

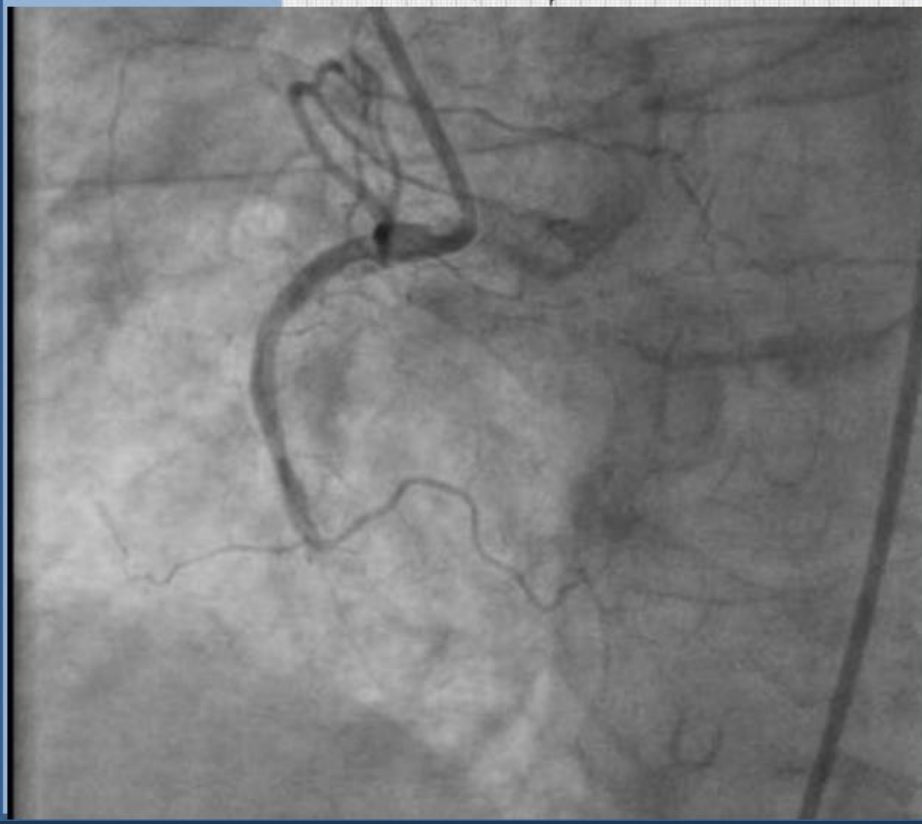
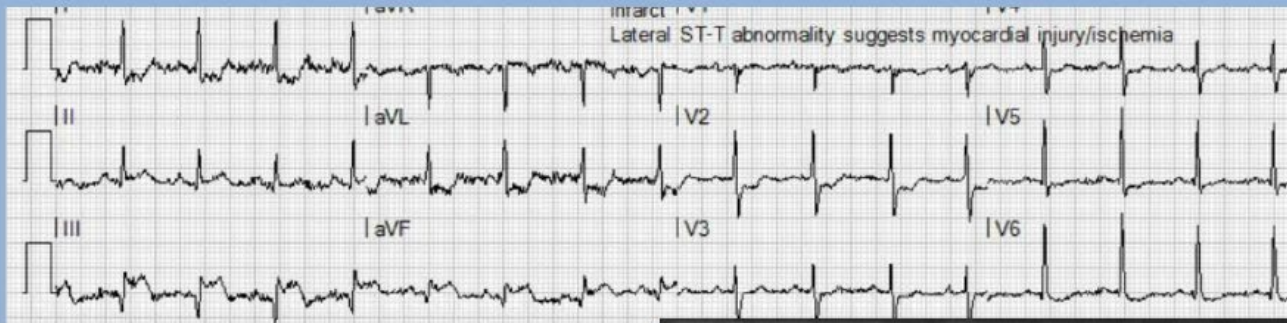


# Peer Review Clinical Data

*1<sup>st</sup> QUARTER 2023*



# 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

	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep t 22	Oct 22	No v 22	Dec 22	Jan 23	Feb 23	Ma r 23
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■ Hospital Arrival to Intervention

48

50

55

45

57

48

45

41

46

45

47

47

■ Scene Departure to Hospital Arrival

18

15

15

15

18

18

16

18

20

14

17

18

■ 1st Patient Contact to Scene  
Departure

14

11

13

14

15

13

11

13

11

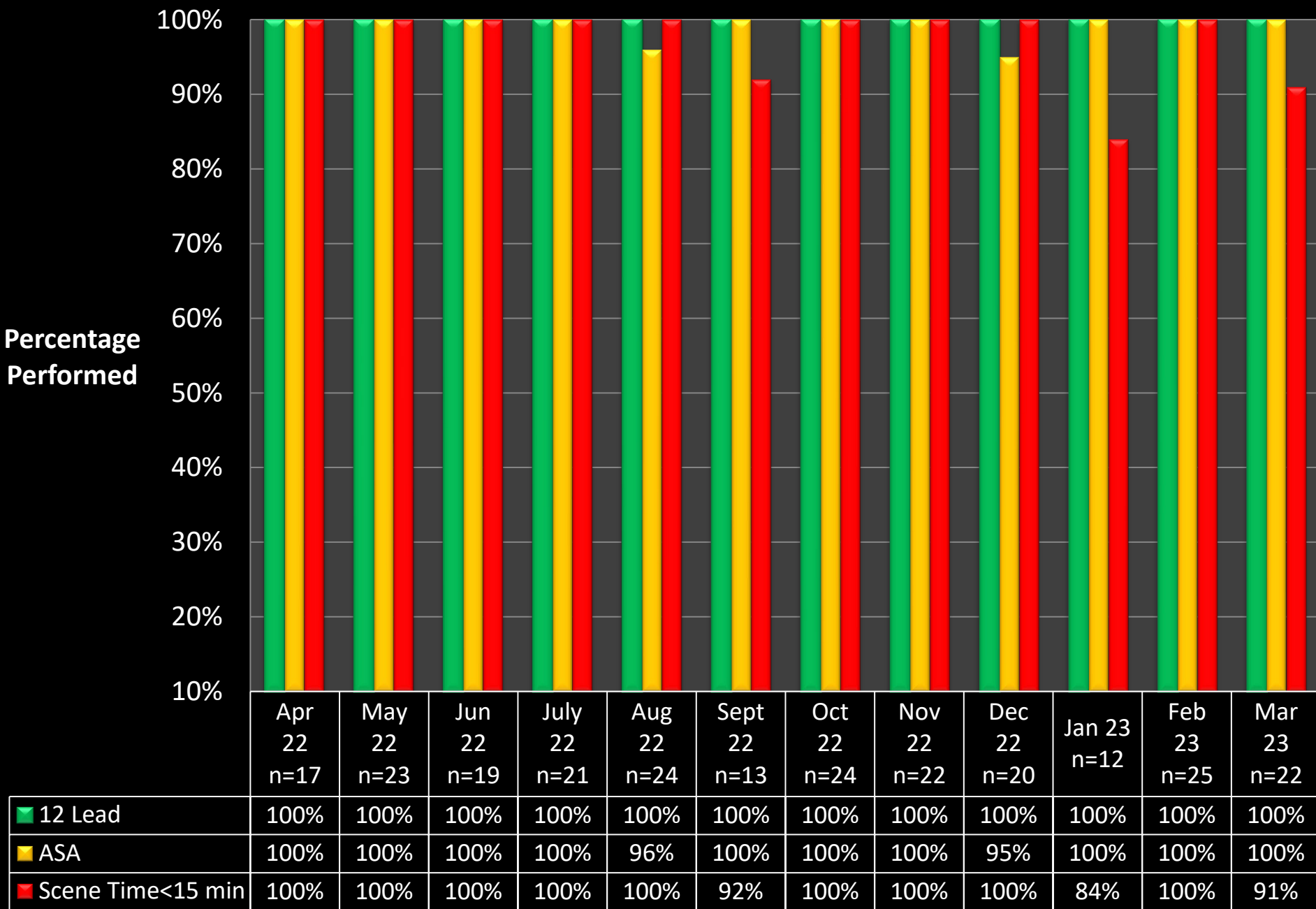
14

13

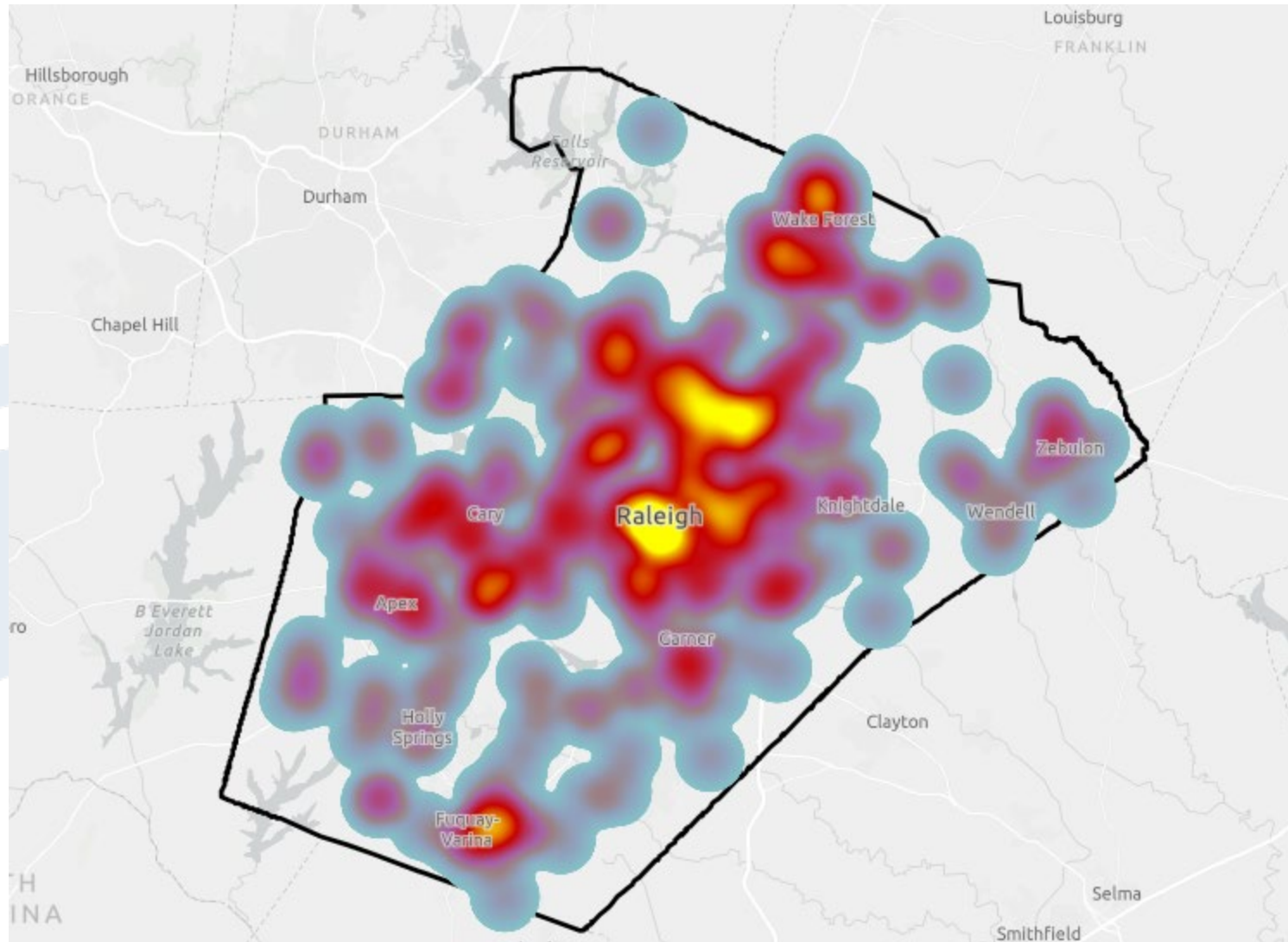
12

# EMS STEMI Evidence Based Medicine Measures

## Patients Transported by EMS with Suspected or Confirmed STEMI



# STEMI Heat Map CY 2022





# STEMI Overtriage - 4Q2022

**STEMIs activated  
by EMS: 59**

**Total STEMI Activations cancelled as reported by hospitals: n= 31**

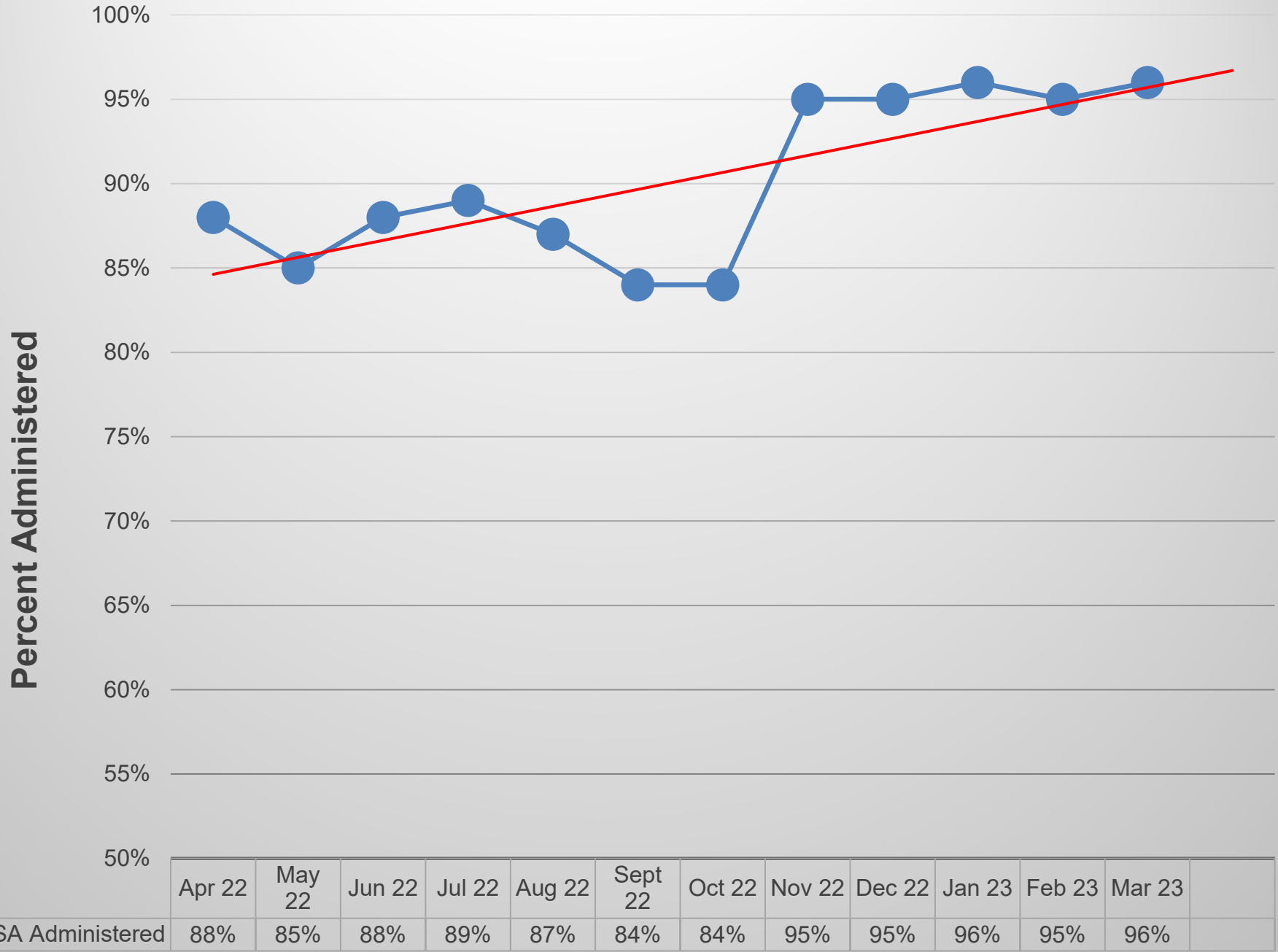
- **ED Activations sent for consult only by EMS: n= 16**
- **EMS did not activate or send for consult: n= 1**

**STEMIs activated by EMS that were cancelled by Hospital n= 14**

Category	Reason Cancelled	Final Disposition = Triage Correctly	Final Disposition = Over Triage
ED EKG Does Not Meet STEMI Criteria	6	4	2
ST Elevation Resolved	0	0	0
Expired	2	2	0
STEMI Imposter (LVH, J Point Elev., Etc)	1	1	0
Other	5	4	1
			<b>5 % Overtriage Rate</b>

# Wake EMS

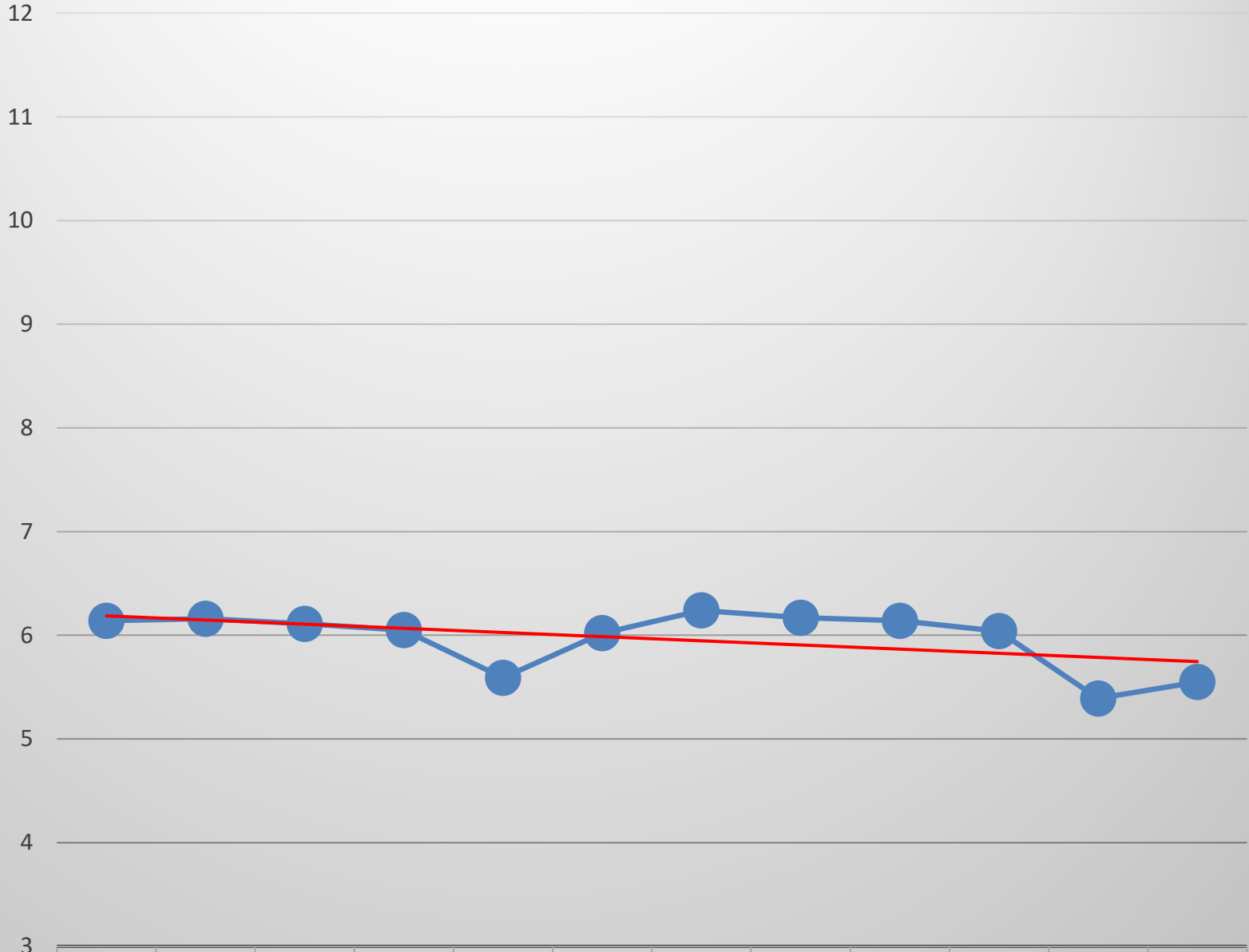
## Chest Pain Patient Age>35 Who Had ASA Administered



# Wake EMS

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

Time to 12 Lead



Time to 12 Lead (min)

Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sept 22	Oct 22	Nov 22	Dec 22	Jan 23	Feb 23	Mar 23
6.14	6.16	6.11	6.05	5.59	6.02	6.24	6.17	6.14	6.04	5.39	5.55



# Wake EMS

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

### Age 35+ w/chest pain

	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Total
00:00 - 04:59	175	206	207	217	234	195	202	170	191	211	196	229	2,433
5:00 - 7:59	115	146	150	155	152	129	154	148	126	148	99	125	1,647
8:00 - 9:59	39	41	43	47	40	35	48	39	29	31	29	31	452
10:00 - 11:59	23	25	22	18	16	24	16	17	18	20	13	28	240
12:00 - 14:59	13	13	14	18	18	18	19	13	15	15	8	14	178
15:00 - 19:59	11	8	12	14	9	9	11	6	16	16	8	10	130
20:00 - 24:59	4	6	2	2	8	2	7	7	3	2	2	1	46
25:00 - 29:59	-	3	2	1	-	-	4	2	1	1	1	2	17
Total	380	448	452	472	477	412	461	402	399	444	356	440	5,143

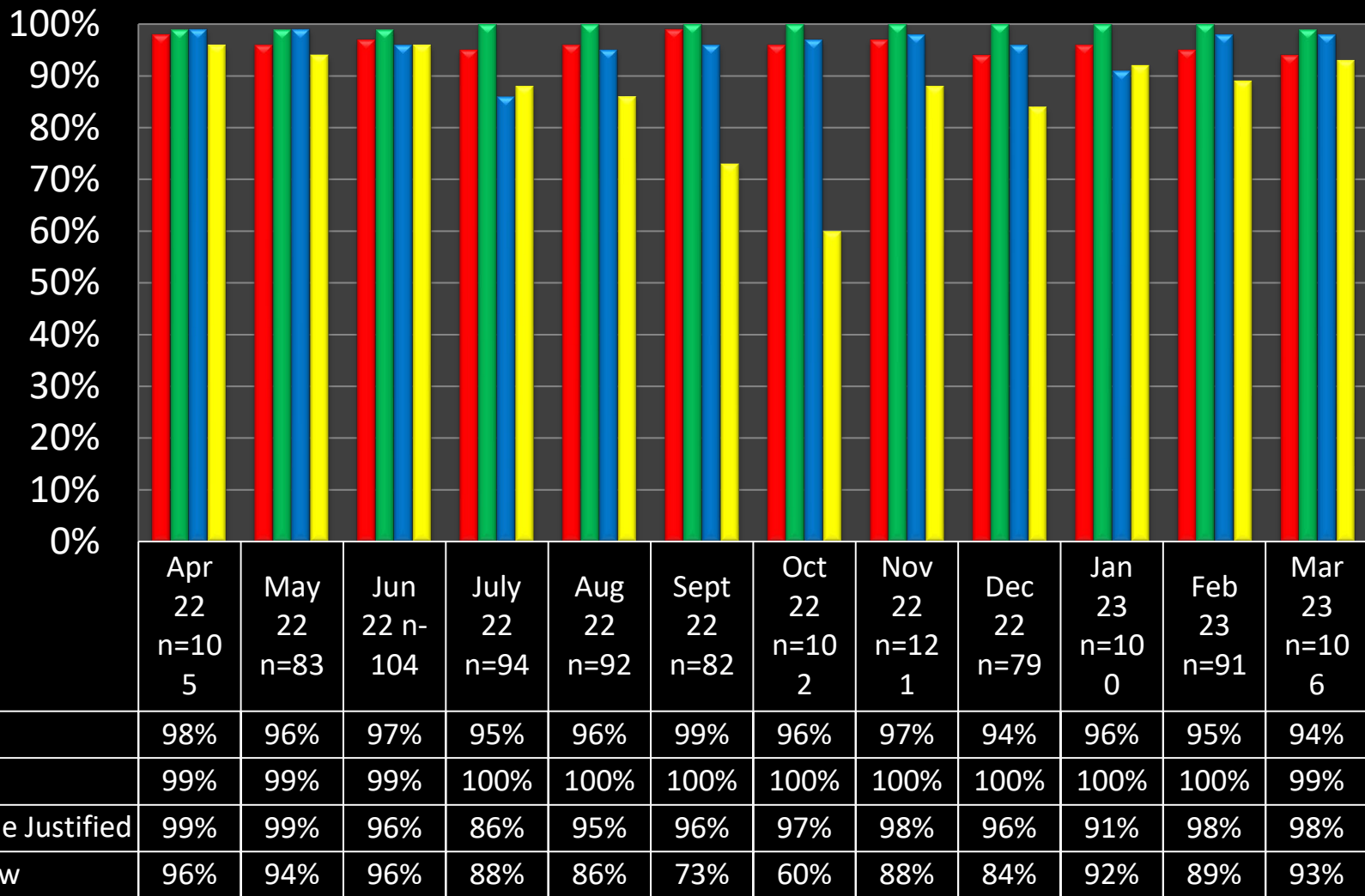
# STROKE

Prompt  
Compassionate  
Clinically Excellent Care

# EMS Stroke Evidence Based Medicine Measures

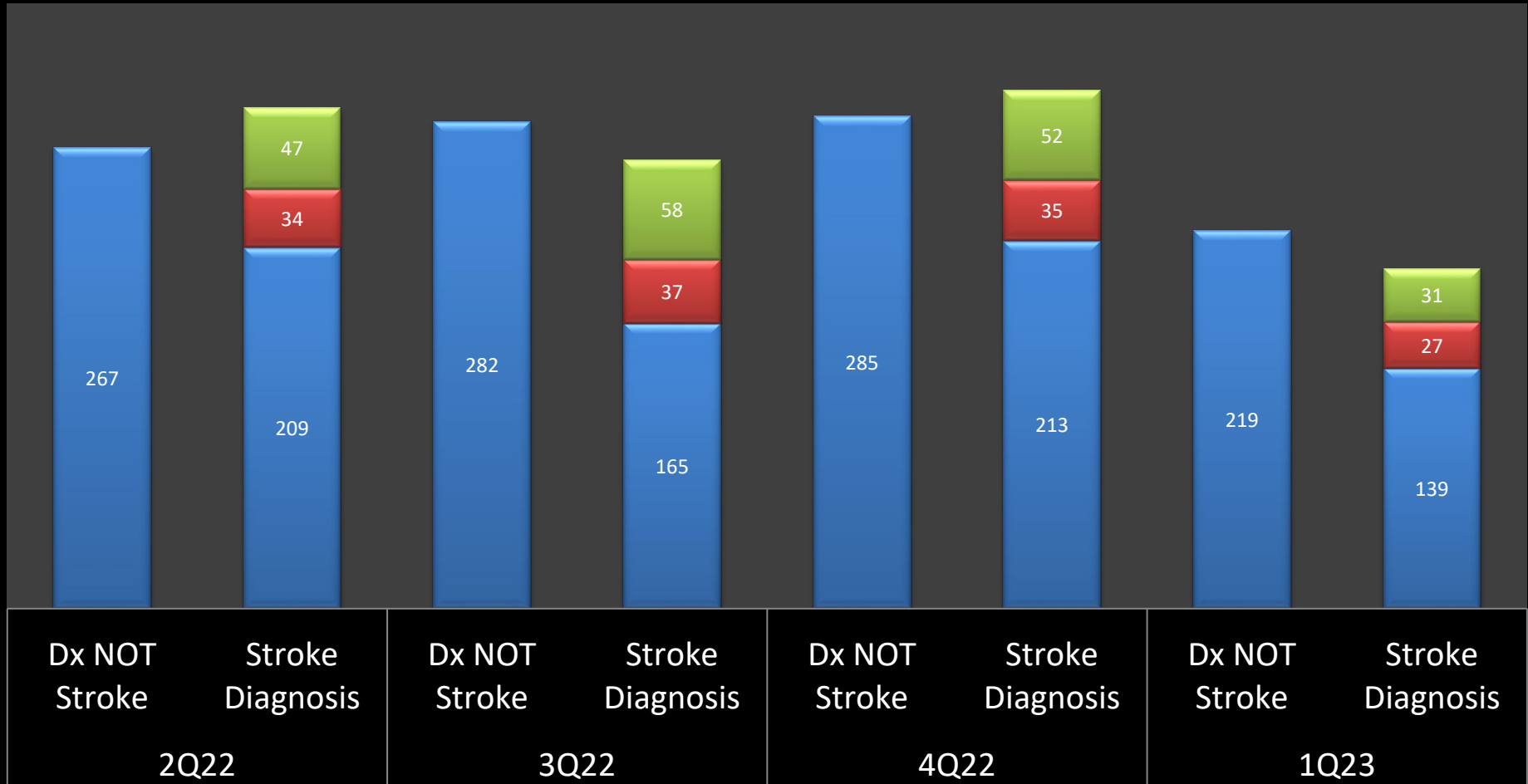
## Patients Transported by EMS with Suspected or Confirmed Stroke

Percentage  
Performed



# Code Strokes by EMS taken to Wake County Hospitals

■ No TPA Given ■ TPA Given ■ ICH

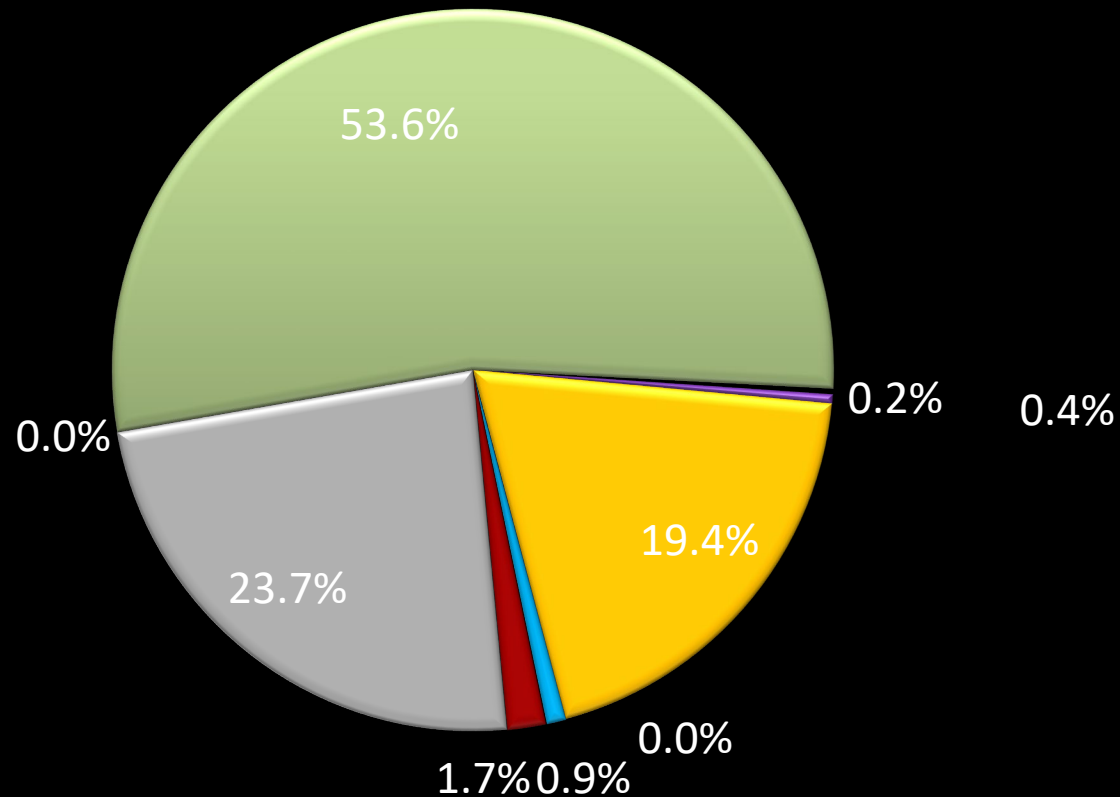


# Stroke Intervention

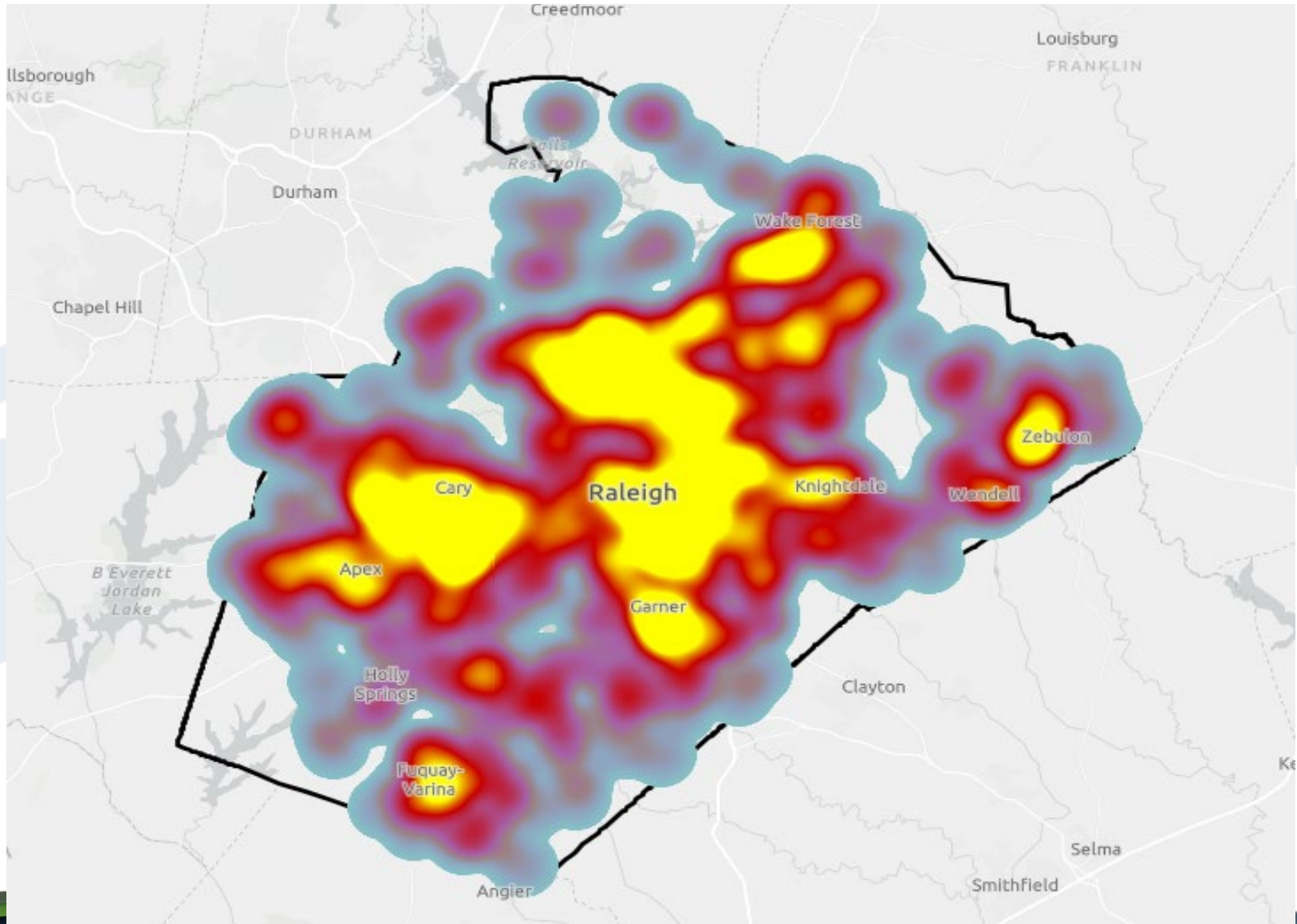
Date	Initial Hospital	Intervention Type	Intervention Performed	Initial ED to Puncture Time	TICI
23-Jan-23	Cary-WakeMed	IA	Thrombectomy	1:31:49	3
11-Mar-23	Cary-WakeMed	tPA-IA	Thrombectomy	0:49:57	3
13-Mar-23	Rex Healthcare	IA	Thrombectomy	1:19:07	3
17-Feb-23	Rex Healthcare	tPA-IA	Thrombectomy	1:06:54	3
15-Jan-23	WakeMed Main	IA	Thrombectomy	1:28:58	2a
01-Feb-23	Rex Healthcare	IA	Thrombectomy	0:55:04	2b
11-Mar-23	Cary-WakeMed	tPA-IA	Thrombectomy	1:16:47	3
08-Feb-23	Rex Healthcare	IA	Thrombectomy	1:04:43	3
20-Mar-23	Rex Healthcare	IA	Thrombectomy	1:24:00	3
03-Feb-23	Cary-WakeMed	tPA-IA	Thrombectomy	1:25:02	3
19-Feb-23	WakeMed Main	IA	None	1:46:28	NA
16-Jan-23	WakeMed Main	IA	Thrombectomy	1:45:54	2c
20-Feb-23	WakeMed Main	IA	Thrombectomy	1:27:11	2a
19-Jan-23	WakeMed Main	tPA-IA	Thrombectomy	1:43:00	2b
30-Mar-23	Rex Healthcare	IA	Thrombectomy	2:24:53	2C

## Destination for Wake EMS Patients with Suspected or Confirmed Stroke

- Apex Healthplex-WakeMed
- Cary-WakeMed
- Garner Healthplex-WakeMed
- UNC Rex Raleigh
- WakeMed Main
- Brier Creek Healthplex-WakeMed
- Duke Raleigh Hospital
- North-WakeMed
- UNC Rex Holly Springs



# Stroke Heat Map CY 2022

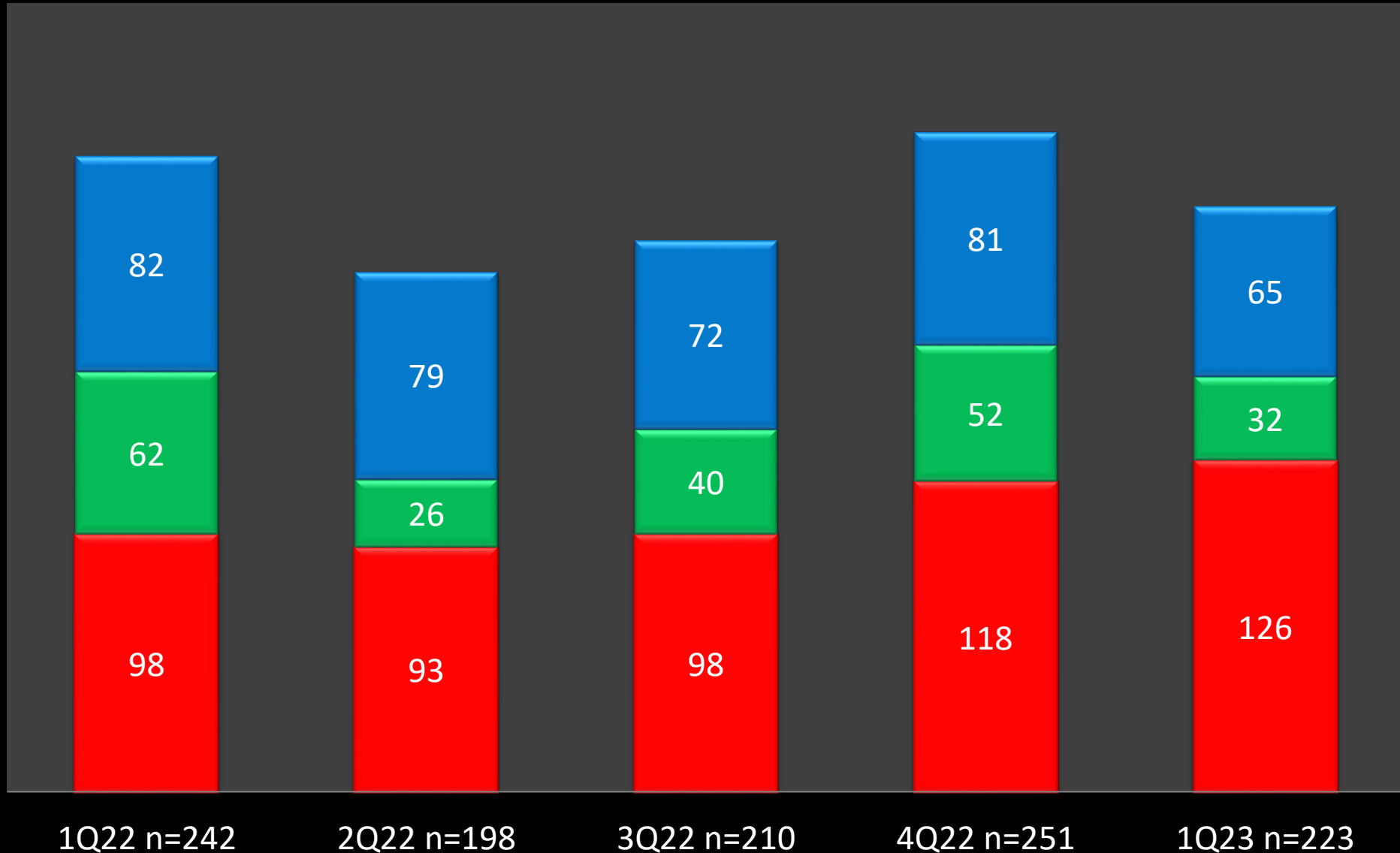




# Cardiac Arrest

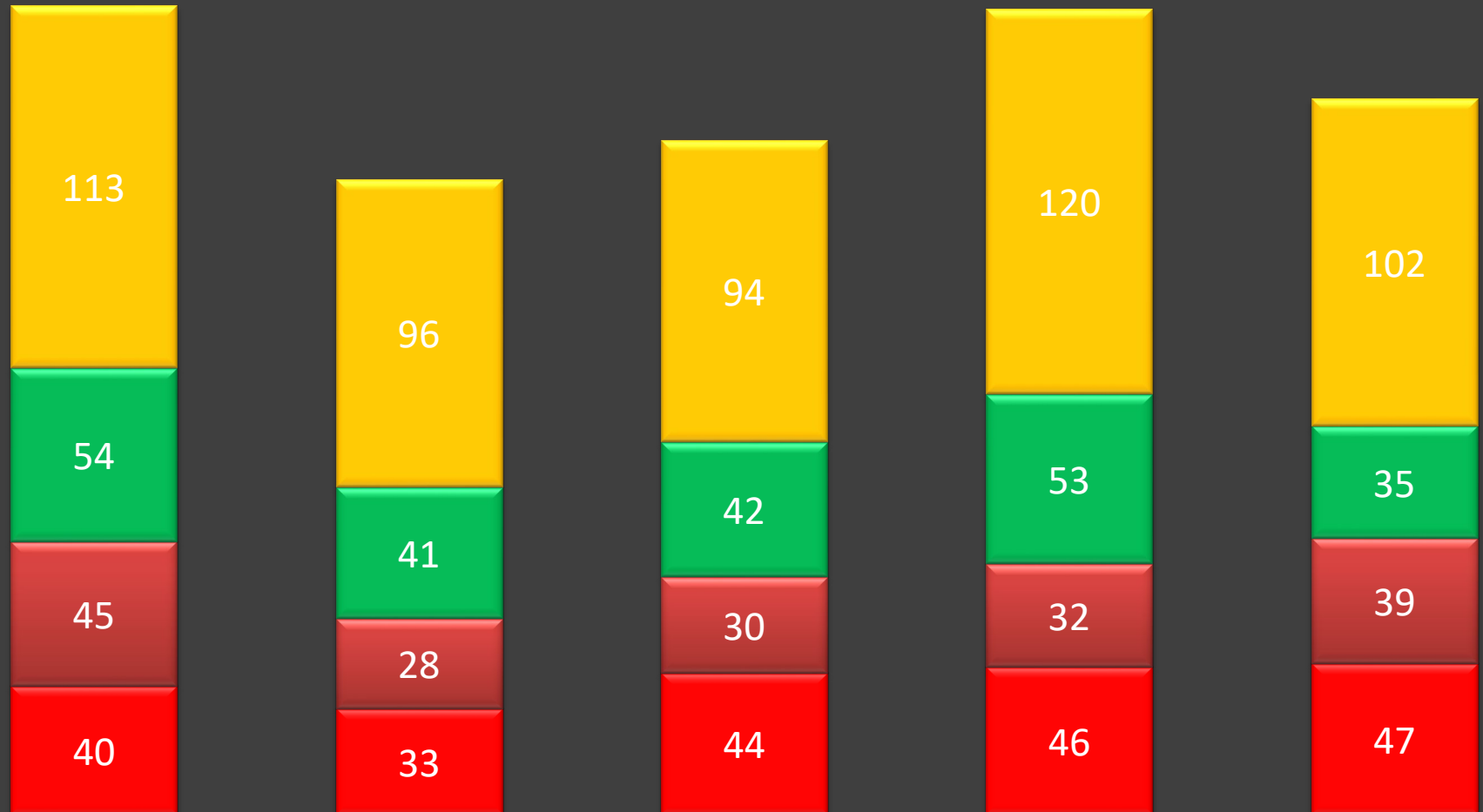
# Wake EMS Worked Cardiac Arrest

- 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



1Q22 n=252

2Q22 n=198

3Q22 n=210

4Q22 n=251

1Q23 n=223

# Cardiac Arrest 2022 Total Survivors

109

Code:



**CELEBRATE!**

**Tuesday, May 23 | 6 – 8 p.m.**

**A.J. Fletcher Opera Theater  
Martin Marietta Center for the Performing Arts**

 **2 E. South St. | Raleigh, NC 27601**

# Dispatcher Assisted CPR (DACPR)

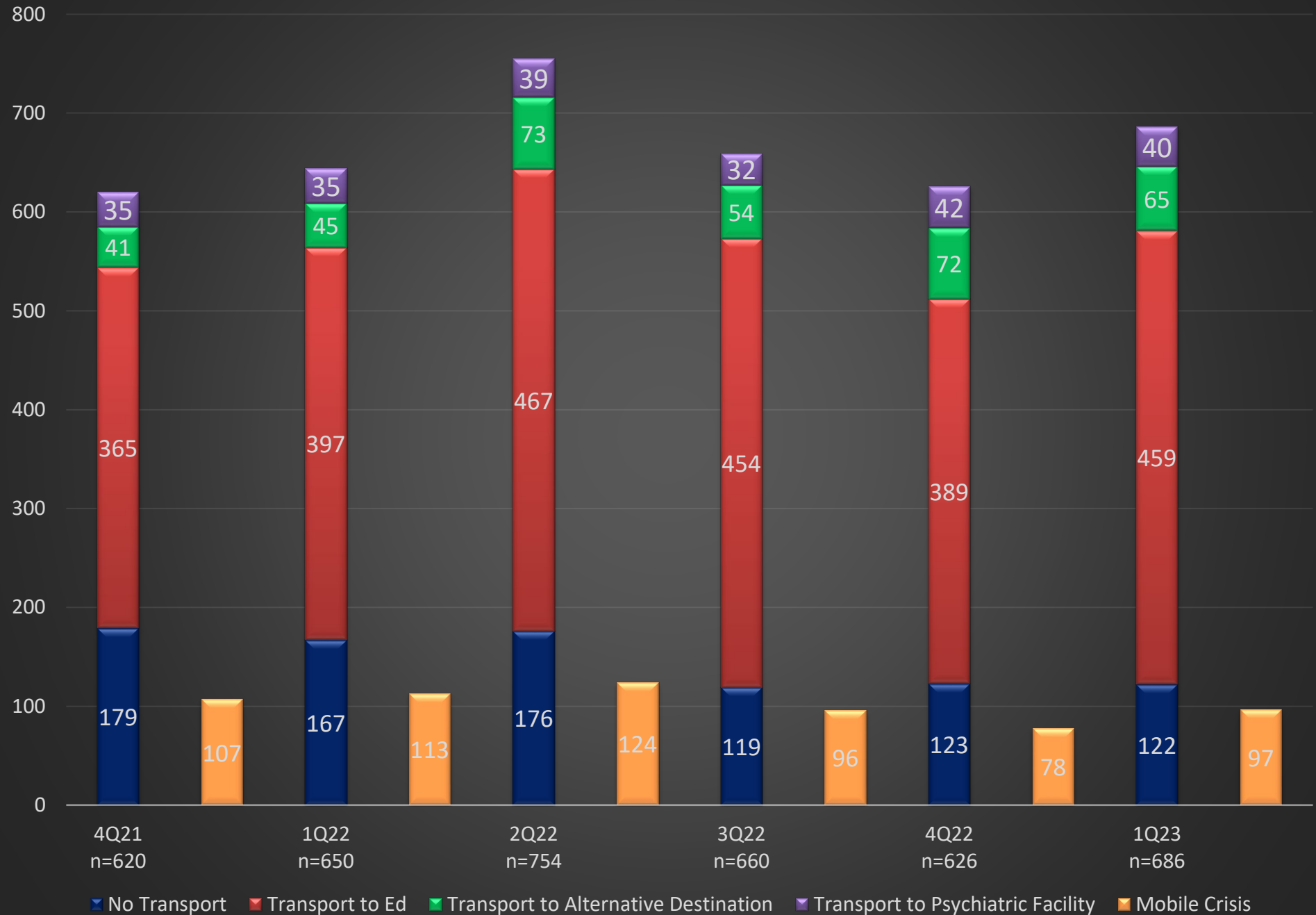
# DACPR METRICS

Characteristic	Wake County EMS System
<b>Bystander CPR (Module-based)</b>	<b>N=131</b>
Bystander CPR with dispatcher assistance	75 (57.3%)
Bystander CPR without dispatcher assistance	9 (6.9%)
<b>Dispatcher CPR Instructions</b>	
Dispatcher recognized need for CPR	105 (92.9%)
CPR instructions started	99 (83.2%)
CPR instructions refused	5 (5.1%)
Compressions started	77 (65.8%)

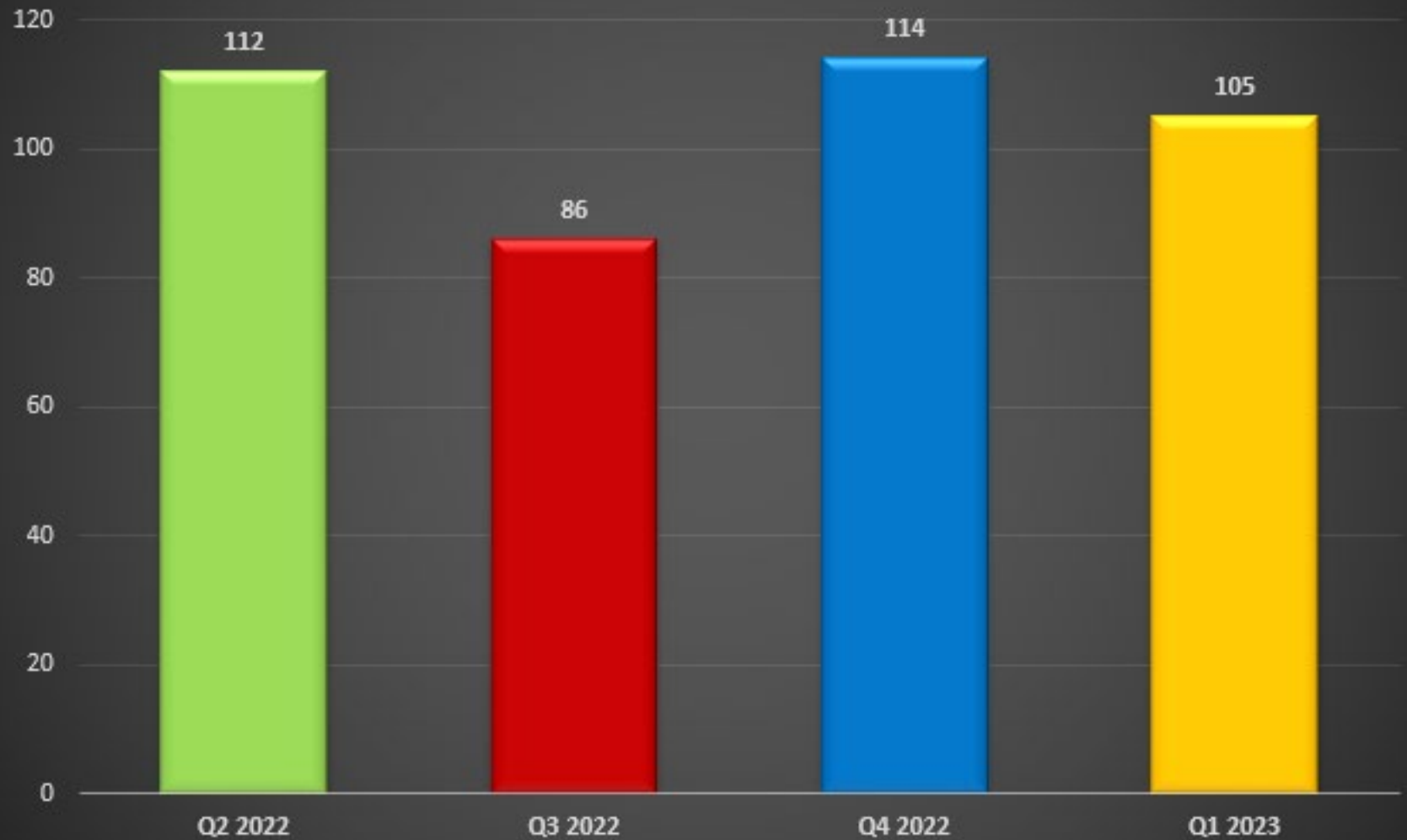


# MH/SU Alternate Destination

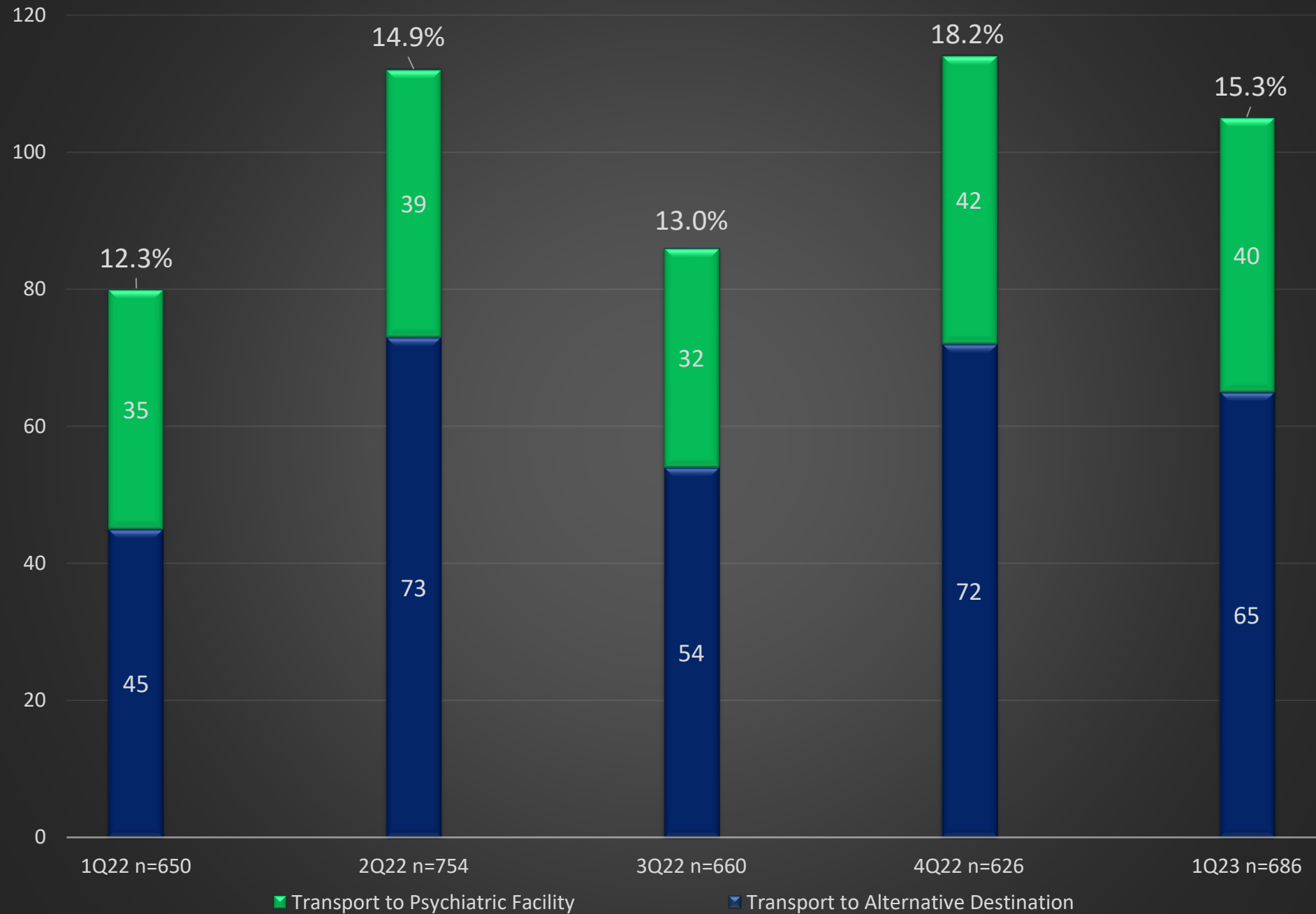
# APP Alternate Destination Screening



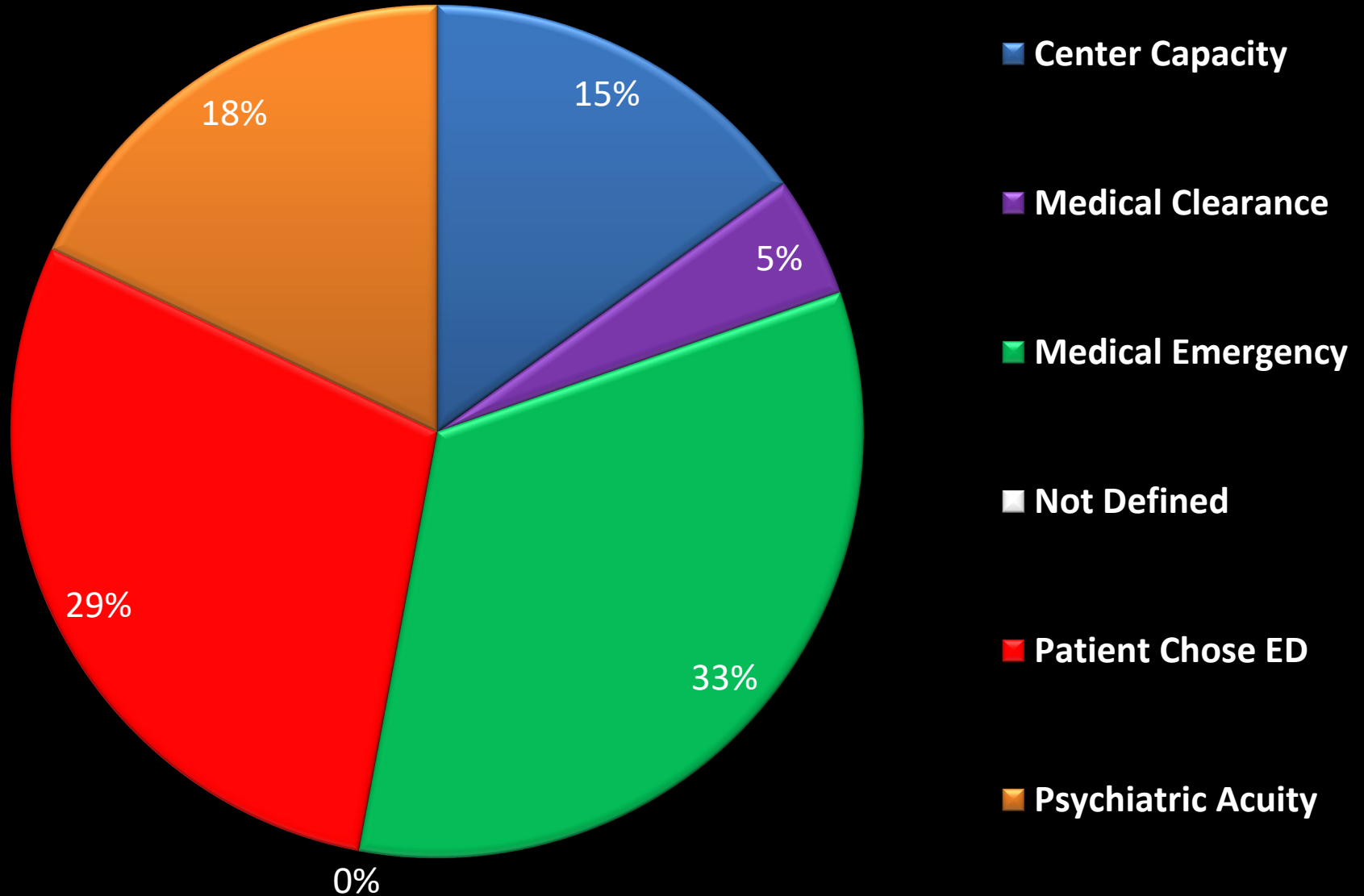
## MH/SA Alternate Destinations



## Successful APP Alternate Destination %



## Alternate Destination Reason for ED Transport



# Misc. Clinical Reports

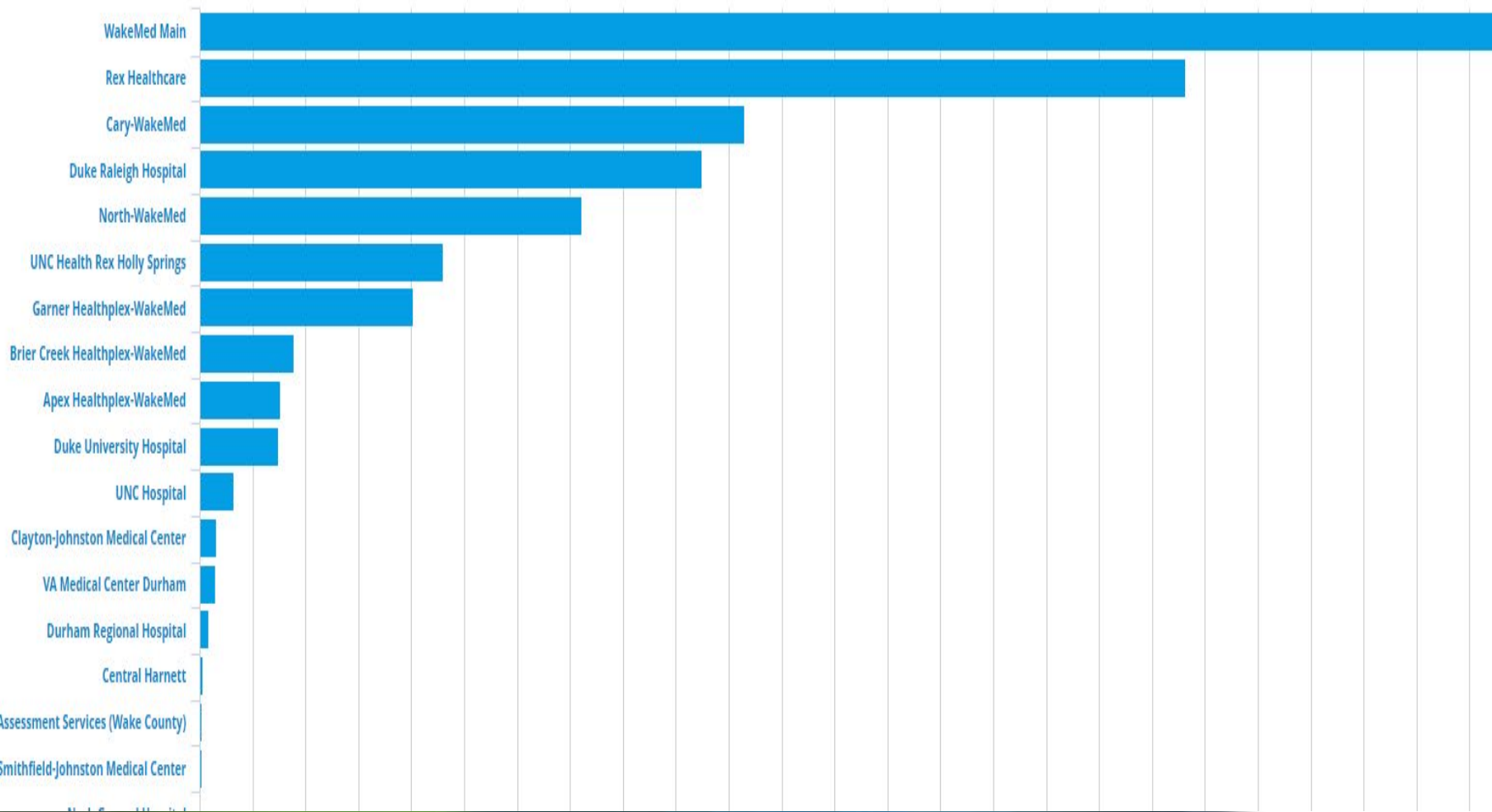
# Transports By Facility

21,294

RECORDS

In Selected Time Slice

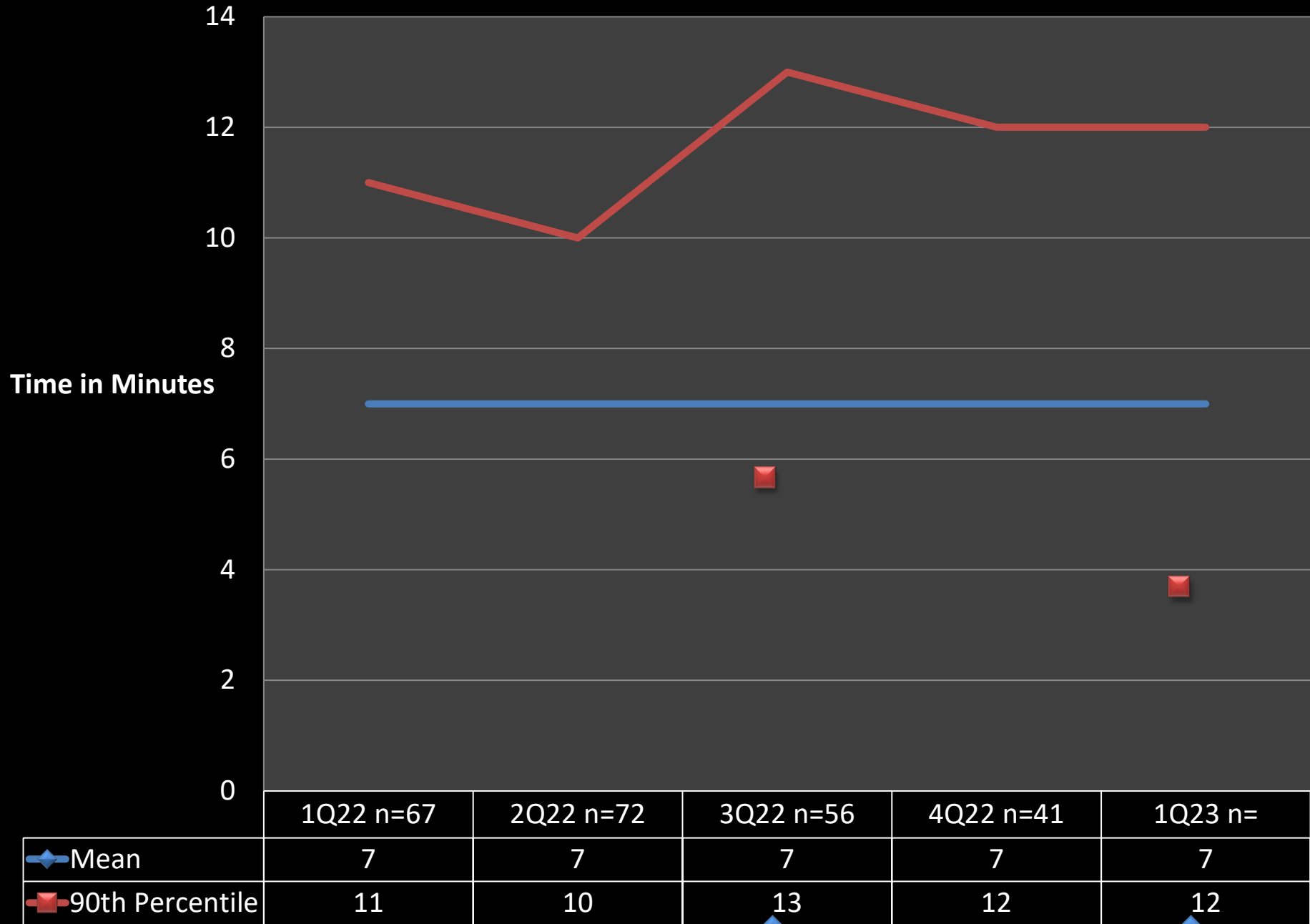
Jan 1, 2023 - Mar 31, 2023 ▼



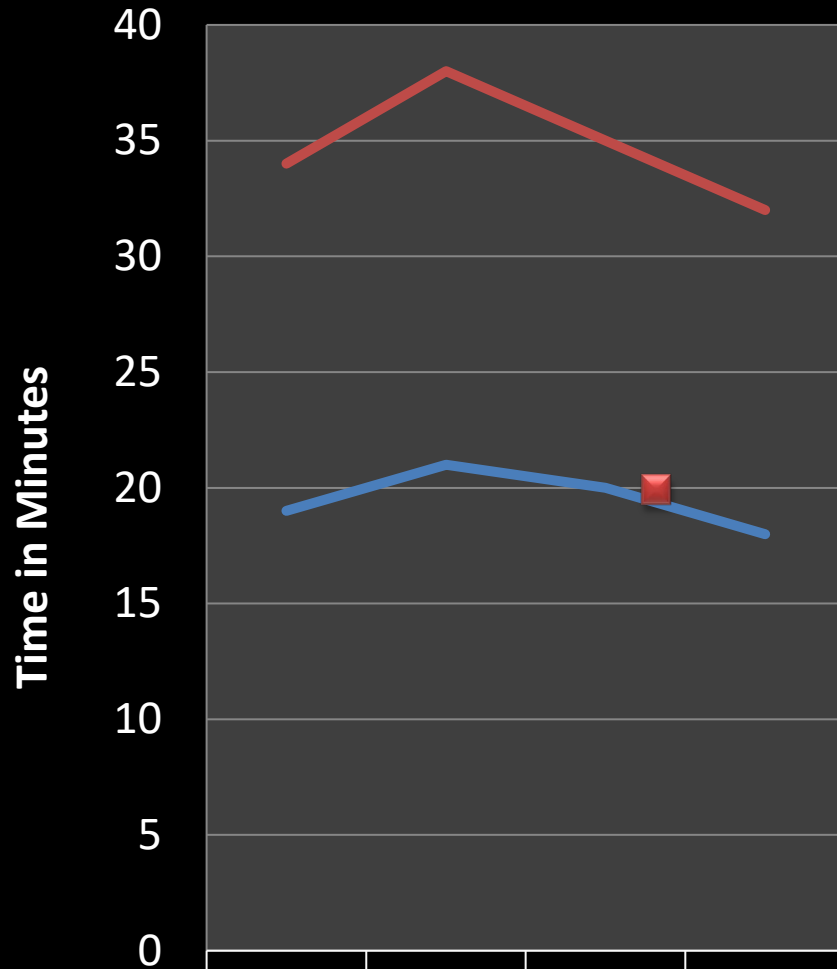


# Wake EMS System

## Penetrating Trauma Scene Times

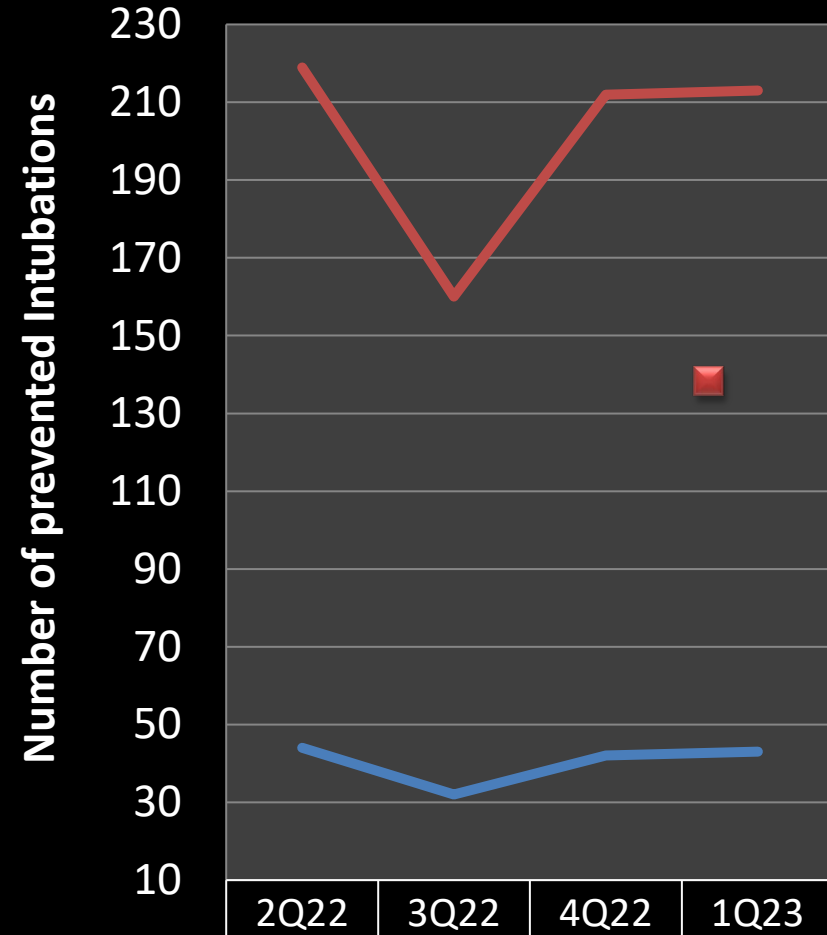


## Wake EMS System CPAP Application Time



Mean	19	21	20	18
90th Percentile	34	38	35	32

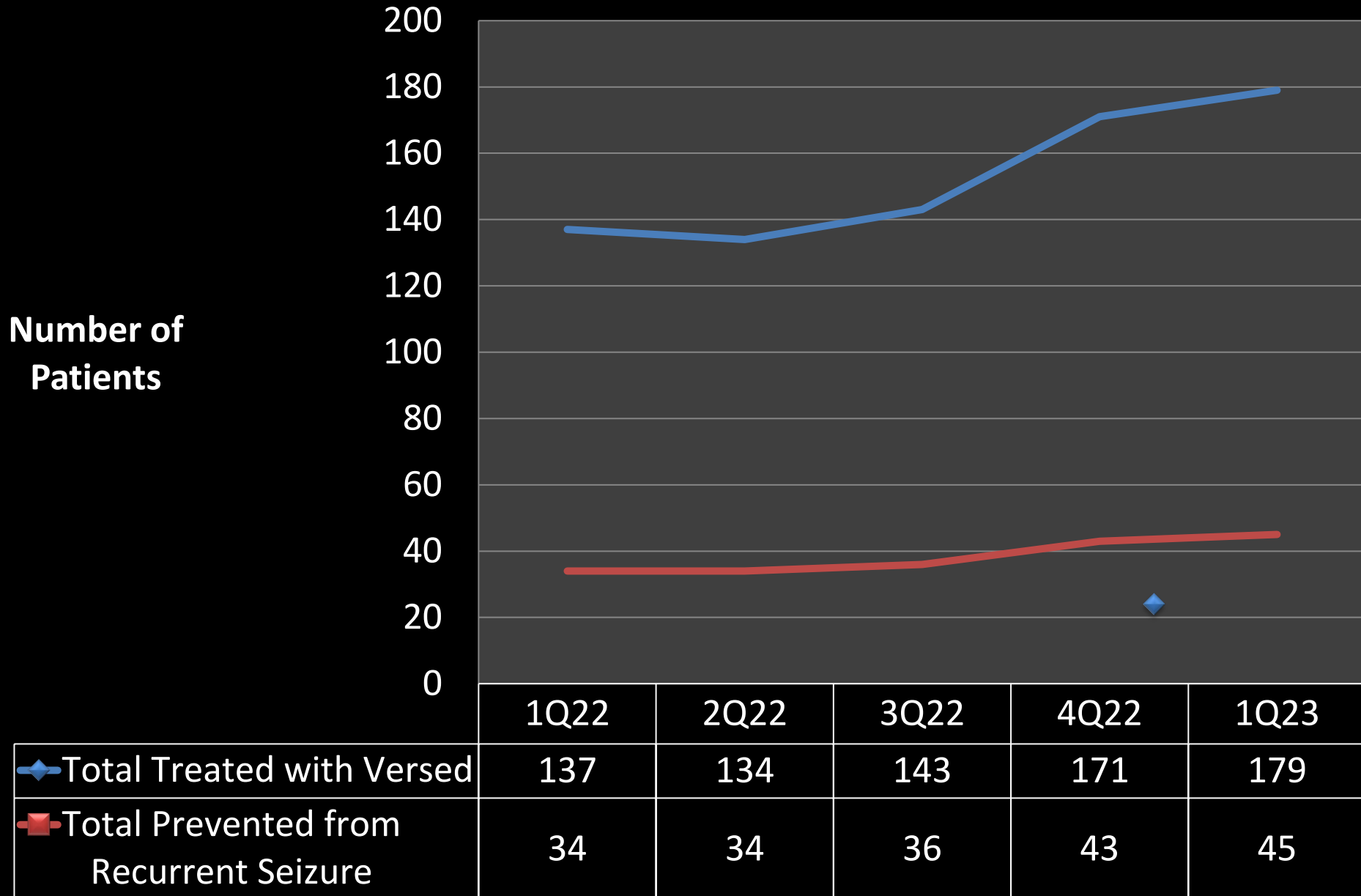
## Wake EMS System Intubation Prevented with CPAP



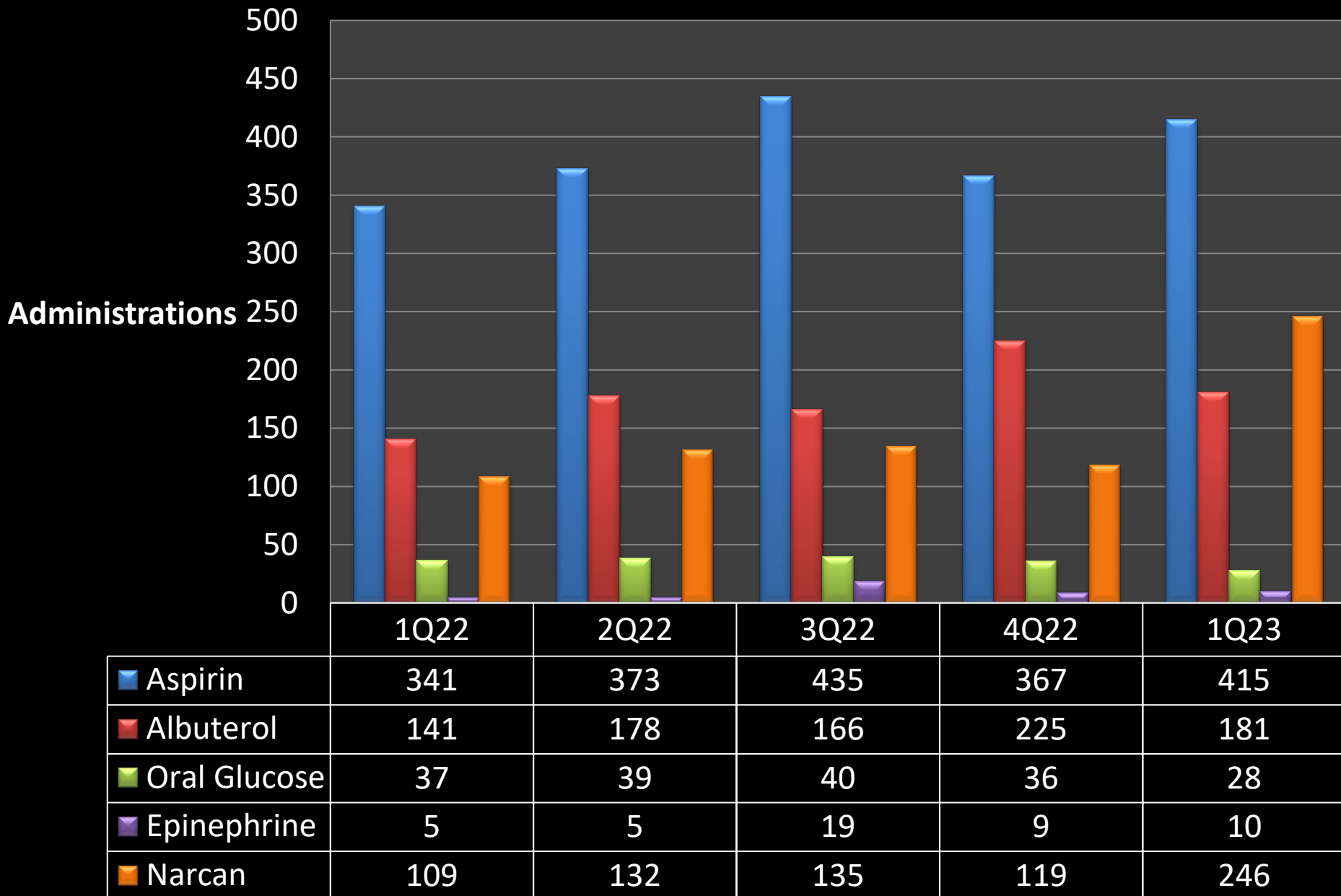
Intubation Prevented	44	32	42	43
Treated with CPAP	219	160	212	213

# Wake EMS System

## Seizure Patients Treated with Versed



# Medications Administered by First Responders – Derived from EMS Documentation

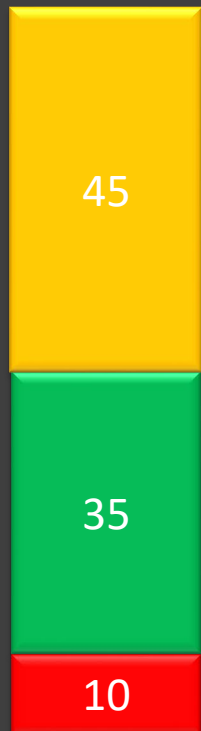


# Reason for OMD Contact

■ Automatic Notification

■ Medical Control Order

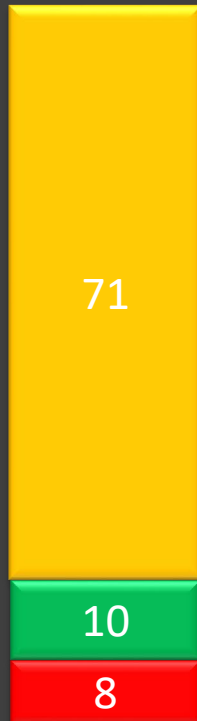
■ Unusual Event



10

35

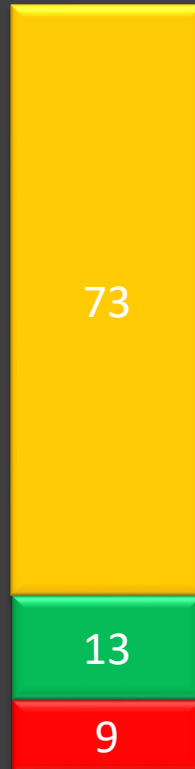
45



8

10

71



9

13

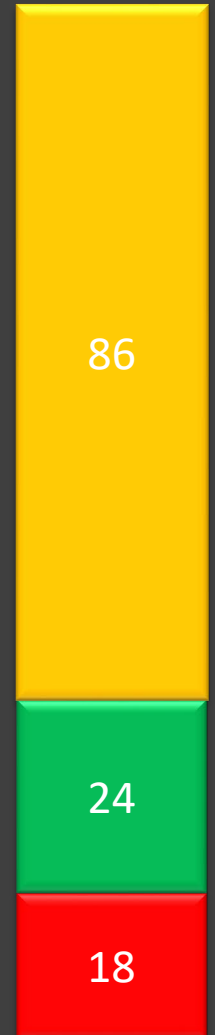
73



16

24

58



18

24

86

1st Qtr 2022

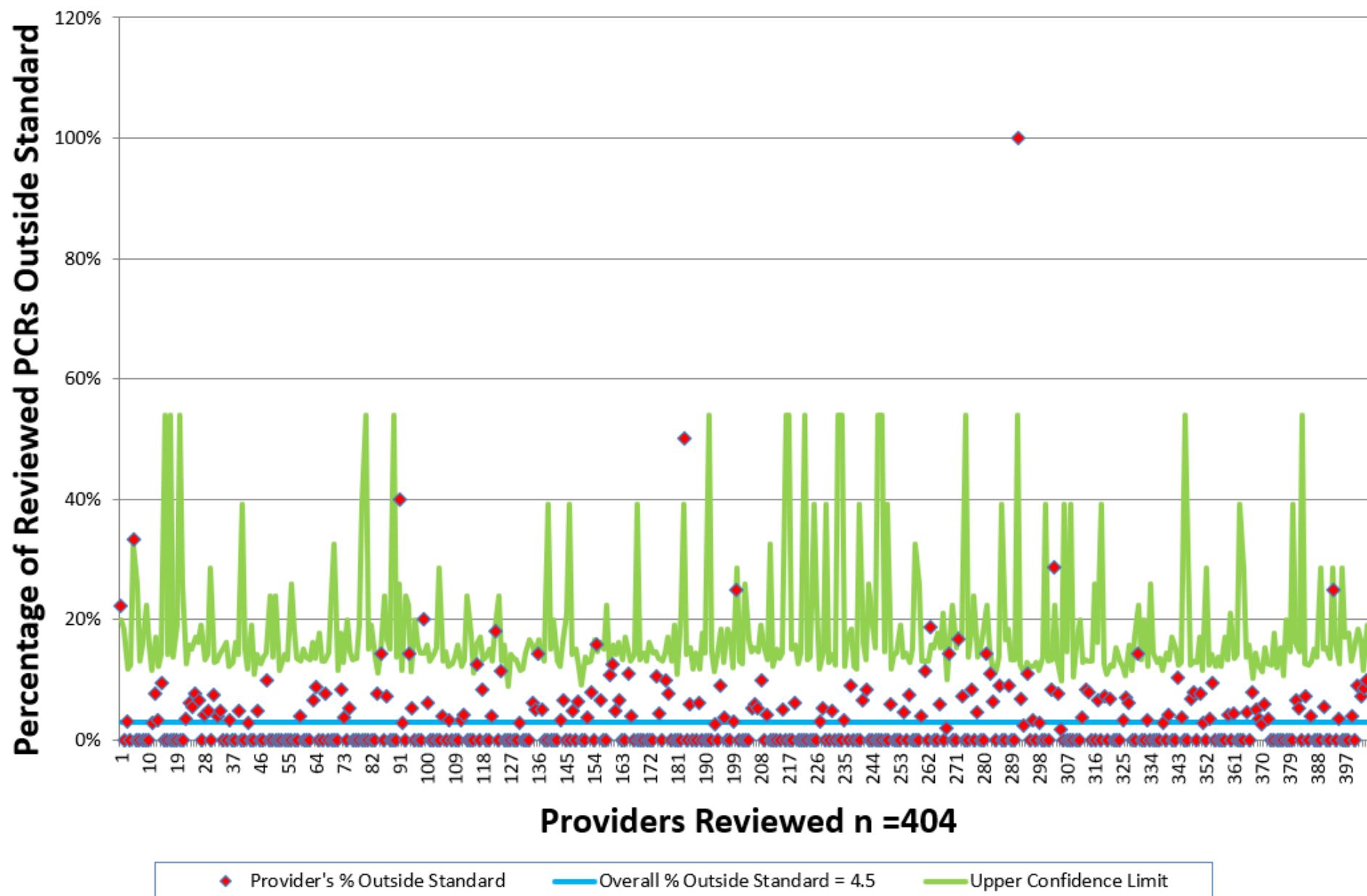
2nd Qtr 2022

3rd Qtr 2022

4th Qtr 2022

1st Qtr 2023

# Clinical Care Outside Standard (based on EBM Bundles, n = 7671 PCRs)



# NURSE NAVIGATION PROGRAM

 Right Care

 Right Time

 Right Place



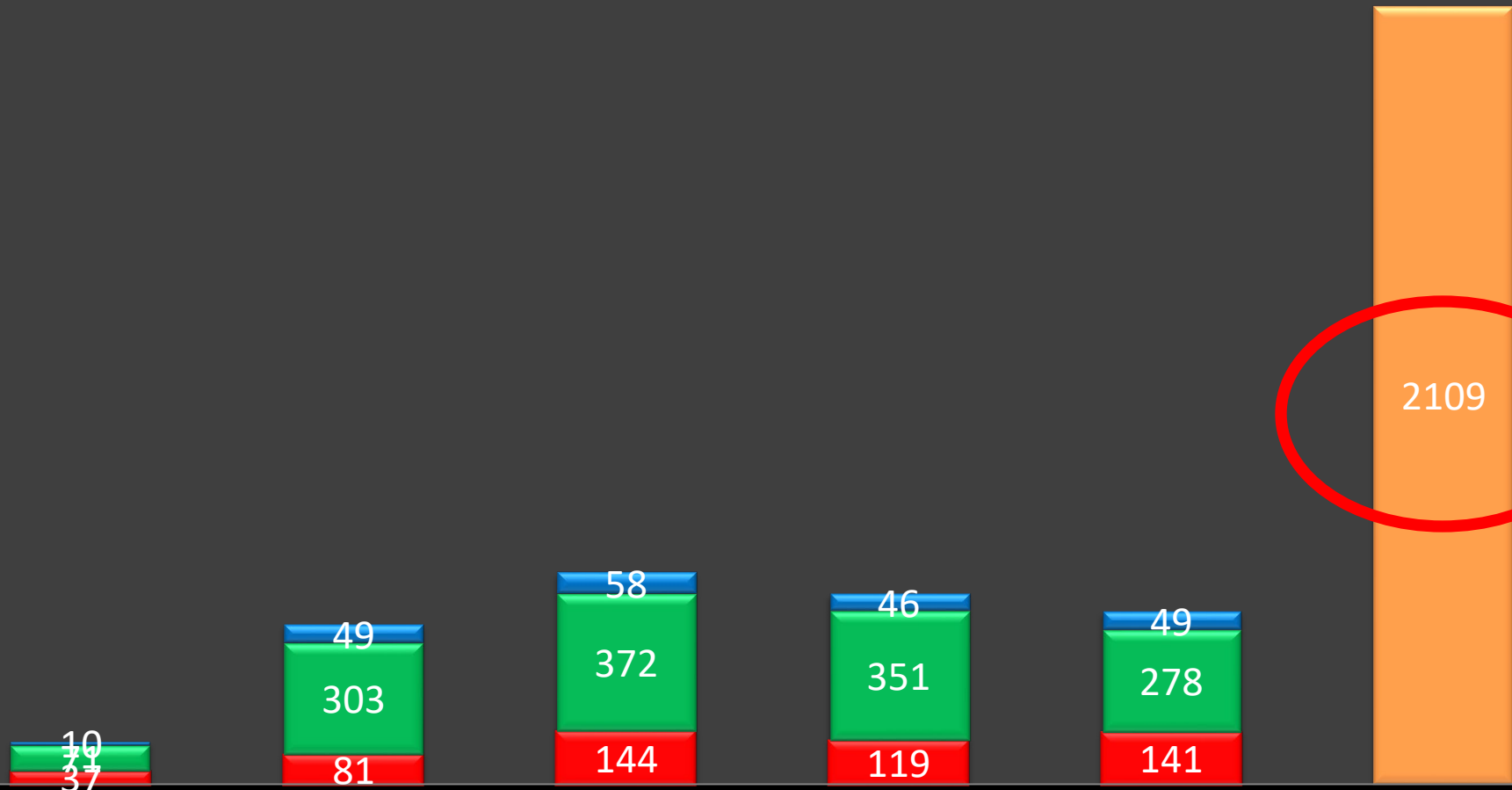
# NNL Patients Diverted from EMS/ED

■ Referred to Urgent Care

■ Nurse Advice Self Care

■ Referred to Telehealth

■ Total Diversions



1Q22 n=115

2Q22 n=433

3Q22 n=573

4Q22 n=516

1Q23 n=468

Total

# Questions?

