

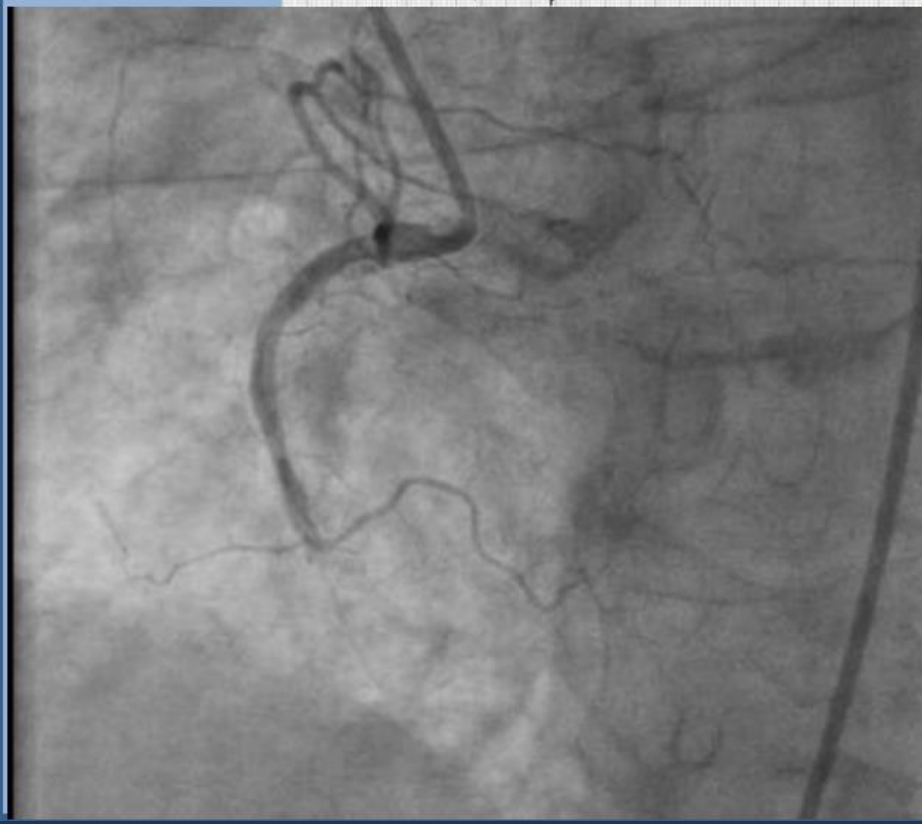
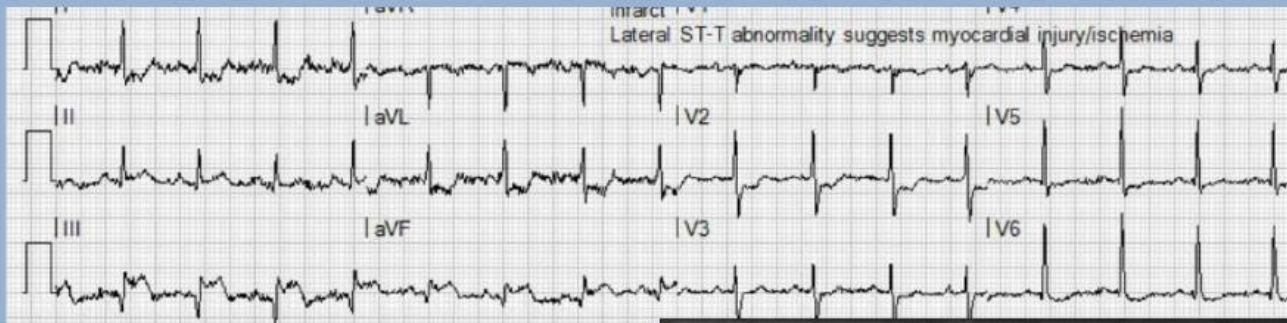


Peer Review Clinical Data

1ST QUARTER 2022



STEMI



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

Time in Minutes

100

90

80

70

60

50

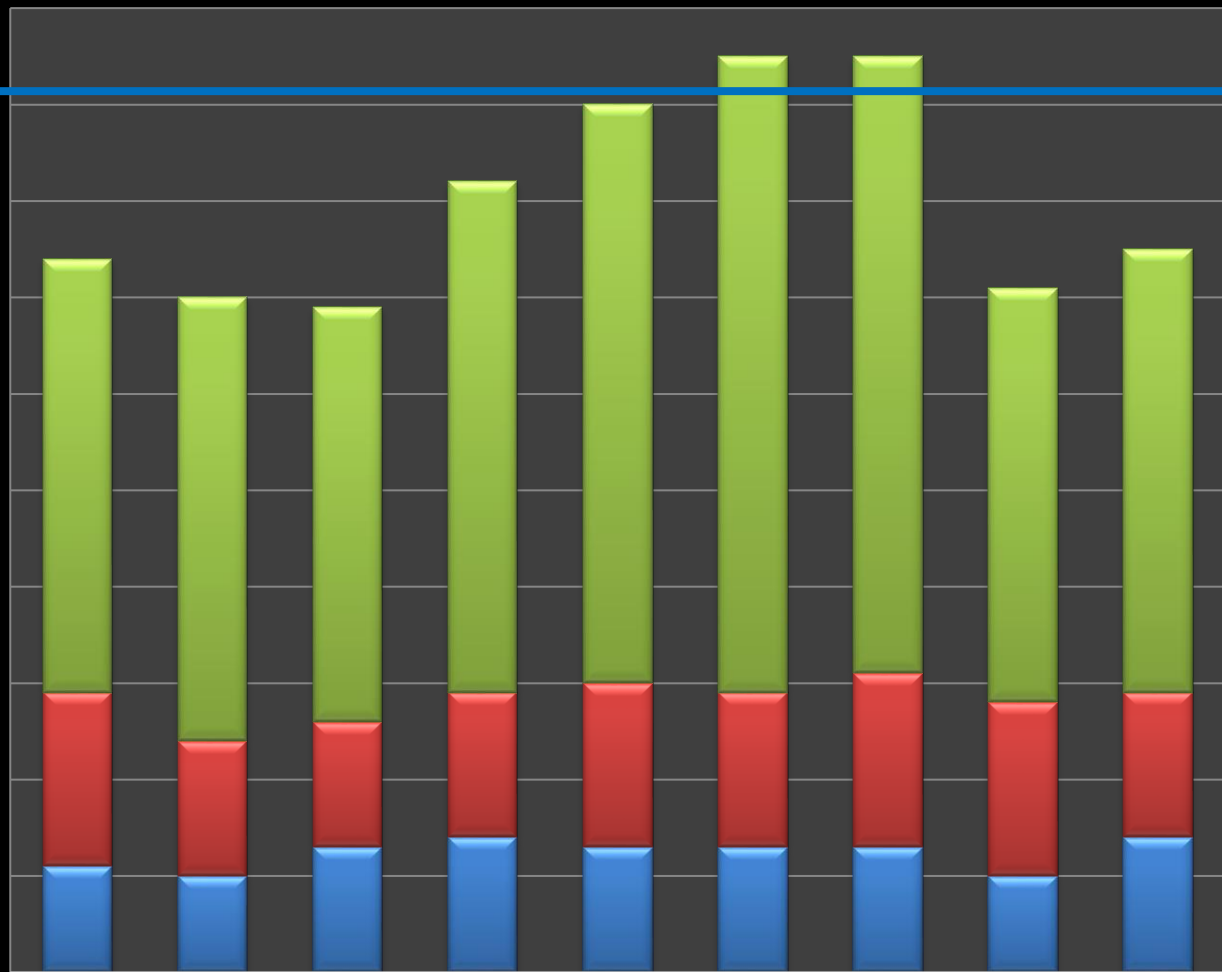
40

30

20

10

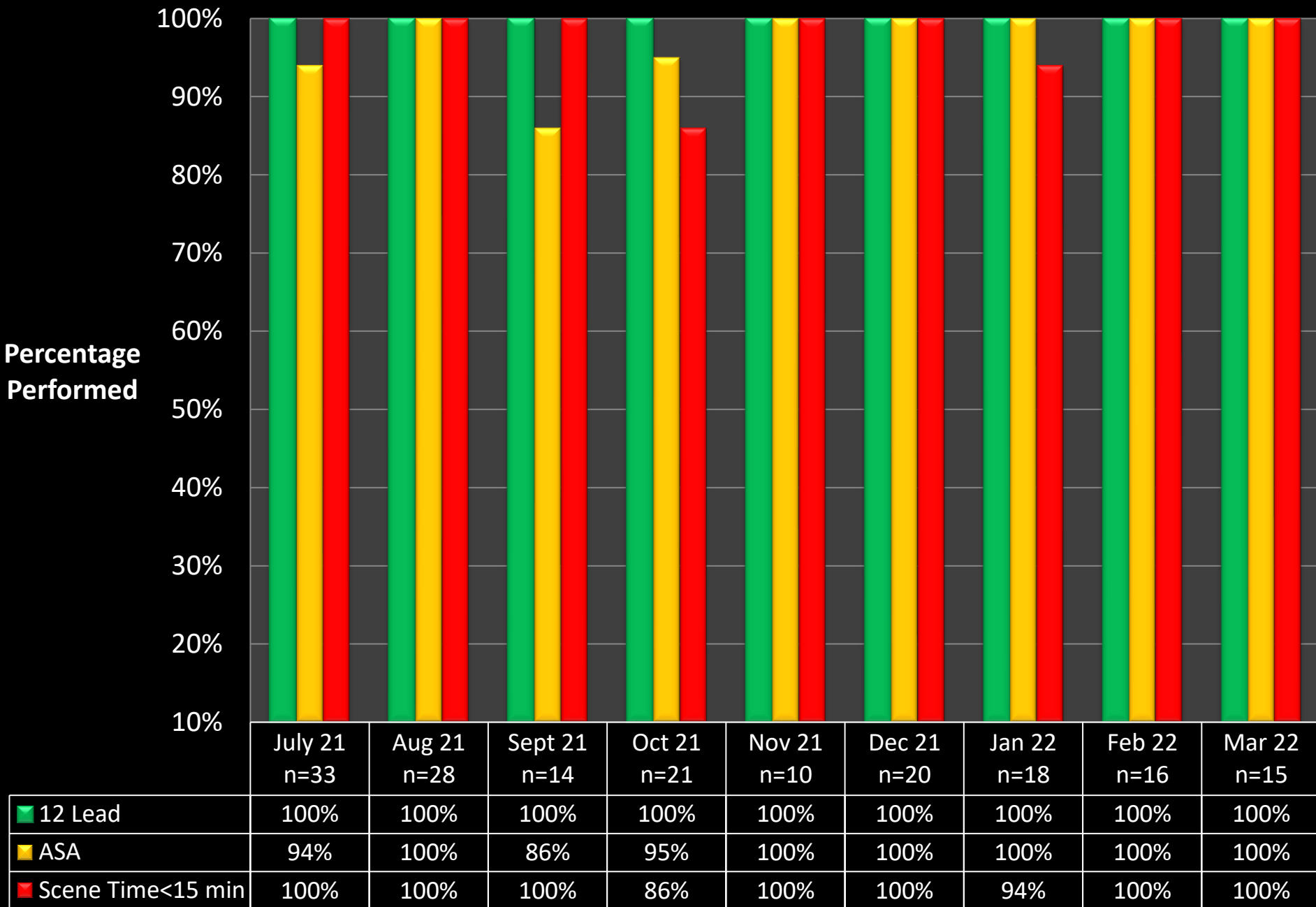
0



| | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|----|
| ■ Hospital Arrival to Intervention | 45 | 46 | 43 | 53 | 60 | 66 | 64 | 43 | 46 |
| ■ Scene Departure to Hospital Arrival | 18 | 14 | 13 | 15 | 17 | 16 | 18 | 18 | 15 |
| ■ 1st Patient Contact to Scene Departure | 11 | 10 | 13 | 14 | 13 | 13 | 13 | 10 | 14 |

EMS STEMI Evidence Based Medicine Measures

Patients Transported by EMS with Suspected or Confirmed STEMI



STEMI Overtriage - 1Q2022

Total STEMI Activations cancelled as reported by hospitals: n= 30

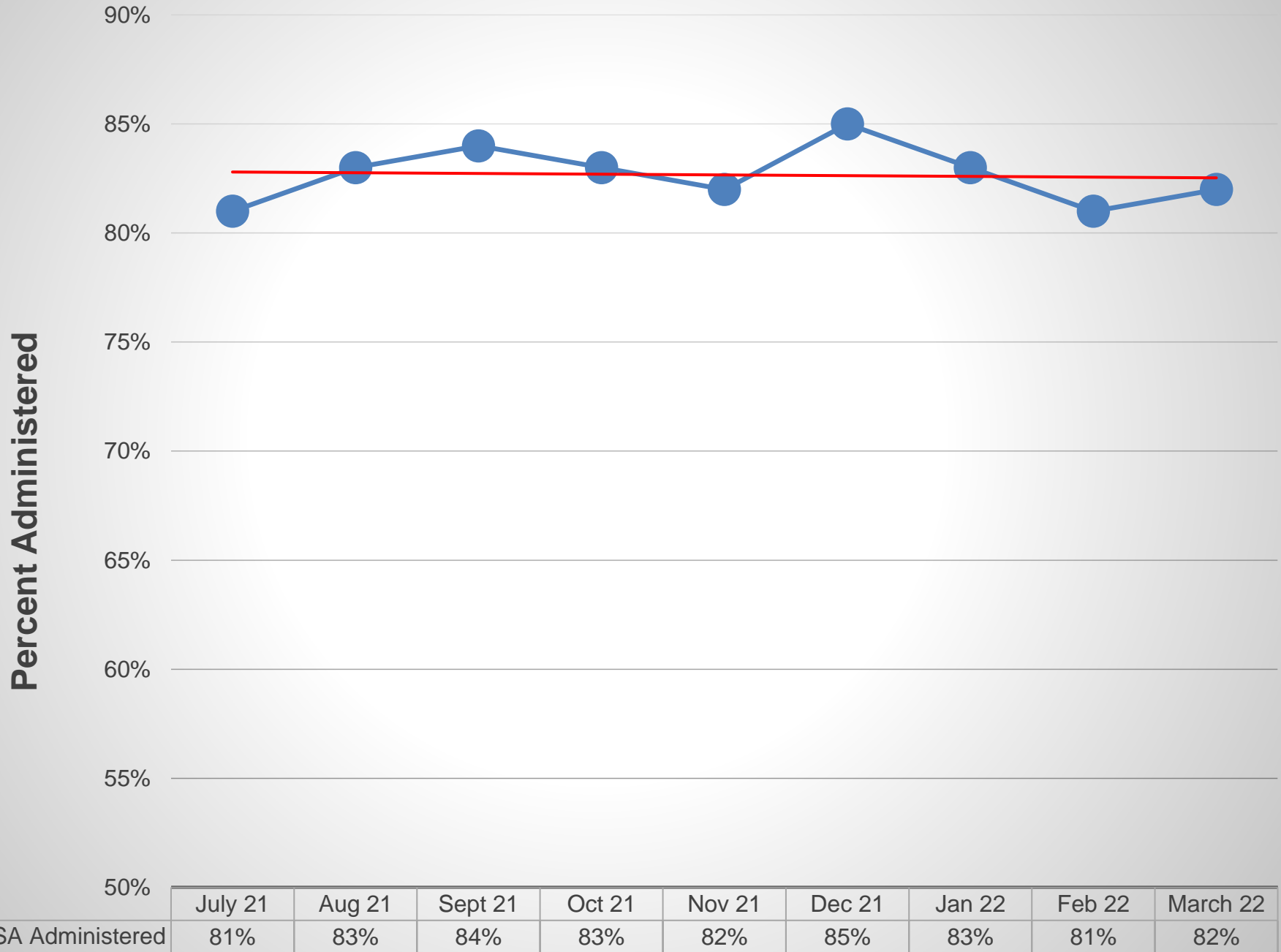
- Activations sent for consult only: n= 18
- EMS did not activate or send for consult: n= 4

STEMIs activated by EMS that were cancelled by Hospital n= 8

| Category | Reason Cancelled | Final Disposition = Triage Correctly | Final Disposition = Over Triage |
|---|------------------|---|------------------------------------|
| ED EKG Does Not Meet STEMI Criteria | 2 | 2 | 0 |
| ST Elevation Resolved | 3 | 2 | 1 |
| Expired | 2 | 2 | 0 |
| STEMI Imposter (LVH, J Point Elev., Etc) | 0 | 0 | 0 |
| Other | 1 | 1 | 0 |
| | | | <1% Overtriage Rate |

Wake EMS

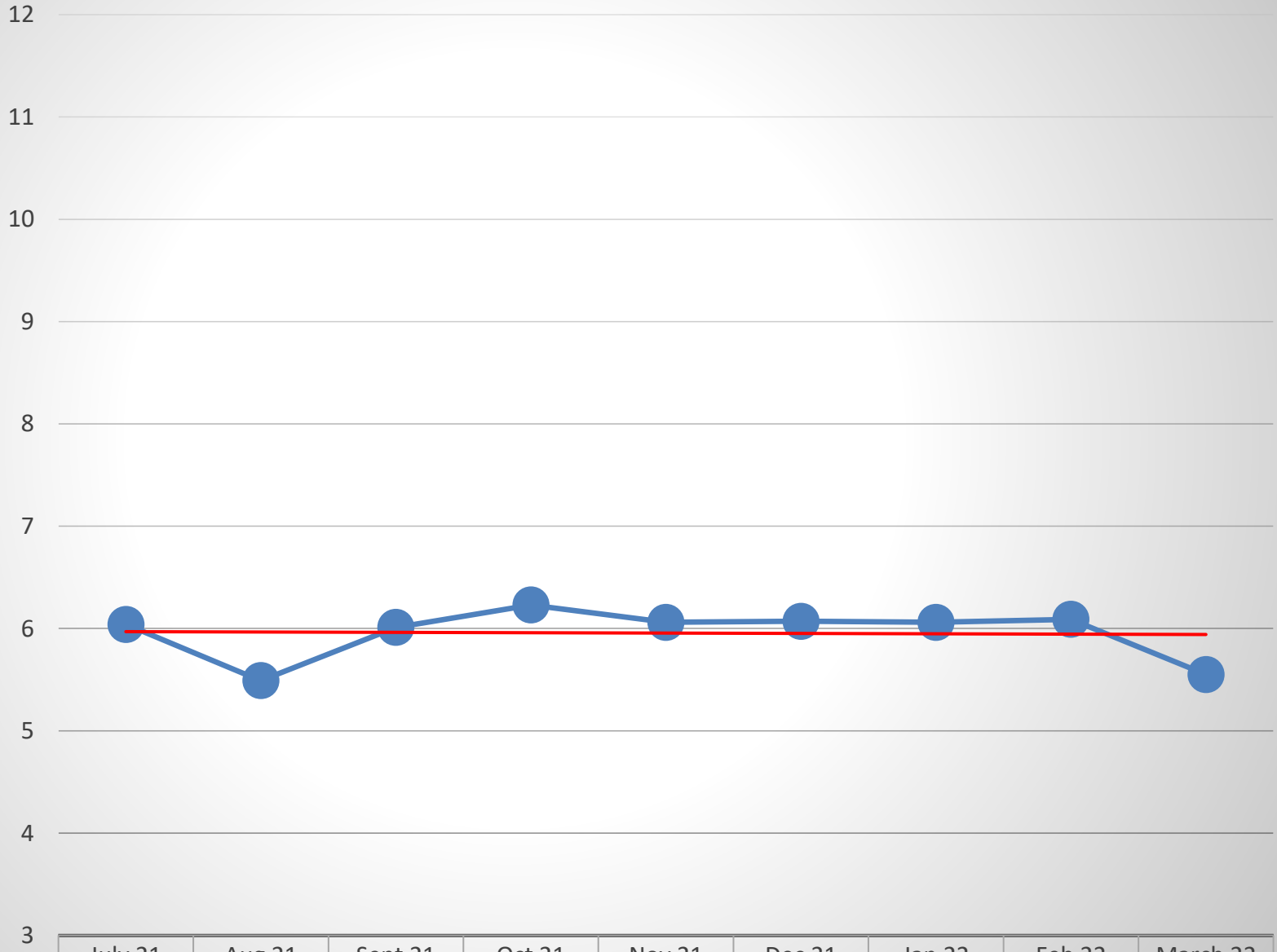
Chest Pain Patient Age>35 Who Had ASA Administered



Wake EMS

Chest Pain Patient Contact to 12lead Time in Minutes

Time to 12 Lead



Time to 12 Lead (min)

July 21

Aug 21

Sept 21

Oct 21

Nov 21

Dec 21

Jan 22

Feb 22

March 22

6.04

5.49

6.01

6.23

6.06

6.07

6.06

6.09

5.55

Wake EMS
Chest Pain Patient Contact to 12lead Time in Minutes
All Groups

| | Jul '21 | Aug '21 | Sep '21 | Oct '21 | Nov '21 | Dec '21 | Jan '22 | Feb '22 | Mar '22 | Total |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| 00:00 - 04:59 | 235 | 245 | 214 | 197 | 167 | 209 | 203 | 187 | 216 | 1,873 |
| 5:00 - 7:59 | 139 | 122 | 125 | 149 | 119 | 152 | 137 | 115 | 137 | 1,195 |
| 8:00 - 9:59 | 40 | 39 | 28 | 43 | 29 | 44 | 53 | 42 | 57 | 375 |
| 10:00 - 11:59 | 24 | 13 | 26 | 20 | 20 | 24 | 22 | 22 | 15 | 186 |
| 12:00 - 14:59 | 15 | 18 | 13 | 22 | 12 | 17 | 21 | 13 | 19 | 150 |
| 15:00 - 19:59 | 8 | 6 | 8 | 10 | 9 | 10 | 8 | 6 | 5 | 70 |
| 20:00 - 24:59 | 2 | 4 | 2 | 3 | - | 3 | 1 | 5 | 3 | 23 |
| 25:00 - 29:59 | 5 | 2 | 2 | 4 | 2 | 1 | 1 | 2 | - | 19 |
| Total | 468 | 449 | 418 | 448 | 358 | 460 | 446 | 392 | 452 | 3,891 |

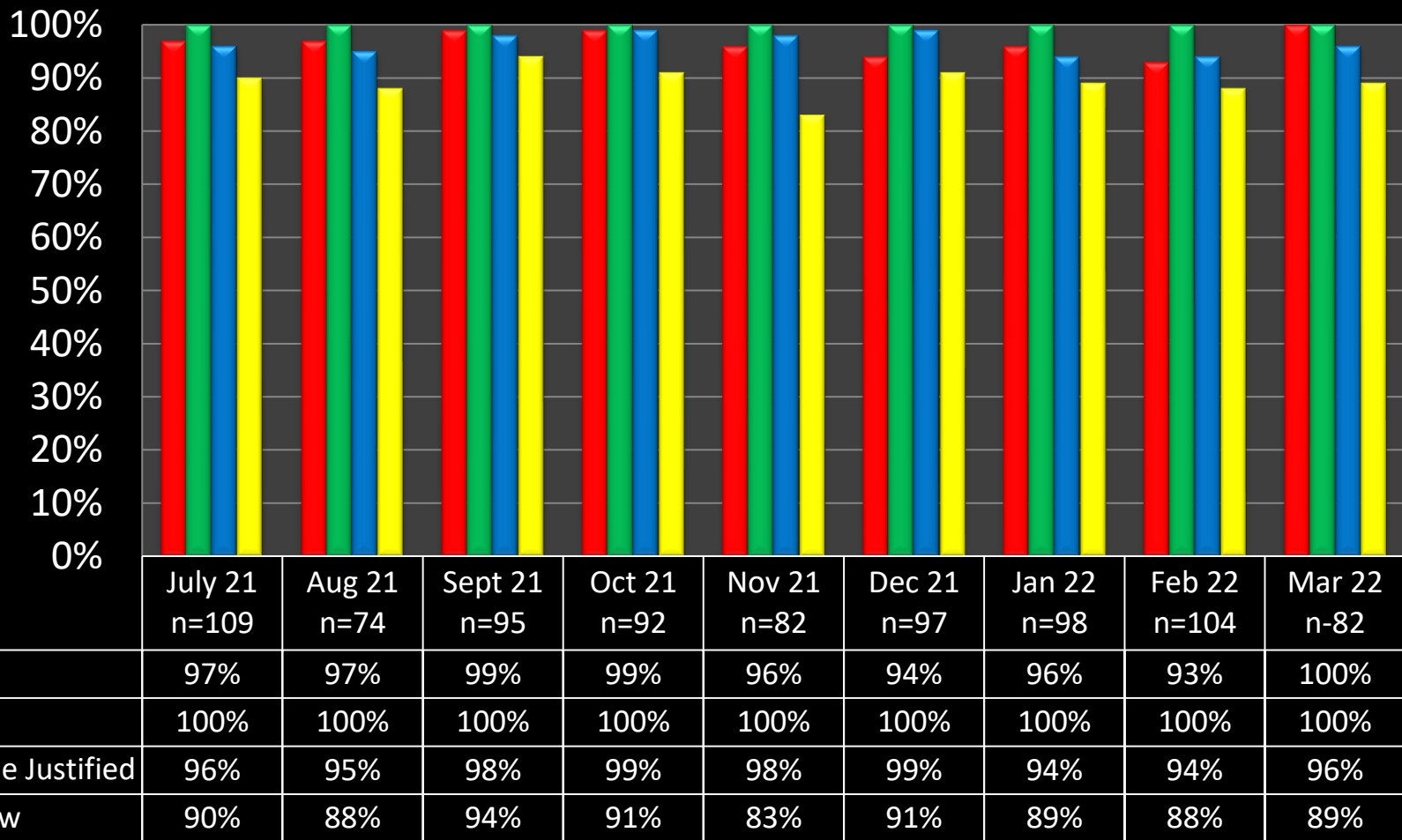
STROKE

Prompt
Compassionate
Clinically Excellent Care

EMS Stroke Evidence Based Medicine Measures

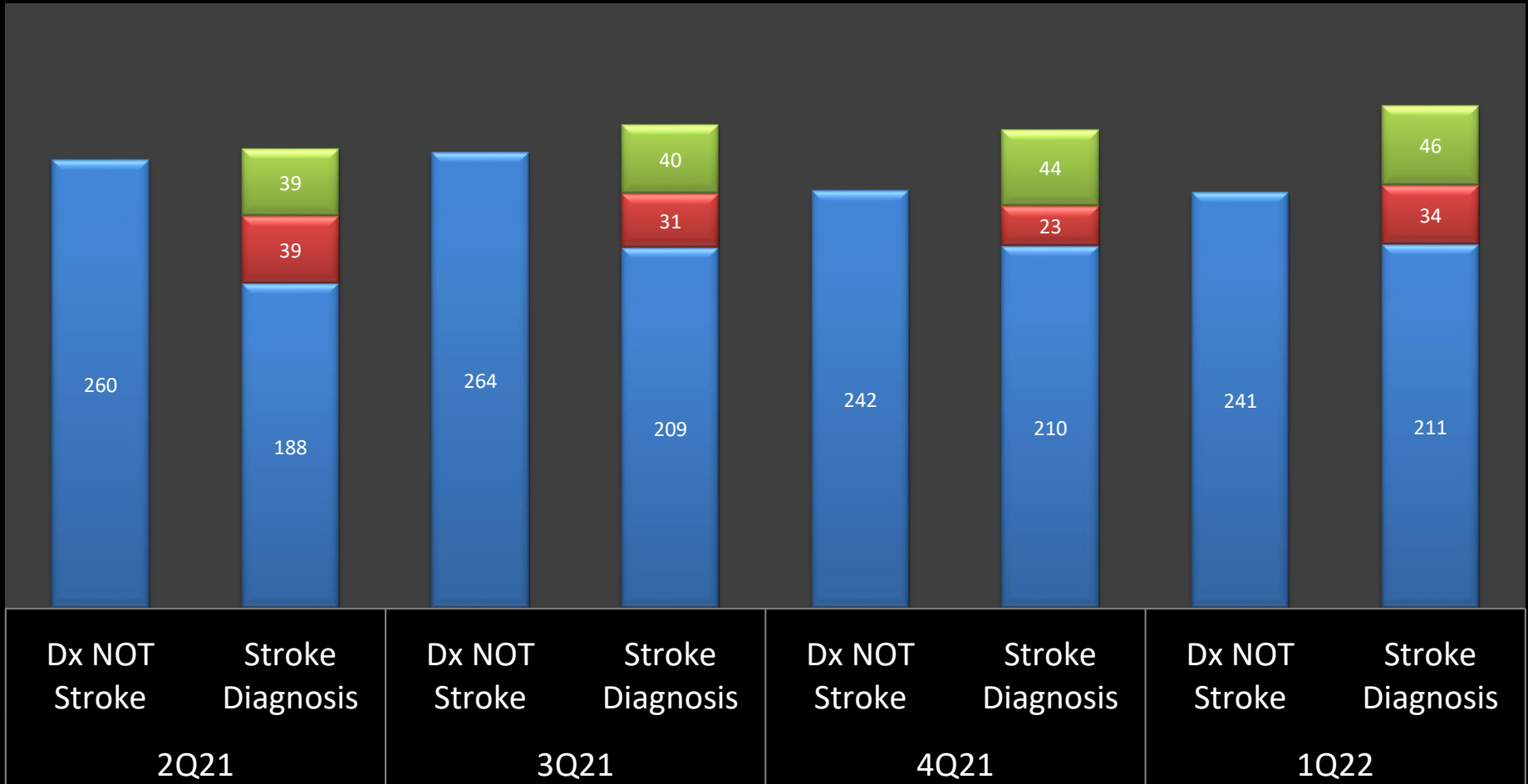
Patients Transported by EMS with Suspected or Confirmed Stroke

Percentage
Performed



Code Strokes by EMS taken to Wake County Hospitals

■ No TPA Given ■ TPA Given ■ ICH

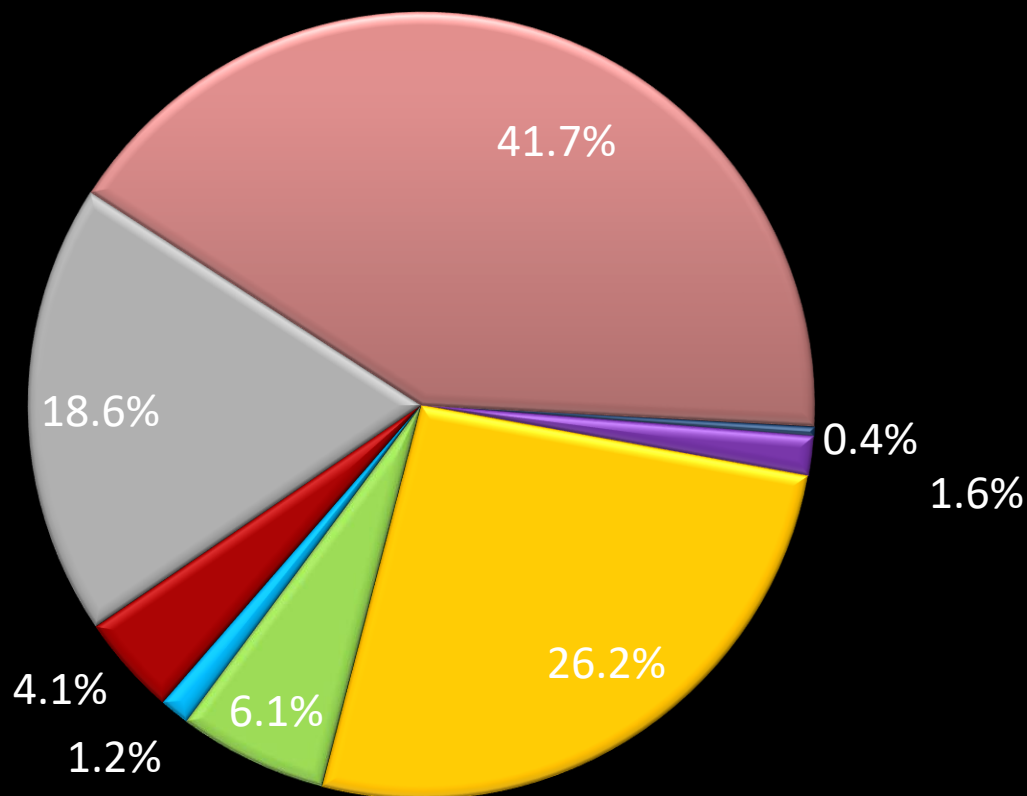


Stroke Intervention

| Date | Initial Hospital | 2nd Receiving Hospital | Intervention Type | Intervention Performed | Initial ED to Puncture Time | TICI |
|-----------|------------------|------------------------|-------------------|------------------------|-----------------------------|------|
| 03-Jan-22 | Cary-WakeMed | WakeMed Cary | tPA-IA | Thrombectomy | 1:43:21 | 2a |
| 22-Feb-22 | Cary-WakeMed | WakeMed Cary | tPA-IA | Thrombectomy | 2:04:28 | 3 |
| 02-Mar-22 | Cary-WakeMed | WakeMed Cary | IA | Thrombectomy | 1:16:13 | 2b |
| 10-Mar-22 | Cary-WakeMed | WakeMed Cary | tPA-IA | Thrombectomy | 2:25:37 | 3 |
| 30-Mar-22 | Cary-WakeMed | WakeMed Cary | IA | Thrombectomy | 1:04:02 | 2b |
| 04-Jan-22 | Rex Healthcare | Rex | tPA-IA | Thrombectomy | 1:21:56 | 3 |
| 22-Jan-22 | Rex Healthcare | Rex | IA | Thrombectomy | 1:34:26 | 2c |
| 24-Jan-22 | Rex Healthcare | Rex | IA | Thrombectomy | 1:01:05 | 2a |
| 05-Feb-22 | Rex Healthcare | Rex | tPA-IA | None | 2:37:34 | NA |
| 15-Feb-22 | Rex Healthcare | Rex | IA | Thrombectomy | 1:02:26 | 3 |
| 18-Feb-22 | Rex Healthcare | Rex | IA | Thrombectomy | 1:05:15 | 3 |
| 18-Feb-22 | Rex Healthcare | Rex | IA | Thrombectomy | 1:41:51 | 3 |
| 24-Feb-22 | Rex Healthcare | Rex | IA | Thrombectomy | 2:30:07 | 2c |
| 12-Mar-22 | Rex Healthcare | Rex | IA | Thrombectomy | 1:31:06 | 3 |
| 21-Mar-22 | Rex Healthcare | Rex | IA | None | 1:45:00 | NA |
| 23-Mar-22 | Rex Healthcare | Rex | tPA-IA | Thrombectomy | 1:31:13 | 2c |
| 24-Mar-22 | Rex Healthcare | Rex | tPA-IA | Thrombectomy | 1:51:51 | 2c |
| 04-Jan-22 | WakeMed Main | WakeMed Main | IA | Thrombectomy | 2:42:42 | 2b |
| 10-Jan-22 | WakeMed Main | WakeMed Main | IA | Thrombectomy | 1:16:37 | 2b |
| 04-Feb-22 | WakeMed Main | WakeMed Main | IA | Thrombectomy | 1:04:26 | 3 |
| 13-Feb-22 | WakeMed Main | WakeMed Main | IA | Thrombectomy | 1:52:41 | 2b |
| 14-Feb-22 | WakeMed Main | WakeMed Main | IA | Thrombectomy | 1:19:26 | 2a |
| 11-Mar-22 | WakeMed Main | WakeMed Main | IA | Thrombectomy | 1:53:25 | 2b |

Destination for Wake EMS Patients with Suspected or Confirmed Stroke 1st Qtr 2022

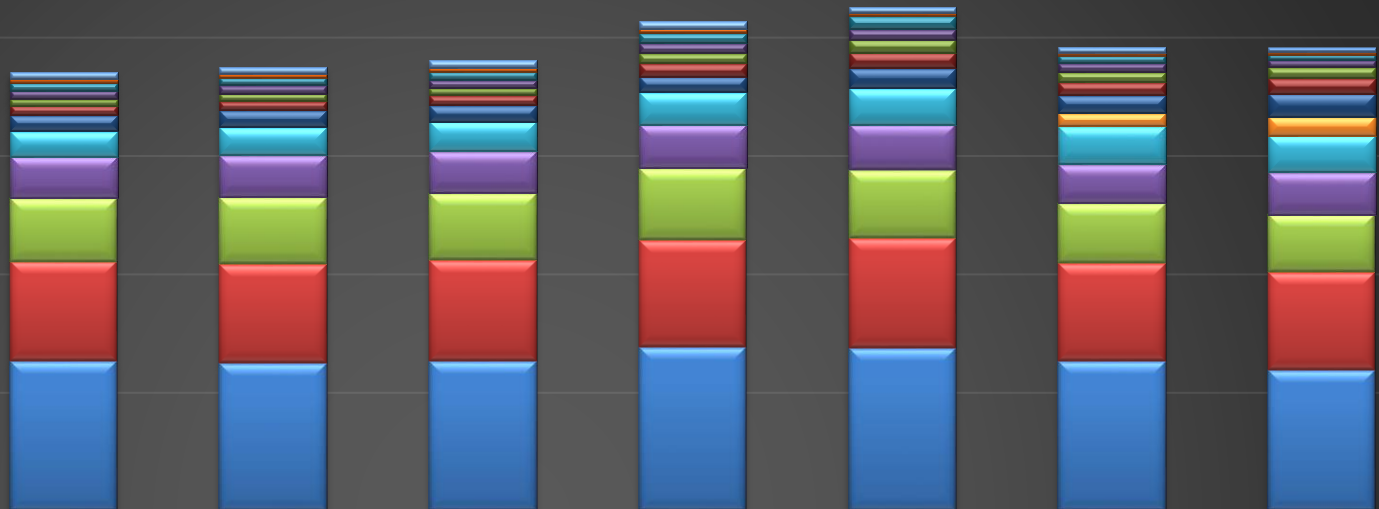
- Apex Healthplex-WakeMed
- Cary-WakeMed
- Garner Healthplex-WakeMed
- Rex Healthcare
- Brier Creek Healthplex-WakeMed
- Duke Raleigh Hospital
- North-WakeMed
- WakeMed Main



Total Transports for the System

NUMBER OF TRANSPORTS

25000
20000
15000
10000
5000
0



| | 3Q20 | 4Q20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 1Q22 |
|-----------------------|------|------|------|------|------|------|------|
| Other Out of County | 292 | 270 | 315 | 332 | 259 | 229 | 163 |
| UNC | 140 | 148 | 153 | 171 | 117 | 117 | 125 |
| Apex - WakeMed | 333 | 319 | 348 | 438 | 556 | 325 | 248 |
| Duke Durham | 351 | 354 | 357 | 418 | 440 | 368 | 300 |
| Brier Creek - WakeMed | 292 | 317 | 289 | 418 | 560 | 436 | 450 |
| WakeMed Childrens ED | 408 | 383 | 411 | 562 | 636 | 543 | 658 |
| WakeMed - Garner | 668 | 715 | 695 | 649 | 859 | 747 | 974 |
| Rex - Holly Springs | | | | | | 564 | 799 |
| WakeMed - North | 1069 | 1181 | 1264 | 1392 | 1540 | 1601 | 1534 |
| Duke Raleigh | 1757 | 1784 | 1771 | 1847 | 1941 | 1655 | 1815 |
| WakeMed - Cary | 2699 | 2820 | 2824 | 3021 | 2868 | 2544 | 2431 |
| Rex Healthcare | 4209 | 4197 | 4273 | 4522 | 4656 | 4135 | 4119 |
| WakeMed Main | 6319 | 6248 | 6331 | 6937 | 6864 | 6329 | 5969 |

Transports By Facility



eso



ANALYTICS

Transports By Destination Name

19,285

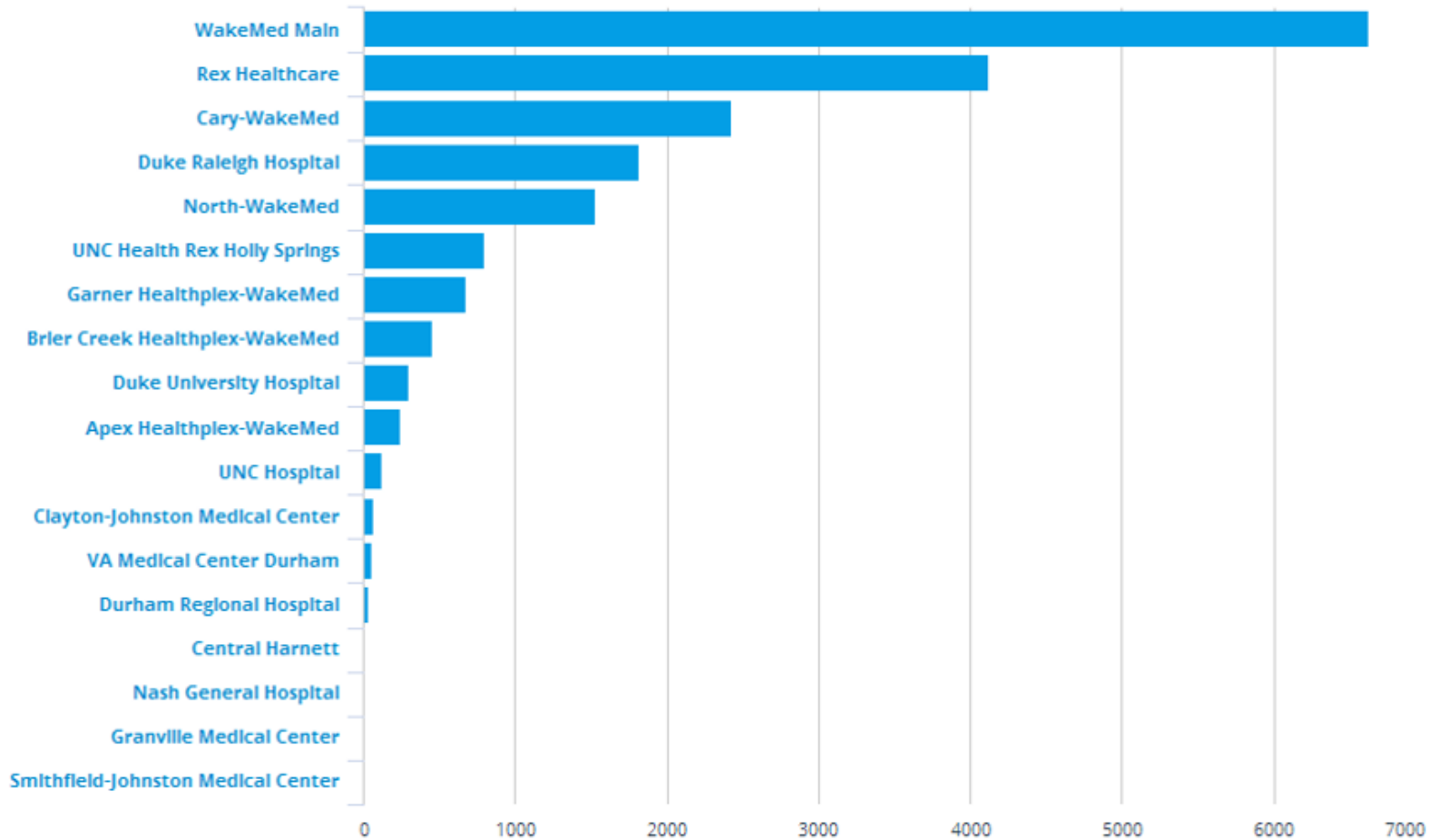
RECORDS

In Selected Time Slice

90

DAYS

In Selected Time Slice

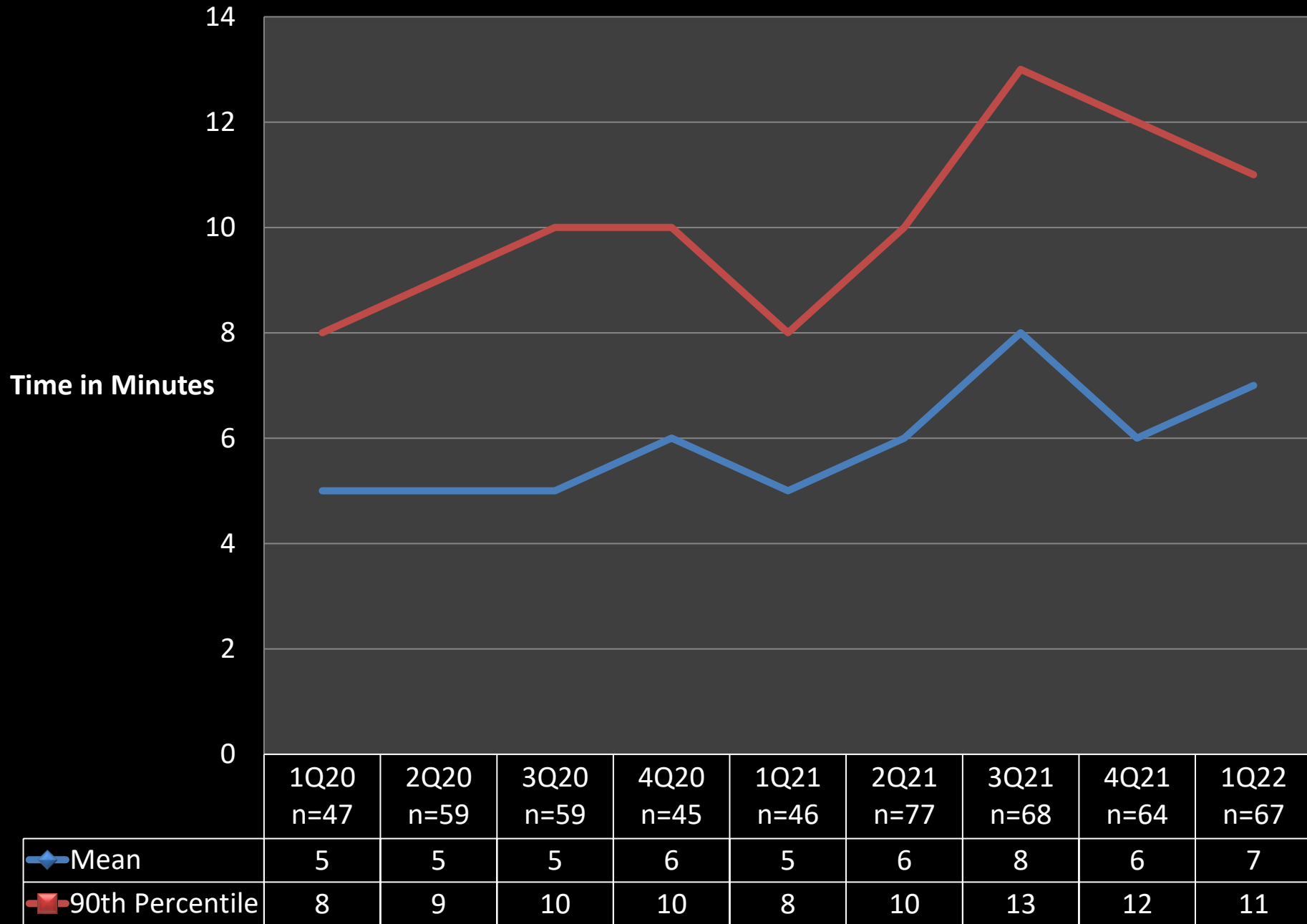


Trauma

Prompt
Compassionate
Clinically Excellent Care

Wake EMS System

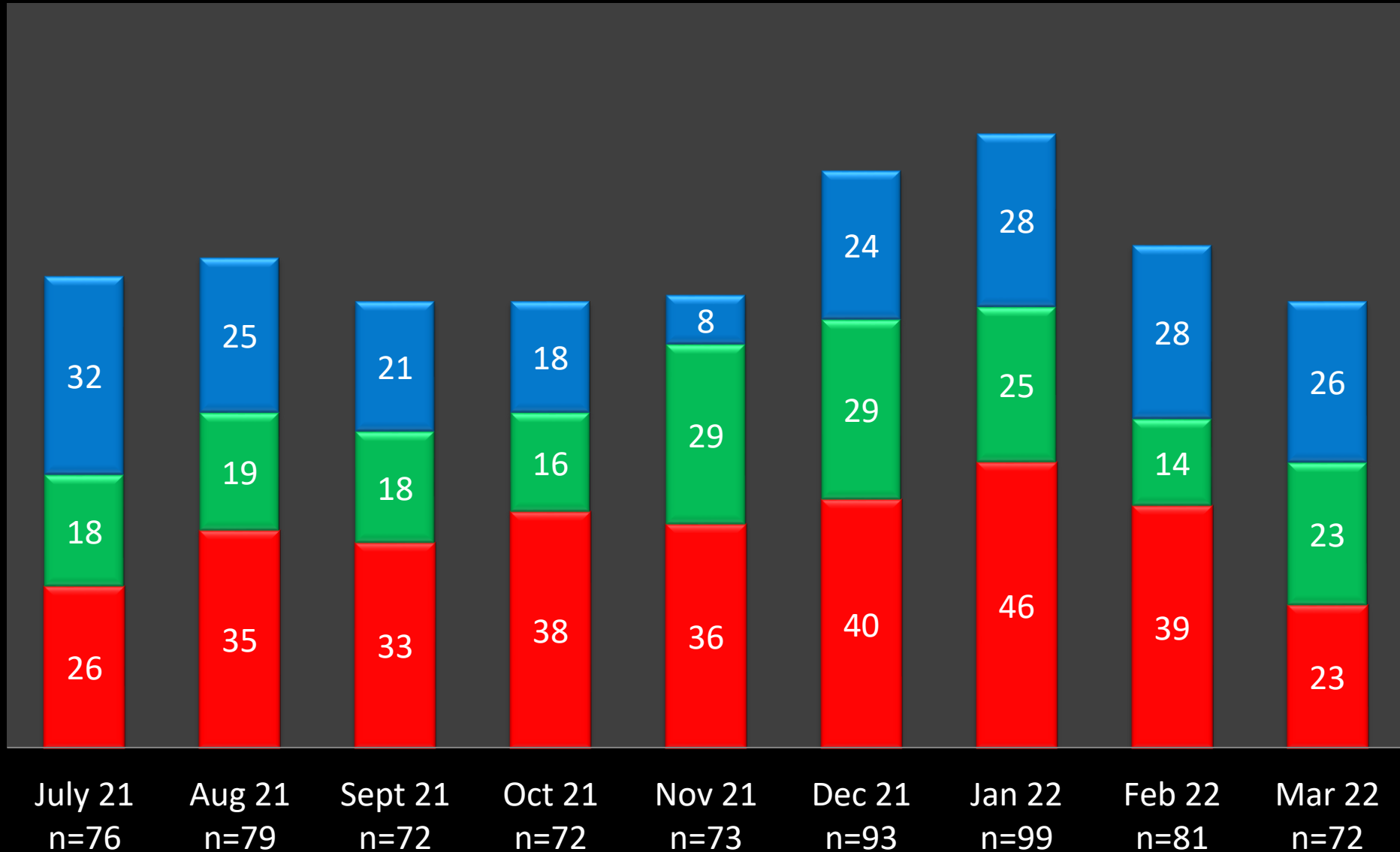
Penetrating Trauma Scene Times



Cardiac Arrest

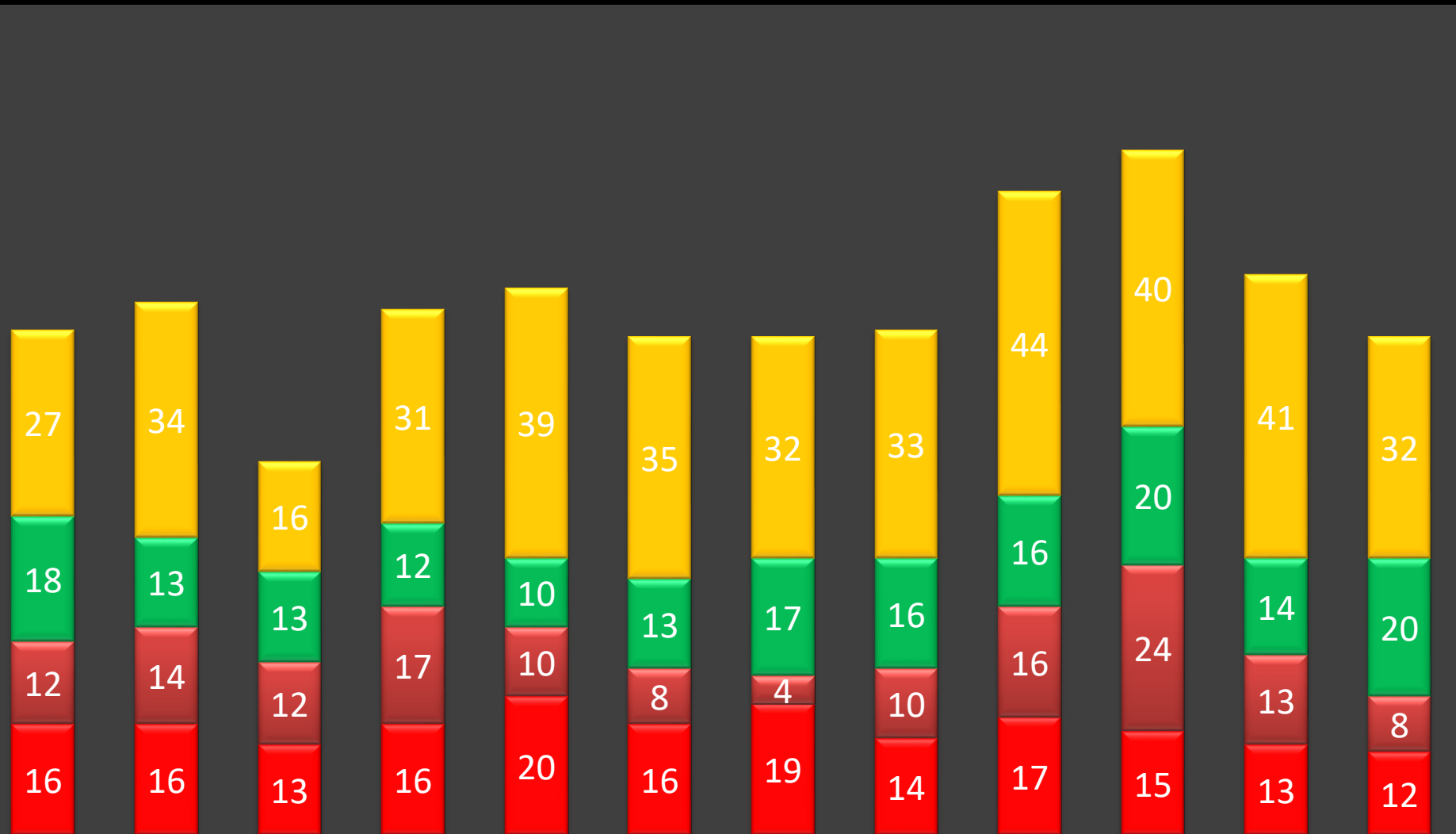
Wake EMS Worked Cardiac Arrest

- 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 21 n=73 May 21 n=77 June 21 n=54 July 21 n=76 Aug 21 n=79 Sept 21 n=72 Oct 21 n=72 Nov 21 n=73 Dec 21 n=93 Jan 22 n=99 Feb 22 n=81 Mar 22 n=72

Total LUCAS Uses



APR 21 MAY 21 JUNE 21 JULY 21 AUG 21 SEPT 21 OCT 21 NOV 21 DEC 21 JAN 22 FEB 22 MAR 22

Prompt
Compassionate
Clinically Excellent Care

CARES Survival Report

Wake County EMS System

Date of Arrest: 01/01/21 - 12/31/21 | Non-Traumatic Etiology

Non-Traumatic Etiology Survival Rates

| | |
|----------------------------------|-------------|
| Overall: | 12.7% (865) |
| Bystander Wit'd: | 17.1% (333) |
| Unwitnessed: | 5.3% (376) |
| Utstein ¹ : | 38.6% (101) |
| Utstein Bystander ² : | 41.8% (55) |

¹Utstein: Witnessed by bystander and found in shockable rhythm.

²Utstein Bystander: Witnessed by bystander, found in shockable rhythm, and received some bystander intervention

Bystander Intervention Rates ³

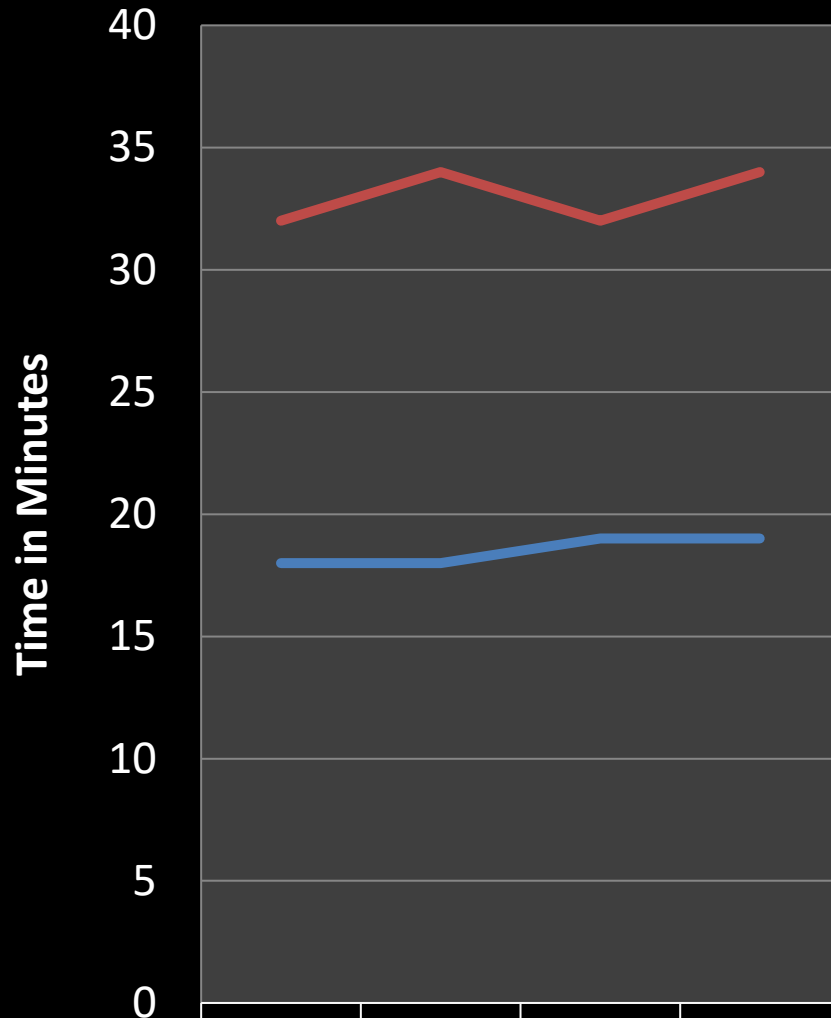
| | |
|-----------------|-------------|
| CPR: | 34.7% (617) |
| Public AED Use: | 9.6% (94) |

Cardiac Arrest 2022 Total Survivors

113

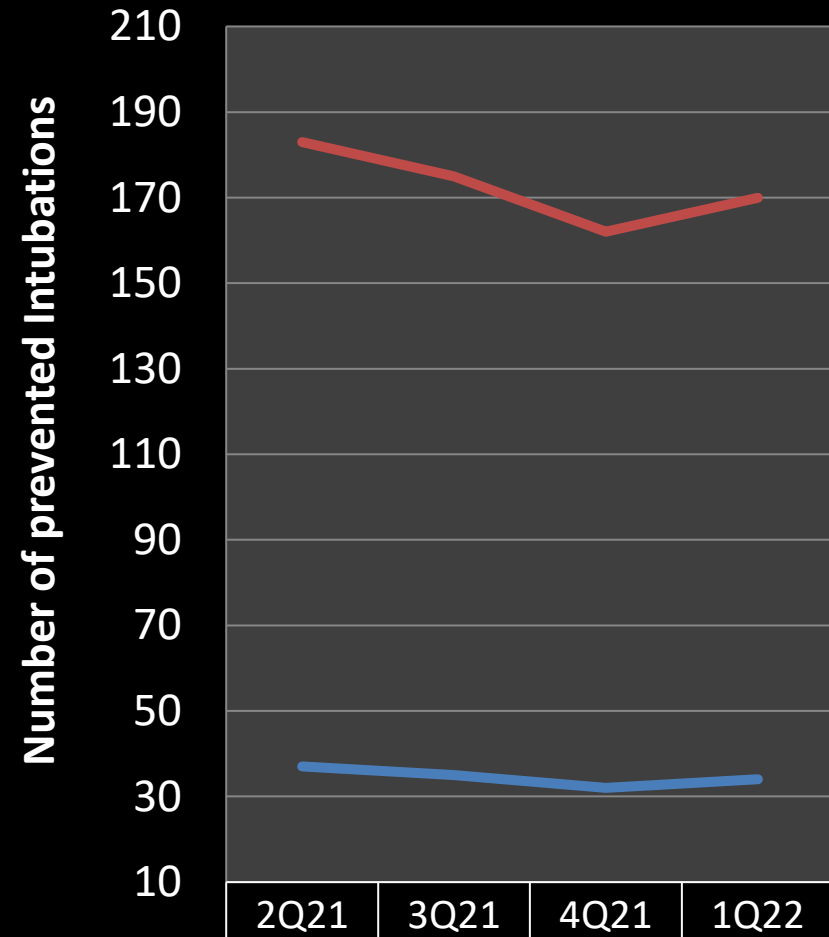
Respiratory Distress

Wake EMS System CPAP Application Time



| | | | | |
|-------------------|----|----|----|----|
| ◆ Mean | 18 | 18 | 19 | 19 |
| ■ 90th Percentile | 32 | 34 | 32 | 34 |

Wake EMS System Intubation Prevented with CPAP

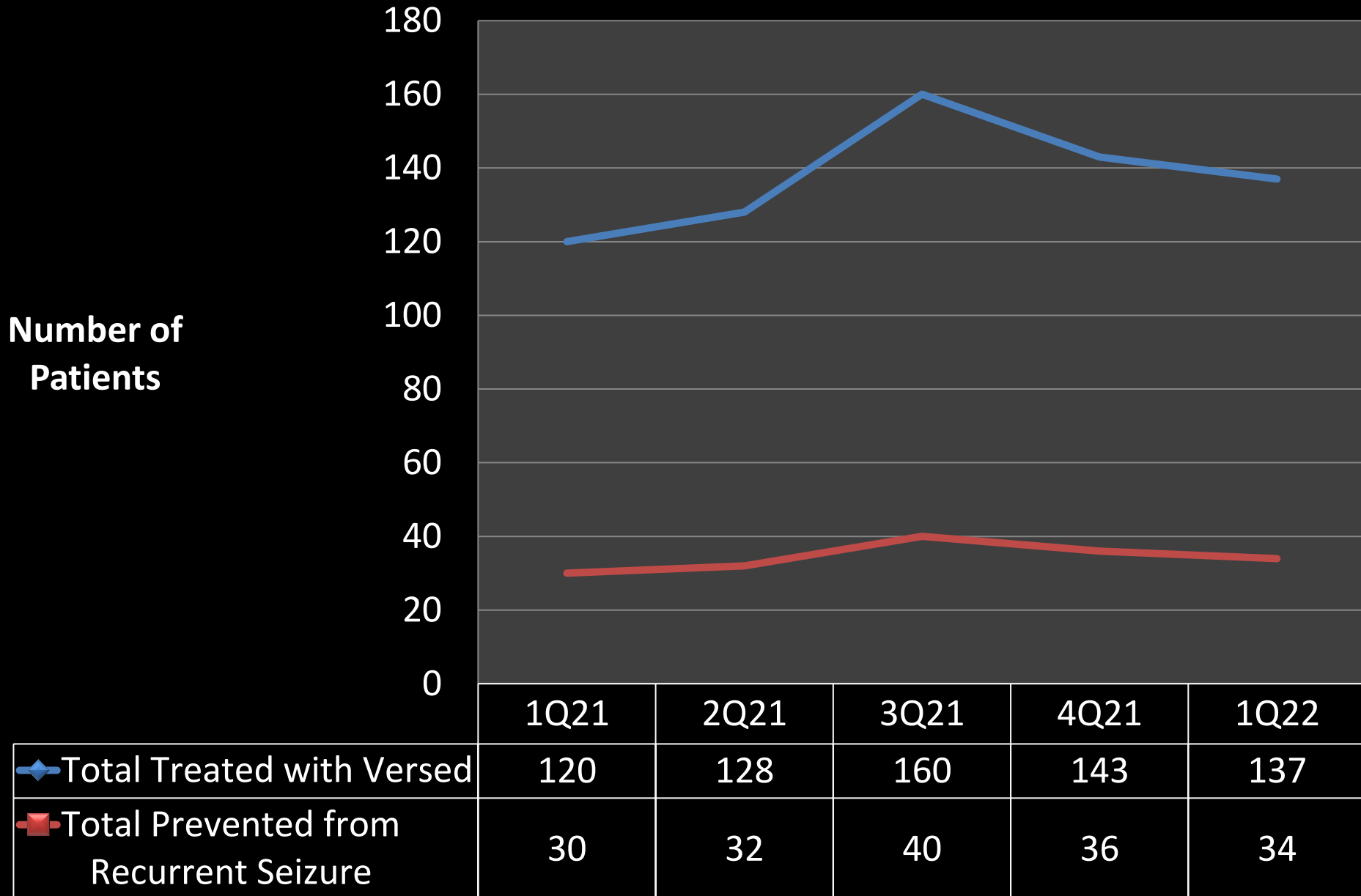


| | | | | |
|------------------------|-----|-----|-----|-----|
| ◆ Intubation Prevented | 37 | 35 | 32 | 34 |
| ■ Treated with CPAP | 183 | 175 | 162 | 170 |

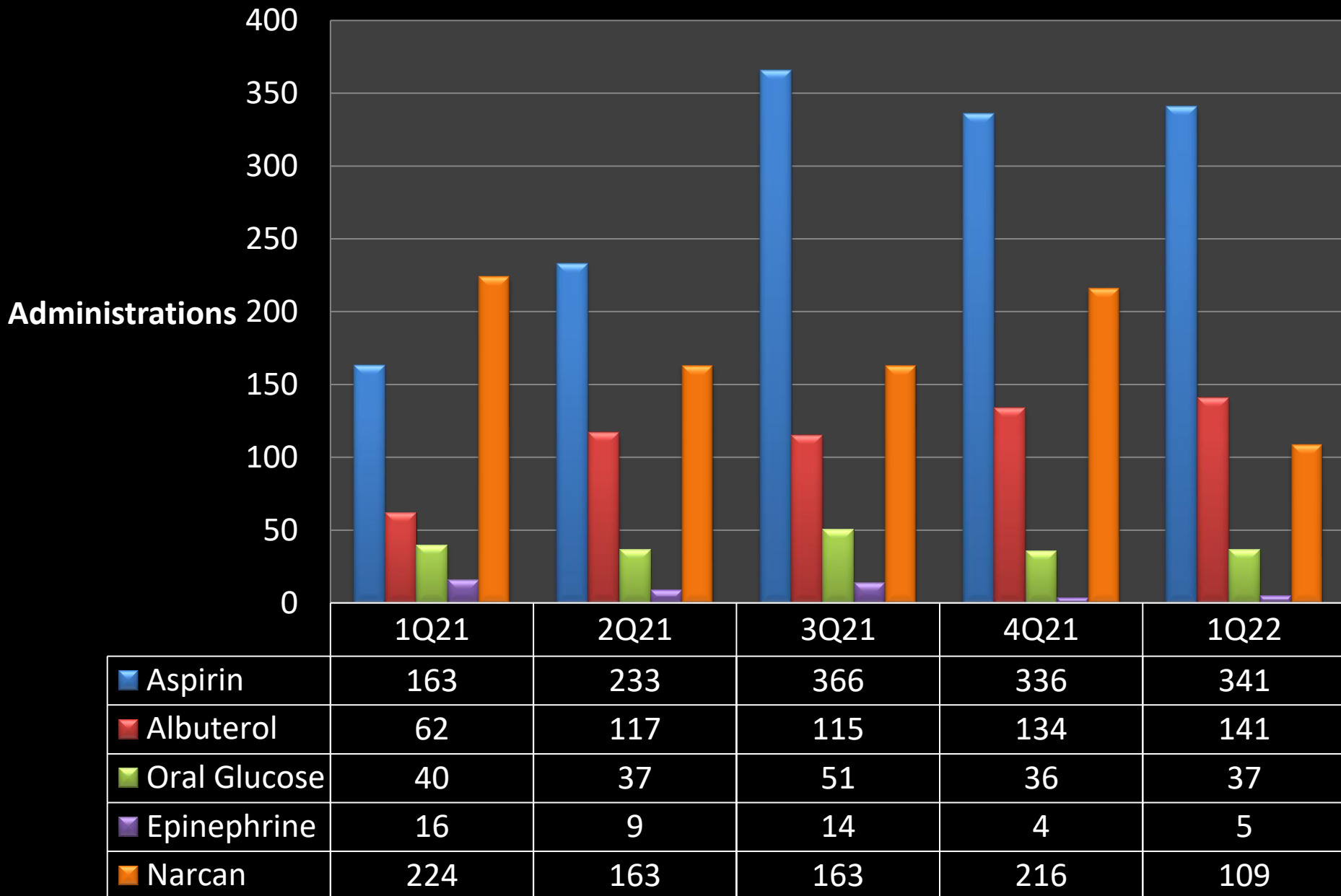
Miscellaneous Reports

Wake EMS System

Seizure Patients Treated with Versed



Medications Administered by First Responders – Derived from EMS Documentation

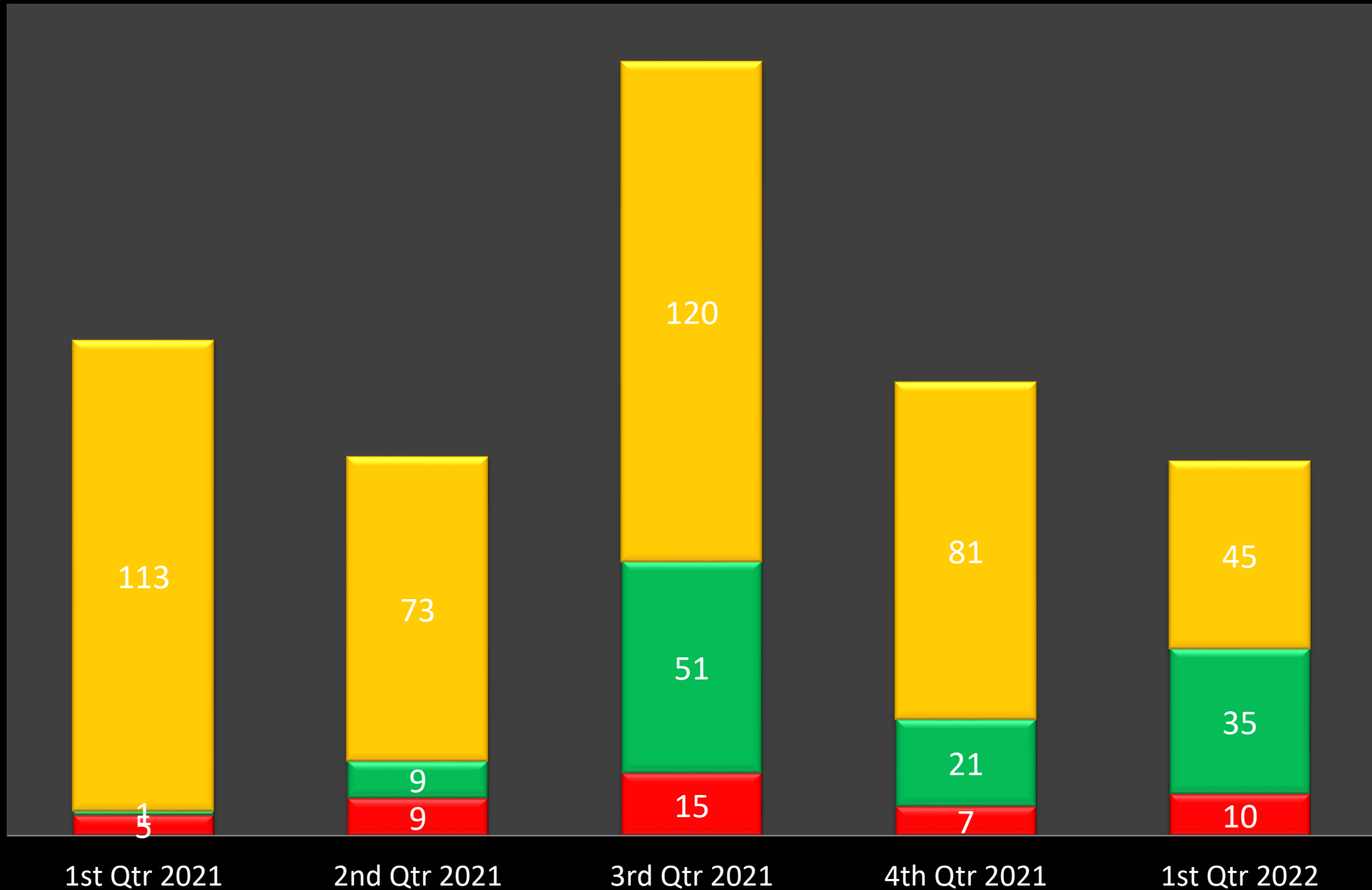


Reason for OMD Contact

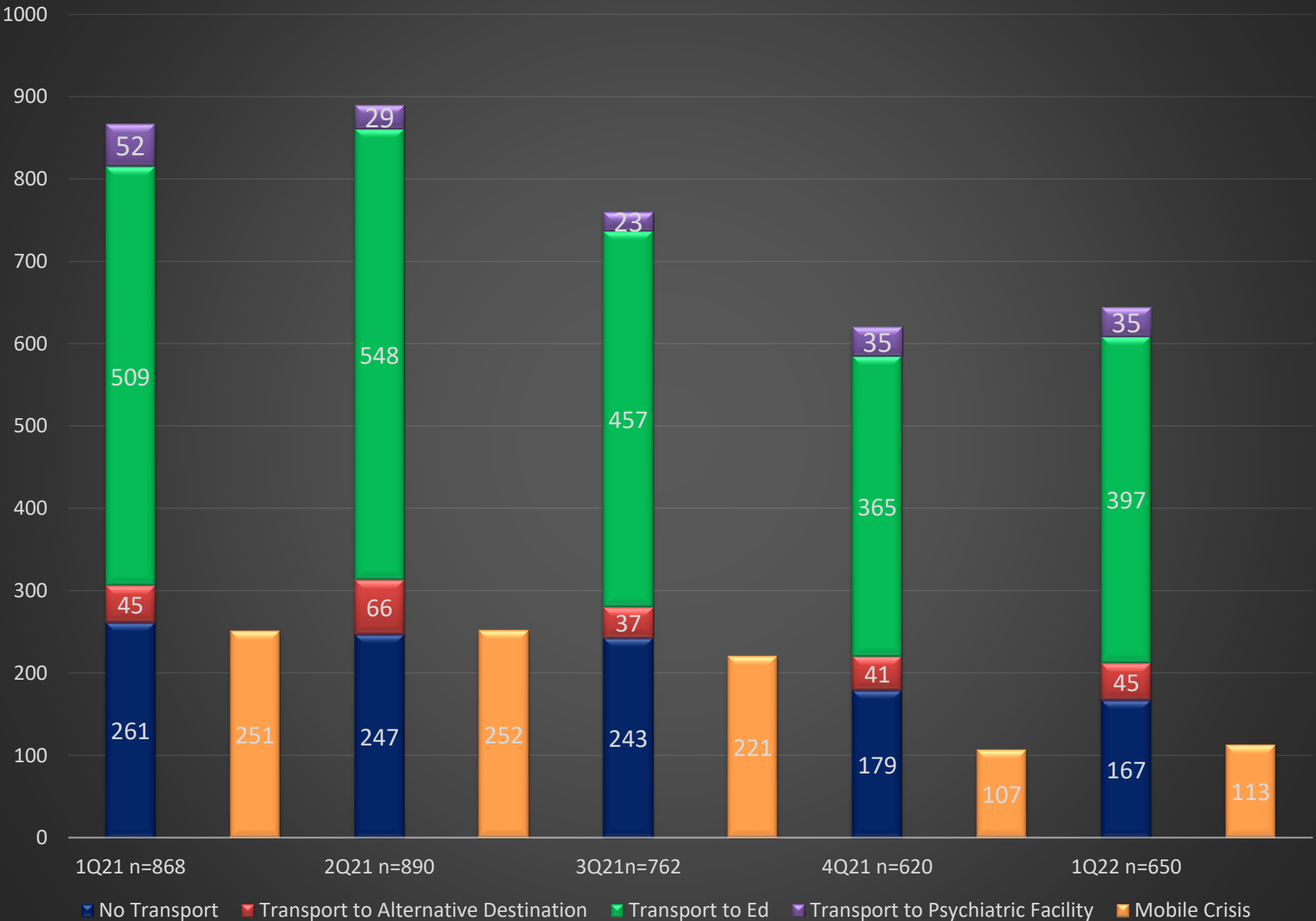
■ Automatic Notification

■ Medical Control Order

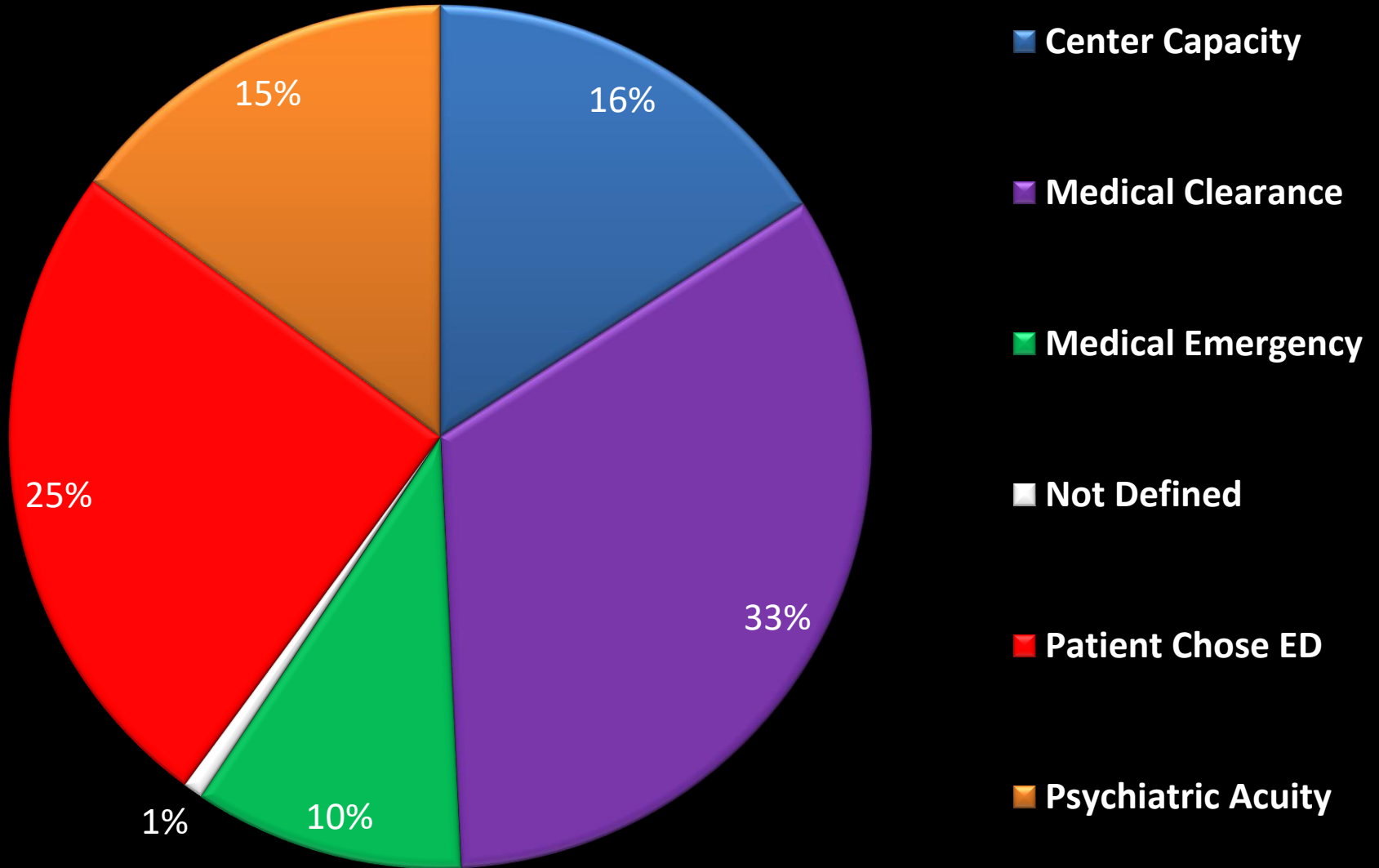
■ Unusual Event



APP Alternate Destination



1st Quarter 2022 Alternate Destination Reason for ED Transport



Questions?

