

# Wake EMS System Peer Review Clinical Data

1st Quarter 2021



@wakegov    

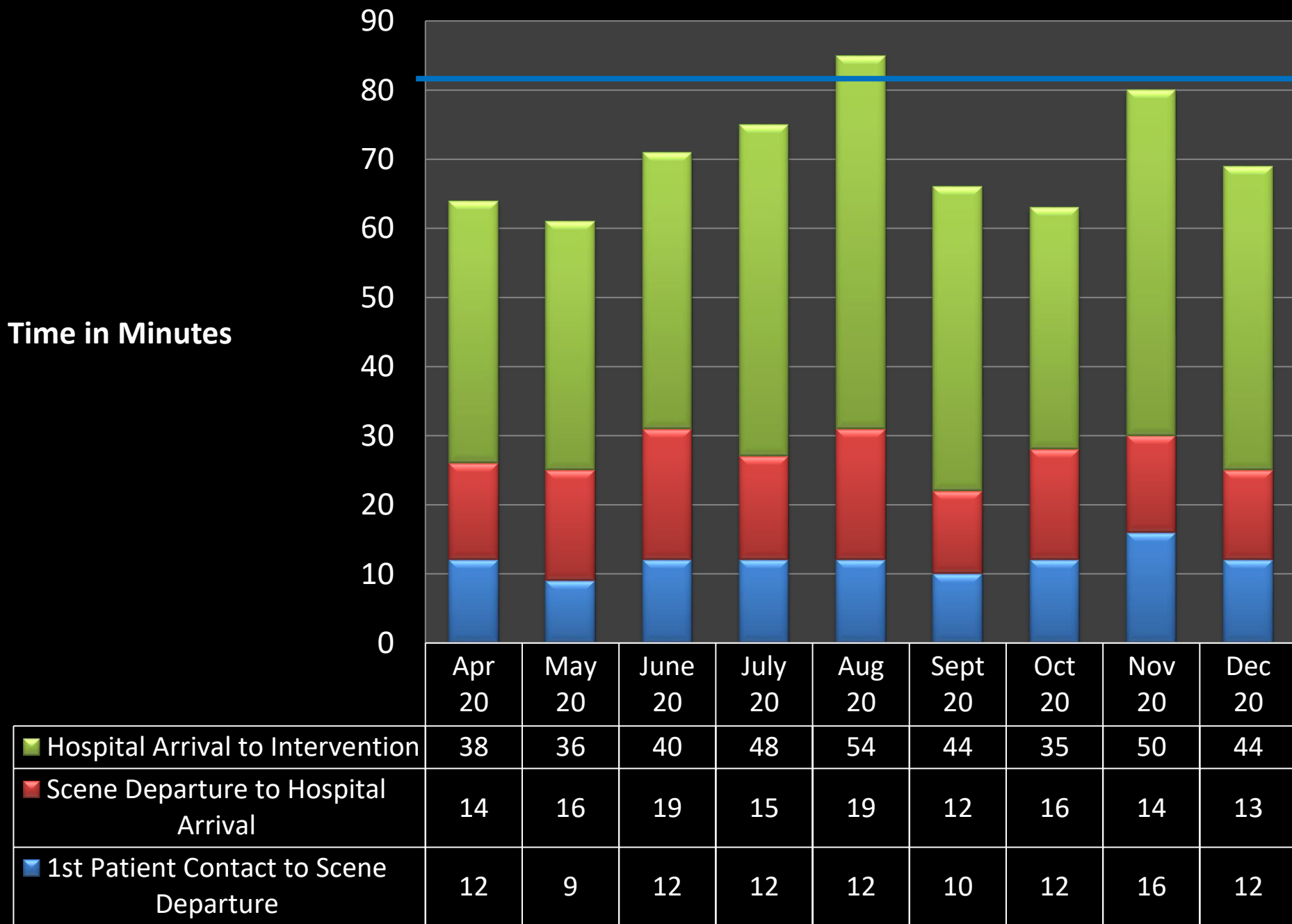
wakegov.com

# STEMI

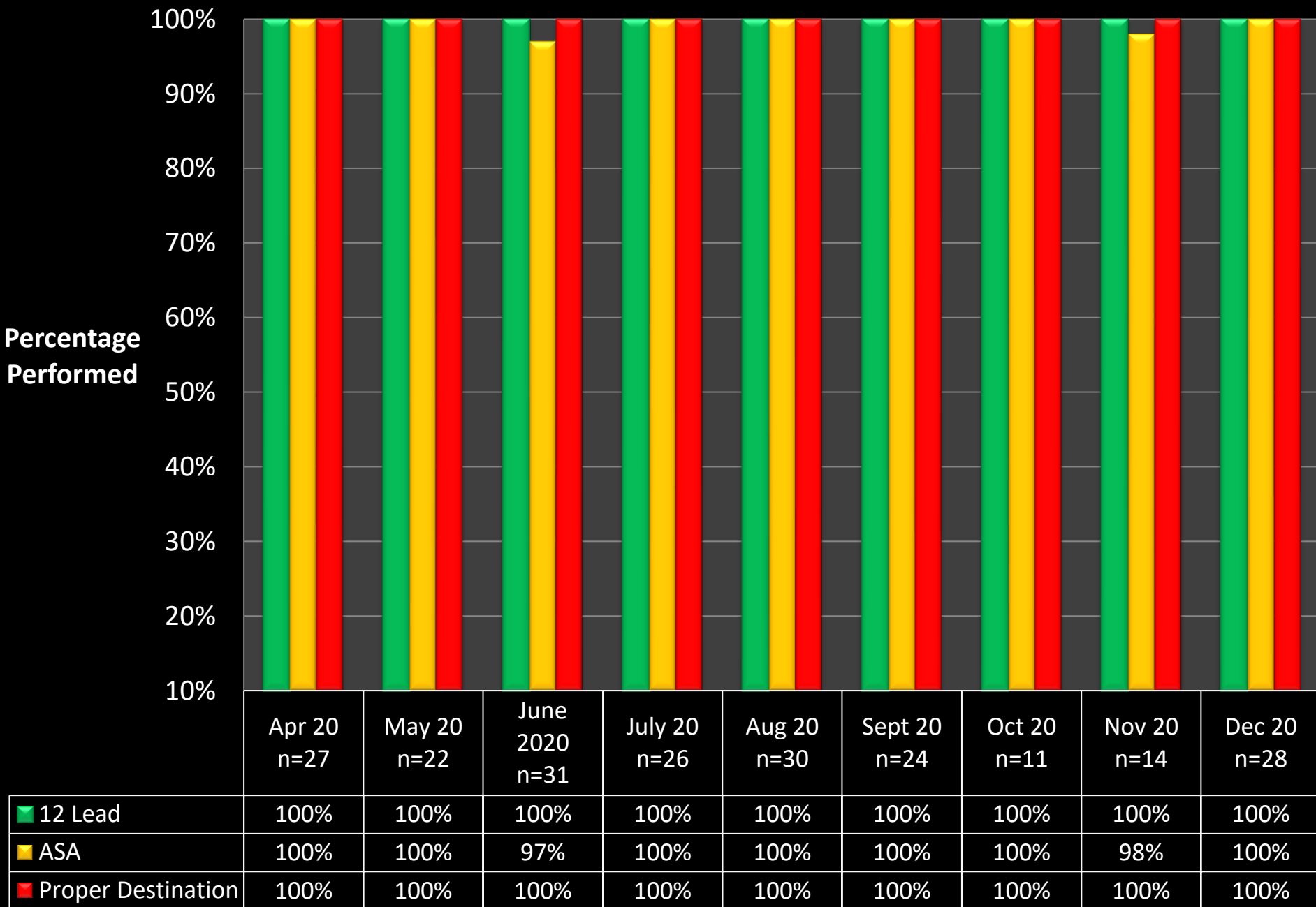


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# Mean Time for Patients with Confirmed STEMI; Combined for All Hospitals



## Patients Transported by EMS with Suspected or Confirmed STEMI



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

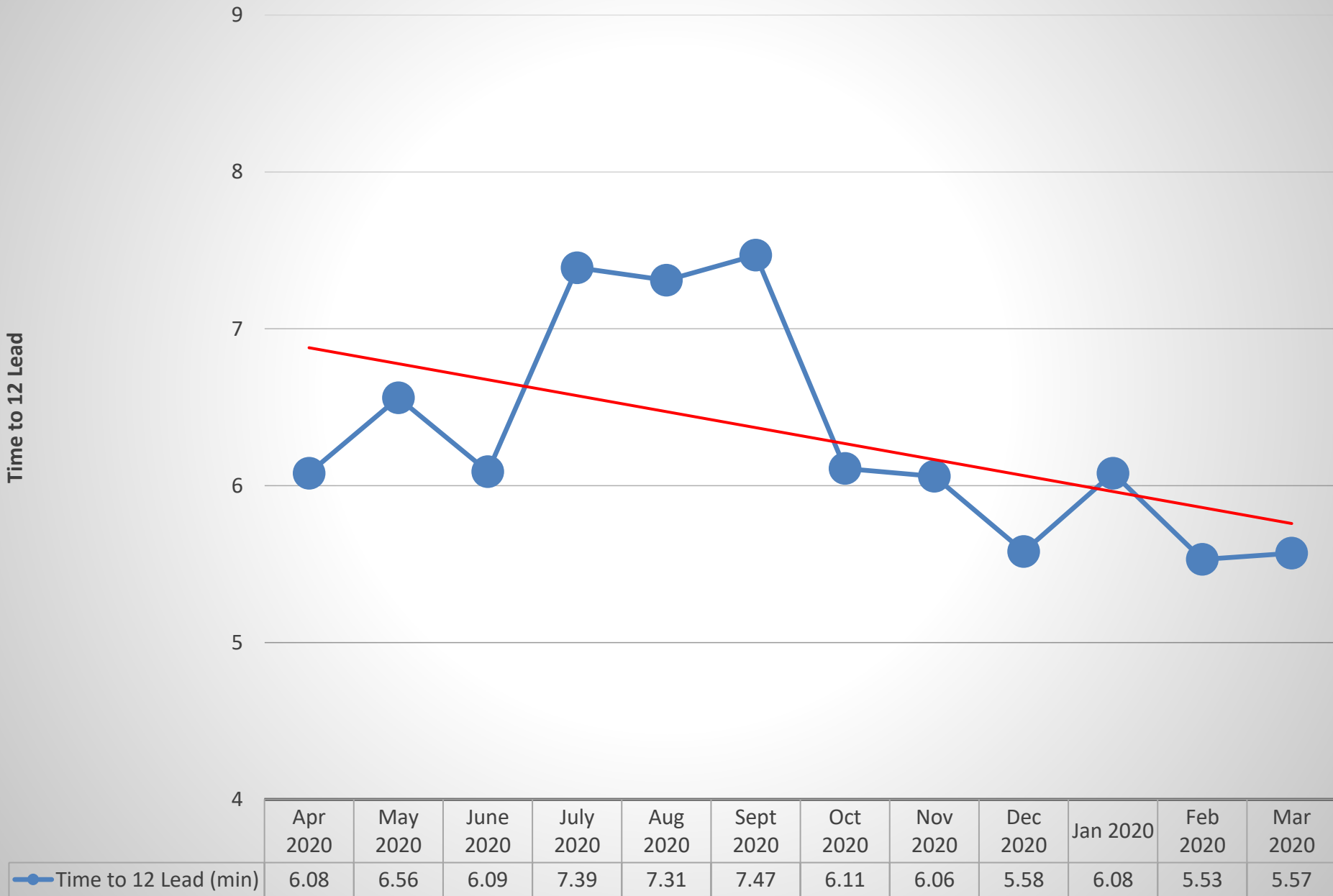


Percent Administered

	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

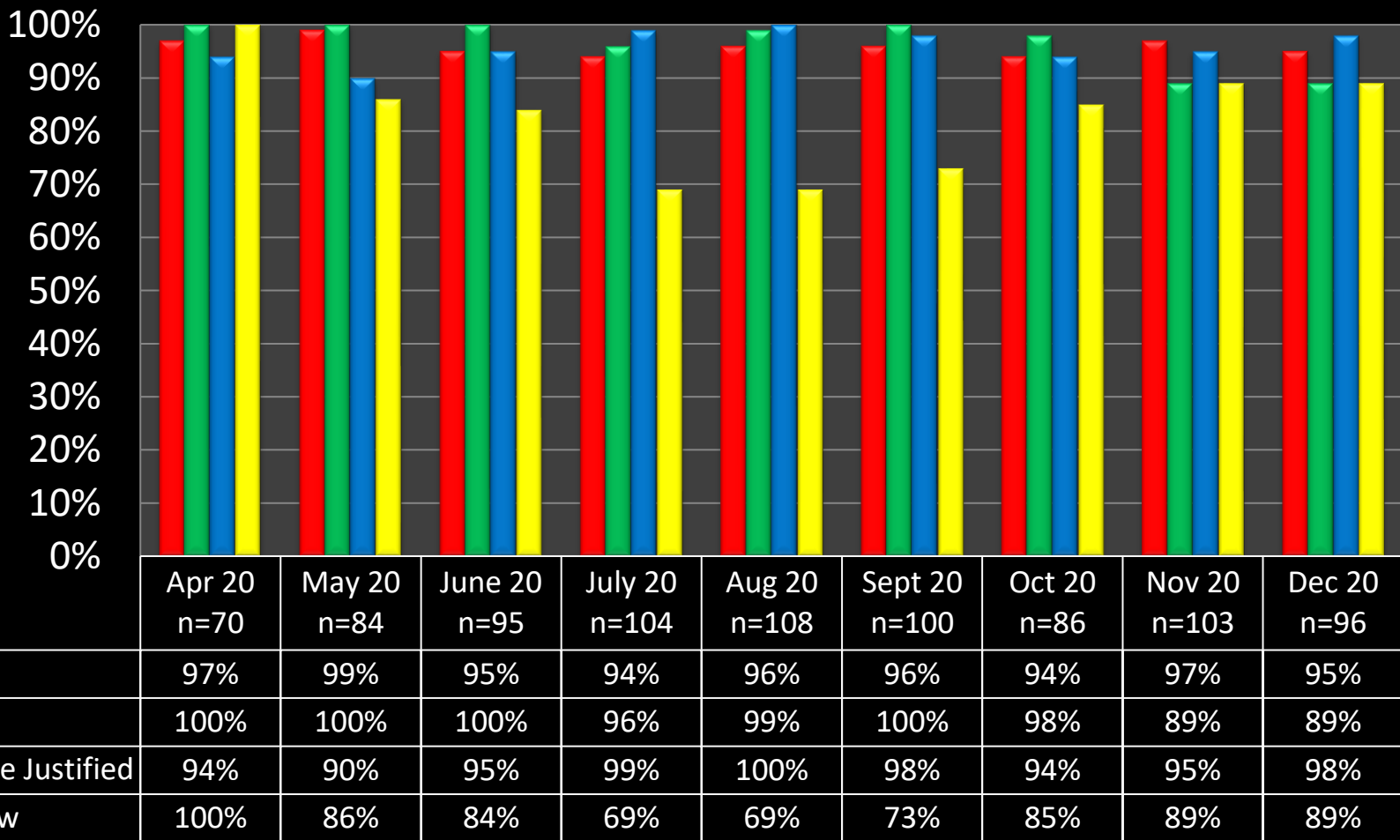


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# EMS Stroke Evidence Based Medicine Measures

## Patients Transported by EMS with Suspected or Confirmed Stroke

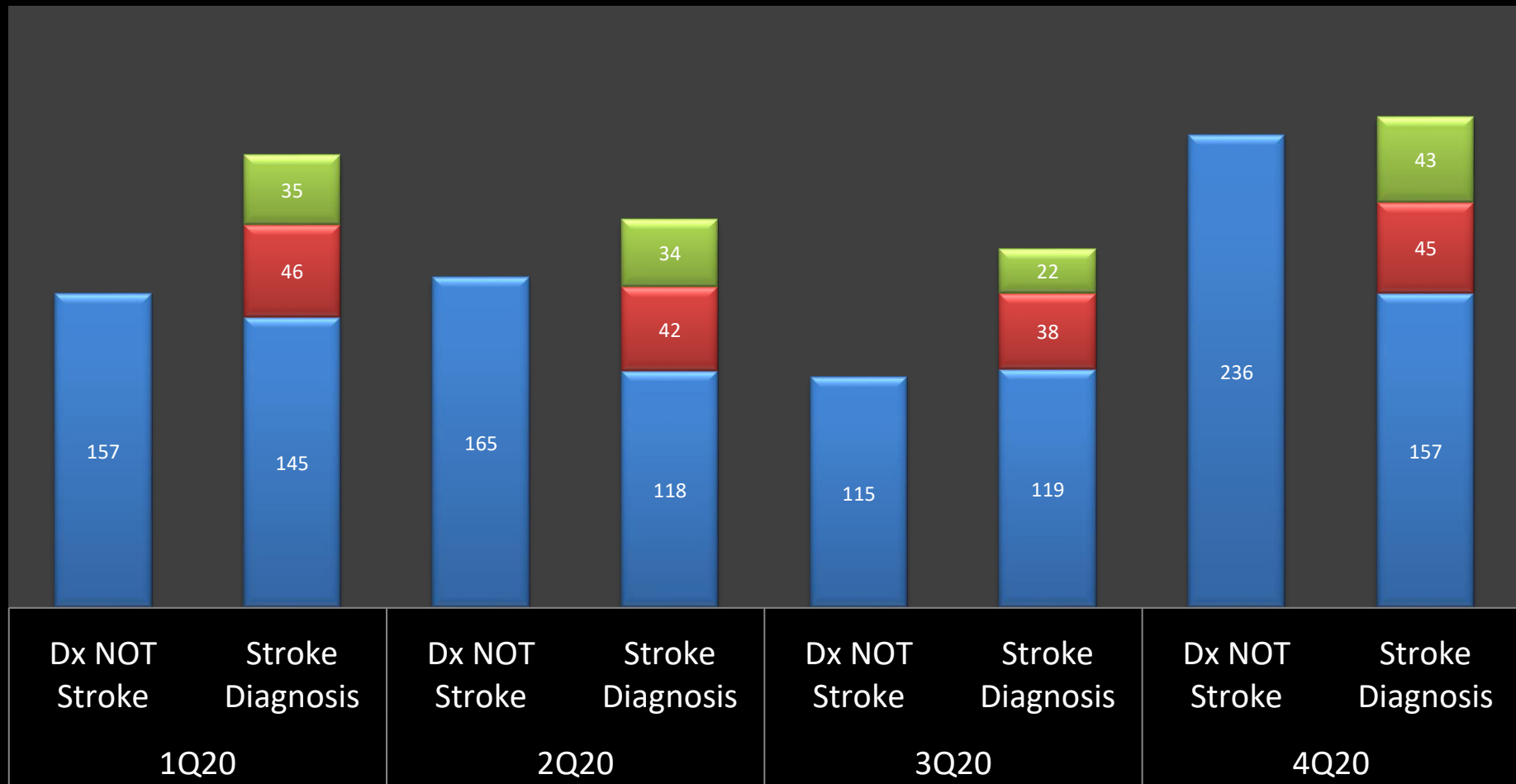
Percentage  
Performed





# Code Strokes by EMS taken to Wake County Hospitals

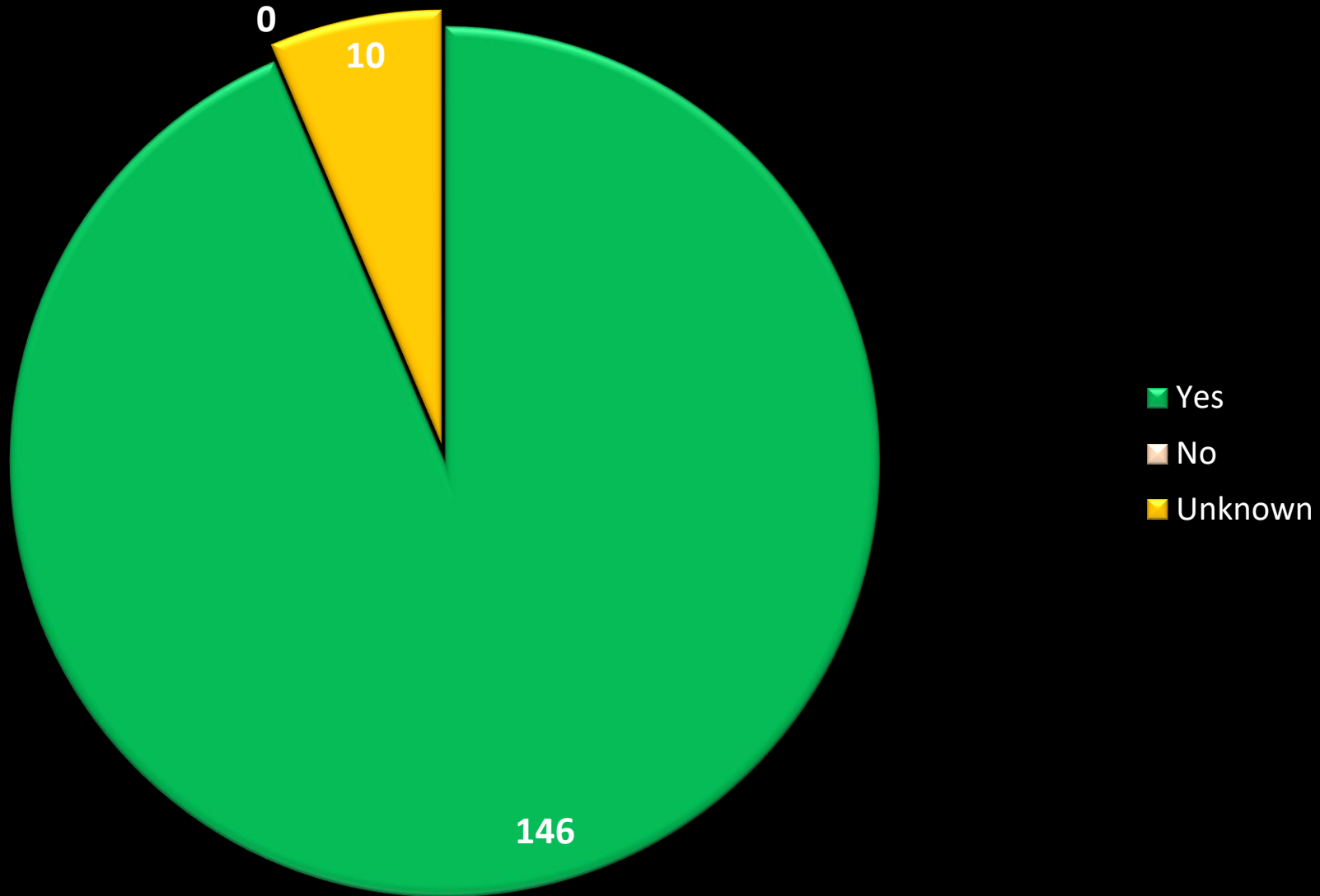
■ No TPA Given ■ TPA Given ■ ICH



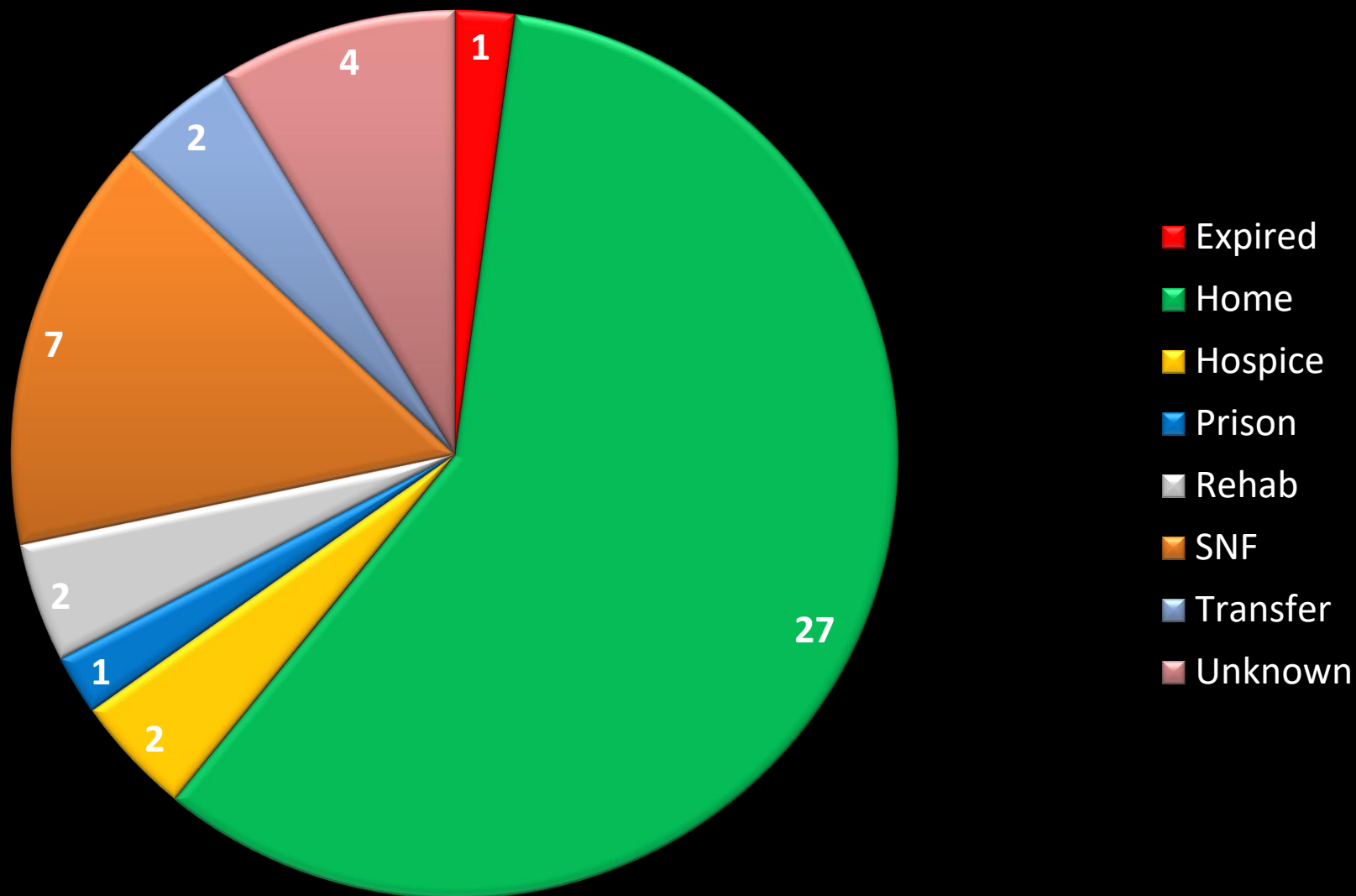
# Stroke Intervention

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

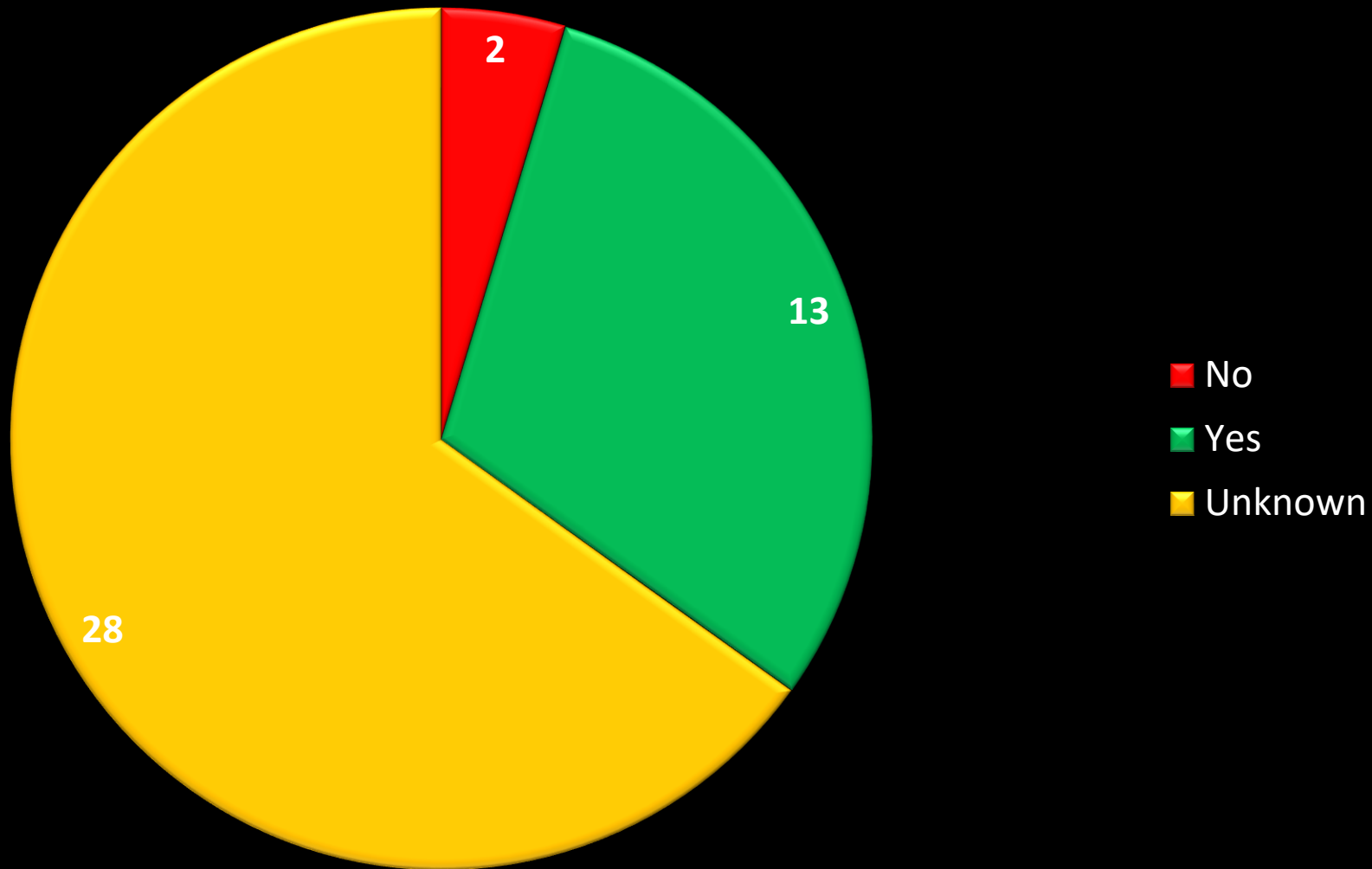
**All Hospitals 4<sup>th</sup> Qtr 2020**  
**Hospital DCDx Stroke that did not Receive tPA or Intervention**



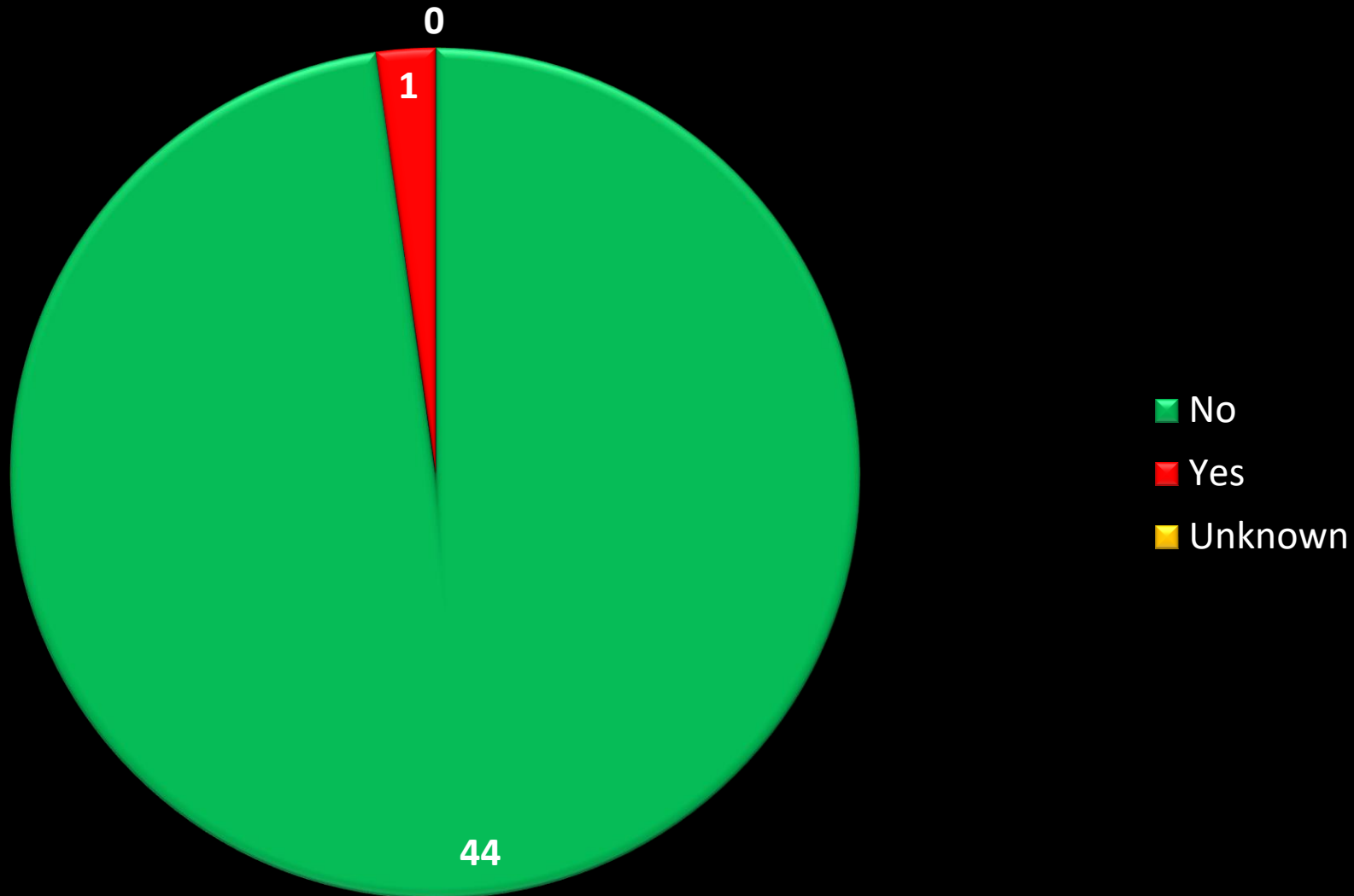
**All Hospitals 4<sup>th</sup> Qtr 2020**  
**Outcomes for Wake EMS Stroke Patients who Received tPA**



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

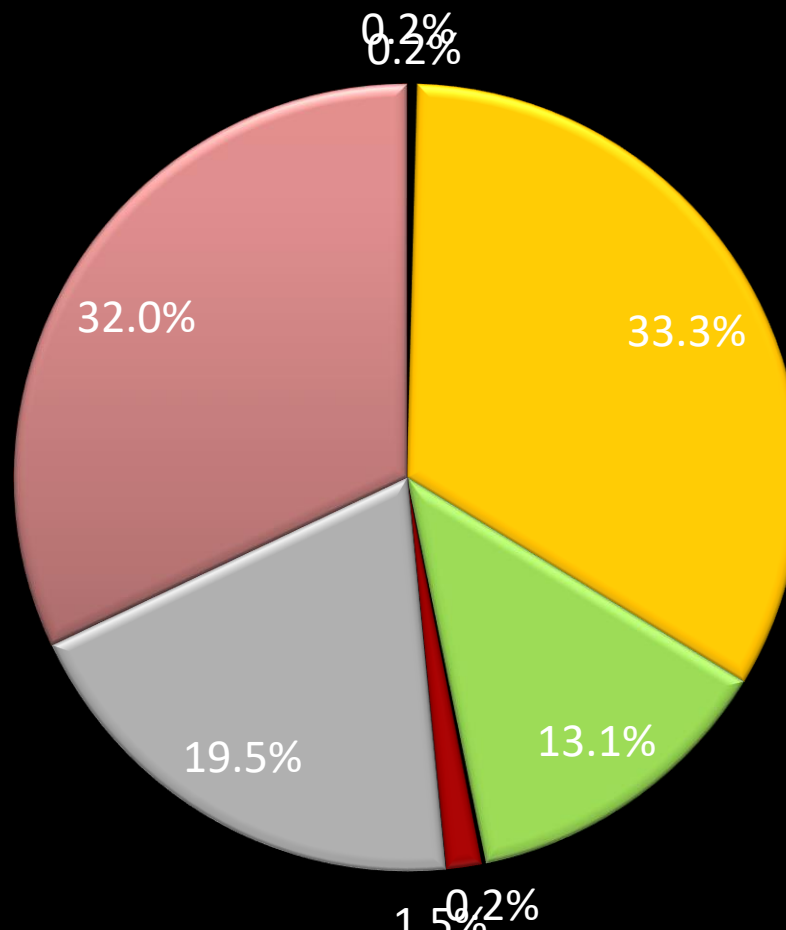


**All Hospitals 4<sup>th</sup> Qtr 2020**  
**Wake EMS Stroke Patients who Received tPA**  
**ICH Post Administration**



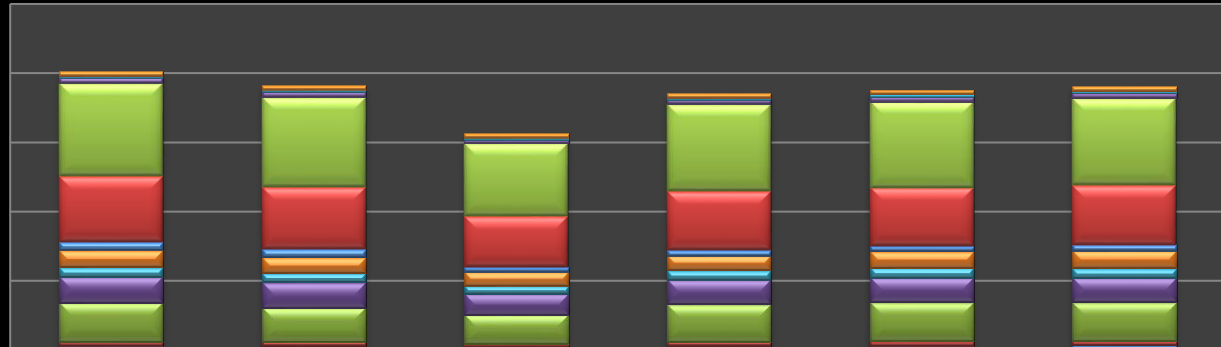
## Destination for Wake EMS Patients with Suspected or Confirmed Stroke 4<sup>th</sup> Qtr 2020

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



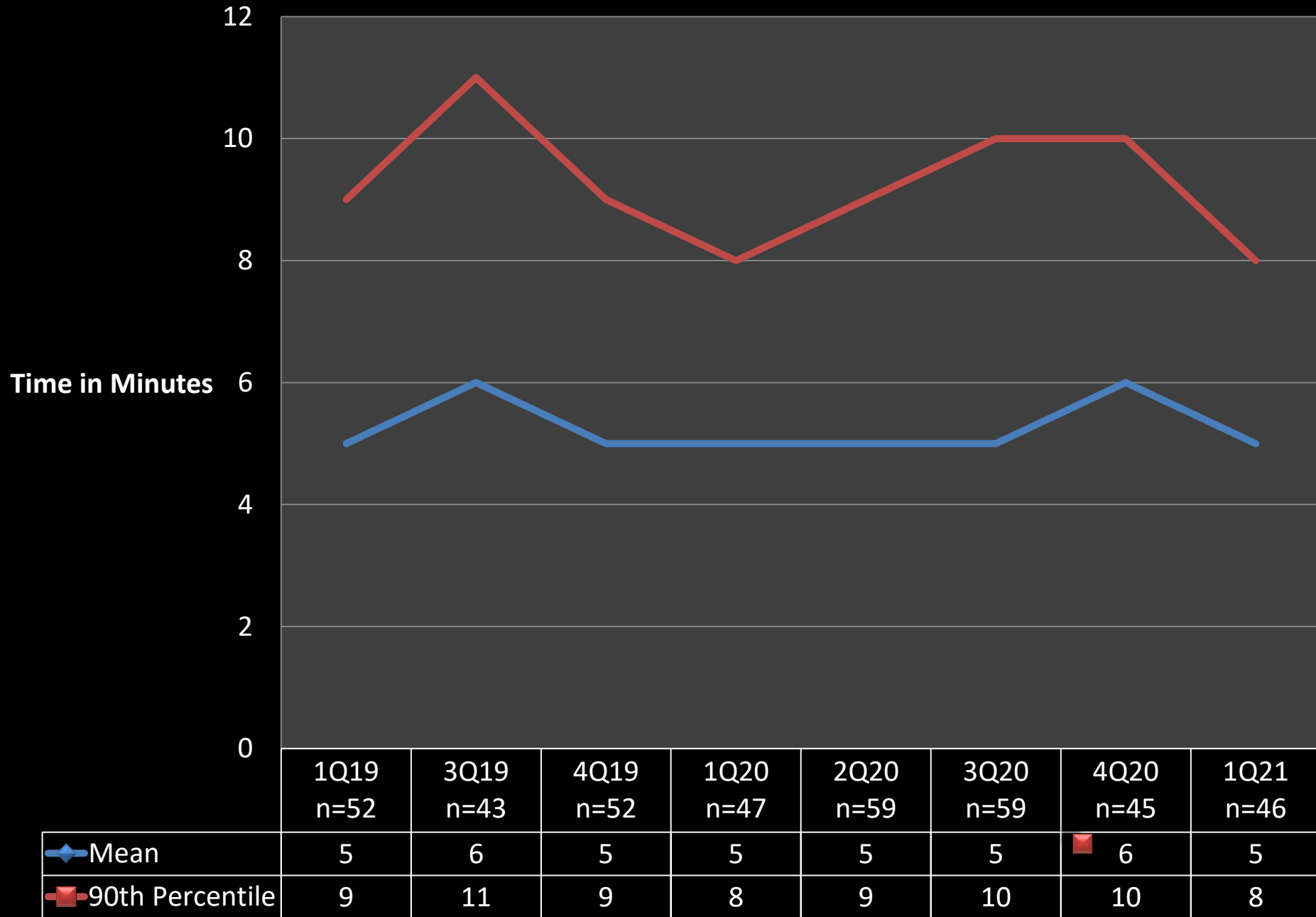
# Trauma



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# Wake EMS System

## Penetrating Trauma Scene Times



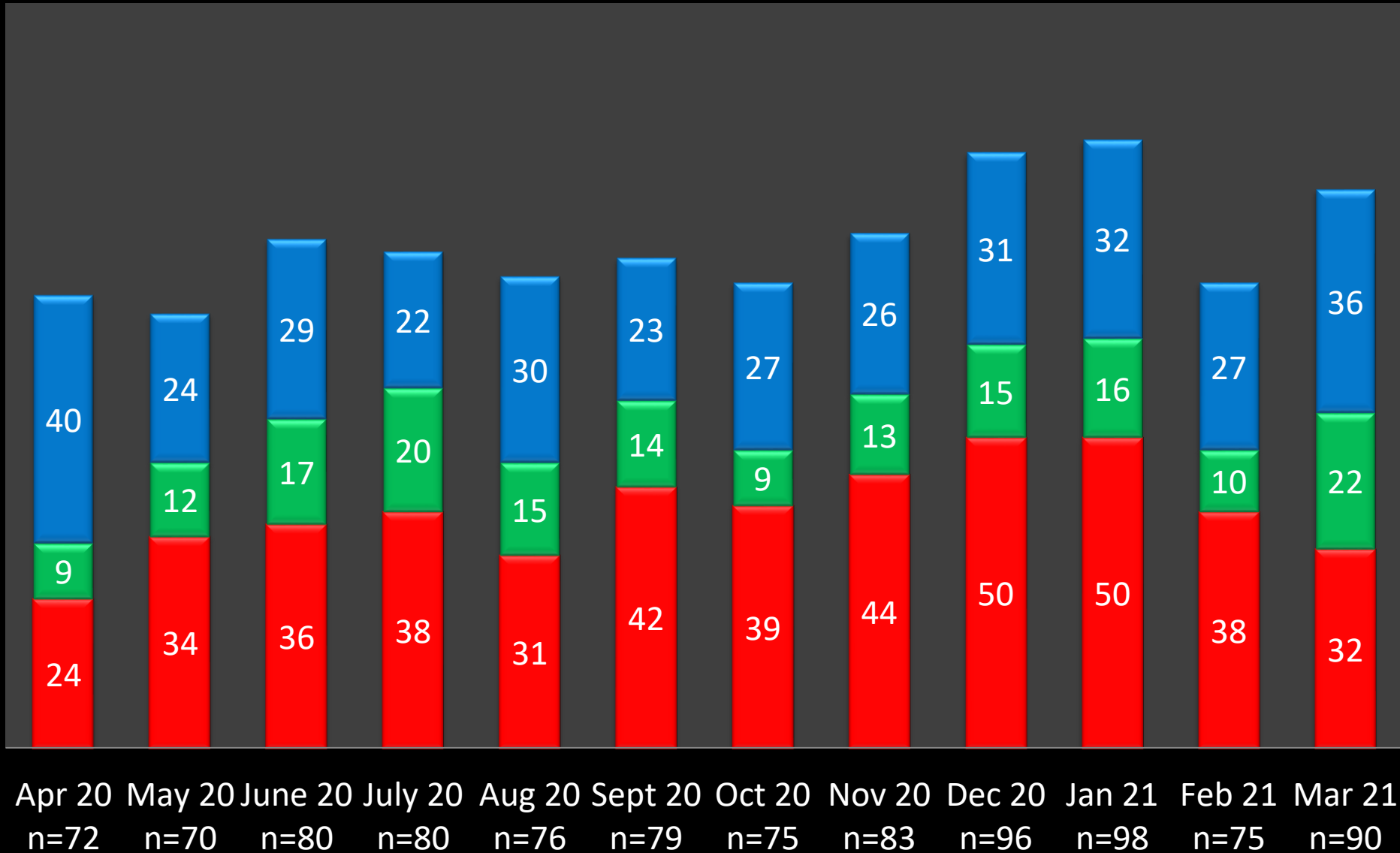
# Cardiac Arrest



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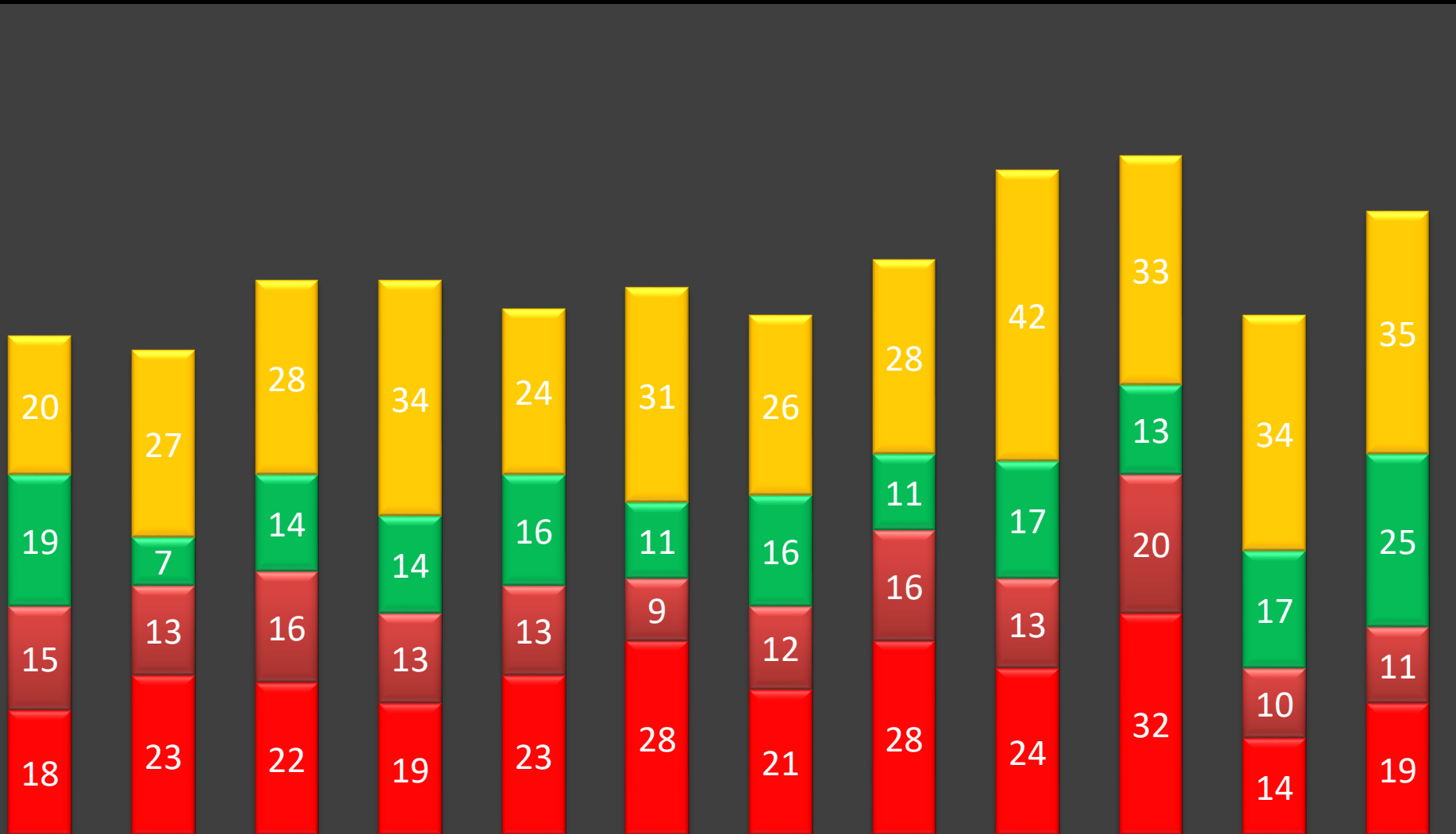
# Wake EMS Worked Cardiac Arrest

- 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



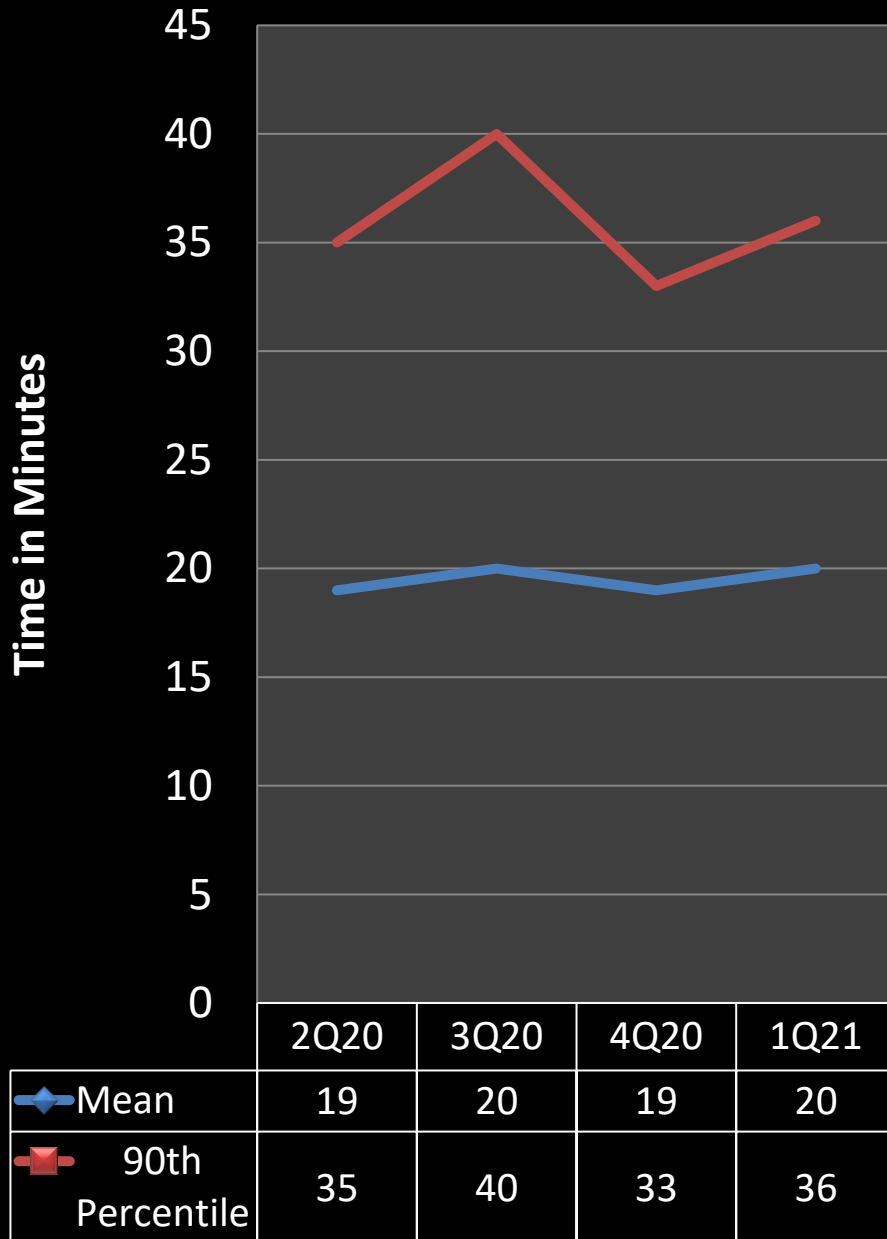
Apr 20   May 20   June 20   July 20   Aug 20   Sept 20   Oct 20   Nov 20   Dec 20   Jan 21   Feb 21   Mar 21  
n=72   n=70   n=80   n=80   n=76   n=79   n=75   n=83   n=96   n=98   n=75   n=90

# Respiratory Distress

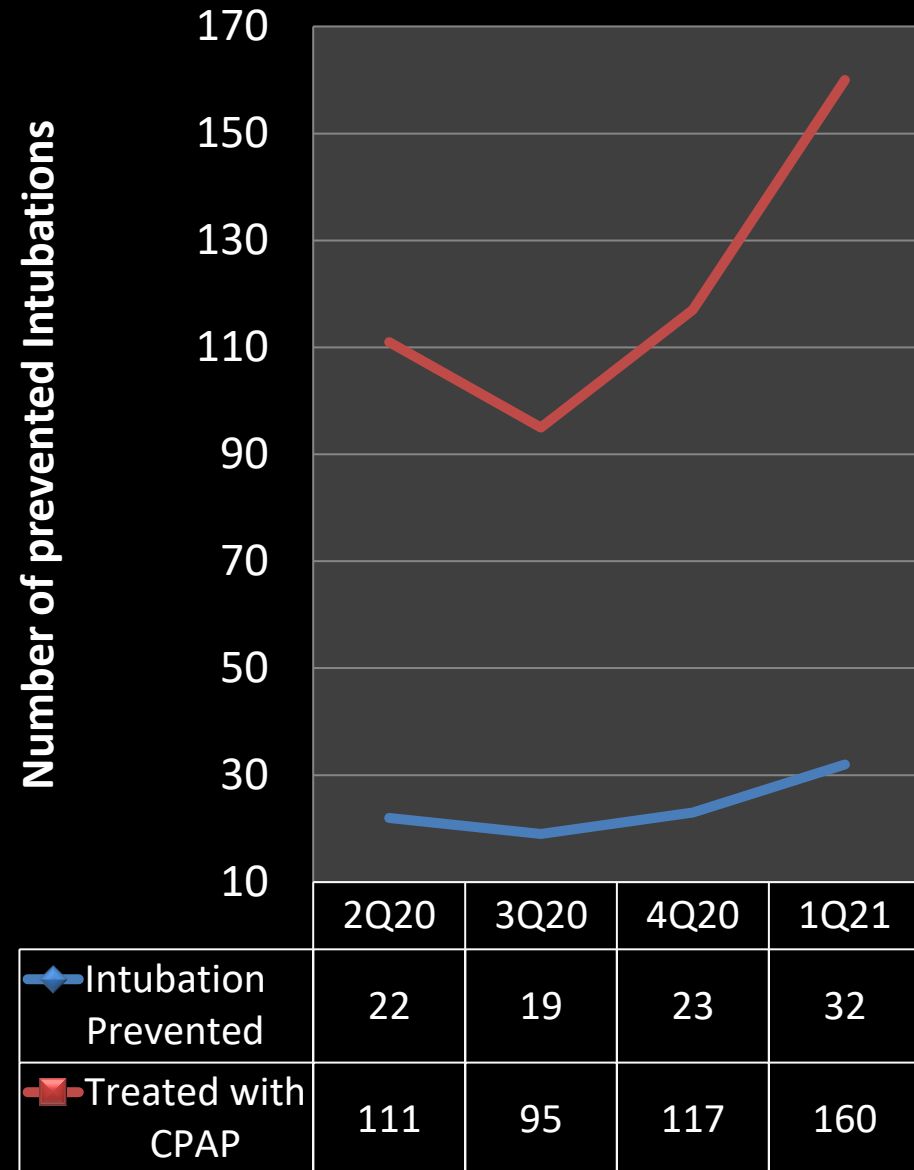


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## Wake EMS System CPAP Application Time



## Wake EMS System Intubation Prevented with CPAP



# Miscellaneous Reports

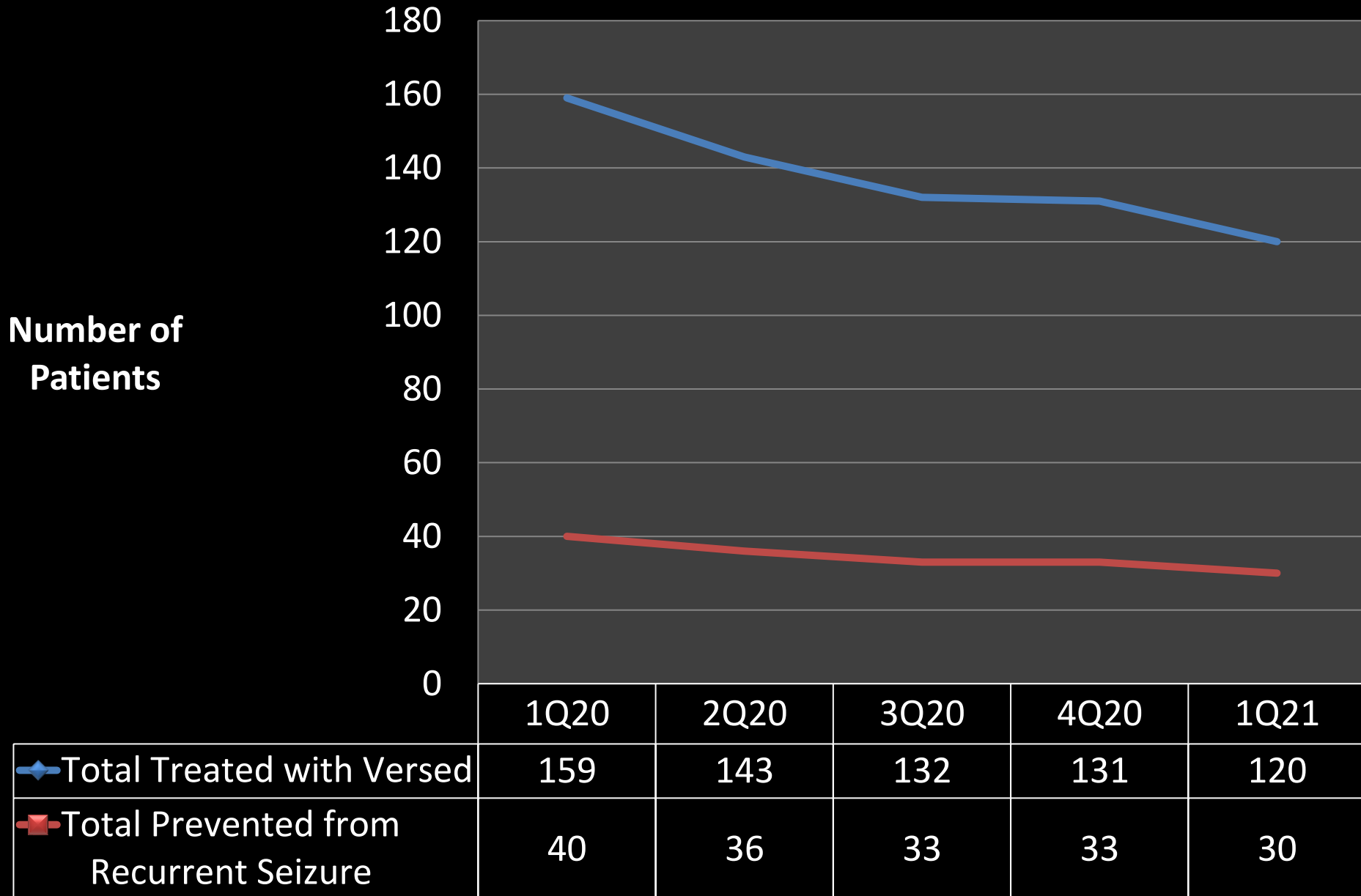


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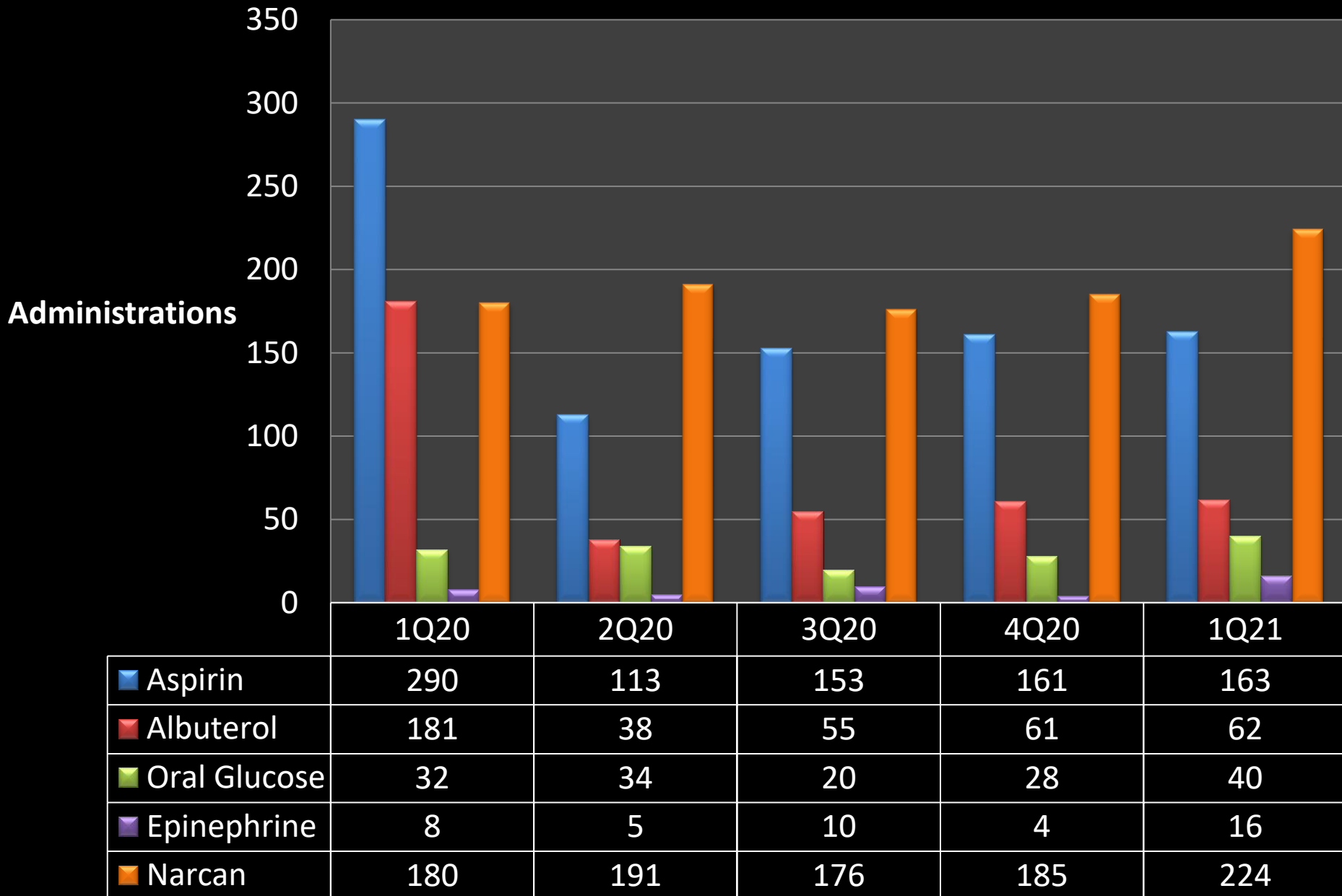


# Wake EMS System

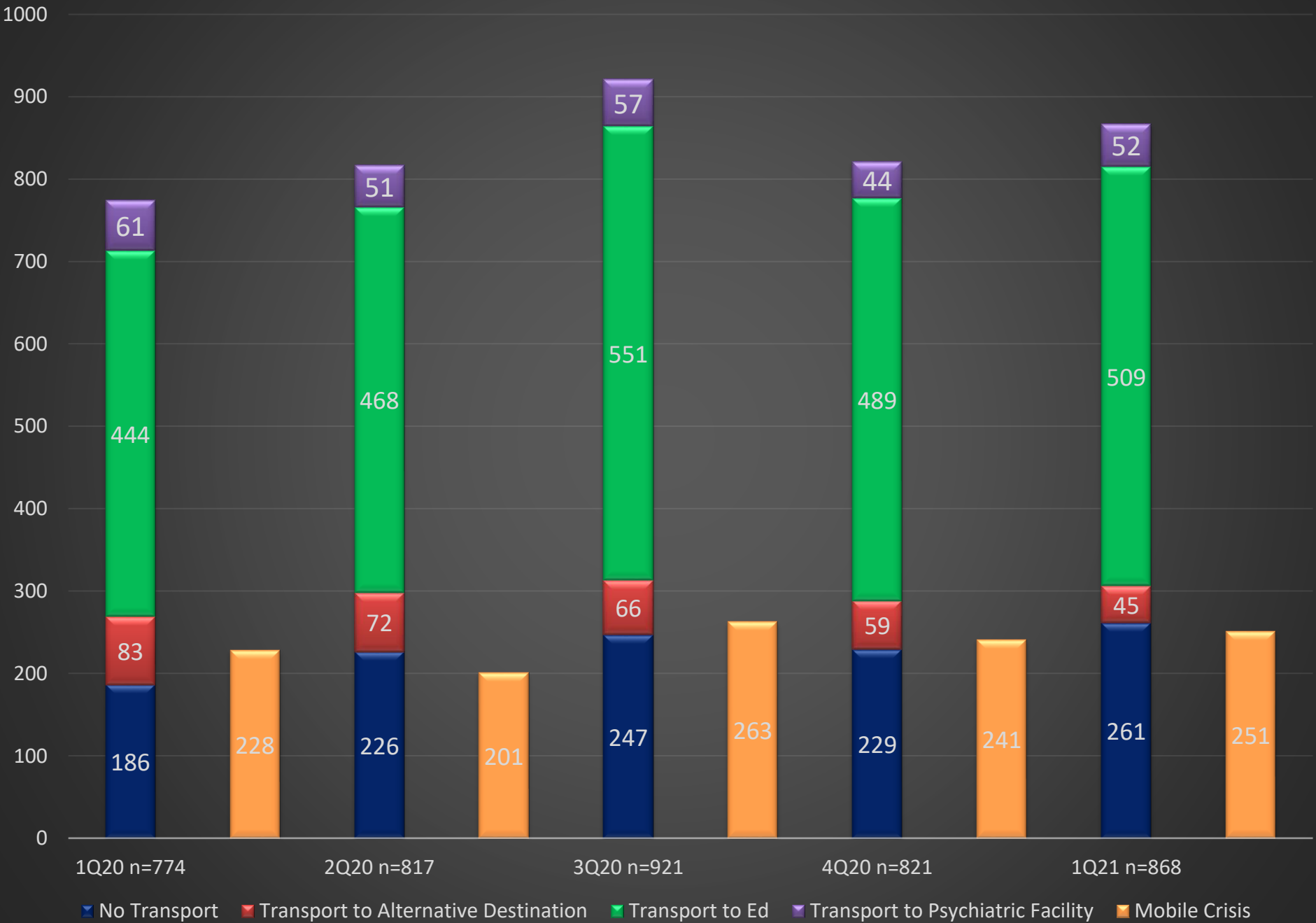
## Seizure Patients Treated with Versed



# Medications Administered by First Responders – Derived from EMS Documentation



# APP Alternate Destination



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

