

Wake EMS System Peer Review Clinical Data

1st Quarter 2018

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



Care



STEMI

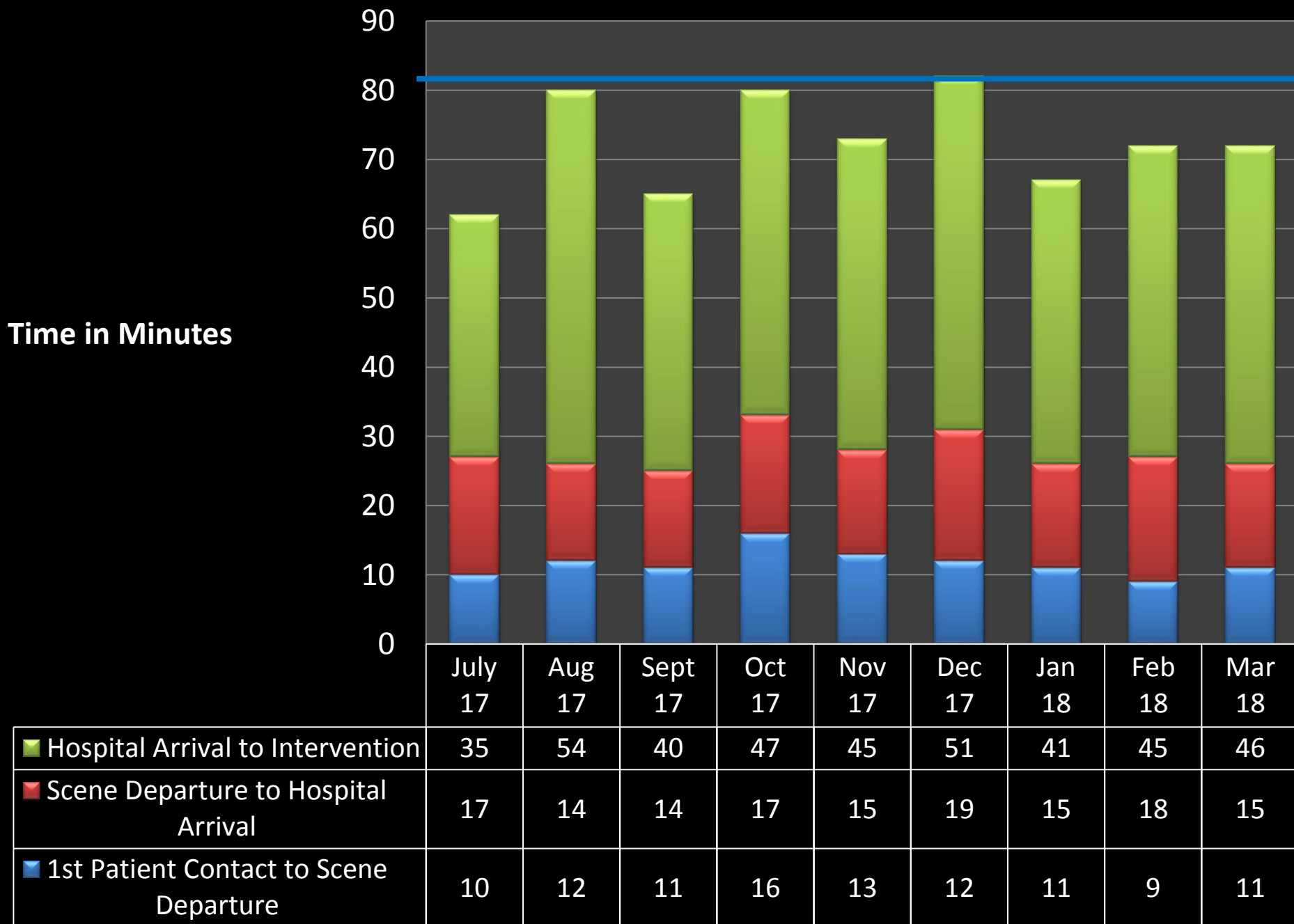
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Mean Time for Patients with Confirmed STEMI; Combined for All Hospitals



STEMI Over Triage

1st Quarter 2018

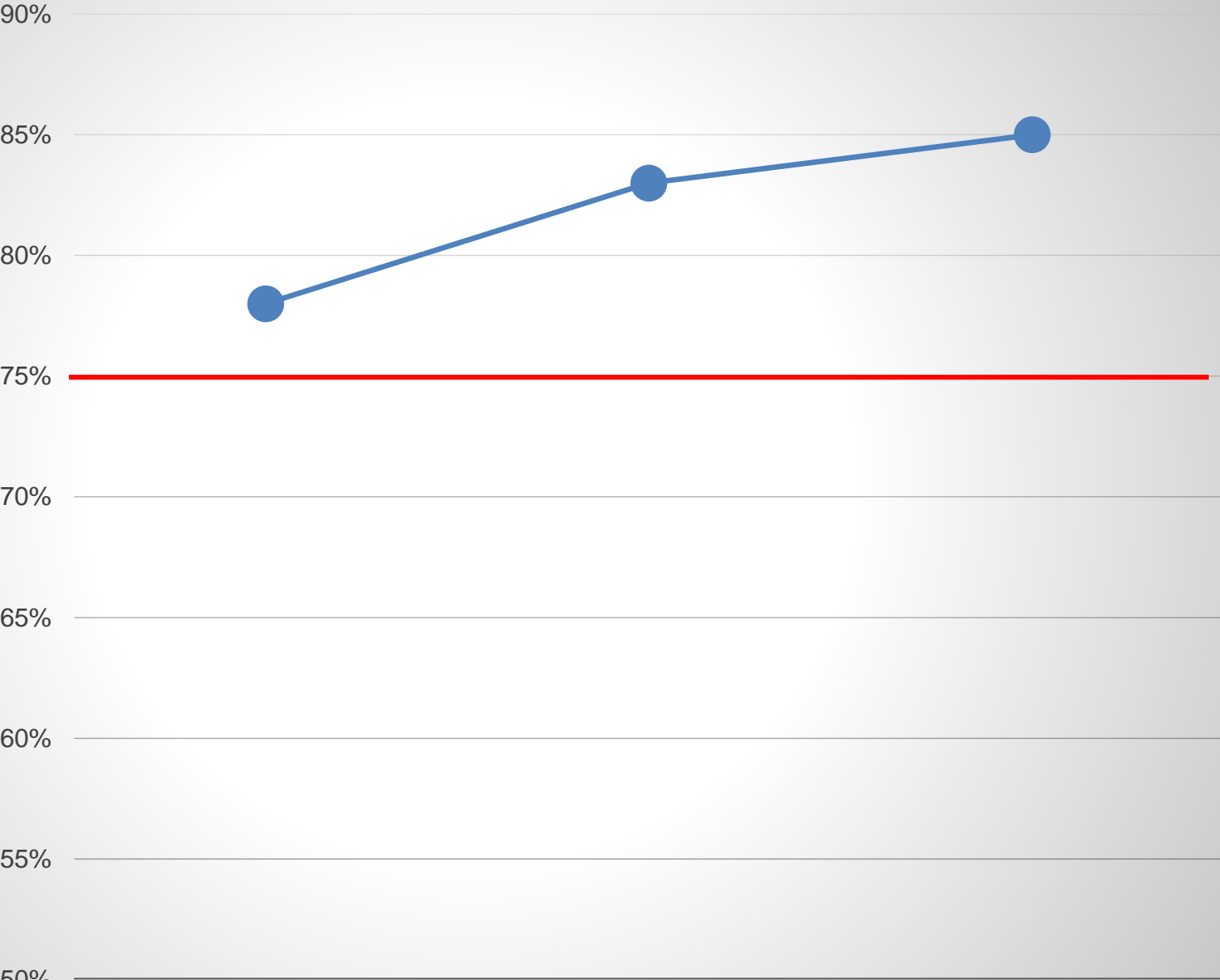
Category	Total From Hospitals	Final Disposition = Triage Correctly	Final Disposition = Over Triage
ED EKG Does Not Meet STEMI Criteria	19	18	1
ST Elevation Resolved	1	1	0
EKG Unchanged from Previous EKG	12	12	0
STEMI Imposter (LVH, J Point Elev., Etc)	3	0	3

3% Over triage Rate

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



Percent Administered

ASA Administered

Jan 2018

Feb 2018

Mar 2018

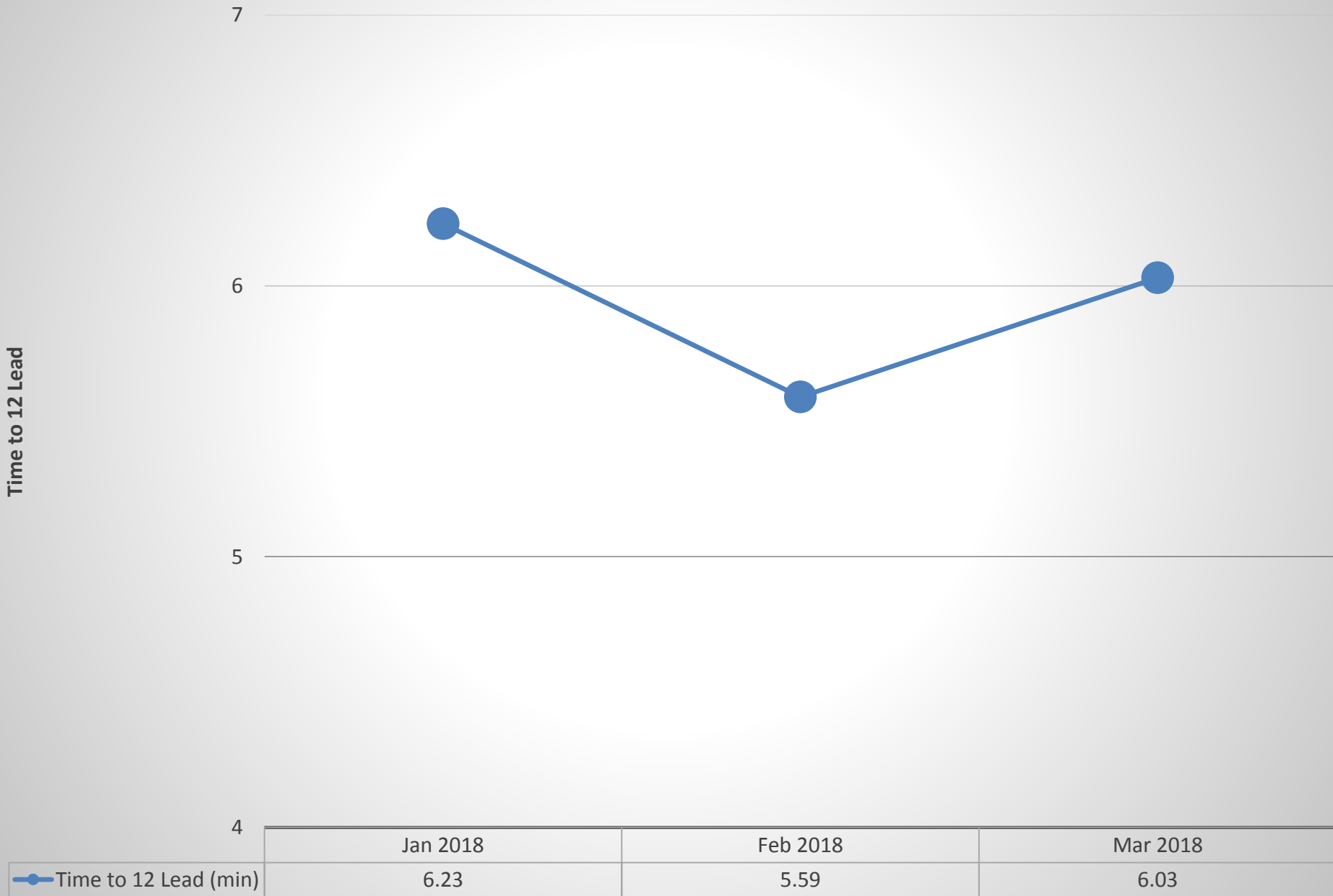
78%

83%

85%

Wake EMS

Chest Pain Patient Contact to 12lead Time in Minutes



Stroke

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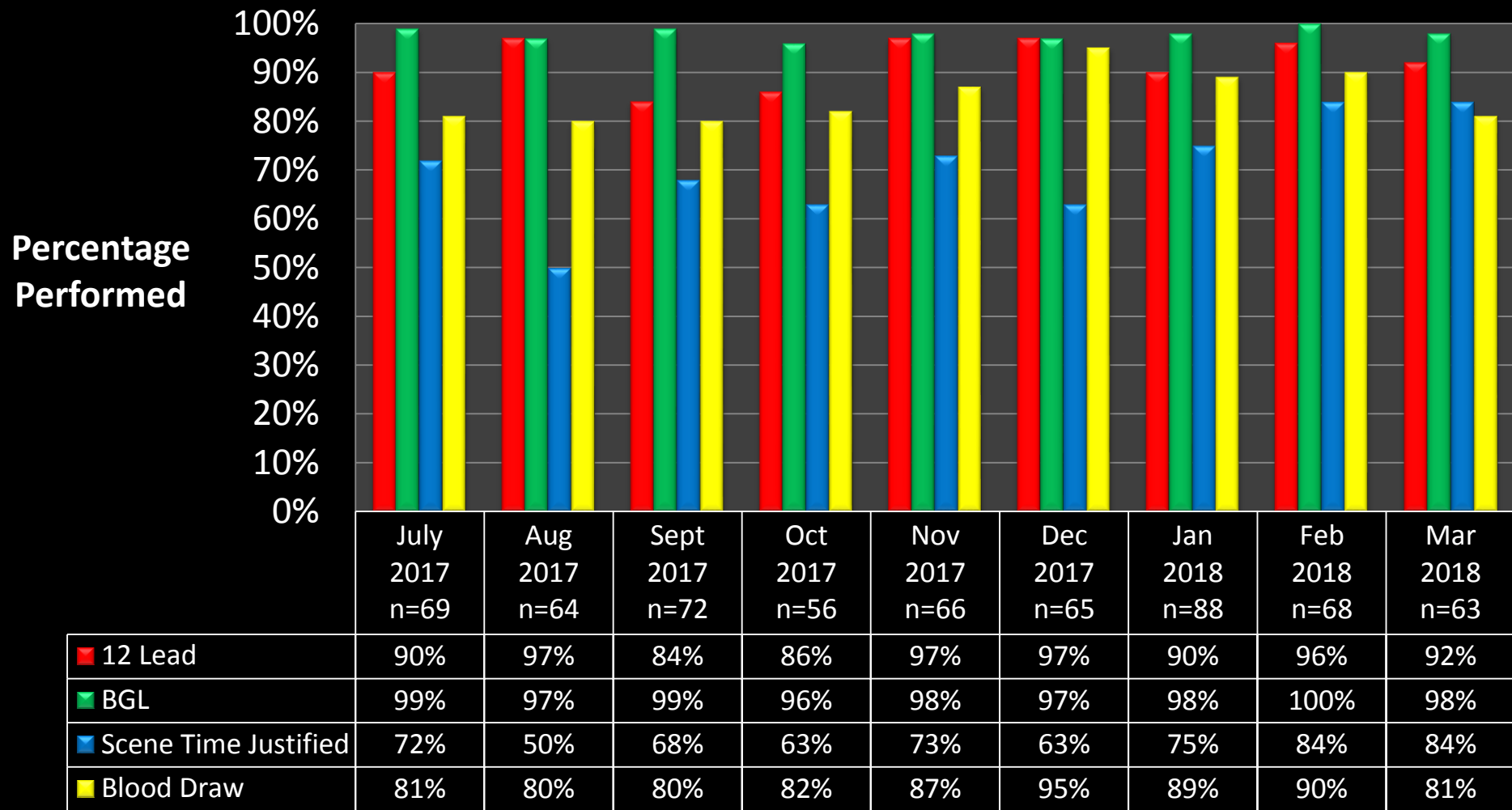


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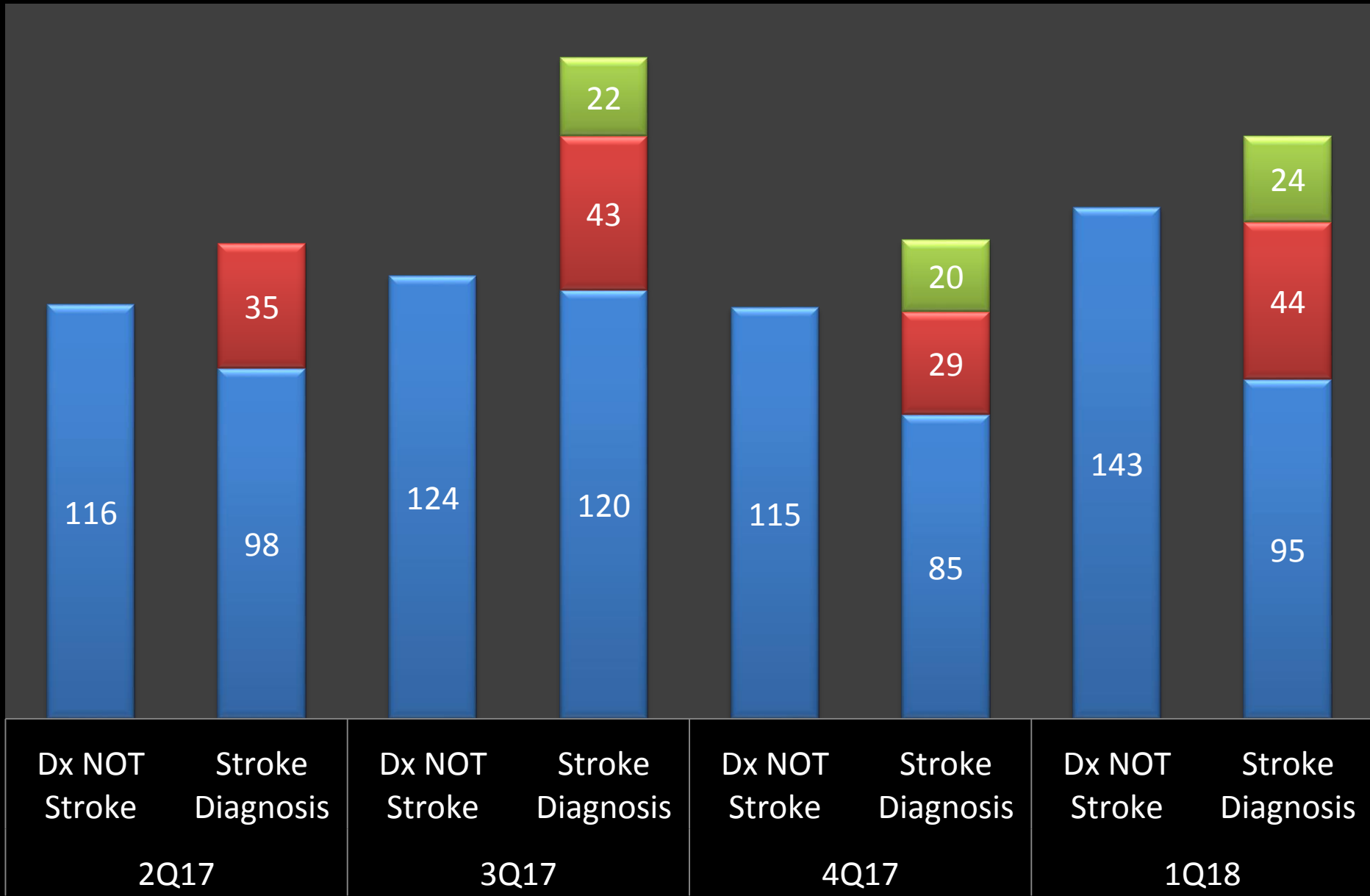
EMS Stroke Evidence Based Medicine Measures

Patients Transported by EMS with Suspected or Confirmed Stroke

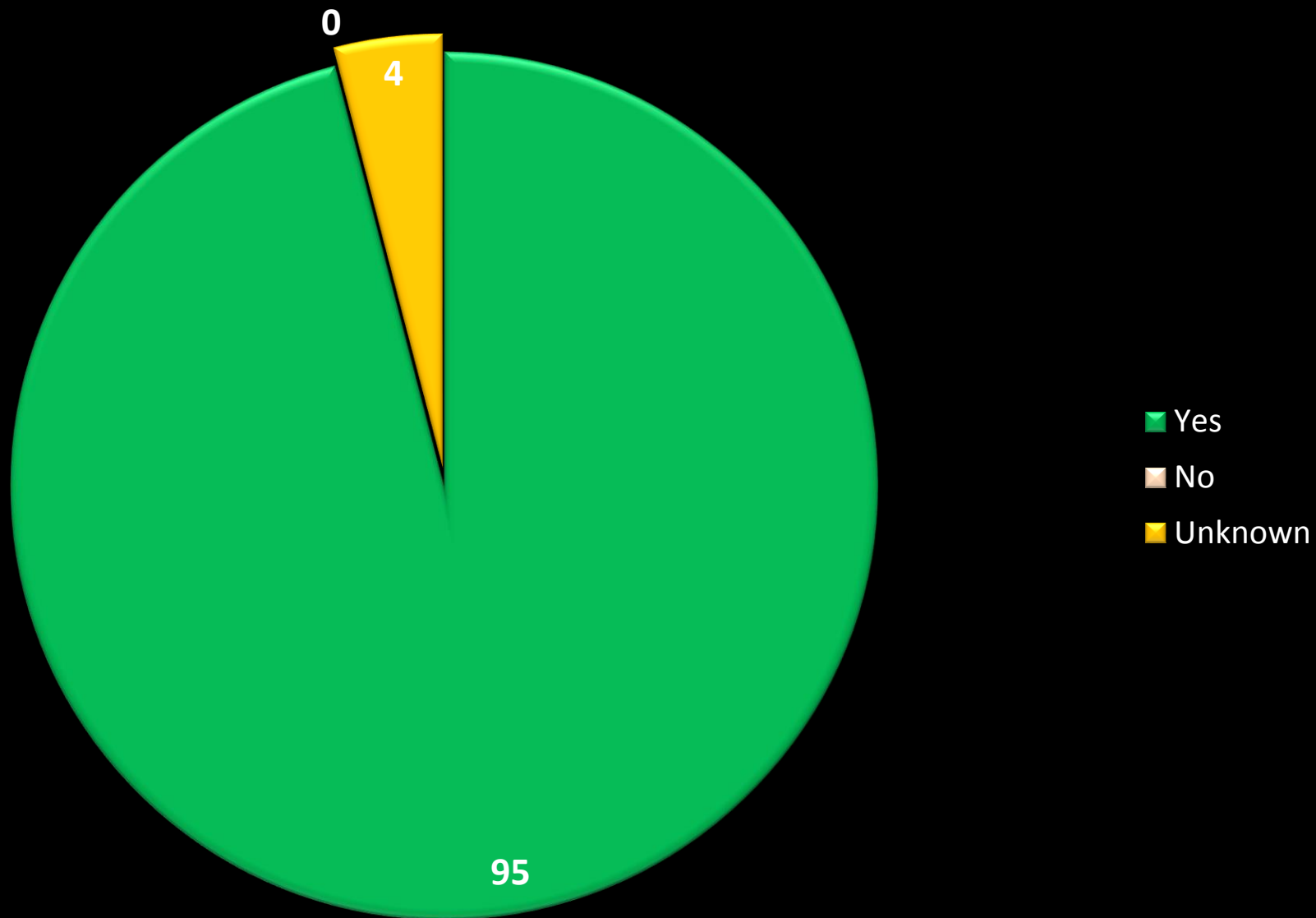


Code Strokes by EMS taken to Wake County Hospitals

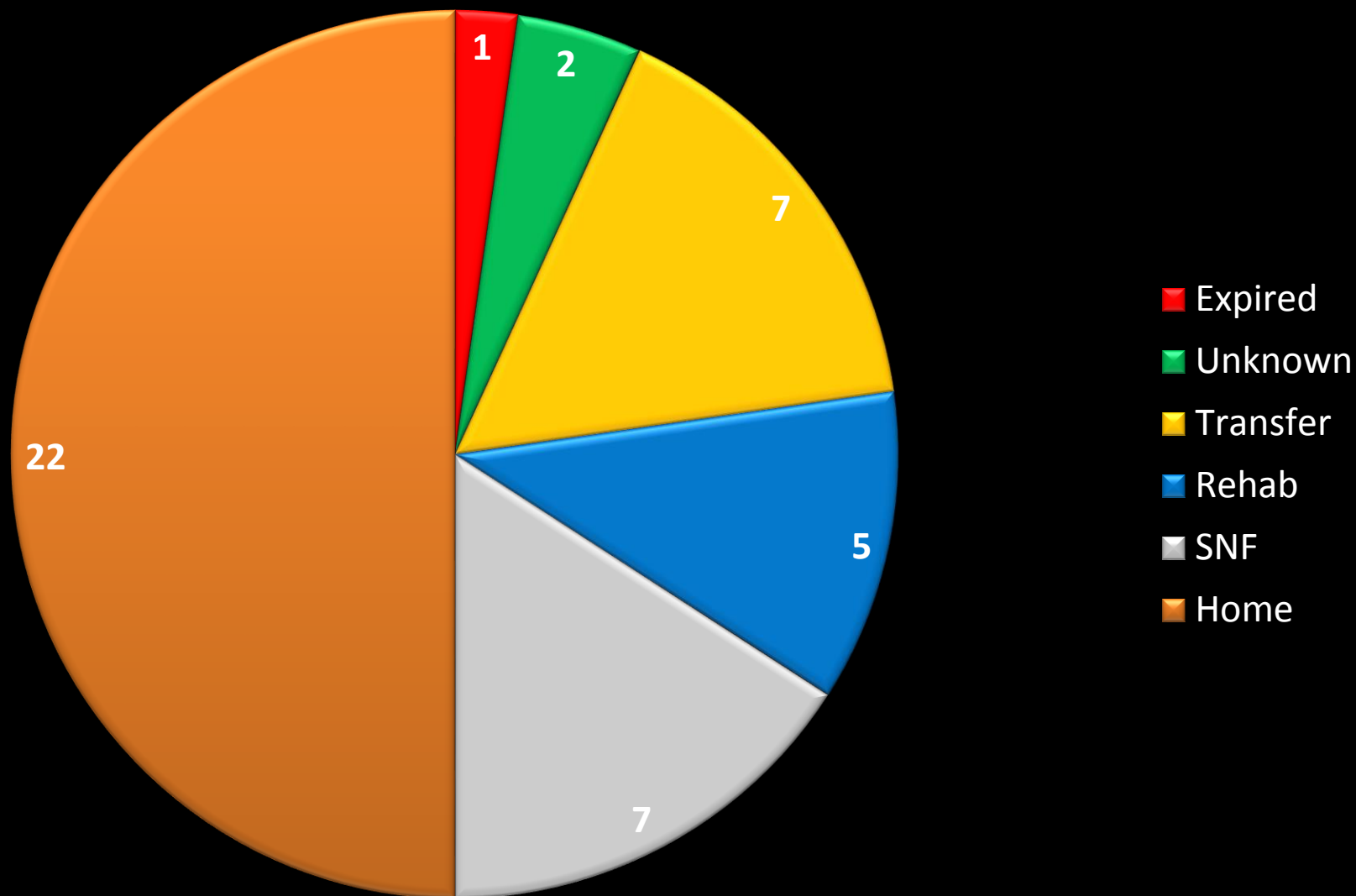
■ No TPA Given ■ TPA Given ■ ICH



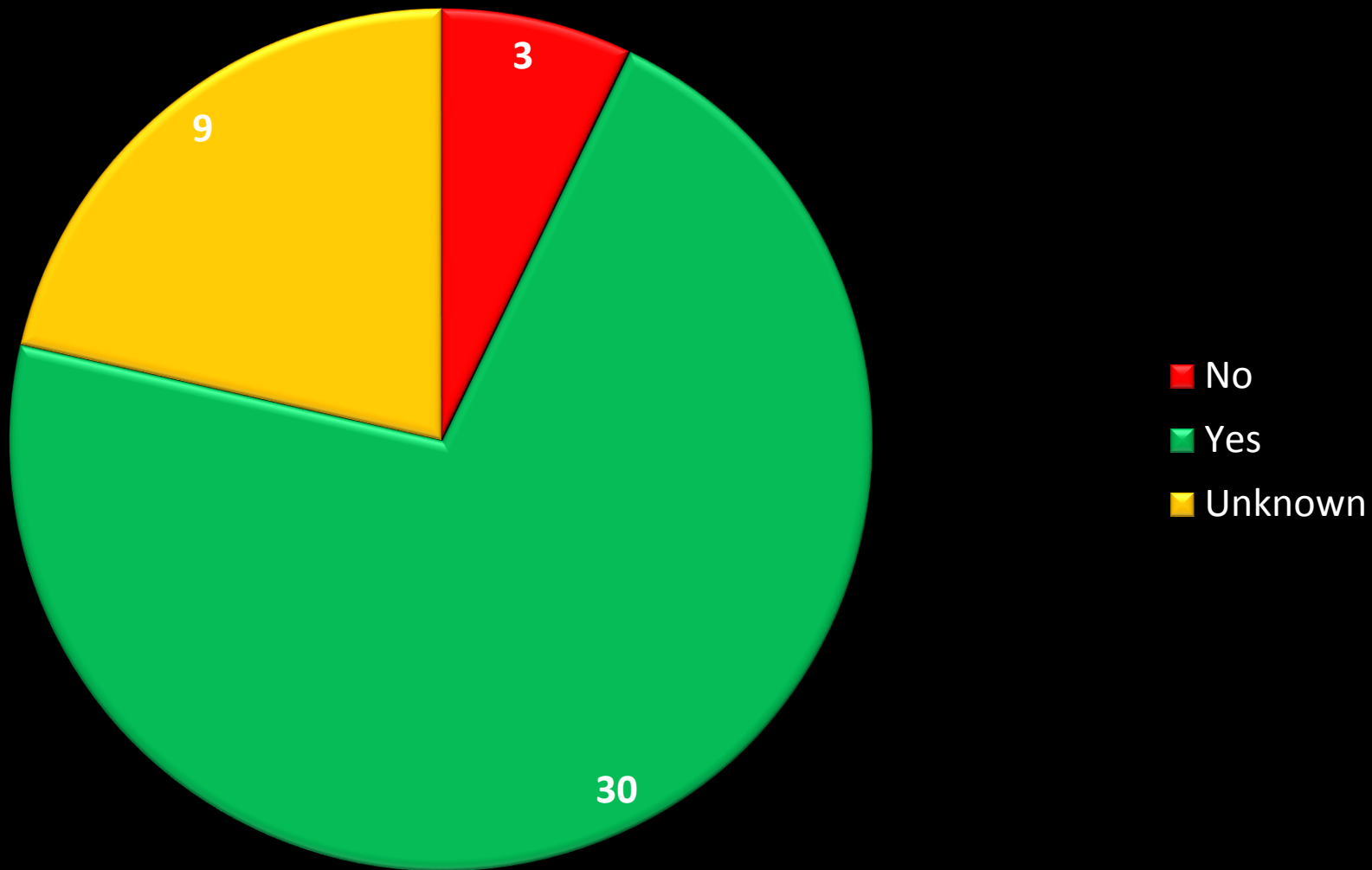
All Hospitals 1st Qtr 2018
Hospital DCDx Stroke that did not Receive tPA or Intervention



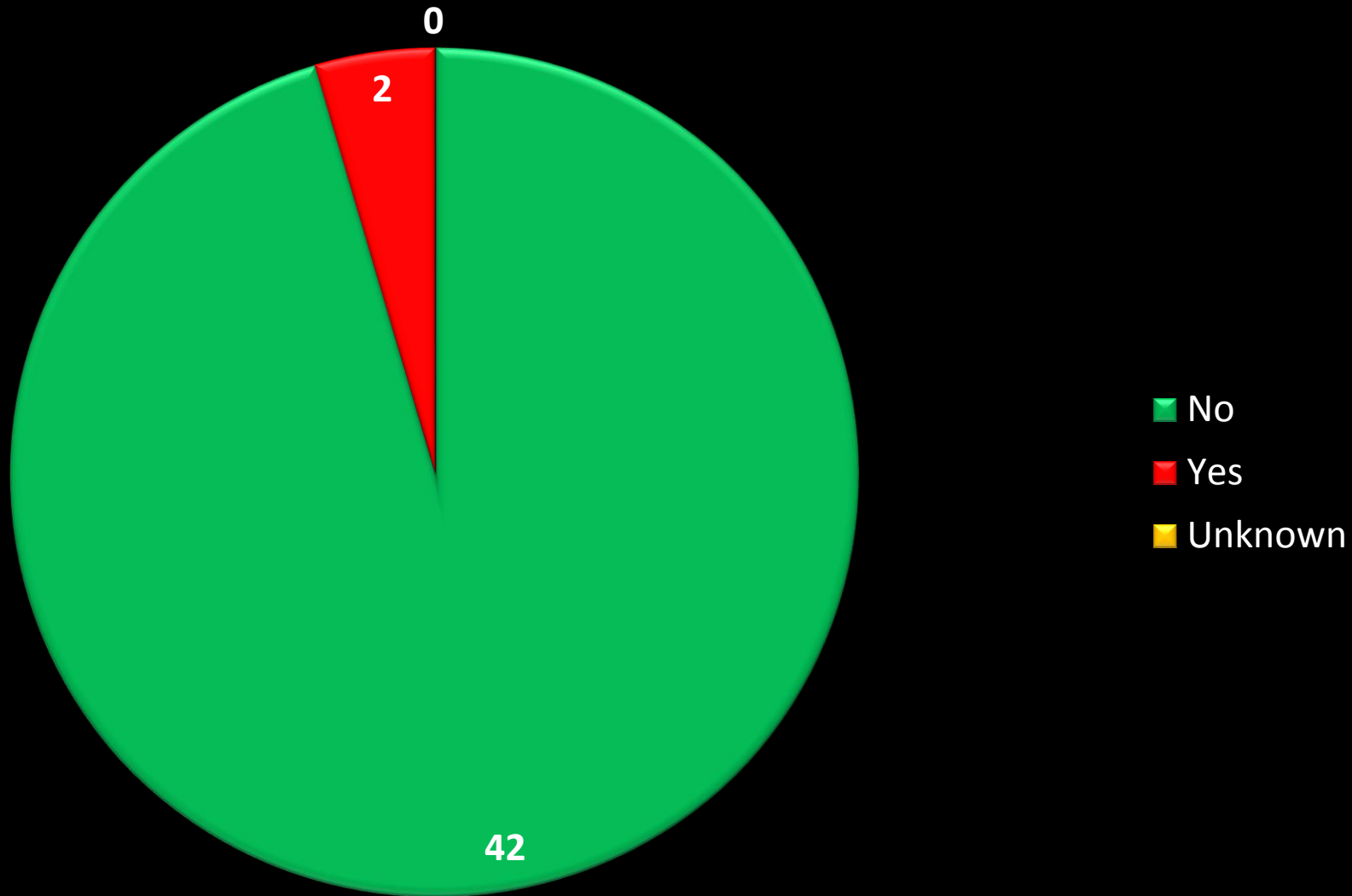
All Hospitals 1st Qtr 2018
Outcomes for Wake EMS Stroke Patients who Received tPA



All Hospitals 1st Qtr 2018
Wake EMS Stroke Patients who Received tPA
Symptom Improvement

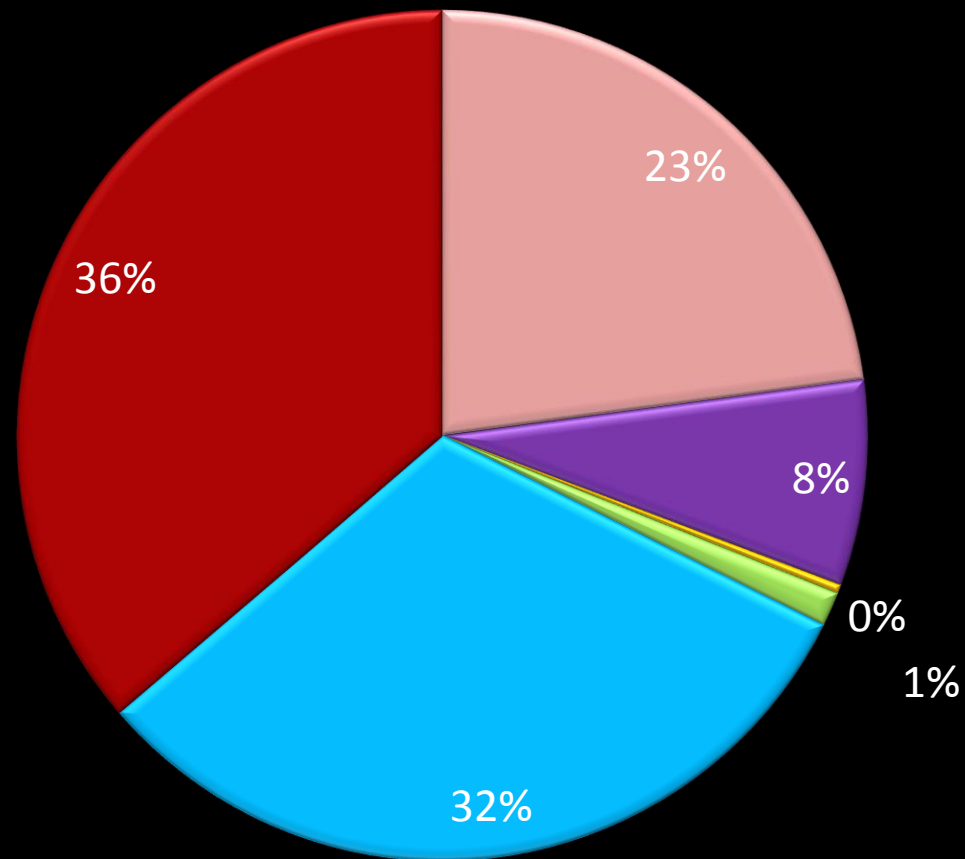


All Hospitals 1st Qtr 2018
Wake EMS Stroke Patients who Received tPA
ICH Post Administration



Destination for Wake EMS Patients with Suspected or Confirmed Stroke 1st Qtr 2018

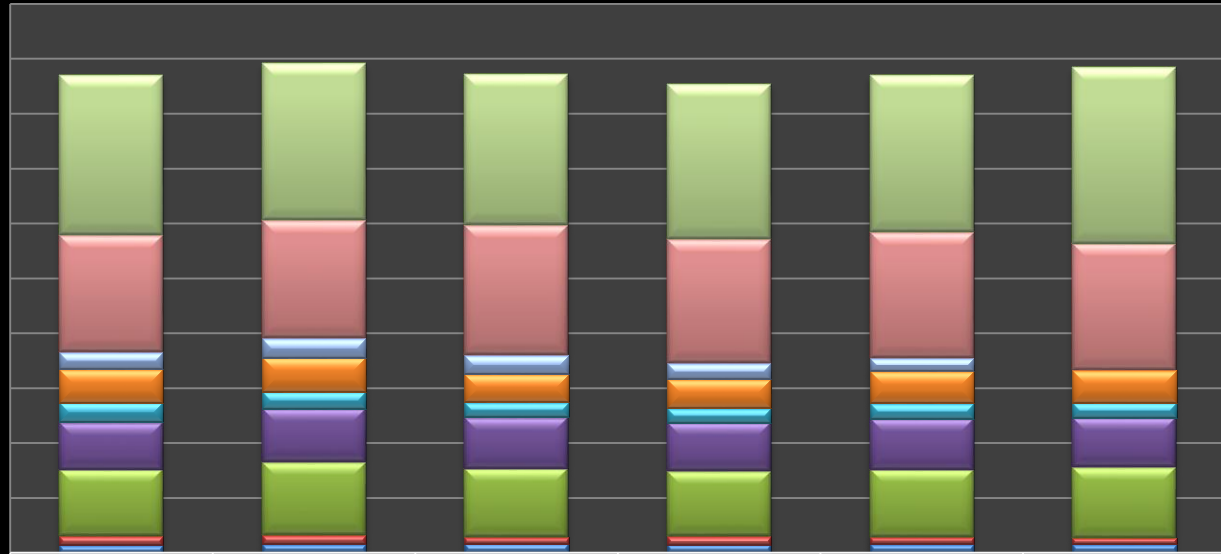
- Cary- WakeMed
- Duke Raleigh Hospital
- Garner Healthplex WakeMed
- North- WakeMed
- Rex Healthcare
- WakeMed Main



Total Transports for the System

Number of Transports

20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0



	3Q16	1Q17	2Q17	3Q17	4Q17	1Q18
WakeMed Main	5830	5739	5502	5653	5731	6404
Rex Healthcare	4272	4296	4731	4523	4568	4623
Pediatric ED WakeMed	601	684	685	579	473	
North- WakeMed	1214	1252	1028	1051	1160	1169
Garner Healthplex WakeMed	720	616	536	533	567	545
Duke Raleigh Hospital	1732	1962	1886	1788	1865	1804
Cary- WakeMed	2406	2662	2493	2367	2473	2579
Brier Creek Healthplex- WakeMed	326	321	239	289	244	238
Apex Healthplex- WakeMed	293	313	333	297	314	306

Trauma

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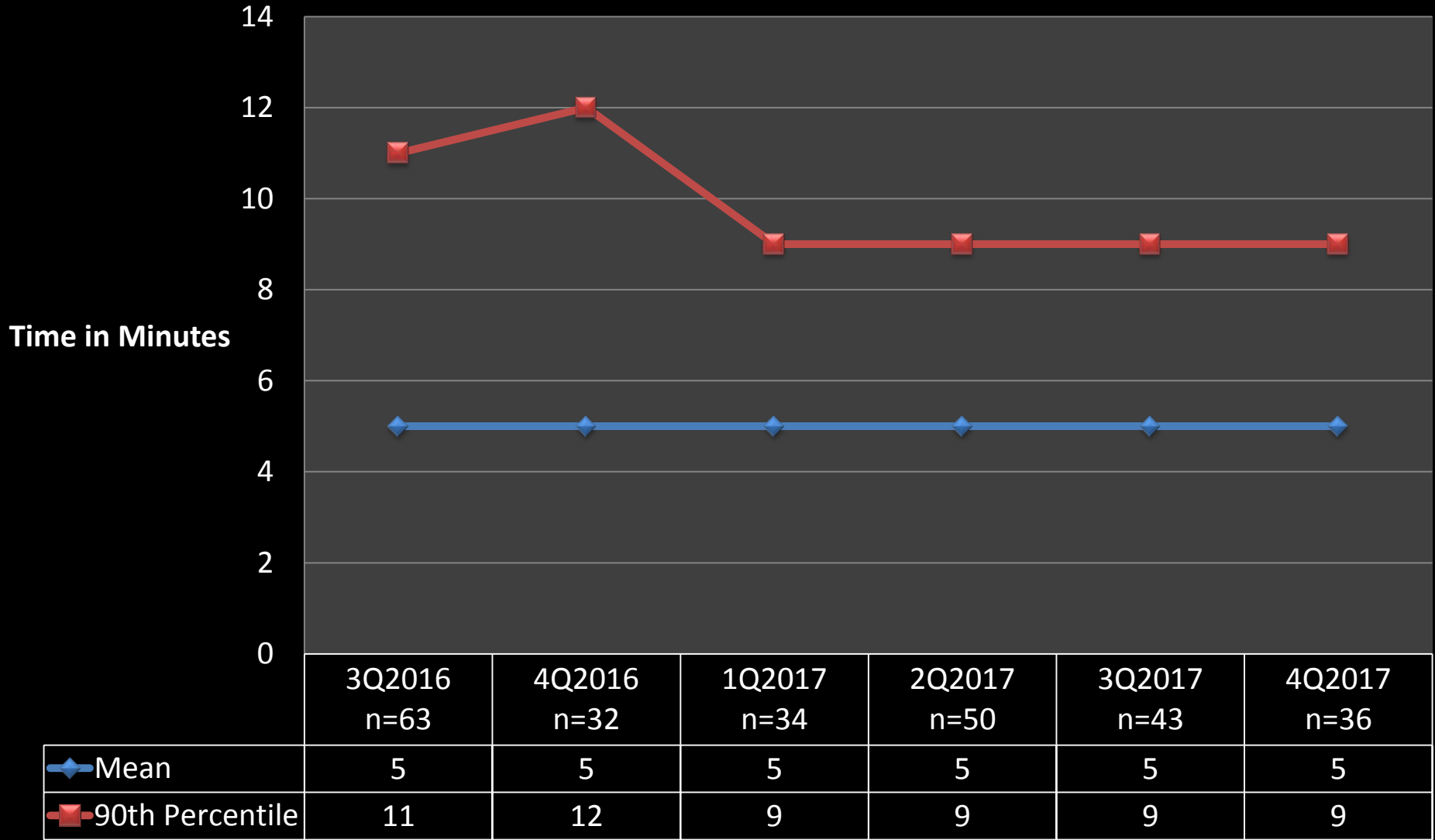


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Wake EMS System

Penetrating Trauma Scene Times

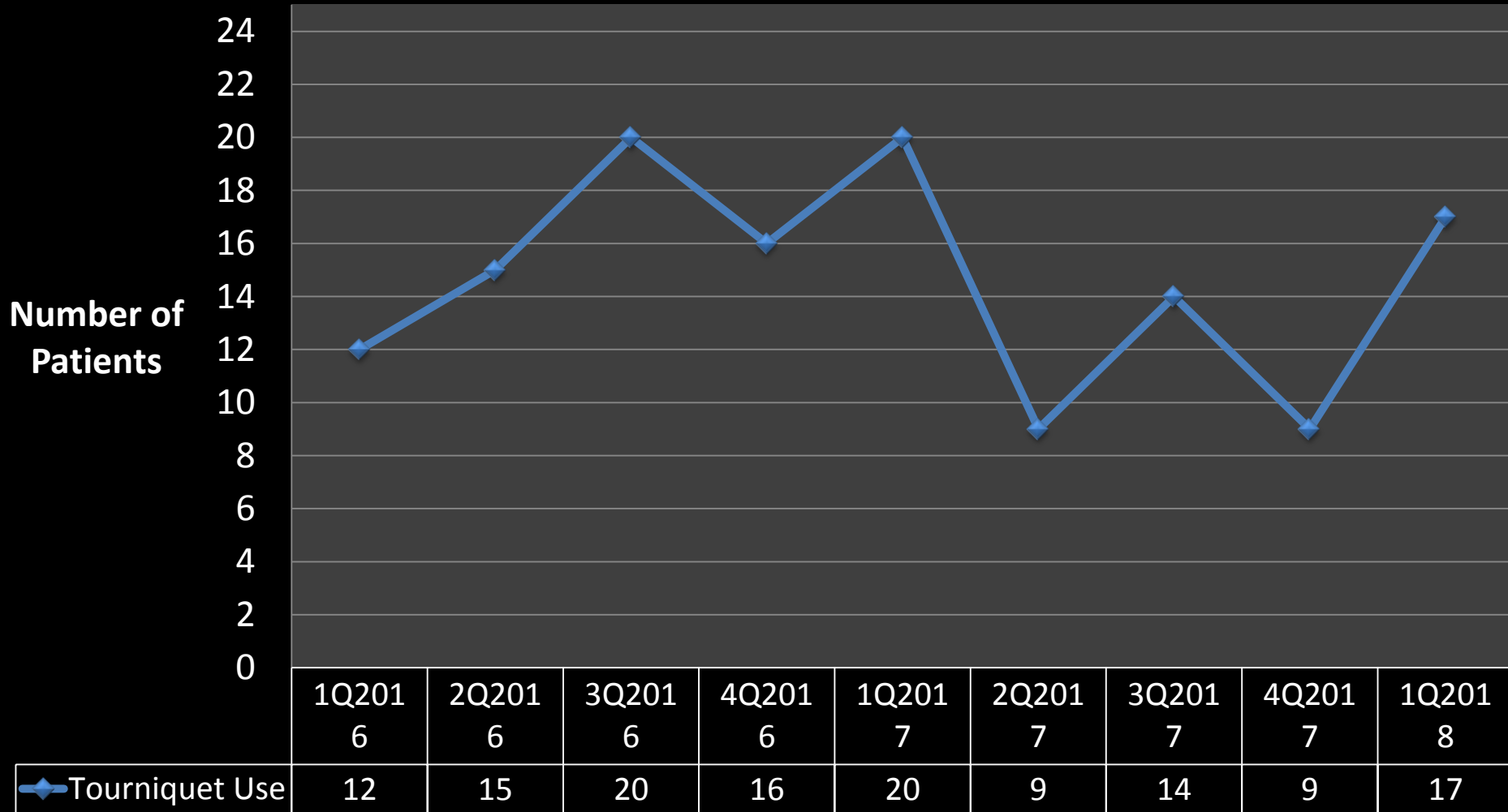


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Wake EMS System Tourniquet Use



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Cardiac Arrest

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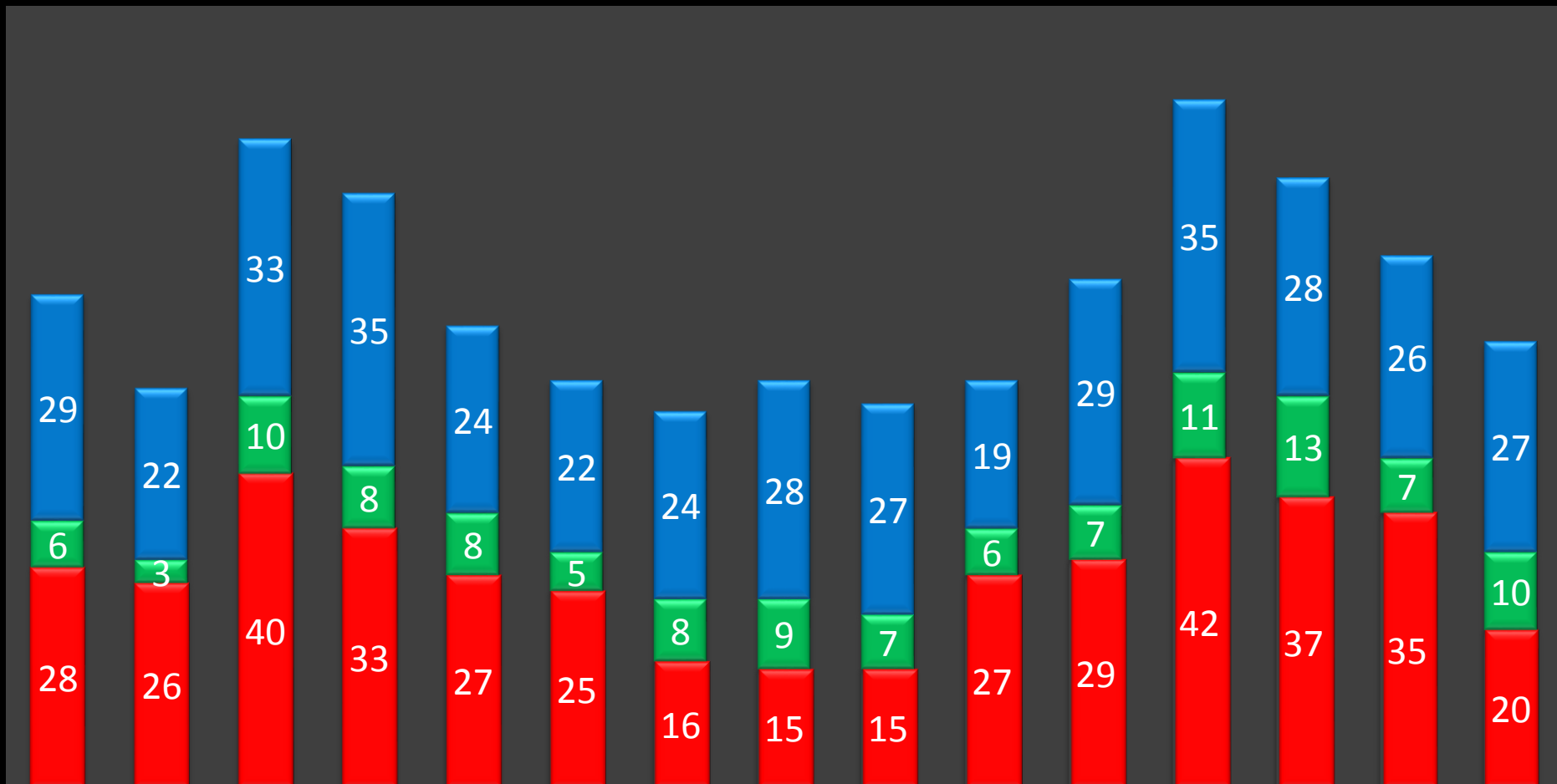


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Wake EMS Worked Cardiac Arrest

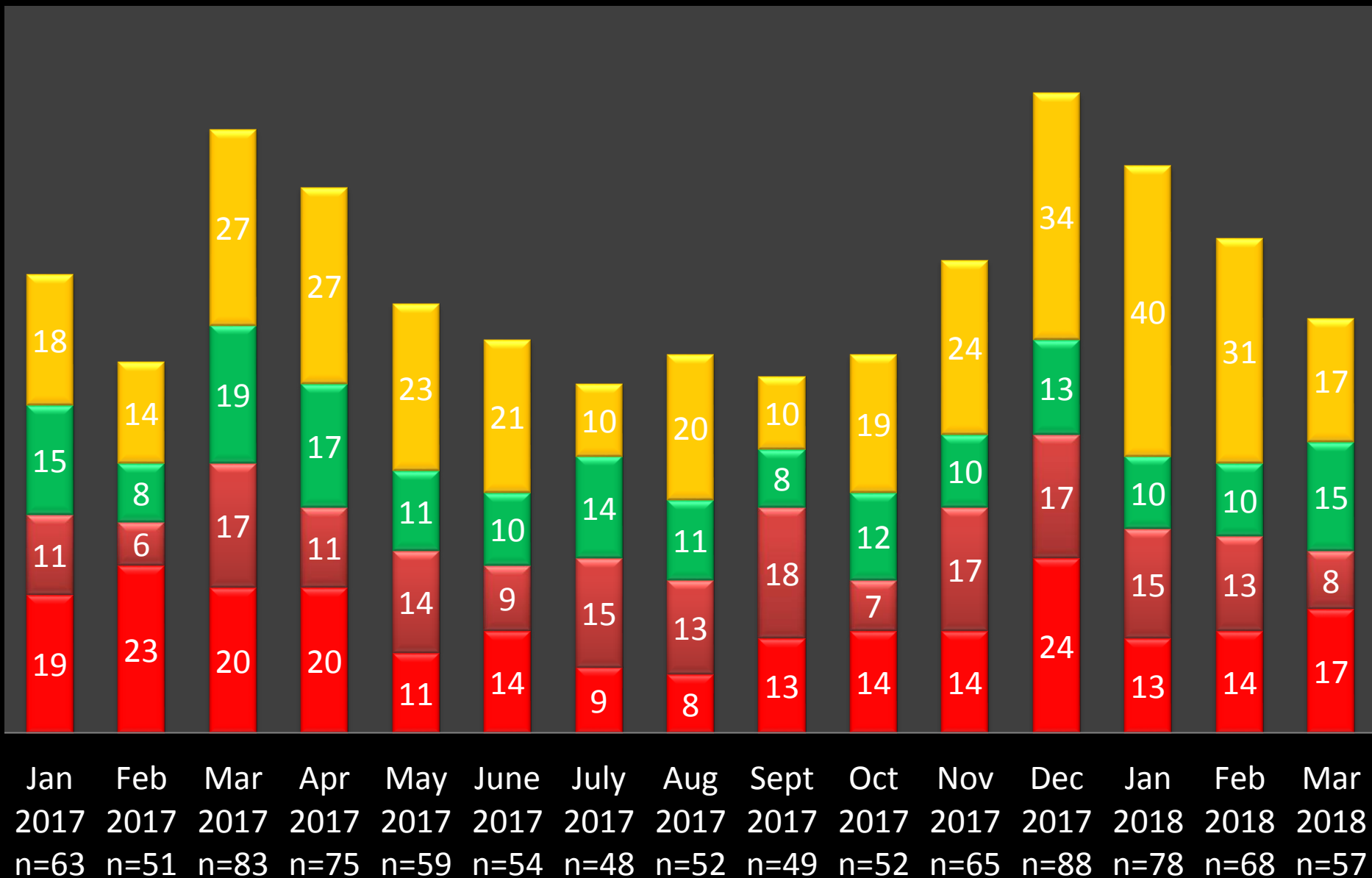
- Resuscitation Ceased in the Field
- Transport to Hospital with no ROSC
- Transport to Hospital with ROSC



Jan 2017 n=63 Feb 2017 n=51 Mar 2017 n=83 Apr 2017 n=76 May 2017 n=59 June 2017 n=52 July 2017 n=48 Aug 2017 n=52 Sept 2017 n=49 Oct 2017 n=52 Nov 2017 n=65 Dec 2017 n=88 Jan 2018 n=78 Feb 2018 n=68 Mar 2018 n=57

Cardiac Arrest Initial Rhythm

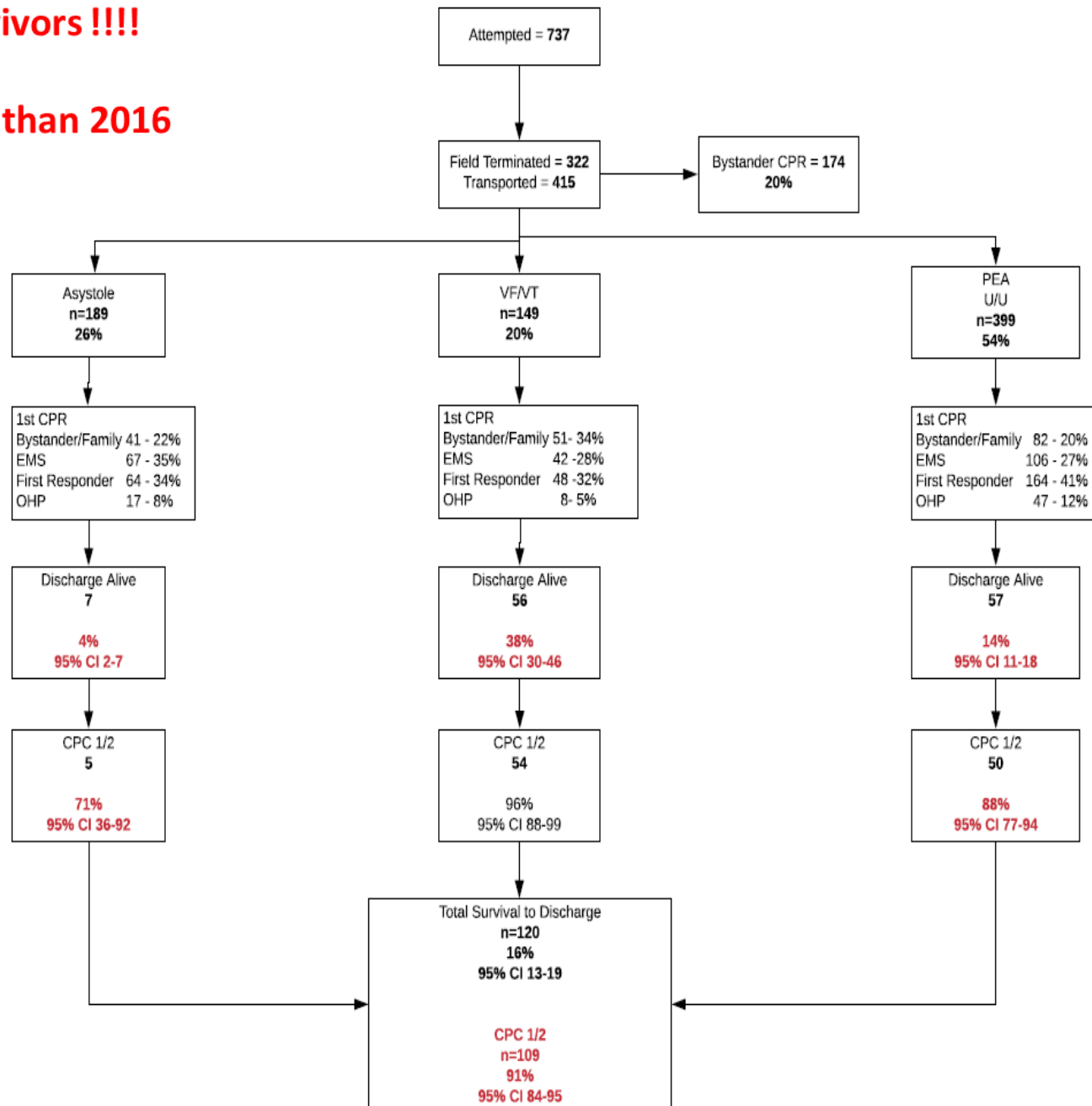
■ Aystole ■ PEA ■ VF/VT ■ Unknown Unshockable



2017 Wake EMS System Cardiac Arrest Outcomes

120 Survivors !!!!

30 more than 2016



Cardiac Arrest Survival CARES Statistics

	Wake County EMS System N=691	North Carolina N=5439	National N=76215
Utstein ¹ Survival (%)	↑ N=74 43.2%	↑ N=685 33.7%	↓ N=8380 32.6%
Utstein Bystander ² Survival (%)	N=40 50.0%	N=391 39.1%	N=4935 36.5%

Utstein survival is a way to compare the patients most likely to survive across communities. These are patients who have a witnessed cardiac arrest and need defibrillation.

Respiratory Distress

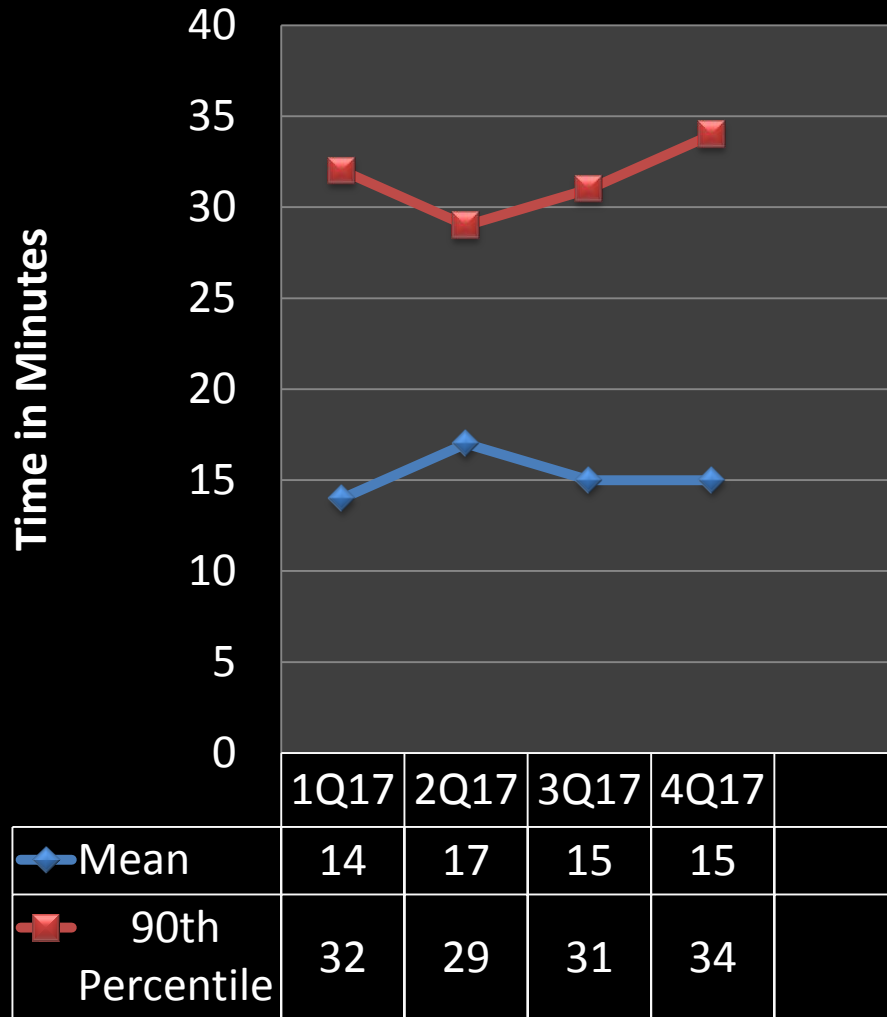
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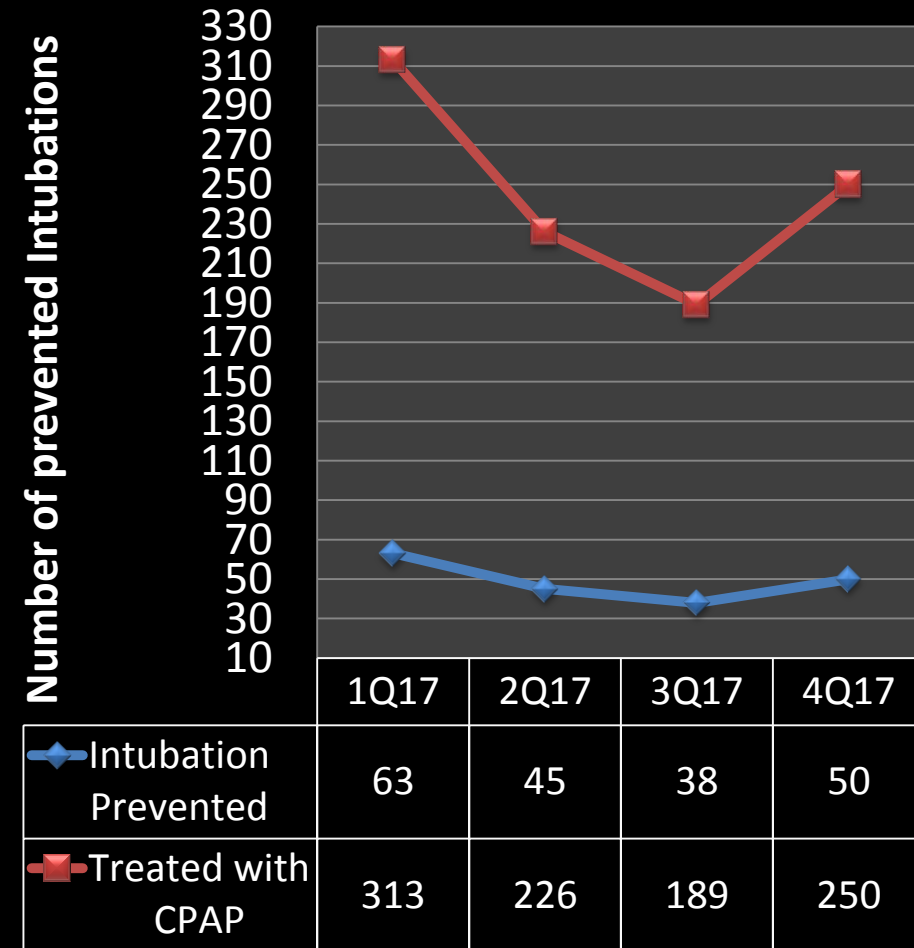
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Wake EMS System CPAP Application Time



Wake EMS System Intubation Prevented with CPAP

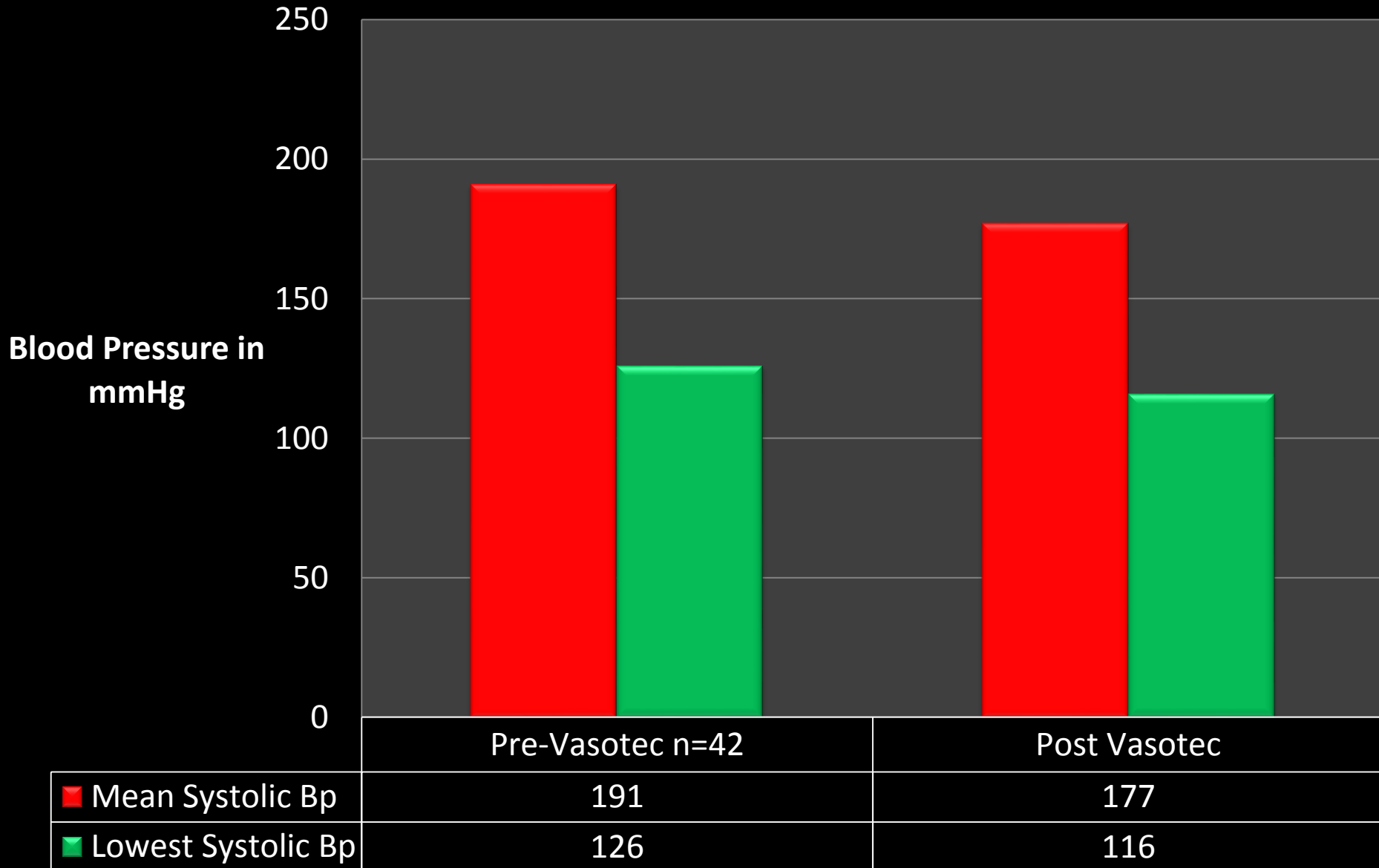


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Wake EMS Patients who received Vasotec for CHF; Pre/Post Systolic Blood Pressure 3rd Qtr 2017



Wake EMS Cases of Low Systolic Blood Pressure Post Vasotec Administration 1st Qtr 2017

- Vasotec was given to **71** patients
- There were **(0)** case(s) where post administration blood pressure as less than **90**

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Miscellaneous Reports

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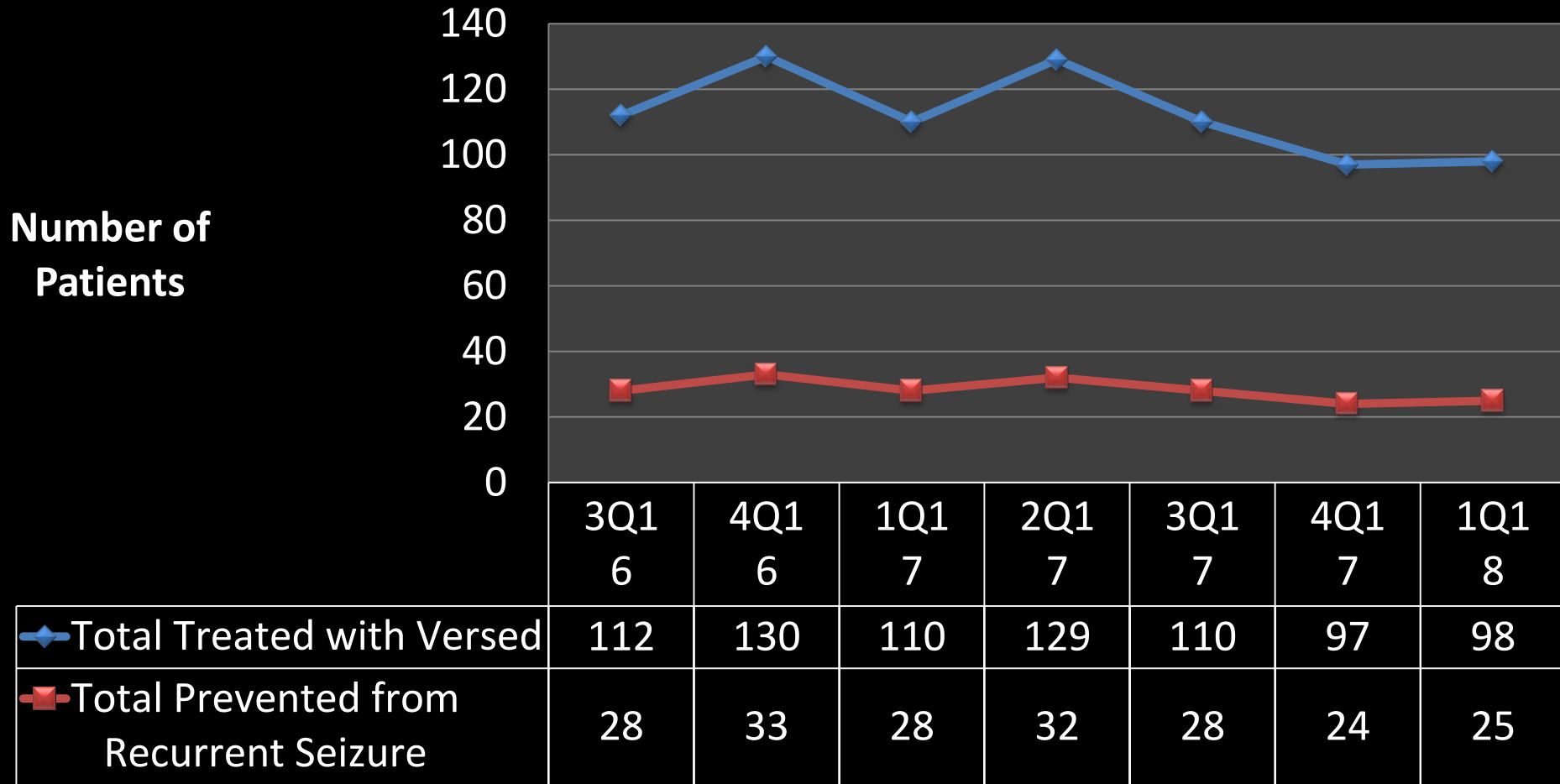


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Wake EMS System

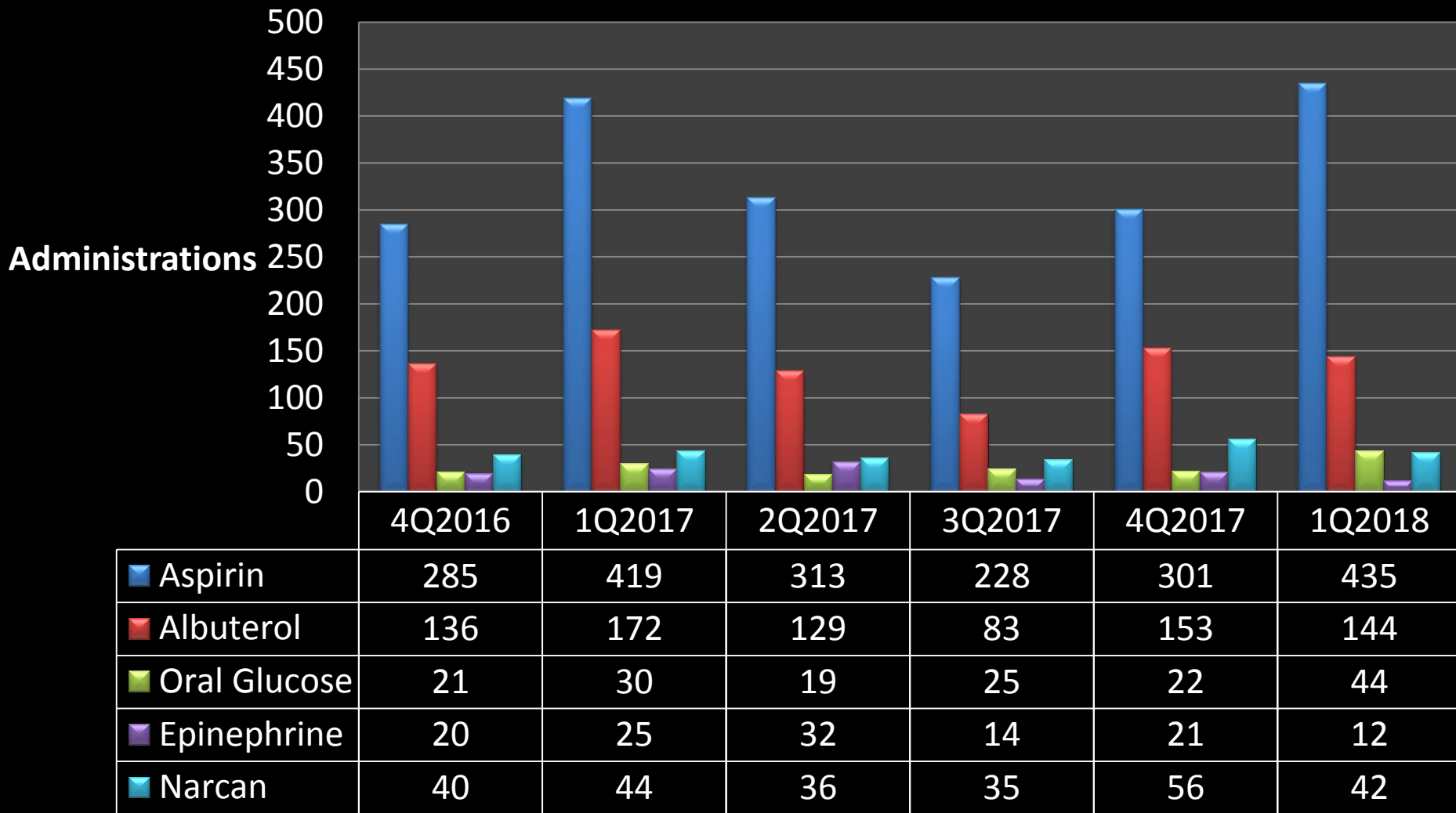
Seizure Patients Treated with Versed



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Medications Administered by First Responders – Derived from EMS Documentation



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Psychiatric and OD calls not evaluated by APP 1st Qtr 2018

- 1205 Overdose and Psychiatric calls
- 1103 Had an APP dispatched
- 722 Had an APP arrive and evaluate the patient

NOTE: There were 381 calls where the APP did not arrive on-scene. Multiple reasons exist for this, evaluation is ongoing.

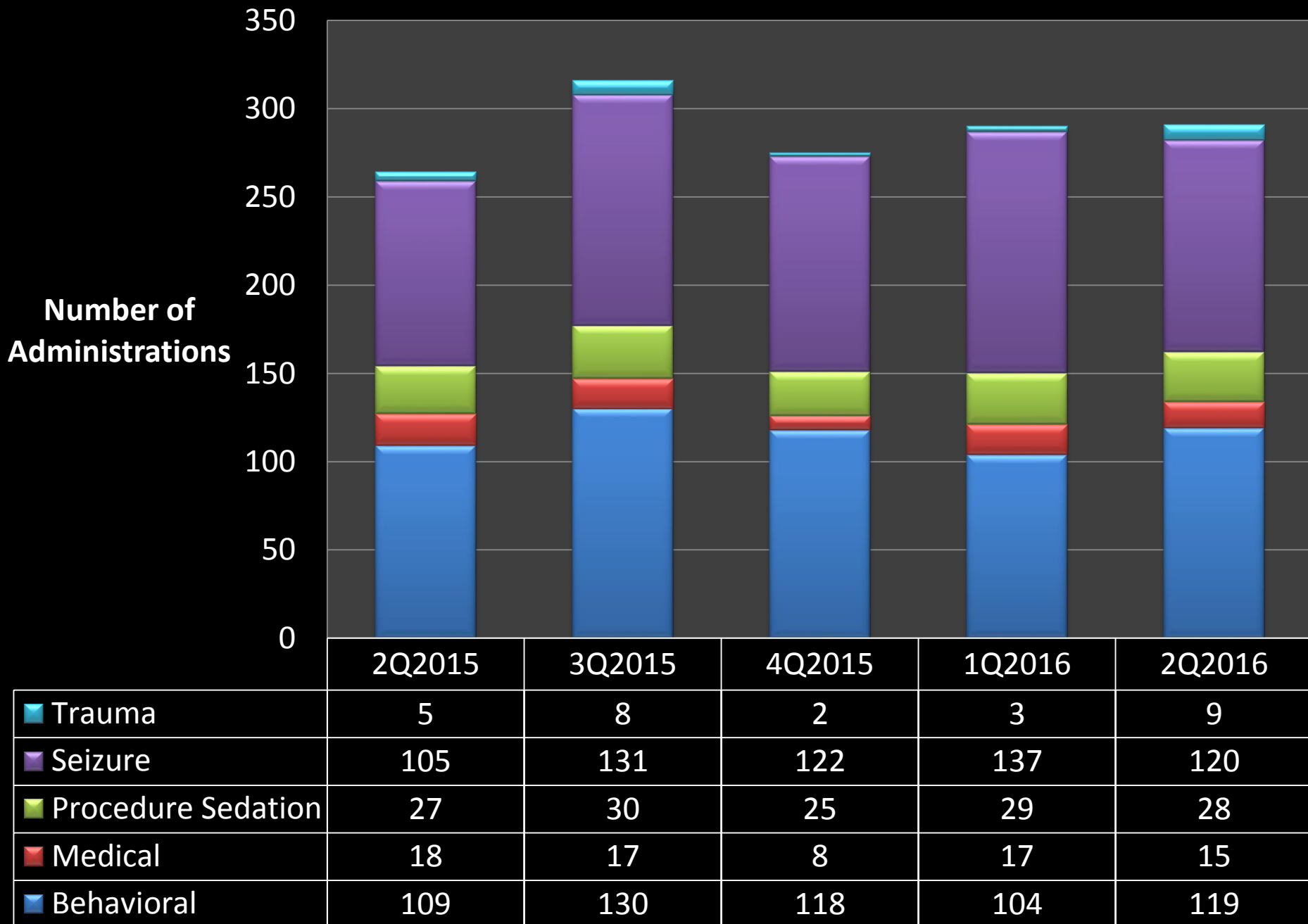
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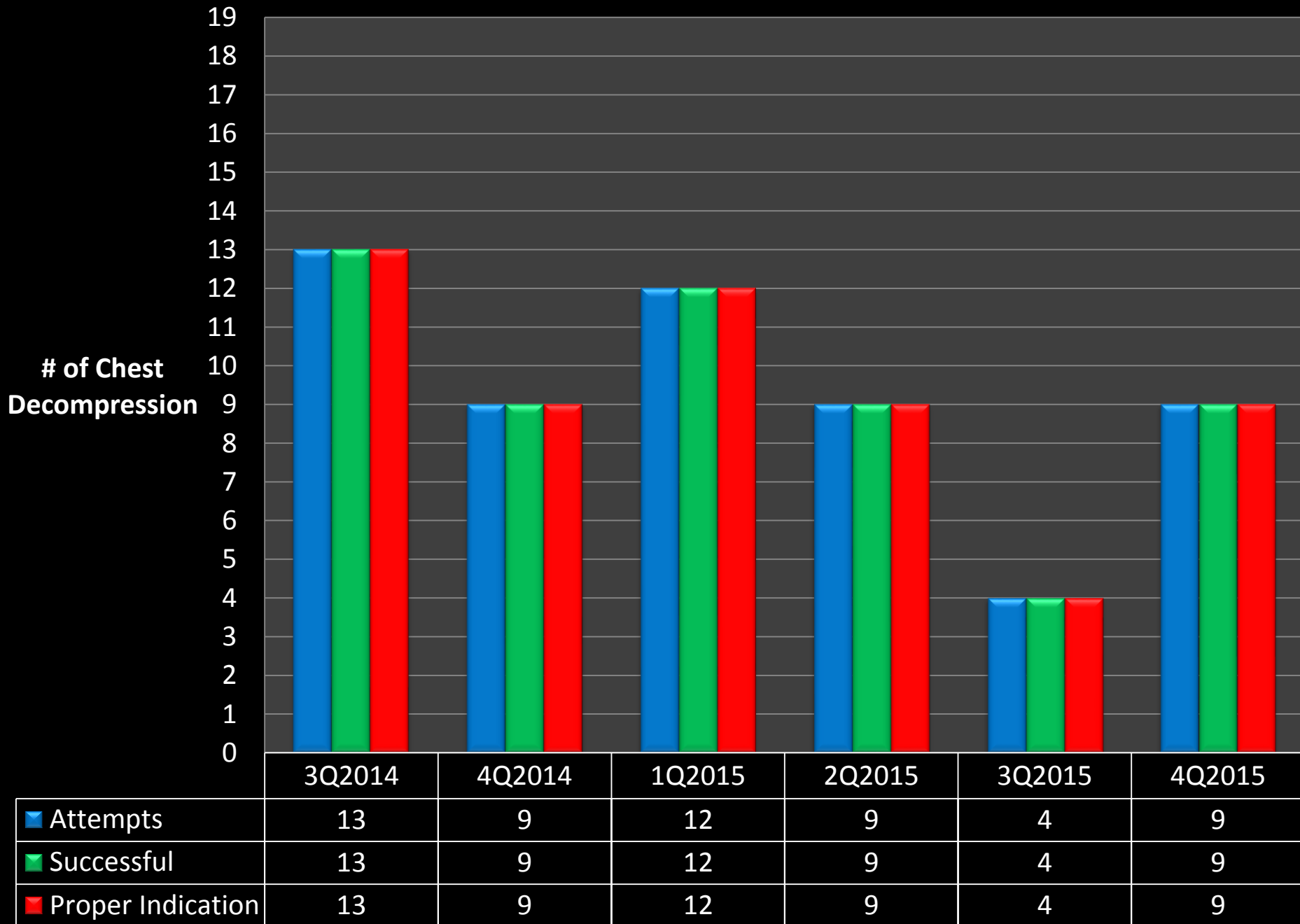
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Indications for Versed Administrations



Chest Decompressions

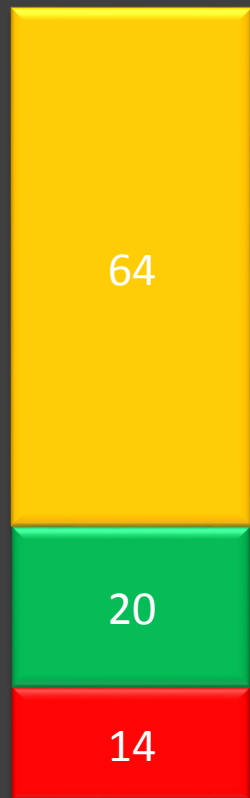


Reason for OMD Contact

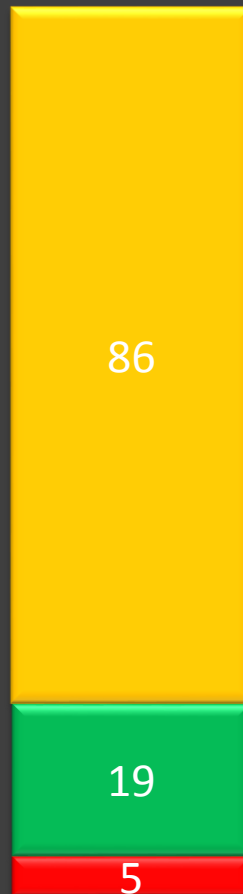
■ Automatic Notification

■ Medical Control Order

■ Unusual Event



1st Qtr 2017



2nd Qtr 2017



3rd Qtr 2017



4th Qtr 2017

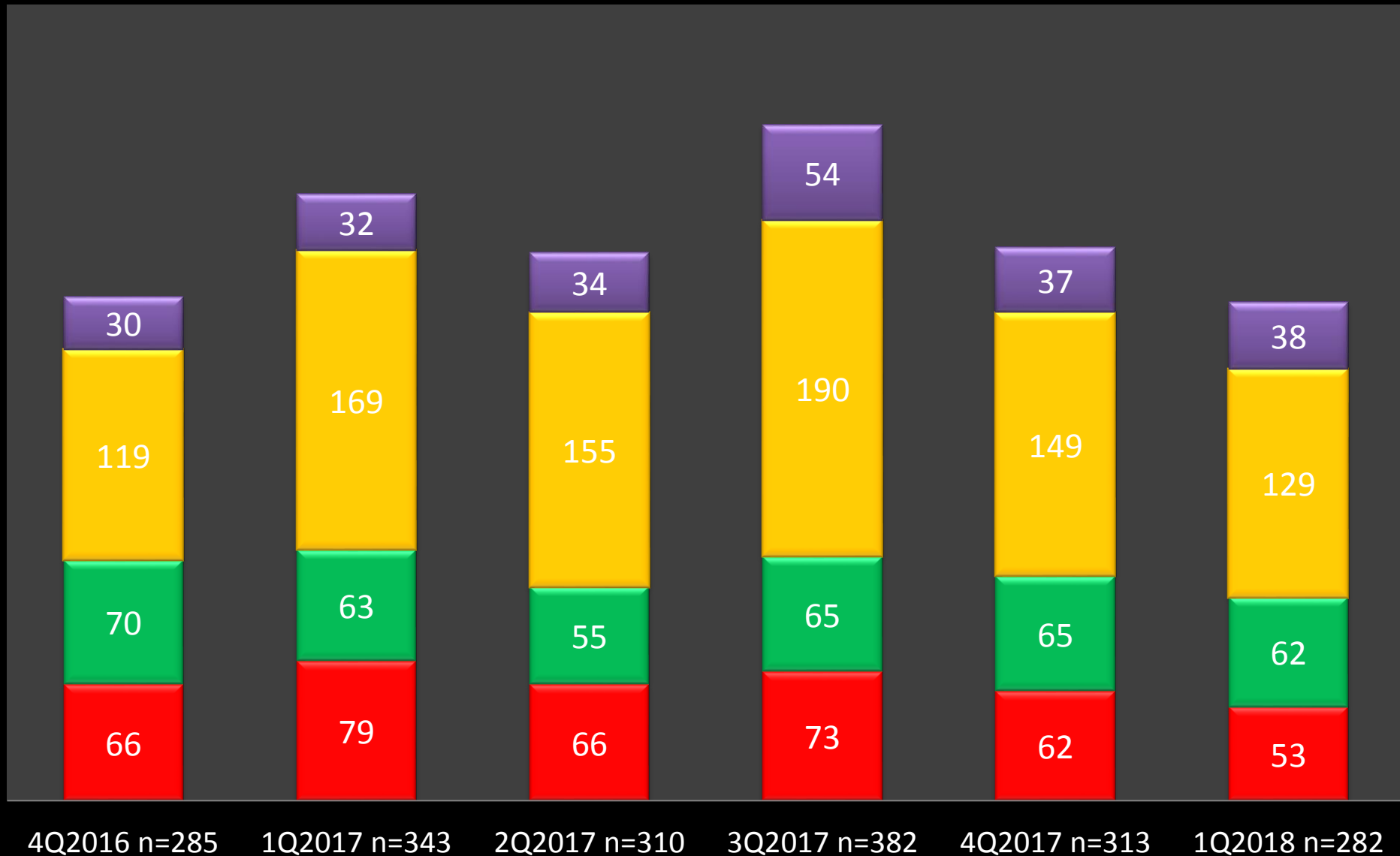
APP Alternate Destination

■ No Transport

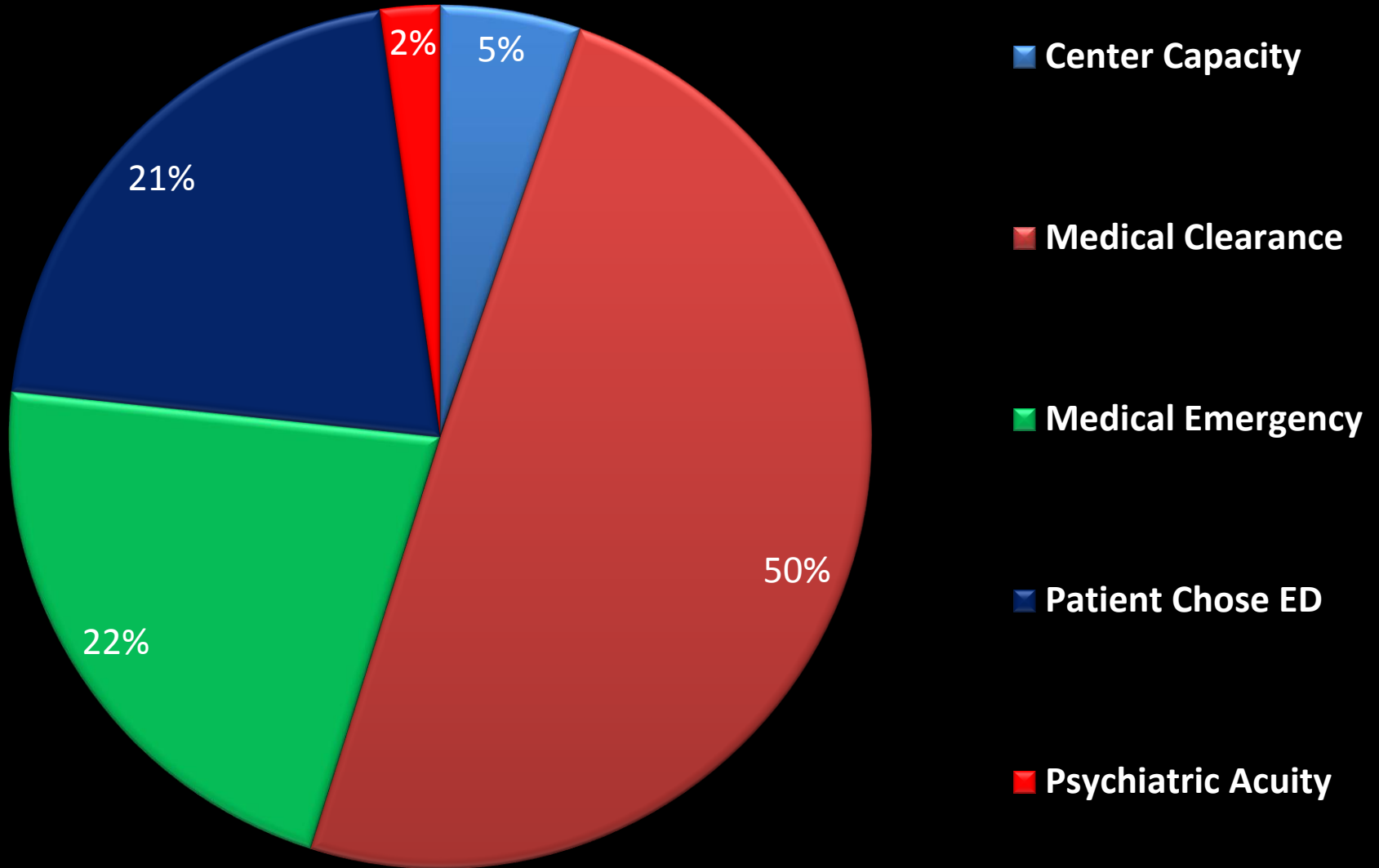
■ Transport to Alternative Location

■ Transport to ED

■ Transported to Psychiatric Hospital

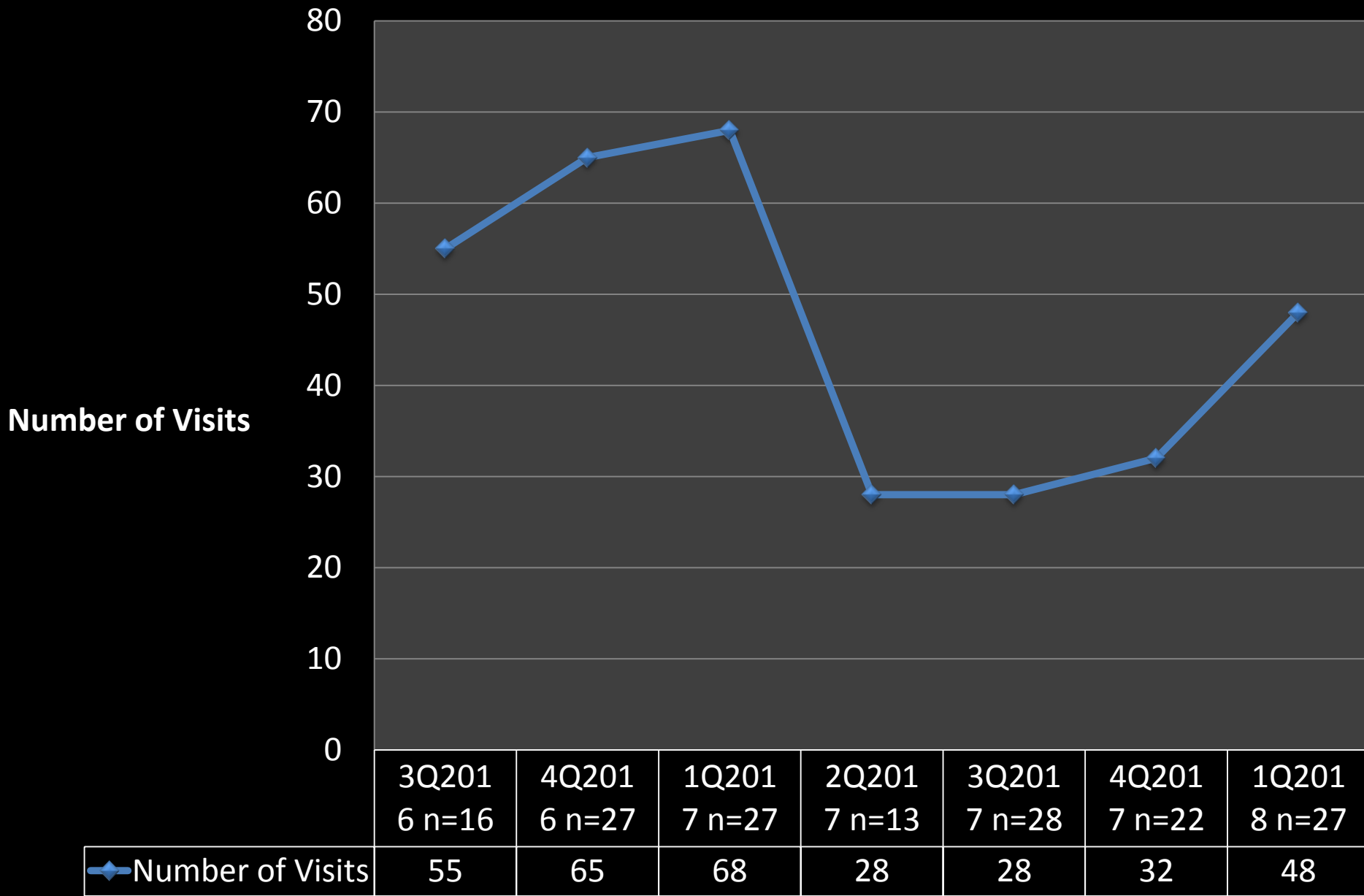


1st Quarter 2018 Alternate Destination Reason for ED Transport



Wake EMS System

APP Home Visits with CCWJC CHF Program



Care Plans

1st Qtr 2016

- 63 patients have subsequent destination plans

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