

Peer Review Clinical Data

2nd QUARTER 2025

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Chief Clinical Quality Officer

Division of Medical Affairs

May 15th, 2025

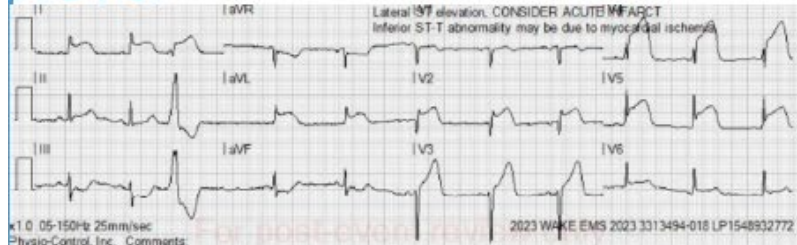


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STEMI Outcome Report

Pre-PCI

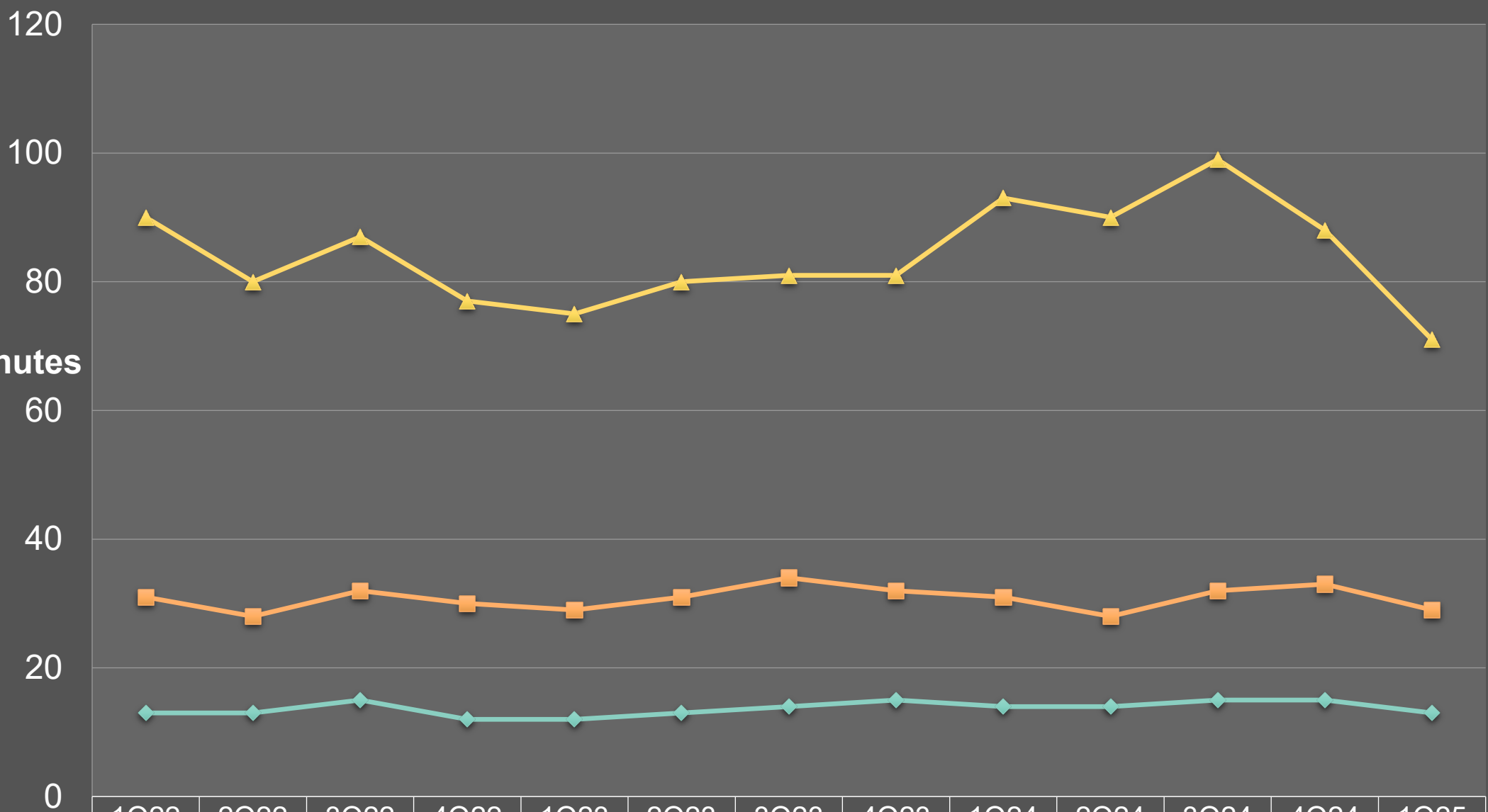


Post-PCI



CP	0	0	27	55	LAD	HOME
Chief Complaint	Time in ED	Cath Lab Ready	Door to Device	First Medical Contact to Device	VESSEL	DISPO

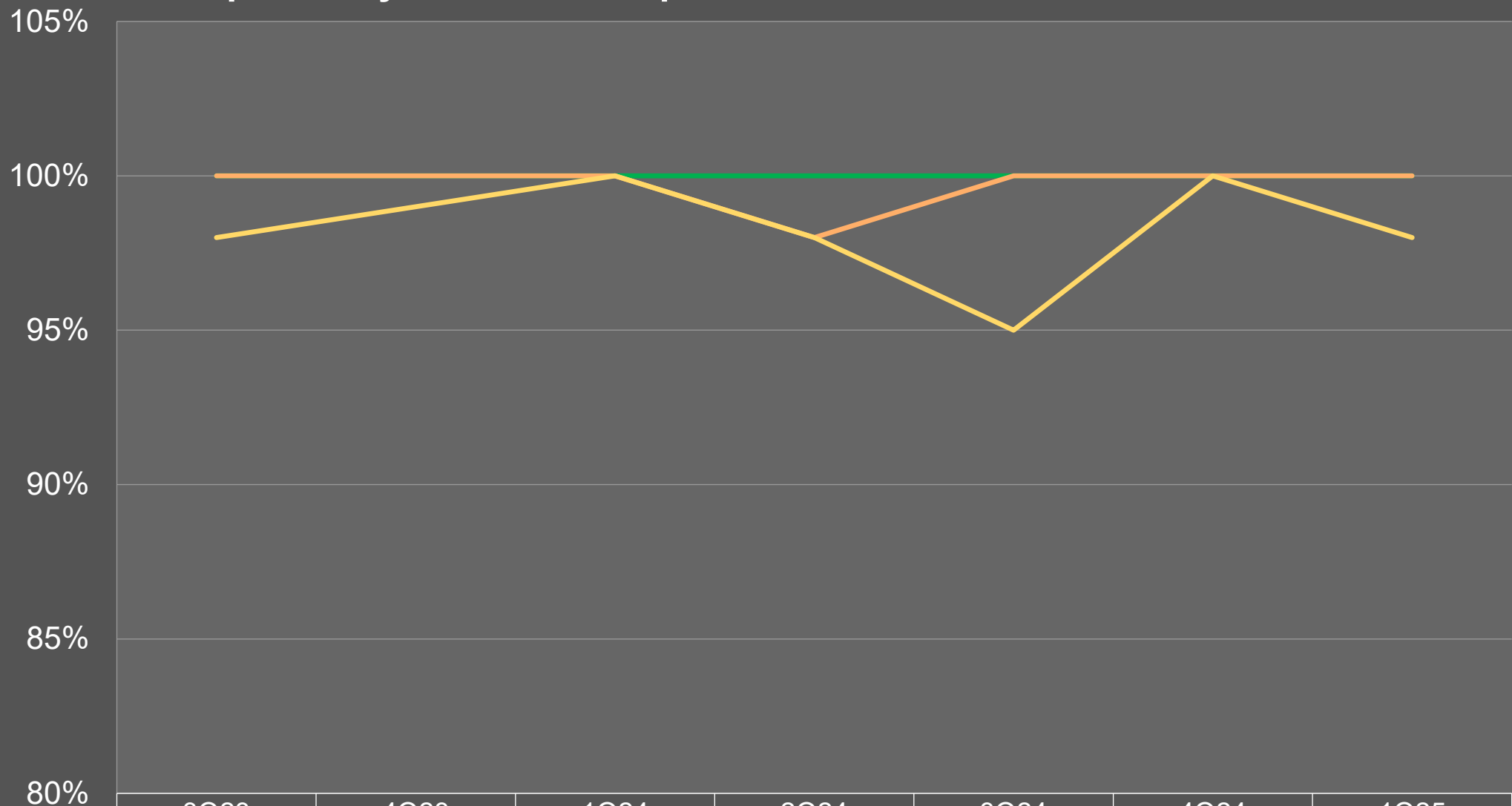
Mean Time for Patients with Confirmed STEMI; Combined for All Hospitals



	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	1Q24	2Q24	3Q24	4Q24	1Q25
▲ FMC to Intervention	59	52	55	47	46	49	47	49	62	62	67	55	42
■ FMC to Hospital Arrival	18	15	17	18	17	18	20	17	17	14	17	18	16
◆ FMC to Scene Departure	13	13	15	12	12	13	14	15	14	14	15	15	13

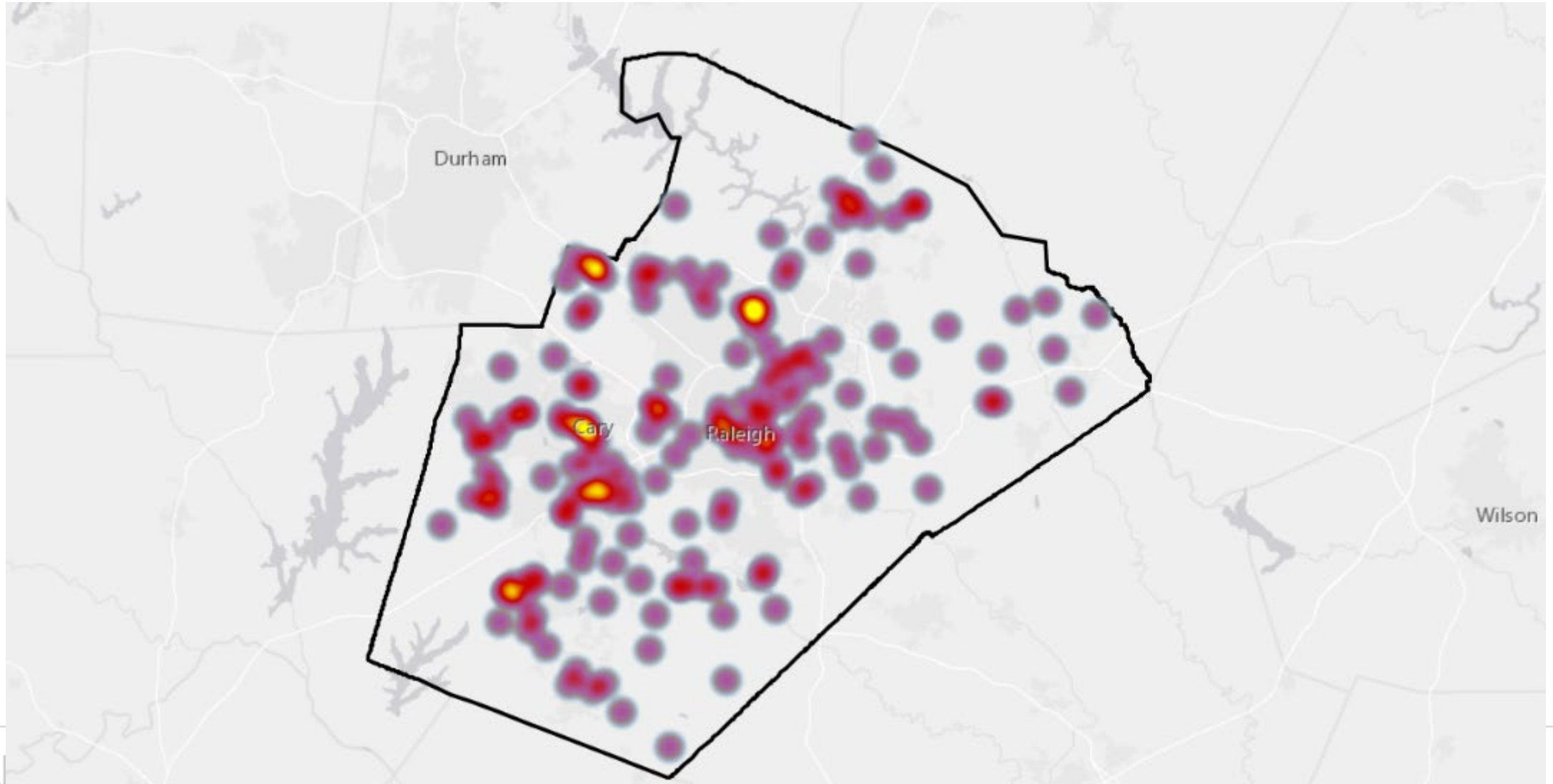
EMS STEMI Bundle
Patients Transported by EMS with Suspected or Confirmed STEMI

Percentage Performed



12 Lead	100%	100%	100%	100%	100%	100%	100%
ASA	100%	100%	100%	98%	100%	100%	100%
Scene Time<15 min	98%	99%	100%	98%	95%	100%	98%

STEMI Heat Map CY 2024



STEMI Overtriage - 2Q2024

STEMIs activated
by EMS: 66

Total STEMI Activations cancelled as reported by hospitals: n= 37

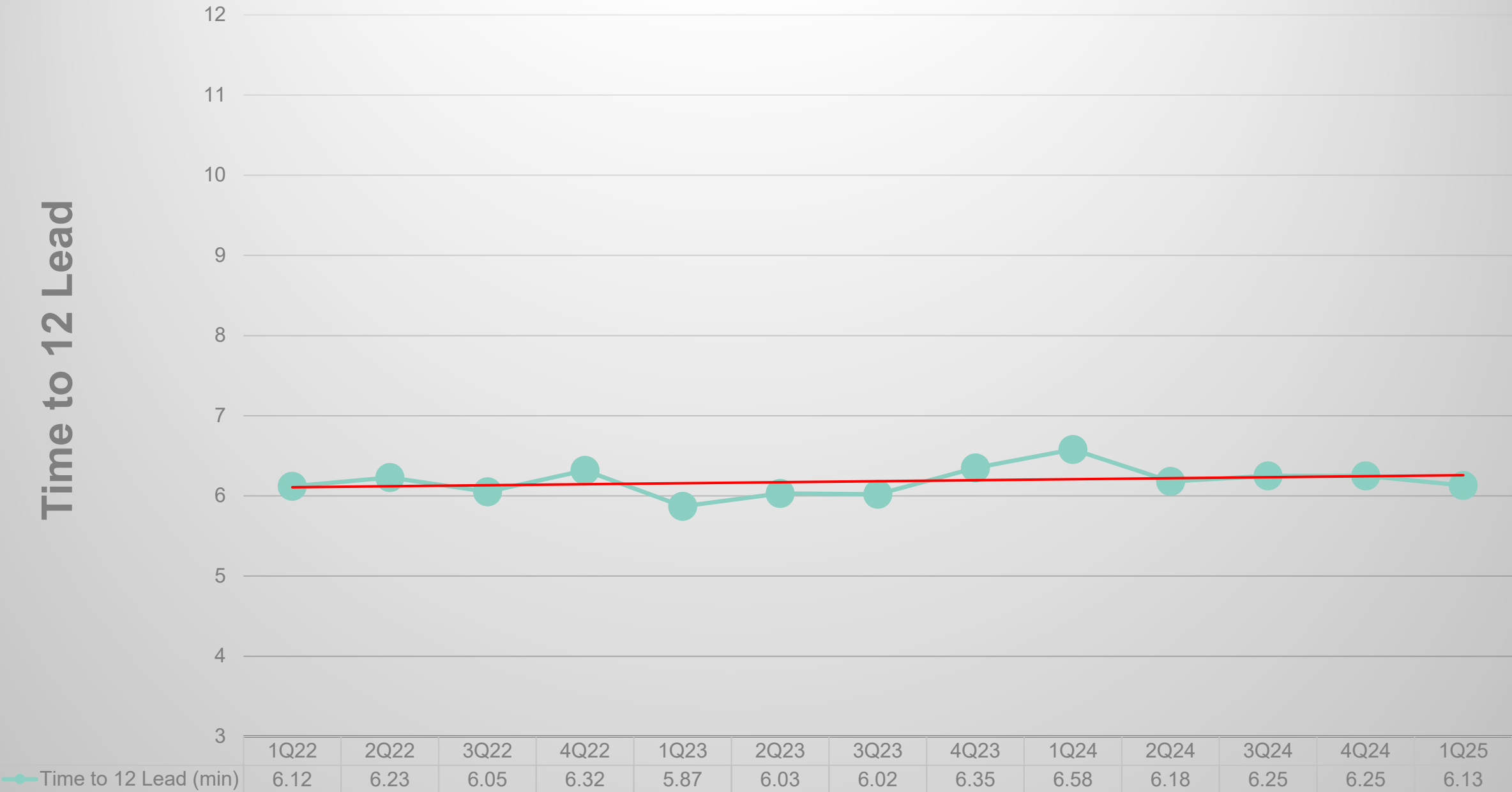
- ED Activations sent for consult only by EMS: n= 18
- EMS did not activate or send for consult: n= 5

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	4	3	1
ST Elevation Resolved	1	1	0
Expired	2	2	0
STEMI Imposter (LVH, J Point Elev., Etc)	2	0	0
Other	7	6	1
			3% Overtriage Rate

Wake EMS

Chest Pain Patient Contact to 12lead Time in Minutes



Stroke Outcome Report

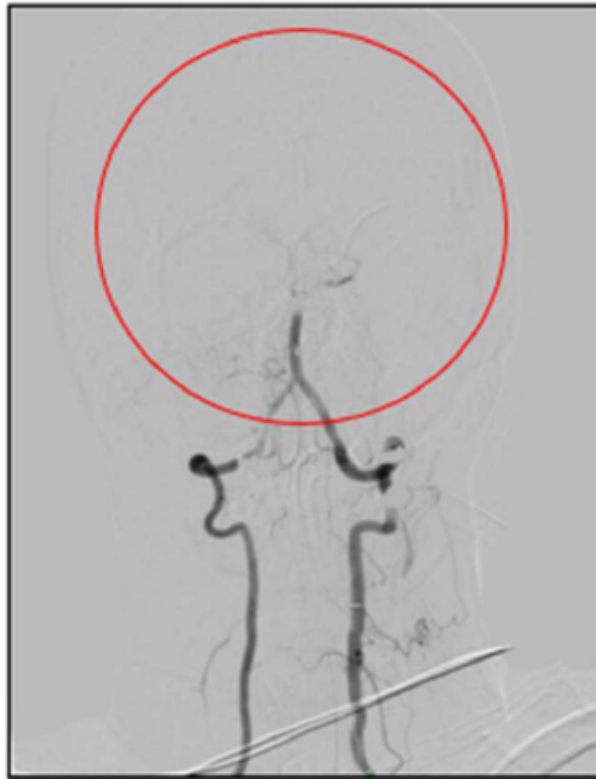
SUMMARY

- y.o female presented to ED. Per EMS, pt was found unresponsive in [REDACTED]
- EMS noted a dysconjugate gaze, right sided weakness and facial droop
- LKW 13:15 per daughter
- Initial NIHSS = 28 (LOC, gaze, weakness, language, dysarthria)
- CTA head/neck revealed a basilar tip, proximal left PCA and bilat SCA acute occlusions

BEFORE

vs.

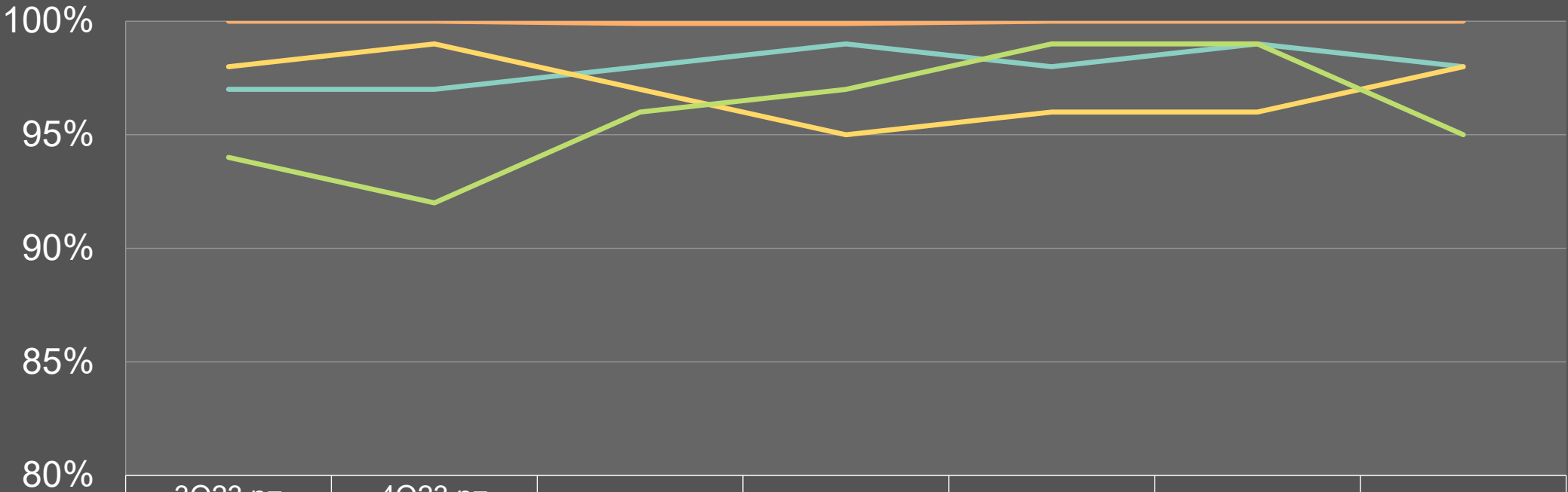
AFTER



Arrival Time	16:38
CODE STROKE *55	16:42
LKW MD Notes	13:15
GROIN	17:47
FIRST PASS	17:56
FINAL TICI	3
CODE STROKE CALCULATIONS	
LKW to Arrival	3:23
IA CALCULATIONS	
DOOR TO GROIN	Goal < 90 min 1:09
GROIN TO TICI 2B	Goal < 60min 0:10
EMS INCIDENT NUMBER	
[REDACTED]	
PROCEDURAL OUTCOMES	
▪ Occlusion of distal basilar artery. Initial TICI = 0	
▪ Successful thrombectomy with final TICI = 2C	
CLINICAL OUTCOMES	
▪ As of [REDACTED] = pt remains intubated at this time	

EMS Stroke Bundle
Patients Transported by EMS with Suspected or Confirmed Stroke

Percentage
Performed

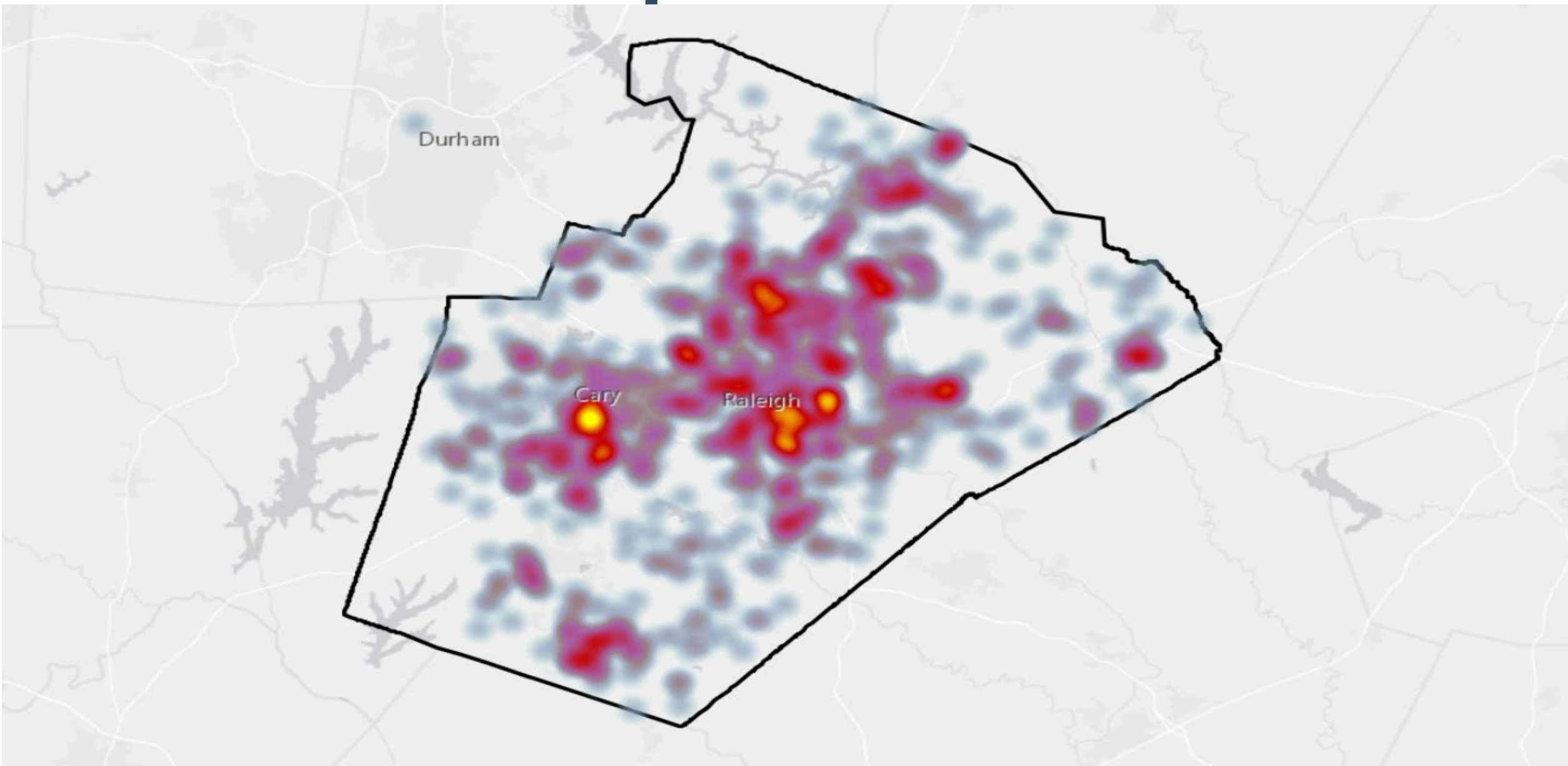


	3Q23 n=314	4Q23 n=292	1Q24 n=301	2Q24 n=331	3Q24 n=300	4Q24 n=328	1Q25 n=357
12 Lead	97%	97%	98%	99%	98%	99%	98%
BGL	100%	100%	100%	100%	100%	100%	100%
Scene Time Justified	98%	99%	97%	95%	96%	96%	98%
Blood Draw	94%	92%	96%	97%	99%	99%	95%

Interventional Stroke Report

Date	Initial Hospital	Intervention Type	Intervention Performed	TICI
02-Jan-25	WakeMed Raleigh Campus	TNK / IA	Thrombectomy	2b
03-Jan-25	WakeMed Raleigh Campus	TNK / IA	Thrombectomy	3
12-Jan-25	WakeMed Cary	IA	Thrombectomy	3
12-Jan-25	WakeMed Cary	IA	Thrombectomy	2b
12-Jan-25	UNC Rex Healthcare	IA	None	N/A
13-Jan-25	WakeMed Raleigh Campus	IA	Thrombectomy	3
14-Jan-25	WakeMed Cary	TNK / IA	Thrombectomy	3
14-Jan-25	WakeMed Raleigh Campus	IA	Thrombectomy	2b
29-Jan-25	WakeMed Raleigh Campus	IA	Thrombectomy	2b
01-Feb-25	WakeMed Cary	IA	Thrombectomy	3
04-Feb-25	UNC Rex Healthcare	IA	Thrombectomy	3
08-Feb-25	WakeMed Raleigh Campus	IA	Thrombectomy	2b
13-Feb-25	WakeMed Raleigh Campus	IA	Thrombectomy	3
18-Feb-25	WakeMed Raleigh Campus	TNK / IA	Thrombectomy	3
01-Mar-25	WakeMed Cary	IA	Thrombectomy	2b
05-Mar-25	WakeMed Raleigh Campus	IA	Thrombectomy	2b
15-Mar-25	WakeMed Cary	TNK-IA	Thrombectomy	0
19-Mar-25	WakeMed Raleigh Campus	IA	Thrombectomy	3
25-Mar-25	WakeMed Raleigh Campus	TNK-IA	Thrombectomy	3

Stroke Heat Map CY2024

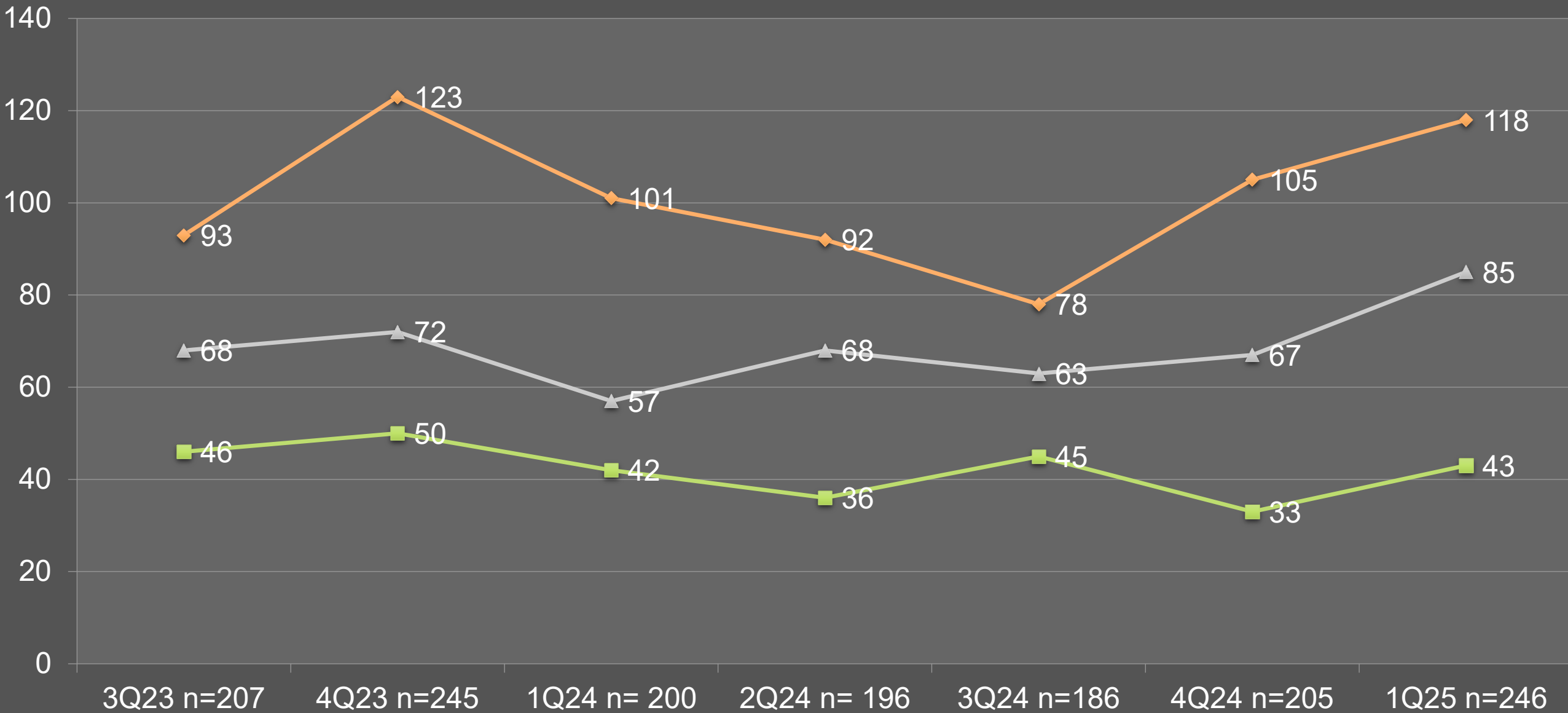


Cardiac Arrest



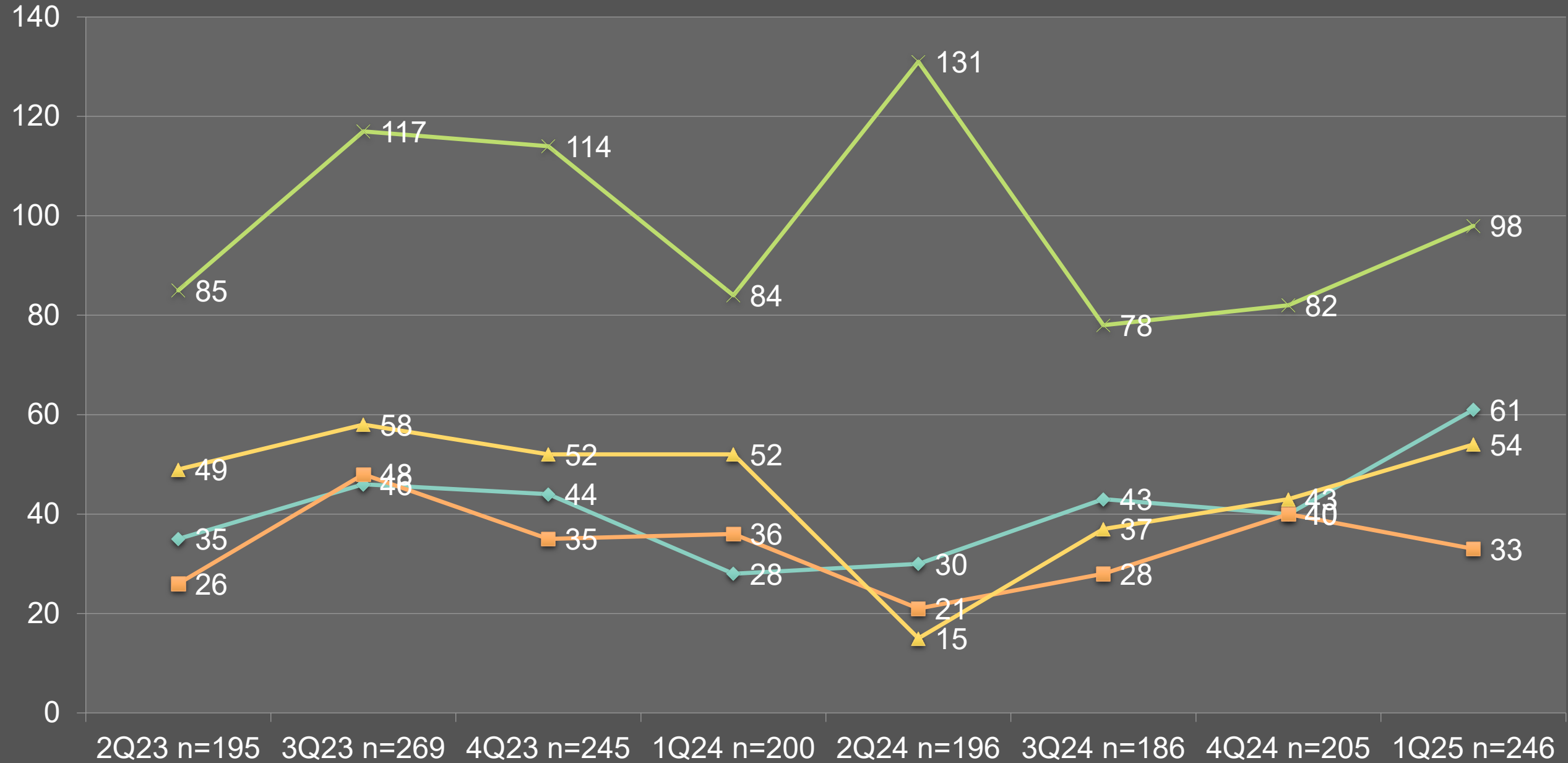
Cardiac Arrest: Disposition for Attempted Resuscitations

—◆— 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



Utstein Survival Report

Wake County EMS System

Date of Arrest: 01/01/24-12/31/24

Non-Traumatic Etiology Survival Rates

Overall:	15.0% (707)
Bystander Wit'd:	25.7%(276)
Unwitnessed:	4.6% (302)
Utstein ¹ :	40.7% (123)
Utstein Bystander ² :	42.3% (78)

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:	43.5% (510)
Public AED Use:	20.2% (114)

2022 !!

Bystander Intervention Rates ³

CPR:	32.3% (616)
Public AED Use:	18.9% (122)

2023 !!

Bystander Intervention Rates ³

CPR:	42.4% (571)
Public AED Use:	14.4% (111)

Cardiac Arrest 2024 Total Survivors

108

ALL TIME

CARES Dispatcher Assisted-CPR Report

End of the Event: Dead in Field, Pronounced Dead in ED, Ongoing Resuscitation in ED | Resuscitation Attempted by 911 Responder: Yes | Presumed Cardiac Etiology, Respiratory/Asphyxia, Drowning/Submersion, Electrocution, Other, Drug Overdose, Exsanguination/Hemorrhage | Date of Arrest: From 07/01/2024 Through 09/30/2024

1Q25

Characteristic	Wake County EMS System
Bystander CPR (Module-based)	N=2095
Bystander CPR with dispatcher assistance	1118 (53.4%)
Bystander CPR without dispatcher assistance	202 (9.6%)

Dispatcher CPR Instructions

Dispatcher recognized need for CPR	1629 (88.8%)
CPR instructions started	1519 (82.2%)
CPR instructions refused	53 (3.8%)
Compressions started	1135 (64.3%)

Time Intervals

Call receipt to CPR recognition	1644
Mean	01:17
Median	00:50
Call receipt to CPR instruction	1554
Mean	01:45
Median	01:23
Call receipt to first compression	1185
Mean	02:56
Median	02:39

Characteristic	Wake County EMS System
Bystander CPR (Module-based)	N=126
Bystander CPR with dispatcher assistance	62 (49.2%)
Bystander CPR without dispatcher assistance	14 (11.1%)

Dispatcher CPR Instructions

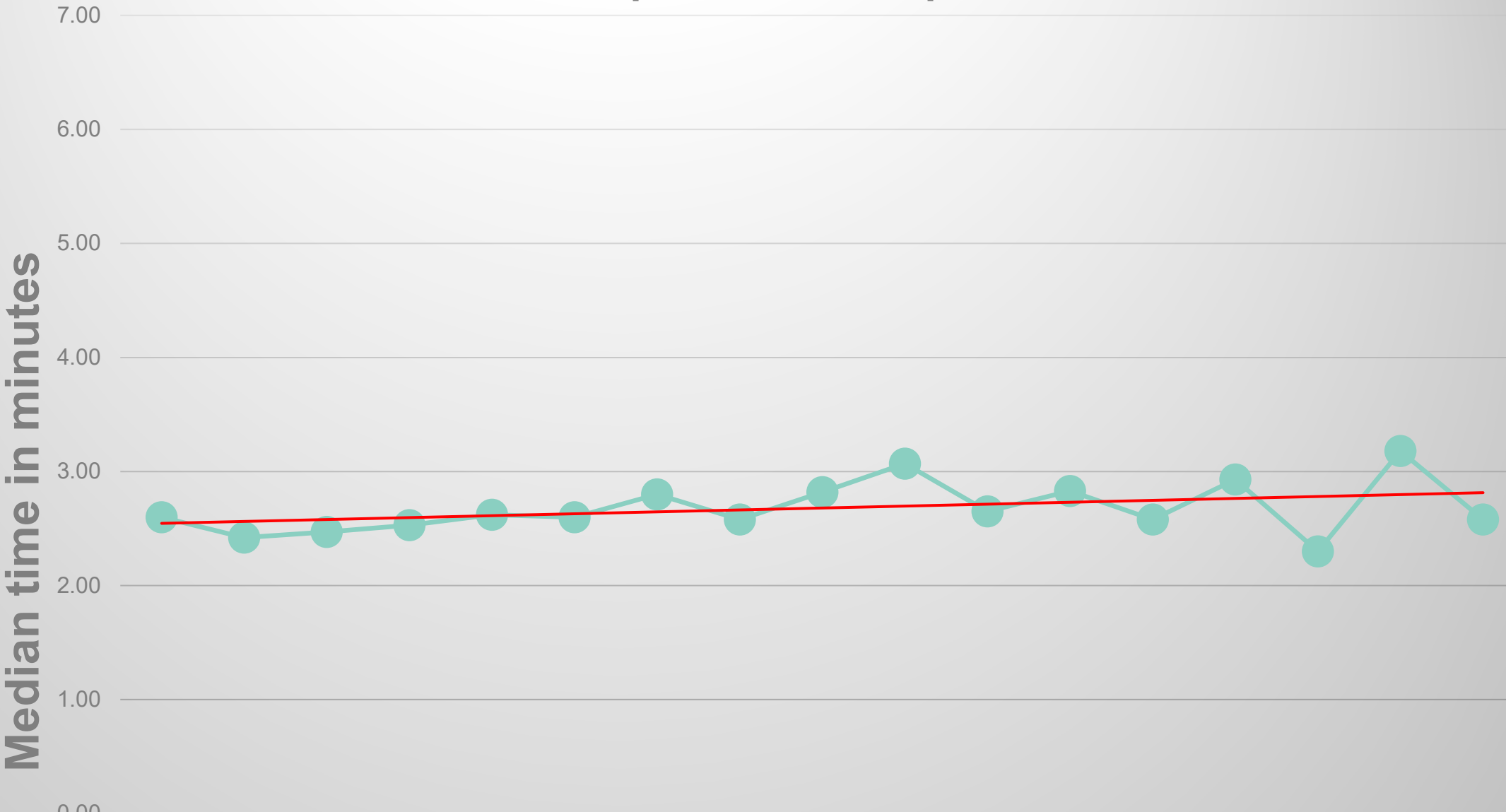
Dispatcher recognized need for CPR	101 (96.2%)
CPR instructions started	98 (97.0%)
CPR instructions refused	4 (6.2%)
Compressions started	62 (70.5%)

Time Intervals

Call receipt to CPR recognition	102
Mean	01:08
Median	00:43
Call receipt to CPR instruction	99
Mean	01:45
Median	01:28
Call receipt to first compression	62
Mean	02:58
Median	02:35

DA-CPR

911 Call Receipt to First Compression



Time from 911 call to first compression

1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	1Q24	2Q24	3Q24	4Q24	1Q25
2.60	2.42	2.47	2.53	2.62	2.60	2.80	2.58	2.82	3.07	2.65	2.83	2.58	2.93	2.3	3.18	2.58



Miscellaneous Clinical Reports

Transports By Facility

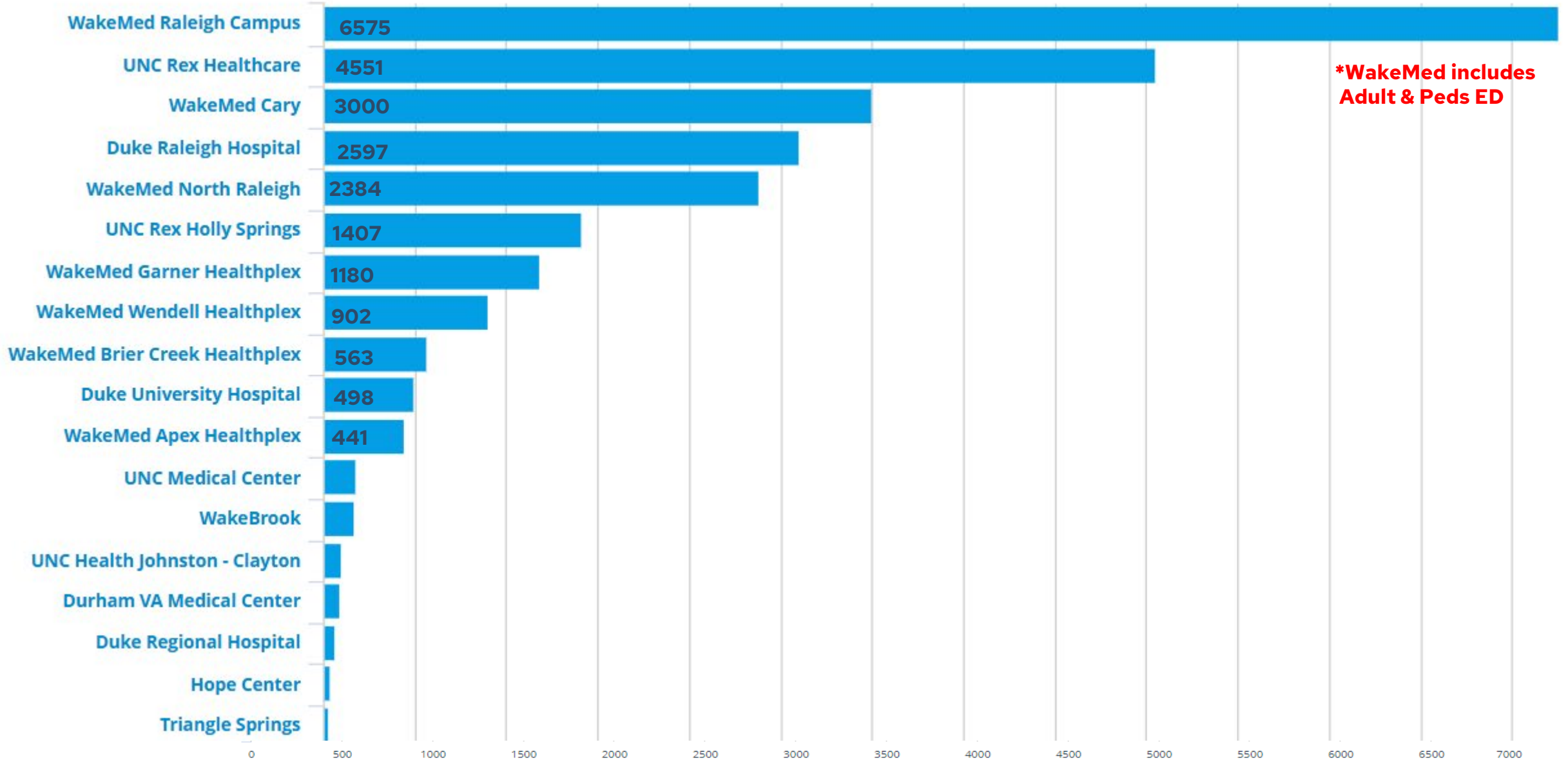
24,974

RECORDS

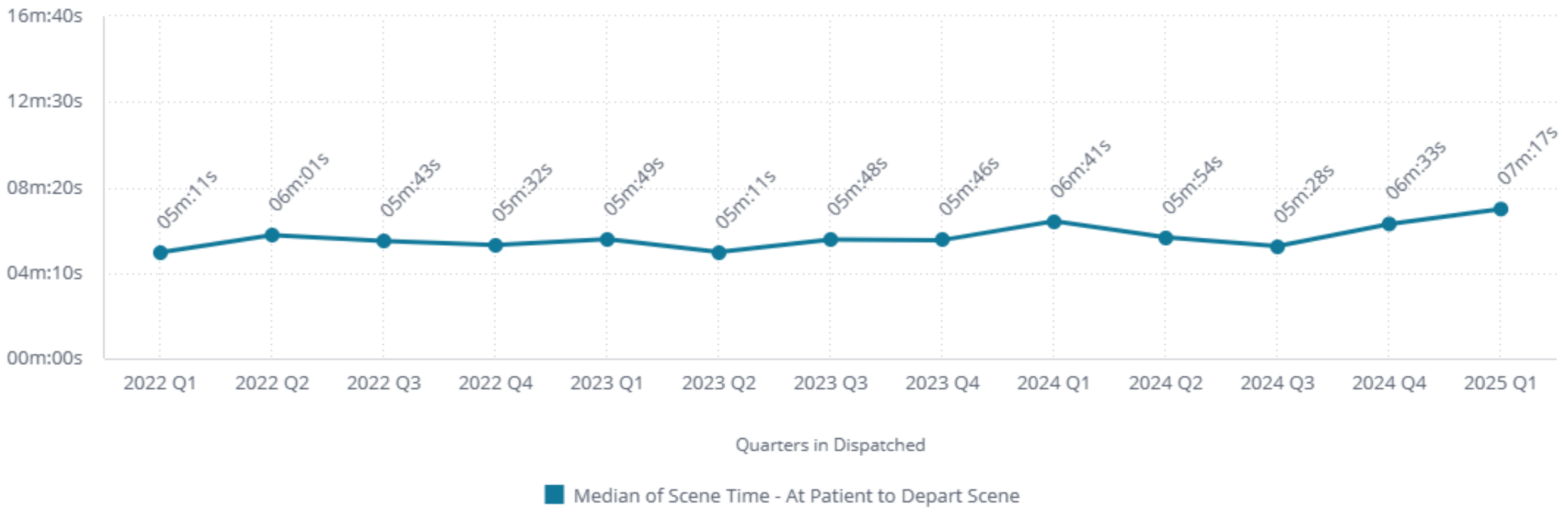
In Selected Time Slice

+426 transports
From 4Q24

Jan 1, 2025 - Mar 31, 2025

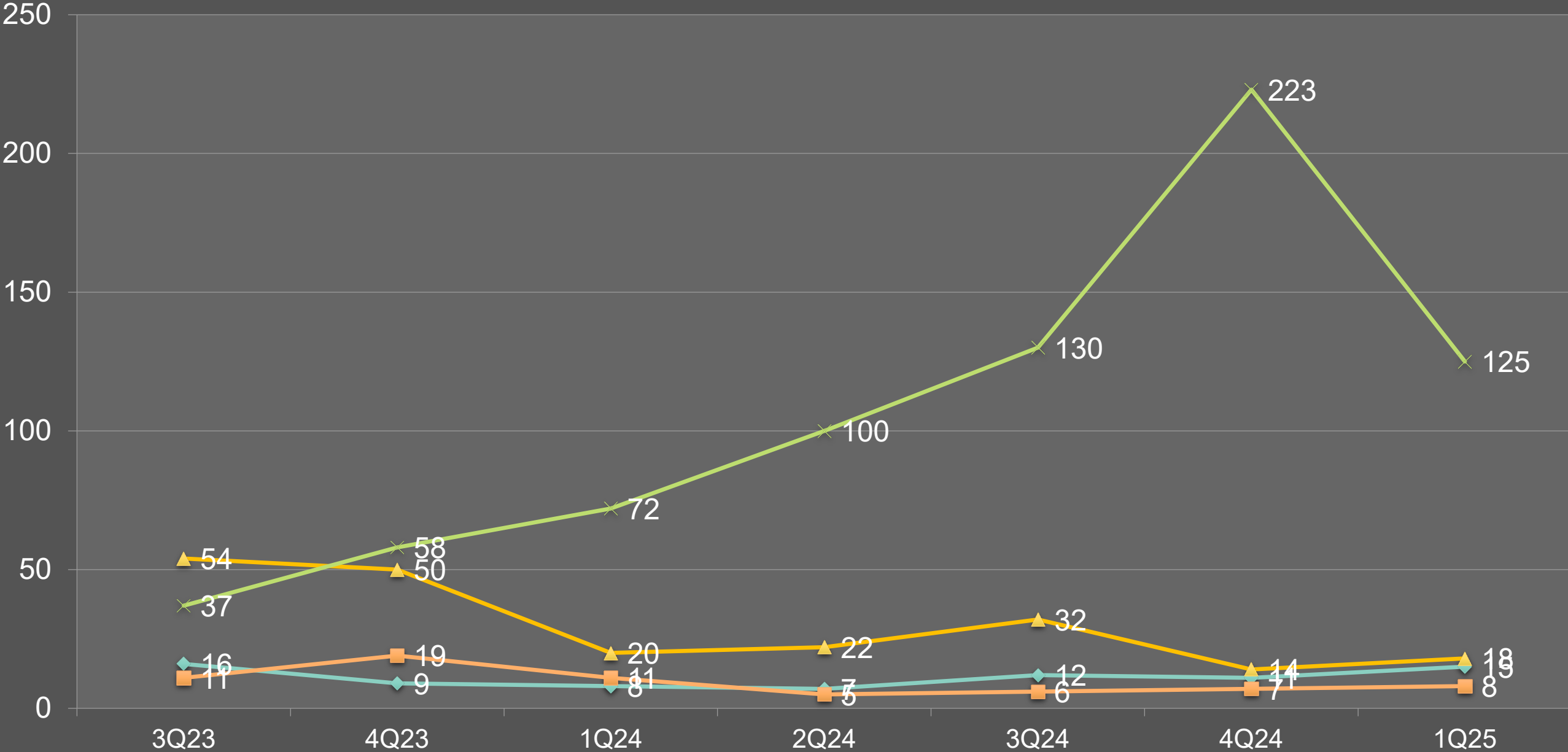


Penetrating Trauma Scene Times



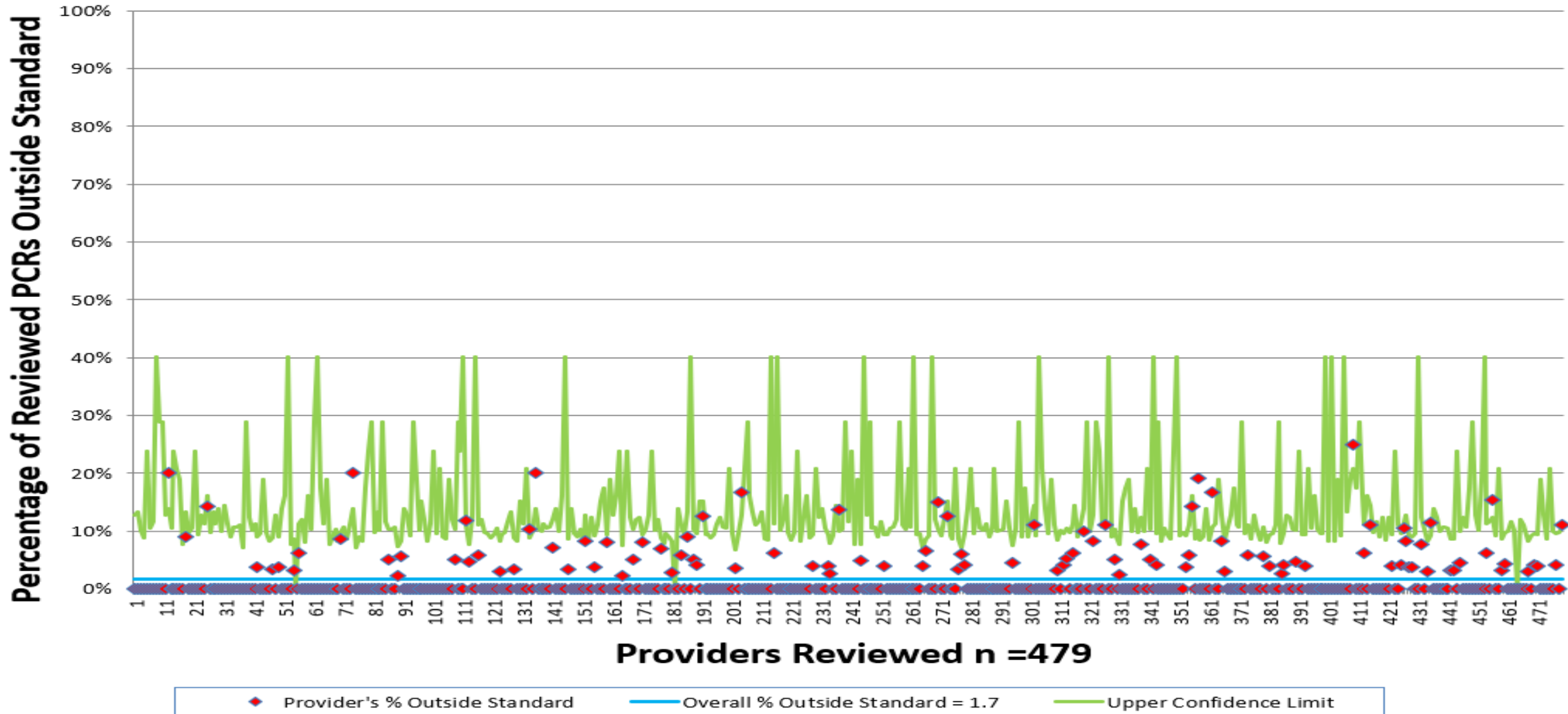
Reason for OLMC Contact

Automatic Notification Medical Control Order Unusual Event General Consult



QA ePCR Chart Review

Clinical Care Outside Standard
(based on EBM Bundles, n = 8318 PCRs)



Mental Health / Substance Use Alternate Destination

Michael Lyons

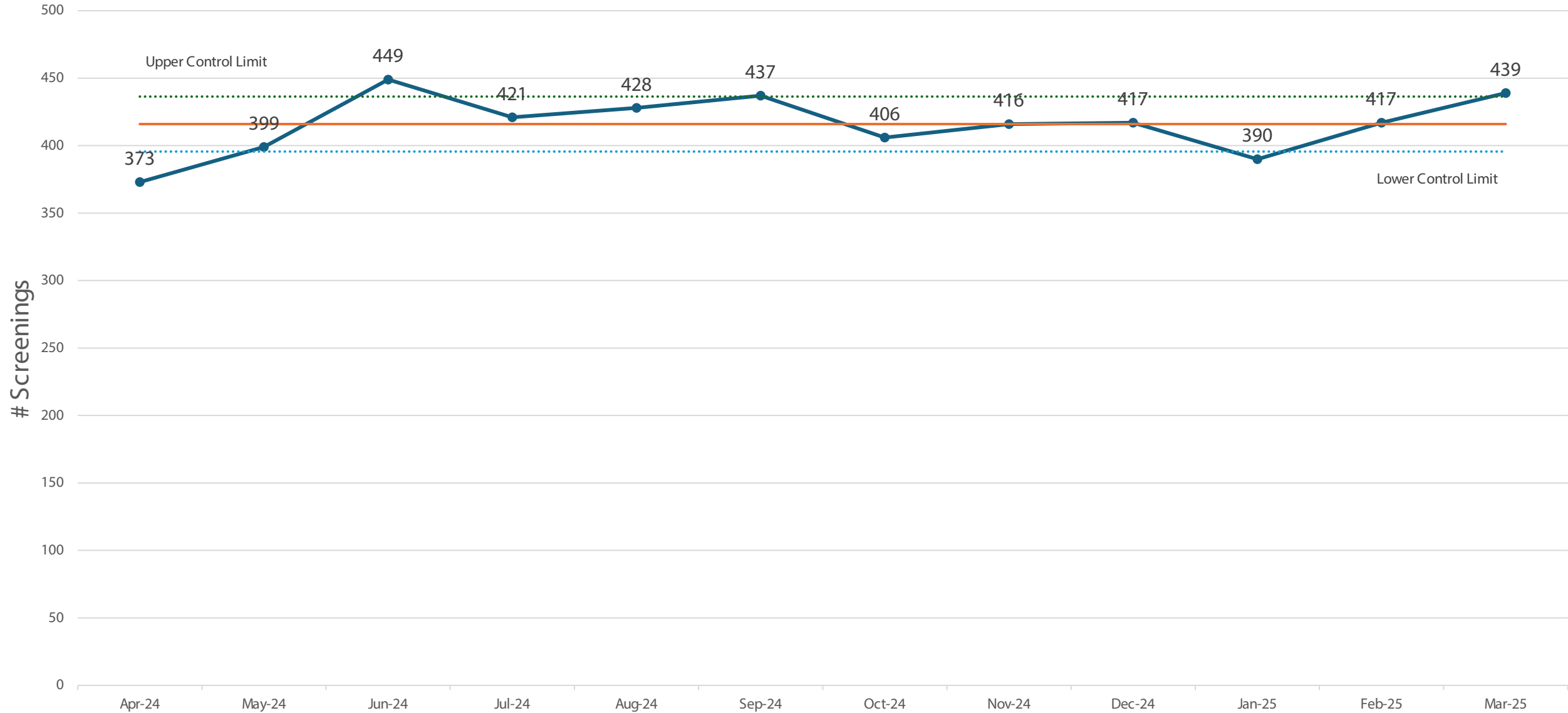
Commander – Mobile Integrated Health



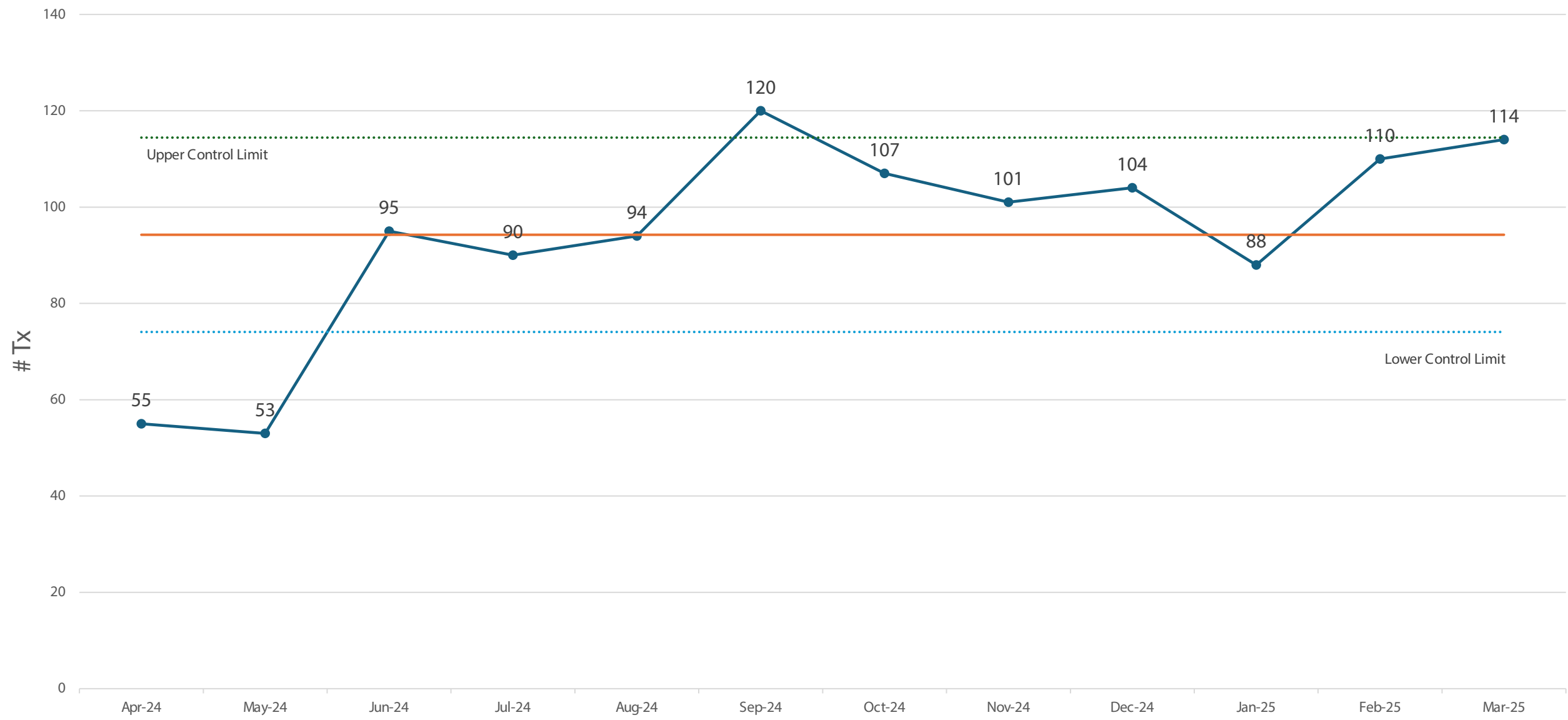
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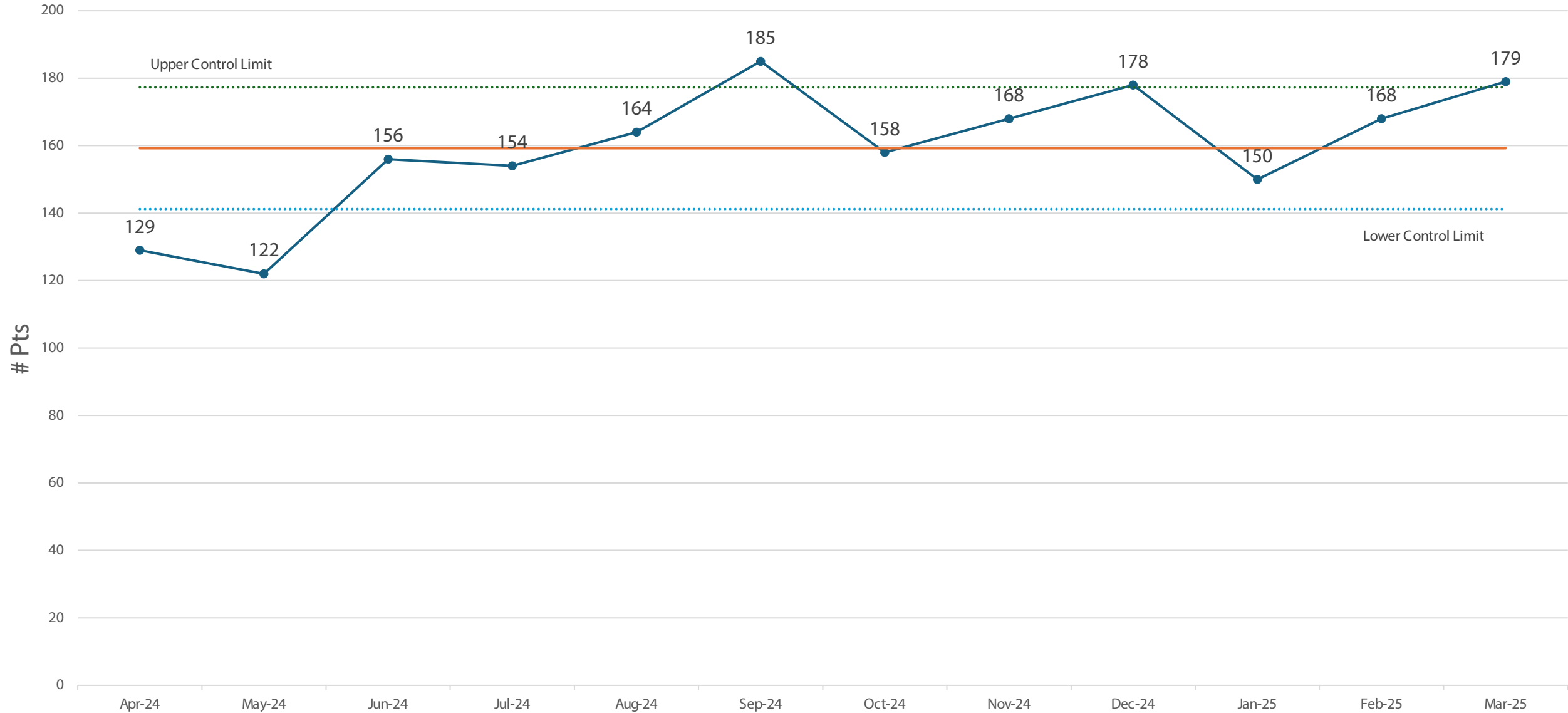
APP MH Screenings



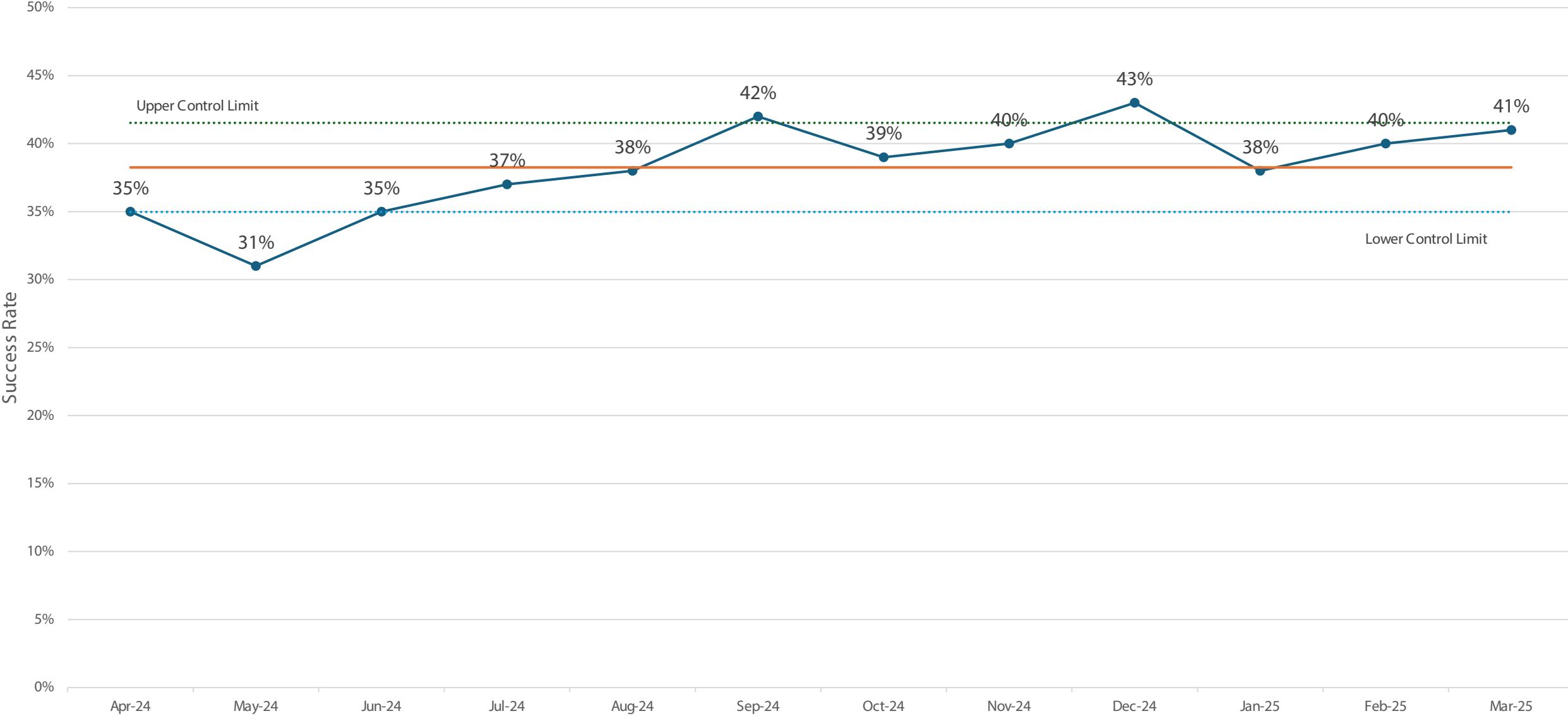
Alternate Destinations



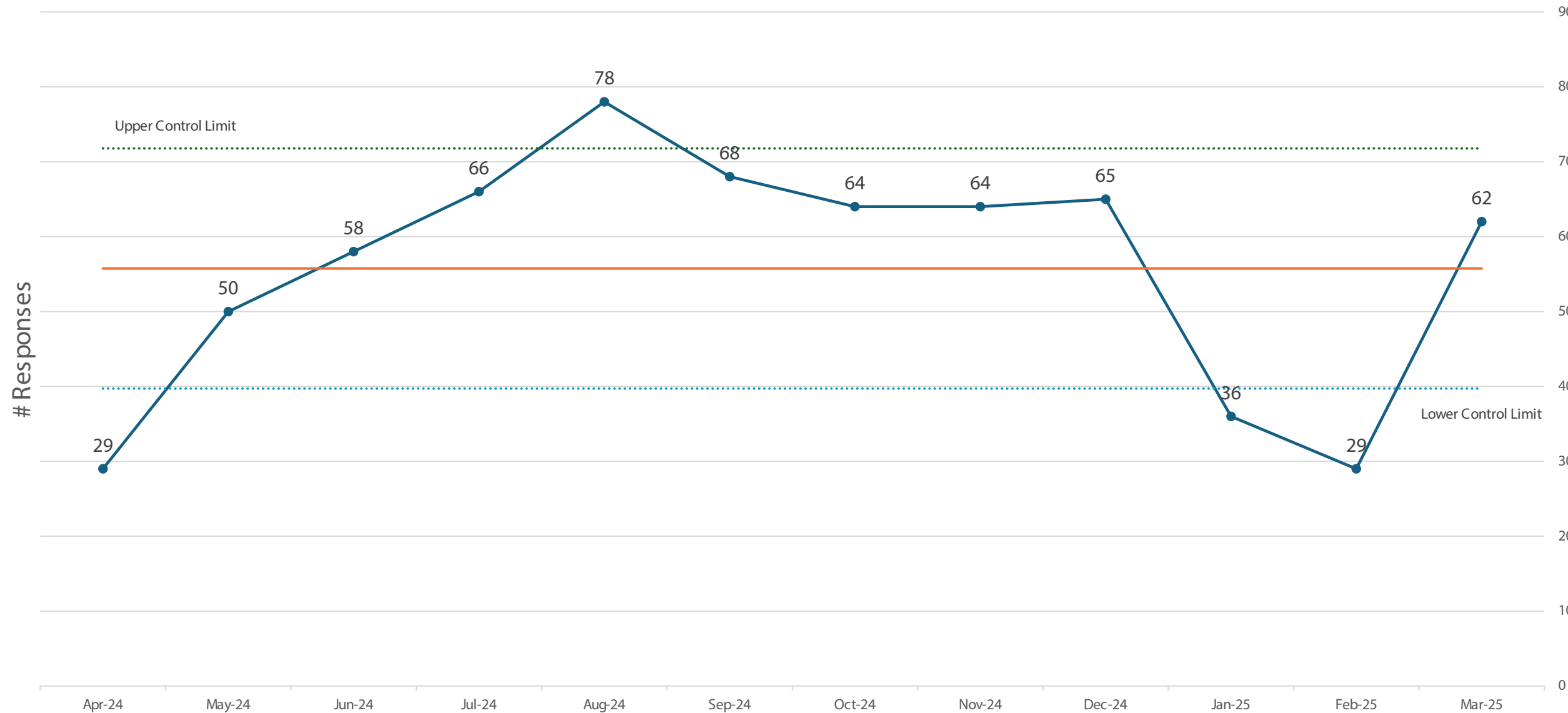
Total Non-ED Dispositions



Non-ED Disposition Rate



EMS Mobile Crisis



Buprenorphine Update

Buprenorphine screenings since 7/5/2023:

768

Total patients who received buprenorphine:

123

Total buprenorphine doses administered:

219

**Total patients who followed up with
SouthLight:**

37



➤ [Prehosp Emerg Care](#). 2025 Jan 17:1-7. doi: 10.1080/10903127.2025.2450773. Online ahead of print.

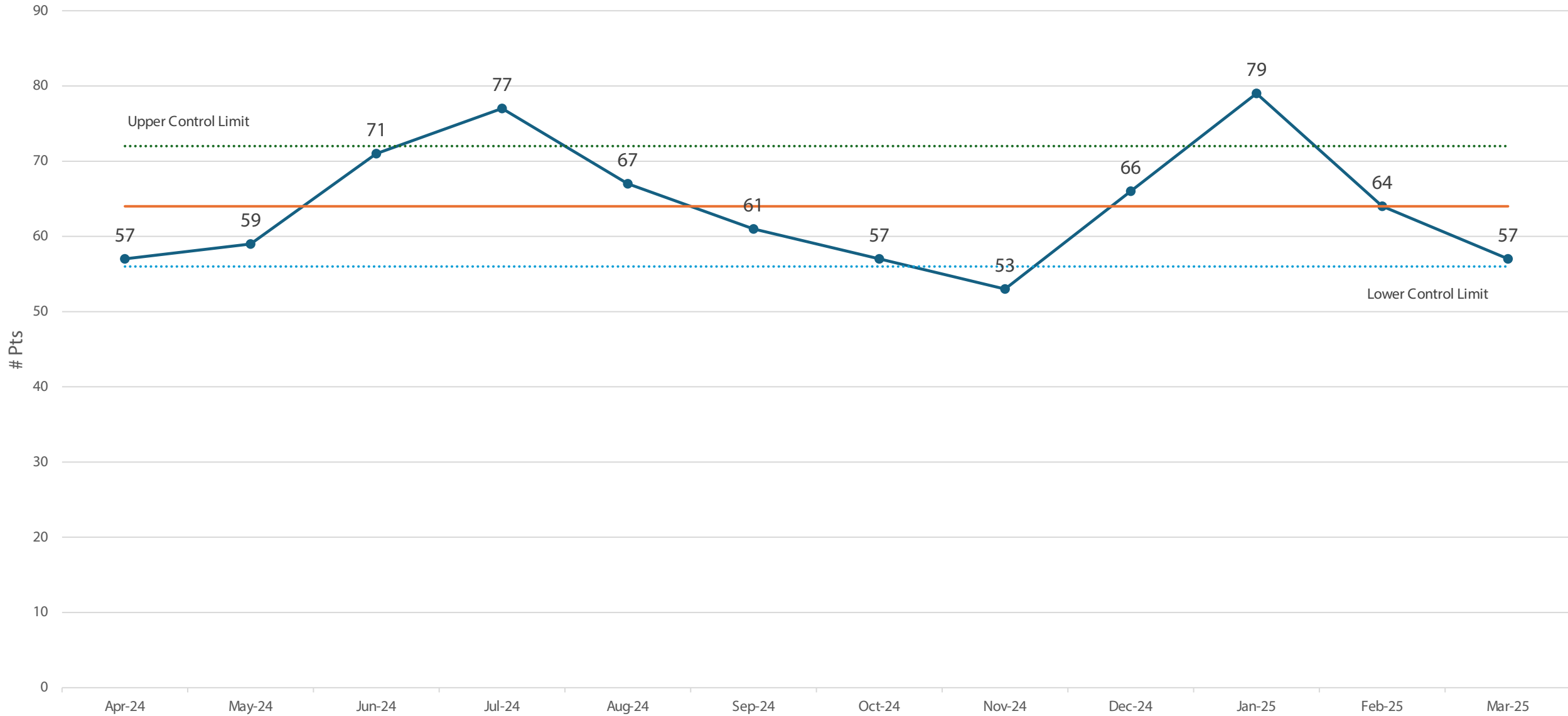
Lessons Learned from the Implementation of the Wake County, North Carolina EMS Medication for Opioid Use Disorder Program

Andrew W Godfrey¹, Vicki L Coles¹, Michael D Lyons¹, Jefferson G Williams¹,
Jonathan R Studnek¹, Kristin M Cain², Brandon Smith², Benjamin W Powell²,
Gabrielle D Newsam², José G Cabañas¹

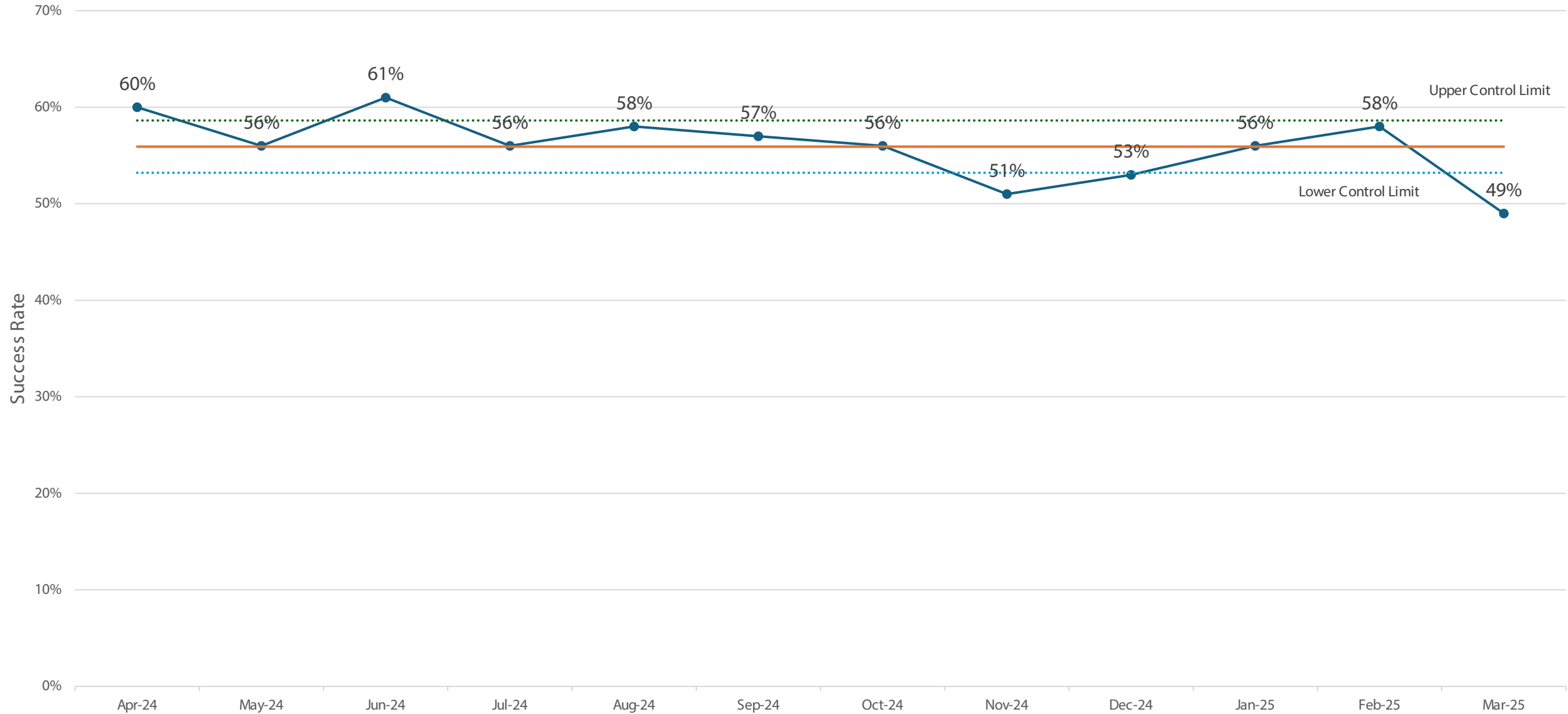
Affiliations + expand

PMID: 39786730 DOI: [10.1080/10903127.2025.2450773](#)

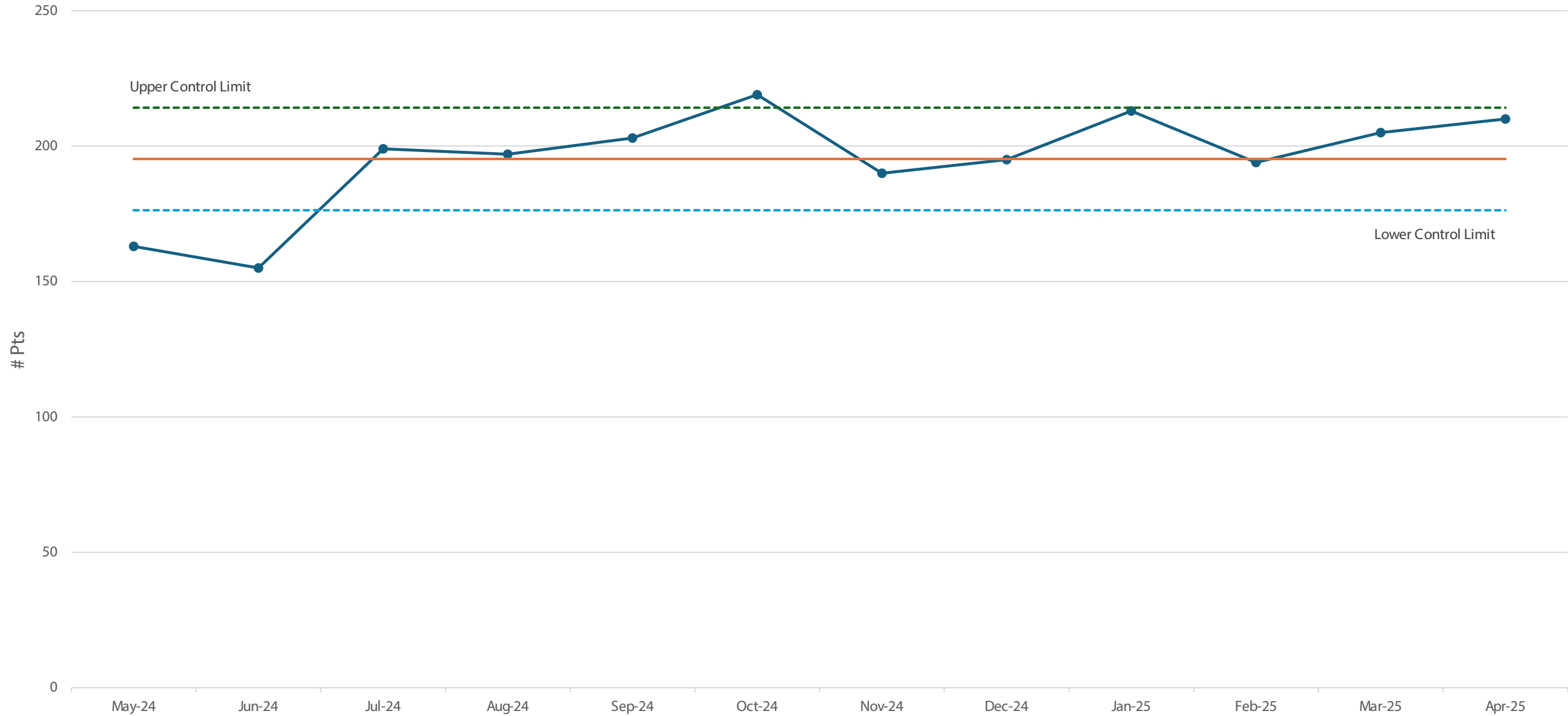
Falls in Assisted Living Facilities



Falls in ALF Success Rate



Total Non-ED Transports





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