

# Wake EMS System Peer Review Clinical Data

1st Quarter 2021



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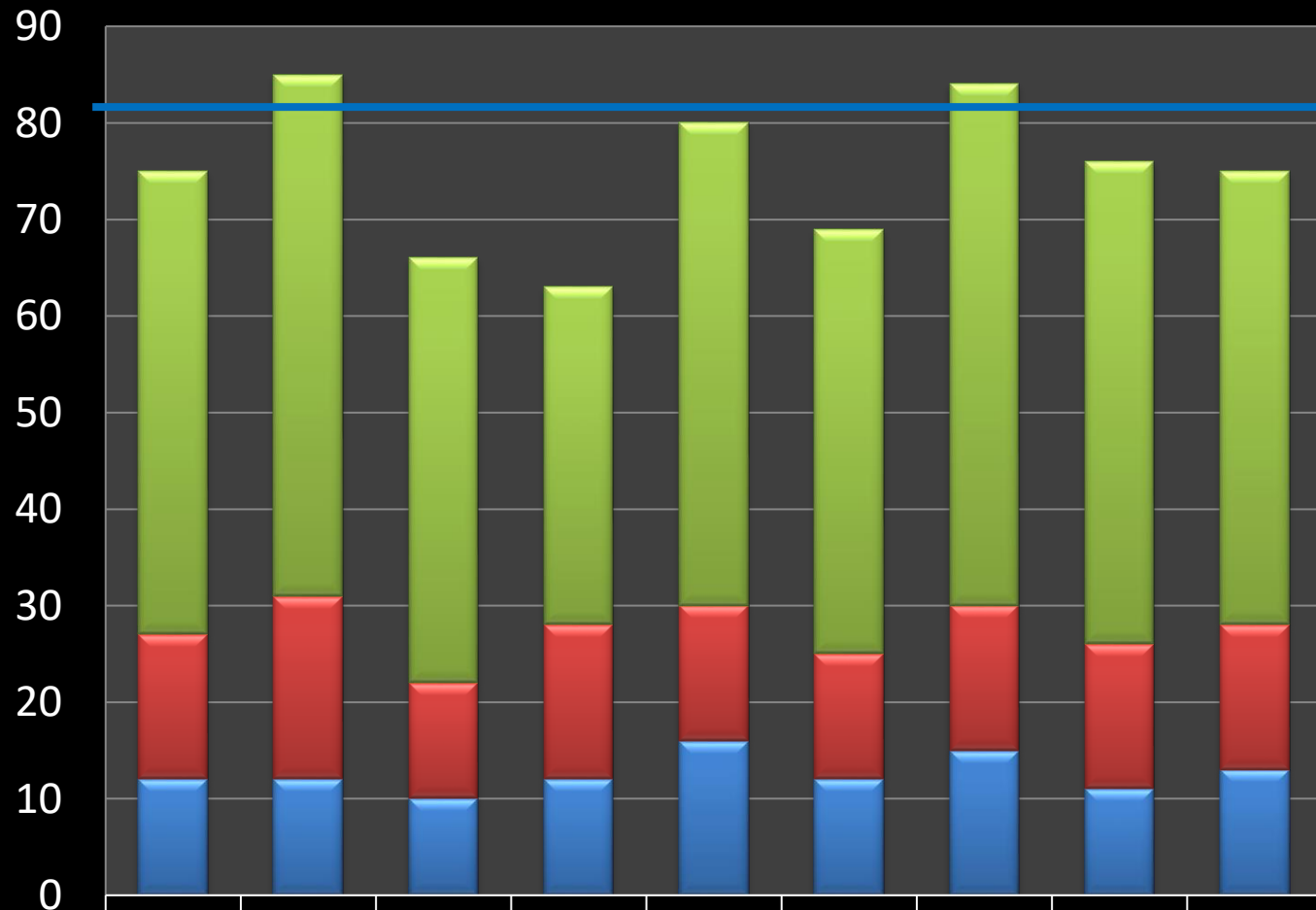
# STEMI



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

Time in Minutes



	July 20	Aug 20	Sept 20	Oct 20	Nov 20	Dec 20	Jan 21	Feb 21	Mar 21
■ Hospital Arrival to Intervention	48	54	44	35	50	44	54	50	47
■ Scene Departure to Hospital Arrival	15	19	12	16	14	13	15	15	15
■ 1st Patient Contact to Scene Departure	12	12	10	12	16	12	15	11	13



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

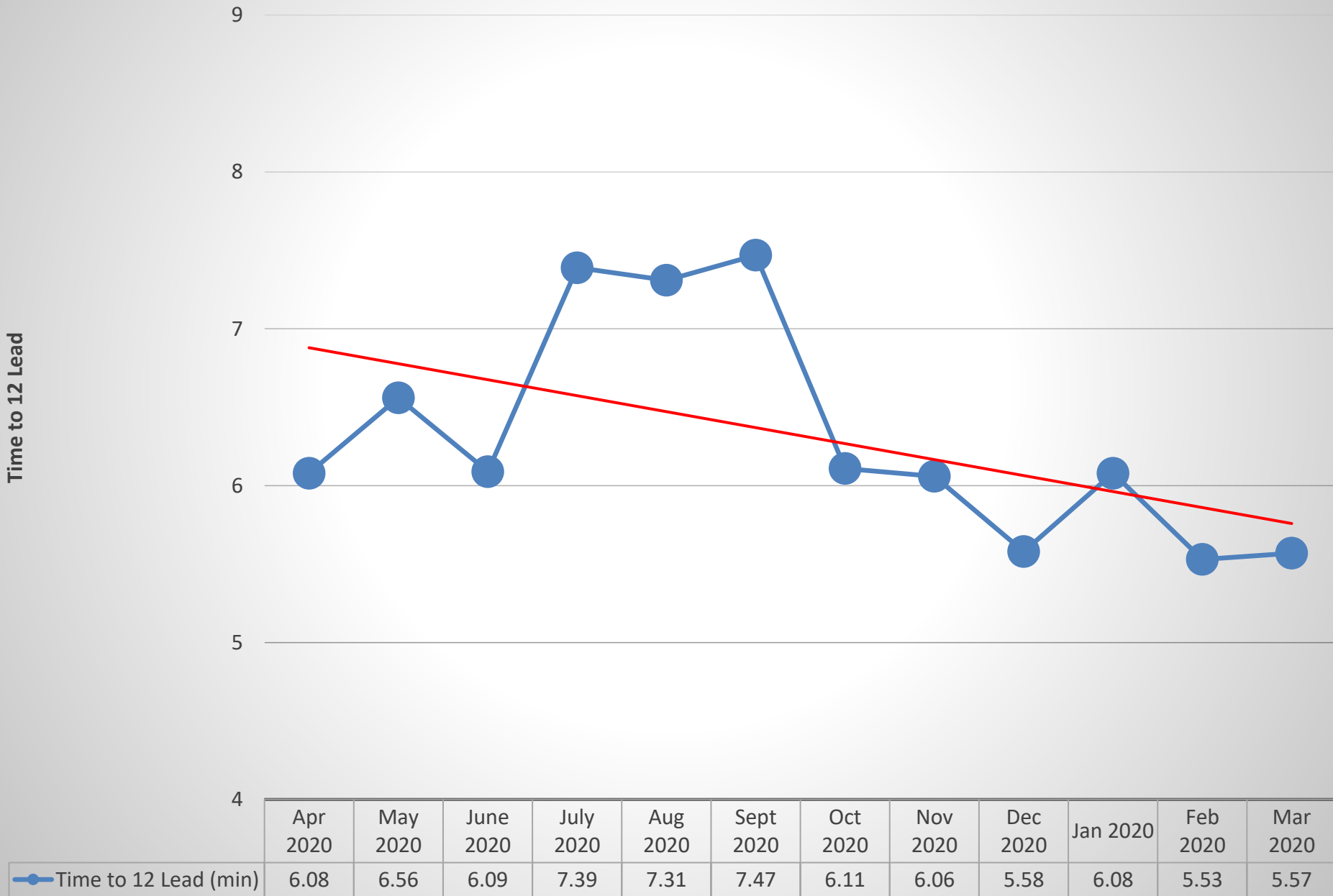


Percent Administered

	Apr 2020	May 2020	June 2020	July 2020	Aug 2020	Sept 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2020	Feb 2020	Mar 2020	
ASA Administered	83%	80%	85%	82%	75%	82%	83%	86%	85%	85%	86%	85%	

# Wake EMS

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



# Stroke

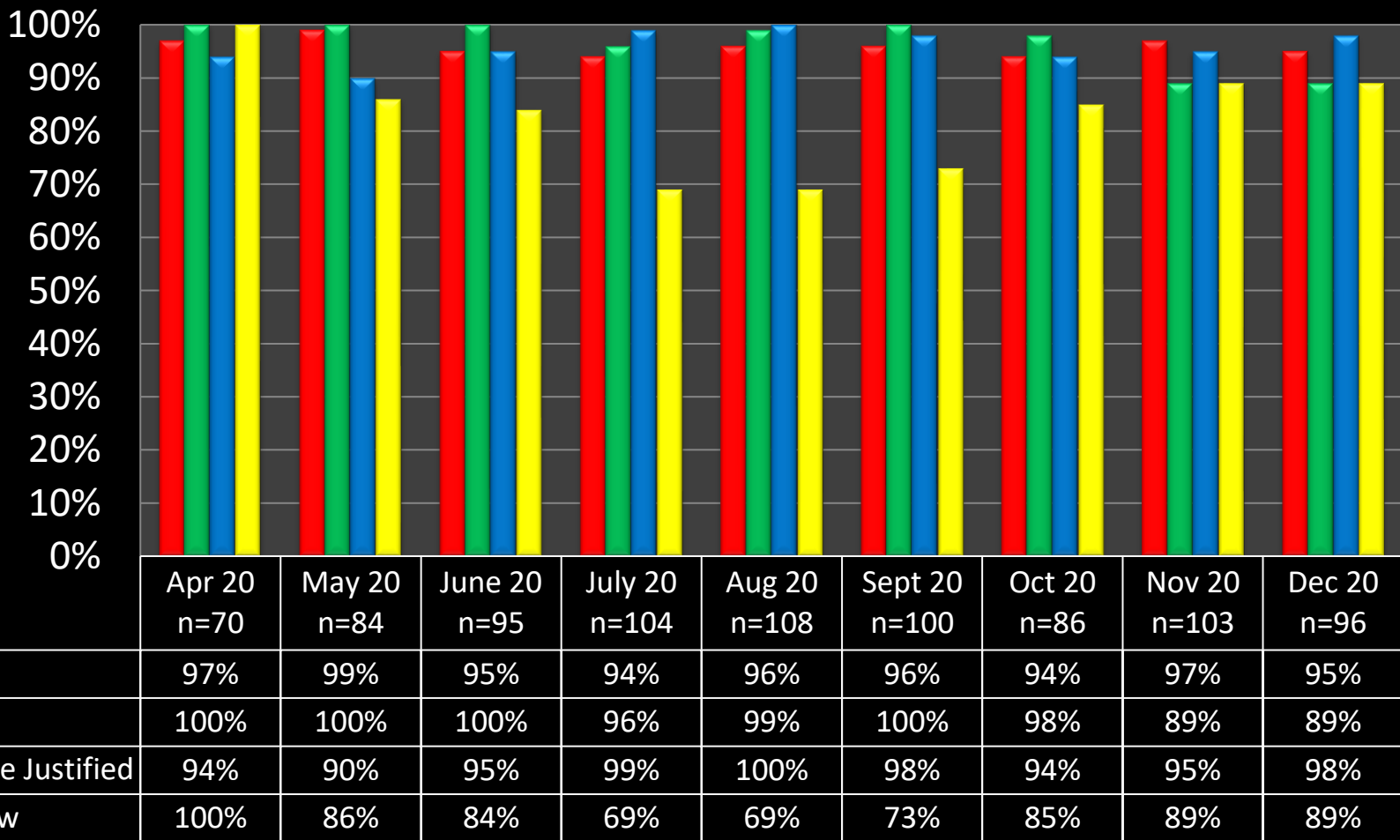


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# EMS Stroke Evidence Based Medicine Measures

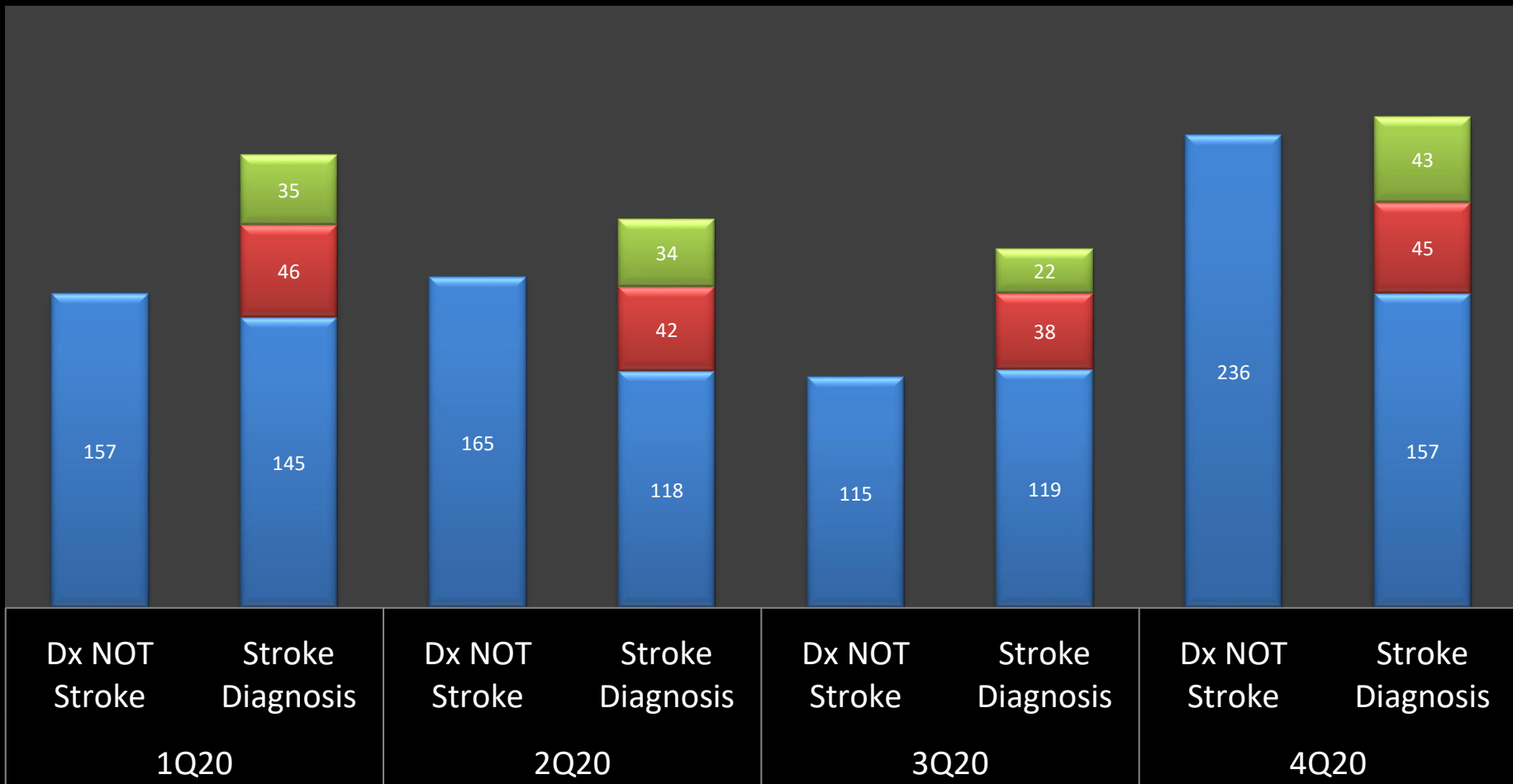
## Patients Transported by EMS with Suspected or Confirmed Stroke

Percentage  
Performed



# Code Strokes by EMS taken to Wake County Hospitals

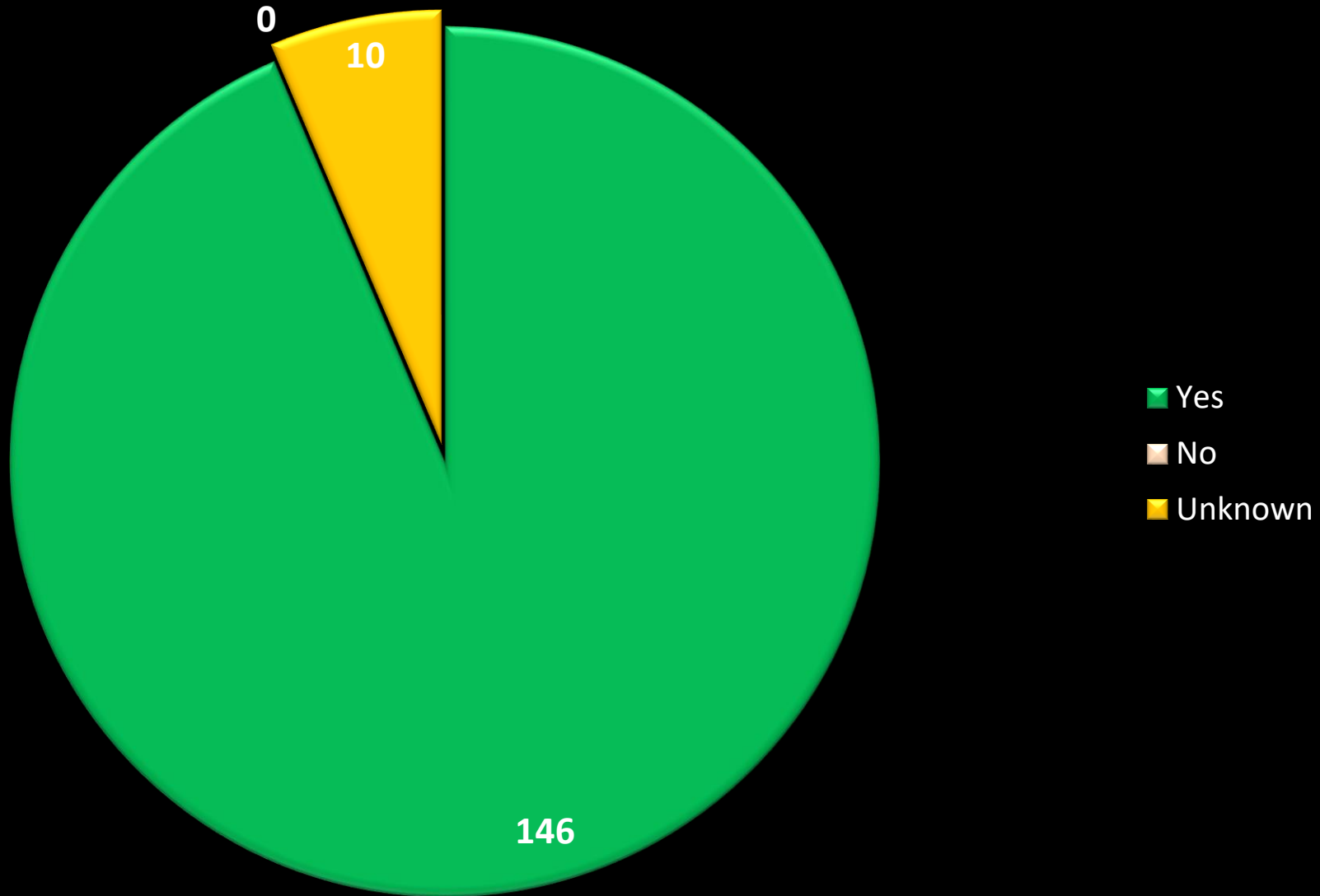
■ No TPA Given ■ TPA Given ■ ICH



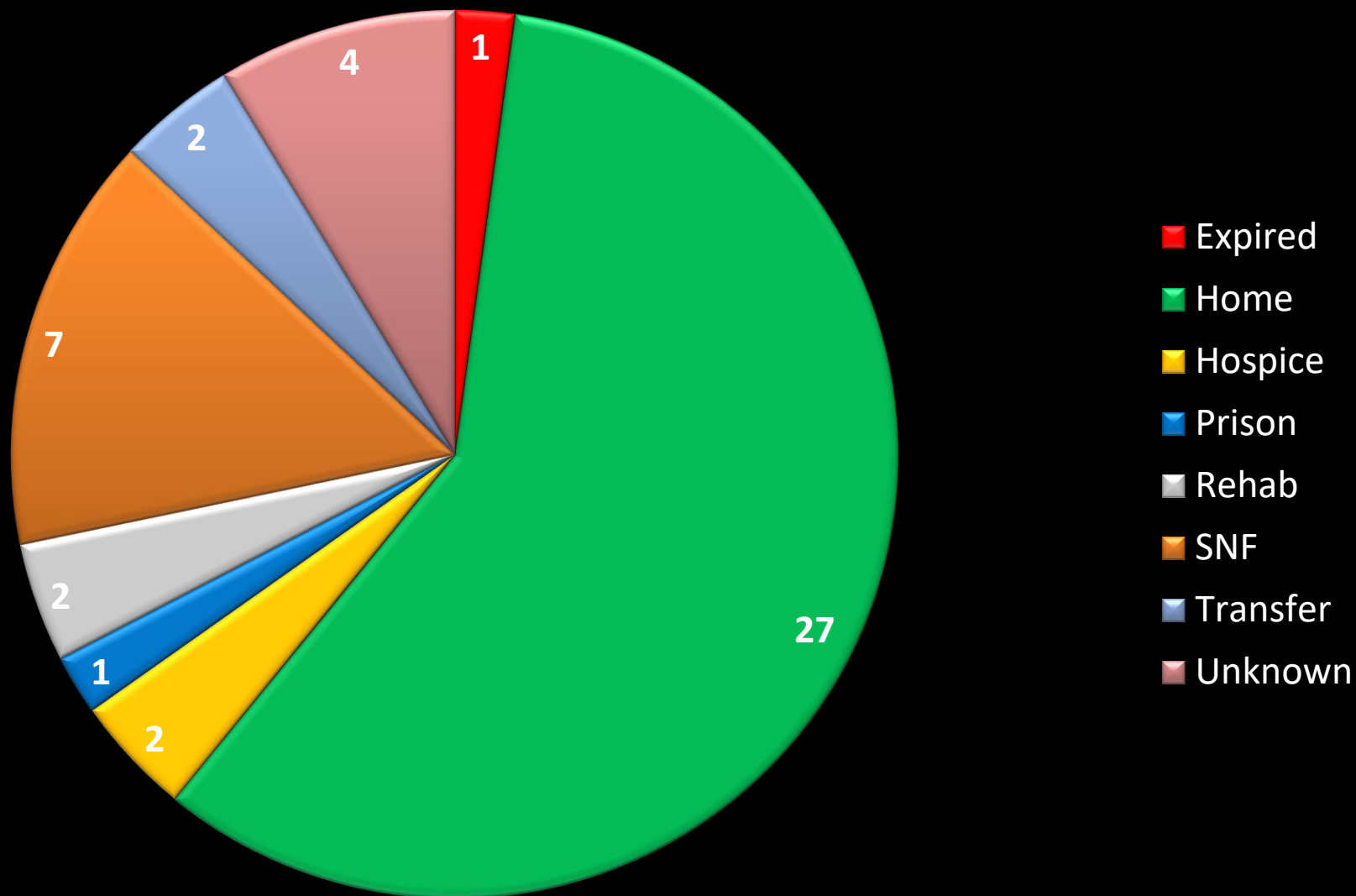
# Stroke Intervention

Date	Initial Hospital	2nd Receiving Hospital	Intervention Type	Intervention Performed	Initial ED to Puncture Time	2nd Hospital to Reperfusion Time	TICI	IA or Transfer for IA	Hospital Stroke Diagnosis
11/7/2020	Rex Healthcare	Rex	IA	No	02:04:52			Yes	Yes
11/14/2020	WakeMed Main	WakeMed Main	tPA-IA	Thrombectomy	01:25:03	01:44:03	2a	Yes	Yes
11/16/2020	Cary-WakeMed	WakeMed Cary	tPA-IA	Thrombectomy	01:29:35	02:12:35	3	Yes	Yes
11/17/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	02:00:37	02:09:37	3	Yes	Yes
11/20/2020	WakeMed Main	WakeMed Main	tPA-IA	None	01:22:23			Yes	Yes
11/20/2020	Rex Healthcare	Rex	tPA-IA	None	02:16:46			Yes	Yes
11/23/2020	North-WakeMed	WakeMed Main	IA	Thrombectomy	02:04:28	02:22:00	3	Yes	Yes
11/25/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	02:00:38	02:20:38	3	Yes	Yes
11/25/2020	WakeMed Main	WakeMed Main	tPA-IA	Thrombectomy	00:48:25	01:36:25	3	Yes	ICH
11/25/2020	Rex Healthcare	Rex	IA	Thrombectomy	01:19:14	01:49:14	2c	Yes	Yes
11/25/2020	Rex Healthcare	Rex	IA	Thrombectomy	02:21:25	03:38:25	2b	Yes	Yes
11/29/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	00:40:20	00:59:20	3	Yes	Yes
12/4/2020	Duke Raleigh Hospital	Duke Raleigh	IA	Thrombectomy	03:43:18	04:23:18	0	Yes	Yes
12/5/2020	Cary-WakeMed	WakeMed Cary	IA	Thrombectomy	01:21:00	01:42:00	3	Yes	Yes
12/6/2020	Rex Healthcare	Rex	IA	Thrombectomy	01:20:56	03:54:56	2a	Yes	Yes
12/7/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	02:00:24	02:52:24	3	Yes	Yes
12/12/2020	Rex Healthcare	Rex	IA	Thrombectomy	02:27:15	04:47:15	3	Yes	Yes
12/12/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	01:18:41	02:59:41	3	Yes	Yes
12/13/2020	WakeMed Main	WakeMed Main	IA	Thrombectomy	01:33:00	02:17:00	2a	Yes	Yes
12/14/2020	Cary-WakeMed	WakeMed Cary	IA	Thrombectomy	01:06:27	01:55:27	3	Yes	Yes
12/15/2020	Cary-WakeMed	WakeMed Cary	tPA-IA	Thrombectomy	02:17:21	03:29:21	3	Yes	Yes
12/15/2020	Duke Raleigh Hospital	Duke Raleigh	IA	Thrombectomy	02:34:01	03:29:01	1	Yes	Yes
12/16/2020	Rex Healthcare	Rex	IA	Thrombectomy	01:20:02	02:47:02	3	Yes	Yes
12/21/2020	Duke Raleigh Hospital	Duke Raleigh	IA	Thrombectomy	02:41:21	02:56:21	3	Yes	Yes
12/22/2020	WakeMed Main	WakeMed Main	tPA-IA	Thrombectomy	01:23:36	01:40:36	3	Yes	Yes
12/23/2020	Cary-WakeMed	Duke Raleigh	tPA-IA	None				Yes	Yes
12/29/2020	Rex Healthcare	Rex	tPA-IA	Thrombectomy	01:47:03	02:23:03	3	Yes	Yes

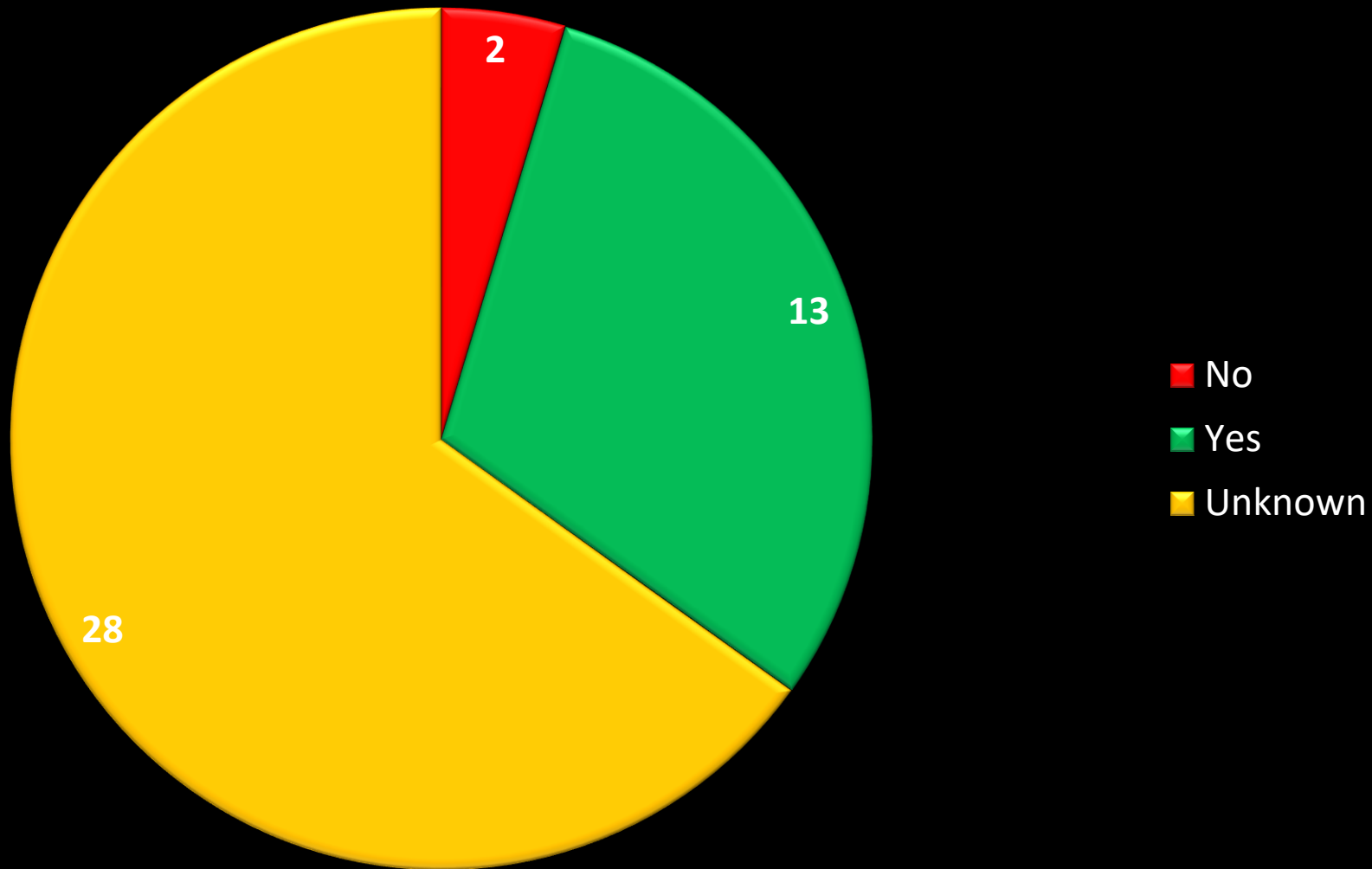
**All Hospitals 4<sup>th</sup> Qtr 2020**  
**Hospital DCDx Stroke that did not Receive tPA or Intervention**



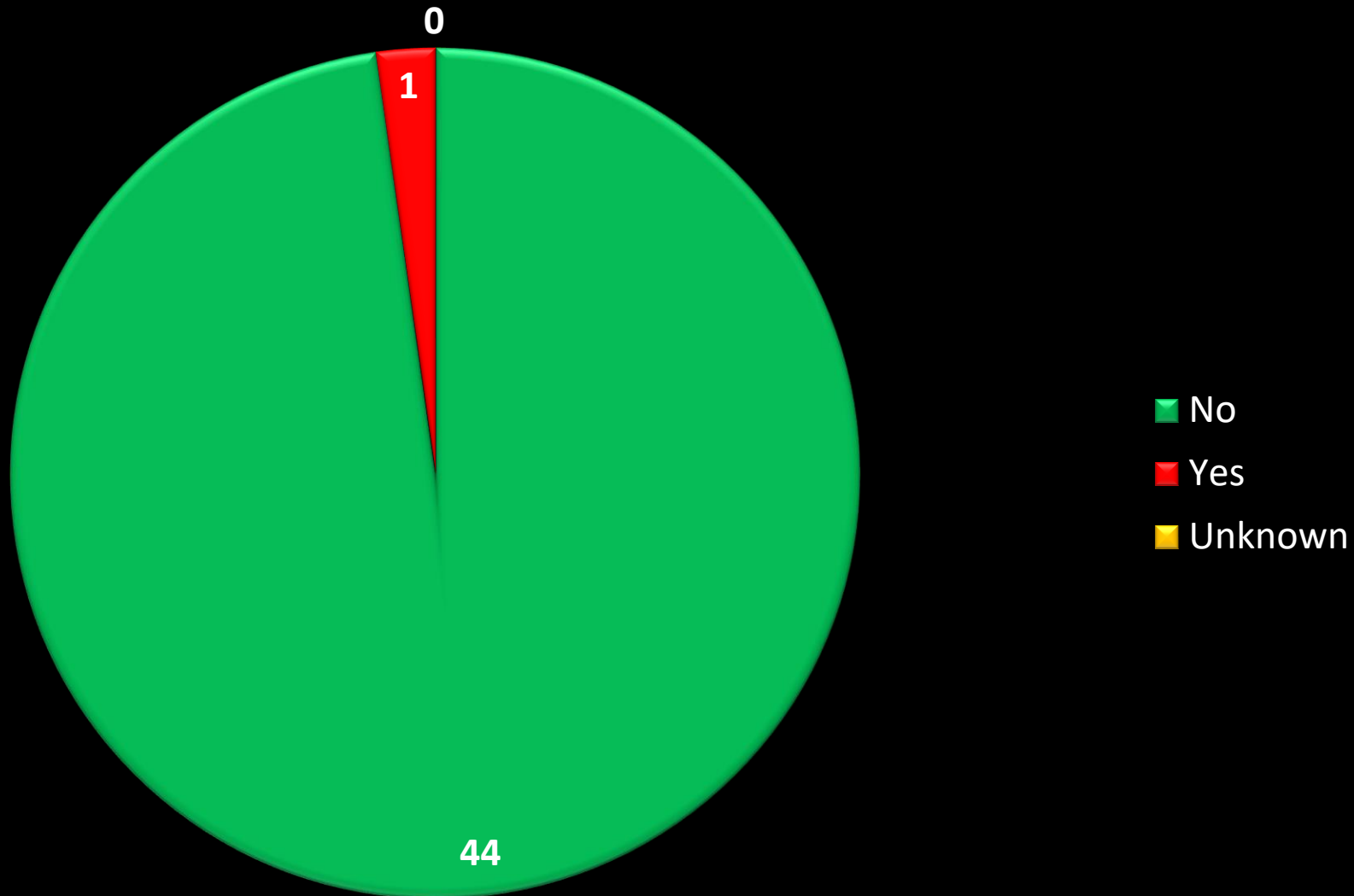
**All Hospitals 4<sup>th</sup> Qtr 2020**  
**Outcomes for Wake EMS Stroke Patients who Received tPA**



**All Hospitals 4th Qtr 2020**  
**Wake EMS Stroke Patients who Received tPA**  
**Symptom Improvement**

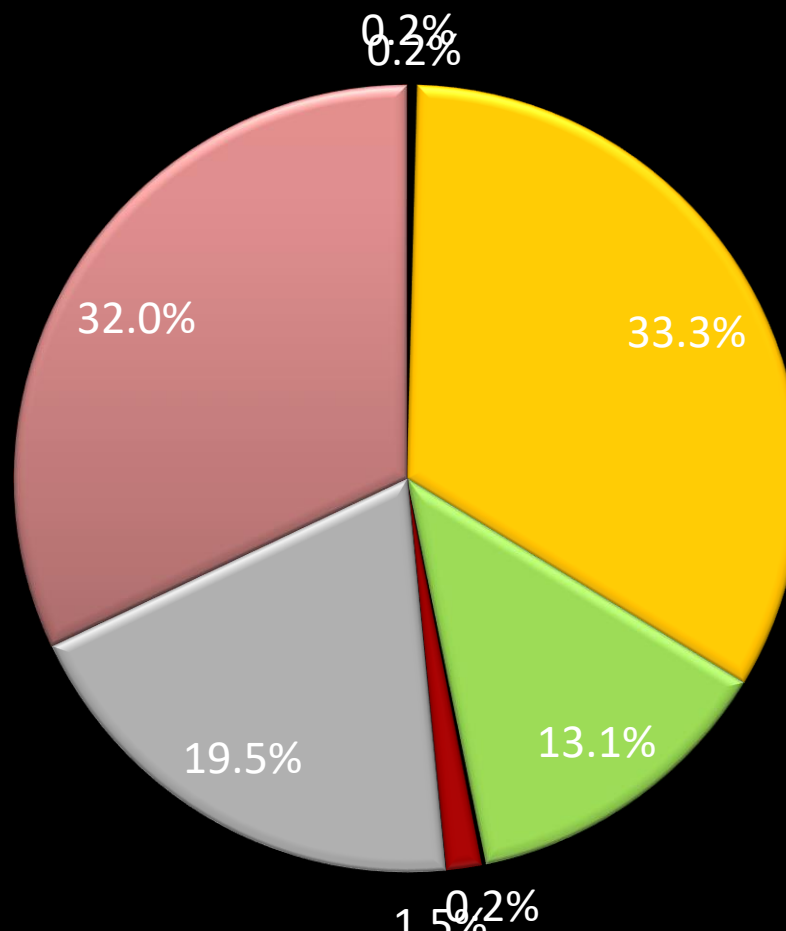


**All Hospitals 4<sup>th</sup> Qtr 2020**  
**Wake EMS Stroke Patients who Received tPA**  
**ICH Post Administration**



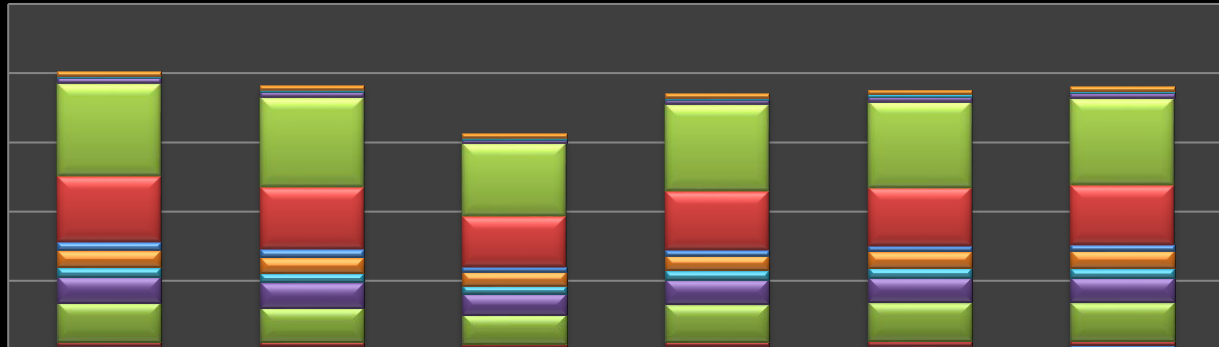
## Destination for Wake EMS Patients with Suspected or Confirmed Stroke 4<sup>th</sup> Qtr 2020

- Apex Healthplex-WakeMed
- 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

	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21
Out of County	319	261	267	292	270	315
UNC	140	177	145	140	148	153
Duke Durham	413	367	280	351	354	357
WakeMed Main	6731	6500	5288	6319	6248	6331
Rex Healthcare	4735	4514	3639	4209	4197	4273
Pediatric ED WakeMed	596	570	343	408	383	411
North- WakeMed	1214	1134	998	1069	1181	1264
Garner Healthplex WakeMed	707	658	575	668	715	695
Duke Raleigh Hospital	1867	1826	1524	1757	1784	1771
Cary- WakeMed	2806	2470	2126	2699	2820	2824
Brier Creek Healthplex- WakeMed	309	304	192	292	317	289
Apex Healthplex- WakeMed	305	303	240	333	319	348

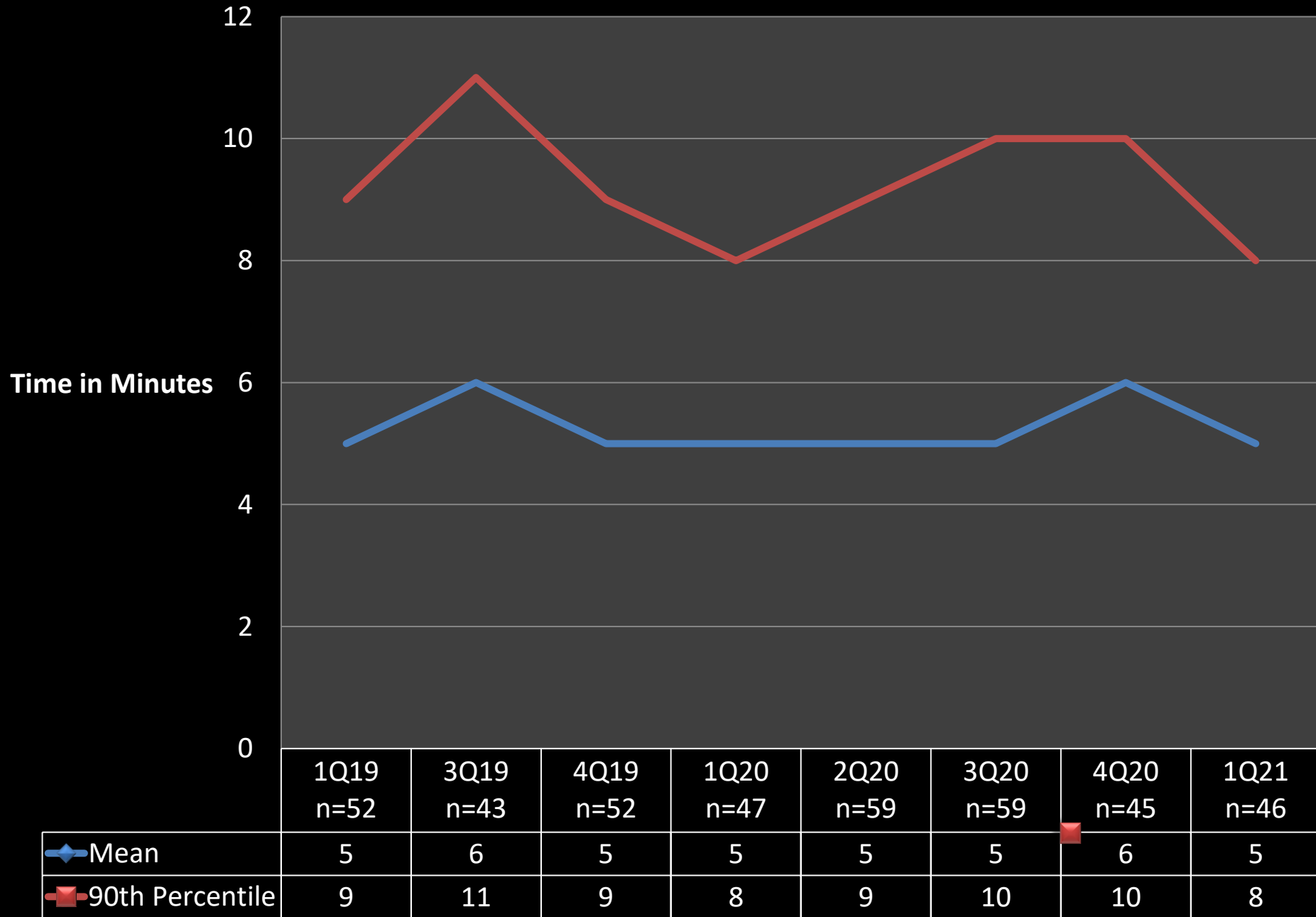
# Trauma



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# Wake EMS System

## Penetrating Trauma Scene Times



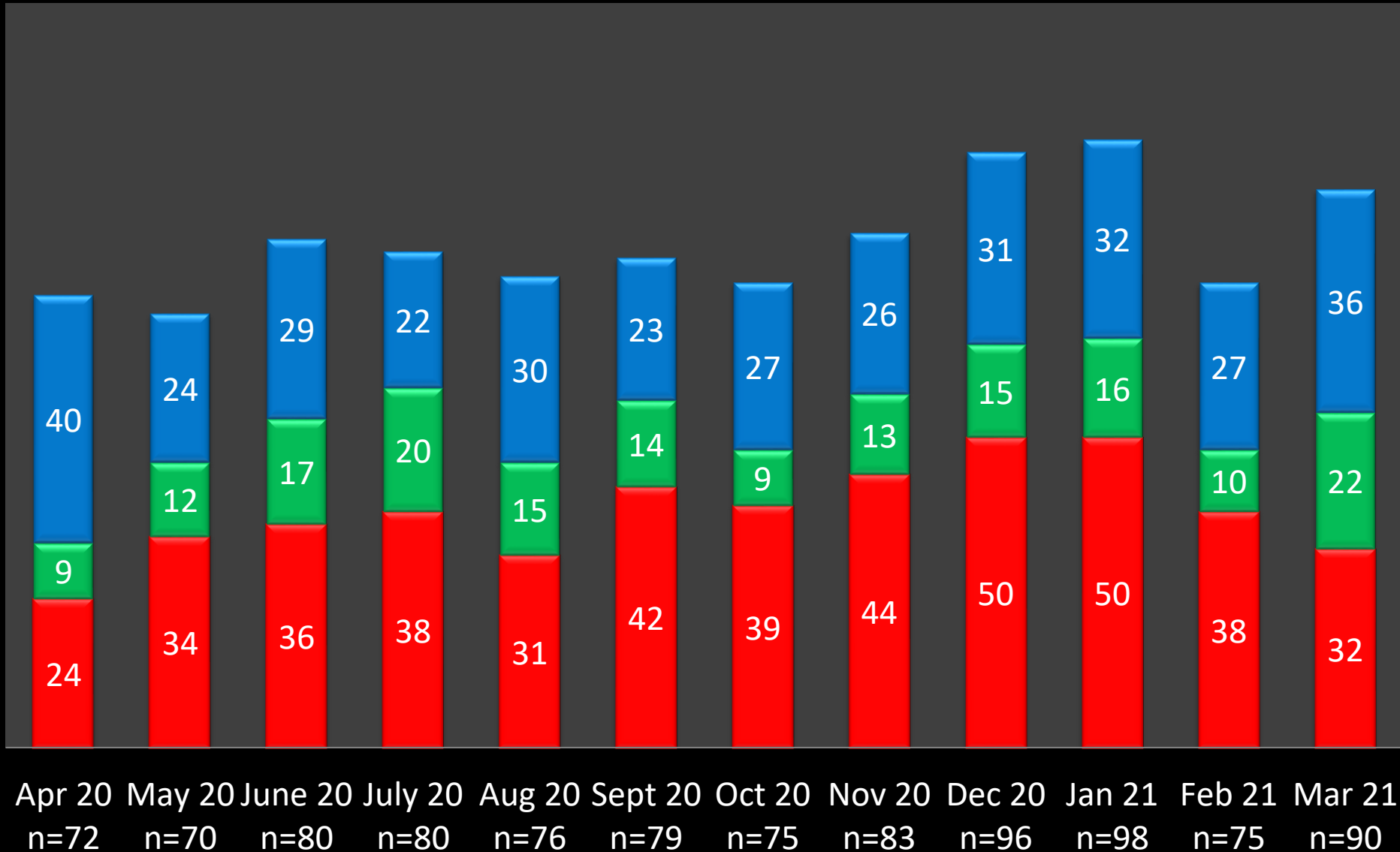
# Cardiac Arrest



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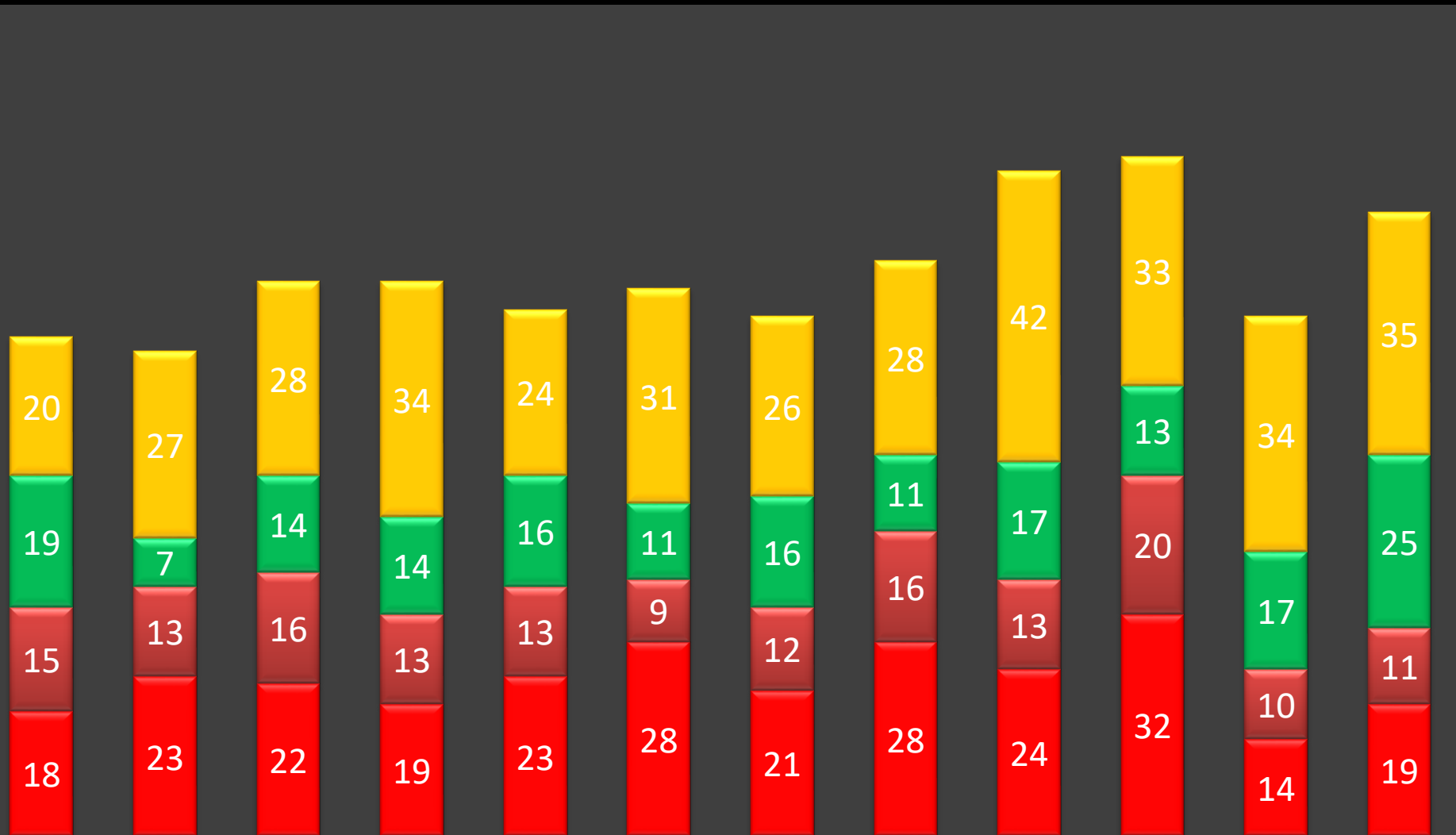
# Wake EMS Worked Cardiac Arrest

- 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



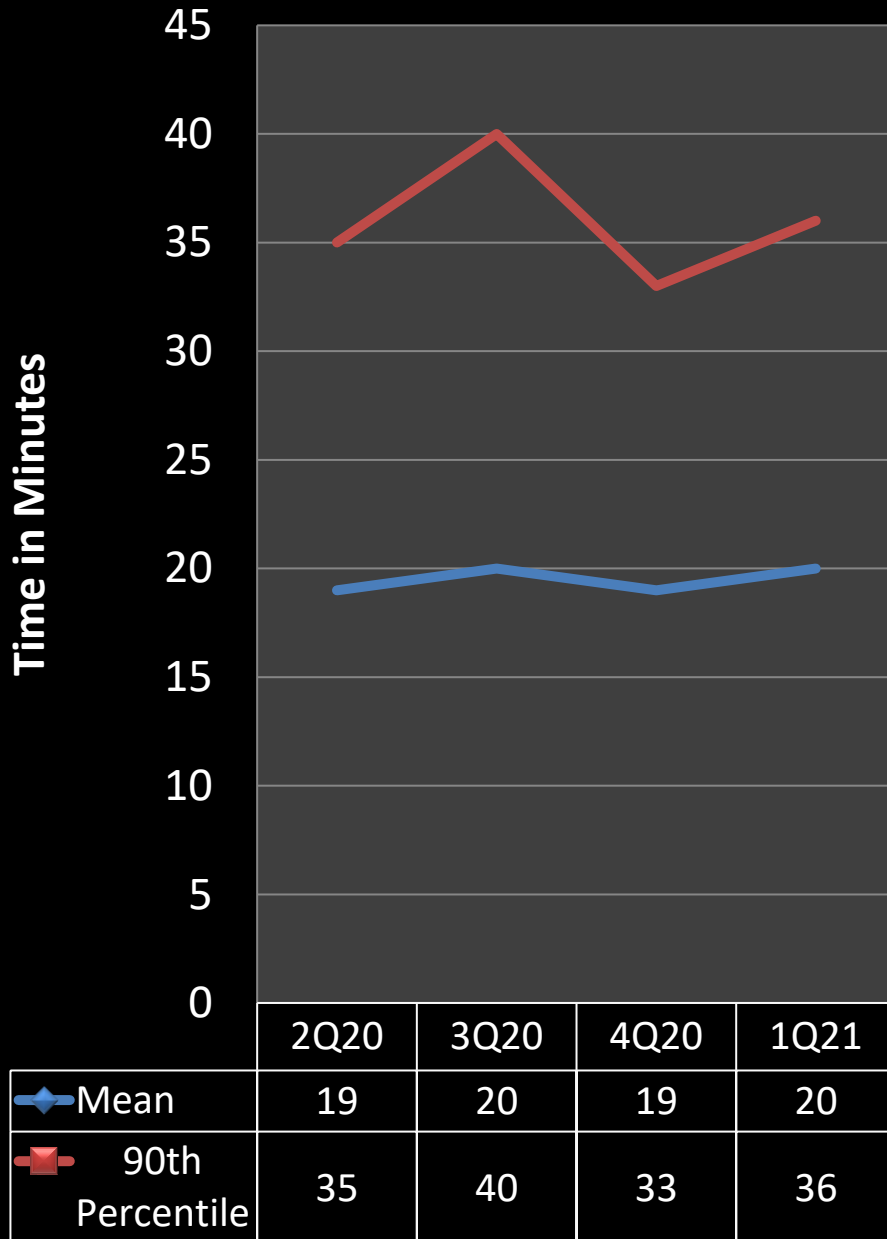
Apr 20   May 20   June 20   July 20   Aug 20   Sept 20   Oct 20   Nov 20   Dec 20   Jan 21   Feb 21   Mar 21  
n=72   n=70   n=80   n=80   n=76   n=79   n=75   n=83   n=96   n=98   n=75   n=90

# Respiratory Distress

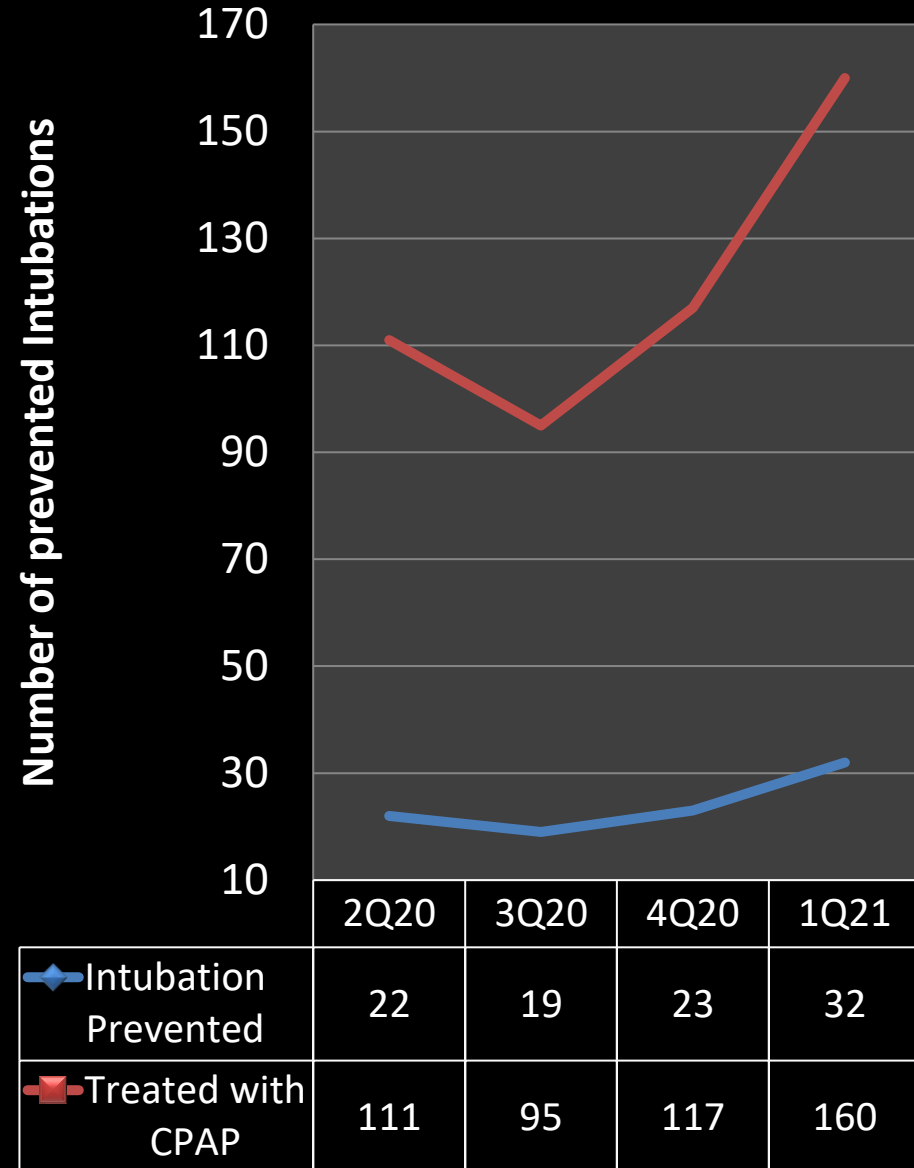


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## Wake EMS System CPAP Application Time



## Wake EMS System Intubation Prevented with CPAP



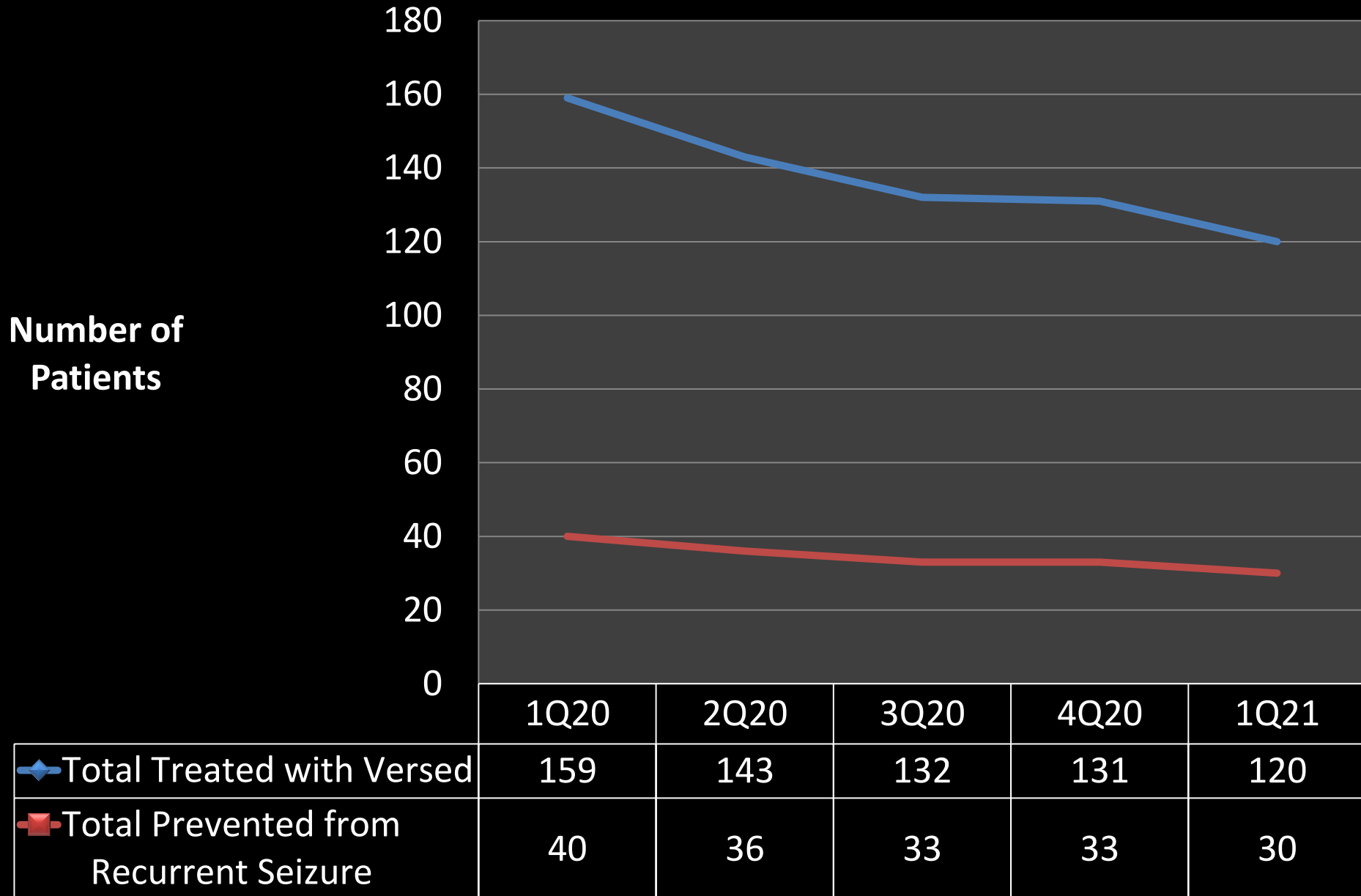
# Miscellaneous Reports



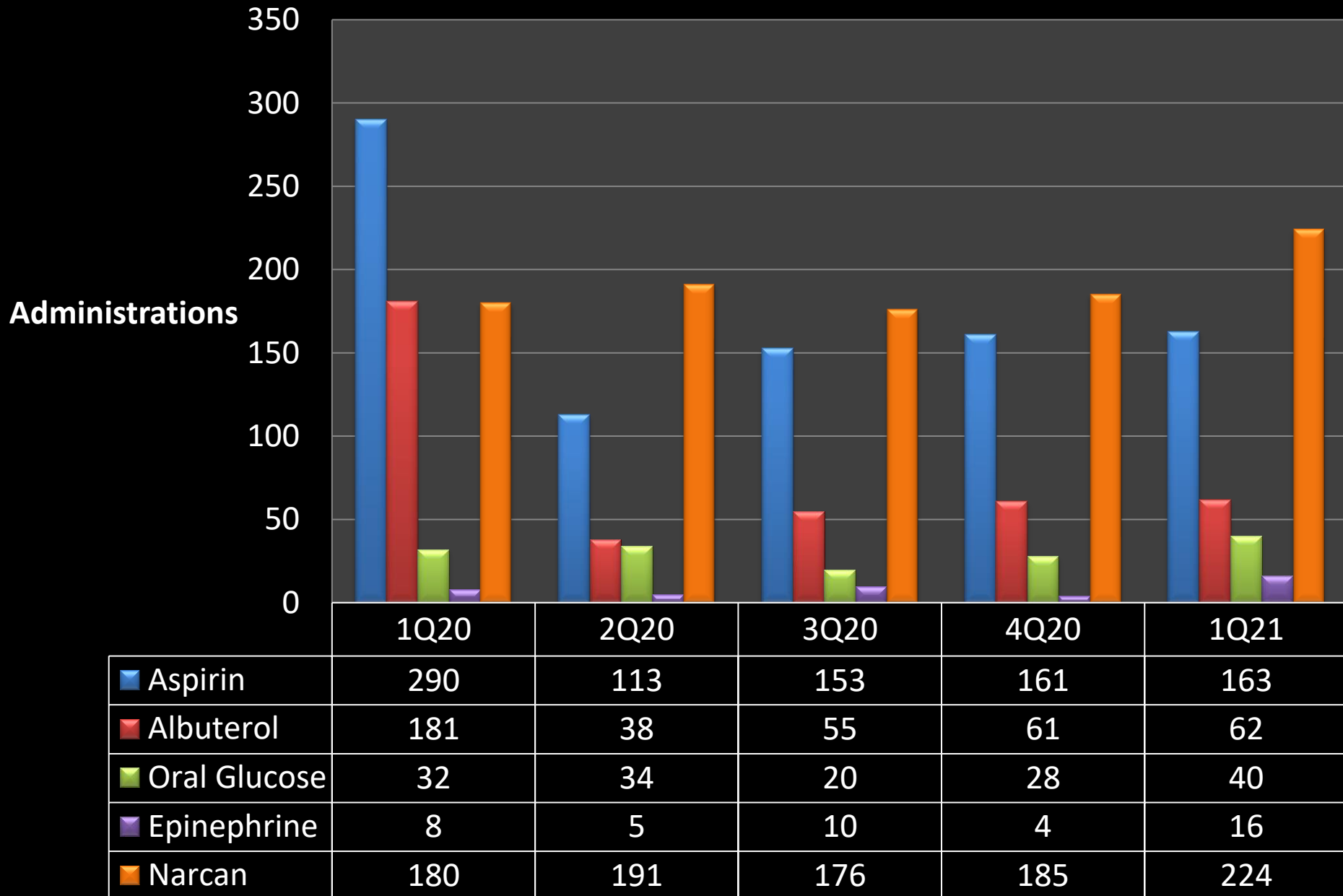
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# Wake EMS System

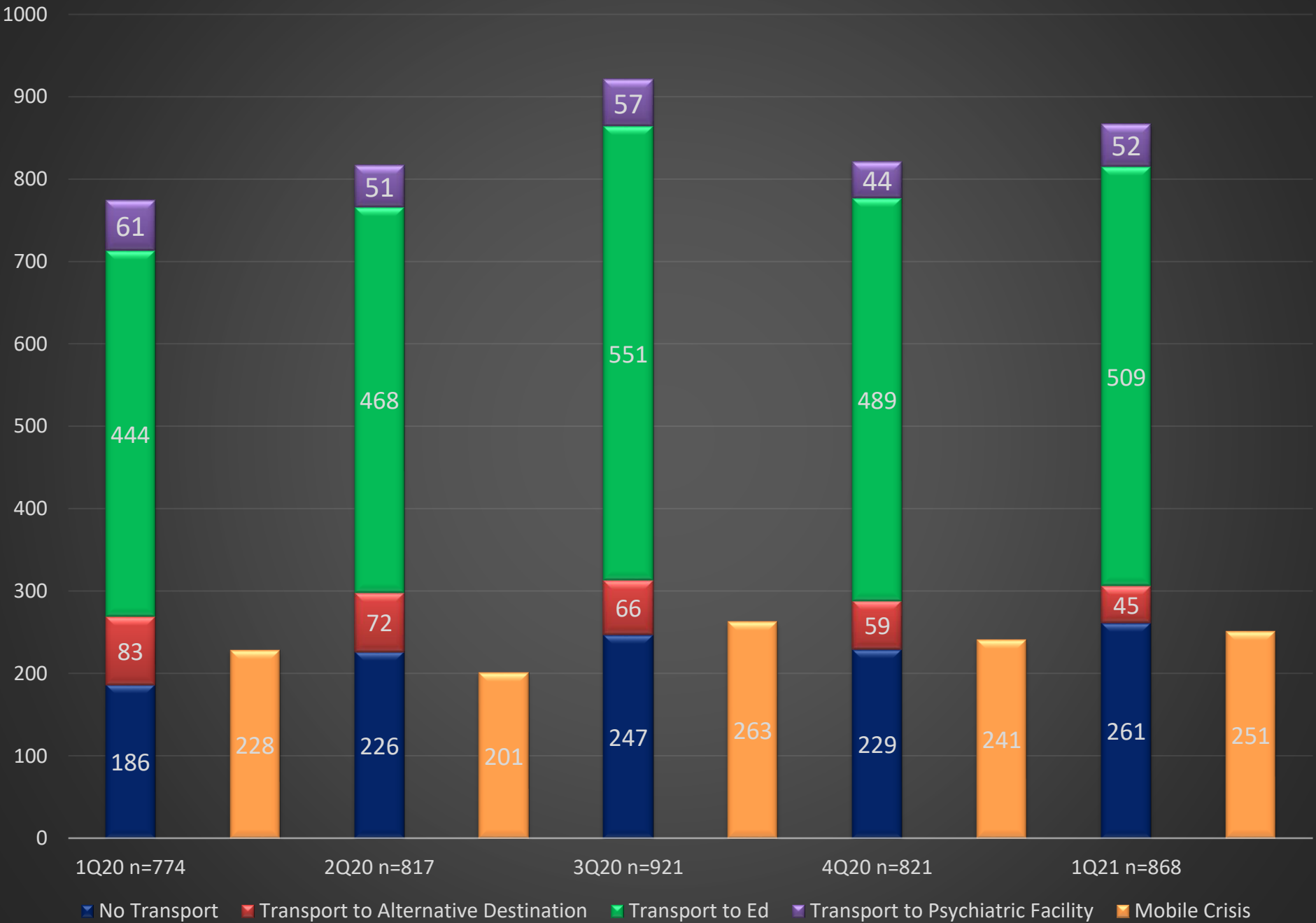
## Seizure Patients Treated with Versed



# Medications Administered by First Responders – Derived from EMS Documentation



# APP Alternate Destination



# 4<sup>th</sup> Quarter 2020 Alternate Destination Reason for ED Transport

