Sacramento County
Department of Health and Human Services - Emergency Medical Services Agency (SCEMSA)
Joint Medical Advisory (MAC)/Operational Advisory (OAC) Committees
9616 Micron Ave. Suite 960
Sacramento, CA. 95827

December 9, 2021

Facilitator: Hernando Garzon, M.D. SCEMSA Medical Director
                     David Magnino, EMS Administrator
Scribe: Kristin Bianco, EMS Specialist II

Meeting Attendees: Attendees not captured from Zoom meeting.

March 10, 2022 Meeting Agenda can be located at:
https://dhs.saccounty.gov/PRI/EMS/Documents/MAC%20OAC/2022%20Meetings/March%202022/AG-March%2010%2c%202022%20Agenda%20for%20website.pdf

Topic	Discussion	Action Item
Welcome and Introductions: 9:00 am	Room introductions are noted in the attendee list.	
Public Comments: None	None	
Agenda Review: Approval of Minutes-June 10, 2021	Motion to approve: Dave Buettner & Brian Pedro	
Chairman's Report: APOT Report Core Measures Report QI Report	**APOT:** • Sacramento County is one of the 8th highest APOT in the state. • Significant rise in APOT times in August, with a slight improvement in September, October, and November. • APOT times are shown by the hospital for November. • In the APOT 3, anything over a 20 minute wall time starts to get added cumulatively.	Graphs attached to minutes

	- Some hospitals have more cumulative excess hours, possibly due to the higher EMS volume. - The Cost to EMS for excess hours due to APOT times has been added to present at MAC/OAC. The rate used to determine the cost to EMS providers is an agreed-upon rate between all California LEMSA's and is also used by EMSA. It is the same rate used when units are sent out on mutual aid assignments. The cost in November 2021 was $465,001.88. - Sac Metro/Sac City shared the graph created by them to show the APOT times in comparison to the response times. As the APOTS go up, the response times go up. - Dr. Garzon will be taking this information from Sac Metro/Sac City to the executive leadership to show how APOT times directly impact EMS response. D. Buettner is requesting the information in the Sac Metro/Sac City graphs be expanded to show the other providers in Sacramento County and to include Code 2 responses. D. Buettner requested the county look at calls that are dispatched as Code 2 and transported C-3 to be brought to the executive leadership as well. - EMSA data is presented showing APOT's by County. **Core Measures:** - Response time graphs from July 2021 – September 2021 show the time the 911 call was answered to the time crews arrived on scene. - Response time graphs from July 2021 – September 2021 showing from the time the unit was notified to the time the unit arrived on scene. - Psychiatric holds per hospital are presented. - Medical holds per hospital are presented. - Advisory Status is now separated into two different tables showing hospitals that went on Internal Disaster. - SCEMSA Imposed Diversion to help alleviate APOT times are shown from August 2021 – November 2021. - Diversion hours per month/hospital are shown for overcrowding from December 2020 – November 2021. - Internal Disaster Hours per Hospital from December 2020 – November 2021 are shown. - IFT totals per hospital are shown from July 2021 – September 2021. - IFT's with the primary impression of Trauma are shown from July 2021 – September 2021. - IFT's with the primary impression of STEMI are shown from July 2021 – September 2021. - IFT's with the primary impression of Stroke are shown from July 2021 – September 2021.	Graphs Attached in Minutes.

	• An Overview of 911 Response, Primary Impressions, AMA/Released at Scene is presented. **Pediatric:** • Total IFT's Patients <15 years old are shown from July 2021 –September 2021. • Number of 911 responses (despite outcome) per patient <15 are shown from July 2021 – September 2021. (Total Count: 1698). • Distribution of Scene Pediatric Patients to ED from July 2021 – November 2021. (Total transports: 772). • Top 25 Primary Impressions Pediatric Patient to ED from July 2021 – November 2021. **STEMI:** • Distribution of Treated & Transported Patients with Primary Impression of STEMI/Chest Pain Suspect Cardiac from July 2021 – November 2021. • STEMI Core Measures from July 2021 – November 2021. • UC Davis is working on a STEMI improvement project. Information will be discussed at TAG. • Time to ECG is in the 90th percentile with some room for improvement. • 138 STEMI activations were made in the 3rd quarter. **Cardiac Arrest:** • CARES Utstein Report – Sacramento vs. National Presumed Cardiac Cares Cases from July 2021 – November 2021. • Total numbers for the system is presented for Cardiac Arrest cases. **Stroke:** • The Stroke Measures presented as showing that documentation is improving. • The STEMI/Stroke dashboard is presented, showing system totals for each. • The destinations for the primary impression of Stroke are shown by the hospital. • 830 Stroke activations were made in the 3rd quarter. • UC Davis data shows that only half of the Stroke Alerts made are actual strokes. • As Stroke Scales improve and more education in correctly diagnosing Strokes in the field the hope is improper Stroke Alerts will diminish. **Trauma:** • Transported patient with a Primary Impression of Trauma from July 2021 – November 2021. • Scene Time for Patients with +TTC from July 2021 – November 2021. • Trauma/Hypoglycemia/Pediatric Dashboard from July 2021 – November 2021 is presented.	Graphs Attached to Minutes. Graphs Attached to Minutes. Graphs Attached to Minutes. Graphs Attached to Minutes. Graphs Attached to Minutes.

Old Business: **PD# 4003** **PD# 8032** **PD# 9007** **PD# 9008** **PD# 9011** **Supplemental New Business:** **Refusal of Service Workflow Chart** **Paramedic Skills Verification** **PD# 2524**	• Scene time for patients that meet TTC is averaging around 18 minutes which is the 90th percentile, but the median would be about 10 minutes. • 13.80% of Trauma had +TTC. • 98.62% of patients with +TTC were taken to a Trauma Center. **Dashboards: Miscellaneous Data Presented:** • Cardiopulmonary Arrest Dashboard – 2021 Third Quarter • STEMI & Stroke Dashboards – 2021 Third Quarter • Trauma/Hypoglycemia & Pediatric Dashboards – 2021 Third Quarter • Responses & Transport – 2021 Third Quarter **Old Business** **PD# 4003 – Emergency Medical Services Liaison Officer:** • Tabled until March due to internal discussion not taking place at the time of MAC/OAC meeting. **PD# 8032 – Traumatic Full Arrest: Bring Back with the edits added.** • **Dr. Garzon to Speak with Dr. Shatz during TRC-get an update as to how this is to be edited.** **PD# 9007 – Pediatric Diabetic Emergencies: APPROVED** **PD# 9008 – Pediatric Seizures: APPROVED** **PD# 9011 – Pediatric Overdose: APPROVED** with a **link added on our website for suspected abuse.** **Supplemental New Business:** **Refusal of Service Workflow Chart: APPROVED TO ADD TO AMA POLICY** **Paramedic Skills Verification: "DuoDote removed as reference" APPROVED** • Skills Sheets are based off of the National Registry can be used. • Skills step by step form has been updated and is available on the SCEMSA website under the paramedic accreditation tab. **PD# 2524 – Ambulance Offload Time: APPROVED** • This document was worked on and agreed upon with SCEMSA, Hospital Leadership and Fire Chiefs. • Objections were made that this policy was not sent out prior to the MAC/OAC meeting.	Link to Sacramento County APS and CPS for reporting suspected abuse posted on the website under policies and under form links

Scheduled Updates:	Scheduled Updates:	
PD# 2522	PD# 2522 – Electronic Health Care Record and Data Policy: **APPROVED**	
PD# 2525	PD# 2525 – Prehospital Notification: **APPROVED**	
PD# 4100	PD# 4100 – EMT Certification: **APPROVED**	
PD# 4150	PD# 4150 – EMT Certification Renewal: **APPROVED**	
PD# 4510	PD# 4510 – EMT Training Program: **APPROVED**	
PD# 4511	PD# 4511 – Advanced EMT Training Program: **APPROVED**	
PD# 4520	PD# 4520 – Paramedic Training Program: **APPROVED**	
PD# 7600	PD# 7600 – Quality Improvement Plan: **APPROVED**	
PD# 7601	PD# 7601 – Quality Improvement Program – Technical Advisory Group: **APPROVED**	
PD# 7602	PD# 7602 – Quality Assurance Program: **APPROVED**	
PD# 8063	PD# 8063 – Nausea-Vomiting: **APPROVED**	
PD# 8066	PD# 8066 – Pain Management: **APPROVED**	
PD# 9013	PD# 9013 – Pediatric-Shock: **APPROVED**	
PD# 9014	PD# 9014 – Pediatric- Cardiac Dysrhythmias: **APPROVED**	
PD# 9017	PD# 9017 – Pediatric-Trauma: **APPROVED**	
PD# 9018	PD# 9018 – Pediatric-Pain Management: **APPROVED**	
	Round Table : • Ben Merin: A new medication is available for COVID patients. AstraZeneca is preparing to send allocations for a new anti-viral oral medication to regional transplant centers. Unfortunately, AstraZeneca has an incomplete/incorrect list of RTC's, and only UCDMC and Sutter Sacramento are listed. If others are a transplant center, please contact Ben in order to get an allocation for your hospital. • Dave Magnino: I would like to thank SCEMSA staff members and Barbie Law for participating in the EMS ride this year. Nominees for the 2022 ride are now open. • Dr. Mackey: The National Association of Emergency Medical Technicians (NAEMT) has started a nationwide campaign to call for a congressional hearing to address the national EMS workforce shortage. An advocacy link is available through NAEMT website to generate an	

	automatic request to your congressional leaders to request a congressional hearing on the workforce shortage. • Kristin Bianco: If any provider is experiencing a workforce shortage and cannot provide ALS services 24/7, please notify SCEMSA as soon as possible. SCEMSA will place companies on our website that are currently hiring. • Dr Garzon: All healthcare is suffering from workforce shortages. 1/5 of health care workers have left their jobs since the COVID pandemic has started.	
Adjournment:	Adjournment: 12:00 PM	

Next MAC/OAC Meeting: March 10, 2022

APOT 1, 2 & 3 - ROLLING 12 MONTHS / SYSTEM

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*

APOT 1 - 90th Percentile
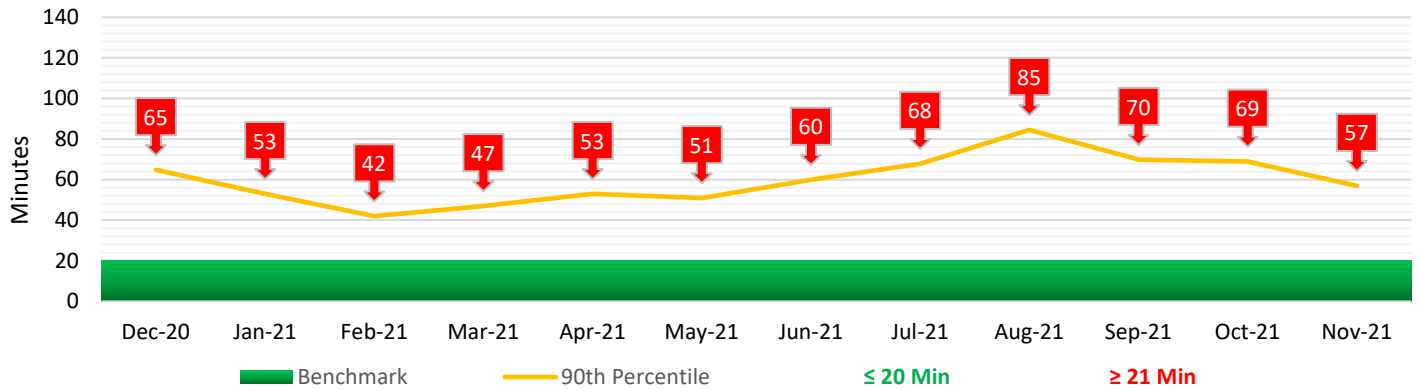
APOT 2 - Per Month

Excess Hours per Month - System / Rolling 12 Months

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.7.2021

APOT 1, 2 & 3 - ROLLING 12 MONTHS / KAISER NORTH

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*

APOT 1 - 90th Percentile

Month	90th Percentile
Dec-20	41
Jan-21	34
Feb-21	32
Mar-21	34
Apr-21	46
May-21	48
Jun-21	50
Jul-21	58
Aug-21	69
Sep-21	49
Oct-21	48
Nov-21	49

Benchmark — 90th Percentile   ≤ 20 Min   ≥ 21 Min

APOT - 2 Per Month

Minutes	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
No Data	11	3	3	2	2	1	1	3	2	7		3
181+												
121-180	7	1	1	5	5	13	9	25	38			12
61-120	55	25	10	25	54	66	93	115	164	85	80	73
21-60	576	521	430	565	568	715	696	715	715	750	736	691
-20	890	946	751	800	629	729	710	749	722	747	755	768

APOT-3 /Exces Hours per Month

Month	Excess Hours
Dec-20	152
Jan-21	105
Feb-21	76
Mar-21	113
Apr-21	172
May-21	239
Jun-21	257
Jul-21	337
Aug-21	418
Sep-21	251
Oct-21	234
Nov-21	246

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.7.2021
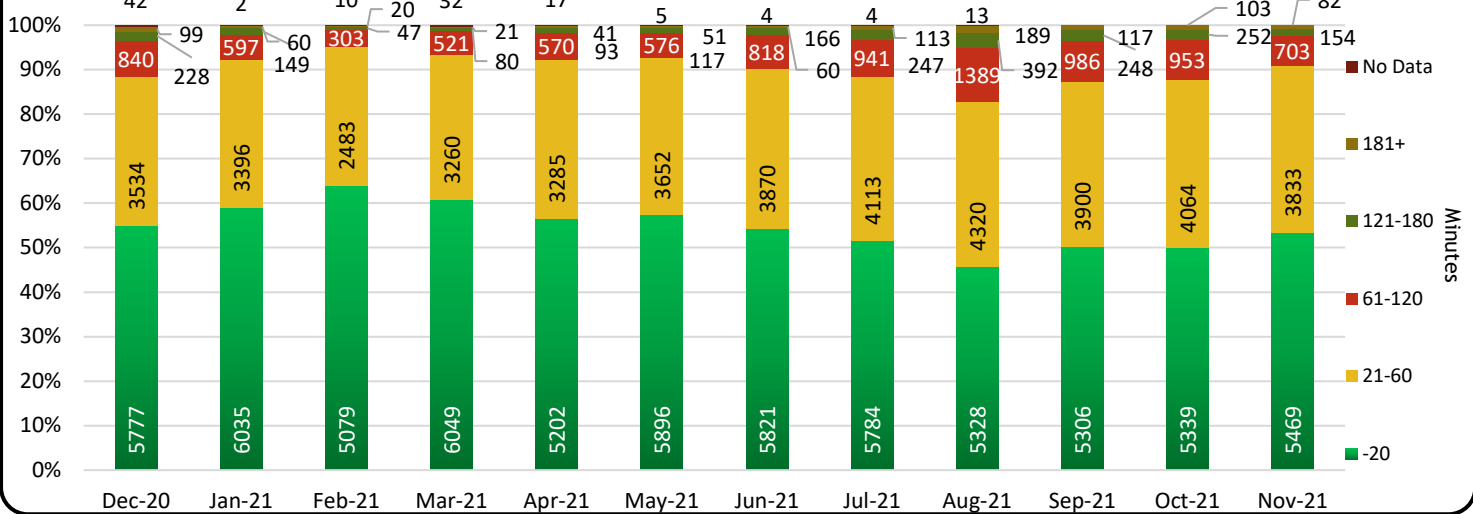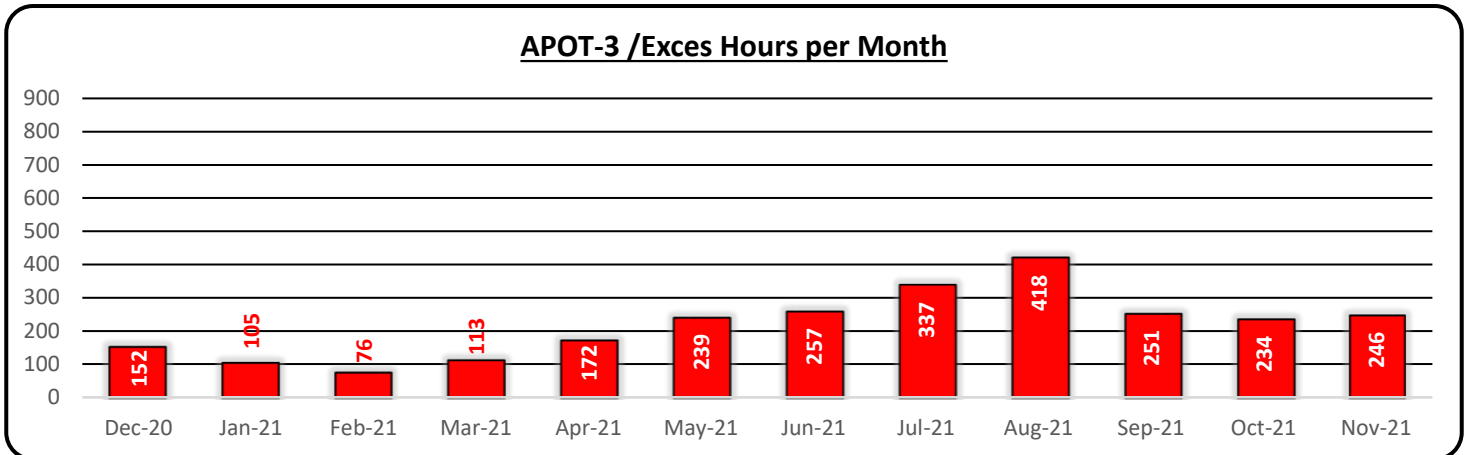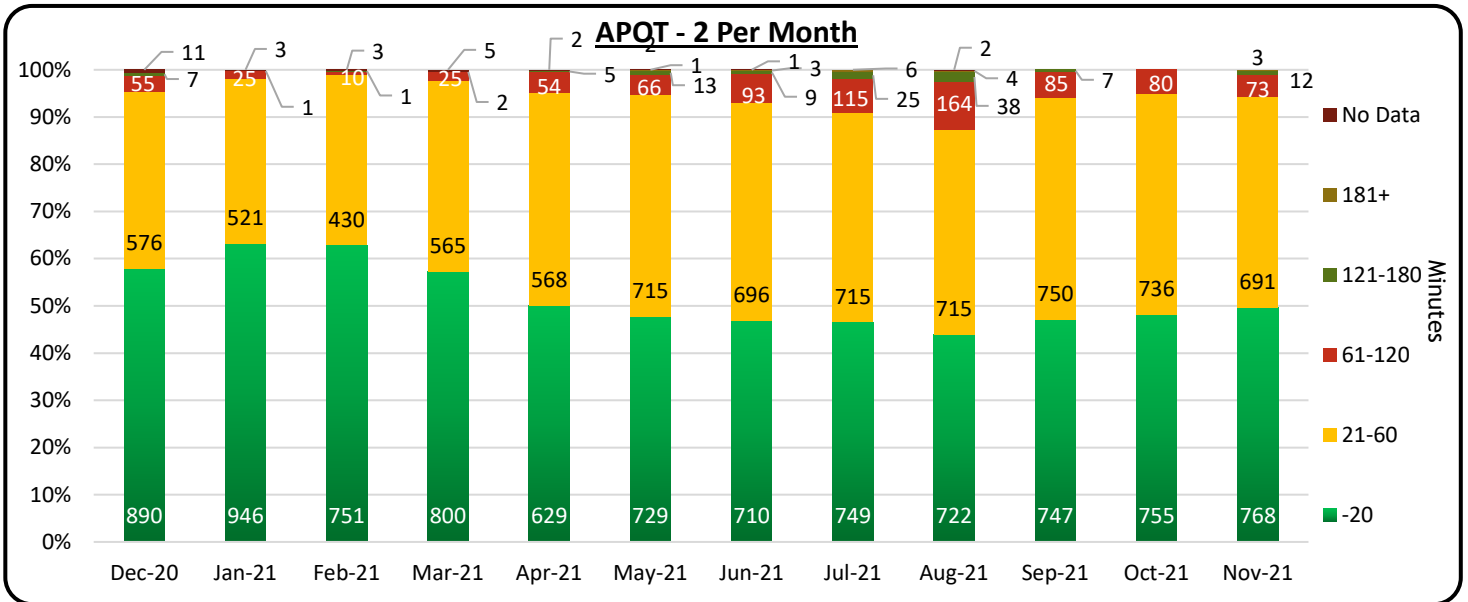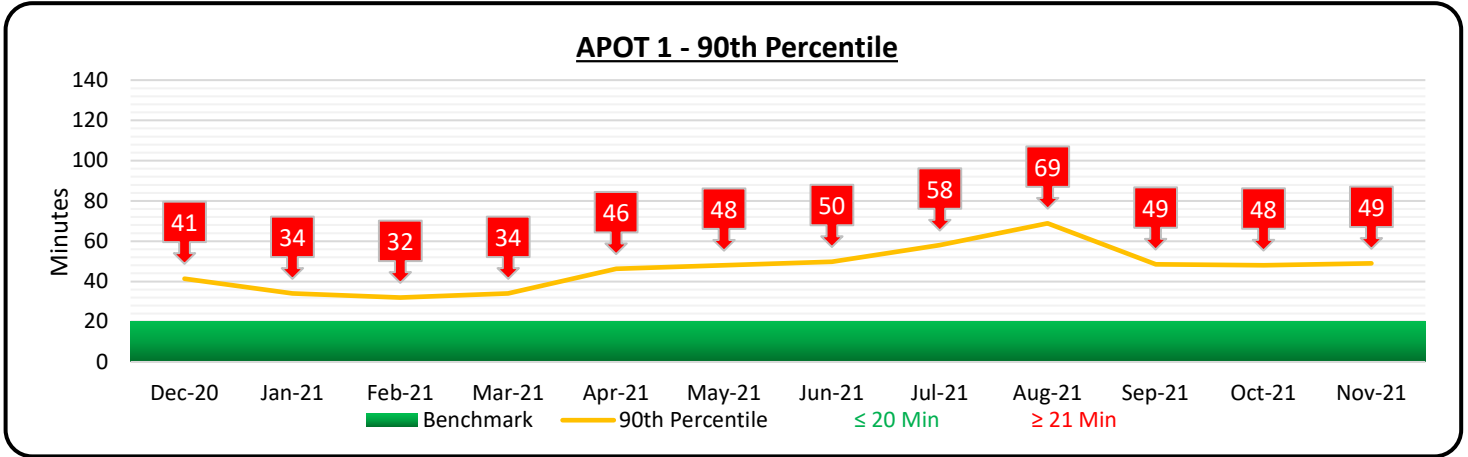
APOT 1, 2 & 3 - ROLLING 12 MONTHS / KAISER ROSEVILLE

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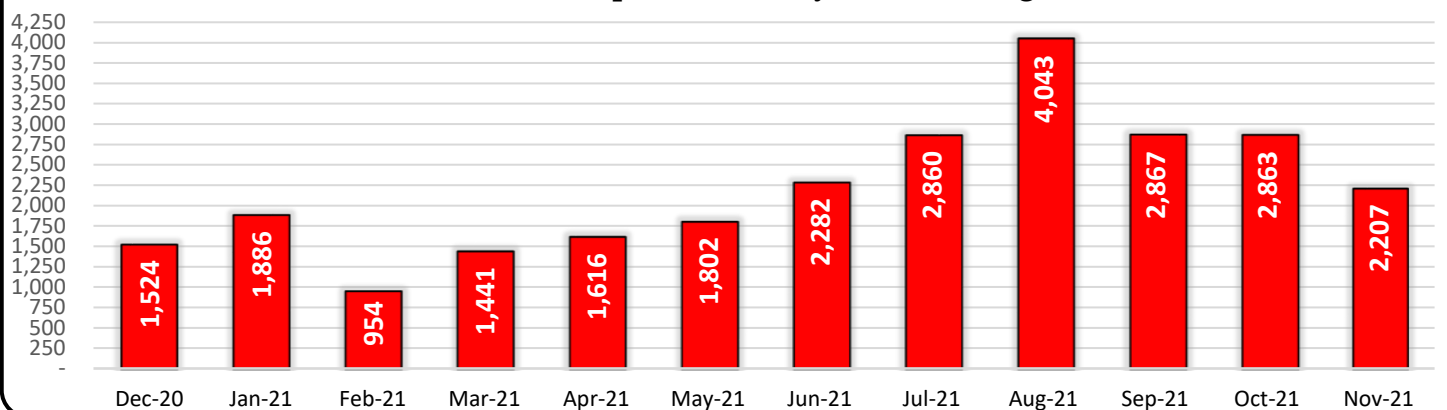
APOT 1 - 90th Percentile

Minutes

Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
43	43	39	35	59	34	41	57	103	69	55	59

—— Benchmark   **—— 90th Percentile**   **≤ 20 Min**   **≥ 21 Min**

APOT 2 - Per Month

Minutes

Legend: No Data, 181+, 121-180, 61-120, 21-60, -20

Month	-20	21-60	61-120	121-180	181+	No Data
Dec-20	463	208	35			3 / 1 / 4
Jan-21	429	188	23			3 / 7
Feb-21	371	128	13	1		1
Mar-21	448	176	22			3
Apr-21	331	176	44		6	3 / 1
May-21	489	184	14			
Jun-21	446	202	22			3
Jul-21	422	220	44		5	12
Aug-21	312	250	94	40	3	15
Sep-21	308	202	49		3	16
Oct-21	345	198	36	2		13
Nov-21	318	204	47		2	3

APOT-3 / Exces Hours per Month

Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
69	62	43	54	106	46	71	135	305	134	115	112

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.07.2021
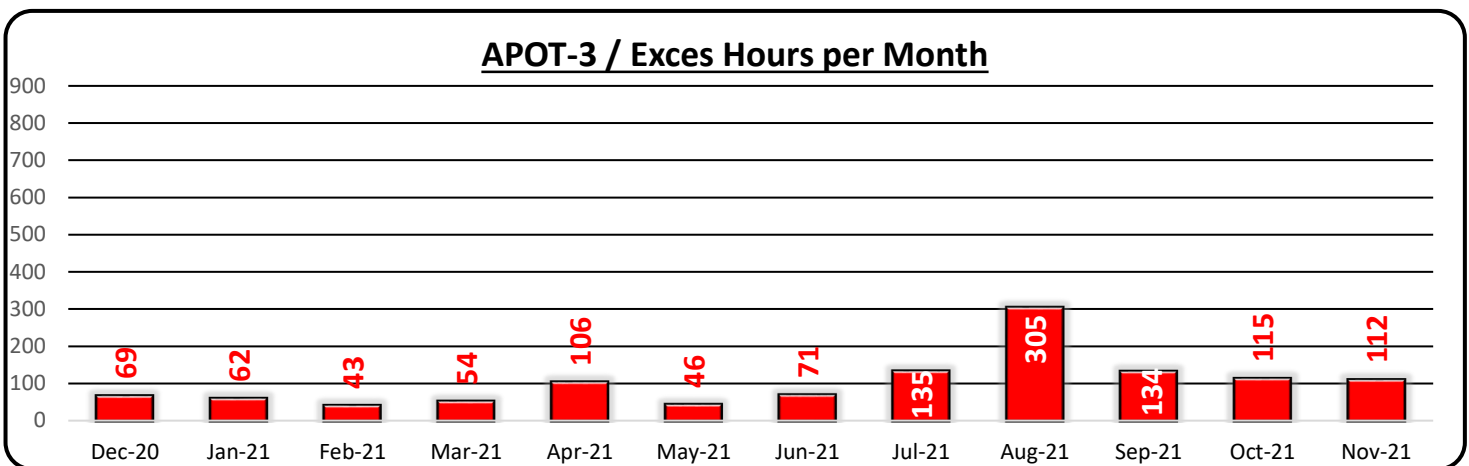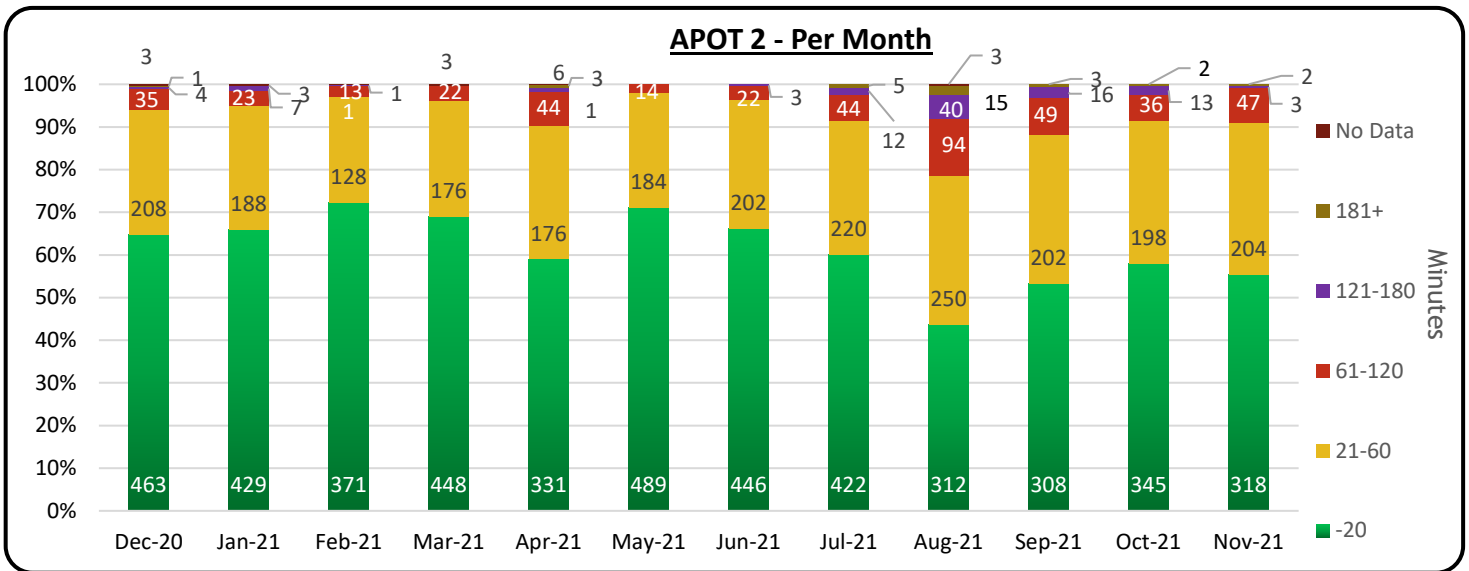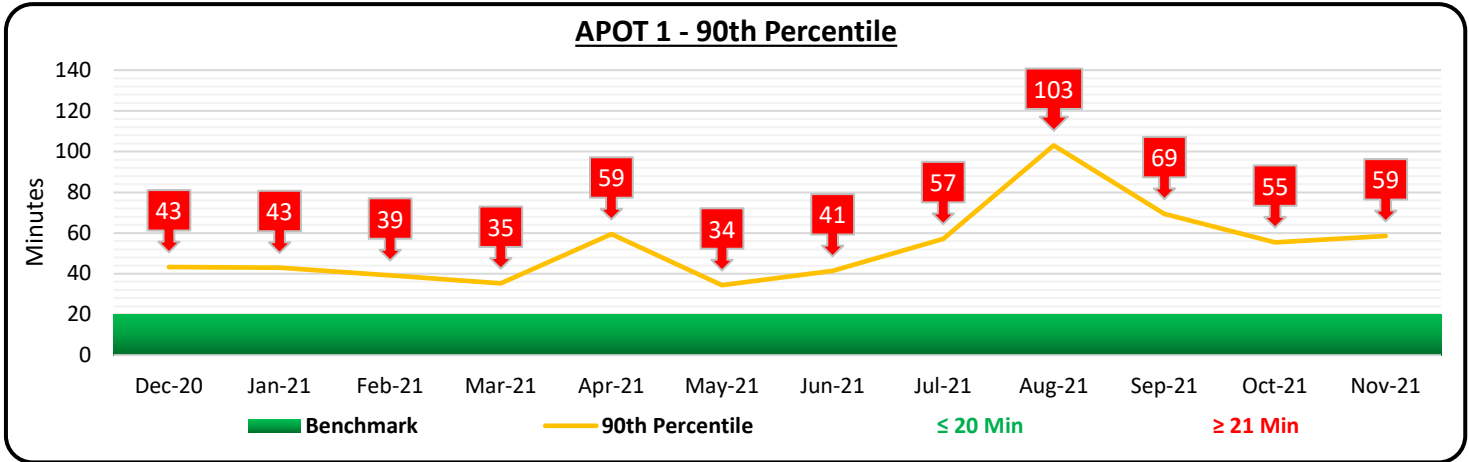
APOT 1, 2 & 3 - ROLLING 12 MONTHS / KAISER SOUTH

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*

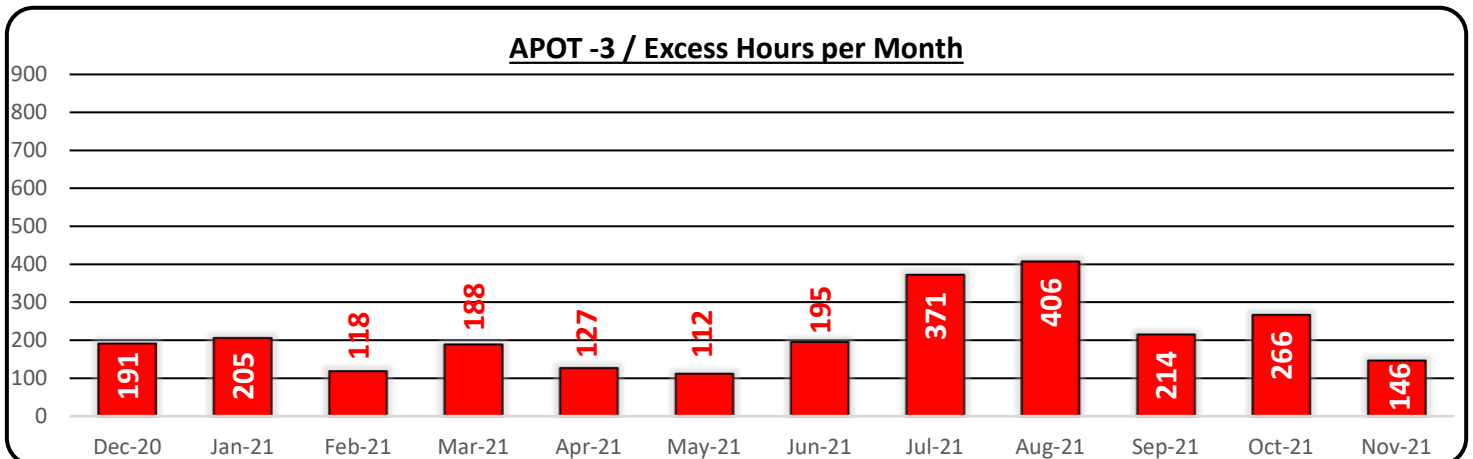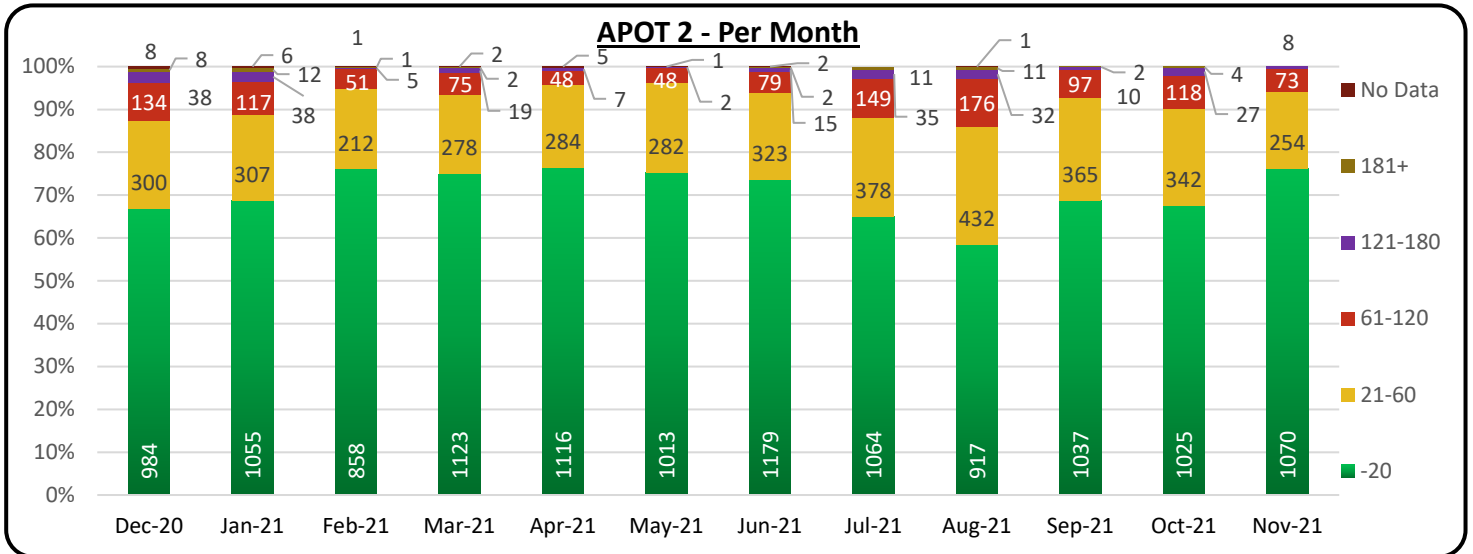### APOT 1 - 90th Percentile

	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
90th Percentile	71	65	43	44	36	37	43	70	77	51	60	42

Legend: Benchmark · 90th Percentile · ≤ 20 Min · ≥ 21 Min

APOT 2 - Per Month

Range	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
No Data	8	6	1	2	5	2	2	11	1	2	4	8
181+	8	12	5	2	7	1	2	35	11	10	27	73
121-180	38	38	51	19	48	48	15	149	32	97	118	254
61-120	134	117	212	75	284	282	79	378	176	365	342	1070
21-60	300	307	858	278	1116	1013	323	1064	432	1037	1025	
-20	984	1055		1123			1179		917			

APOT -3 / Excess Hours per Month

	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Excess Hours	191	205	118	188	127	112	195	371	406	214	266	146

APOT 1, 2 & 3 - ROLLING 12 MONTHS / MERCY GENERAL

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*

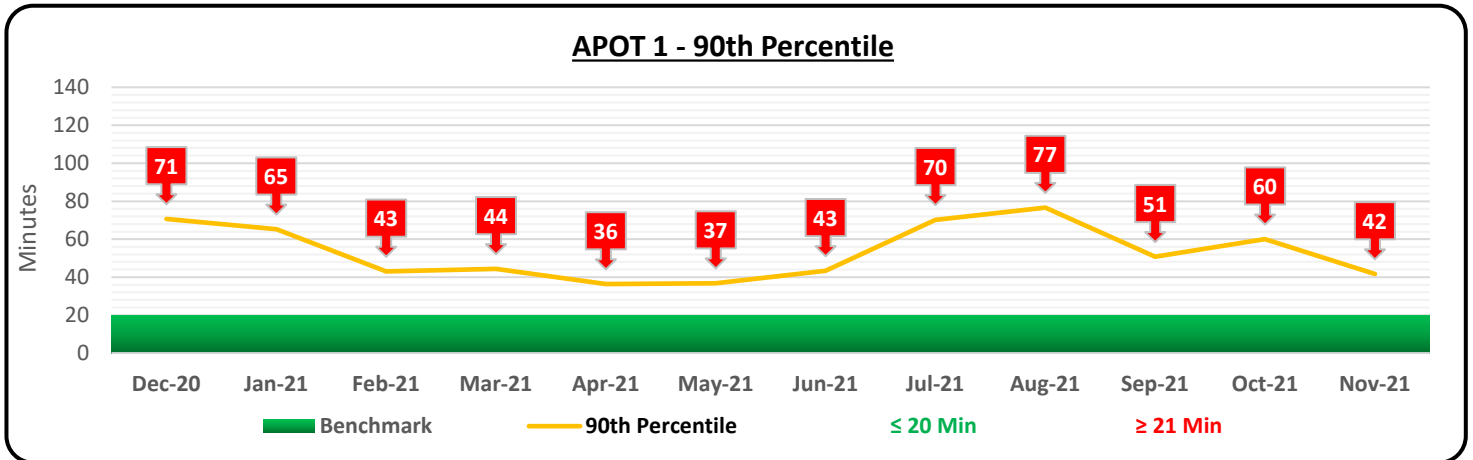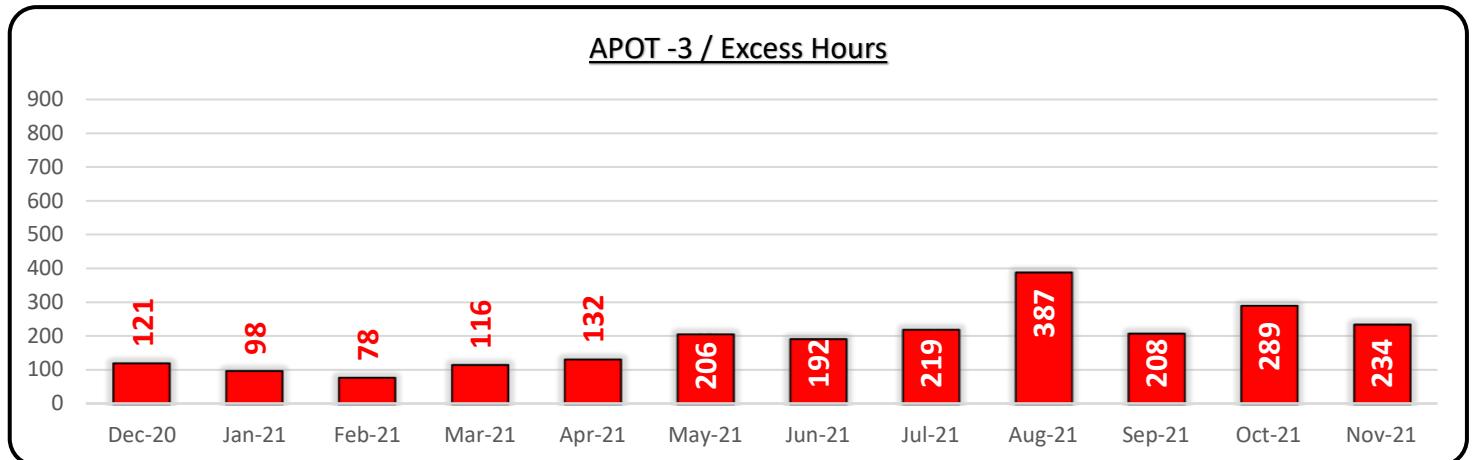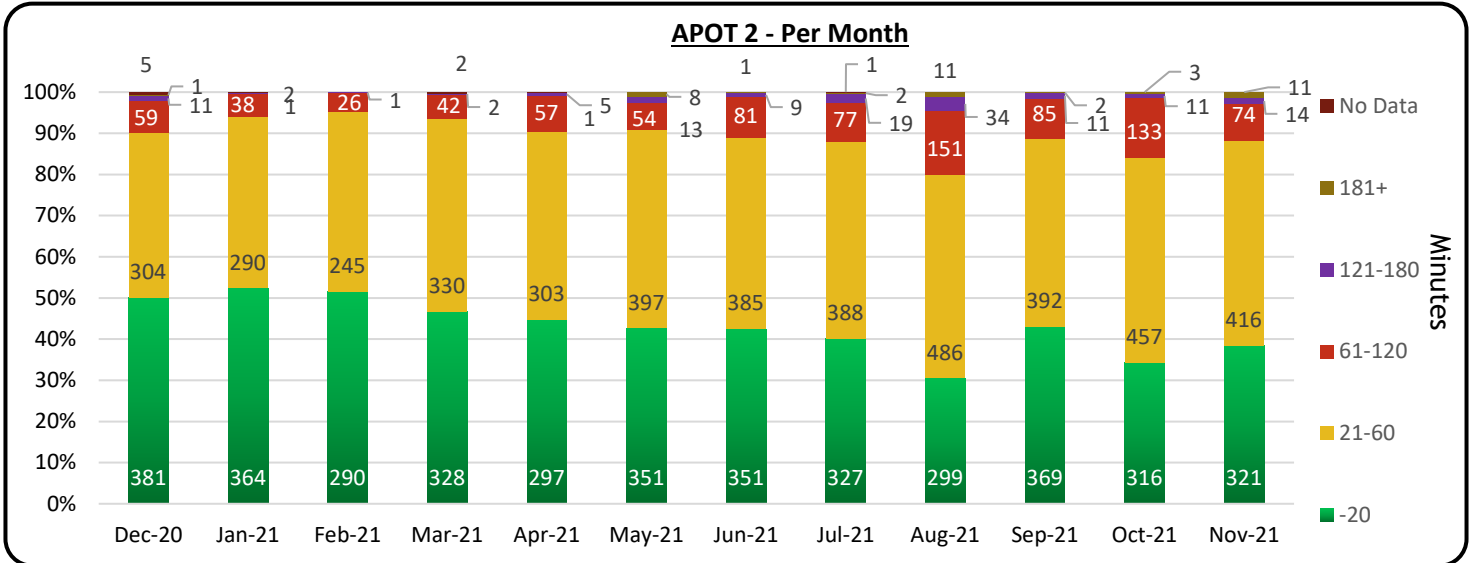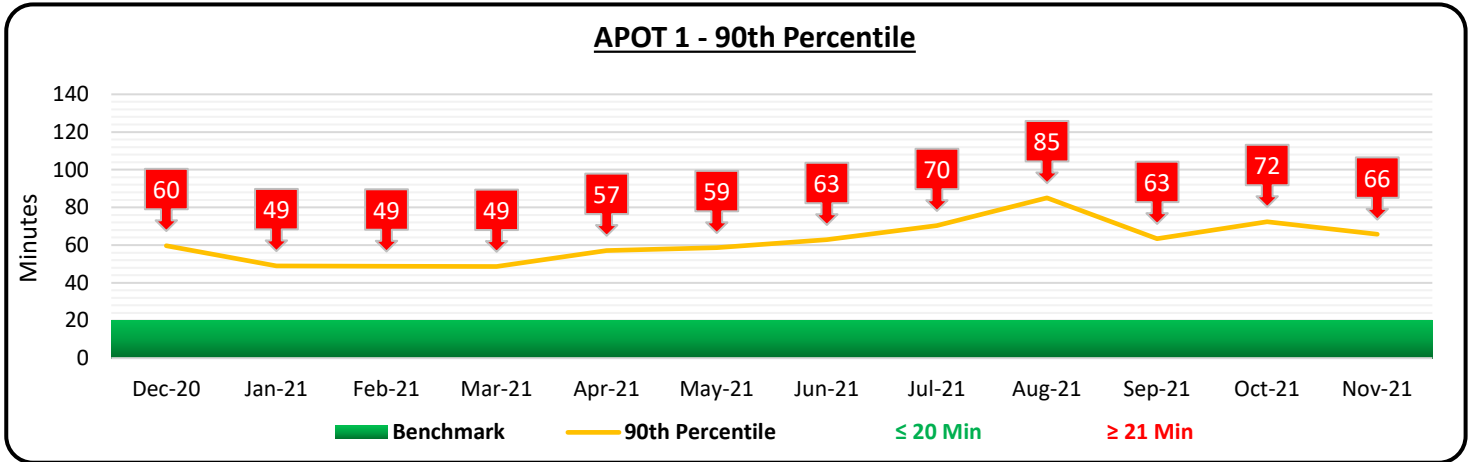**APOT 1 - 90th Percentile**

Month	90th Percentile (min)
Dec-20	60
Jan-21	49
Feb-21	49
Mar-21	49
Apr-21	57
May-21	59
Jun-21	63
Jul-21	70
Aug-21	85
Sep-21	63
Oct-21	72
Nov-21	66

Legend: ■ Benchmark — 90th Percentile   ≤ 20 Min   ≥ 21 Min

APOT 2 - Per Month

Month	-20	21-60	61-120	121-180	181+	No Data
Dec-20	381	304	59		1	11 (5)
Jan-21	364	290	38		2	1
Feb-21	290	245	26		1	
Mar-21	328	330	42		2	5
Apr-21	297	303	57		1	13 (8)
May-21	351	397	54		1	9
Jun-21	351	385	81			
Jul-21	327	388	77	1	2	19 (11)
Aug-21	299	486	151			34
Sep-21	369	392	85		2	11 (3)
Oct-21	316	457	133			11 (11)
Nov-21	321	416	74			14

Legend (Minutes): ■ No Data ■ 181+ ■ 121-180 ■ 61-120 ■ 21-60 ■ -20

APOT -3 / Excess Hours

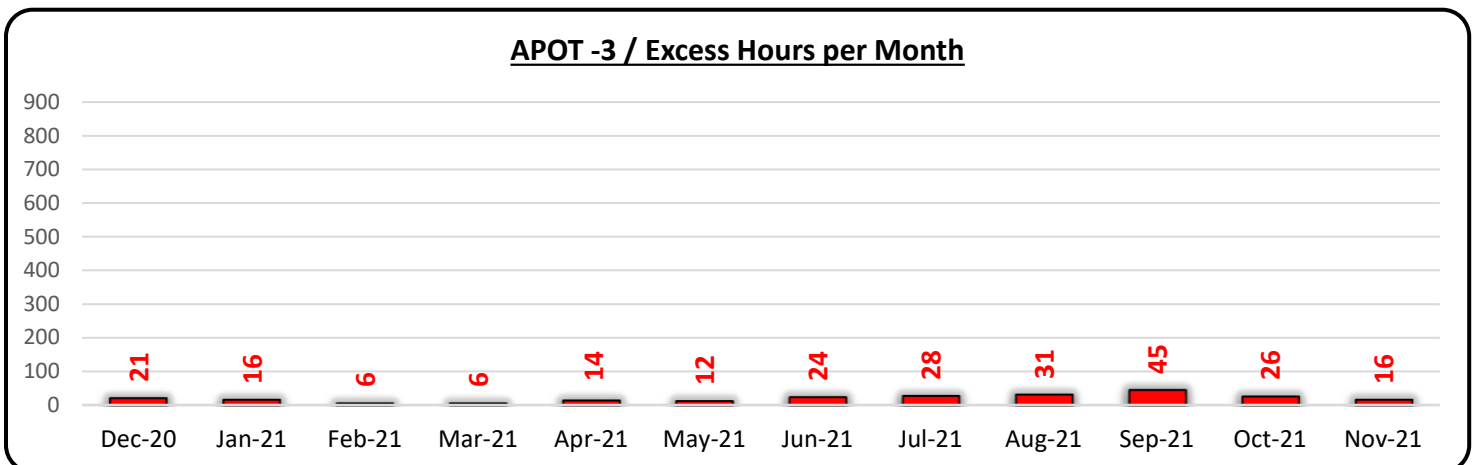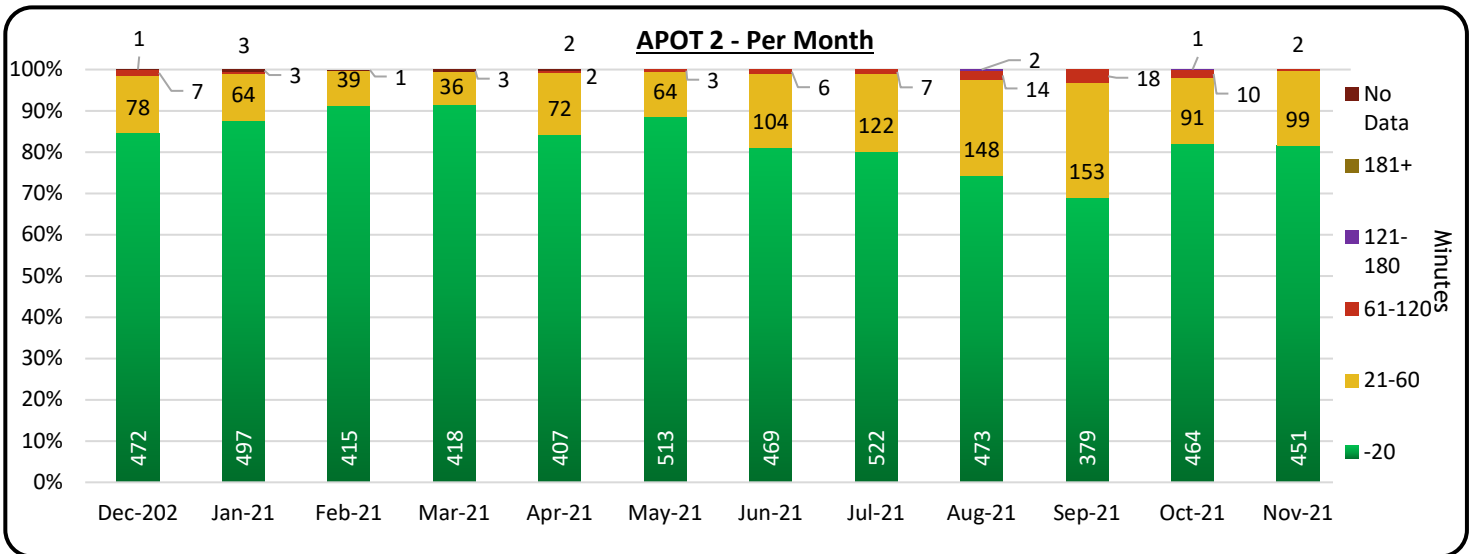| Month	Excess Hours
Dec-20	121
Jan-21	98
Feb-21	78
Mar-21	116
Apr-21	132
May-21	206
Jun-21	192
Jul-21	219
Aug-21	387
Sep-21	208
Oct-21	289
Nov-21	234

APOT 1, 2 & 3 - ROLLING 12 MONTHS / MERCY OF FOLSOM

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APOT 1 - 90th Percentile

Month	90th Percentile (min)
Dec-20	26
Jan-21	23
Feb-21	20
Mar-21	19
Apr-21	25
May-21	22
Jun-21	28
Jul-21	30
Aug-21	31
Sep-21	37
Oct-21	27
Nov-21	25

Legend: Benchmark — 90th Percentile — ≤ 20 Min — ≥ 21 Min

APOT 2 - Per Month (values in minutes categories: -20, 21-60, 61-120, 121-180, 181+, No Data)

Month	-20	21-60	61-120	No Data
Dec-202	472	78	7	1
Jan-21	497	64	3	3
Feb-21	415	39	1	
Mar-21	418	36	3	
Apr-21	407	72	2	
May-21	513	64	3	
Jun-21	469	104	6	
Jul-21	522	122	7	
Aug-21	473	148	14	2
Sep-21	379	153	18	
Oct-21	464	91	10	1
Nov-21	451	99		2

APOT -3 / Excess Hours per Month

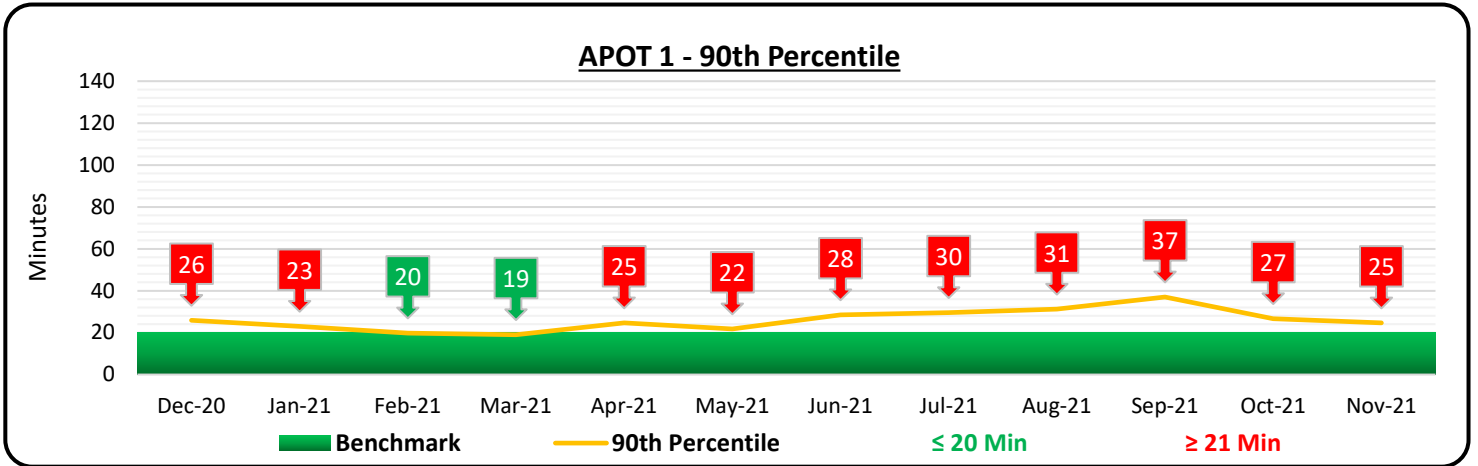| Month	Excess Hours
Dec-20	21
Jan-21	16
Feb-21	6
Mar-21	6
Apr-21	14
May-21	12
Jun-21	24
Jul-21	28
Aug-21	31
Sep-21	45
Oct-21	26
Nov-21	16

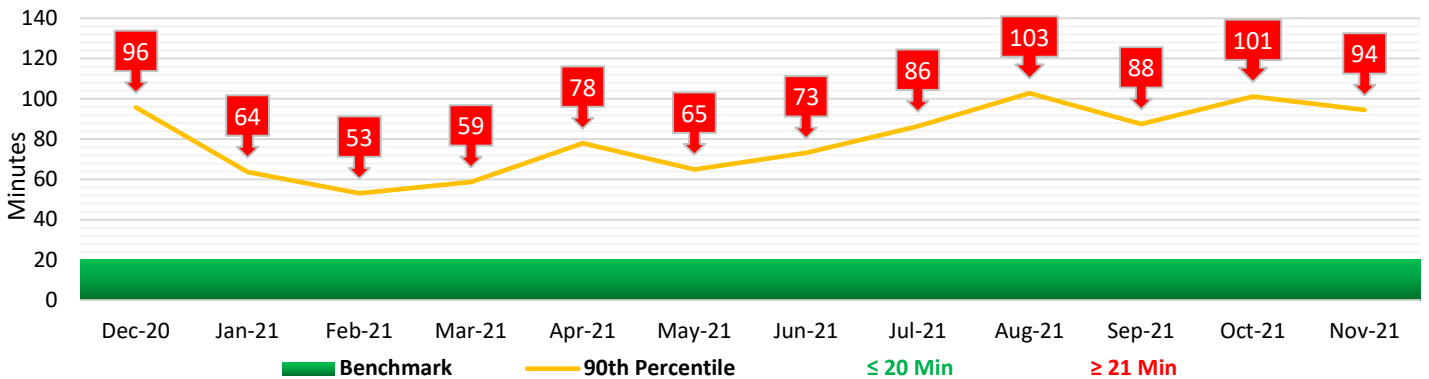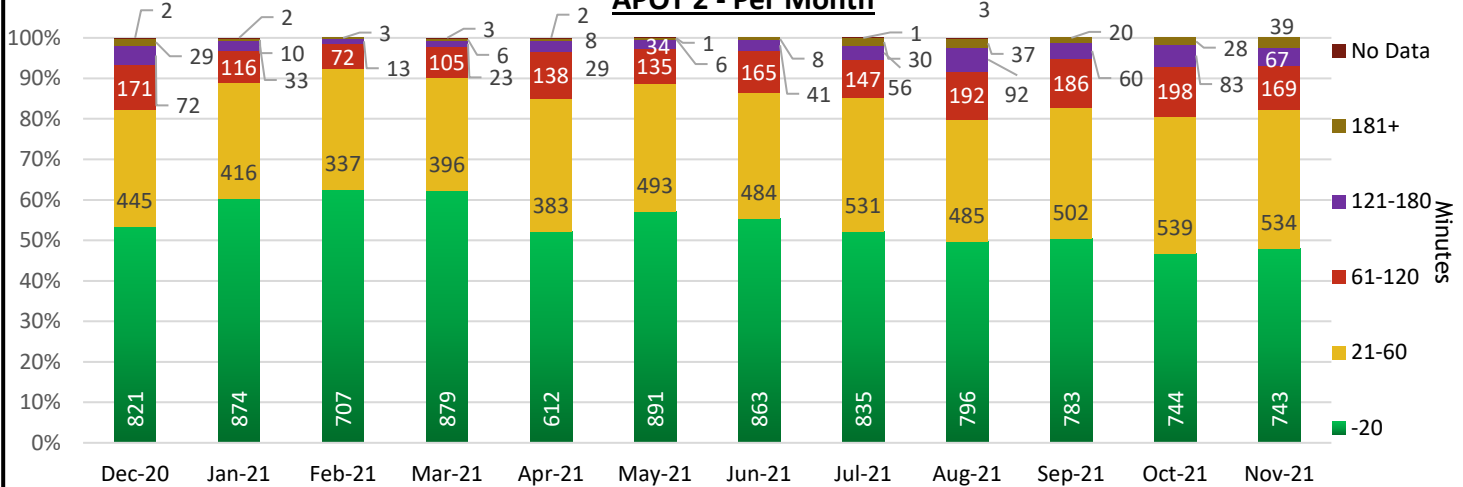# APOT 1, 2 & 3 - ROLLING 12 MONTHS / MERCY SAN JUAN

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APOT 1 - 90th Percentile

Month	90th Percentile
Dec-20	96
Jan-21	64
Feb-21	53
Mar-21	59
Apr-21	78
May-21	65
Jun-21	73
Jul-21	86
Aug-21	103
Sep-21	88
Oct-21	101
Nov-21	94

Legend: **Benchmark**, **90th Percentile**, ≤ 20 Min, ≥ 21 Min

APOT 2 - Per Month

Legend (Minutes): No Data, 181+, 121-180, 61-120, 21-60, -20

Month	-20	21-60	61-120	121-180	181+	No Data
Dec-20	821	445	171	29	72	2
Jan-21	874	416	116	33	10	2
Feb-21	707	337	72	13	3	
Mar-21	879	396	105	23	6	3
Apr-21	612	383	138	29	8	2
May-21	891	493	135	6	1	34
Jun-21	863	484	165	41	8	
Jul-21	835	531	147	56	30	1
Aug-21	796	485	192	92	37	3
Sep-21	783	502	186	60	20	
Oct-21	744	539	198	83	28	
Nov-21	743	534	169	67	39	

APOT -3 /Excess Hours per Month

Month	Excess Hours
Dec-20	264
Jan-21	244
Feb-21	185
Mar-21	287
Apr-21	326
May-21	340
Jun-21	393
Jul-21	506
Aug-21	650
Sep-21	516
Oct-21	617
Nov-21	583

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.7.2021

APOT 3 - ROLLING 12 MONTHS / MERCY METHODIST

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*
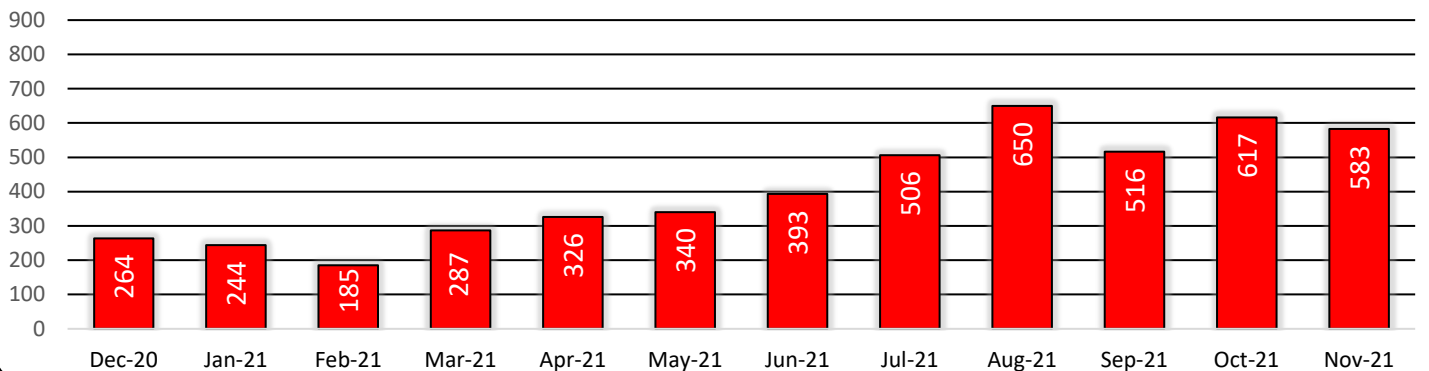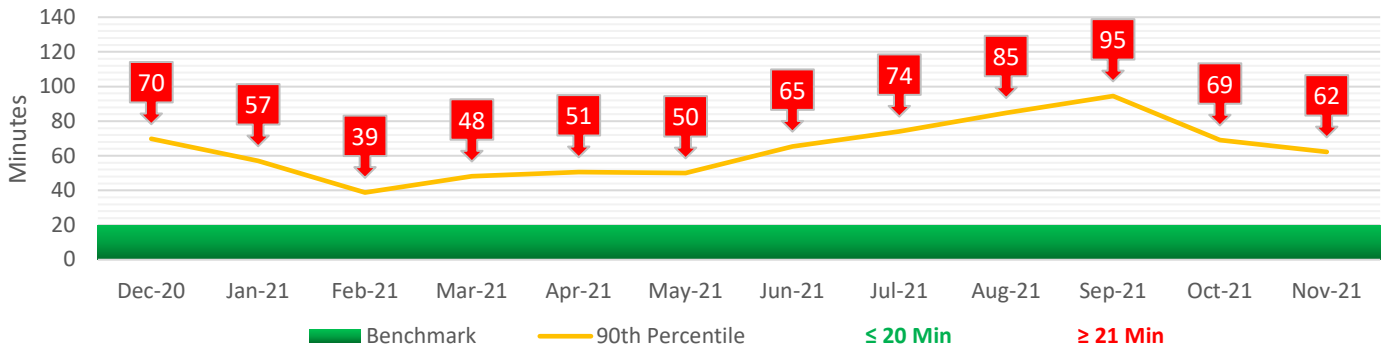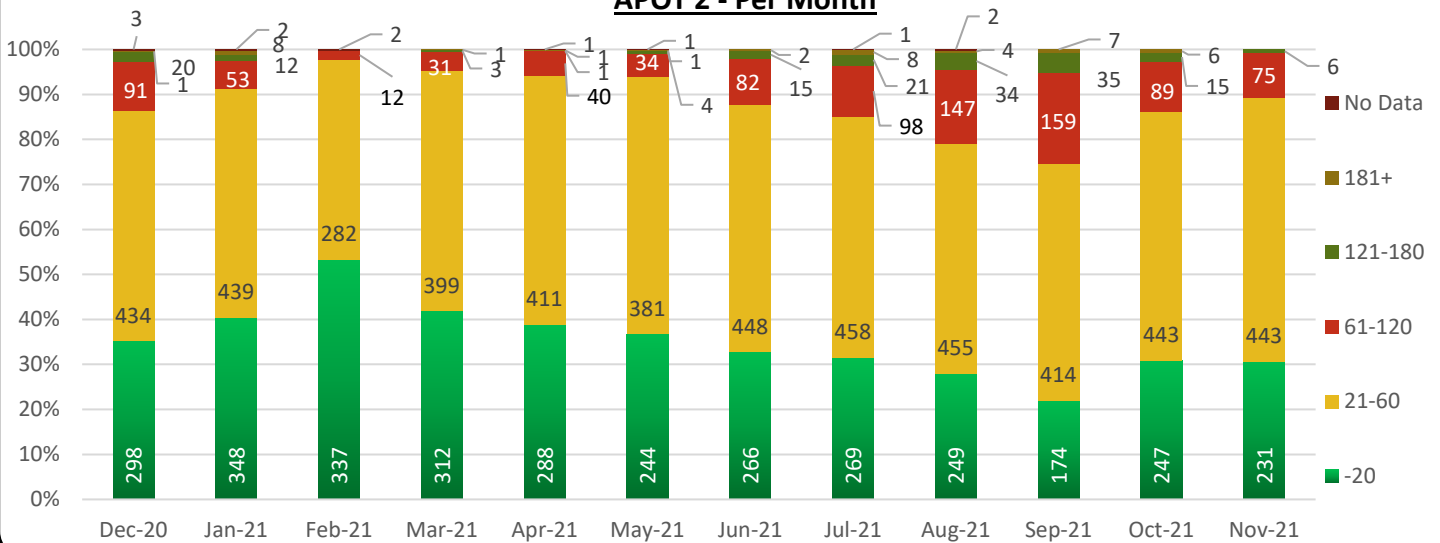
APOT 1 - 90th Percentile

Benchmark — 90th Percentile — ≤ 20 Min — ≥ 21 Min

Values: Dec-20: 70, Jan-21: 57, Feb-21: 39, Mar-21: 48, Apr-21: 51, May-21: 50, Jun-21: 65, Jul-21: 74, Aug-21: 85, Sep-21: 95, Oct-21: 69, Nov-21: 62

APOT 2 - Per Month

Legend: No Data, 181+, 121-180, 61-120, 21-60, -20

APOT -3 / Excess Hours per Month

Values: Dec-20: 185, Jan-21: 163, Feb-21: 61, Mar-21: 124, Apr-21: 133, May-21: 125, Jun-21: 226, Jul-21: 283, Aug-21: 357, Sep-21: 376, Oct-21: 256, Nov-21: 185

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.7.2021

APOT 1, 2 & 3 - ROLLING 12 MONTHS / SUTTER ROSEVILLE

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*

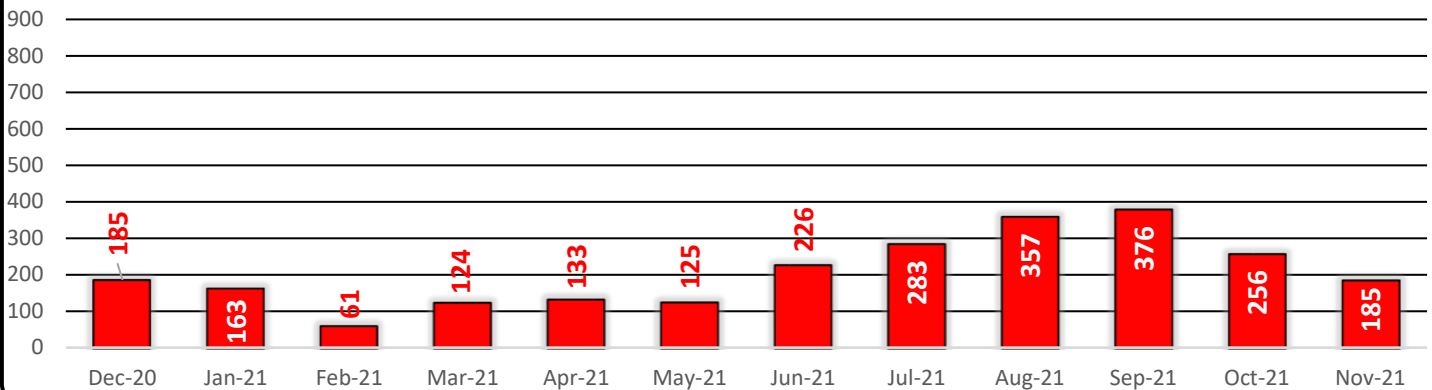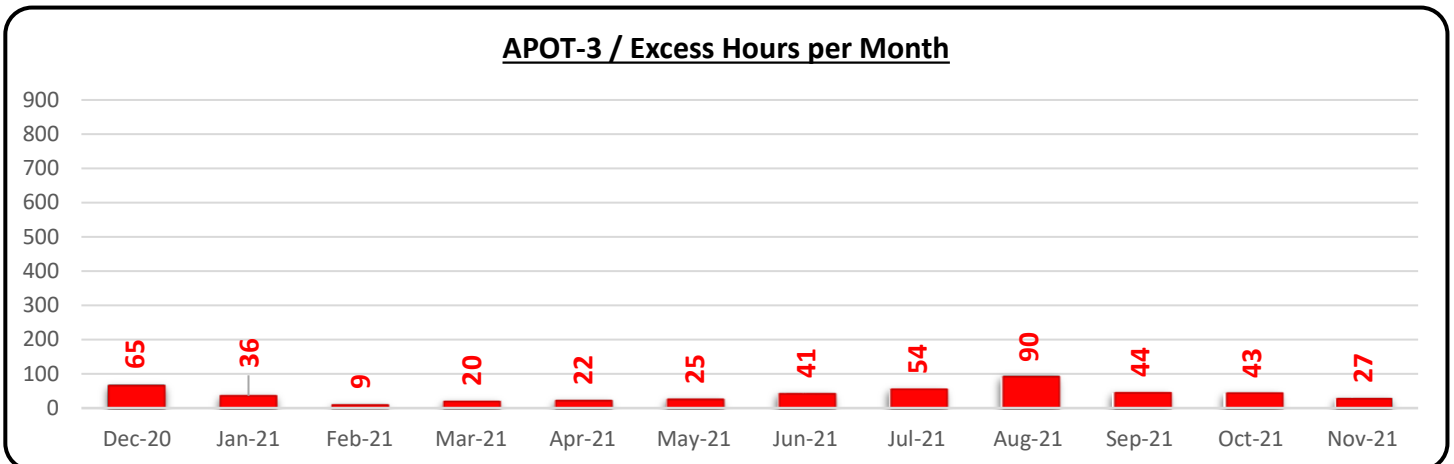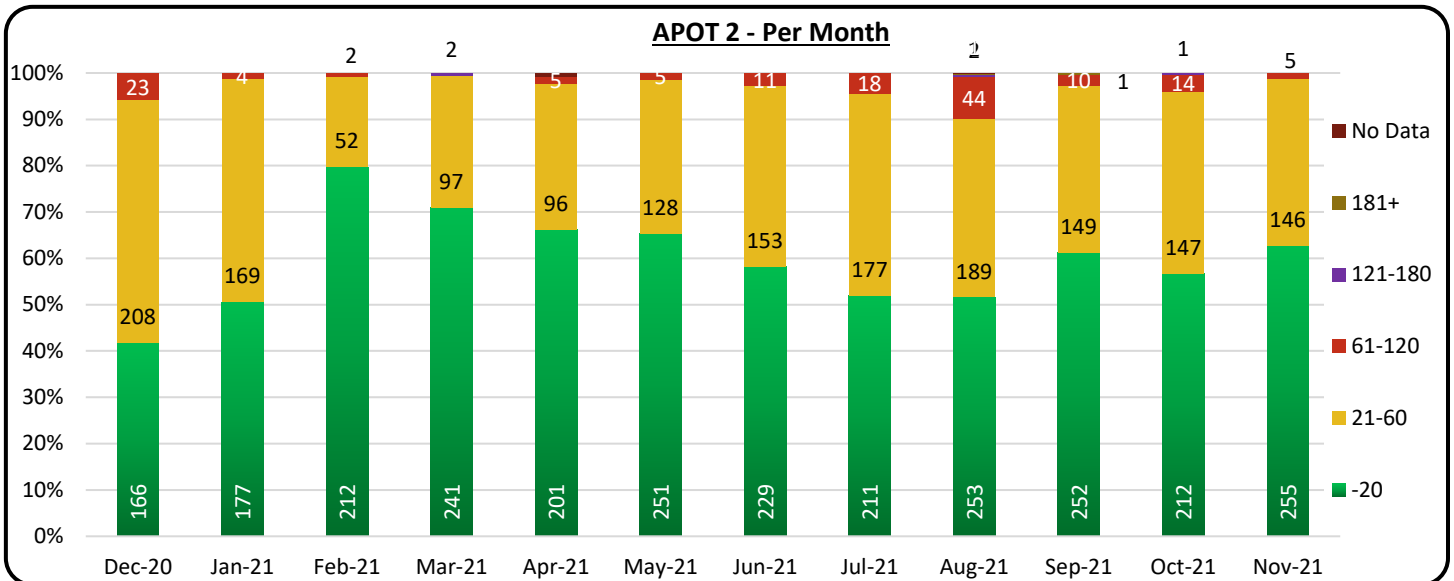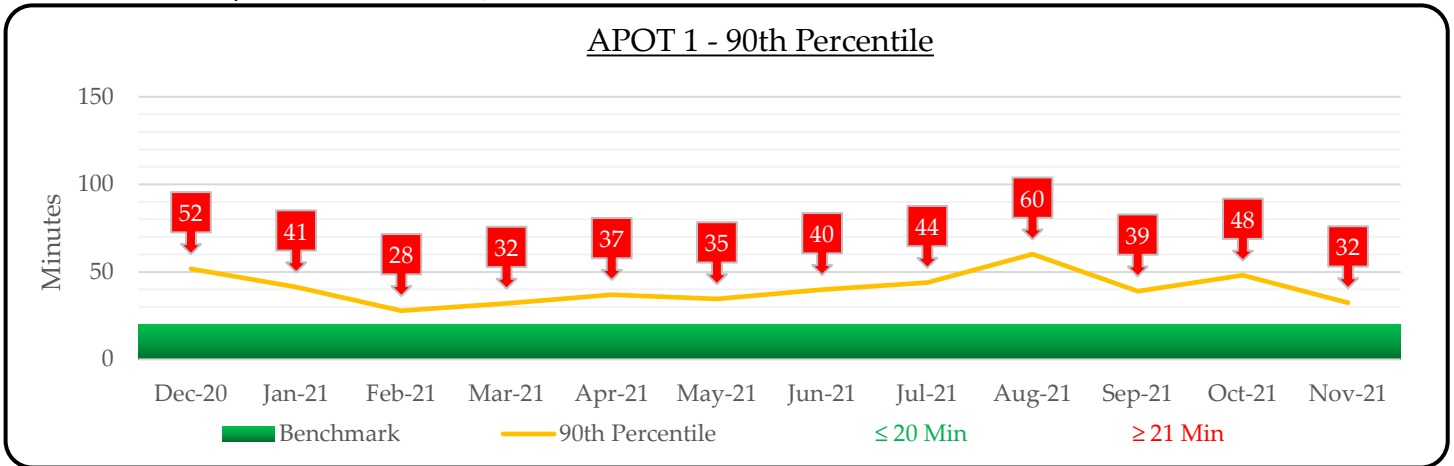## APOT 1 - 90th Percentile

Minutes

Month	90th Percentile
Dec-20	52
Jan-21	41
Feb-21	28
Mar-21	32
Apr-21	37
May-21	35
Jun-21	40
Jul-21	44
Aug-21	60
Sep-21	39
Oct-21	48
Nov-21	32

Legend: ▬ Benchmark ▬ 90th Percentile ≤ 20 Min ≥ 21 Min

APOT 2 - Per Month

Legend: ■ No Data ■ 181+ ■ 121-180 ■ 61-120 ■ 21-60 ■ -20

Month	-20	21-60	61-120	Other
Dec-20	166	208	23	
Jan-21	177	169	4	
Feb-21	212	52		2
Mar-21	241	97		2
Apr-21	201	96	5	
May-21	251	128	5	
Jun-21	229	153	11	
Jul-21	211	177	18	
Aug-21	253	189	44	2
Sep-21	252	149	10	1
Oct-21	212	147	14	1
Nov-21	255	146	5	

APOT-3 / Excess Hours per Month

Month	Excess Hours
Dec-20	65
Jan-21	36
Feb-21	9
Mar-21	20
Apr-21	22
May-21	25
Jun-21	41
Jul-21	54
Aug-21	90
Sep-21	44
Oct-21	43
Nov-21	27

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.7.2021

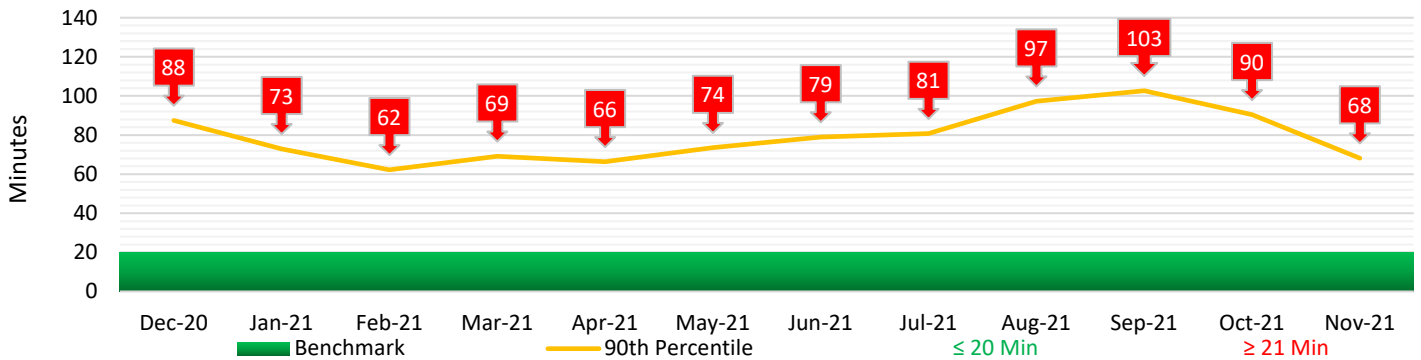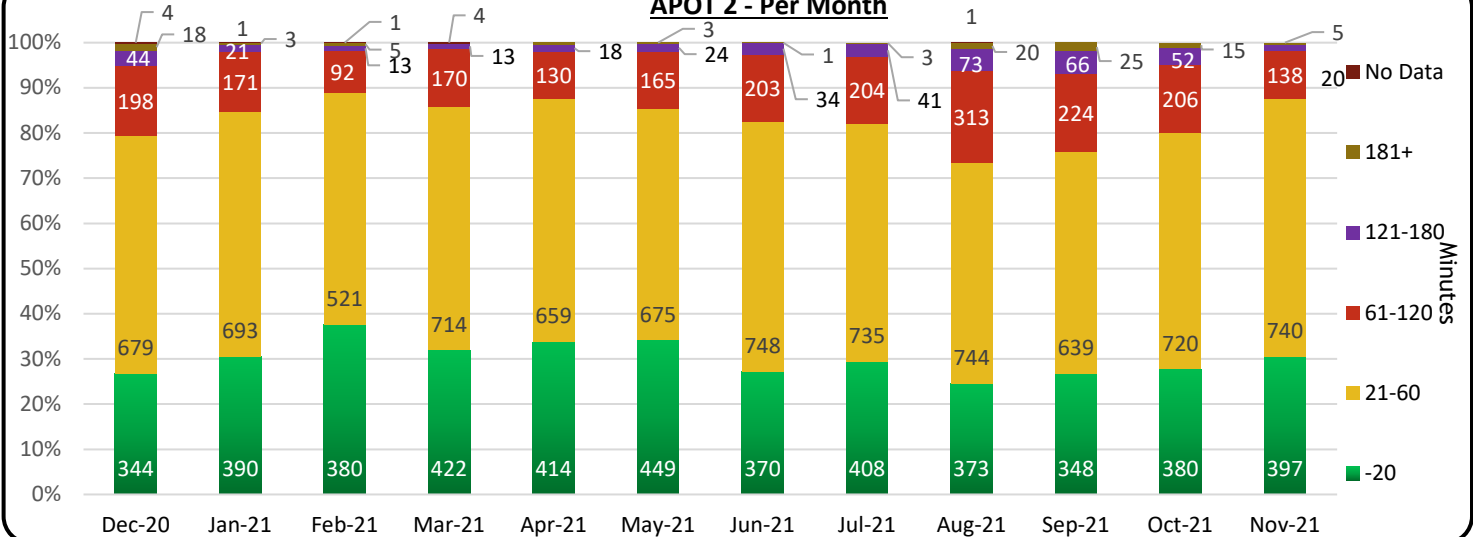# APOT 1, 2 & 3 - ROLLING 12 MONTHS / SUTTER SACRAMENTO

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*

APOT 1 - 90th Percentile

Data labels: Dec-20: 88, Jan-21: 73, Feb-21: 62, Mar-21: 69, Apr-21: 66, May-21: 74, Jun-21: 79, Jul-21: 81, Aug-21: 97, Sep-21: 103, Oct-21: 90, Nov-21: 68

Legend: Benchmark, 90th Percentile, ≤ 20 Min, ≥ 21 Min

APOT 2 - Per Month

Legend (Minutes): No Data, 181+, 121-180, 61-120, 21-60, -20

Month	-20	21-60	61-120	121-180	181+	No Data
Dec-20	344	679	198	44	18	4
Jan-21	390	693	171	21	3	1
Feb-21	380	521	92	5	13	1
Mar-21	422	714	170	13	18	4
Apr-21	414	659	130			
May-21	449	675	165	24	3	
Jun-21	370	748	203	34	1	
Jul-21	408	735	204	41	3	
Aug-21	373	744	313	73	20	1
Sep-21	348	639	224	66	25	
Oct-21	380	720	206	52	15	
Nov-21	397	740	138	20	5	

APOT -3 /Excess Hours per Month

Data labels: Dec-20: 345, Jan-21: 361, Feb-21: 244, Mar-21: 379, Apr-21: 338, May-21: 402, Jun-21: 483, Jul-21: 501, Aug-21: 750, Sep-21: 636, Oct-21: 566, Nov-21: 393

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.7.2021

APOT 1, 2 & 3 - ROLLING 12 MONTHS / UC DAVIS

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*
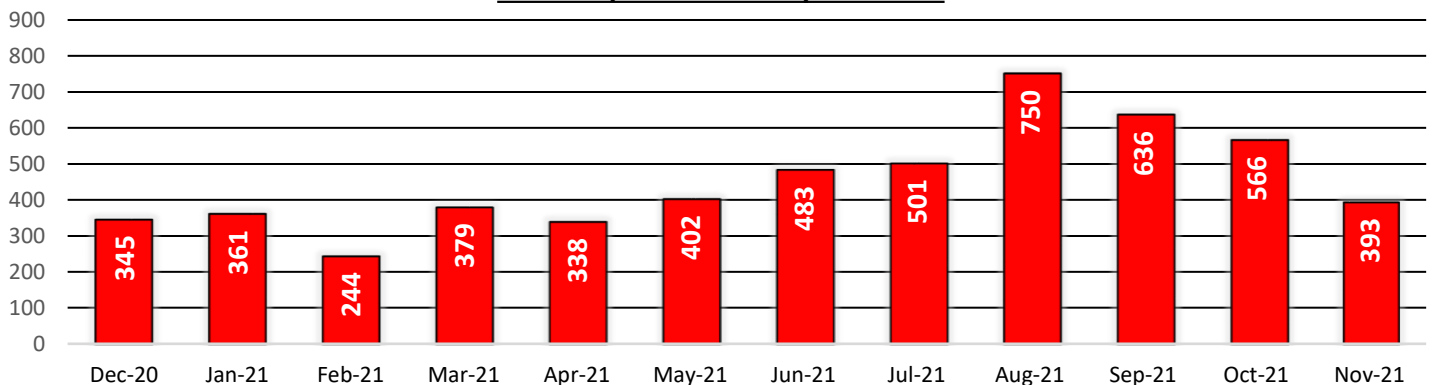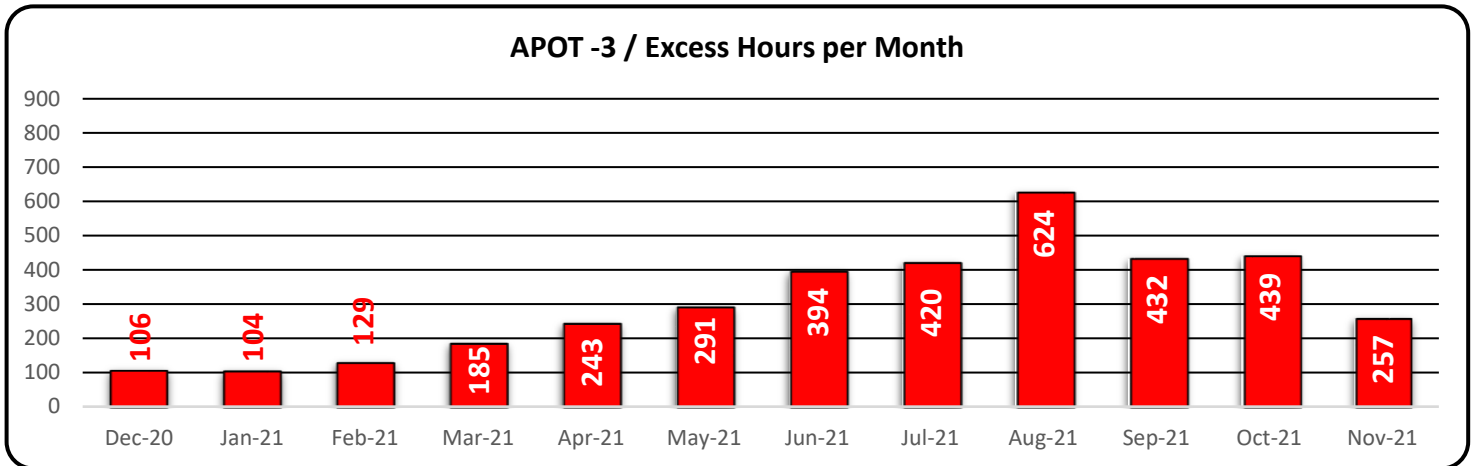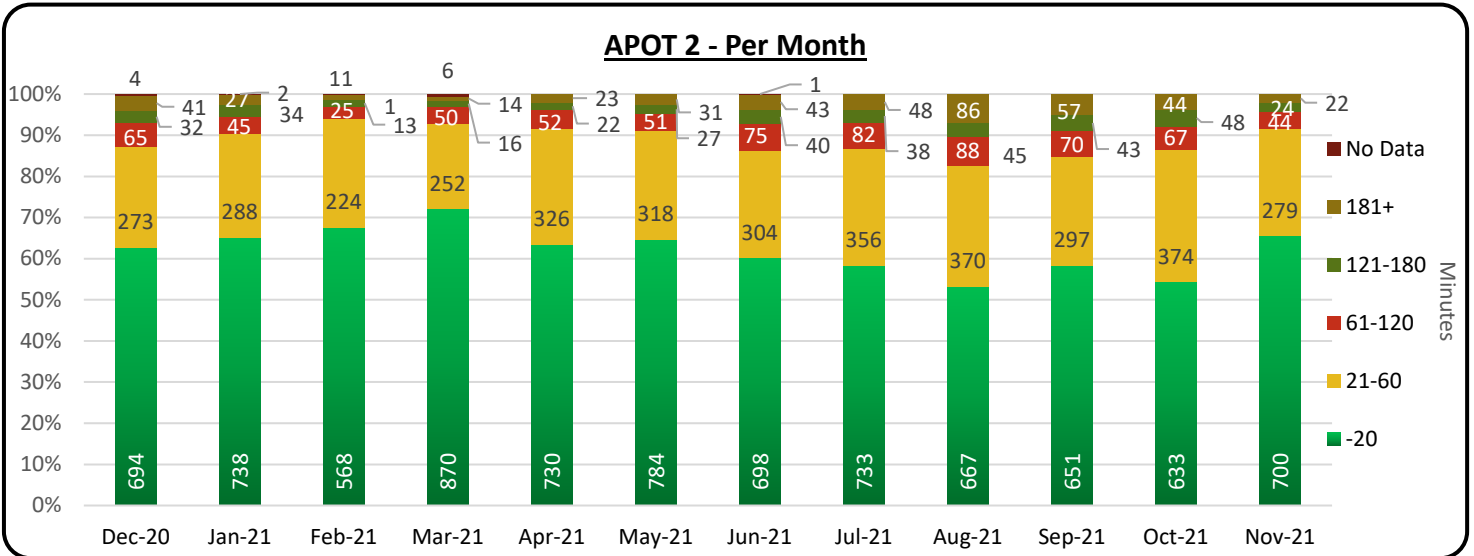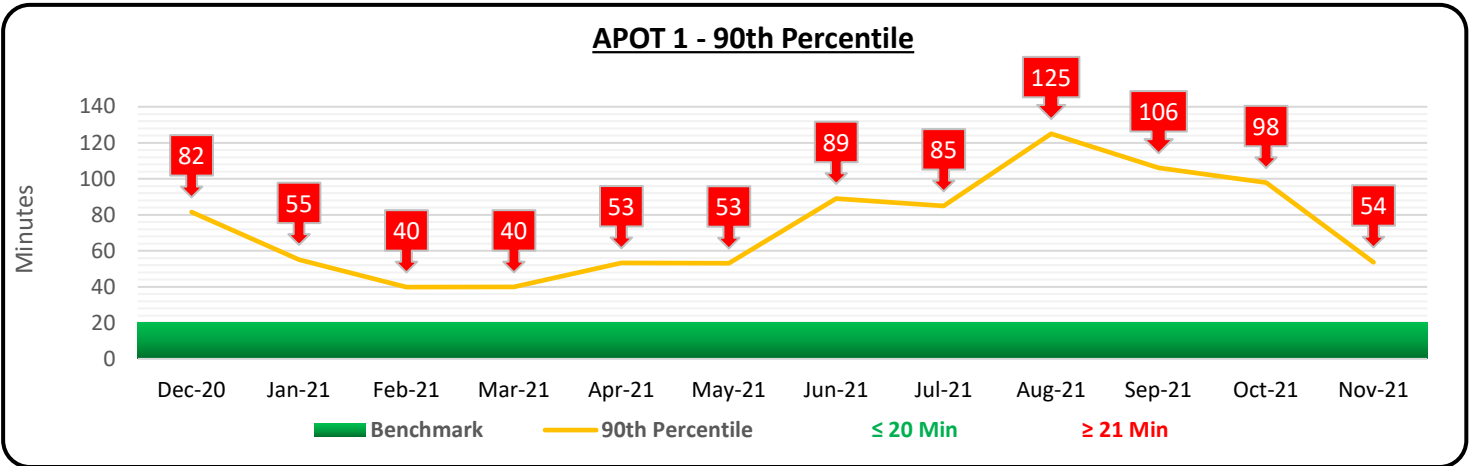
APOT 1 - 90th Percentile

APOT 2 - Per Month

APOT -3 / Excess Hours per Month

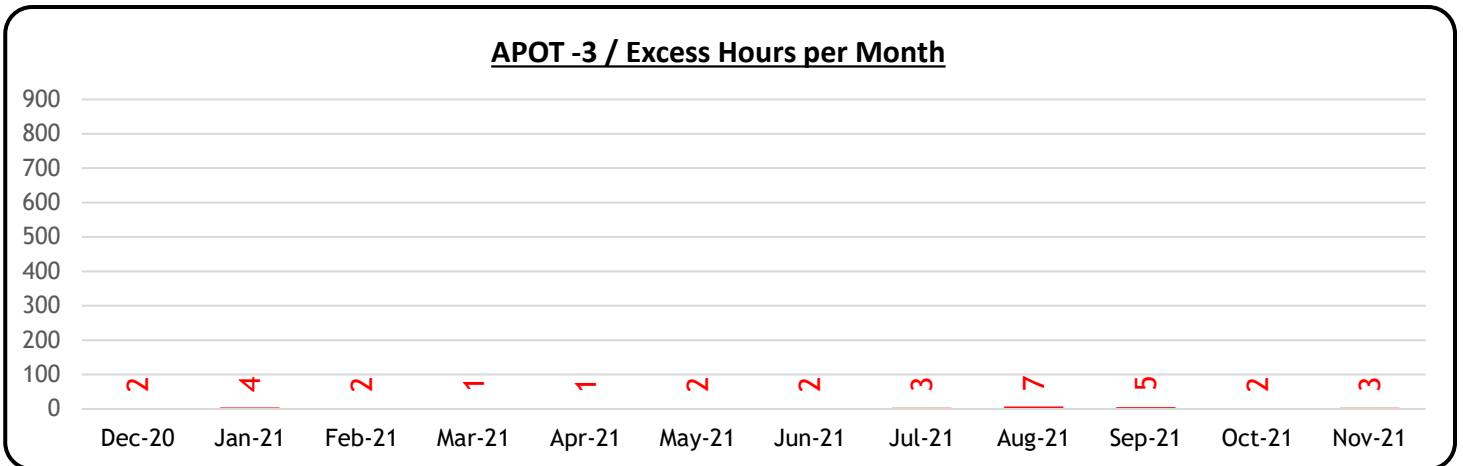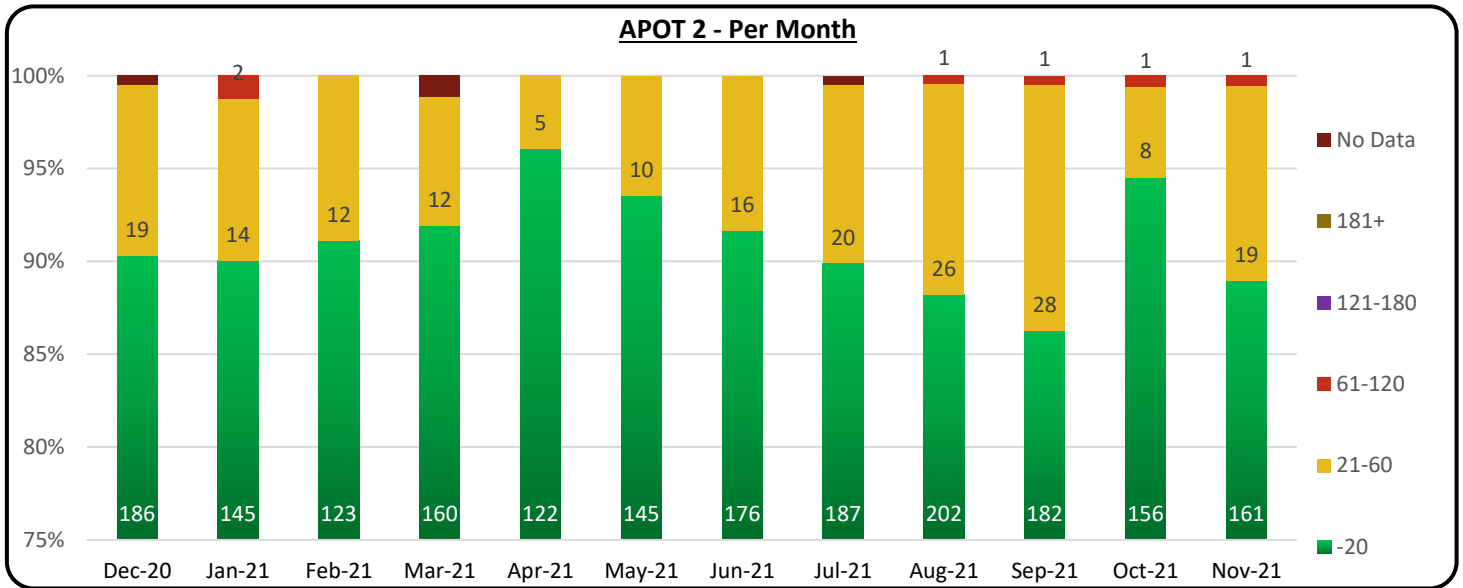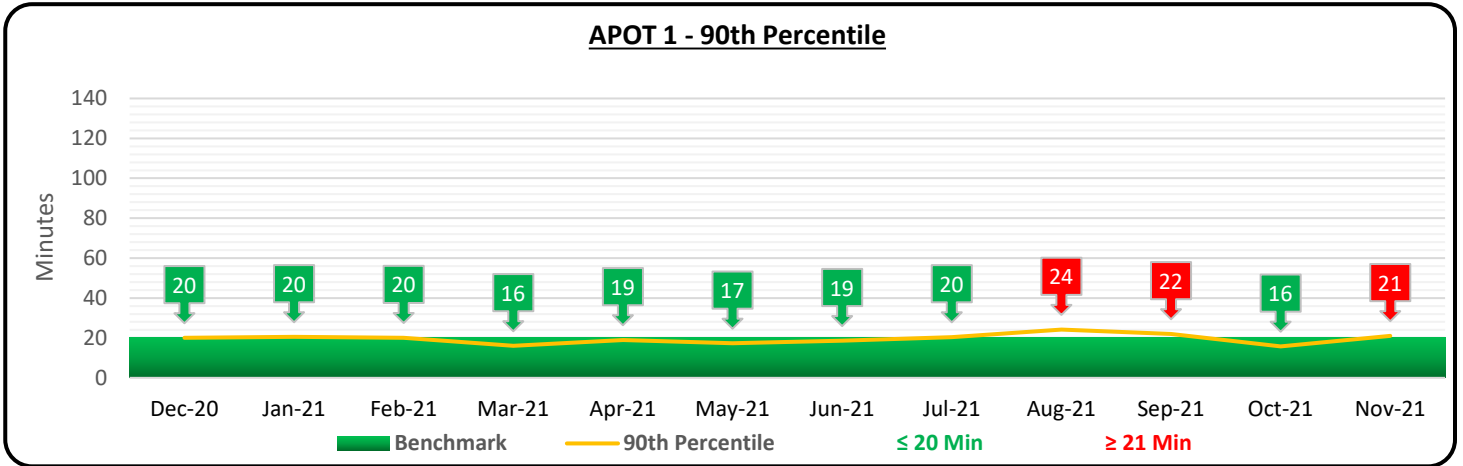Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA) Updated: 12.7.2021

APOT 1, 2 & 3 - ROLLING 12 MONTHS / VA

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. **APOT-2** is the percentage of patients whose care is transferred from EMS to hospital staff by designated time frames (see graph key for time ranges). A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*

APOT 1 - 90th Percentile

	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
90th Percentile	20	20	20	16	19	17	19	20	24	22	16	21

Legend: Benchmark · 90th Percentile · ≤ 20 Min · ≥ 21 Min

APOT 2 - Per Month

	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
No Data		2							1	1	1	1
21-60	19	14	12	12	5	10	16	20	26	28	8	19
-20	186	145	123	160	122	145	176	187	202	182	156	161

Legend: No Data · 181+ · 121-180 · 61-120 · 21-60 · -20

APOT -3 / Excess Hours per Month

	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
	2	4	2	1	1	2	2	3	7	5	2	3

APOT 1 Per Hospital & APOT 3 per Provider Agency and Hospital November - 2021

APOT-1 represents the time (in minutes) under which 90% of patients have their care transferred from EMS to hospital staff. A**POT-3** Represents the excess time (in hours) over 20 min aggregate of patient transferred from EMS to hospital per month. Illustrated is the System Total Excess hours per month. *Example: if APOT in min is 184min then 184-20(APOT benchmark) = 164min. Then 164/60 = 2.73hrs*
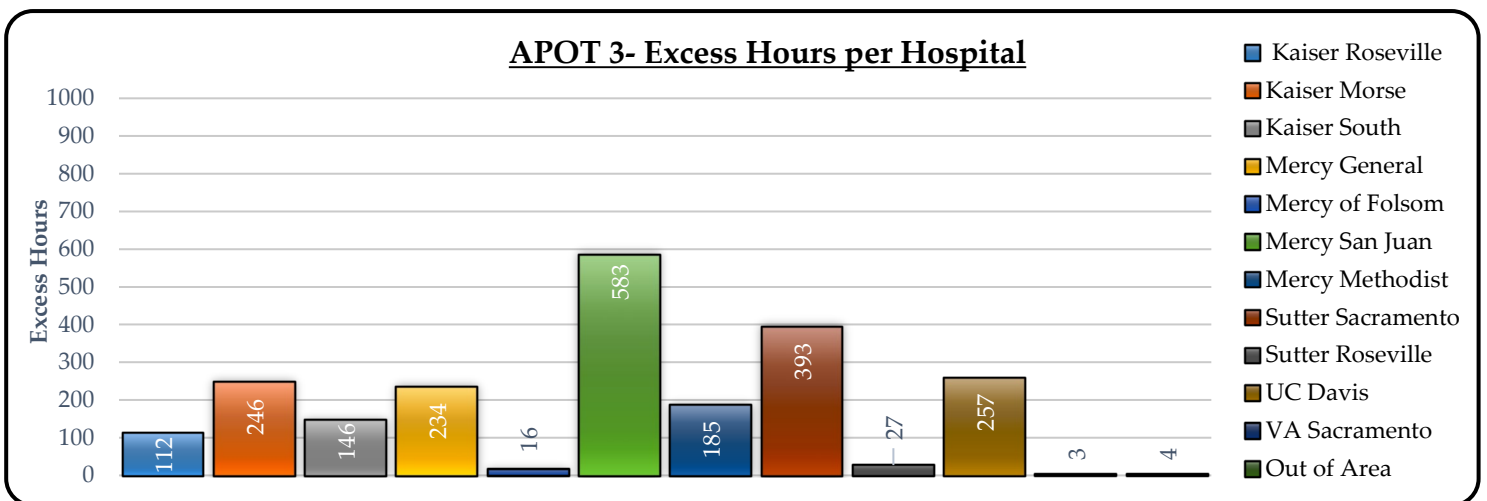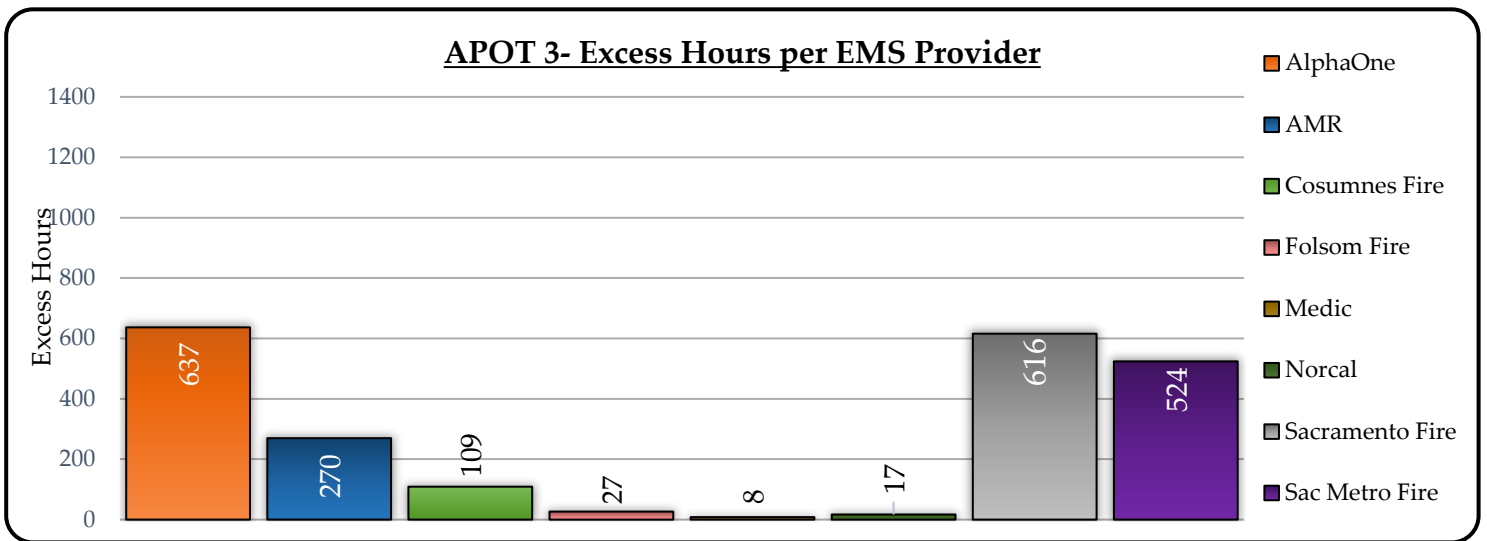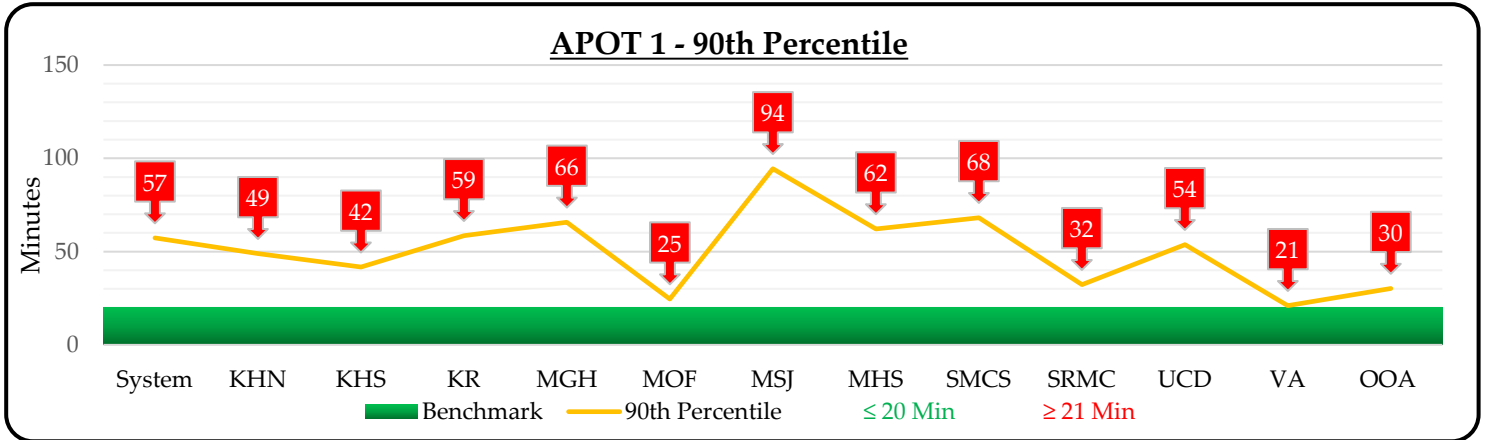

APOT 1 - 90th Percentile

Values: System 57, KHN 49, KHS 42, KR 59, MGH 66, MOF 25, MSJ 94, MHS 62, SMCS 68, SRMC 32, UCD 54, VA 21, OOA 30

Legend: Benchmark — 90th Percentile — ≤ 20 Min — ≥ 21 Min

APOT 3- Excess Hours per EMS Provider

Values: AlphaOne 637, AMR 270, Cosumnes Fire 109, Folsom Fire 27, Medic 8, Norcal 17, Sacramento Fire 616, Sac Metro Fire 524

APOT 3- Excess Hours per Hospital

Values: Kaiser Roseville 112, Kaiser Morse 246, Kaiser South 146, Mercy General 234, Mercy of Folsom 16, Mercy San Juan 583, Mercy Methodist 185, Sutter Sacramento 393, Sutter Roseville 27, UC Davis 257, VA Sacramento 3, Out of Area 4

Completed by: Sacramento County Emergency Medical Services Agency (SCEMSA)| 12.7.2021

APOT Table - November 2021

Hospital Names	Excess Hours	APOT in Minutes	Percentage within 20 min	EMS to ED Patient count	Average Cost of Excess Hours to EMS Strike Team Rate $210.74hr	Average Cost per 10 Patients
Kaiser Roseville	112	0:58:32	55.40%	574	$23,666.63	$412.31
Kaiser Morse	246	0:48:55	49.64%	1547	$51,875.97	$335.33
Kaiser South	146	0:41:40	76.16%	1405	$30,705.13	$218.54
Mercy General	234	1:05:45	38.40%	836	$49,375.78	$590.62
Mercy of Folsom	16	0:24:36	81.70%	552	$3,292.22	$59.64
Mercy San Juan	583	1:34:25	47.87%	1552	$122,833.18	$791.45
Mercy Methodist	185	1:05:10	30.60%	755	$39,049.95	$517.22
Sutter Sacramento	393	1:08:13	30.54%	1300	$82,781.20	$636.78
Sutter Roseville	27	0:32:18	62.81%	406	$5,749.62	$141.62
UC Davis	257	0:53:44	65.48%	1069	$54,244.83	$507.44
VA Sacramento	3	0:21:02	88.95%	181	$668.33	$36.92
Out of Area	4	0:30:15	84.38%	64	$759.05	$118.60
System	**2207**	**0:57:18**	**53.40%**	**10,241**	**$465,001.88**	**$454.06**

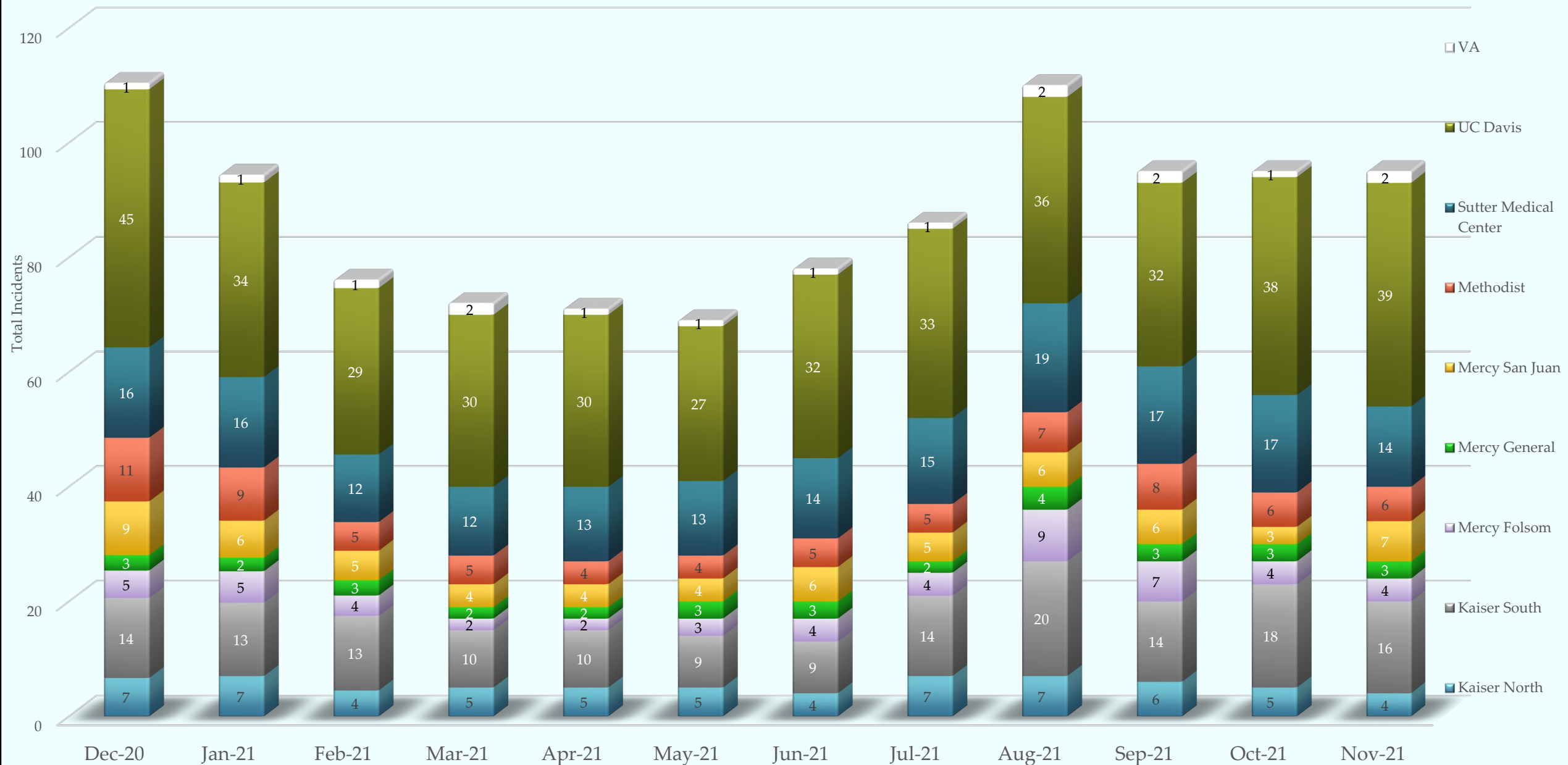Code 3 Ambulance Response times VS APOT Times
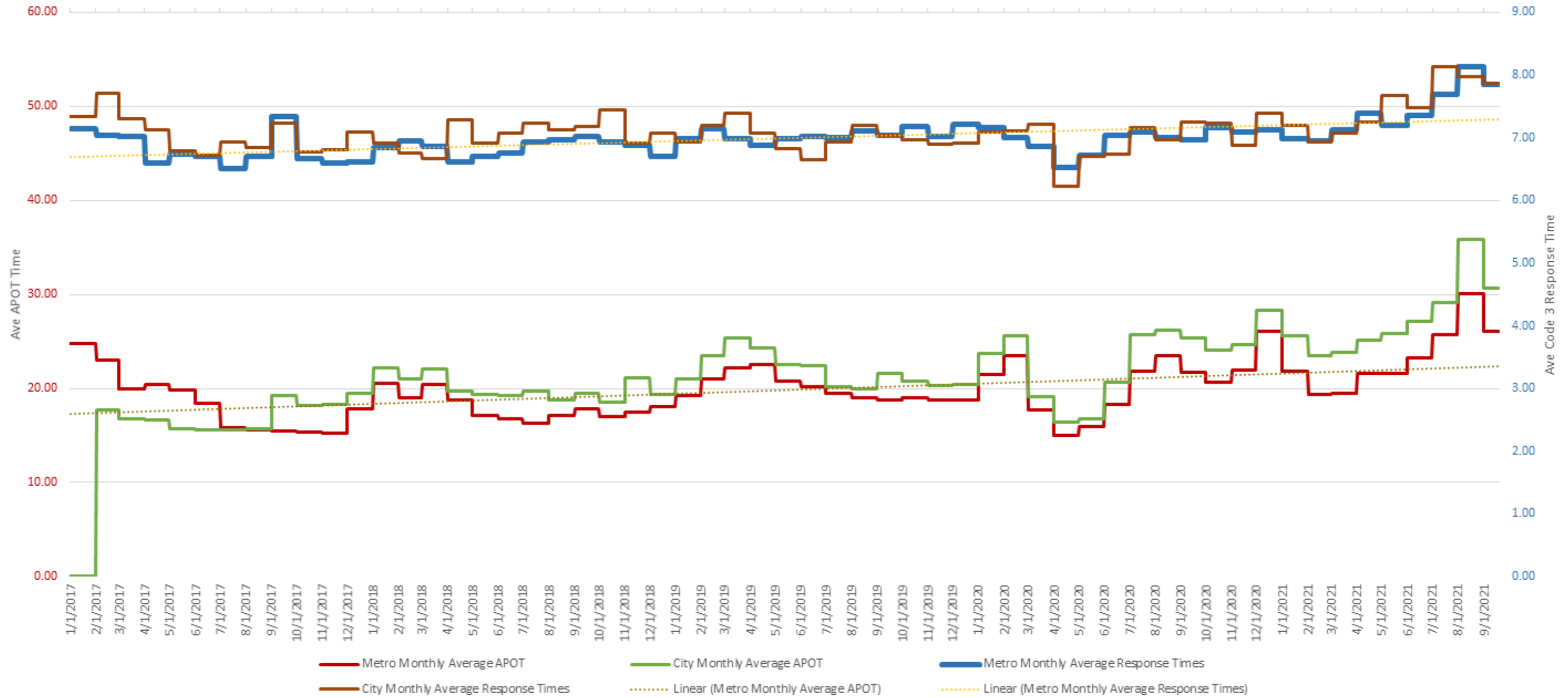
LEMSA	11/29 (1 Day) APOT Record Count	11/29 (1 Day) APOT 90th Percentile	11/23 - 11/29 (1 week) Record Count	11/23 - 11/29 (1 week) 90th Percentile	11/16 - 11/29 (2 weeks) Record Count	11/16 - 11/29 (2 weeks) 90th Percentile	Daily Average Record Count (2 week period)	Percent of Representation in CEMSIS (11/16 - 11/29)
Alameda	248	0:58:17	1789	0:43:30	3601	0:44:18	257.2	6.3%
Central California	313	0:58:41	2093	0:44:42	4145	0:44:25	296.1	7.3%
Coastal Valleys	107	0:20:19	748	0:18:08	1554	0:22:03	111.0	2.7%
Contra Costa	204	0:42:22	1488	0:40:17	2936	0:40:06	209.7	5.1%
El Dorado	7	0:07:49	167	0:12:15	364	0:11:26	26.0	0.6%
Imperial	20	0:34:36	155	0:28:56	312	0:29:58	22.3	0.5%
Kern	198	1:48:24	1254	1:05:38	2588	1:01:01	184.9	4.5%
Los Angeles								
Marin	43	0:13:16	256	0:13:26	480	0:14:04	34.3	0.8%
Merced	72	1:37:01	378	0:47:22	781	0:44:17	55.8	1.4%
Monterey	37	0:17:38	479	0:18:27	946	0:19:43	67.6	1.7%
Mountain Valley	183	0:43:38	1098	0:30:19	2247	0:33:00	160.5	3.9%
Napa	25	0:12:43	170	0:14:01	336	0:14:00	24.0	0.6%
NorCal	12	0:08:03	95	0:08:43	206	0:08:00	14.7	0.4%
North Coast	55	0:08:12	321	0:08:00	643	0:07:58	45.9	1.1%
Orange	0	-	1470	0:17:15	3804	0:19:04	271.7	6.7%
Riverside	0	-	1352	0:48:33	4562	0:58:37	325.9	8.0%
Sacramento	298	1:18:30	2274	0:48:32	4625	0:49:54	330.4	8.1%
San Benito	0	-	23	0:09:01	71	0:09:19	5.1	0.1%
San Bernardino	438	1:13:47	2907	0:57:42	5886	0:59:34	420.4	10.3%
San Diego	28	0:27:37	675	0:33:50	1446	0:35:30	103.3	2.5%
San Francisco	221	0:31:42	1484	0:30:14	2936	0:32:13	209.7	5.1%
San Joaquin	174	0:40:36	1224	0:37:09	2480	0:40:18	177.1	4.3%
San Luis Obispo	42	0:14:37	305	0:13:13	616	0:13:08	44.0	1.1%
San Mateo	12	0:17:18	87	0:21:13	168	0:21:09	12.0	0.3%
Santa Barbara	15	0:11:33	420	0:15:14	946	0:14:20	67.6	1.7%
Santa Clara	13	0:09:35	577	0:19:21	2354	0:24:07	168.1	4.1%
Santa Cruz	0	-	170	0:14:52	449	0:17:47	32.1	0.8%
Sierra-Sacramento Valley	293	0:36:42	1784	0:24:00	3650	0:23:51	260.7	6.4%
Solano								
Tuolumne	13	0:10:48	89	0:10:06	177	0:10:00	12.6	0.3%
Ventura	90	0:28:12	614	0:20:31	1181	0:20:55	84.4	2.1%
Yolo County	46	0:36:07	282	0:33:25	551	0:38:58	39.4	1.0%
Statewide CEMSIS Total	3207	0:55:19	26228	0:39:58	57041	0:41:11	4074.4	100.0%

SCEMSA Quarterly Reports

2020 - 3Quarter

SCENE Calls (911-Response) - 2021-3Quarter	Incident Count	Notes
Responses (911-Response)	**63,493**	
Average Response Time of First Unit on Scene (PSAP to Arrived Scene)	**0:11:37**	
Average Response Time of First Unit on Scene (unit notified to Arrived Scene)	**0:07:57**	
Treated and Transported	**33,782**	(of Scene Calls 911-Response).
Treated and Transferred Care & Assist	**6,055**	
Transported By Law Enforcement	**2**	
Coroners / Diseased	**714**	
Cancelled	**12,796**	No Patient found/ No Contact / Prior to Arrival
RST -4 (Percentage of Response with Lights and Sirens)	**61.64%**	
RST -5 (Percentage of Transports with Lights and Sirens)	**10.90%**	
IFT's	**3,675**	
Primary Impressions of Scene calls treated and transported	**Incident Count**	
Traumatic Injury (T14.90)	**4666**	
General Weakness (R53.1)	**3920**	
Abdominal Pain/Problems (GI/GU) (R10.84)	**2691**	
Behavioral/Psychiatric Crisis (F99)	**2195**	
Respiratory Distress/Other (J80)	**1842**	
Non-Traumatic Body Pain (G89.1)	**1692**	
ALOC - (Not Hypoglycemia or Seizure) (R41.82)	**1494**	
Chest Pain - Suspected Cardiac (I20.9)	**1286**	
Pain/Swelling - Extremity - non-traumatic (M79.60)	**1167**	
Nausea/Vomiting (R11.2)	**1033**	
Syncope/Near Syncope (R55)	**959**	
Seizure - Post (G40.909)	**934**	
Stroke / CVA / TIA (I63.9)	**839**	
Dizziness/Vertigo (R42)	**713**	
Respiratory Distress/Bronchospasm (J98.01)	**705**	
AMA/ Released / Refused / No Treatment of Scene Calls	**Incident Count**	
AMA's	**4910**	
Patient Refused Evaluation/Care (Without Transport)	**4109**	
Patient Treated, Released (per protocol)	**1041**	

EMS: Patients on Medical Hold per Local Hospital Emergency Department

Legend (top to bottom):
- VA
- UC Davis
- Sutter Medical Center
- Methodist
- Mercy San Juan
- Mercy General
- Mercy Folsom
- Kaiser South
- Kaiser North

Y-axis: Total Incidents

Hospital	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
VA	1	1	1	2	1	1	1	1	2	2	1	2
UC Davis	45	34	29	30	30	27	32	33	36	32	38	39
Sutter Medical Center	16	16	12	12	13	13	14	15	19	17	17	14
Methodist	11	9	5	5	4	4	5	5	7	8	6	6
Mercy San Juan	9	6	5	4	4	4	6	5	6	6	3	7
Mercy General	3	2	3	2	2	3	3	2	4	3	3	3
Mercy Folsom	5	5	4	2	2	3	4	4	9	7	4	4
Kaiser South	14	13	13	10	10	9	9	14	20	14	18	16
Kaiser North	7	7	4	5	5	5	4	7	7	6	5	4

EMS: Patients Awaiting Placement into Psychiatric Facility per Local Hospital Emergency Department
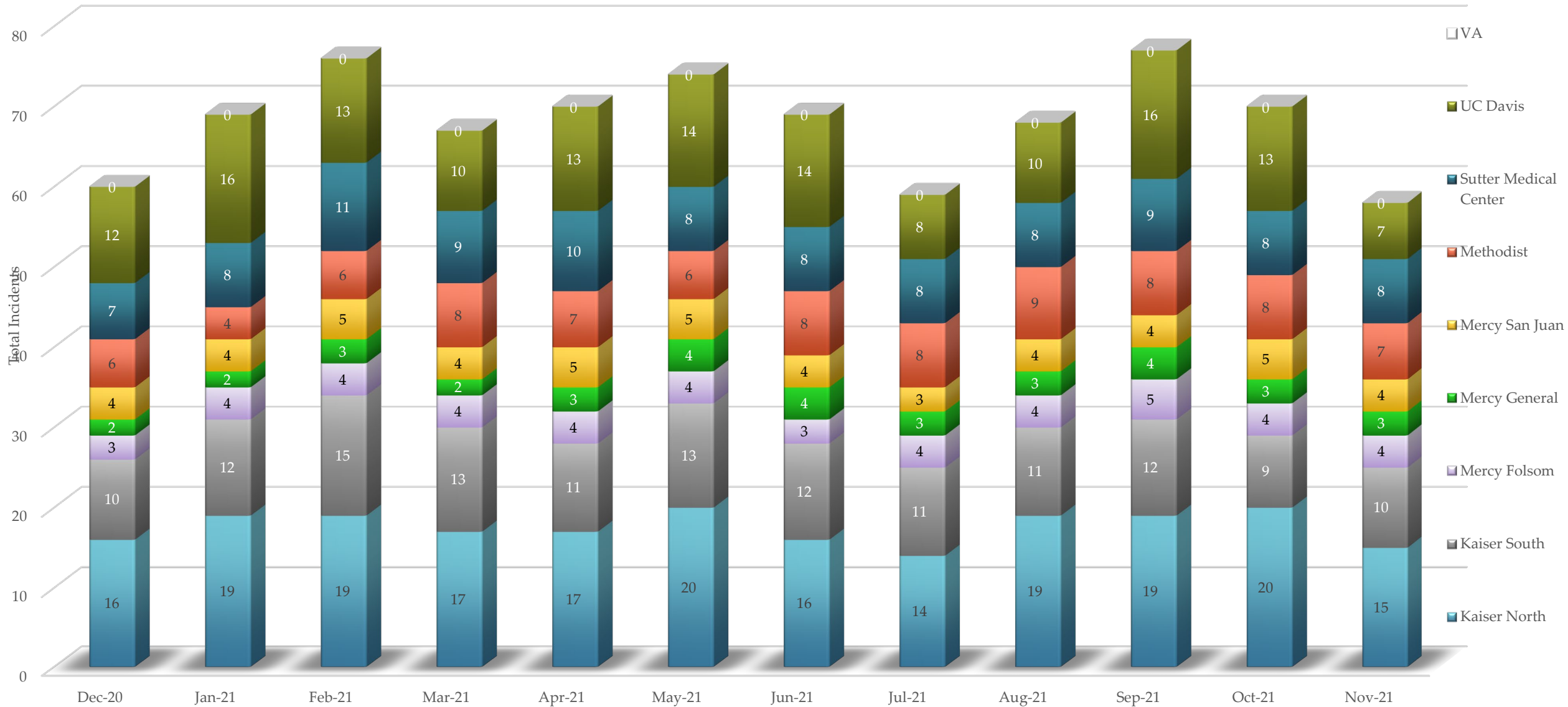
Decompression Hours per Month per Hospital

Hospital	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Kaiser North	1.77	2.19				1.99		5.91	17.54	6.29		8.1
Kaiser South Trauma Center		4.04		2.07		6.09	10.35	22.98	36.31	18.37	12.23	12.33
Mercy General						0.05			11.68			2.14
Mercy Folsom									19.53	40.47	17.43	11
Mercy San Juan Trauma Center	0.05								13.78	4.07	5.96	22.46
Methodist	2.98							4.05	2.33	4.09		0
Sutter Medical Center									2.07	12.71	4.26	4.19
UC Davis Medical Center Trauma Center	2.05						10.27	6.3	20.97	33.8	44.51	40.44
VA Medical Center										0.02		0
Total Hours	**6.85**	**6.23**	**0**	**2.07**	**0**	**8.13**	**20.62**	**39.24**	**124.21**	**119.82**	**84.39**	**100.66**

SCEMSA Imposed Diversion Hours per month

Hospital	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Kaiser North					
Kaiser South Trauma Center	2.89				
Mercy General	1.26				
Mercy Folsom					
Mercy San Juan Trauma Center				1.04	
Methodist					
Sutter Medical Center	1.13	3.04	3.24		
UC Davis Medical Center Trauma Center	4.61	1.02	2.06	0.98	
VA Medical Center					
Total	**9.89**	**4.06**	**5.3**	**2.02**	

DIVERSION HOURS PER MONTH 2019 VS 2020

Legend: 2019, 2020, 2021 (Jan-Current)

Month	2019	2020	2021 (Jan-Current)
Jan		3.91	
Feb	3.18	16.88	
Mar	25.86	4.18	2.07
Apr	1.97		
May			8.13
Jun	4.5	2.08	20.62
Jul	1.99	2.01	39.24
Aug		10.84	124.21
Sep		8.44	119.82
Oct	0.12	2.24	84.39
Nov		9.77	100.66
Dec	1.72	6.85	
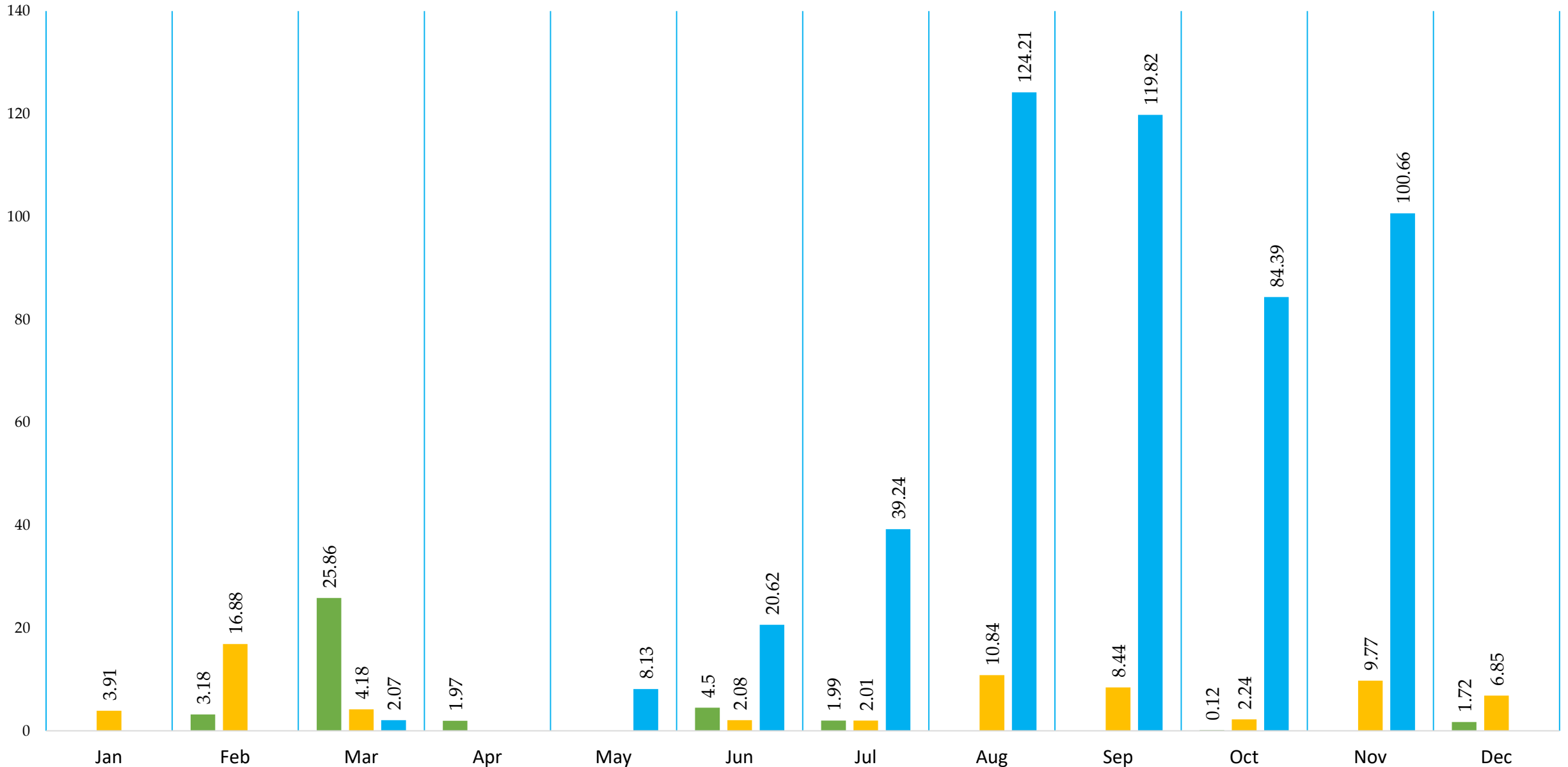
Advisory Hours per Month per Hospital

| Hospital	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Kaiser North						6.45					0.00	72.54
Kaiser South Trauma Center		11.19	2.89	72.03		8.00	2.56	17.95	1.42	99.25	49.11	48.98
Mercy General							0.73			0.78	8.50	0.00
Mercy Folsom		12.18								5.48	132.51	277.14
Mercy San Juan Trauma Center	3.43								0.92		12.08	0.00
Methodist							0.17				0.00	0.00
Sutter Medical Center										6.08	4.05	39.08
UC Davis Medical Center Trauma Center		17.37				1.51					0.00	0.00
VA Medical Center		29.76		7.41					1.79		1.59	0.00
Total	**3.43**	**70.5**	**2.89**	**79.44**	**0.00**	**15.96**	**3.46**	**19.74**	**2.34**	**111.59**	**207.84**	**437.74**

Advisory Status Represents: CT or STEMI Services unavailable / Power Outage / Main power outage, using auxiliary power

Internal Disaster Hours per Month per Hospital

| Hospital	Dec-20	Jan-21	Feb-21	Mar-21	Apr-20	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21
Kaiser North												
Kaiser South Trauma Center					0.38							
Mercy General						1.79			0.25			
Mercy Folsom									24.02			
Mercy San Juan Trauma Center		1.52										
Methodist										0.33		
Sutter Medical Center										1.99		
UC Davis Medical Center Trauma Center		5.73									0.38	
VA Medical Center		0.43				3.70						
Total	**0**	**7.68**	**0**	**0**	**0.38**	**5.49**	**0**	**0**	**24.27**	**2.32**	**0.38**	**0**

Interfacility Transports

Total IFT's Sending and Receiving Hospitals 2021-3Quarter - EMS Data
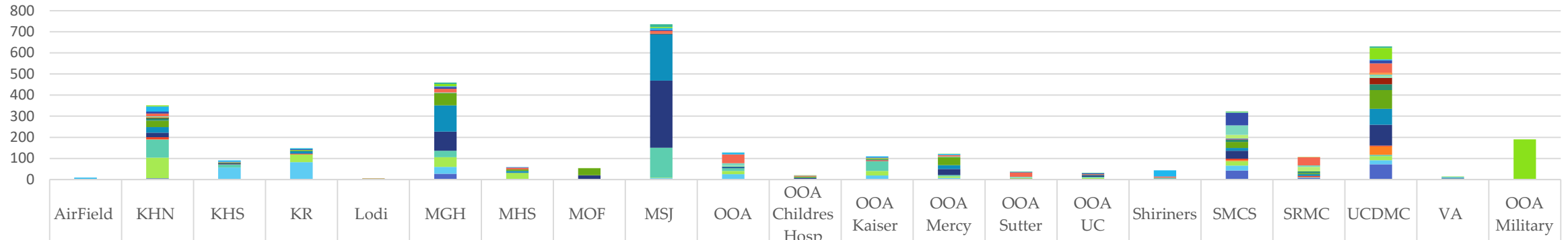
	AirField	KHN	KHS	KR	Lodi	MGH	MHS	MOF	MSJ	OOA	OOA Childres Hosp	OOA Kaiser	OOA Mercy	OOA Sutter	OOA UC	Shriners	SMCS	SRMC	UCDMC	VA	OOA Military
WMH Send				1		7			13	1							2		8		
VA Send		5				10			5		1		1	1	1		3	1	54	2	189
UCD Send	5	24	7	4		3	1		8	8	1	5	5	2	3	29	2		5	4	
SRMC Send	1	9	2	3		9	2		5			2		2	4	1	59		14		
SMCS Send		14	1		1	17	8		11	42	4	1	7	21	3	5		39	44	1	
Shriners Send																			7		
SDH Send		3				2						12	3	5		1	45	7	11		
SAF Send		2		2		1		1	1	2			2	2			18	21	4		
OOA Military																			1		
OOA Sutter Send																	4		1		
OOA Mercy Send		1							3								2		31		
OOA Kaiser Send		2																			
OOA Send		12	1			2										3	10	9	27	1	
MSJ Send	2	30	3	5	4	57	7	34			1	5	5	38	2	1	28	5	89		1
MOF Send		27		10		124	8		220	4	2	2	18	1	2		14	7	75	1	
MGH Send		21	5	2		91	2	20	318	4	5	1	29	2	6		37	2	99	2	
Marshall Send		11	1	3									4				6	5	4		
Lodi Send		1															5		40		
KR Send	1	85	14			30			142	13		47	6		5	1	1	2	6		
KHS Send		98		37		46	28		2	16	1	22	7		5	1	21		19		
KHN Send			57	79	1	33	2		3	25	1	19	8	1	3		23	1	20	2	
AirField Send		6		3		27	1		4							3	43	8	72	1	

IFT's With Primary Impression of Trauma 2021-3Quarter - EMS Data

	KHN	KHS	KR	MGH	MOF	MSJ	OOA	OOA Sutter	Shriners	SMCS	SRMC	UCDMC	OOA Military
VA Send												11	2
UCD Send	2			1			1		11			1	
SRMC Send									1			1	
SMCS Send				1								6	
Shriners Send												1	
SDH Send												1	
OOA Sutter Send									1				
OOA Mercy Send												1	
OOA Send	1								1			1	
MSJ Send	1		1	1	1							12	
MOF Send	1				11					1		13	
MGH Send				1		9		1		1		17	
Marshall Send		1											
LODI Send												2	
KR Send	2										1		
KHS Send										1		4	
KHN Send												11	
AirField Send												2	

IFT's With Primary Impression of STEMI 2021-3Quarter - EMS Data
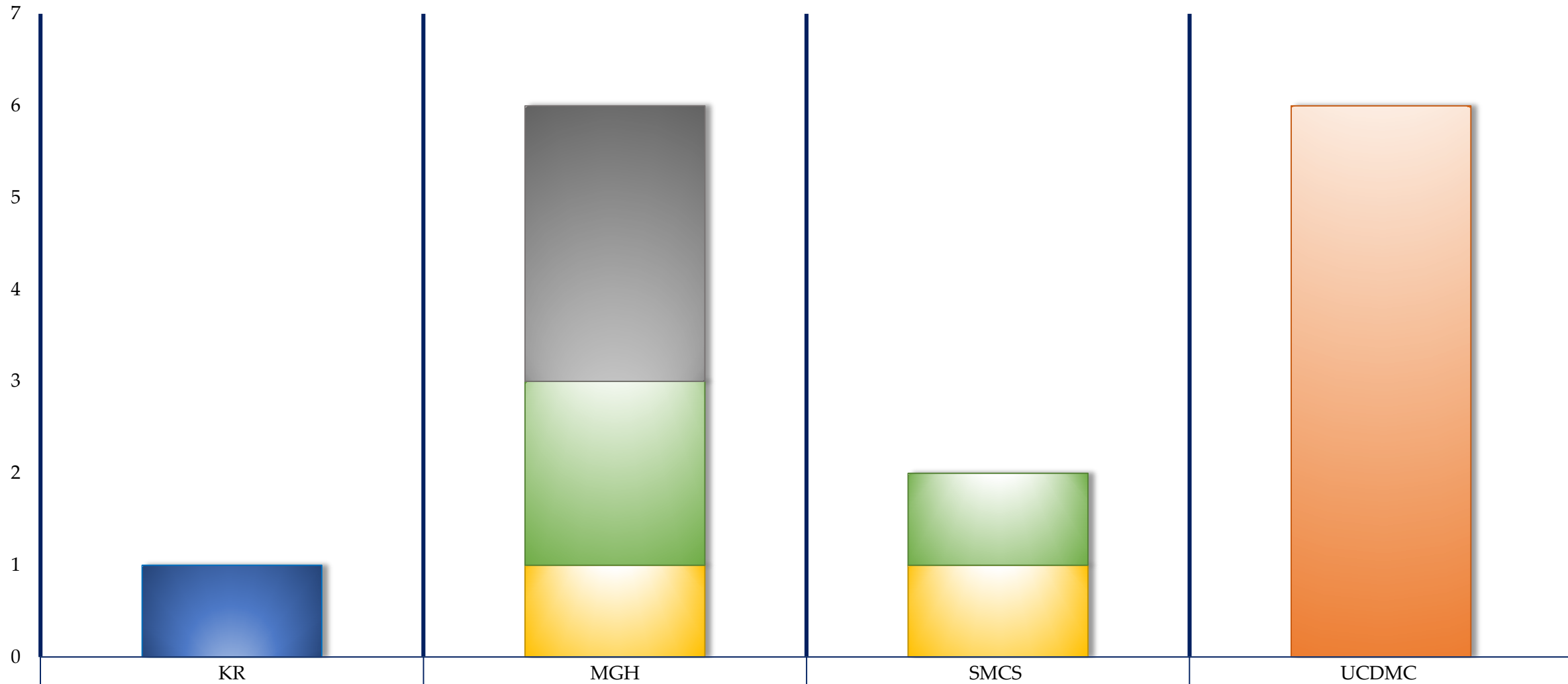
	KR	MGH	SMCS	UCDMC
VA Send				6
MOF Send		3		
MGH Send		2	1	
KHN Send	1			
AirField Send		1	1	

IFT's With Primary Impression of Stroke 2021-3Quarter - EMS Data
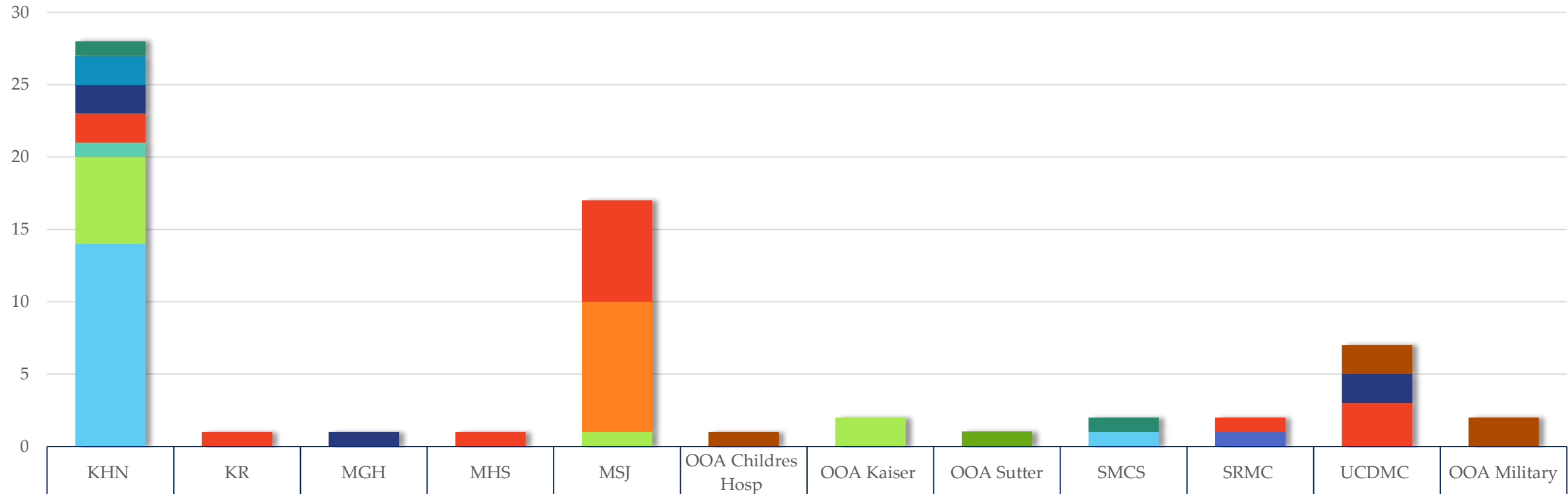
	KHN	KR	MGH	MHS	MSJ	OOA Childres Hosp	OOA Kaiser	OOA Sutter	SMCS	SRMC	UCDMC	OOA Military
VA Send						1					2	2
UCD Send	1								1			
SMCS Send								1				
OOA Send	2											
MSJ Send	2		1								2	
MOF Send	2	1		1	7					1	3	
MGH Send					9							
Marshall Send	1											
KR Send	6				1		2					
KHS Send	14								1			
AirField Send										1		

Total IFT's Patients <15 years old 2021-3Quarter - EMS Data
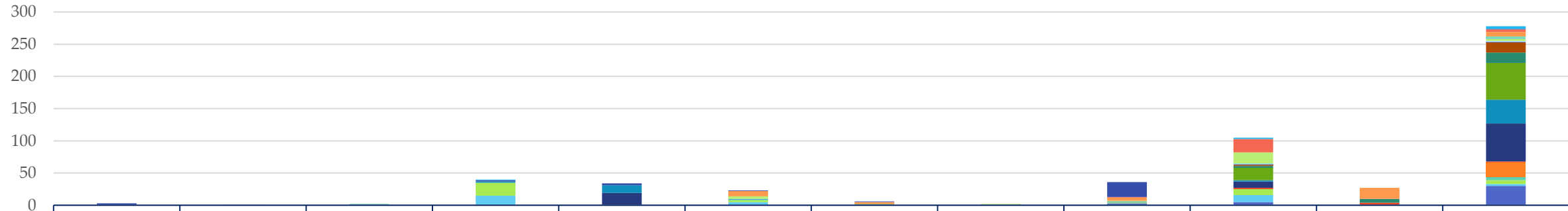
	AirField	KHN	KHS	KR	MSJ	OOA	OOA Childres Hosp	OOA Kaiser	Shriners	SMCS	SRMC	UCDMC
WMH Send				1						2		4
UCD Send	3			2	3	1	1		23			1
SRMC Send									1	21		4
SMCS Send						8	3		5		17	7
Shriners Send												4
SDH Send		1				4			1	17		3
SAF Send										2		1
OOA Military												1
OOA Sutter Send										1		
OOA Mercy Send										1		16
OOA Send									1	3	6	16
MSJ Send							1			19		57
MOF Send				2	12	1	1			2		37
MGH Send					19					10		59
Marshall Send										2	4	1
LODI Send												23
KR Send			2			1			1			5
KHS Send				20		3		1	1	9		6
KHN Send				15		5		1		11		3
AirField Send									3	5		30

Pediatrics

Count of 911 Response (Despite Outcome)per Patient Age <15 2021-3Quarter

Total Count: 1698

COUNT OF RESPONSES

PATIENT COUNT

Distribution of Scene Pediatric Patients to ED 2021-3Q EMS Data

Total Transports: 772

Facility	Count
KHN	80
KHS	102
KR	58
MGH	17
MHS	40
MOF	43
MSJ	75
OOA	6
SMCS	106
SRMC	32
UCD	212
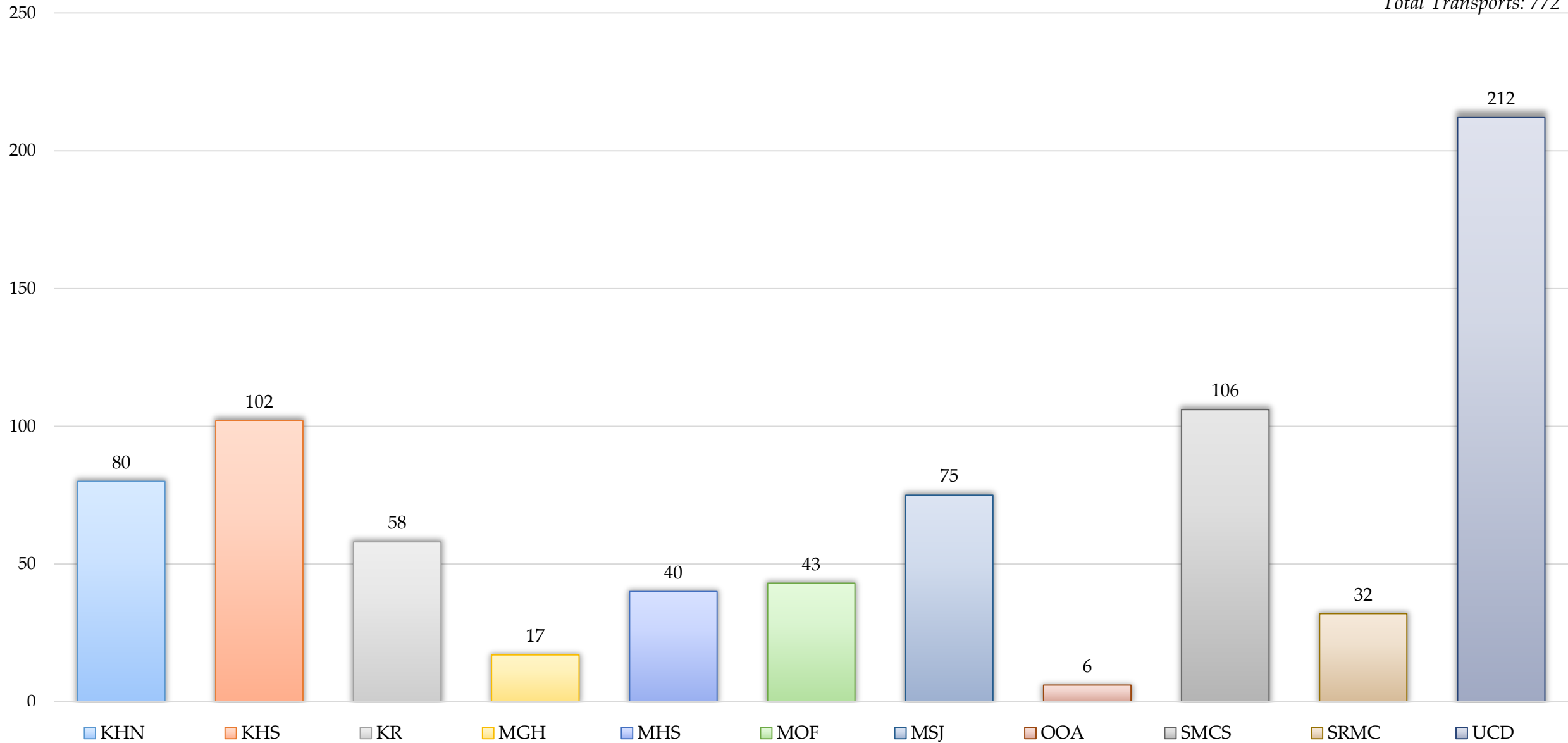
Numbers	Top 25 Primary Impressions Pediatric Patients to ED 2021-3Quarter (EMS Data)	Count
1	Traumatic Injury	176
2	Seizure - Post	118
3	General Weakness	49
4	Behavioral/Psychiatric Crisis	46
5	Respiratory Distress/Other	35
6	Syncope/Near Syncope	26
7	Allergic Reaction	25
8	Respiratory Distress/Bronchospasm	23
9	Abdominal Pain/Problems (GI/GU)	22
10	Overdose/Poisoning/Ingestion	20
11	Cold/Flu Symptom	19
12	Fever	19
13	Nausea/Vomiting	19
14	ALOC - (Not Hypoglycemia or Seizure)	17
15	Seizure - Active	17
16	No Medical Complaint	16
17	Newborn	13
18	ALTE (BRUE)	10
19	Non-Traumatic Body Pain	10
20	Cardiac Arrest -Non-traumatic	9
21	Anaphylaxis	8
22	Pain/Swelling - Extremity - non-traumatic	8
23	Airway Obstruction	7
24	Chest Pain - Not Cardiac	6
25	Headache - Non-traumatic	6
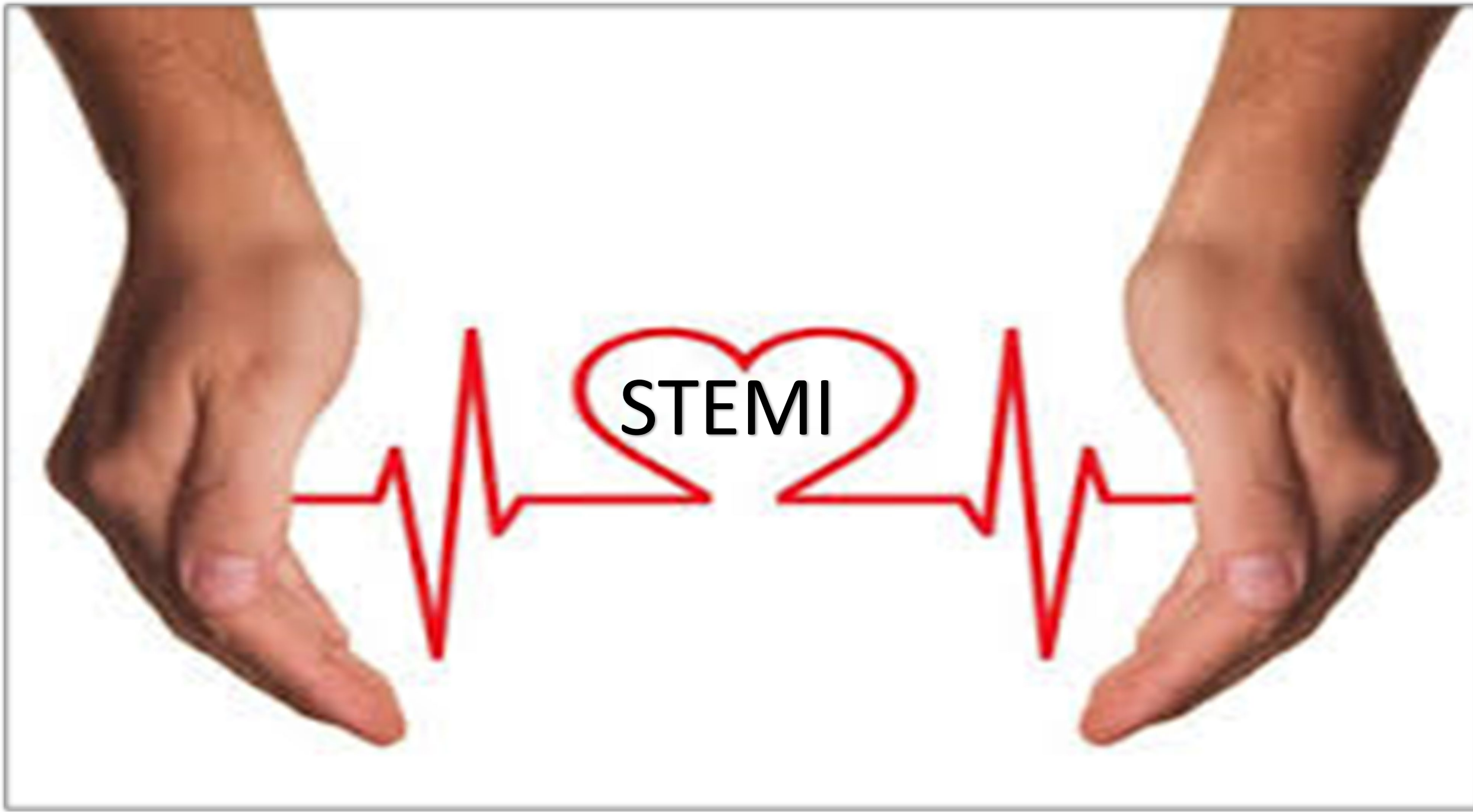
Distribution of Treated & Transported Patients with Primary Impressions of STEMI / Chest Pain Suspected Cardiac -2021-3Quarter		
Hospital	Chest Pain Suspected Cardiac	STEMI
Kaiser Permanente, Roseville Medical Center	88	7
Kaiser Permanente, Sacramento Medical Center	143	
Kaiser Permanente, South Sacramento Medical Center	170	34
Mercy General Hospital	147	23
Mercy Hospital of Folsom	70	
Mercy San Juan Medical Center	178	41
Methodist Hospital of Sacramento	72	
Sacramento VA Medical Center		
Sutter Medical Center - Sacramento	198	15
Sutter Roseville Medical Center	54	6
UC Davis Medical Center	137	12
Veterans Hospital	24	
Lodi Memorial	3	
Woodland Memorial	2	
Grand Total	**1286**	**138**

STEMI Core Measures 2021-3Quarter

Core Measure	Definition	Patient Count	Percentage	Year	Quarter
ACS-01	Number of patients 35 and older treated and transported to ED with a Primary (*or*) Secondary Impression of **STEMI** or **Chest Pain Suspected Cardiac** that received **ASA**	1437	78.98%	2021	3
ACS-04	Number of patients with Primary (*or*) Secondary Impression of **STEMI** or ECG of STEMI - transported to a PCI capable hospital that had a STEMI alert	161	90.06%	2021	3

Core Measure	Definition	Patient Count	Time	Year	Quarter
ACS-03	90th Percentile in **minutes** of Unit Arrived on Scene to Patient Arrived at Destination (Primary Impression of STEMI)	141	00:31:35	2021	3
ACS-06	90th Percentile in **minutes** of Unit Arrived on Scene to First ECG (Primary Impression of STEMI)	141	00:14:34	2021	3

Data Generated: 11.04.2021

Cares Utstein Report 2021-3Q Sacramento vs National Presumed Cardiac Cares Cases

Cardiac Etiology Survival Rates - Sacramento 2021-3Q

Overall:	3.3% (269)
Bystander Wit'd:	4.3% (117)
Unwitnessed:	1.5% (130)
Utstein[1]:	6.5% (31)
Utstein Bystander[2]:	8.3% (24)

Cardiac Etiology Survival Rates - National 2021-3Q

Overall:	6.6% (32881)
Bystander Wit'd:	9.8% (12214)
Unwitnessed:	3.0% (16532)
Utstein[1]:	21.9% (3198)
Utstein Bystander[2]:	24.1% (1902)

Bystander Intervention Rates [3]

CPR:	55.9% (227)
Public AED Use:	4.3% (23)

Bystander Intervention Rates [3]

CPR:	40.4% (24799)
Public AED Use:	9.7% (4196)

Only data from the previous calendar year is fully audited. Data from the current calendar year is dynamic.
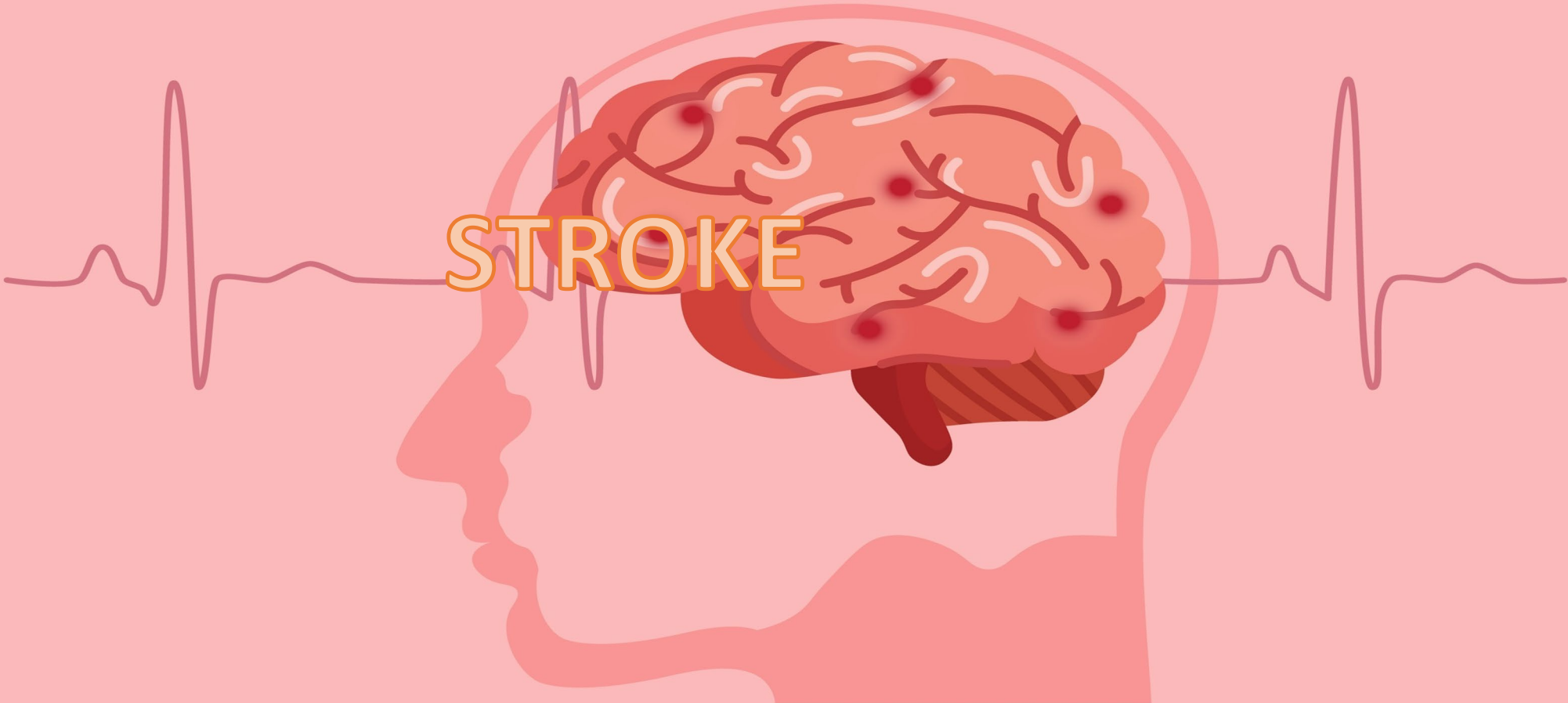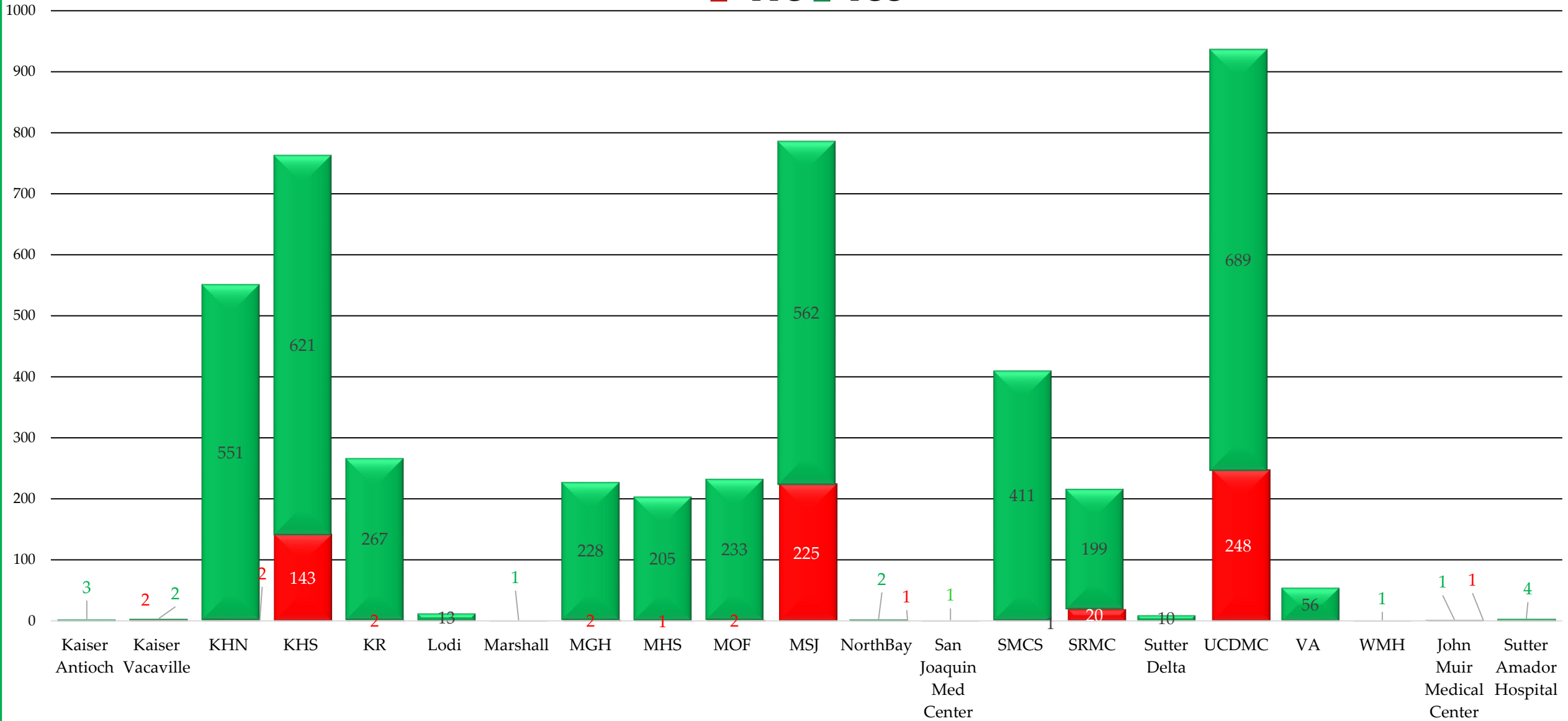
STROKE

Core Measure	Definition	Patient Count	Percentage	Year	Quarter
STR-01	Prehospital Screening for Stroke Patients	971	96.70%	2021	3
STR-02	Glucose Testing for Suspected Stroke Patients	971	94.95%	2021	3
STR-04	Advanced Hospital Notification for Stroke Patients with positive Stroke Scale	551	95.10%	2021	3

Data Generated: 11.04.2021

Hospital Name	Stroke Primary Impression for Treated and Transported Patients - 2021- 3rd Quarter
Kaiser Permanente, Antioch (20214)	1
Kaiser Permanente, Roseville Medical Center (20196)	35
Kaiser Permanente, Sacramento Medical Center (20197)	126
Kaiser Permanente, South Sacramento Medical Center (20205)	167
Lodi	1
Mercy General Hospital (20280)	48
Mercy Hospital of Folsom (20282)	41
Mercy San Juan Medical Center (20286)	180
Methodist Hospital of Sacramento (20288)	73
Sacramento VA Medical Center (20549)	1
Sutter Medical Center - Sacramento (20475)	75
Sutter Roseville Medical Center (20481)	24
UC Davis Medical Center (20508)	66
Veterans Hospital	1
Total	**839**

Transported Patients with a Primary Impression of Trauma
2021-3Quarter (EMS Data)

■ +TTC   ■ -TCC

Facility	+TTC	-TCC
Kaiser Antioch		3
Kaiser Vacaville	2	2
KHN		551
KHS	143	621
KR	2	267
Lodi		13
Marshall		1
MGH	2	228
MHS	1	205
MOF	2	233
MSJ	225	562
NorthBay	1	2
San Joaquin Med Center		1
SMCS		411
SRMC	20	199
Sutter Delta	1	10
UCDMC	248	689
VA		56
WMH		1
John Muir Medical Center	1	1
Sutter Amador Hospital		4

Originating County 2021 2nd-Quarter Hospital Data	Alameda	Amador	Butte	Calaveras	Churchill	Colusa	Contra Costa	Del Norte	Douglas	El Dorado	Fresno	Glenn	Humboldt	Kern	Lake	Mendocino	Merced	Modoc	Napa	Nevada	Placer	Plumas	Sacramento	San Francisco	San Joaquin	San Luis Obispo	Santa Barbara	Shasta	Siskiyou	Solano	Sonoma	Stanislaus	Sutter	Tehama	Trinity	Tuolumne	Yolo	Yuba	Not Recorded	Grand Total
KHS		6																			1		171		1												2		24	**205**
MJS										3										6	6		347	1													4	1	55	**423**
SRMC																							201																	**201**
UCD	1	16	24	12	1	5	3	1	1	57	1	2	8	2	7	12	3	1	3	8	19	2	456		56	2	1	17	2	17	6	23	14	3	3	3	91	51	57	**991**
Grand Total	**1**	**22**	**24**	**12**	**1**	**5**	**3**	**1**	**1**	**60**	**1**	**2**	**8**	**2**	**7**	**12**	**3**	**1**	**3**	**14**	**26**	**2**	**1175**	**1**	**57**	**2**	**1**	**17**	**2**	**17**	**6**	**23**	**14**	**3**	**3**	**3**	**97**	**52**	**136**	**1820**

Scene Time for patients with +TTC (2021-3Q)

90th Percentile - 00:18:38

Average- 00:10:44

13.80% of Trauma had +TTC

98.62% of patients with +TTC were taken to a Trauma Center

Dashboards

Cardiopulmonary Arrest Dashboard 2021-3Q

Cardiopulmonary Arrest (CPA)	System Total
Total CPA per Provider	427
Total Sustained ROSC	112
% Sustained ROSC	26.23%
Number of VT/VF rhythm with ROSC who are transported	5
Number of VT/VF rhythm with ROSC who are transported to a STEMI center	4
% of VT/VF rhythm with ROSC who are transported to a STEMI center	80.00%
Number of patients with PEA / Asystole without ROSC	104
Number of patients with PEA / Asystole without ROSC who are transported	31
90% Scene Time for patients with PEA / Asystole without ROSC	*0:24:49*
Disposition for patients with PEA / Asystole without ROSC (Pt Disposition)	
Assist *(Should be Treated Transported)*	4
Patient Dead at Scene-No Resuscitation Attempted (Without Transport)	13
Patient Dead at Scene-Resuscitation Attempted (Without Transport)	58
Patient Treated, Transferred Care	1
Patient Treated, Transported	26
	2
% of PEA/Asystole without ROCS, Transported to hospital	29.81%
Patients with a Stroke pre-arrival notification	743
% of Stroke pre-arrival notification	88.56%

STEMI & Stroke Dashboards 2021-3Q

STEMI	System Total
Total transported patients with Primary impression of STEMI	139
Total Number of Patients that received ASA or Pertinent Negative Present	125
90% Scene Time	*0:31:41*
Patients with a prearrival notification	139
% pre-arrival notification	100.00%
90th % Time to First ECG (from arrival at scene to Device)	*0:14:33*
90th % ECG to Hospital Notification	*0:18:20*

Stroke	System Total
Total transported patients with Primary impression of Stroke	**839**
Number of patients with documented Stroke Screen	825
% of patients with documented Stroke Screen	98.33%
Documented Blood Glucose Procedure	507
Documented Glucose	816
% of documented Glucose	97.26%

Trauma/ Hypoglycemia & Pediatric Dashboards 2021-3Quarter

Trauma	System Total
Transported patients with Primary Impression of Trauma	4710
90th % SCENE Time for Primary Impression of Trauma	*0:18:38*
Patients with Primary Impression of Trauma meeting +TTC	650
% Patients with Primary Impression of Trauma meeting +TTC	13.80%
Transported Patients with PI of Trauma & +TTC Taken to a Trauma Center	641
% of Transported Patients with PI of Trauma & +TTC Taken to a Trauma Center	98.62%
Transports with +TTC and **NO Primary Impression of Trauma**	**34**
Transports with +TTC and **NO Primary Impression of Trauma** taken to a Trauma Center	**30**
% of +TTC taken to a Trauma Center **NO PI of Trauma**	**88.24%**

HYP-01 Documentation of Treatment for BGS less than 60	System Total
Total Incidents	586
Documented glucose Treatment under eMedication.03 or Pertinent Negative	386
Percentage of Treated Patients	65.87%
Documented Pertinent Negative for ASA	5

Pediatric equal to or less than 14 911- Response Scene / Hospital ED / Treated & Transported	System Total
Transported Pediatric Patients (= <14)	793
Pediatric Patients with Respiratory Primary Impression (J80 & J98.01)	62
Pediatric Patients with Respiratory Primary Impression that documented a Respiratory Assessment	61
% Pediatric Patients with Respiratory Primary Impression that documented a Respiratory assessment	98.39%

Responses & Transport 2021-3Quarter

Number	Total Transports 2021-3Quarter 911 Response (SCENE)/ IFT's	Associated Element	System Total
4	Total Transports *(eDisposition.12 = Pt Treated, transported or CCT Transport)*	eDisposition.12	52810
5	IFT's (Hospital Address to Hospital Address)	eScene.15 + eDisposition.3	3675
6	IFT's not documented as IFT's		386
7	Percentage of IFT's properly classified as IFT's	eResponse.05	89.50%
8	**Scene Calls** **eResponse.05 =911 Response (Scene) & eDisposition.21= Hospital - Emergency Department**	eResponse.05 & eDisposition.21	System Total
9	Total Responses (Scene Calls)	eResponse.05	63493
10	Total Transports (Scene Calls)		33782
11	Percentage of **ALL Transports** that are Scene calls	Row 10/Row4	63.97%
12	Percentage of 911 Response that resulted in transport (Scene calls)	Row 10/Row9	53.21%
13	Number of lights and sirens response	eResponse.24	39138
14	Number of lights and sirens response that were transported		21001
15	Percentage of responses with lights and sirens that were transported	Row 14/Row13	53.66%
16	Number of responses with lights and sirens that transported with lights and sirens	eResponse.24 & eDisposition.18	3341
17	Percentage of responses with lights and sirens that transported with lights and sirens	Row 16/Row14	15.91%
18	**AMAs / Refused Evaluation/Care without transport /Pt Treated, Released per Protocol / Assess and Refer**		System Total
19	AMA		4910
20	Refused Evaluation/Care Without Transport		4109
21	Pt Treated, Release per Protocol	eDisposition.12	1041
22	Assess and Refer		2
23	Combined AMAs / Refused Evaluation or Care without transport /Pt Treated, Released per Protocol / Assess and Refer		10062
24	Percentage of 911 Response (Scene) Responses that resulted in AMA	Row 23/Row9	15.85%

Responses & Transports 2021-3Q

| Number	Response Time of first unit on scene eResponse.05 = 911 Response (SCENE)	Associated Element	System Total
26	**Count of First Unit on Scene Responses**	**eScene.01**	35752
27	First on Scene Response Time in Min: 90% **(PSAP to unit arrived at scene)**	eResponse.24	0:17:24
28	First on Scene Response Time in Min: 90% **(Unit notified to unit arrived at scene)**		0:13:41
29	Count of First on Scene with eResponse.24= **"No lights or Sirens"**	eResponse.24	12182
30	No Lights no Sirens: 90% Response Time in Min **(PSAP to arrived at scene)**		0:26:43
31	No Lights no Sirens: 90% Response Time in Min **(Unit notified to arrived at scene)**		0:19:25
32	Count of First on Scene with eResponse.18= **"Lights and/or Sirens"**	eResponse.18	22273
33	Lights and Sirens: 90% Response Time in Min **(PSAP to arrive at scene)**		0:13:16
34	Lights and Sirens: 90% Response Time in Min **(Unit notified to arrive at scene)**		0:10:47
35	Count of Responses (Scene Calls) **Documented** eResponse.24 **all Responses**	Row 35/ Row 9	60930
36	% of Scene Call Responses that **Documented** eResponse.24	%	95.96%
37	Count of **Transported** Scene call Patients Where eDisposition.18 is **DOCUMENTED** (All Scene Calls transported to ED)	eDisposition.18	32338
38	% of **Transported** Scene call Patients that **DOCUMENTED** eDisposition.18	Row 37/Row 10	95.73%

Count of Wall times over a time frame

Over h:mm	2020 Count	2021 till now Count
0:20	15,582	17,113
0:40	4,859	6,510
1:00	2,289	3,236
1:20	1,250	1,857
1:40	728	1,141
2:00	419	722
2:20	242	454
2:40	144	302
3:00	101	211
3:20	68	148
3:40	54	103
4:00	39	62
4:20	26	42
4:40	19	31
5:00	15	24

Calendar Year Hour	2021 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	SFD Hourly Average
0	0:18:29	0:22:28	0:19:15	0:23:07	0:24:24	0:22:34	0:24:49	0:33:05	0:24:52	0:23:00	0:23:50
1	0:19:53	0:21:57	0:21:32	0:23:40	0:20:41	0:22:34	0:24:04	0:32:32	0:20:15	0:29:12	0:23:45
2	0:18:59	0:18:29	0:18:59	0:21:51	0:18:52	0:22:11	0:21:21	0:26:40	0:20:20	0:24:01	0:21:20
3	0:15:38	0:15:38	0:16:33	0:21:33	0:20:11	0:19:21	0:20:03	0:28:06	0:24:17	0:22:16	0:20:29
4	0:15:51	0:13:29	0:15:13	0:16:26	0:20:19	0:21:42	0:23:58	0:22:50	0:22:03	0:18:01	0:19:18
5	0:16:49	0:15:43	0:14:49	0:17:29	0:14:36	0:20:54	0:21:09	0:23:41	0:20:55	0:18:15	0:18:30
6	0:18:31	0:18:36	0:16:00	0:18:51	0:17:29	0:21:01	0:19:43	0:26:57	0:20:53	0:21:00	0:20:07
7	0:17:10	0:16:55	0:14:56	0:17:08	0:17:44	0:21:01	0:18:23	0:20:40	0:19:50	0:19:23	0:18:24
8	0:21:12	0:18:36	0:17:02	0:17:40	0:16:26	0:19:14	0:20:07	0:22:22	0:20:00	0:20:07	0:19:24
9	0:21:30	0:18:39	0:20:26	0:18:18	0:21:09	0:19:43	0:23:43	0:29:09	0:24:48	0:24:19	0:22:20
10	0:22:01	0:21:17	0:22:06	0:19:32	0:24:01	0:26:29	0:26:46	0:31:07	0:28:17	0:22:57	0:24:28
11	0:27:16	0:22:19	0:23:31	0:22:51	0:27:30	0:24:01	0:28:26	0:36:53	0:32:12	0:28:39	0:27:40
12	0:26:06	0:23:55	0:23:33	0:25:26	0:24:21	0:28:02	0:33:00	0:42:32	0:34:39	0:31:16	0:29:22
13	0:31:07	0:27:39	0:27:18	0:29:52	0:24:32	0:28:59	0:29:54	0:45:03	0:37:30	0:34:59	0:31:57
14	0:31:26	0:27:31	0:30:51	0:29:46	0:32:04	0:36:27	0:32:59	0:38:52	0:34:24	0:31:47	0:32:41
15	0:32:00	0:28:54	0:26:49	0:33:53	0:32:44	0:32:36	0:32:30	0:47:47	0:33:20	0:29:53	0:33:33
16	0:31:18	0:32:10	0:29:14	0:29:00	0:31:07	0:32:13	0:32:38	0:37:50	0:37:26	0:31:02	0:32:24
17	0:30:22	0:28:08	0:27:37	0:29:05	0:35:35	0:30:30	0:39:29	0:43:58	0:35:28	0:39:34	0:34:25
18	0:33:06	0:29:51	0:26:39	0:31:58	0:30:56	0:32:00	0:33:35	0:42:14	0:36:56	0:38:53	0:33:41
19	0:26:38	0:24:15	0:24:10	0:27:19	0:28:02	0:28:41	0:33:33	0:46:25	0:35:17	0:38:08	0:31:42
20	0:30:35	0:21:26	0:25:44	0:23:17	0:26:59	0:28:40	0:33:08	0:33:32	0:37:42	0:38:28	0:30:06
21	0:25:37	0:24:08	0:29:40	0:26:09	0:26:40	0:30:42	0:30:57	0:35:19	0:36:51	0:28:54	0:29:35
22	0:22:11	0:22:42	0:27:37	0:26:35	0:24:49	0:28:50	0:30:04	0:32:18	0:29:45	0:28:46	0:27:30
23	0:24:50	0:20:44	0:23:27	0:25:35	0:25:33	0:25:19	0:30:54	0:33:34	0:28:18	0:27:45	0:26:53
SFD Daily Average	0:25:34	0:23:29	0:23:52	0:25:08	0:25:51	0:27:07	0:29:06	0:35:51	0:30:42	0:29:19	0:27:46

Data provided by Stryker

Hour based on time SFD ambulance arrived at destination.

SFD Average Wall Times by Calendar Year
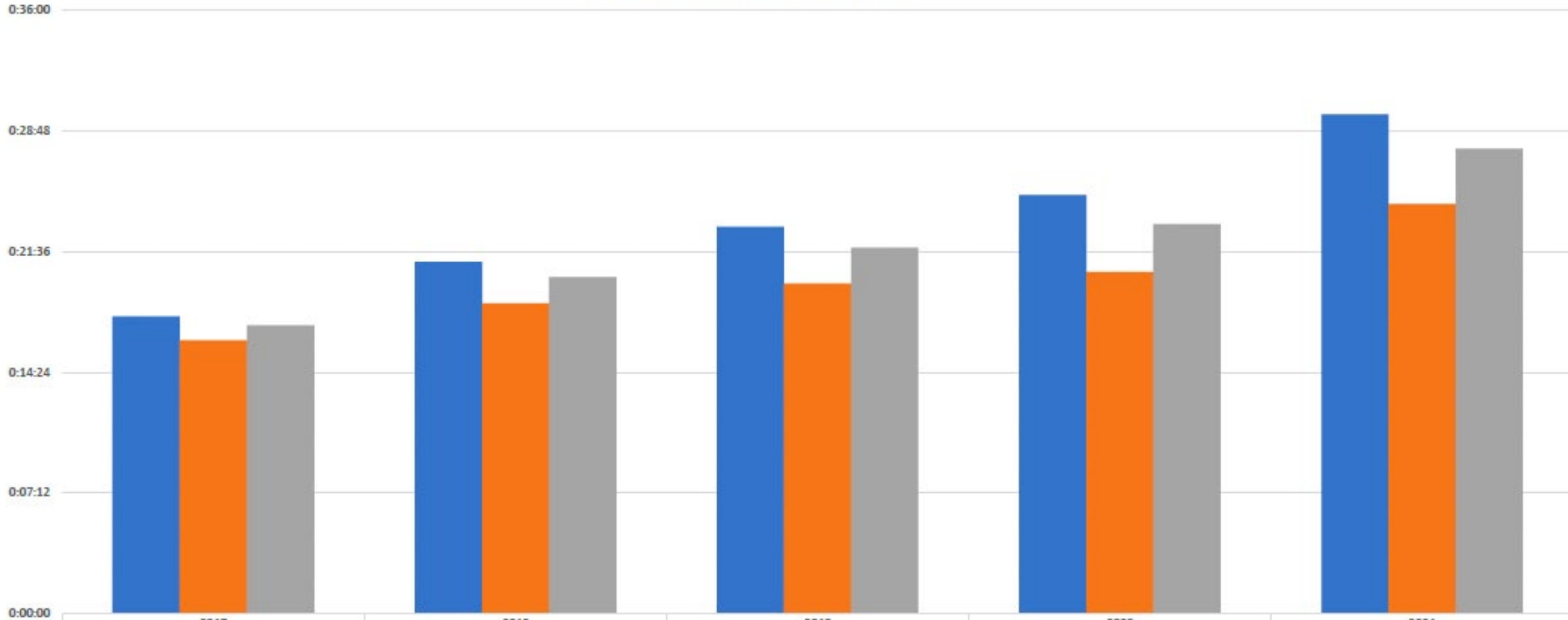
	2017	2018	2019	2020	2021
Day	0:17:45	0:21:01	0:23:06	0:25:00	0:29:48
Night	0:16:20	0:18:32	0:19:43	0:20:24	0:24:28
SFD Yearly Average	0:17:13	0:20:05	0:21:51	0:23:16	0:27:46

2021 includes January through October
Day includes destination arrivals between 8:00-21:59:59. Night includes 20:00:00-07:59:59.
Data provided by Stryker

Code 3 Ambulance Response times VS APOT Times