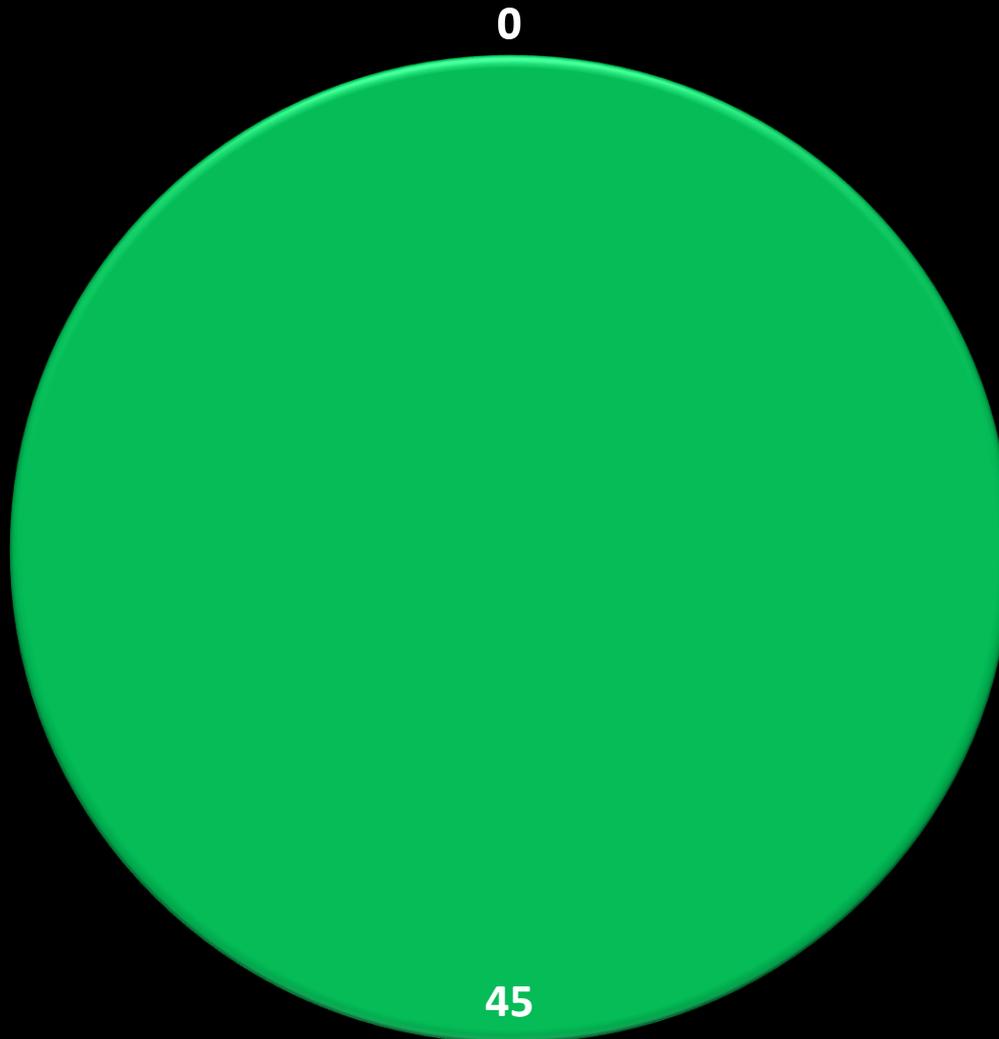
Outcomes for Wake EMS Stroke Patients who Received tPA



All Hospitals 3rd Qtr 2019
Wake EMS Stroke Patients who Received tPA
Symptom Improvement



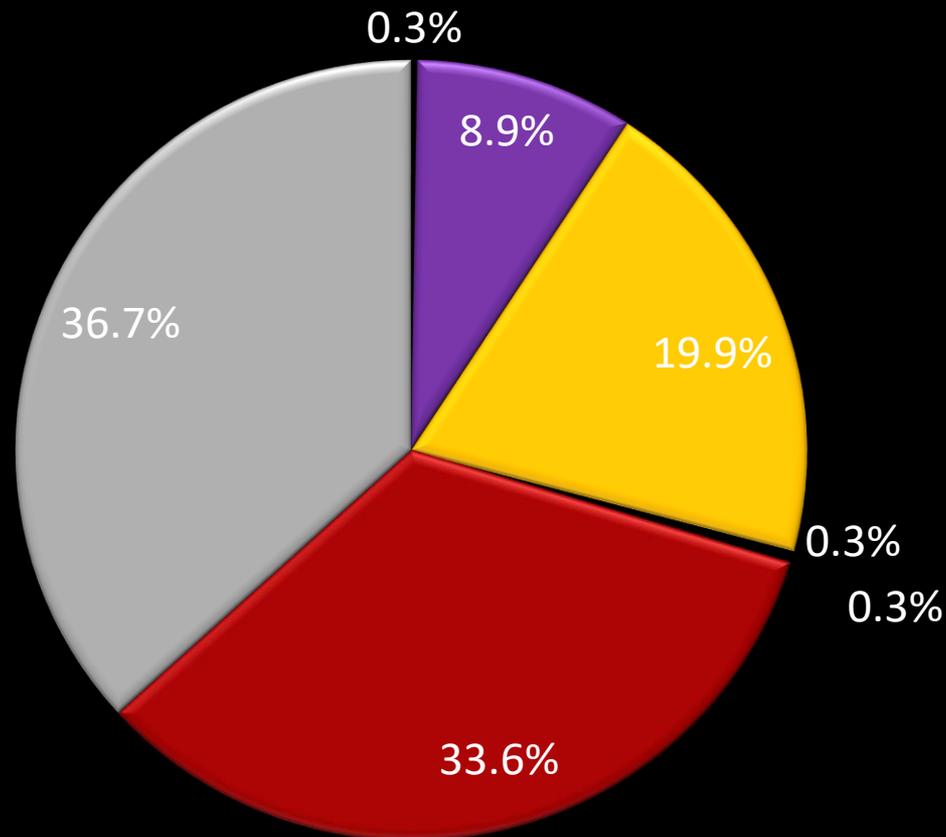
All Hospitals 3rd Qtr 2019
Wake EMS Stroke Patients who Received tPA
ICH Post Administration



-  No
-  Yes
-  Unknown

Destination for Wake EMS Patients with Suspected or Confirmed Stroke 3rd Qtr 2019

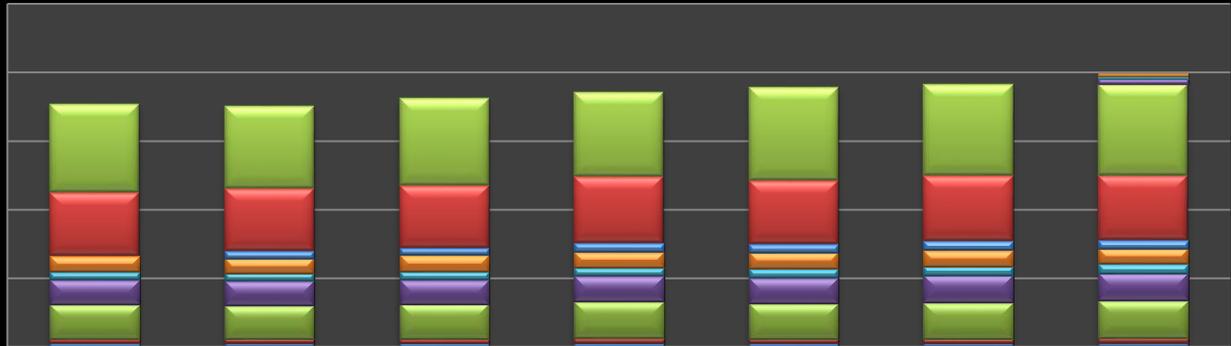
- Apex Healthplex-WakeMed
- Cary-WakeMed
- Duke Raleigh Hospital
- Garner Healthplex-WakeMed
- North-WakeMed
- Rex Healthcare
- WakeMed Main



Total Transports for the System

Number of Transports

25000
20000
15000
10000
5000
0



	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19
Out of County							246
UNC							171
Duke Durham							387
WakeMed Main	6404	6008	6279	6157	6765	6653	6633
Rex Healthcare	4623	4553	4567	4855	4649	4724	4745
Pediatric ED WakeMed		529	507	621	597	674	574
North- WakeMed	1169	1091	1221	1184	1208	1191	1109
Garner Healthplex WakeMed	545	560	590	580	640	636	712
Duke Raleigh Hospital	1804	1771	1763	1838	1859	1994	1968
Cary- WakeMed	2579	2439	2558	2679	2578	2610	2749
Brier Creek Healthplex- WakeMed	238	291	285	360	325	311	335
Apex Healthplex- WakeMed	306	330	302	298	287	324	324

Trauma

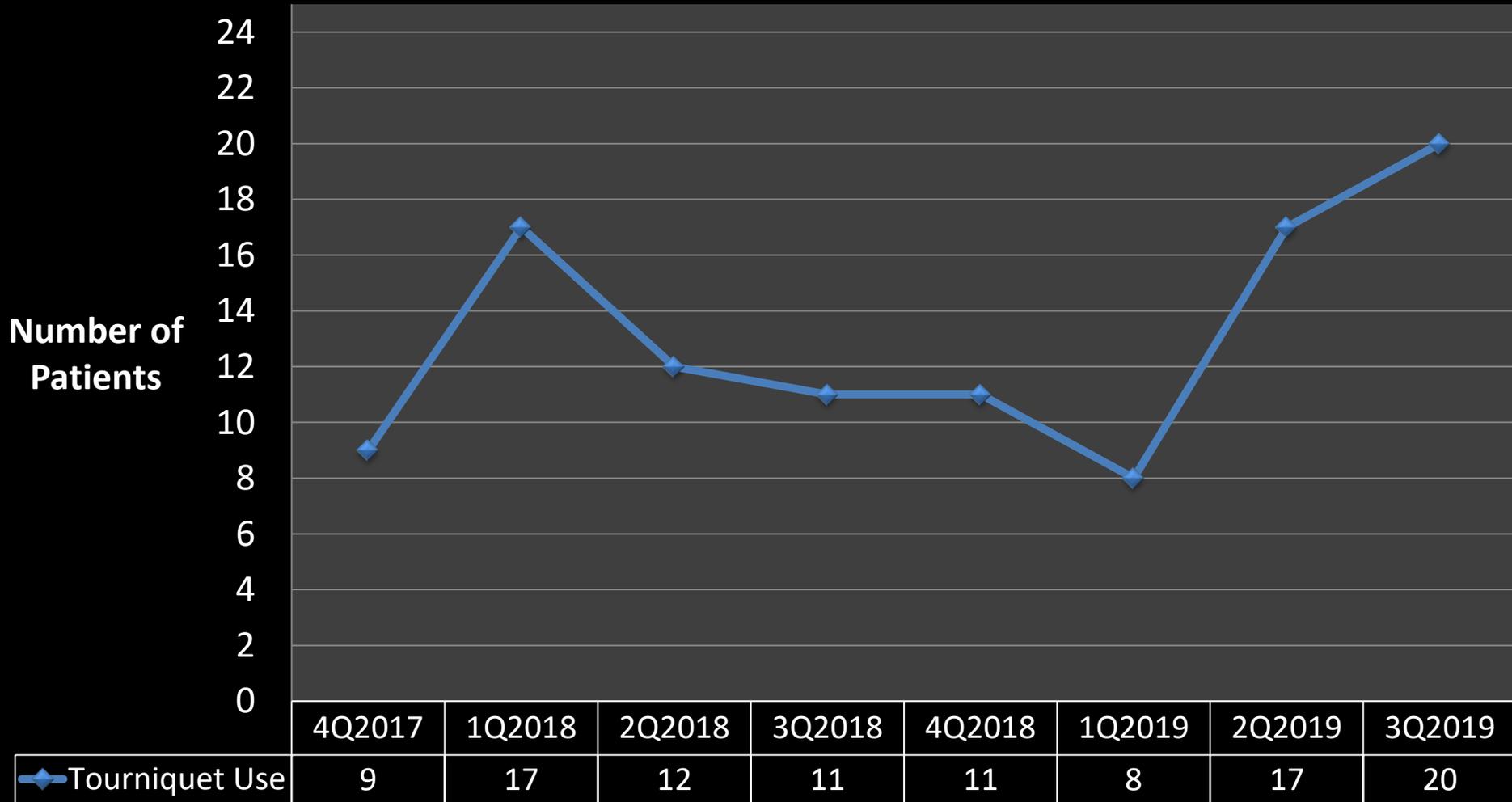
The Wake County EMS System – *Prompt, Compassionate, Clinically Excellent*



Care



Wake EMS System Tourniquet Use



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



Care



Cardiac Arrest

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



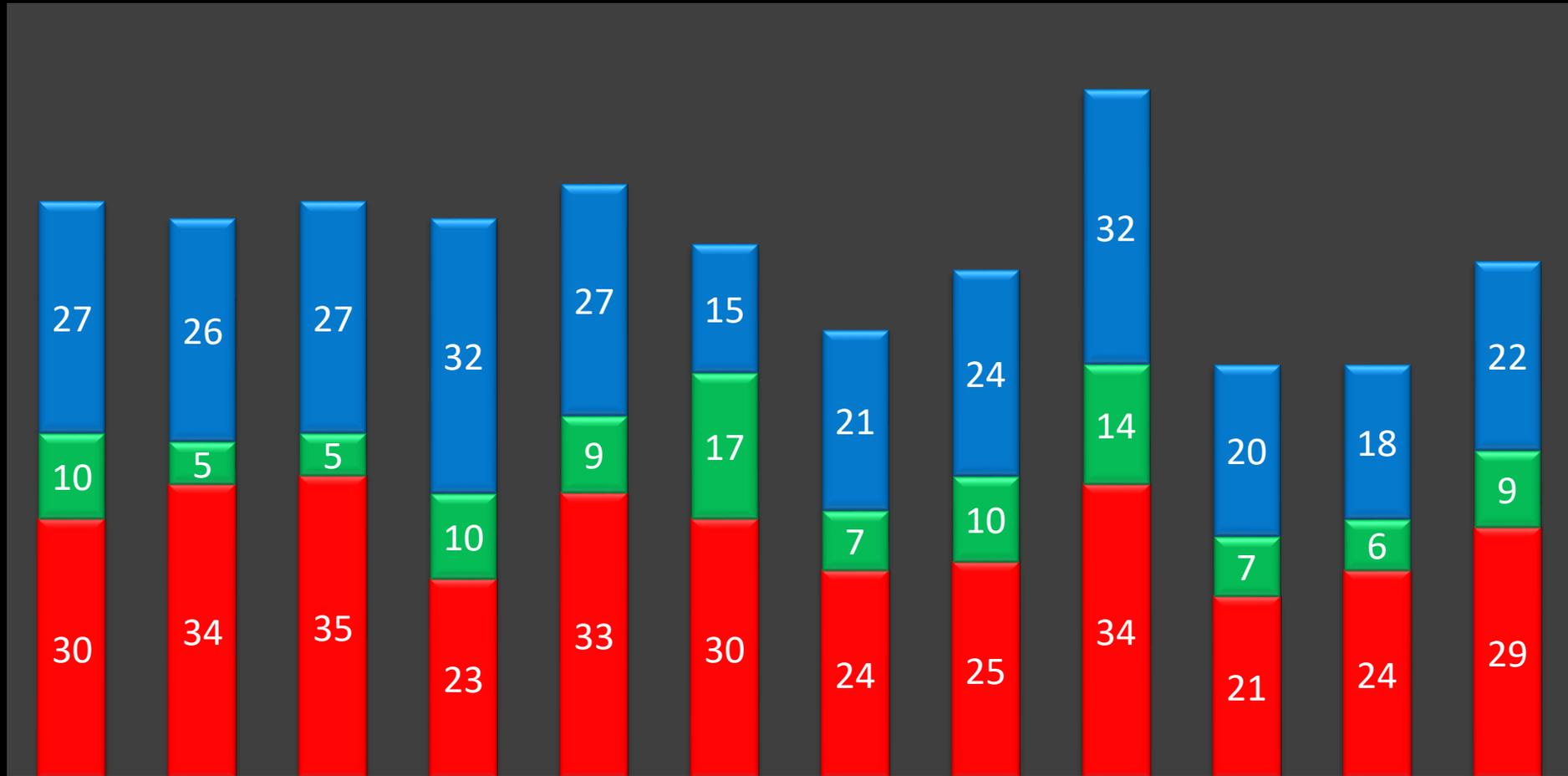
Care



Wake EMS Worked Cardiac Arrest

■ Resuscitation Ceased in the Field
■ Transport to Hospital with ROSC

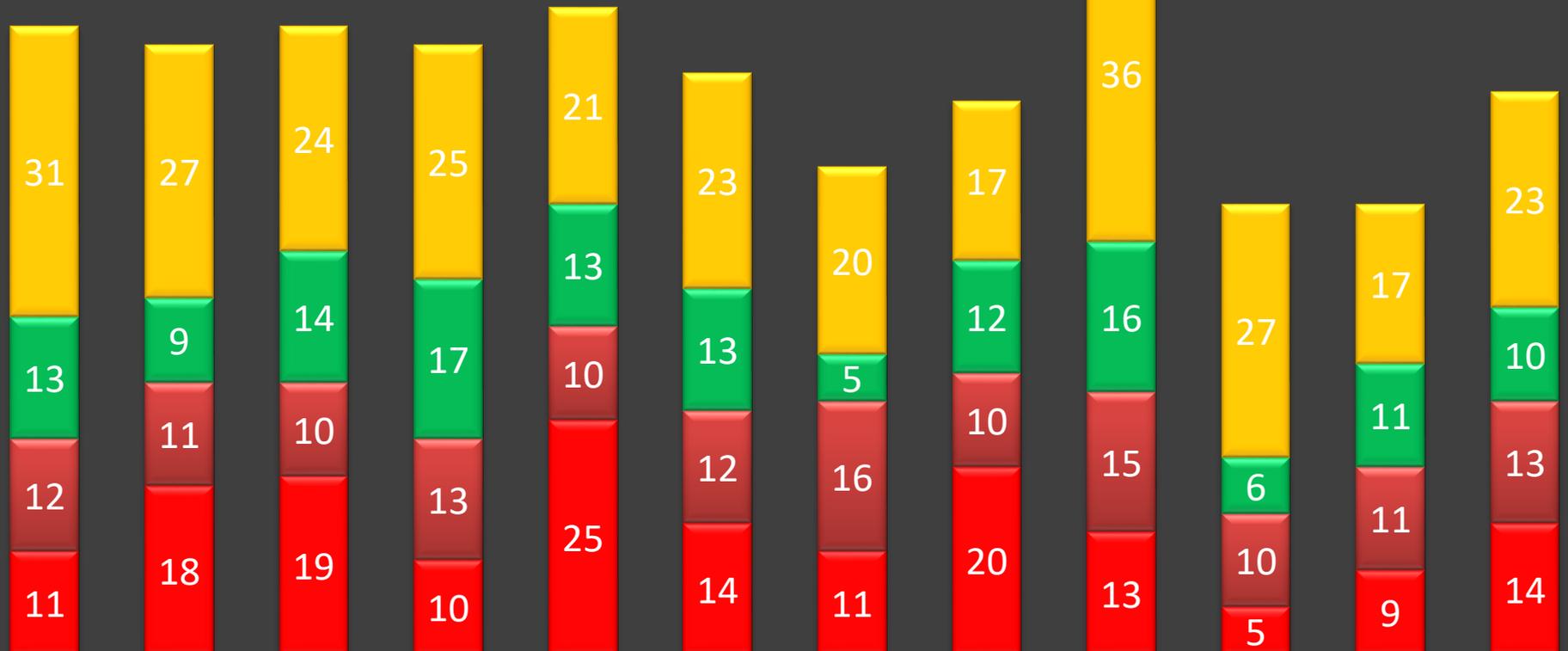
■ Transport to Hospital with no ROSC



Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
2018	2018	2018	2019	2019	2019	2019	2019	2019	2019	2019	2019
n=67	n=65	n=67	n=65	n=69	n=62	n=52	n=59	n=80	n=48	n=48	n=60

Cardiac Arrest Initial Rhythm

■ Aystole ■ PEA ■ VF/VT ■ Unknown Unshockable



Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
2018	2018	2018	2019	2019	2019	2019	2019	2019	2019	2019	2019
n=67	n=65	n=67	n=65	n=69	n=62	n=52	n=59	n=80	n=48	n=48	n=60

Respiratory Distress

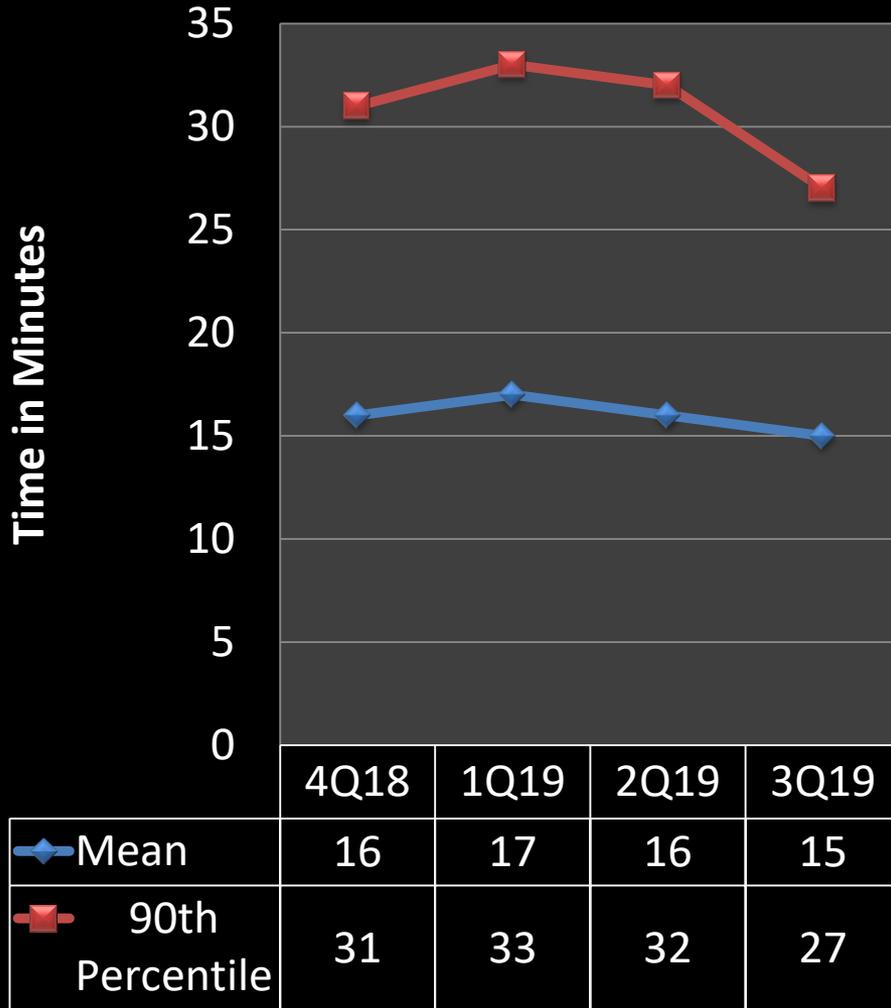
The Wake County EMS System – *Prompt, Compassionate, Clinically Excellent*



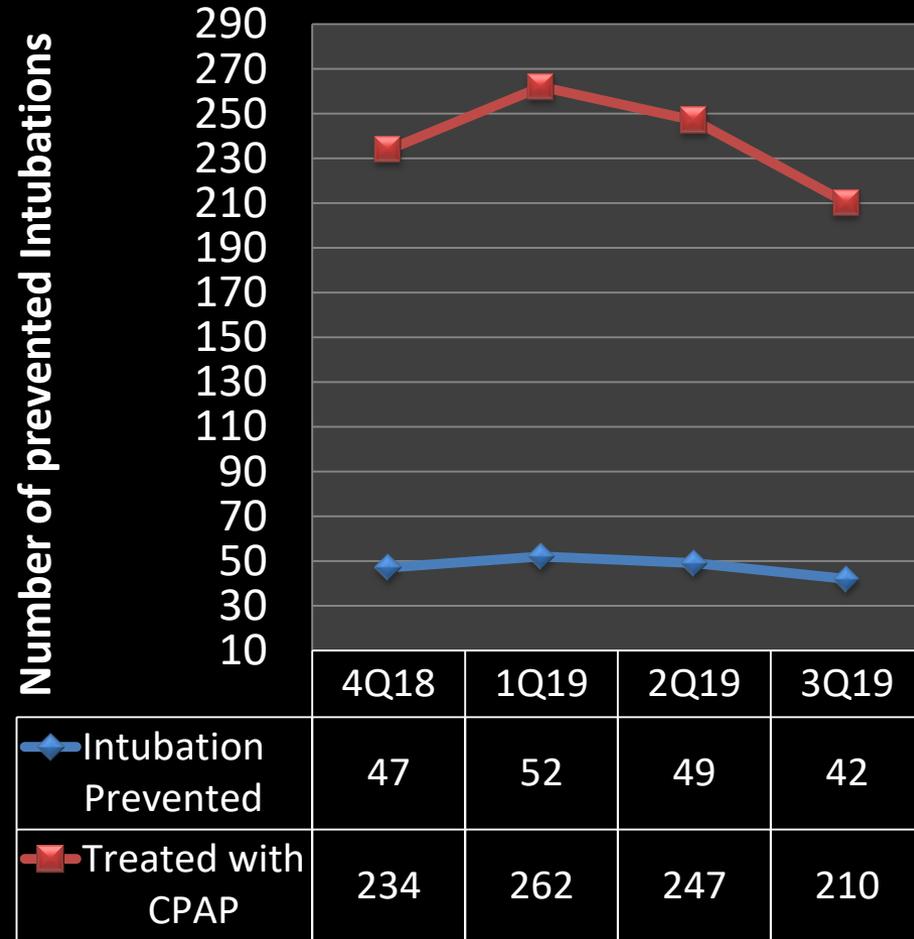
Care



Wake EMS System CPAP Application Time



Wake EMS System Intubation Prevented with CPAP



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



Care



Miscellaneous Reports

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

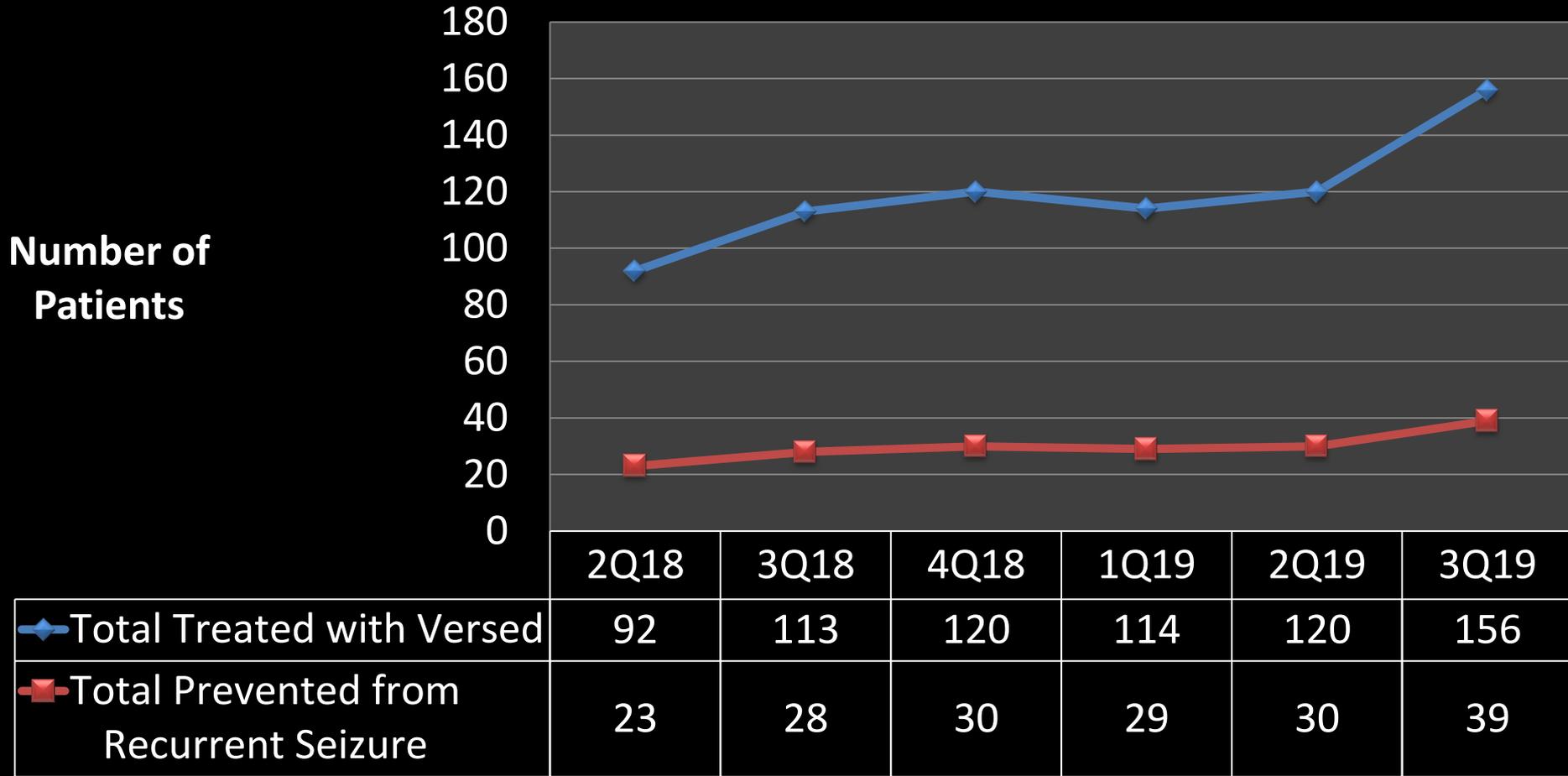


Care



Wake EMS System

Seizure Patients Treated with Versed



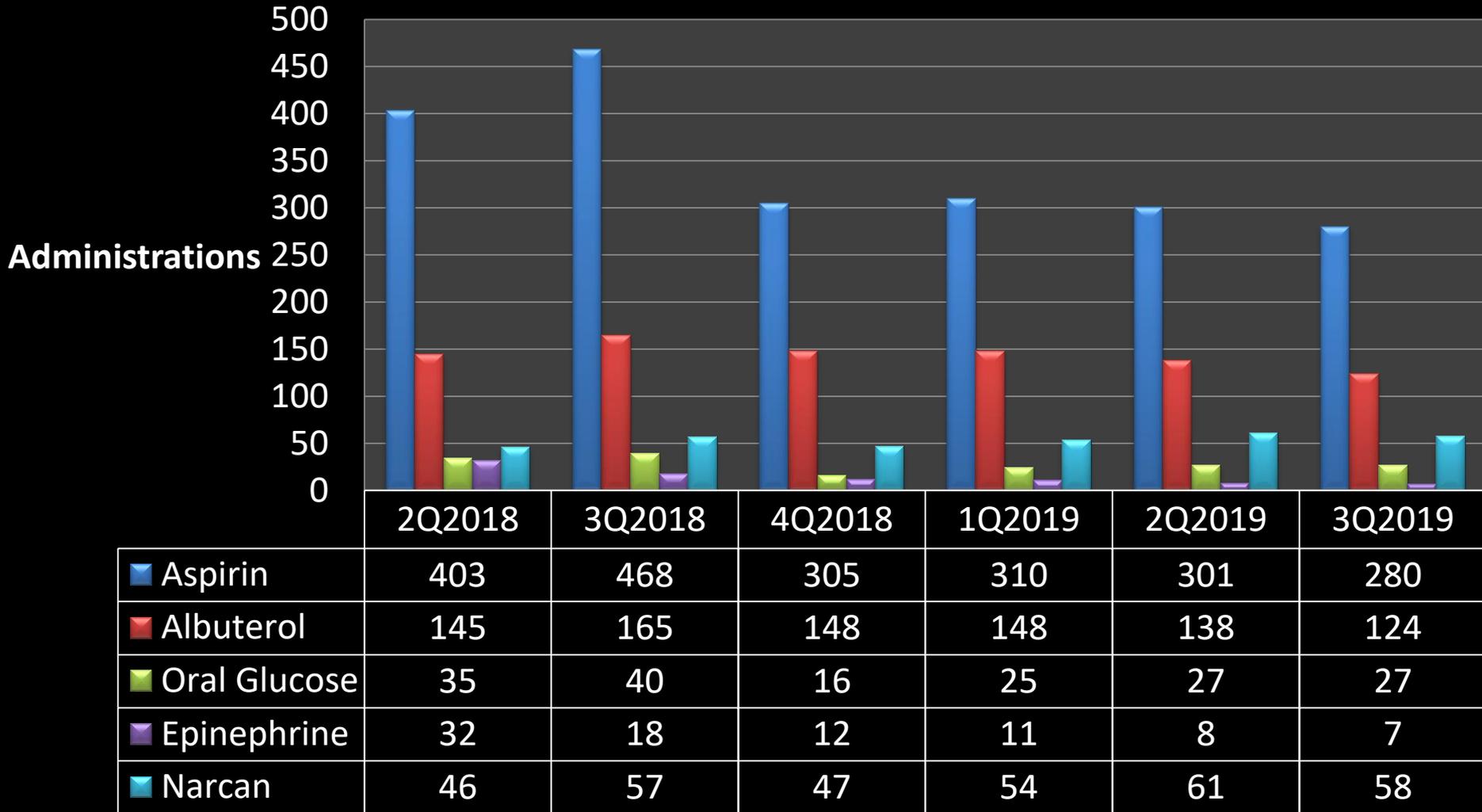
The Wake County EMS System – *Prompt, Compassionate, Clinically Excellent*



Care



Medications Administered by First Responders – Derived from EMS Documentation



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



Care

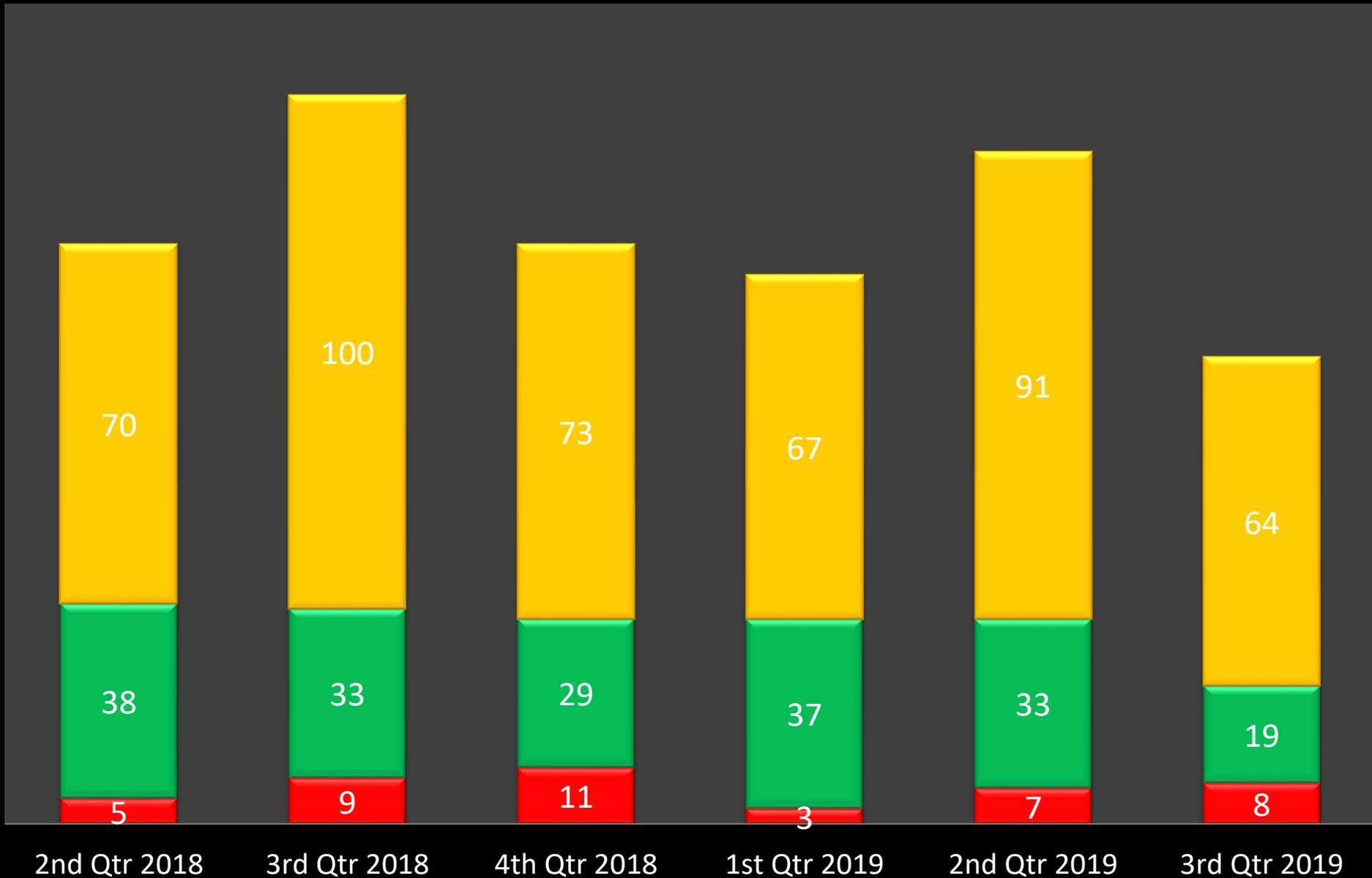


Reason for OMD Contact

■ Automatic Notification

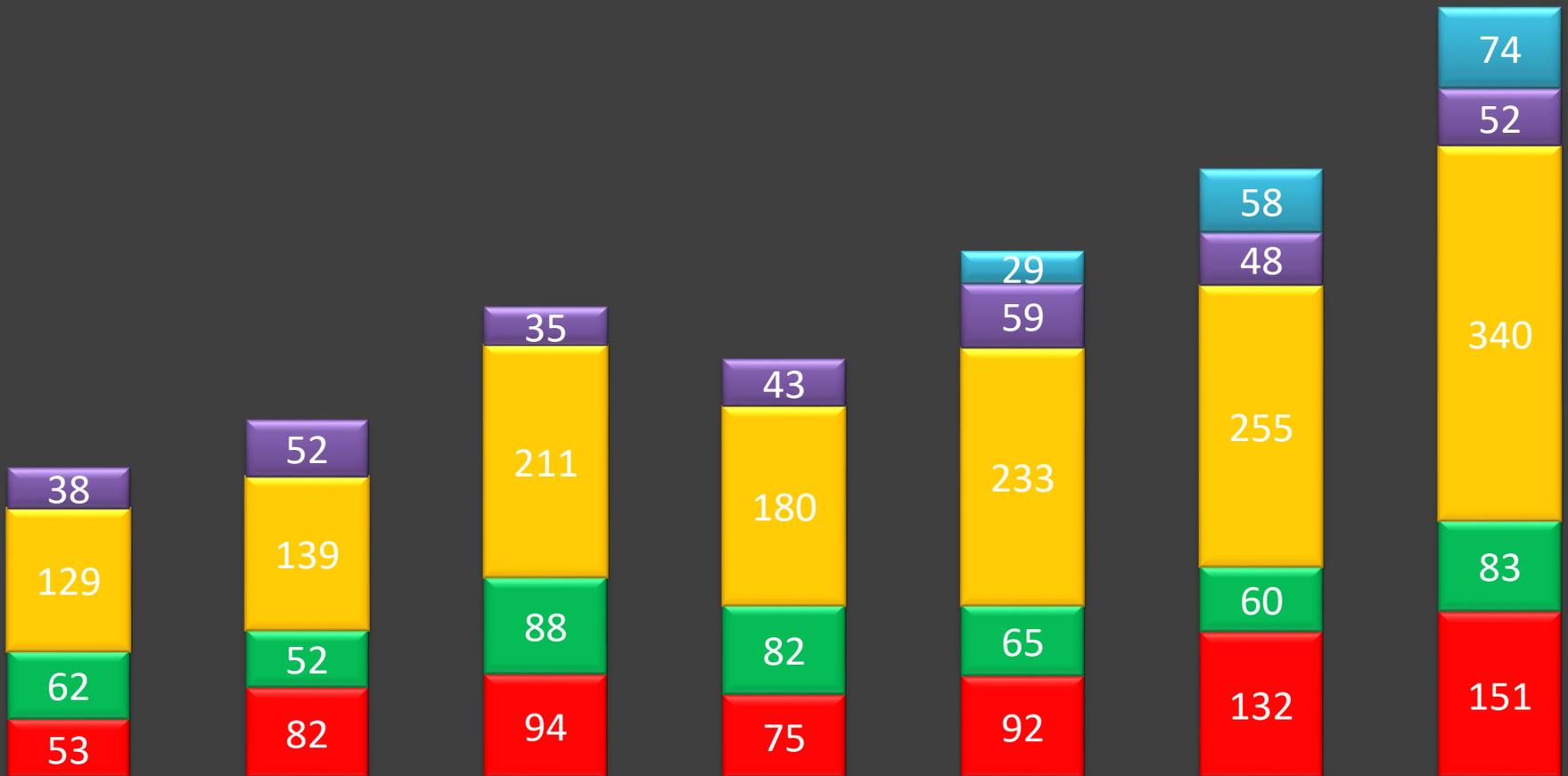
■ Medical Control Order

■ Unusual Event



APP Alternate Destination

- No Transport
- Transport to ED
- Mobile Crisis
- Transport to Alternative Location
- Transported to Psychiatric Hospital



1Q2018 n=282 2Q2018 n=325 3Q2018 n=428 4Q2018n=380 1Q2019 n=449 2Q2019 n=495 3Q2019 n=626

3rd Quarter 2019 Alternate Destination Reason for ED Transport

