

Wake EMS System Peer Review Clinical Data 2nd Quarter 2020



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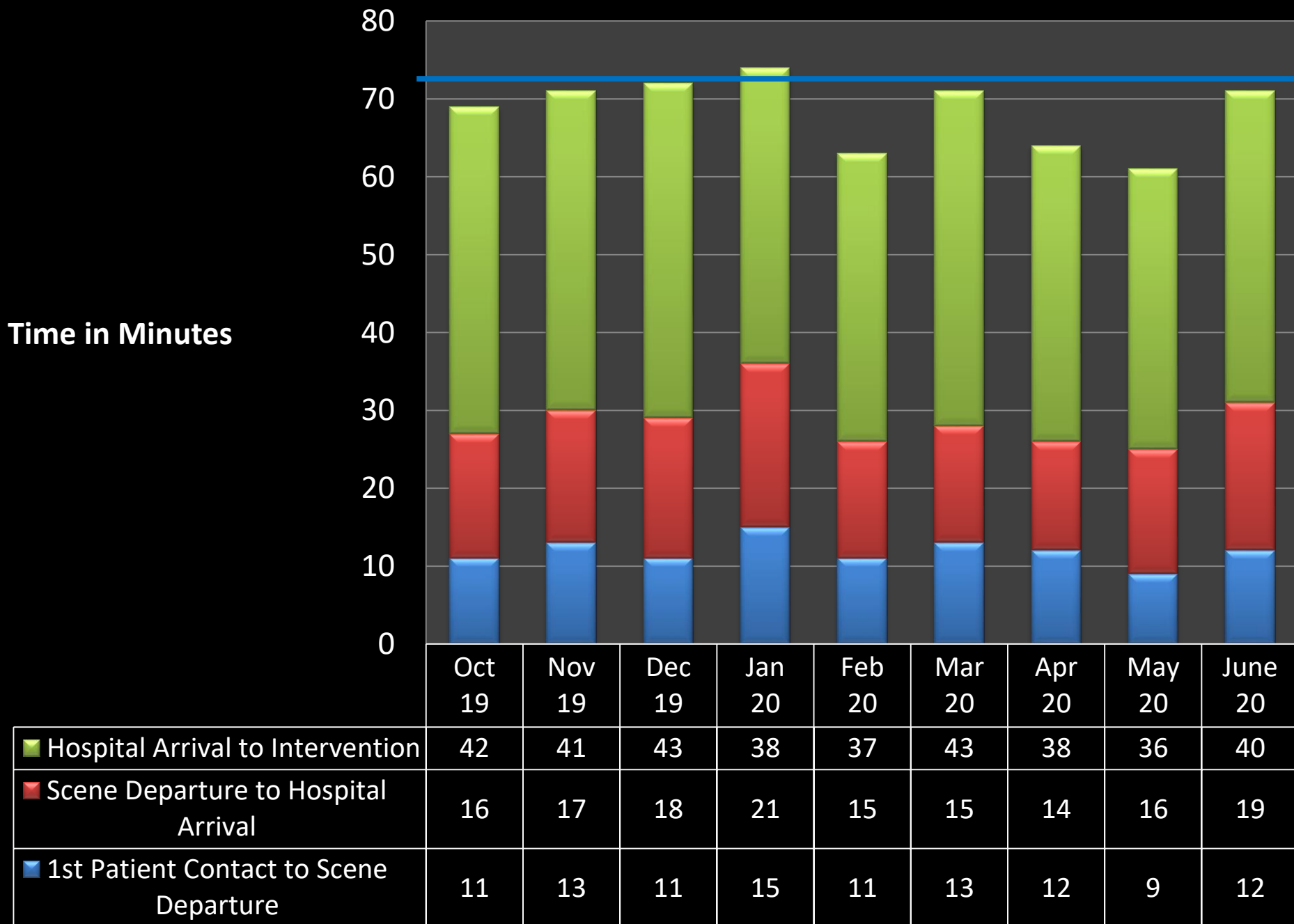
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STEMI

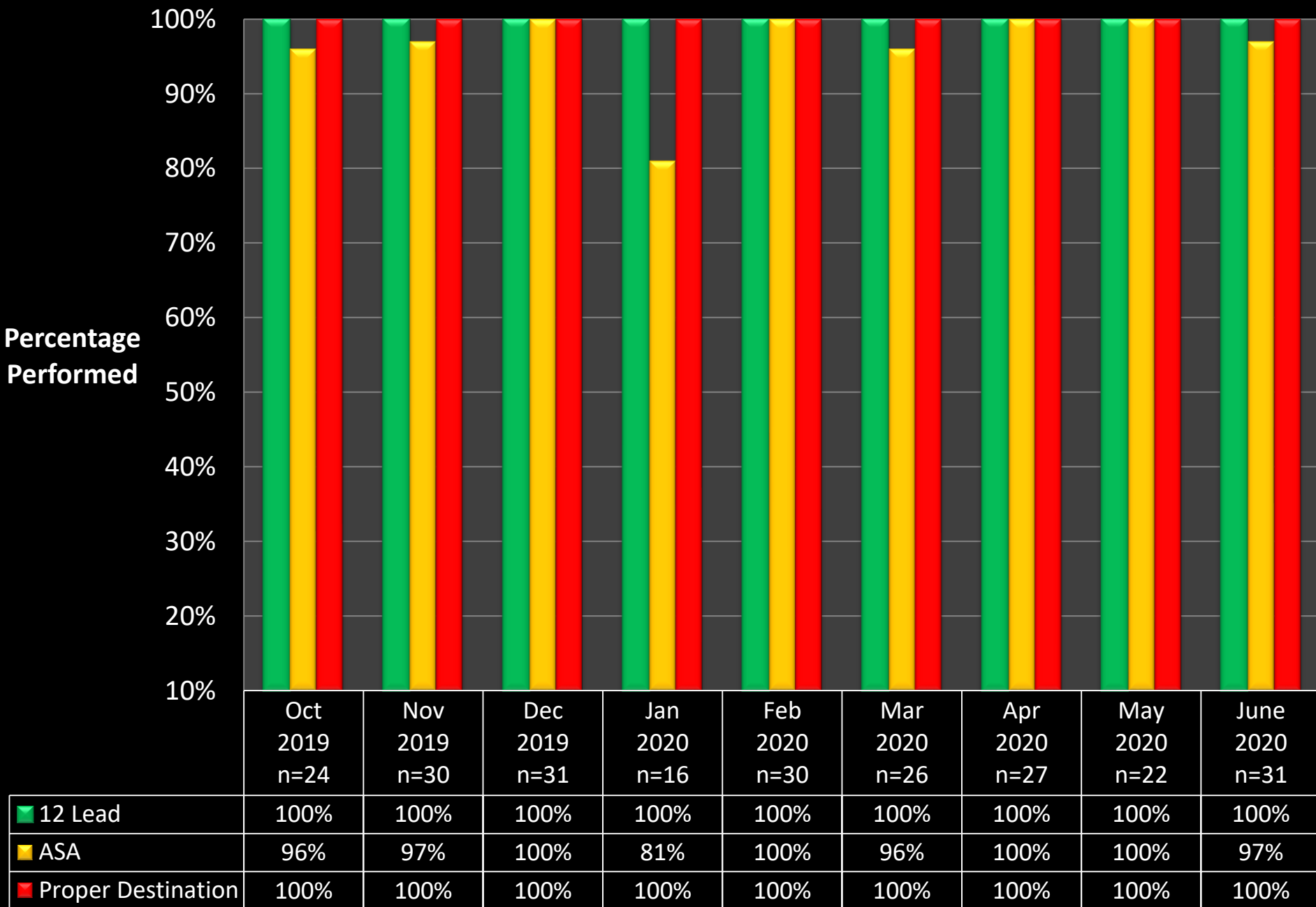


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Compassionate
Clinically Excellent Care

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



Patients Transported by EMS with Suspected or Confirmed STEMI



STEMI Over Triage

2nd Quarter 2020

Category	Total From Hospitals	Final Disposition = Triage Correctly	Final Disposition = Over Triage
ED EKG Does Not Meet STEMI Criteria	3	3	0
ST Elevation Resolved	2	2	0
EKG Unchanged from Previous EKG	2	2	0
STEMI Imposter (LVH, J Point Elev., Etc)	6	4	2
2% Over triage Rate	15 That EMS Did Not Call STEMI	5 That EMS Transmitted for Consult Only	

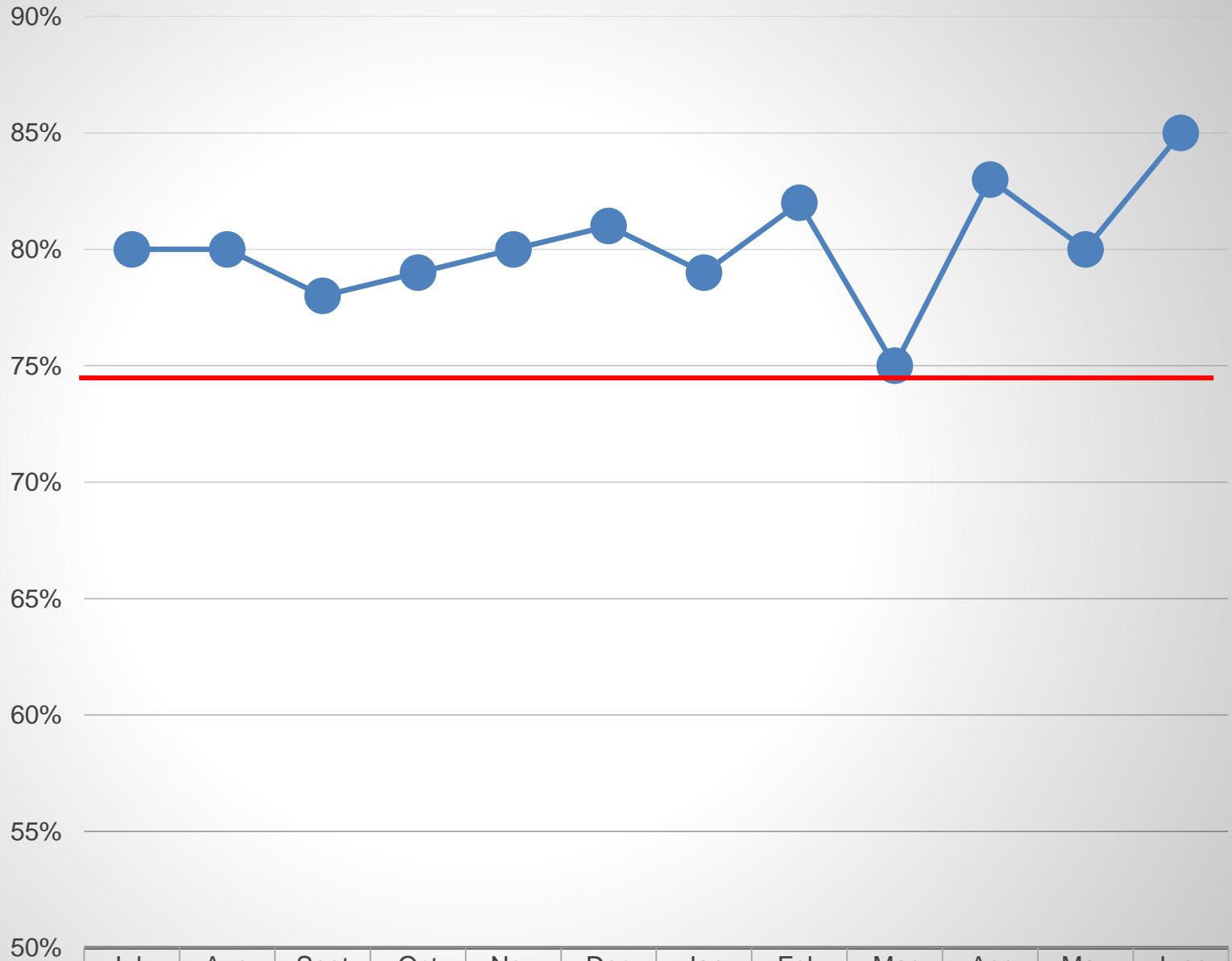
The Wake County EMS System – Prompt, Compassionate, Clinically Excellent

Care



Wake EMS

Chest Pain Patient Age>35 Who Had ASA Administered



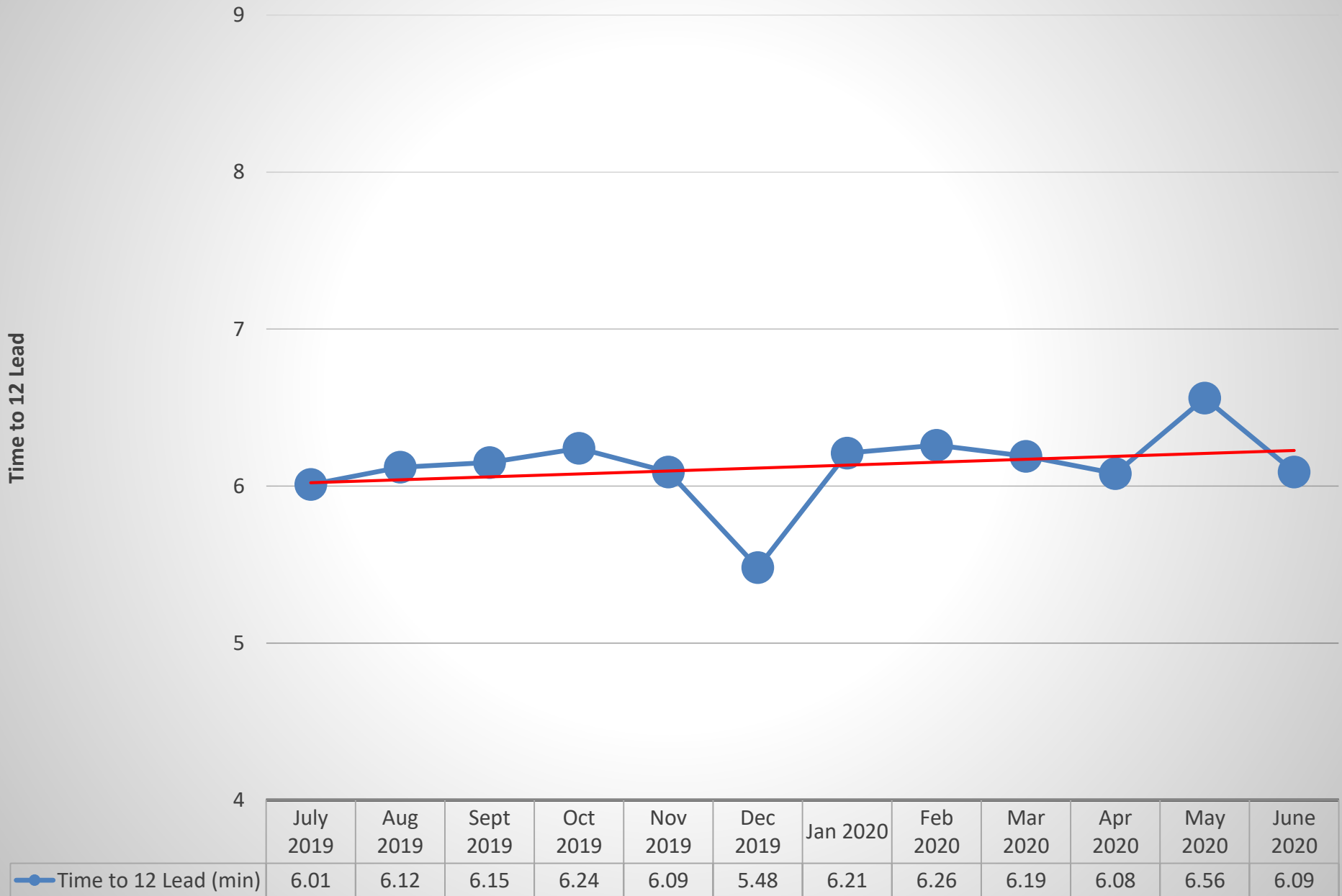
Percent Administered

ASA Administered

July 2019	Aug 2019	Sept 2019	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	June 2020
80%	80%	78%	79%	80%	81%	79%	82%	75%	83%	80%	85%

Wake EMS

Chest Pain Patient Contact to 12lead Time in Minutes



Stroke

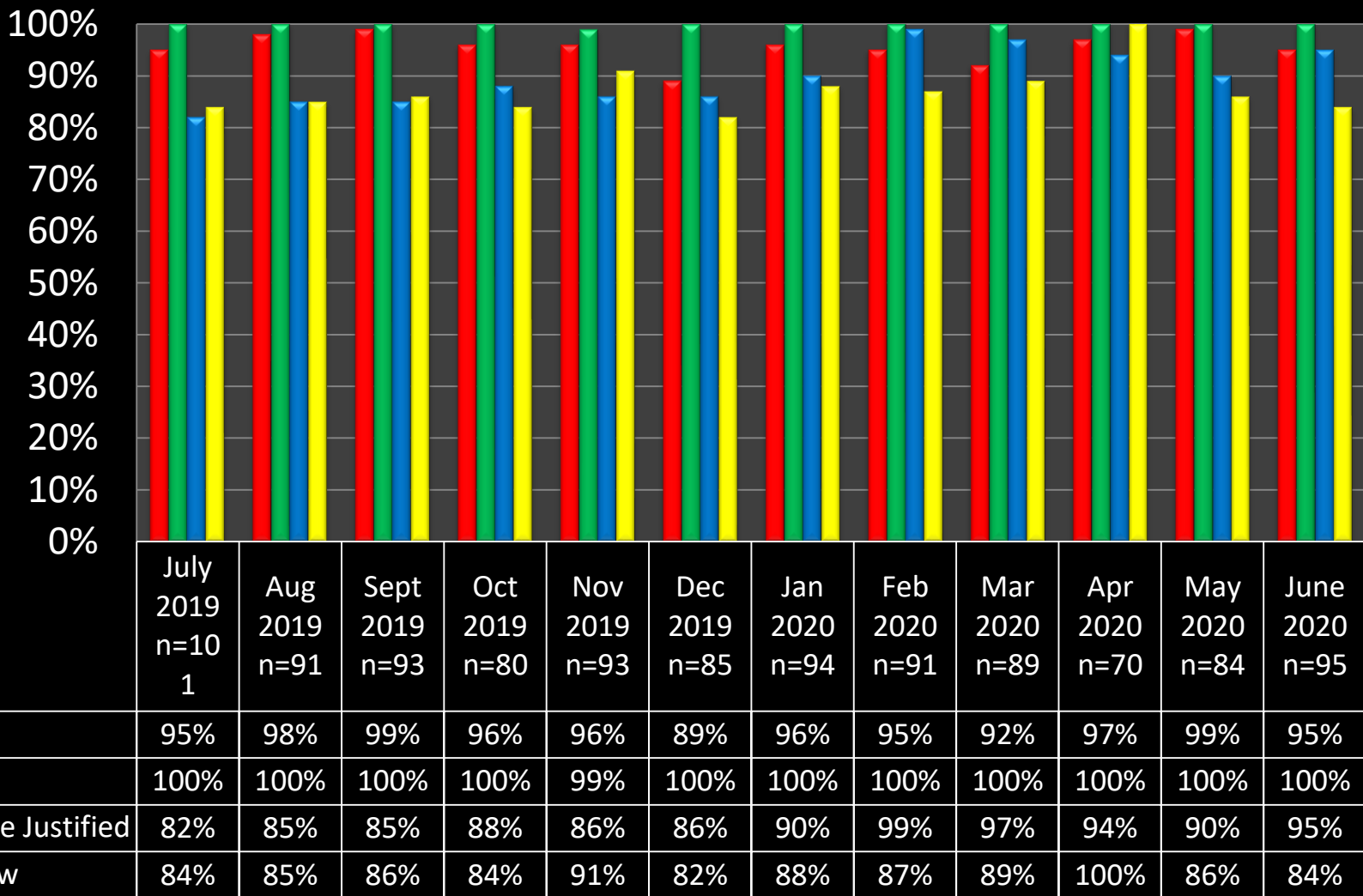


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EMS Stroke Evidence Based Medicine Measures

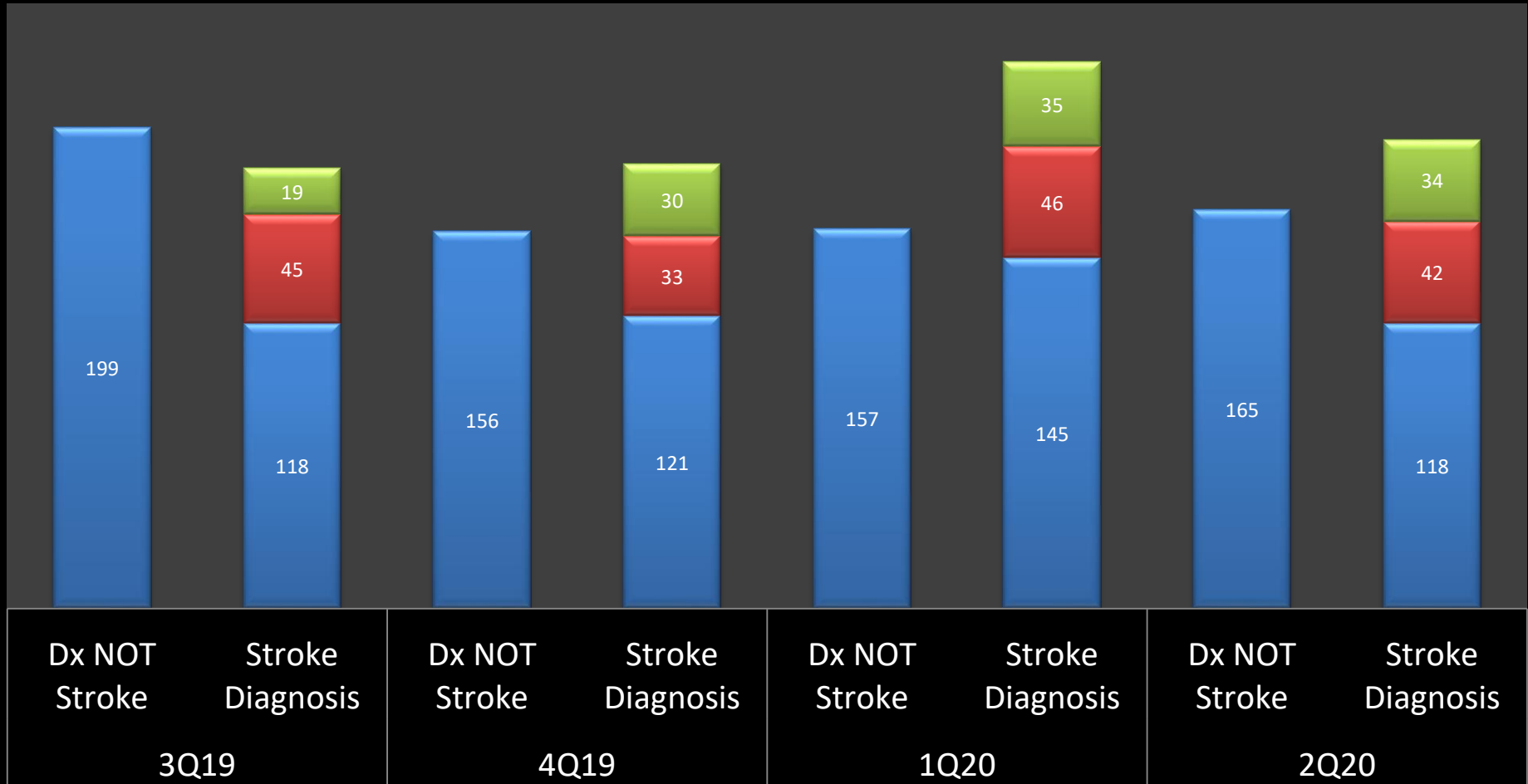
Patients Transported by EMS with Suspected or Confirmed Stroke

Percentage
Performed



Code Strokes by EMS taken to Wake County Hospitals

■ No TPA Given ■ TPA Given ■ ICH



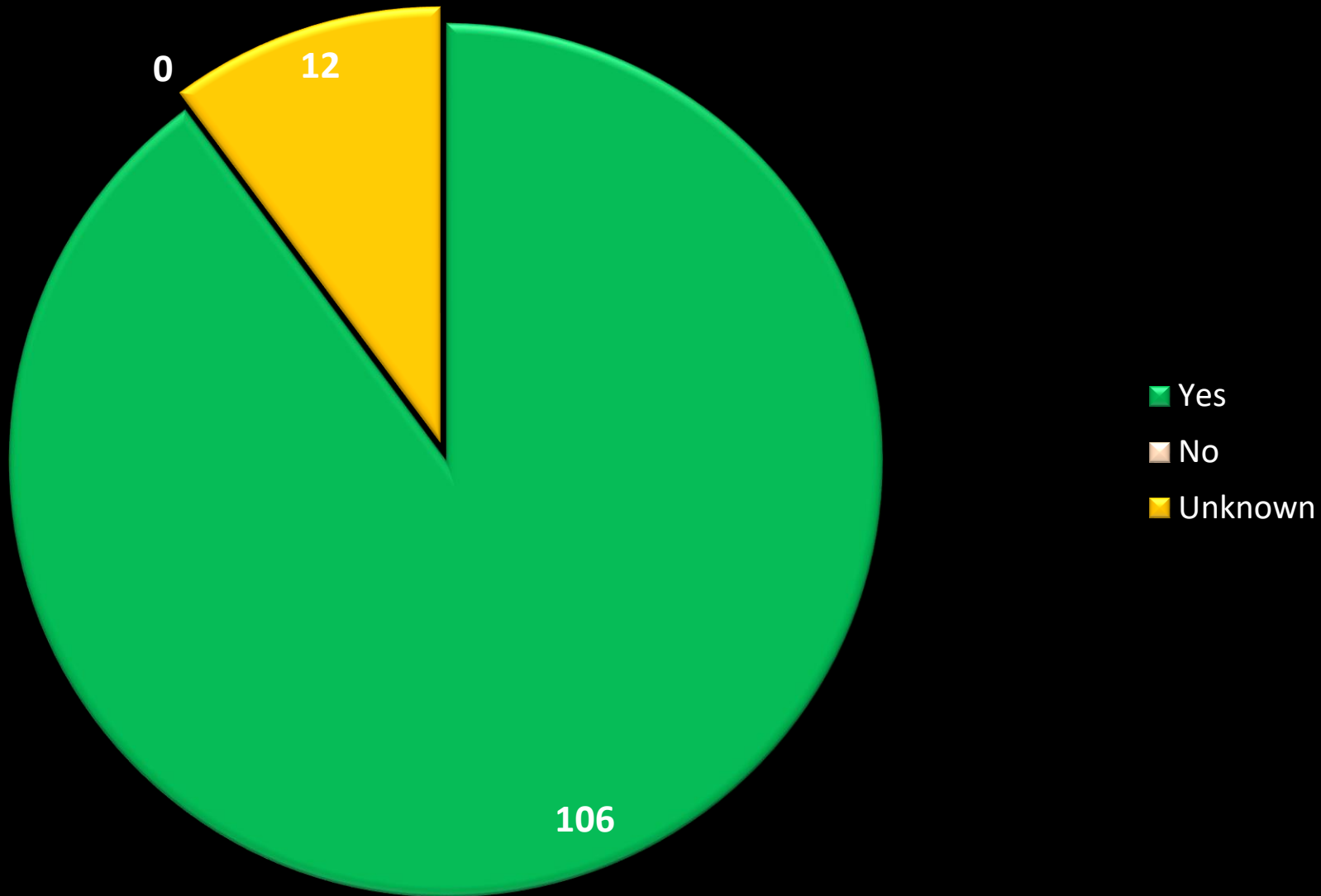
Stroke Intervention

Date	Initial Hospital	2nd Receiving Hospital	Intervention Type	Intervention Performed	Initial ED to Puncture Time	2nd Hospital to Reperfusion Time	TICI	Hospital Stroke Diagnosis
4/8/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	1:42	2:04	2c	Yes
5/8/2020	Rex Healthcare	Rex	IA	No	1:48			Yes
5/23/2020	Duke Raleigh Hospital	Duke Raleigh	tPA-IA	Thrombectomy	1:43	2:46	3	Yes
5/6/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	1:18	1:29	3	Yes
6/5/2020	Rex Healthcare	Rex	IA	Thrombectomy	2:06	3:54	2c	Yes
5/31/2020	North-WakeMed	WakeMed Main	IA	Thrombectomy	2:35	0:26	2b	Yes
4/18/2020	Rex Healthcare	Rex	IA	No	2:32			Yes
5/30/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	1:47	2:22	3	Yes
4/12/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	1:40	3:41	2c	Yes
4/6/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	1:21	1:46	3	Yes
4/9/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	1:15	1:28	3	Yes
4/29/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	1:31	1:48	3	Yes
4/1/2020	WakeMed Main	WakeMed Main	tPA-IA	Thrombectomy	0:47	1:11	2c	Yes
4/18/2020	WakeMed Main	Duke Raleigh	IA	Thrombectomy	3:19	0:58	2b	Yes
4/4/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	1:38	2:10	2b	Yes
6/17/2020	Rex Healthcare	Rex	IA	Thrombectomy	1:13	2:21	2b	Yes
6/26/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	1:23	3:41	2c	Yes
5/12/2020	Rex Healthcare	Rex	IA	No	3:04			Yes

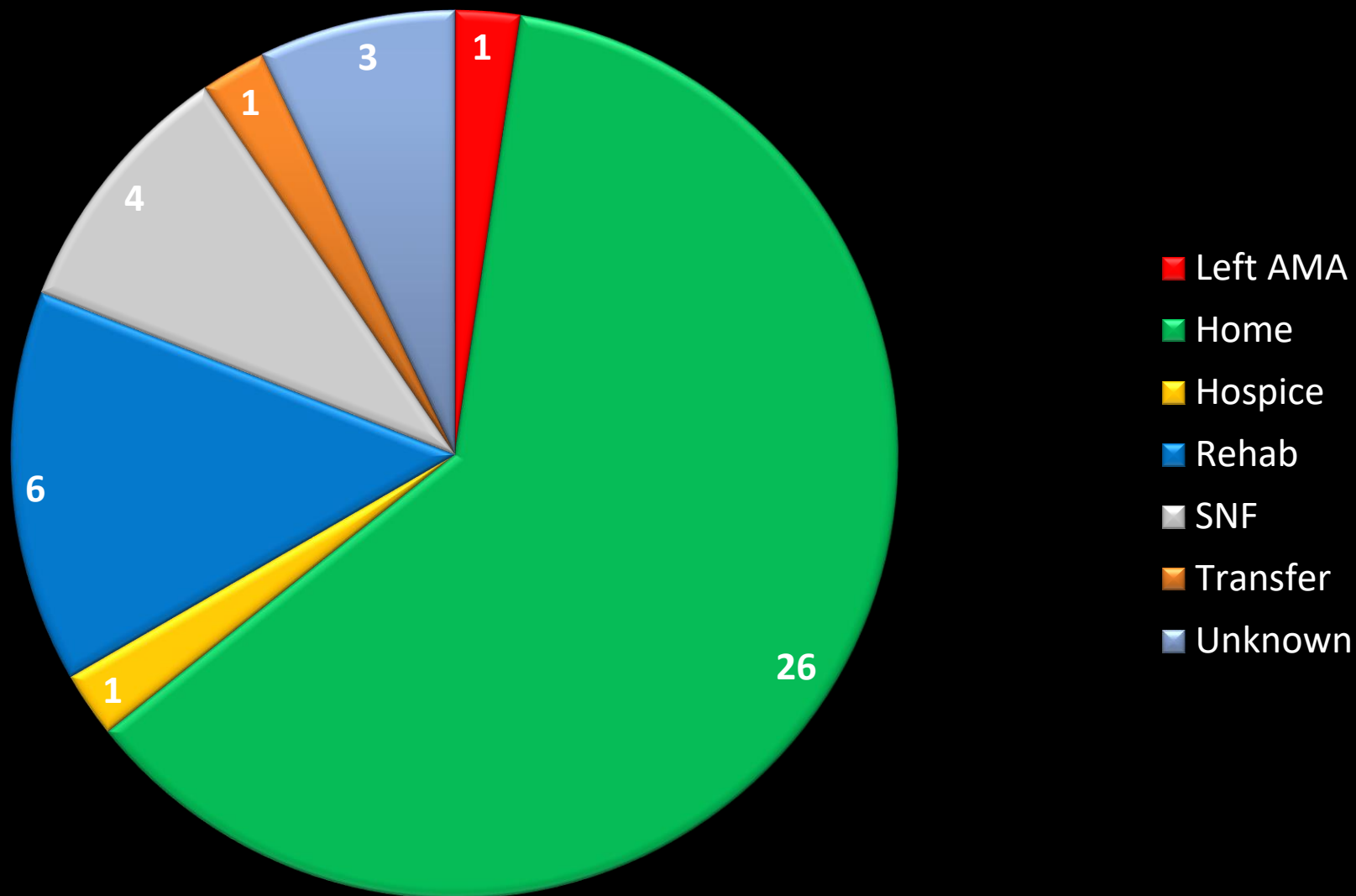


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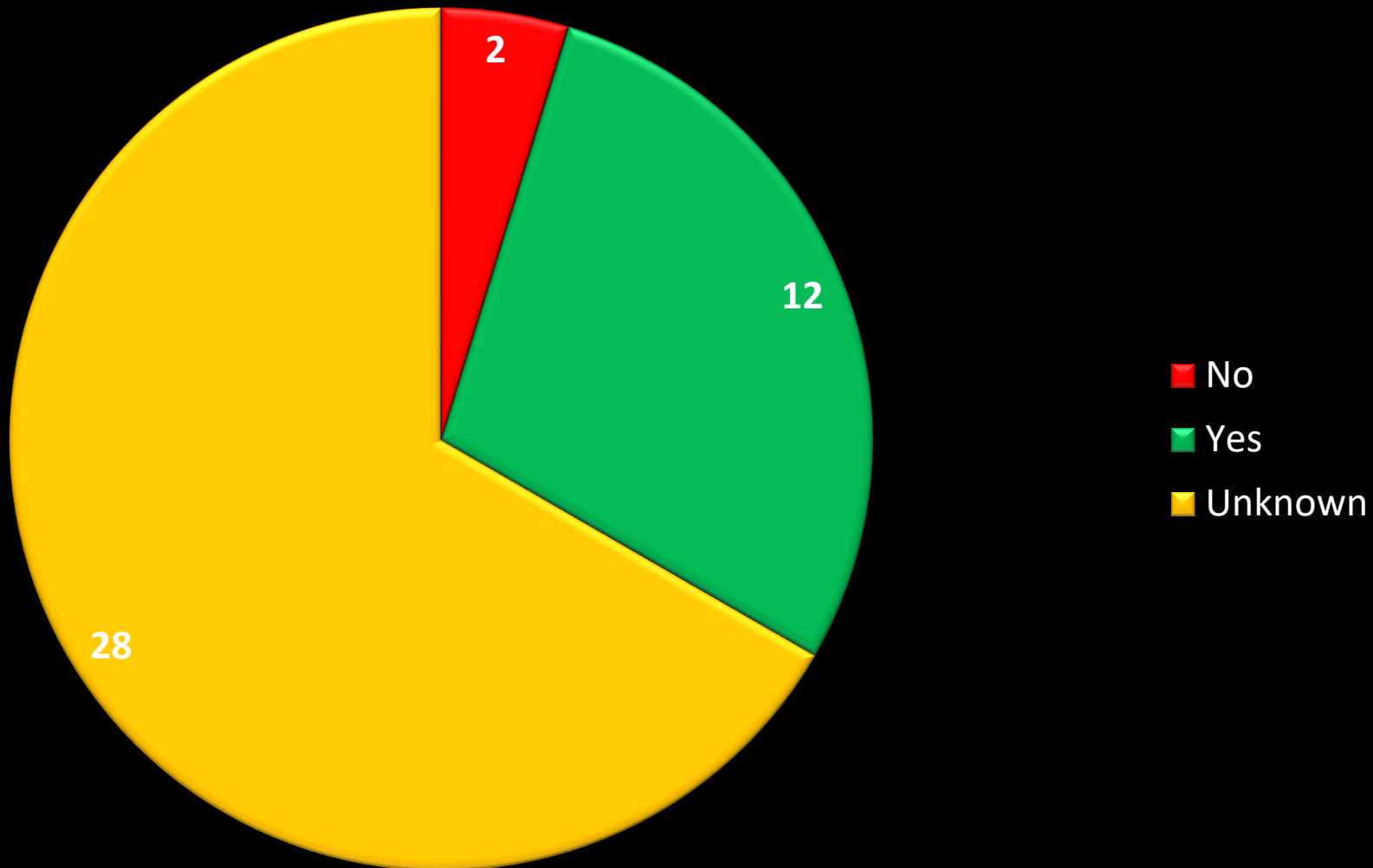
All Hospitals 2nd Qtr 2020
Hospital DCDx Stroke that did not Receive tPA or Intervention



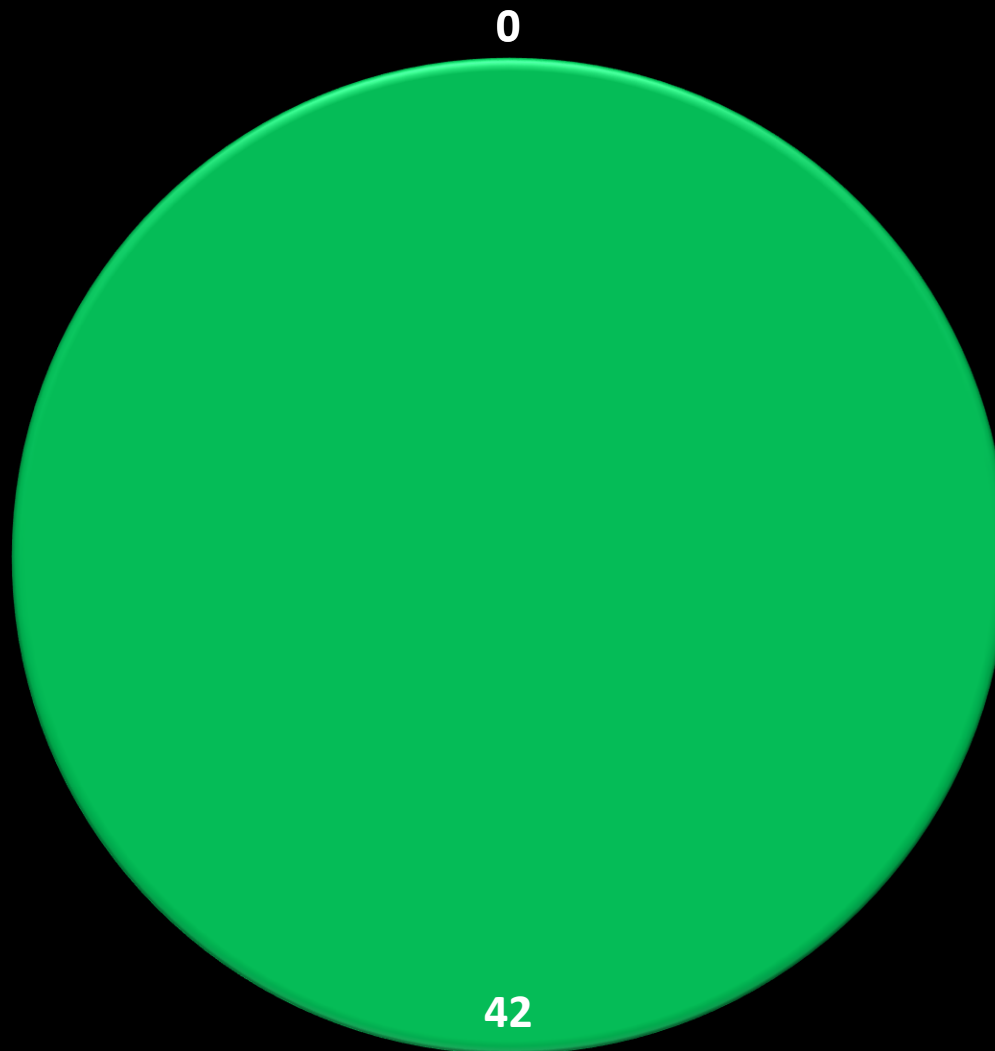
All Hospitals 2nd Qtr 2020
Outcomes for Wake EMS Stroke Patients who Received tPA



All Hospitals 2nd Qtr 2020
Wake EMS Stroke Patients who Received tPA
Symptom Improvement



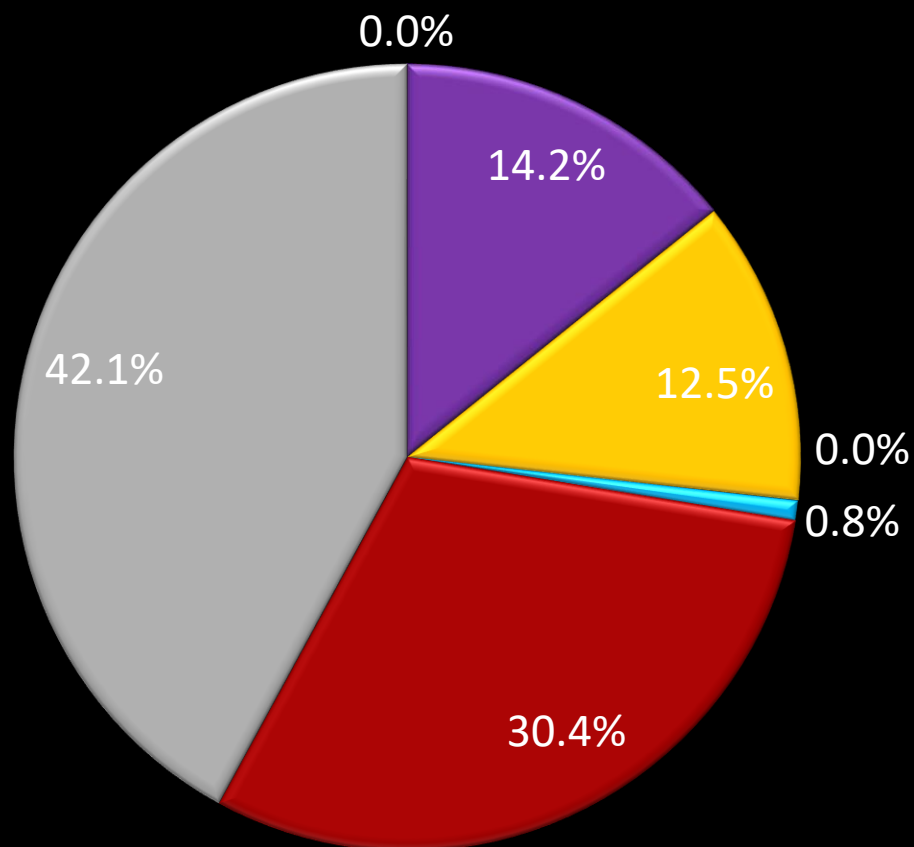
All Hospitals 2nd Qtr 2020
Wake EMS Stroke Patients who Received tPA
ICH Post Administration



- No
- Yes
- Unknown

Destination for Wake EMS Patients with Suspected or Confirmed Stroke 2nd Qtr 2020

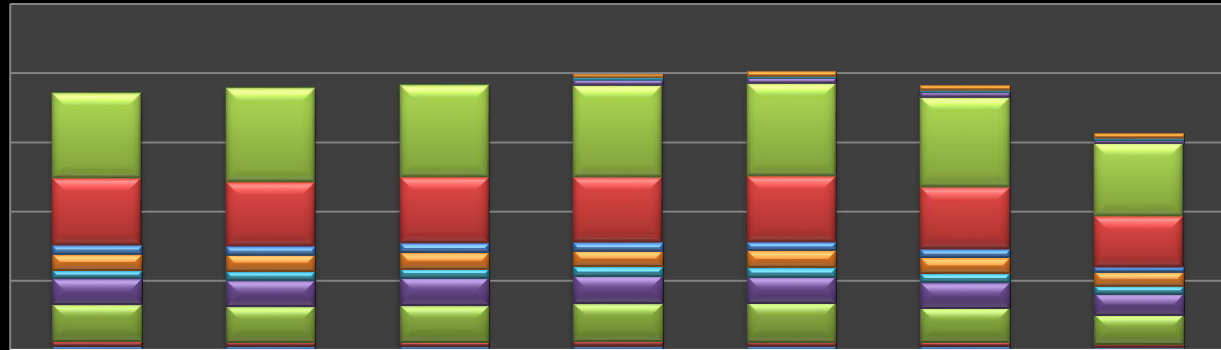
- Brier Creek Healthplex-WakeMed
- Cary-WakeMed
- Duke Raleigh Hospital
- Garner Healthplex-WakeMed
- North-WakeMed
- Rex Healthcare
- WakeMed Main



Number of Transports

Total Transports for the System

25000
20000
15000
10000
5000
0



	4Q18	1Q19	2Q19	3Q19	4Q19		
Out of County				246	319	261	267
UNC				171	140	177	145
Duke Durham				387	413	367	280
WakeMed Main	6157	6765	6653	6633	6731	6500	5288
Rex Healthcare	4855	4649	4724	4745	4735	4514	3639
Pediatric ED WakeMed	621	597	674	574	596	570	343
North- WakeMed	1184	1208	1191	1109	1214	1134	998
Garner Healthplex WakeMed	580	640	636	712	707	658	575
Duke Raleigh Hospital	1838	1859	1994	1968	1867	1826	1524
Cary- WakeMed	2679	2578	2610	2749	2806	2470	2126
Brier Creek Healthplex- WakeMed	360	325	311	335	309	304	192
Apex Healthplex- WakeMed	298	287	324	324	305	303	240

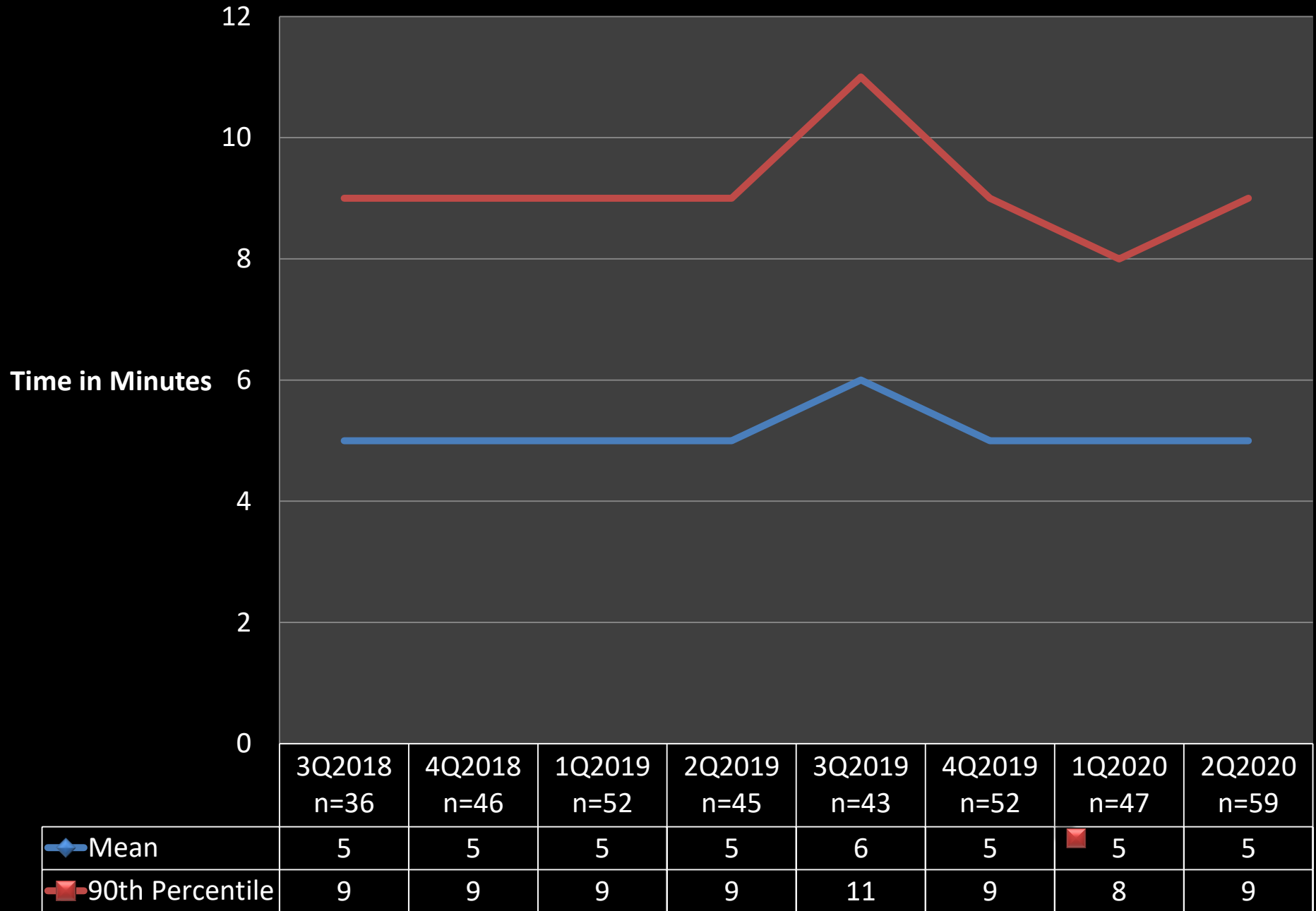
Trauma



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Wake EMS System

Penetrating Trauma Scene Times



Cardiac Arrest



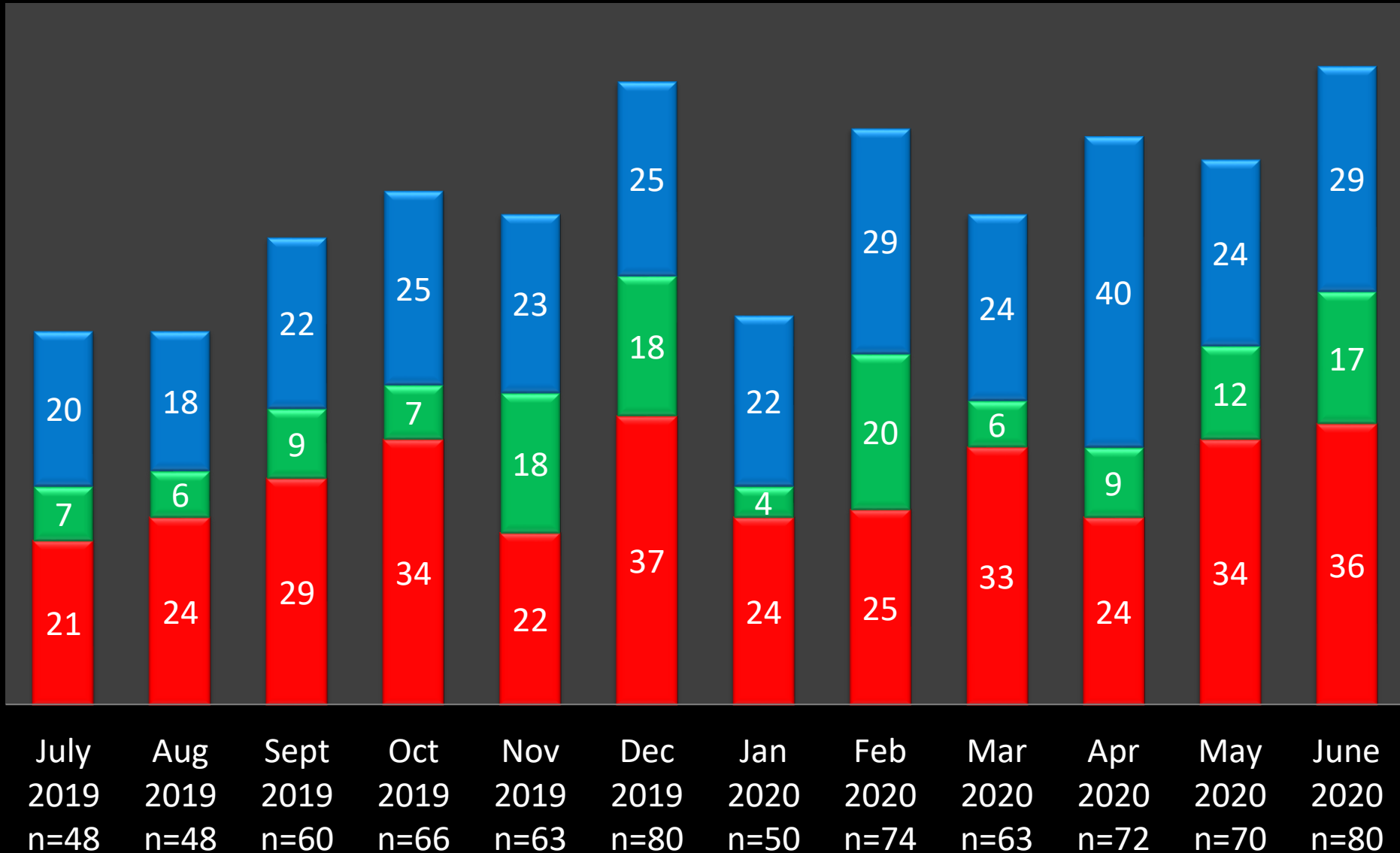
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Wake EMS Worked Cardiac Arrest

■ Resuscitation Ceased in the Field

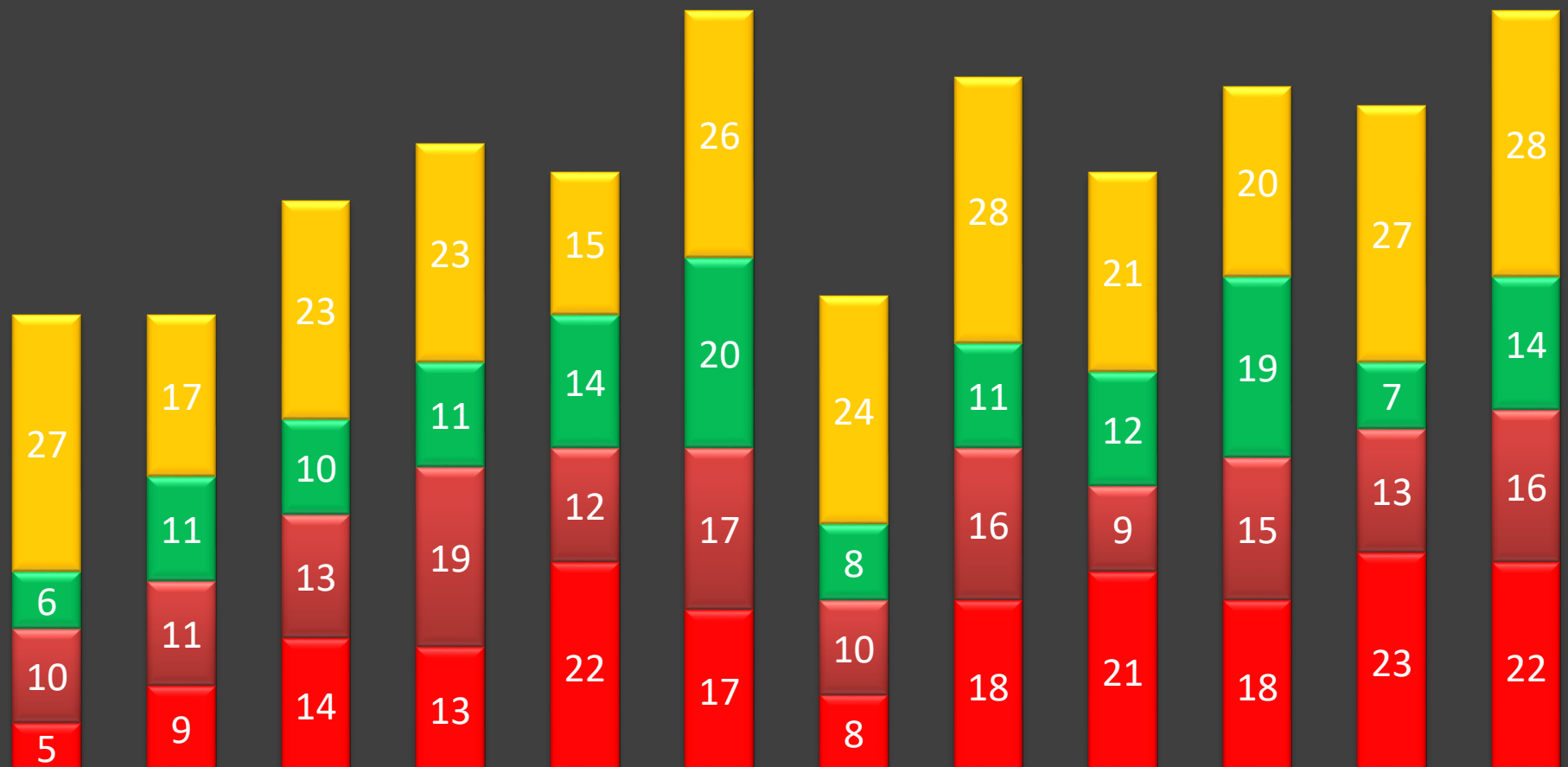
■ Transport to Hospital with no ROSC

■ Transport to Hospital with ROSC



Cardiac Arrest Initial Rhythm

■ Aystole ■ PEA ■ VF/VT ■ Unknown Unshockable



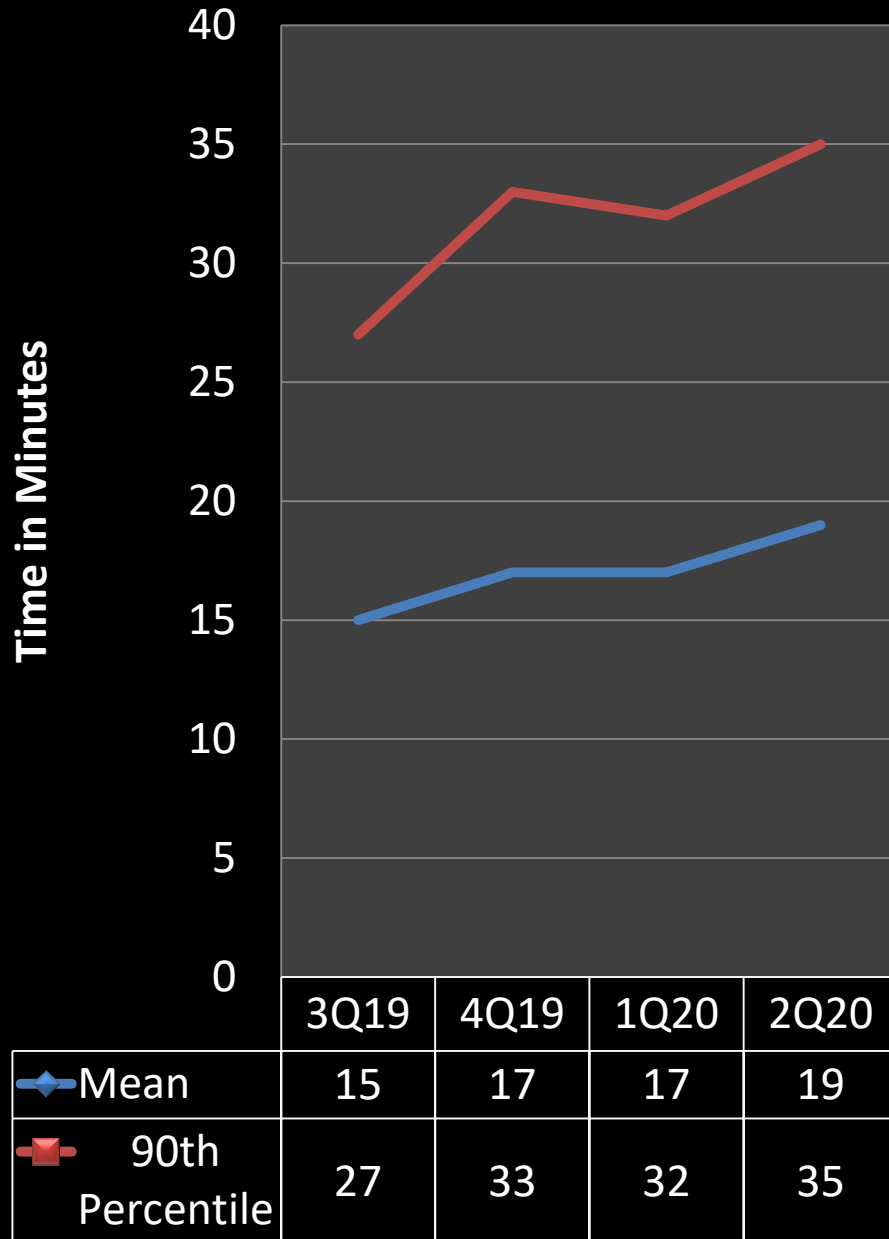
July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
2019	2019	2019	2019	2019	2019	2020	2020	2020	2020	2020	2020
n=48	n=48	n=60	n=66	n=63	n=80	n=50	n=73	n=63	n=72	n=70	n=80

Respiratory Distress

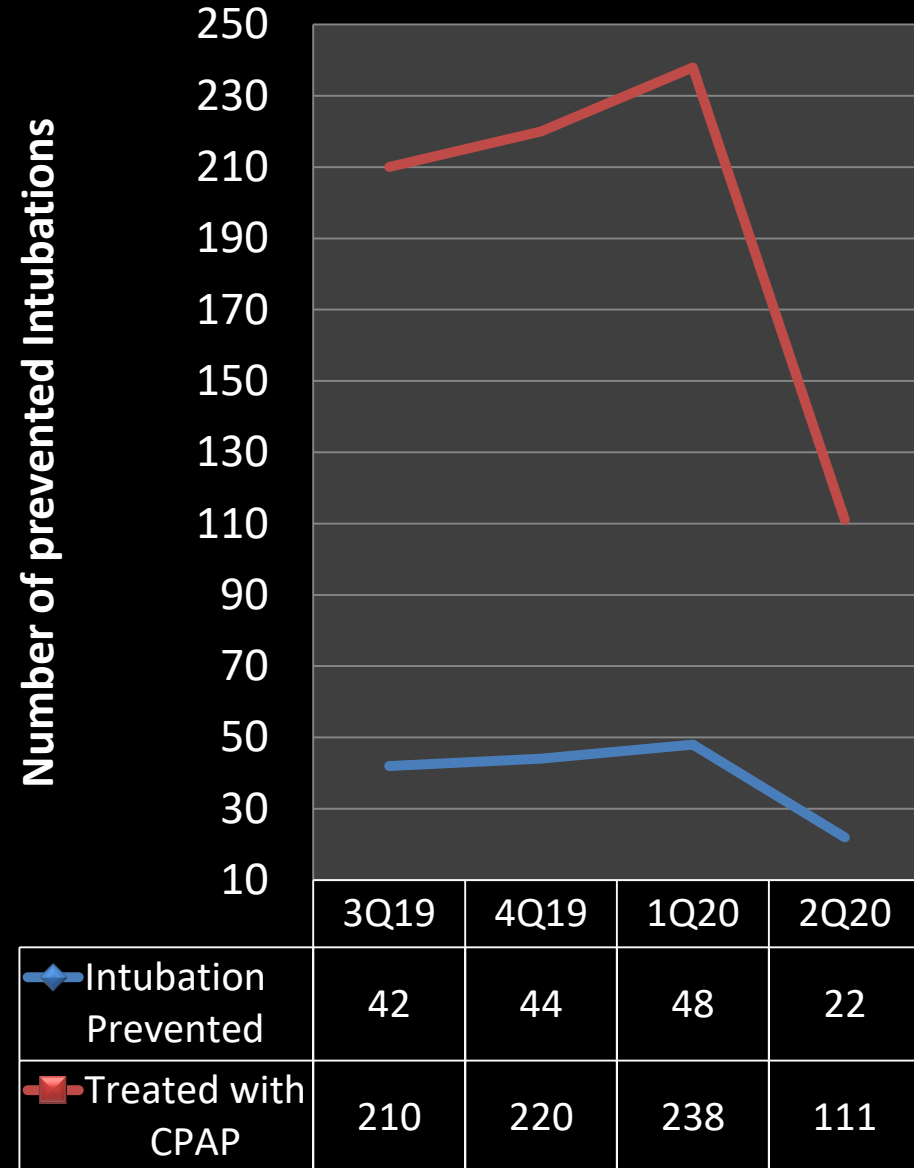


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Wake EMS System CPAP Application Time



Wake EMS System Intubation Prevented with CPAP



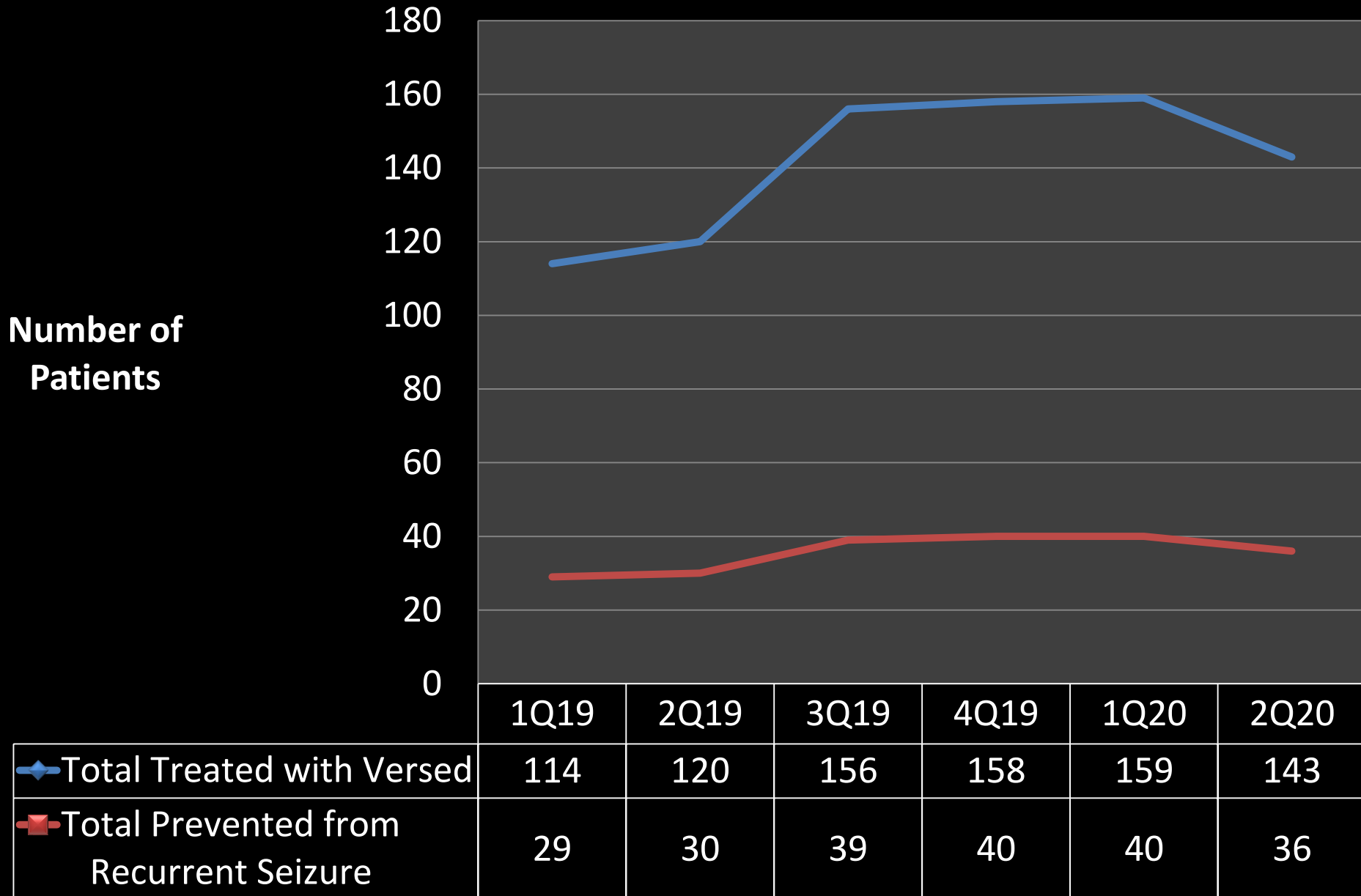
Miscellaneous Reports



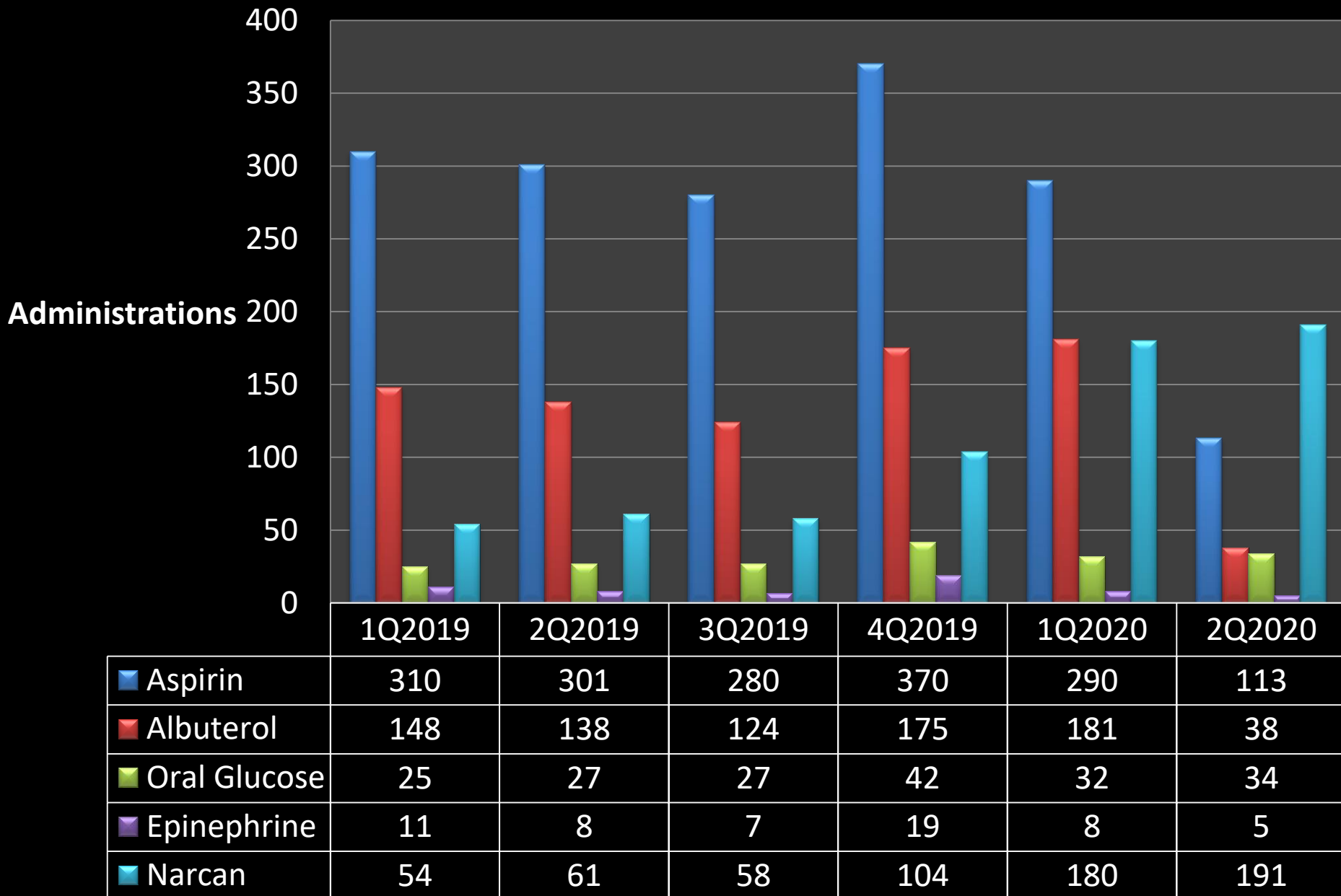
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Wake EMS System

Seizure Patients Treated with Versed



Medications Administered by First Responders – Derived from EMS Documentation

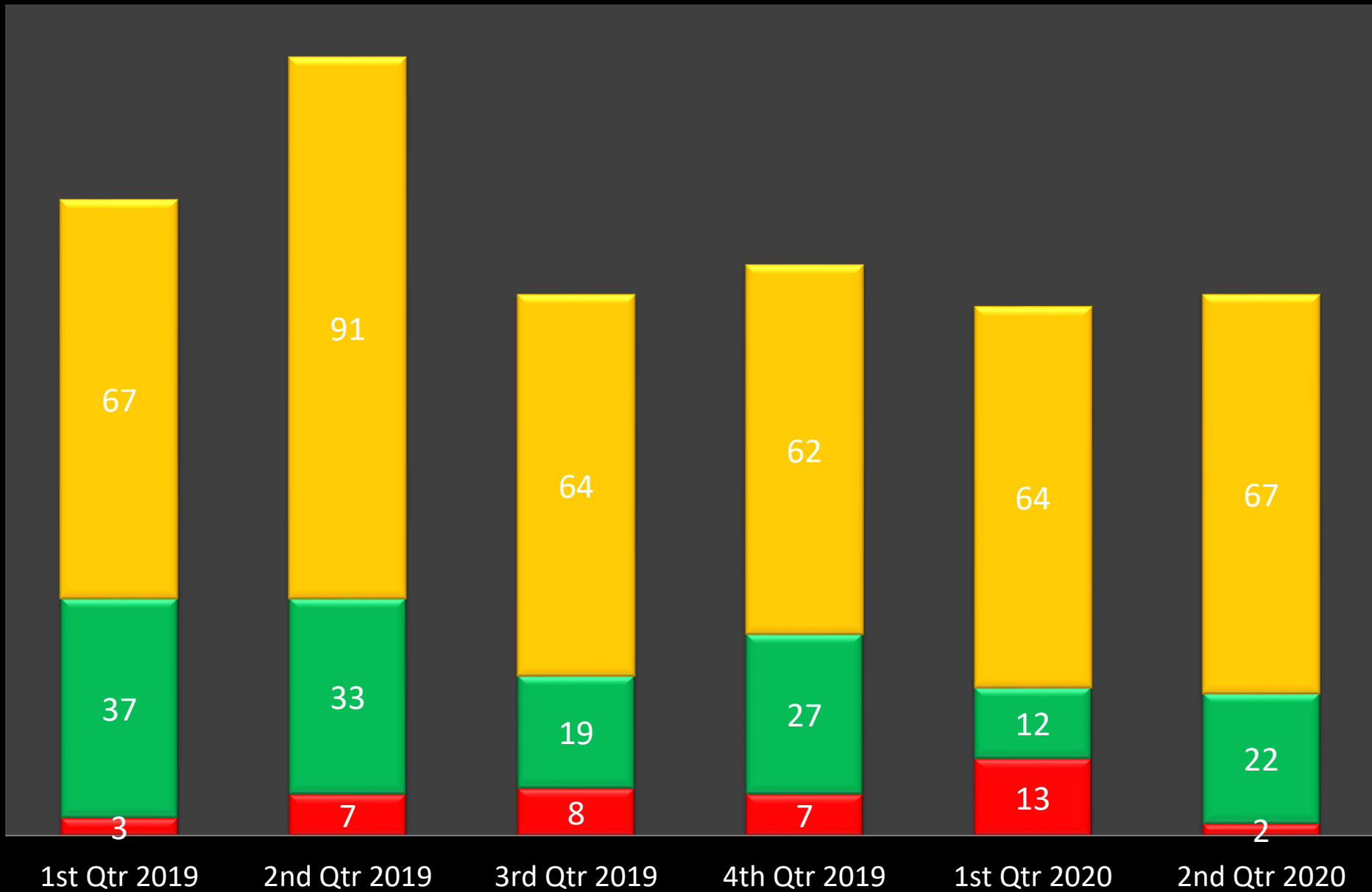


Reason for OMD Contact

■ Automatic Notification

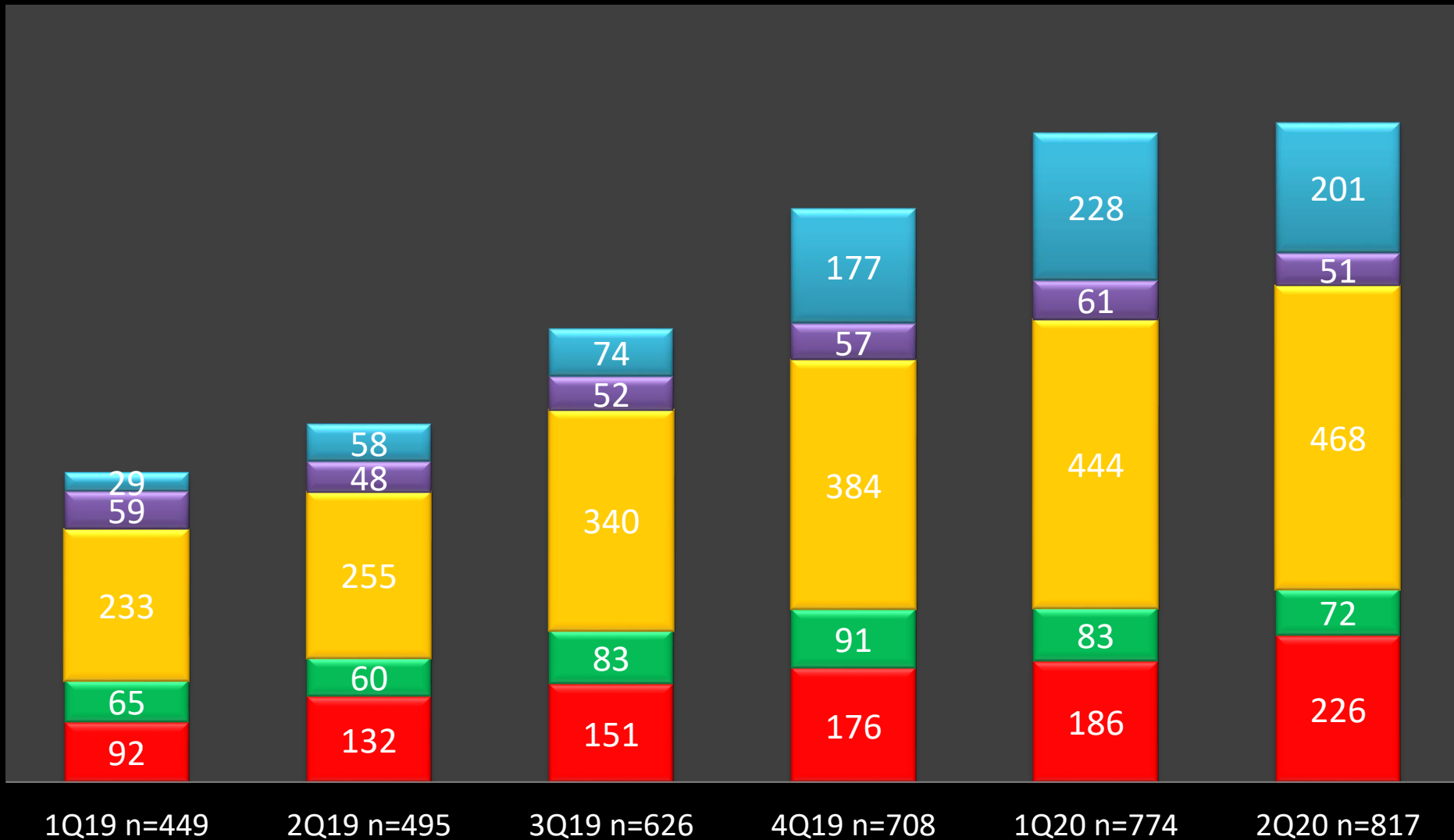
■ Medical Control Order

■ Unusual Event

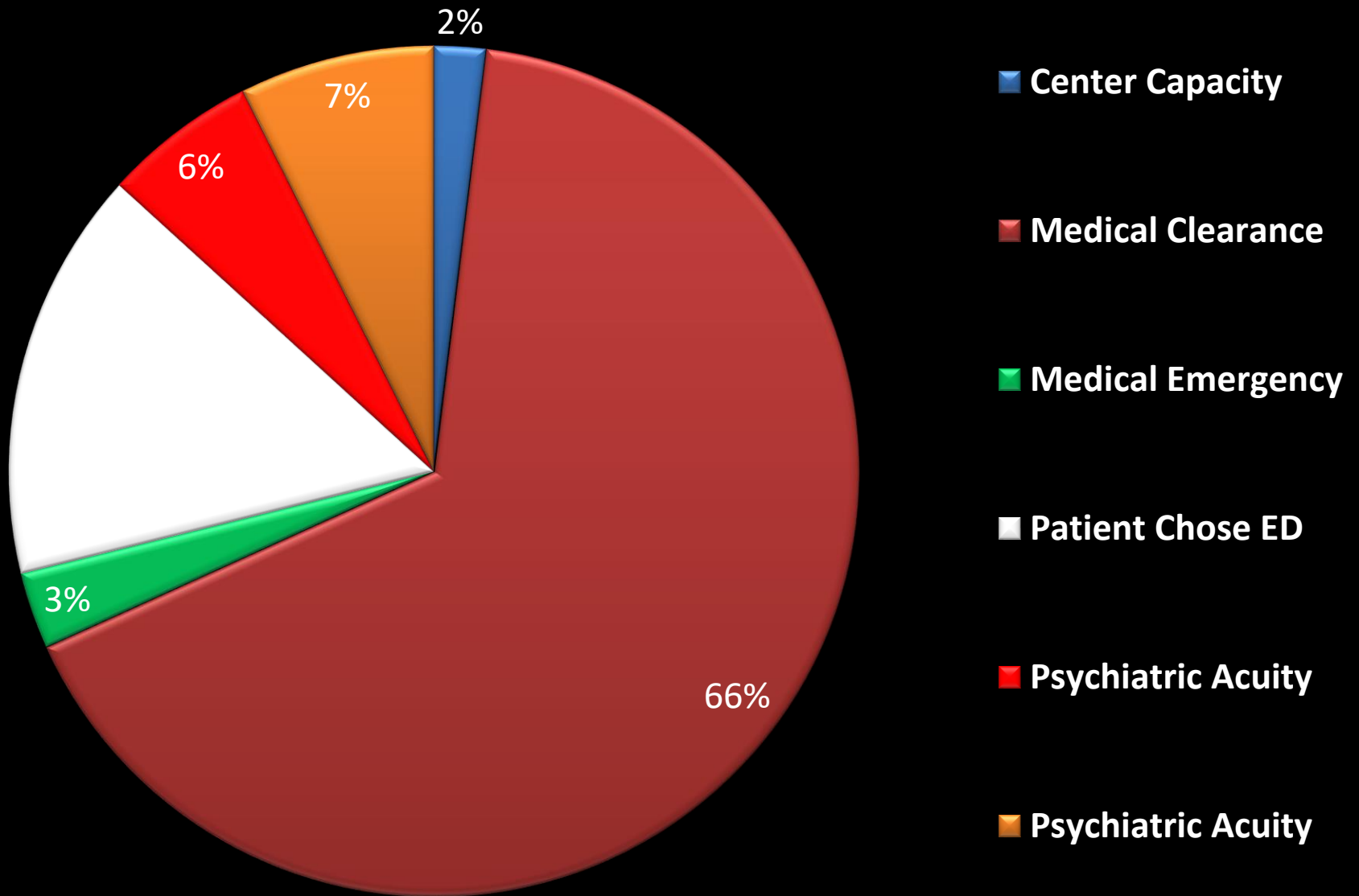


APP Alternate Destination

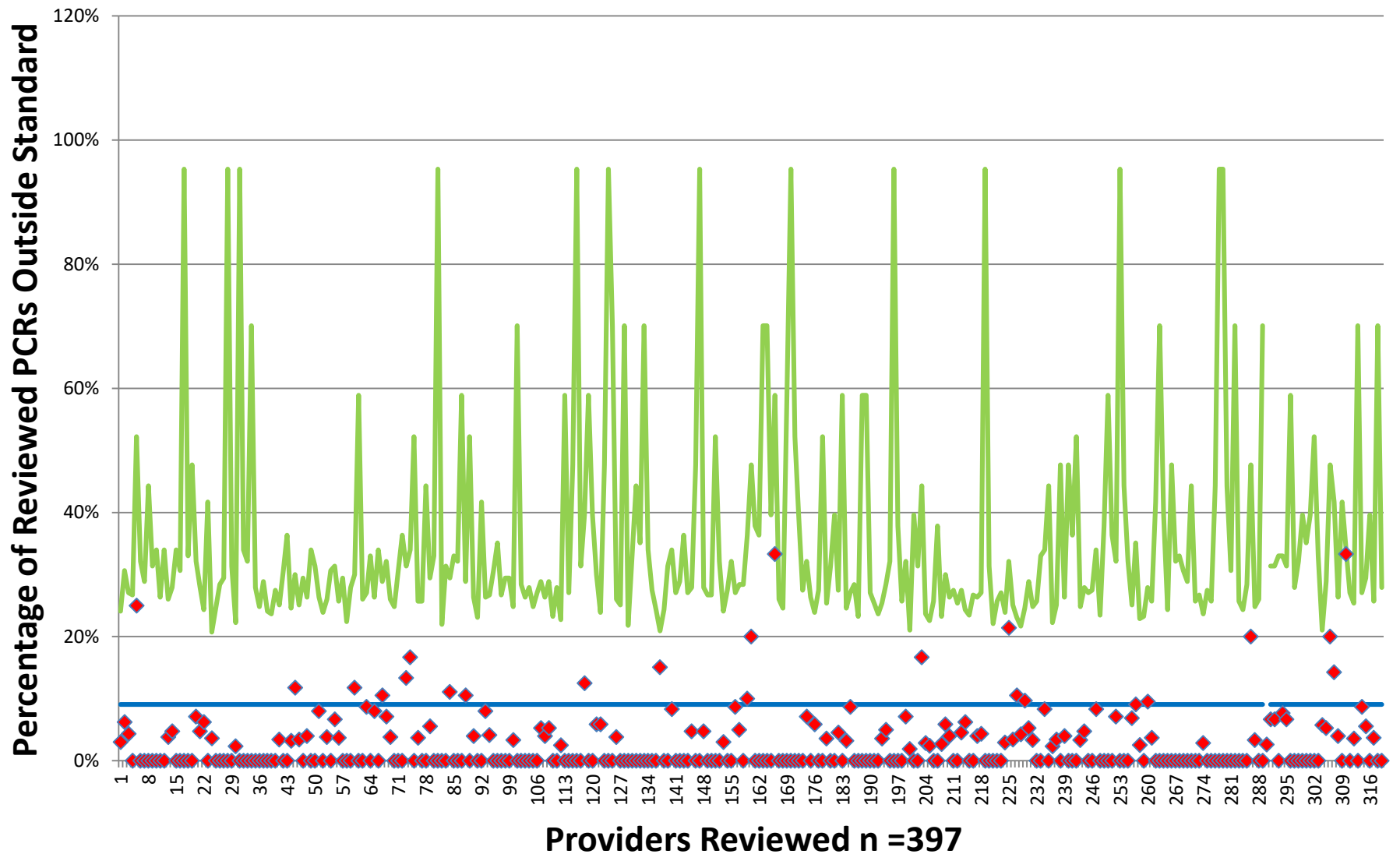
- No Transport
- Transport to ED
- Mobile Crisis
- Transport to Alternative Location
- Transported to Psychiatric Hospital



2nd Quarter 2020 Alternate Destination Reason for ED Transport



Clinical Care Outside Standard (based on EBM Bundles, n = 7279 PCRs)



◆ Provider's % Outside Standard

— Overall % Outside Standard = 4.5

— Upper Confidence Limit

WAKE COUNTY

EMS COVID/ILI vs 911 Responses

