



Peer Review Clinical Data

3rd QUARTER 2022





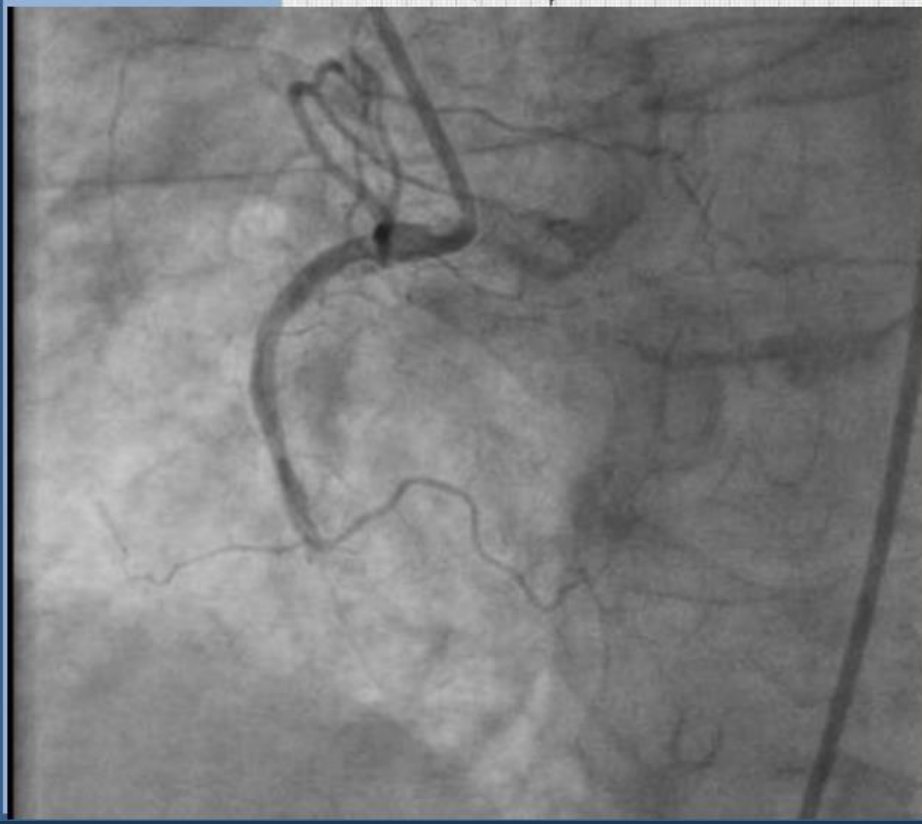
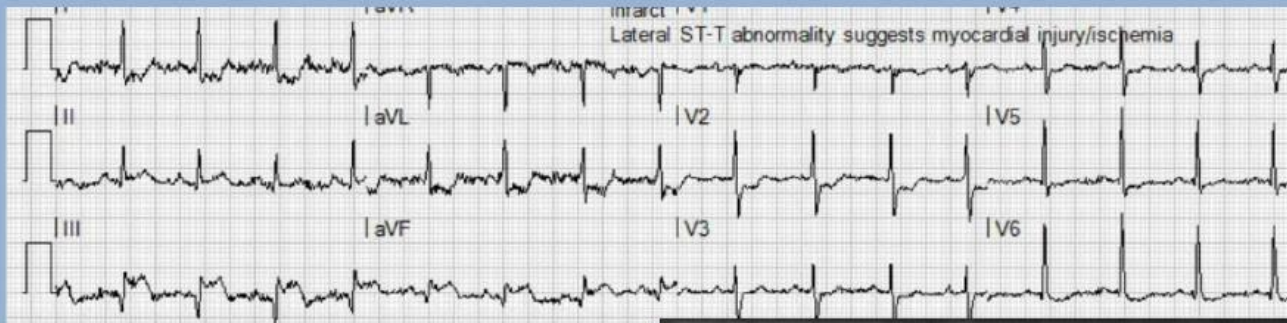
Welcome, MD3!

Dr. Andrew Godfrey

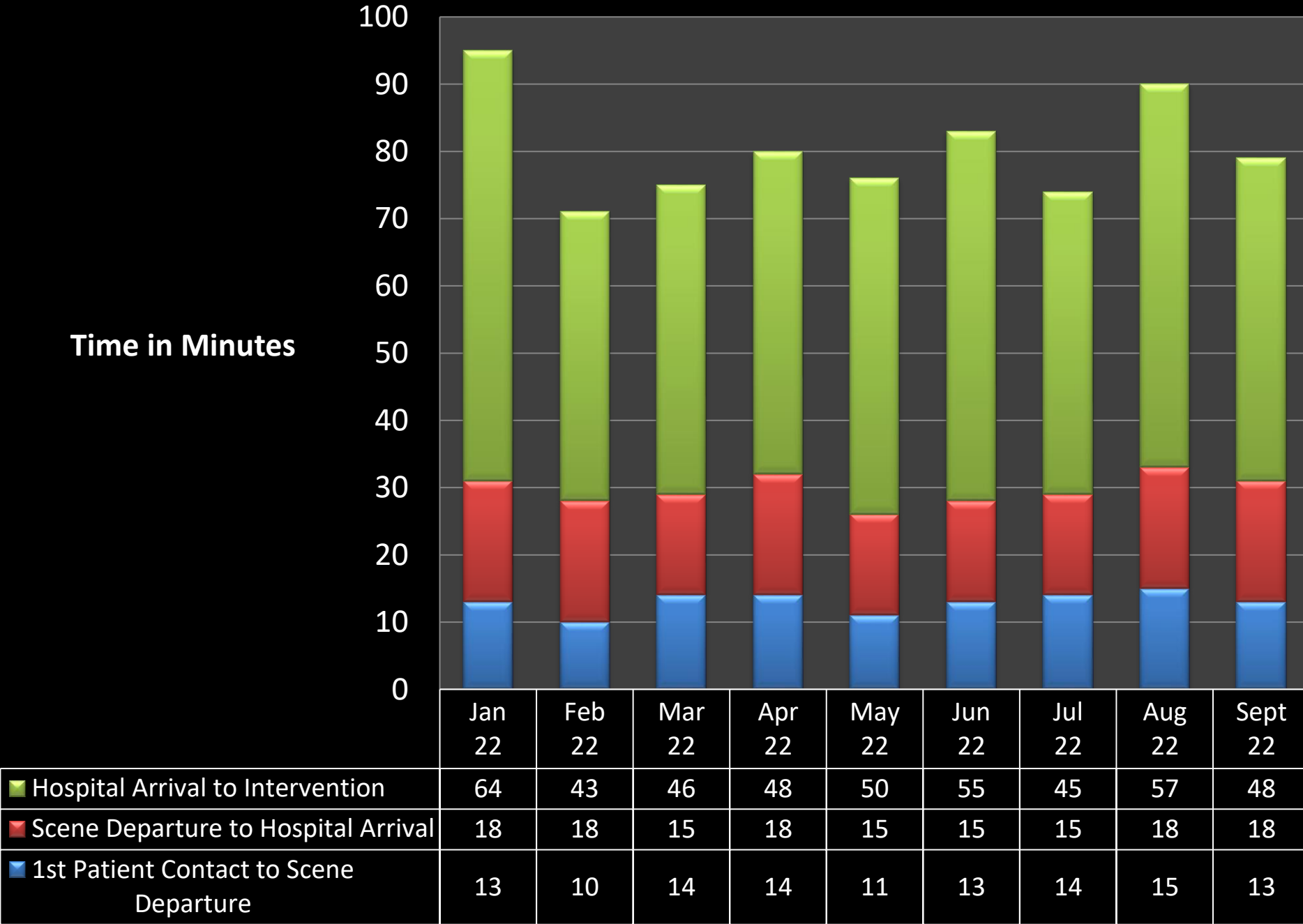
Associate Medical Director



STEMI



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



Patients Transported by EMS with Suspected or Confirmed STEMI



STEMI Overtriage - 3Q2022

**STEMIs activated
by EMS: 60**

Total STEMI Activations cancelled as reported by hospitals: n= 46

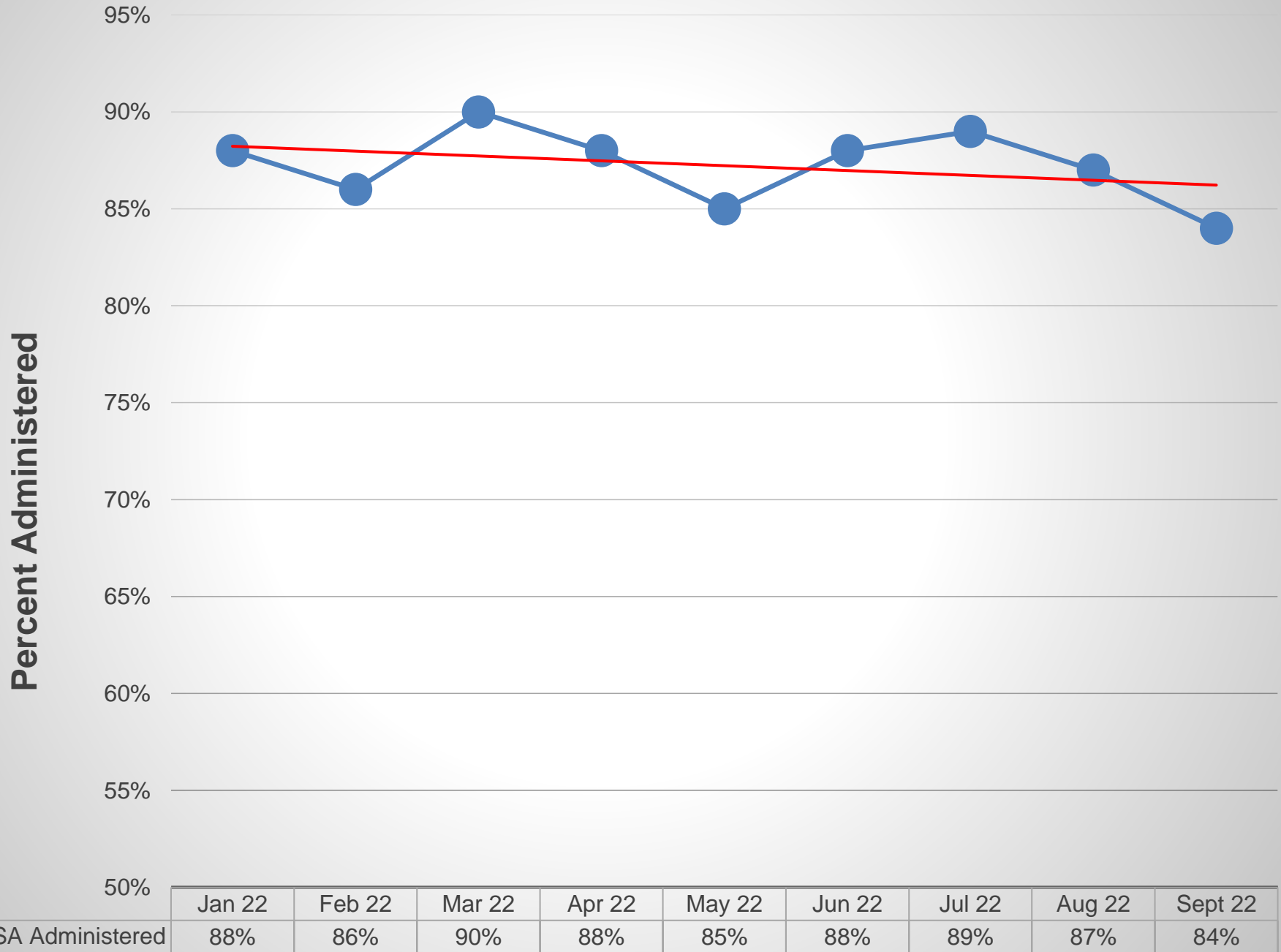
- Activations sent for consult only: n= 22
- EMS did not activate or send for consult: n= 2

STEMIs activated by EMS that were cancelled by Hospital n= 22

Category	Reason Cancelled	Final Disposition = Triage Correctly	Final Disposition = Over Triage
ED EKG Does Not Meet STEMI Criteria	8	4	4
ST Elevation Resolved	3	3	0
Expired	3	3	0
STEMI Imposter (LVH, J Point Elev., Etc)	3	3	0
Other	5	3	2
			10% Overtriage Rate

Wake EMS

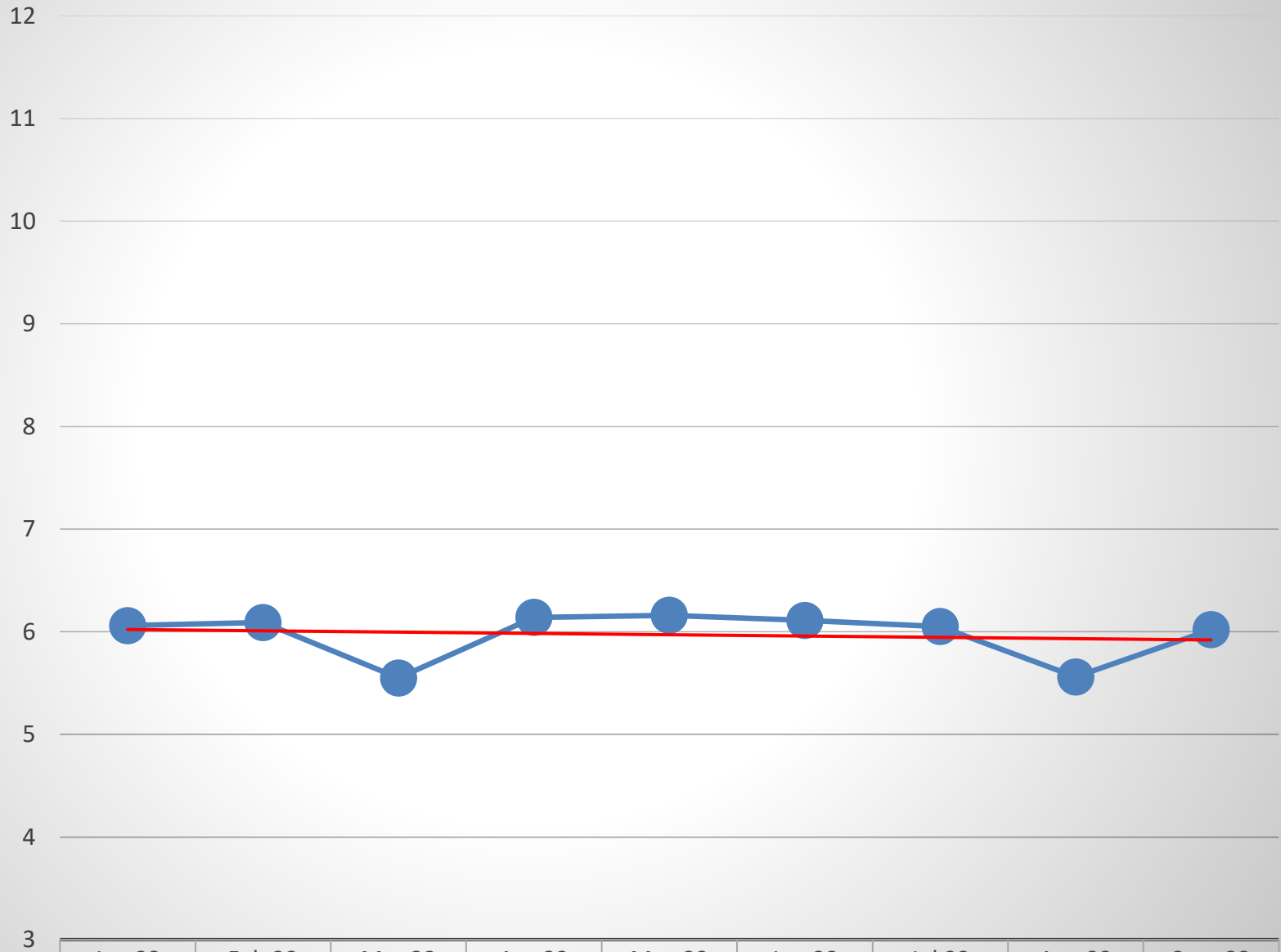
Chest Pain Patient Age>35 Who Had ASA Administered



Wake EMS

Chest Pain Patient Contact to 12lead Time in Minutes

Time to 12 Lead



Time to 12 Lead (min)

Jan 22

Feb 22

Mar 22

Apr 22

May 22

Jun 22

Jul 22

Aug 22

Sept 22

6.06

6.09

5.55

6.14

6.16

6.11

6.05


5.56

6.02

Wake EMS

Chest Pain Patient Contact to 12lead Time in Minutes

All Groups

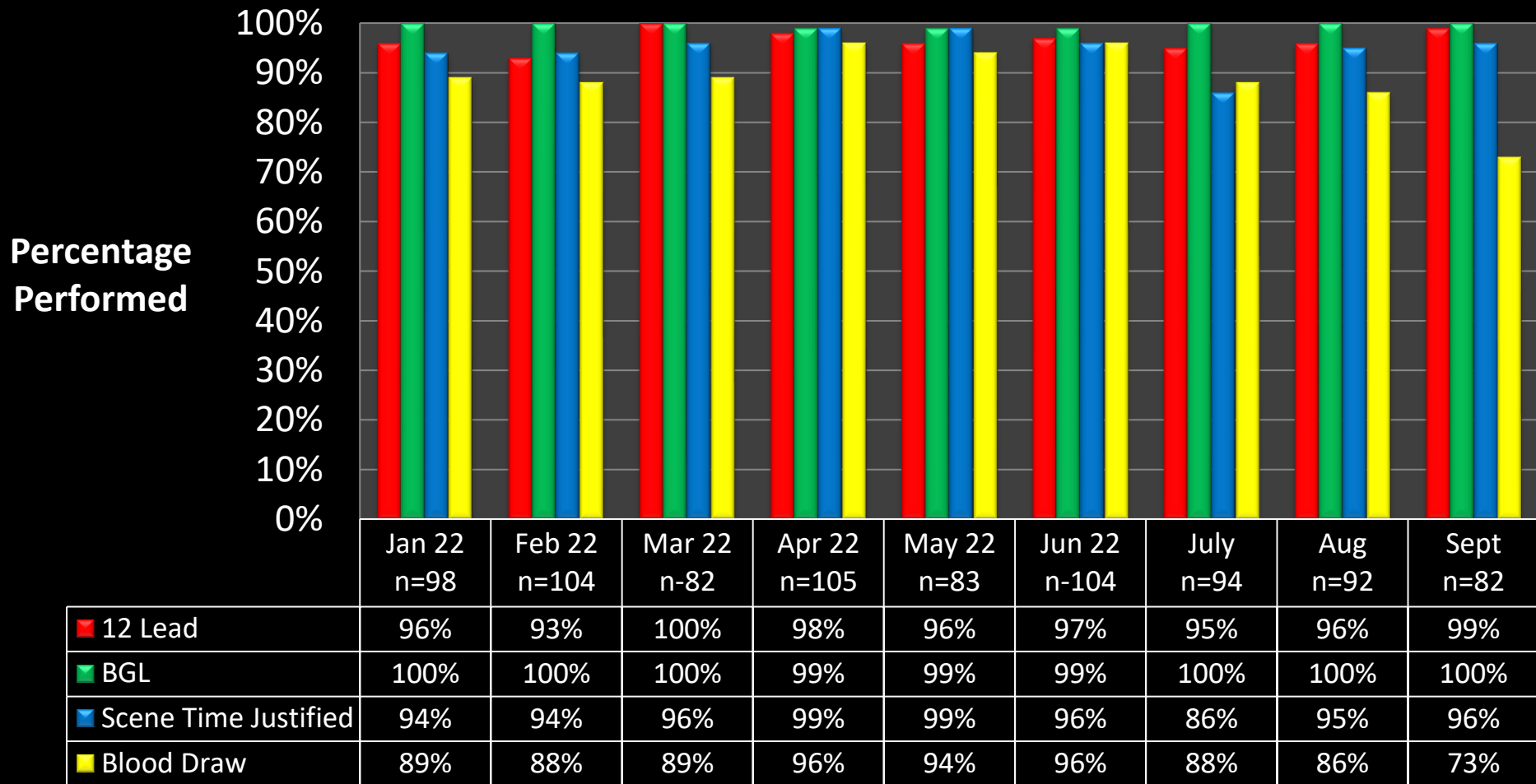
	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Total	
00:00 - 04:59		203	187	216	183	215	221	232		210	1,920
5:00 - 7:59		137	115	137	126	158	158	165	160	135	1,291
8:00 - 9:59		53	42	57	42	48	45	49	44	37	417
10:00 - 11:59		22	22	15	24	26	24	18	16	25	192
12:00 - 14:59		21	13	19	14	13	15	19	19	18	151
15:00 - 19:59		8	6	5	11	8	12	14	10	9	83
20:00 - 24:59		1	5	3	5	7	2	2	8	3	36
25:00 - 29:59		1	2	-	-	3	2	1	-	-	9
Total		446	392	452	405	478	479	500	510	437	4,099

STROKE

Prompt
Compassionate
Clinically Excellent Care

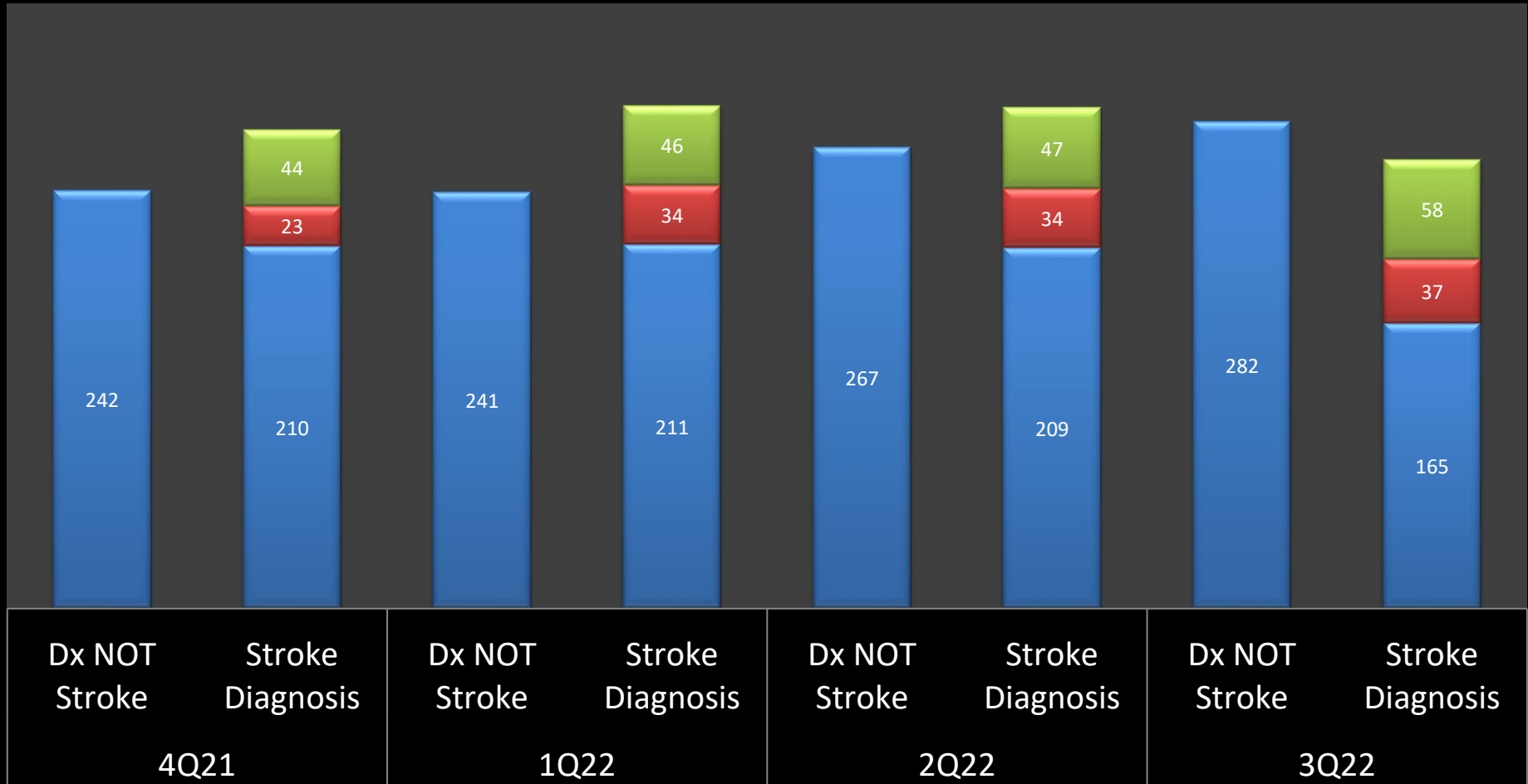
EMS Stroke Evidence Based Medicine Measures

Patients Transported by EMS with Suspected or Confirmed Stroke



Code Strokes by EMS taken to Wake County Hospitals

■ No TPA Given ■ TPA Given ■ ICH

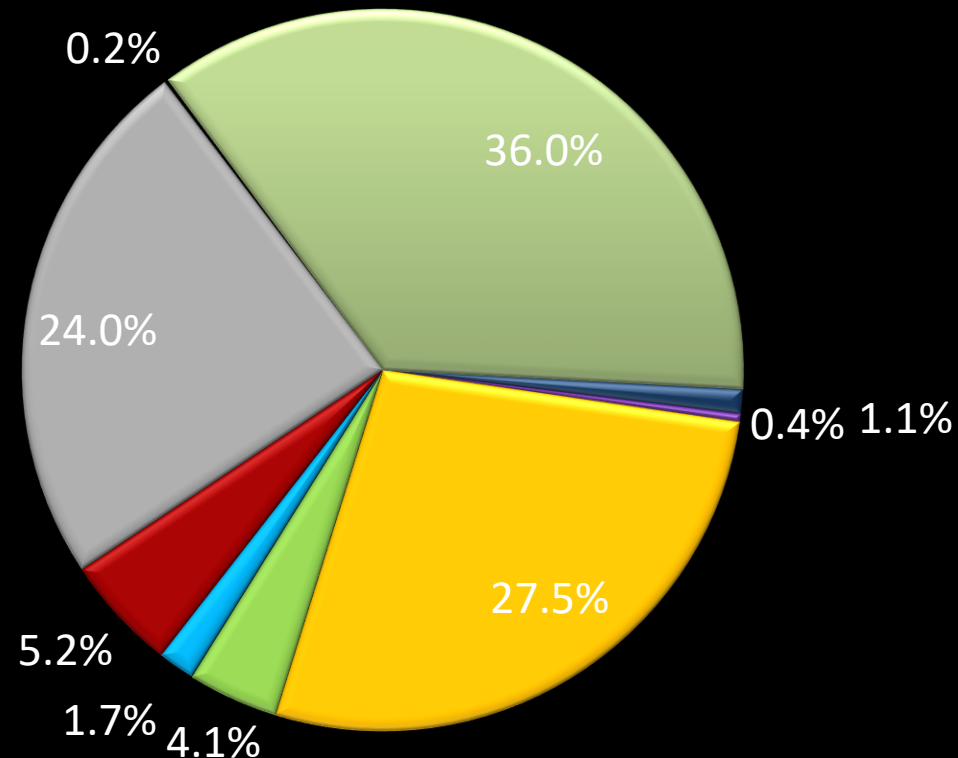


Stroke Intervention

Date	Initial Hospital	2nd Receiving Hospital	Intervention Type	Intervention Performed	Initial ED to Groin Puncture	TICI
18-Aug-22	Rex Healthcare	Rex	IA	Thrombectomy	1:42:06	1
12-Jul-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	2:42:01	2B
29-Aug-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	2:09:42	0
13-Aug-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	2:09:29	0
22-Sep-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	1:07:05	2C
27-Aug-22	Rex Healthcare	Rex	IA	Thrombectomy	1:19:21	3
29-Jul-22	Rex Healthcare	Rex	IA	Thrombectomy	1:04:24	3
27-Jul-22	WakeMed Main	WakeMed Main	tPA-IA	Thrombectomy	1:20:05	3
09-Jul-22	Rex Healthcare	Rex	IA	Thrombectomy	1:38:13	2C
22-Aug-22	Cary-WakeMed	WakeMed Cary	tPA-IA	Thrombectomy	1:10:14	3
24-Sep-22	WakeMed Main	WakeMed Main	tPA-IA	Thrombectomy	1:31:01	3
26-Jul-22	WakeMed Main	WakeMed Main	IA	Thrombectomy	1:04:26	2b
27-Aug-22	Rex Healthcare	Rex	IA	Thrombectomy	1:50:57	3
12-Sep-22	Rex Healthcare	Rex	IA	Thrombectomy	9:37:00	2C
21-Sep-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	2:02:17	2C
19-Aug-22	Cary-WakeMed	WakeMed Cary	IA	Thrombectomy	1:12:20	2B
11-Jul-22	WakeMed Main	WakeMed Main	tPA-IA	Thrombectomy	6:25:13	3
08-Sep-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	2:10:43	2C
08-Aug-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	1:04:00	3
24-Aug-22	Rex Healthcare	Rex	tPA-IA	Thrombectomy	3:59:58	3

Destination for Wake EMS Patients with Suspected or Confirmed Stroke 3rd Qtr 2022

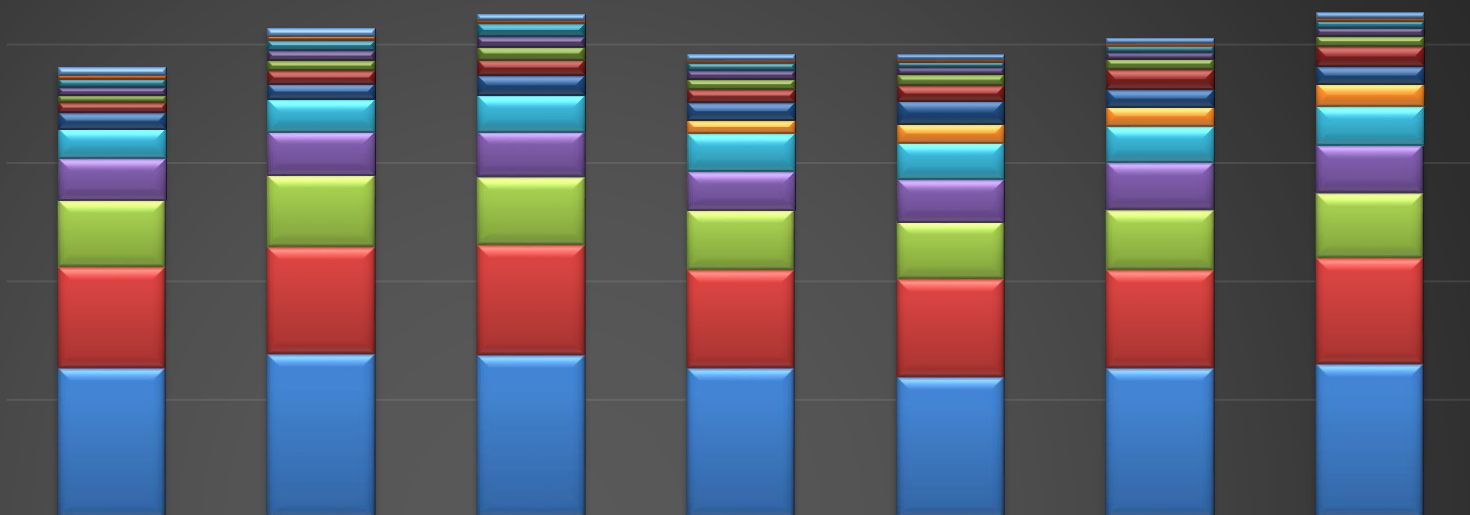
- Apex Healthplex-WakeMed
- Cary-WakeMed
- Garner Healthplex-WakeMed
- UNC Rex Raleigh
- WakeMed Main
- Brier Creek Healthplex-WakeMed
- Duke Raleigh Hospital
- North-WakeMed
- UNC Rex Holly Springs



Total Transports for the System

NUMBER OF TRANSPORTS

25000
20000
15000
10000
5000
0



	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22
Other Out of County	315	332	259	229	163	196	217
UNC	153	171	117	117	125	98	124
Apex - WakeMed	348	438	556	325	248	270	283
Duke Durham	357	418	440	368	300	276	363
Brier Creek - WakeMed	289	418	560	436	450	444	435
WakeMed Childrens ED	411	562	636	543	658	834	823
WakeMed - Garner	695	649	859	747	974	744	748
Rex - Holly Springs				564	799	839	963
WakeMed - North	1264	1392	1540	1601	1534	1503	1627
Duke Raleigh	1771	1847	1941	1655	1815	2029	2059
WakeMed - Cary	2824	3021	2868	2544	2431	2548	2731
Rex Healthcare	4273	4522	4656	4135	4119	4135	4476
WakeMed Main	6331	6937	6864	6329	5969	6341	6505

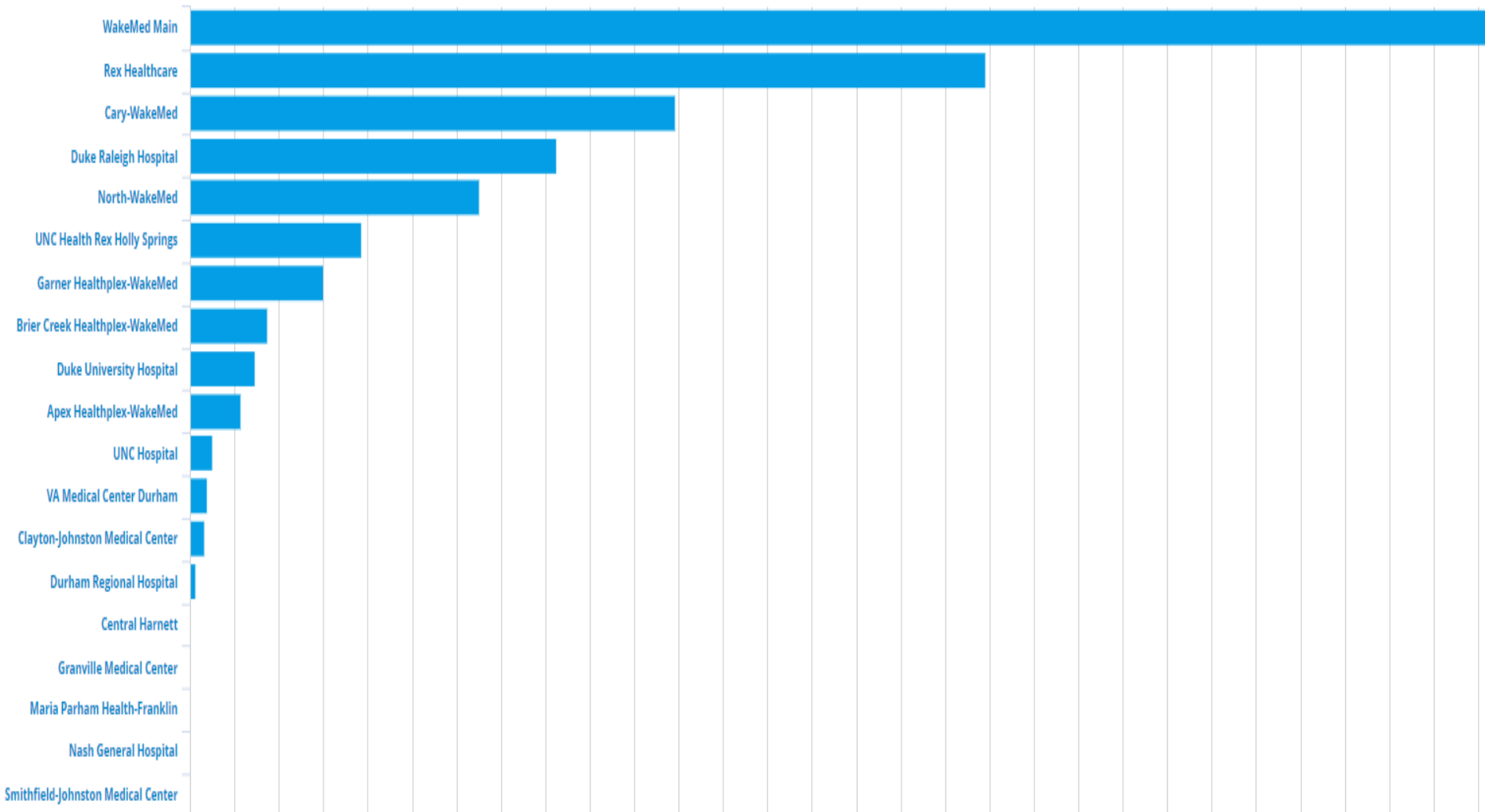
Transports By Facility

21,358

RECORDS

In Selected Time Slice

Jul 1, 2022 - Sep 30, 2022 ▾



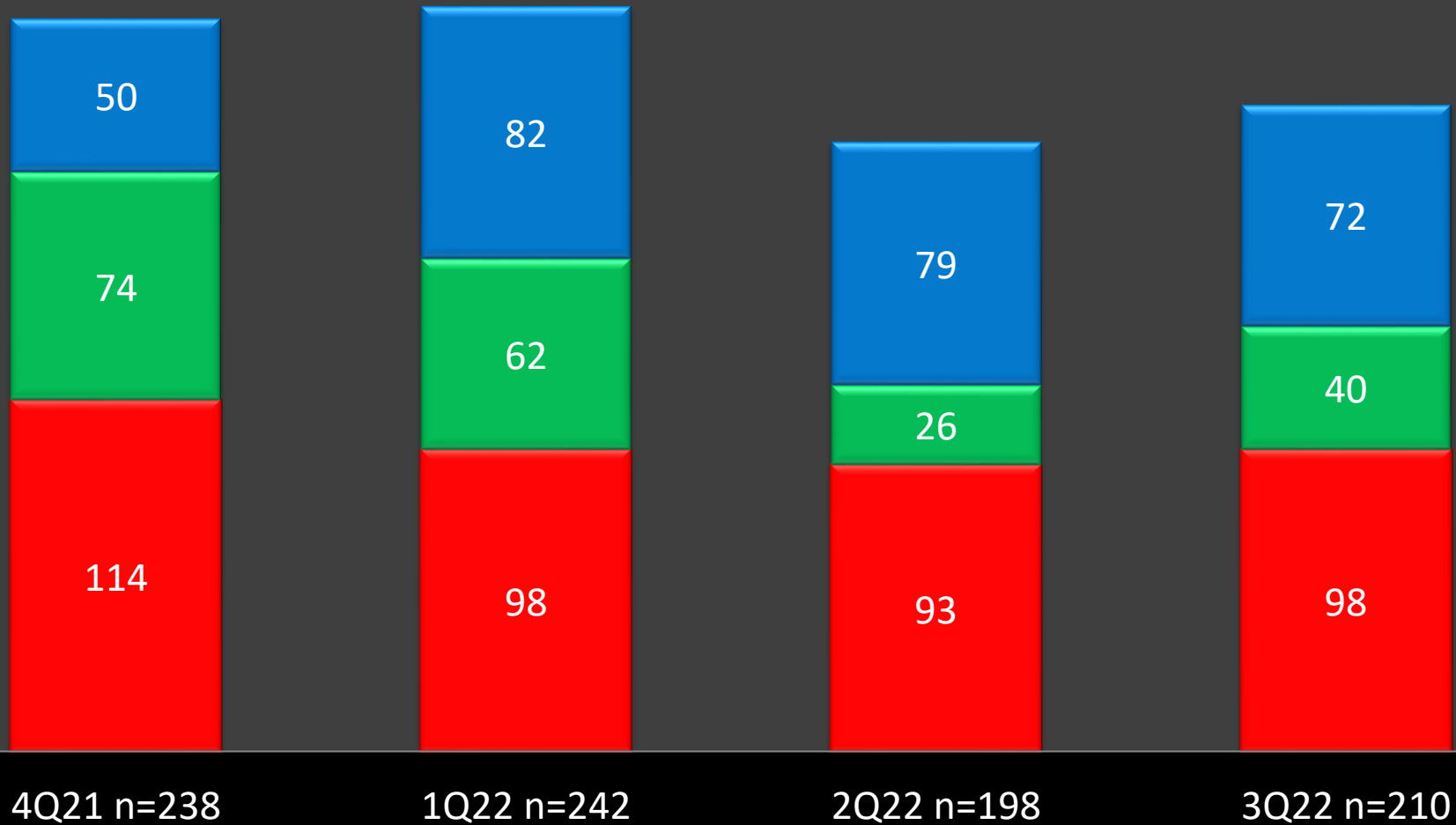
Cardiac Arrest

Wake EMS Worked Cardiac Arrest

■ Resuscitation Ceased in the Field

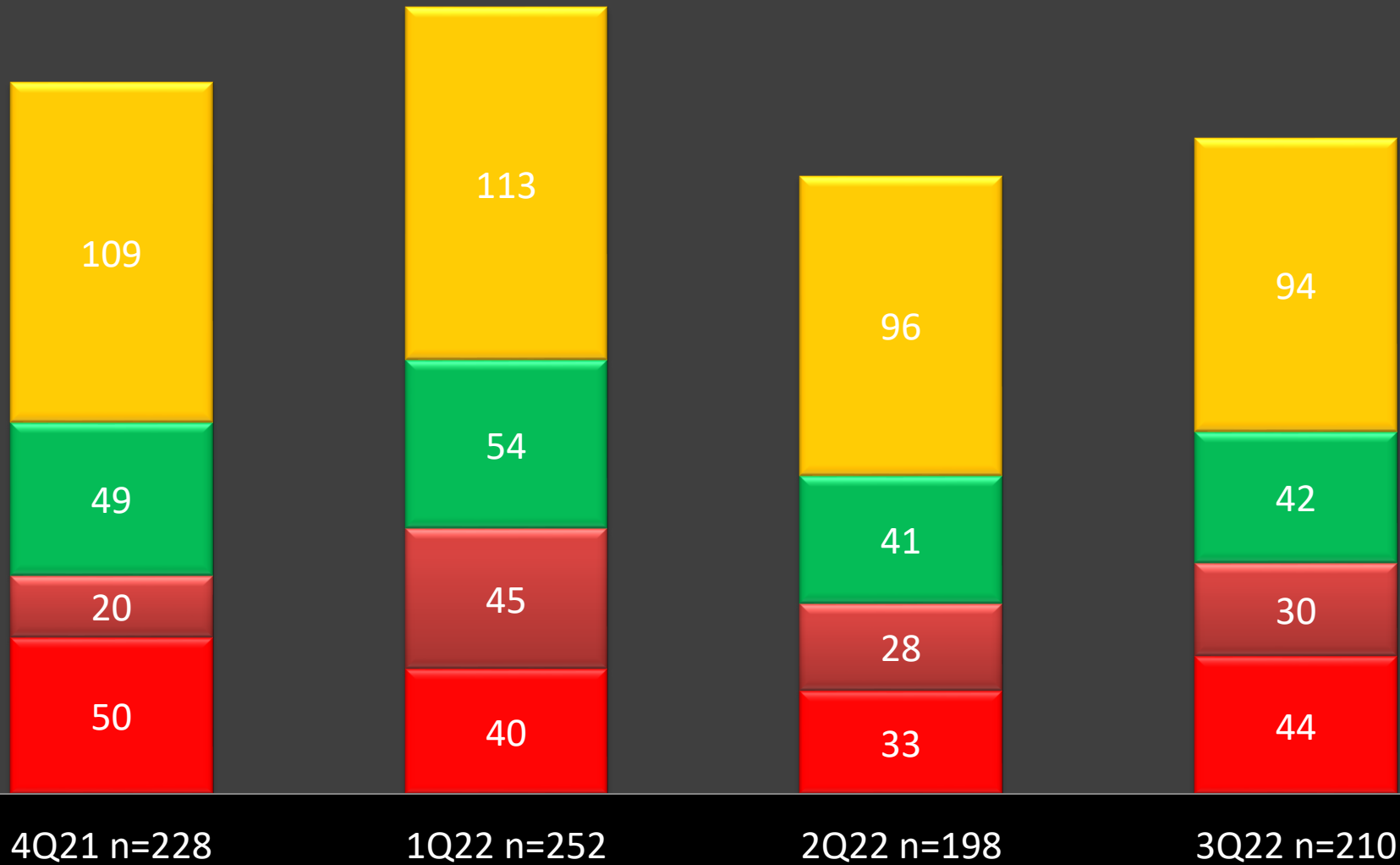
■ Transport to Hospital with no ROSC

■ Transport to Hospital with ROSC

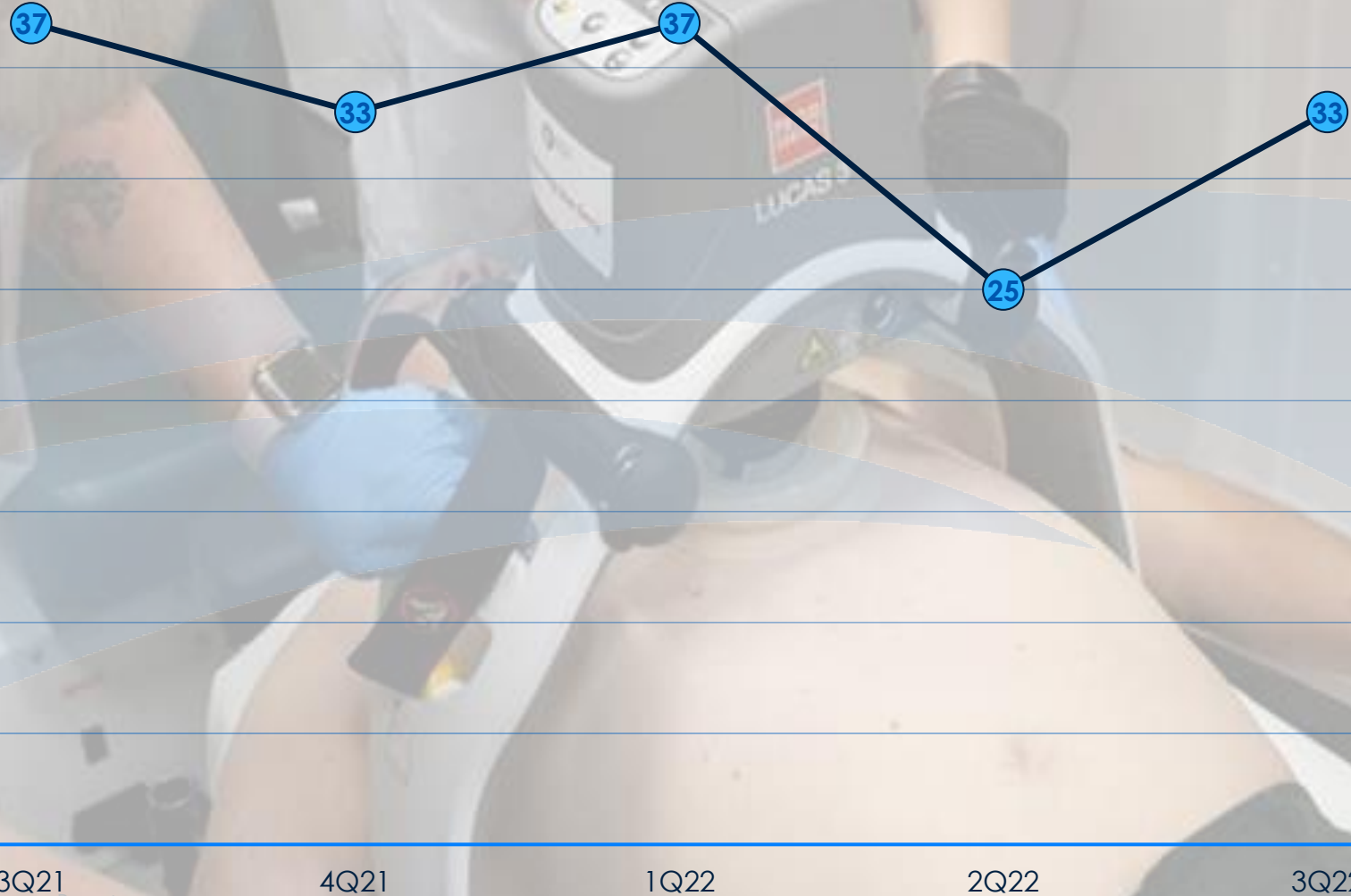


Cardiac Arrest Initial Rhythm

■ Aystole ■ PEA ■ VF/VT ■ Unknown Unshockable



Total LUCAS Uses



3Q21

4Q21

1Q22

2Q22

3Q22

Prompt
Compassionate
Clinically Excellent Care

Dispatcher Assisted CPR (DACPR)

DACPR METRICS

Characteristic	Wake County EMS System
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Bystander CPR (Module-based)

N=142

Bystander CPR with dispatcher assistance	83 (58.5%)
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Bystander CPR without dispatcher assistance	10 (7.0%)
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Dispatcher CPR Instructions

Dispatcher recognized need for CPR	114 (85.7%)
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CPR instructions started	105 (78.4%)
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CPR instructions refused	0 (0.0%)
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Compressions started	83 (62.9%)
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DACPR METRICS

Barriers to CPR

N=100

Hang up phone	4 (4.0%)
Language barrier	2 (2.0%)
Difficult patient access	8 (8.0%)
Caller left phone	5 (5.0%)
Overly distraught	15 (15.0%)
Caller refused	0 (0.0%)
Couldn't move patient	38 (38.0%)
Caller not with patient	12 (12.0%)
Patient's status changed	34 (34.0%)
Other	21 (21.0%)
Not Applicable	1 (1.0%)

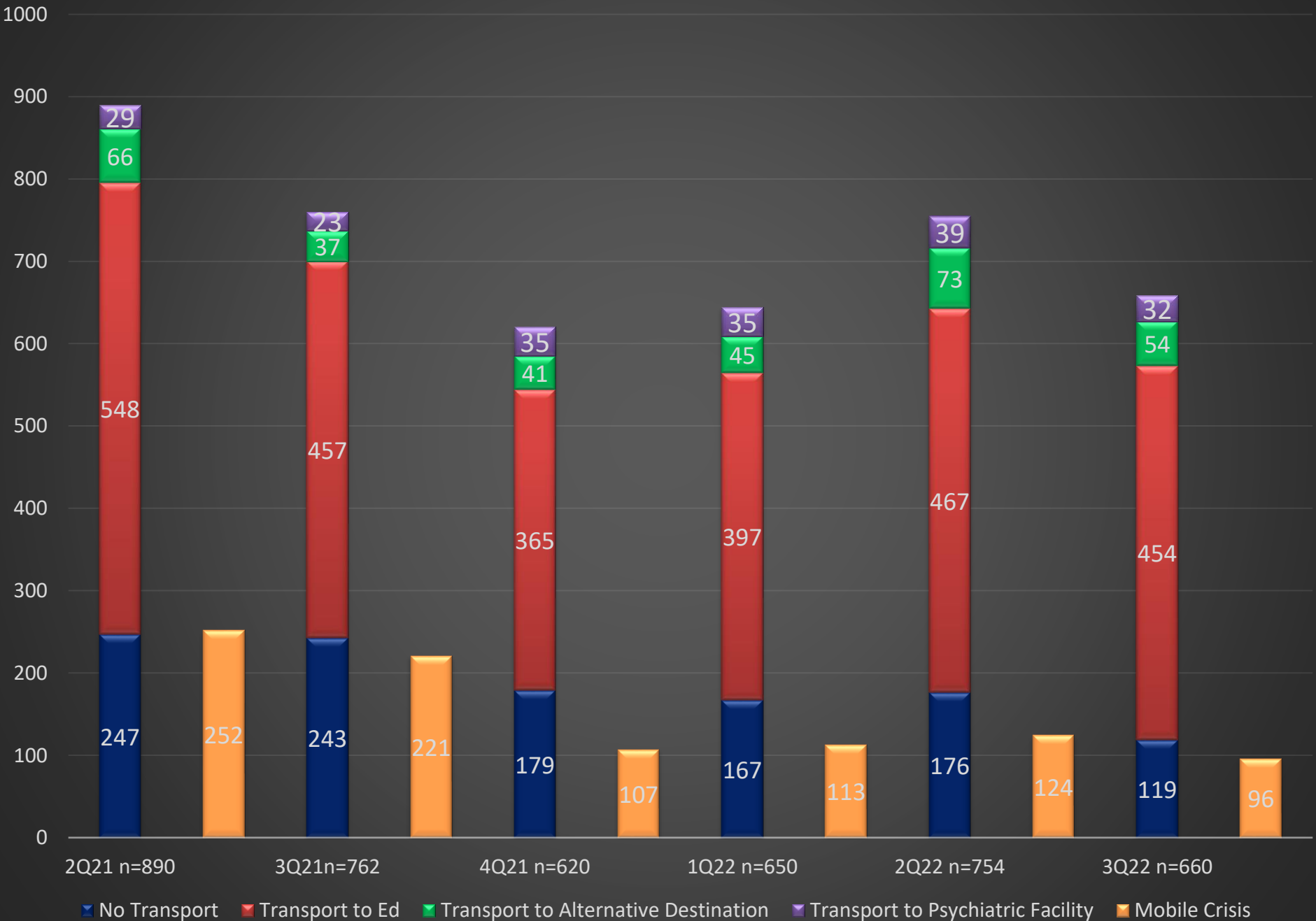
DACPR METRICS

Time Intervals

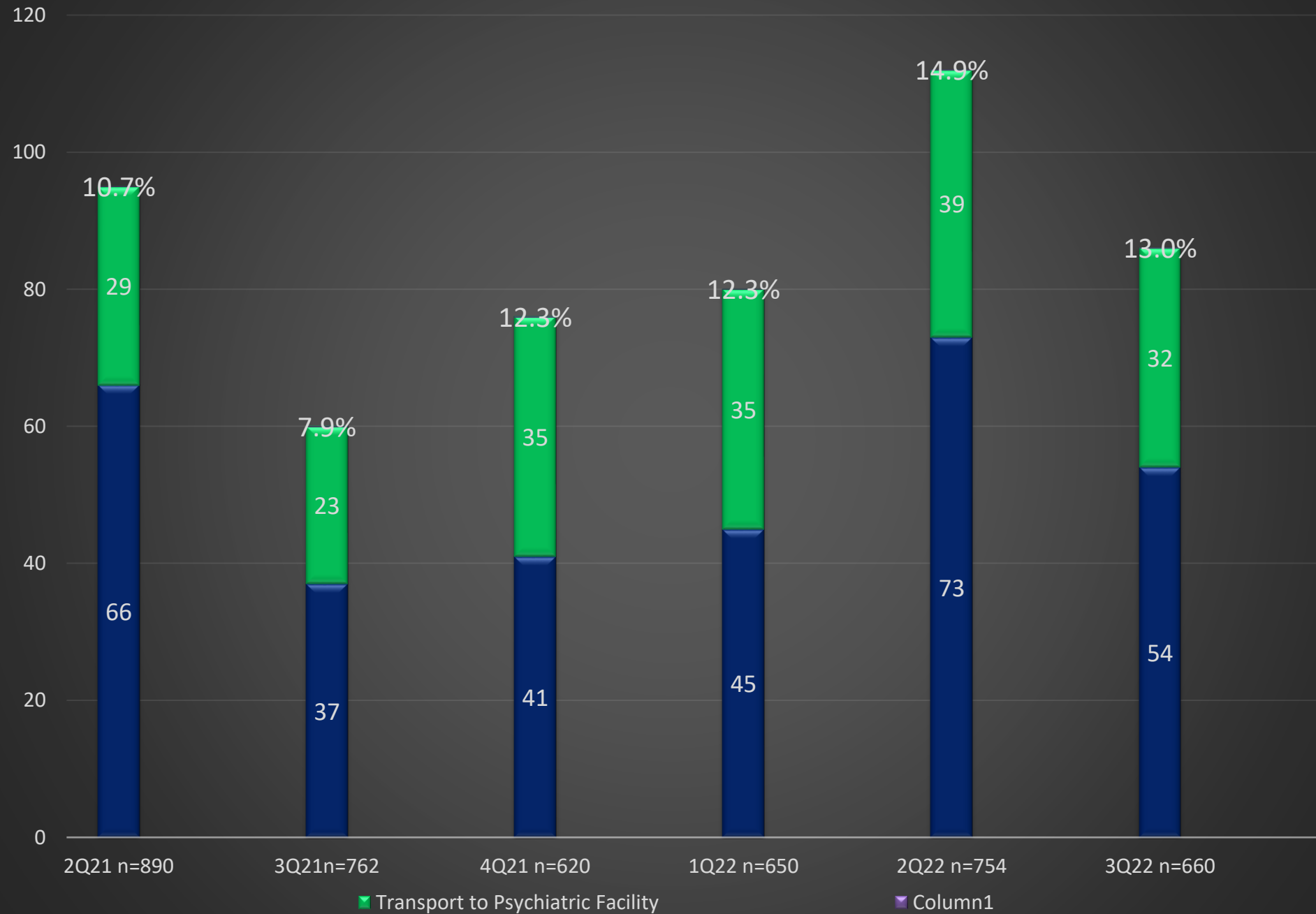
Call receipt to CPR recognition	111
Mean	01:24
Median	00:47
Call receipt to CPR instruction	105
Mean	01:50
Median	01:25
Call receipt to first compression	84
Mean	03:01
Median	02:48

MH/SU Alternate Destination

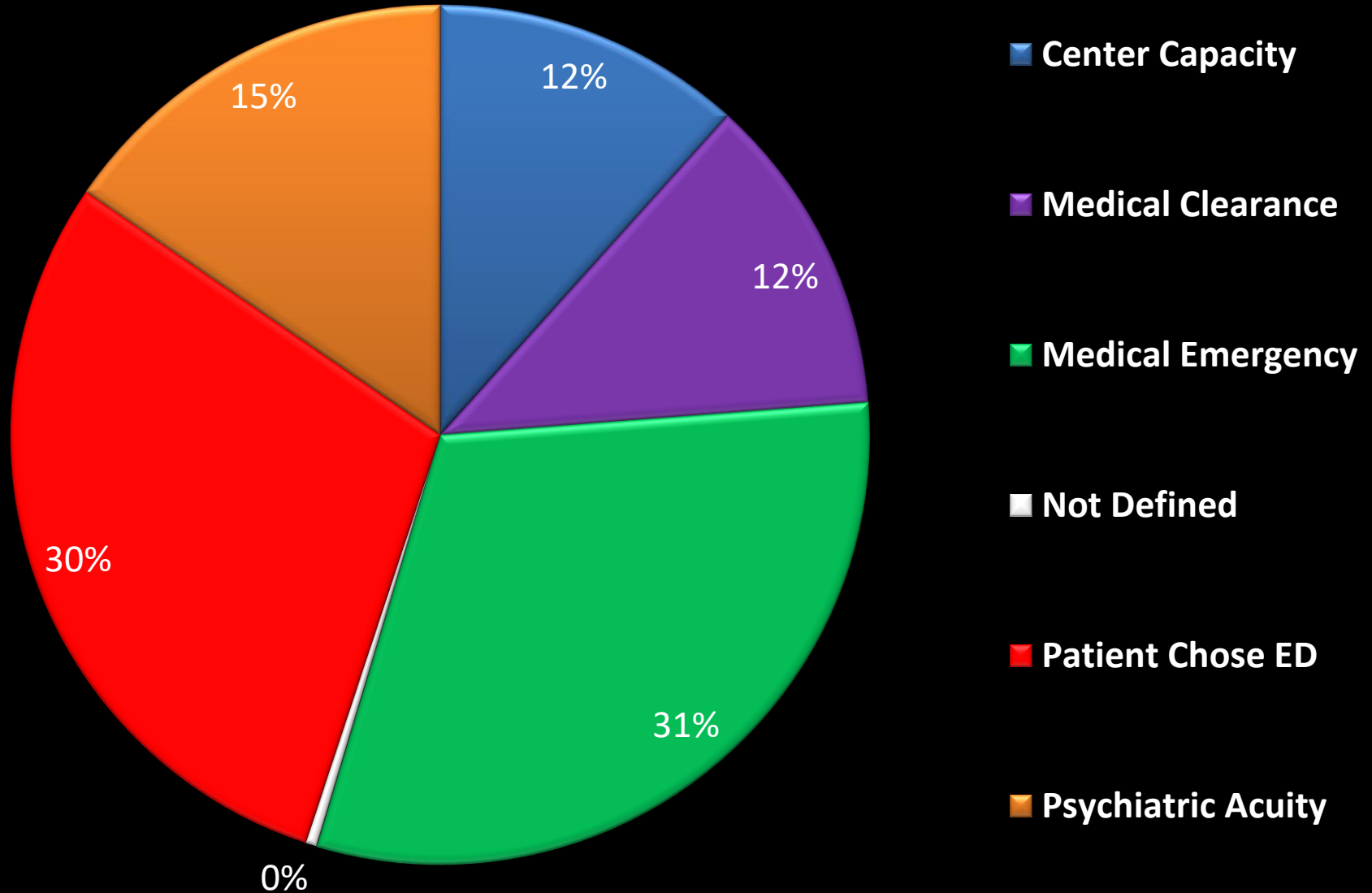
APP Alternate Destination Screening



Successful APP Alternate Destination %



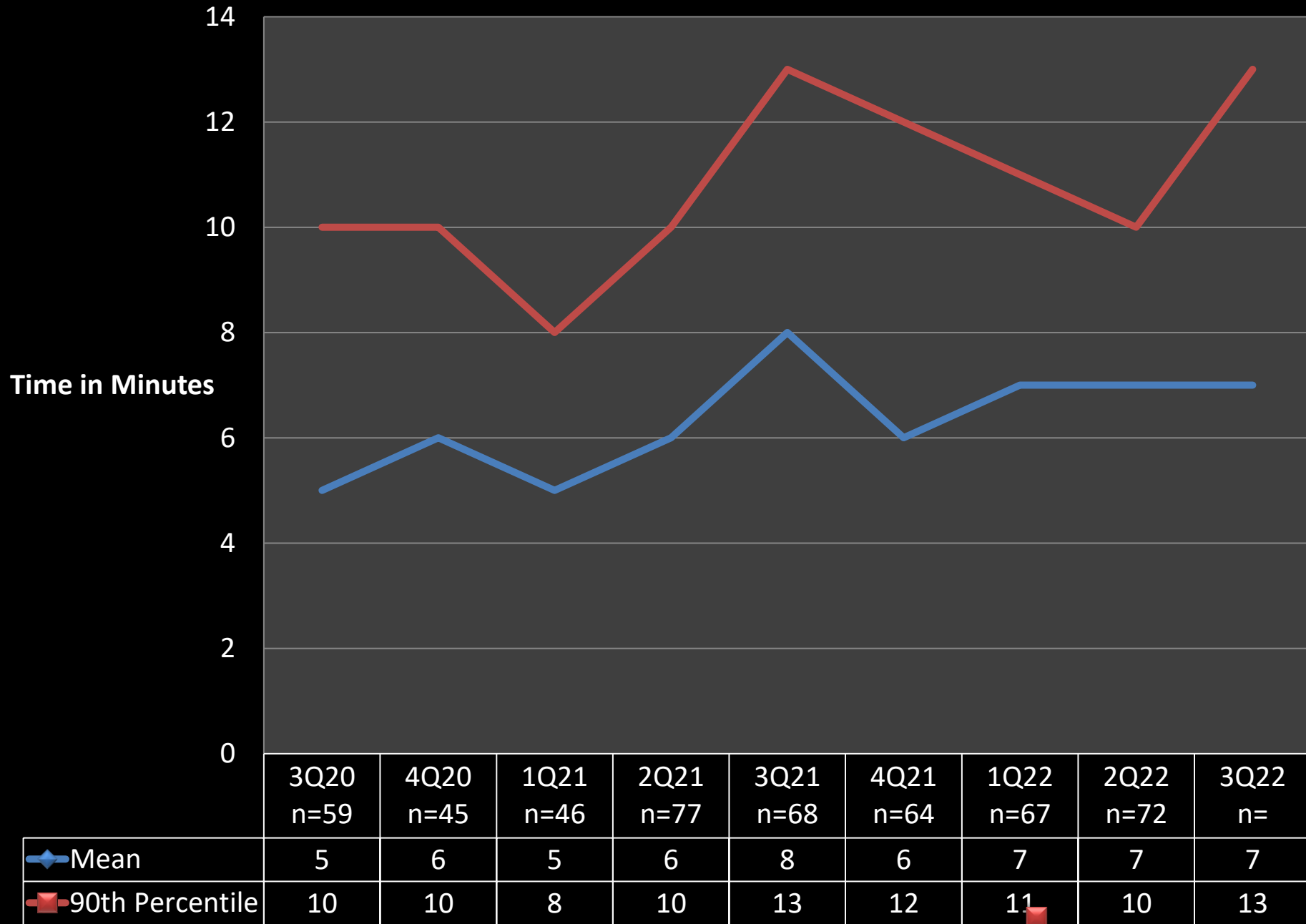
3rd Quarter 2022 Alternate Destination Reason for ED Transport



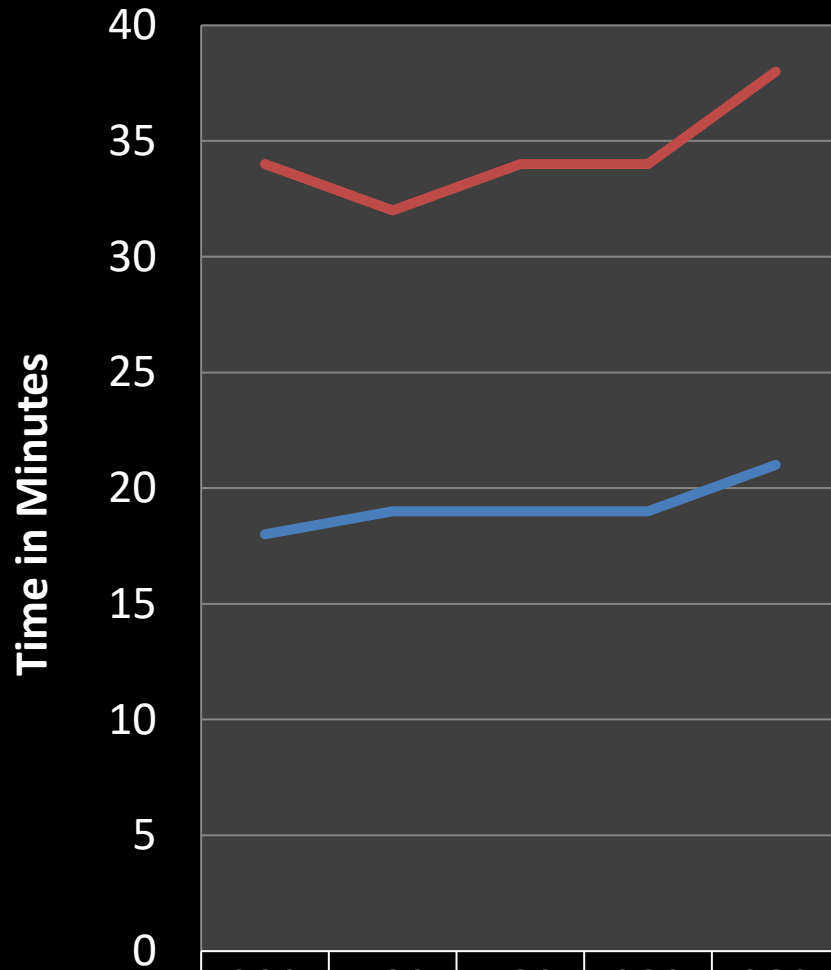
Misc. Clinical Reports

Wake EMS System

Penetrating Trauma Scene Times

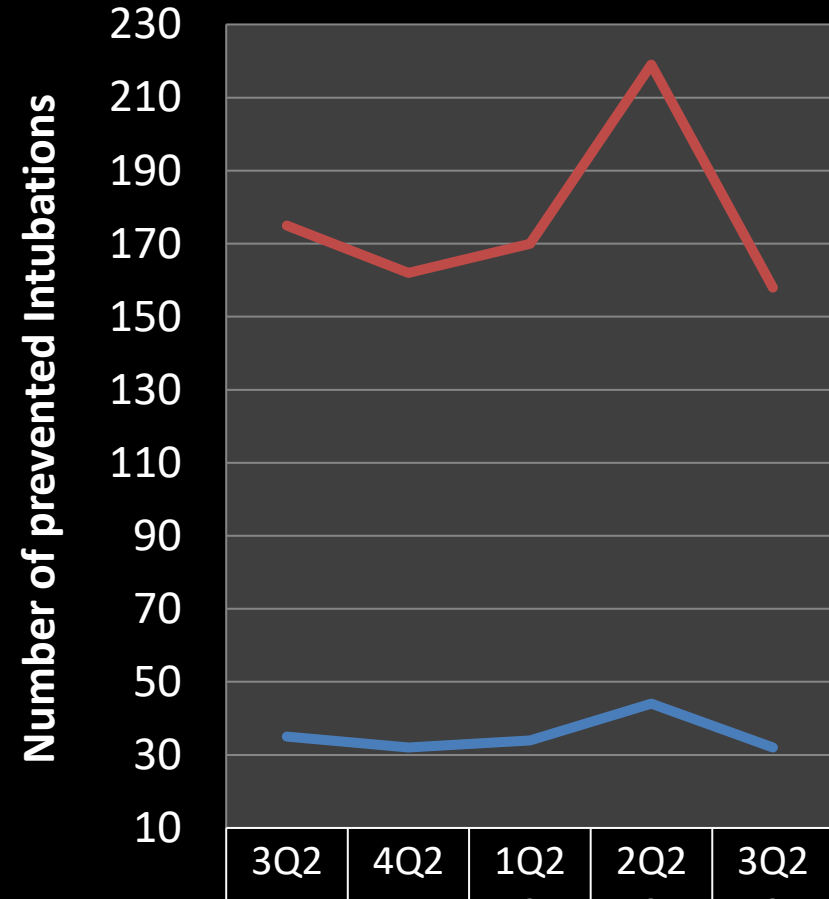


Wake EMS System CPAP Application Time



◆ Mean	18	19	19	19	21
■ 90th Percentile	34	32	34	34	38

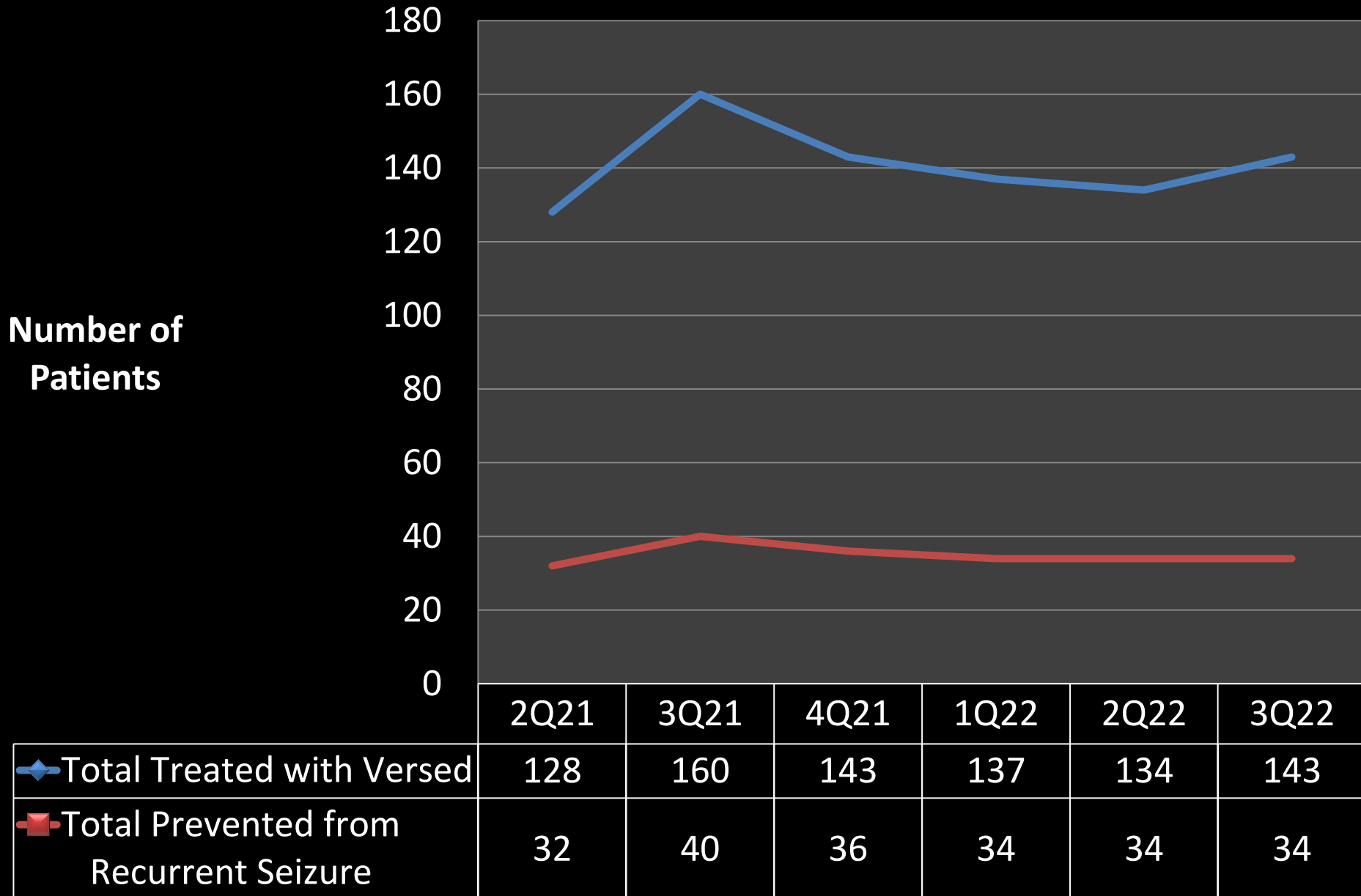
Wake EMS System Intubation Prevented with CPAP



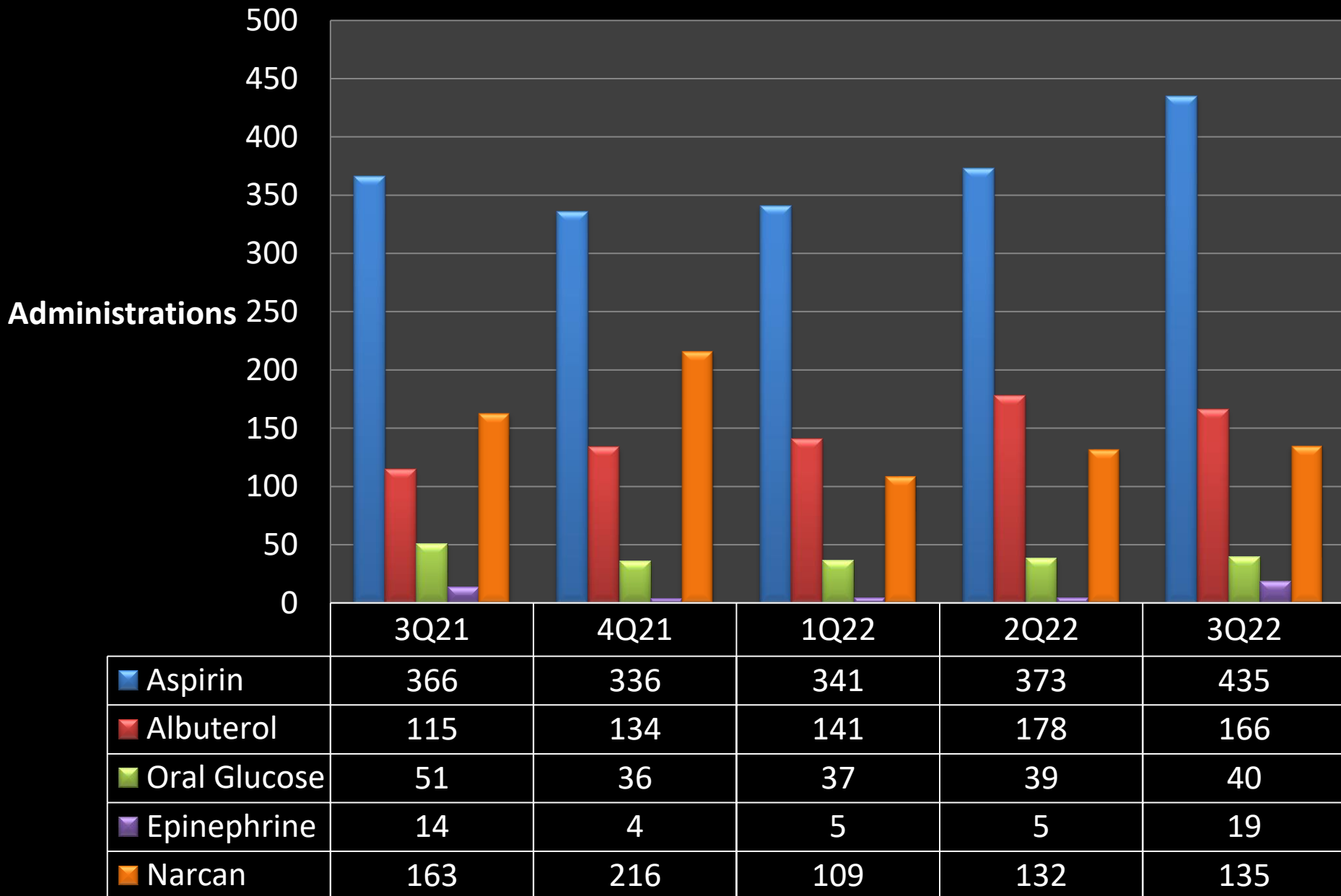
◆ Intubation Prevented	35	32	34	44	32
■ Treated with CPAP	175	162	170	219	158

Wake EMS System

Seizure Patients Treated with Versed



Medications Administered by First Responders – Derived from EMS Documentation

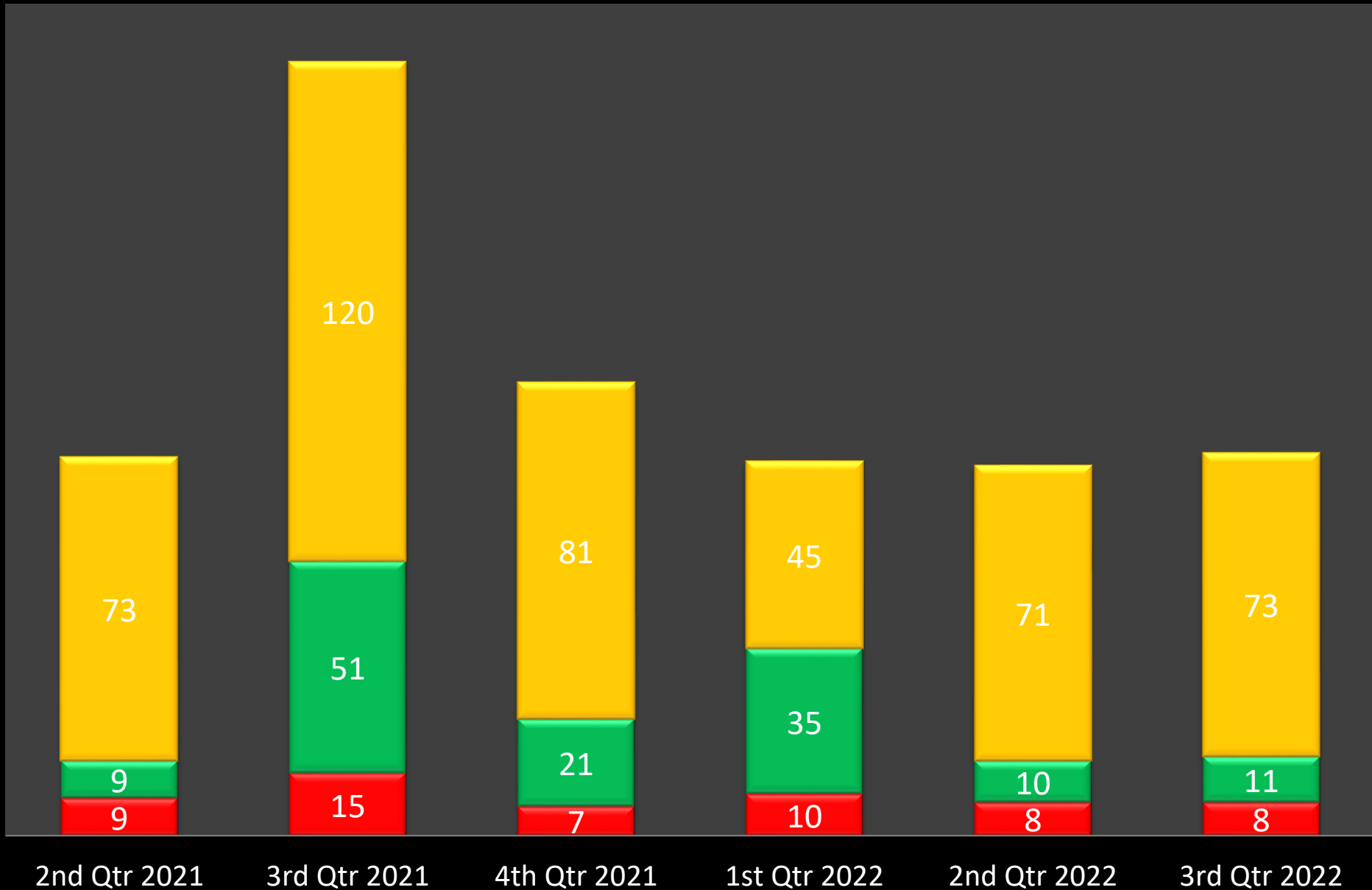


Reason for OMD Contact

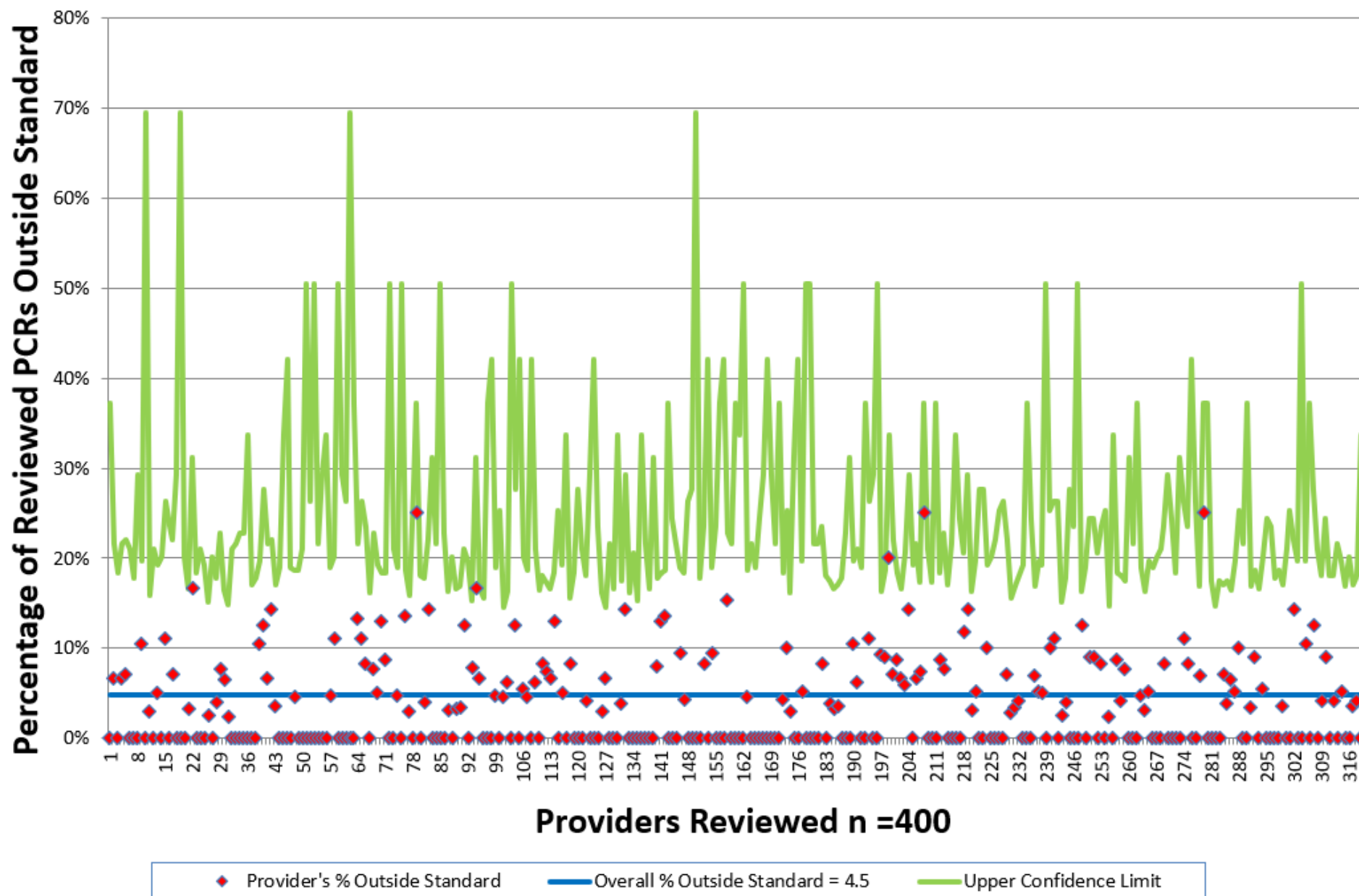
Automatic Notification

Medical Control Order

Unusual Event



Clinical Care Outside Standard (based on EBM Bundles, n = 5960 PCRs)

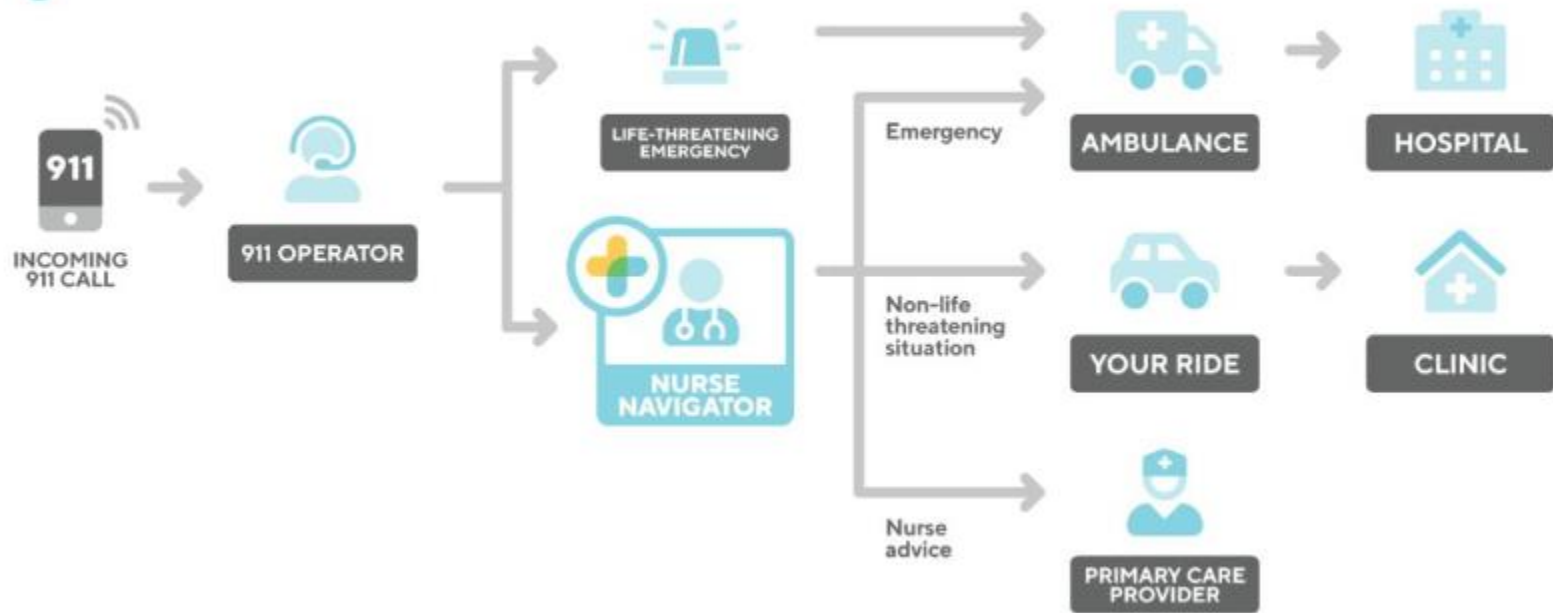


NURSE NAVIGATION PROGRAM

-  Right Care
-  Right Time
-  Right Place

Nurse Navigation

How It Works



NNL Patients Diverted from EMS/ED

■ Referred to Urgent Care

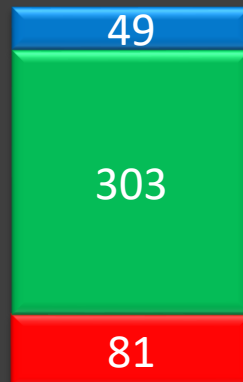
■ Nurse Advice Self Care

■ Referred to Telehealth

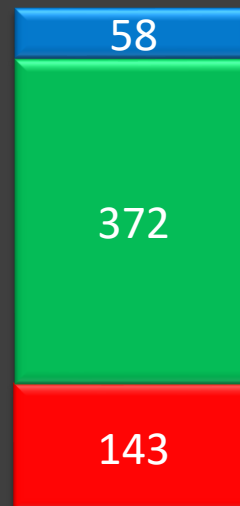
■ Total Diversions



1Q22 n=115



2Q22 n=433



3Q22 n=573



Total

NNL year to date

Client Name	Calls Triaged	Returned to 911	REF-TELE-RR	SELF CARE
<input type="checkbox"/> Wake County NC 911	4,538	2,762	447	903
911 NC, Wake County - Medicare	1,326	963	127	209
911 NC, Wake County - Other	1,102	477	43	271
911 NC, Wake County - Medicaid	978	616	147	170
911 NC, Wake County - Commercial	800	499	98	178
911 NC, Wake County - Uninsured	332	207	32	75
Total	4,538	2,762	447	903

NNL year to date

Client Name	Calls Triaged	Returned to 911	REF-TELE-RR	SELF CARE
<input checked="" type="checkbox"/> Wake County NC 911	4,538	2,762	447	903
911 NC, Wake County - Medicare	1,326	963	127	209
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911 NC, Wake County - Uninsured	332	207	32	75
Total	4,538	2,762	447	903

1,350



1,350

Nurse Navigation Patient Survey Summary

Average



Client Avg. Score Breakout

Client Name	Average of Answer	Call Back Attempts	Call Backs Completed
Wake County NC 911	4.5	3,038	1,659
Total	4.5	3,038	1,659

Call Type

Average of Answer

- ☐ Follow-Up 911 NC, Wake County REF
- ☐ Follow-Up 911 NC, Wake County RSC
- ☐ Follow-Up 911 NC, Wake County TELE
- ☐ Follow-Up: REFDH (NC)

4.4

4.5

4.7

4.7

Total

4.5

Questions?

