



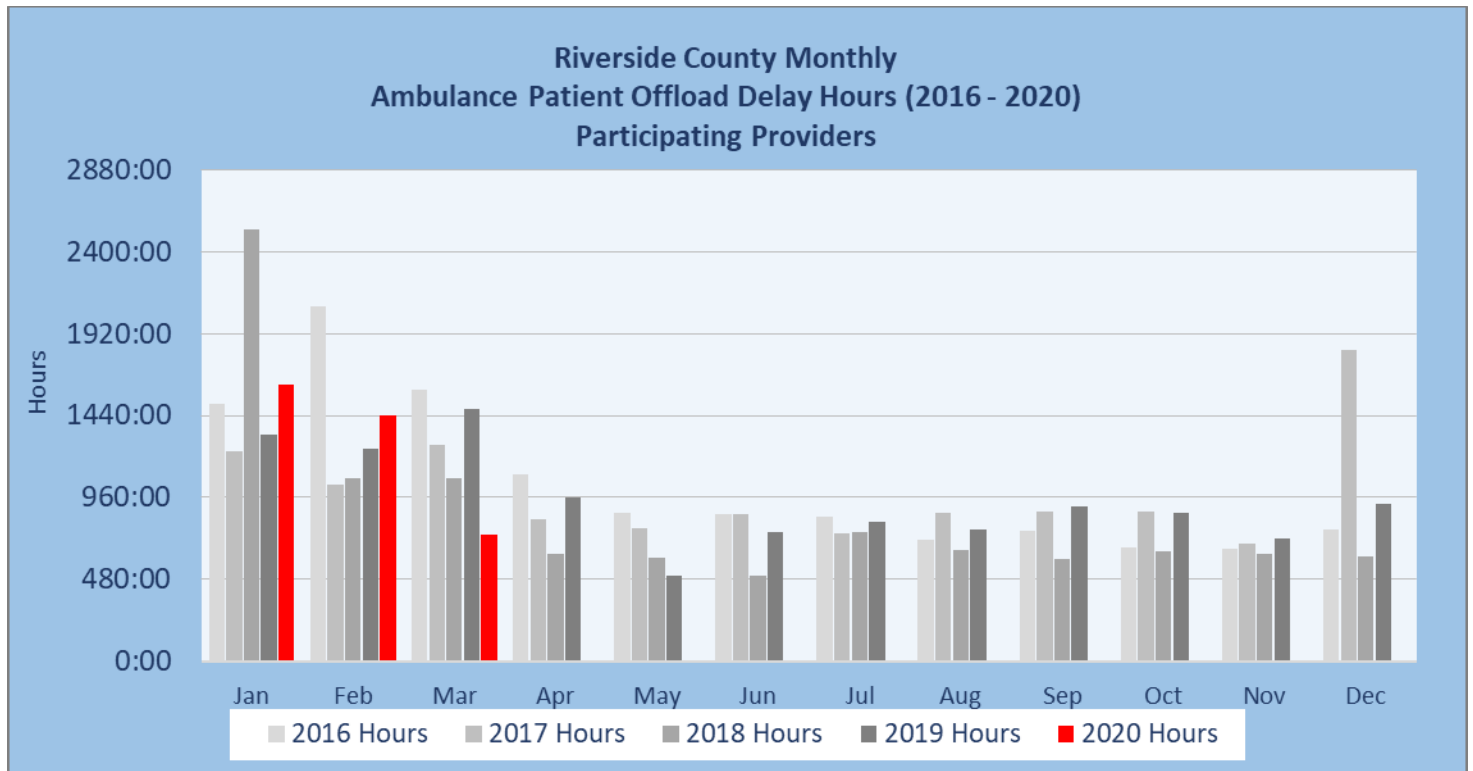
Ambulance Patient Offload Time

March 2020

*Monthly
Report*

RIVERSIDE COUNTY AMBULANCE PATIENT OFFLOAD TIME

This chart represents total ambulance patient offload delay (APOD) time from hospitals within Riverside County. This chart includes only delays greater than 30 minutes, and only the time after the first 30 minutes is summed.



APOD times for years 2015 and 2016 were measured using a different methodology. See page 6 for details.

*For May of 2016, actual totals may have been slightly higher than are reported due to a 3-day CAD outage.

**Beginning August 2017, times represented include all participating providers. Prior to August, data included AMR responses only.

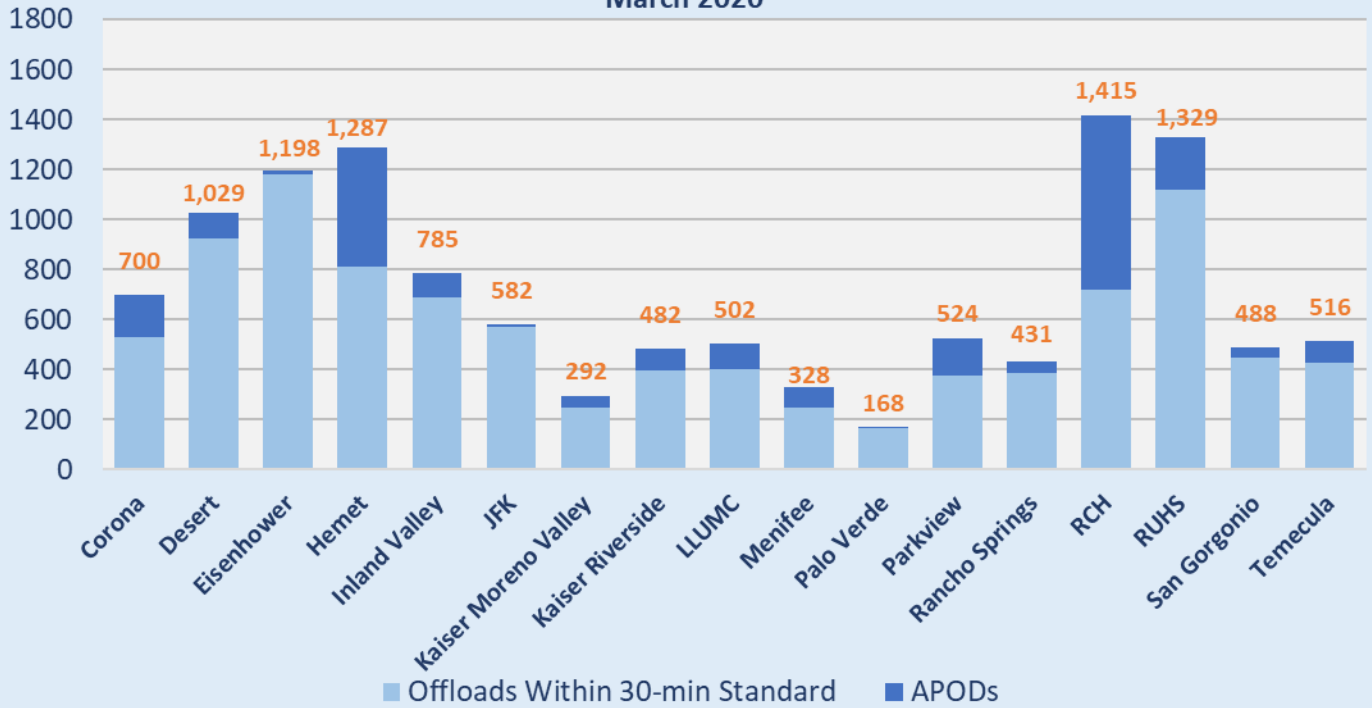
March 2020						
	ALS Transports	APOT	APOD Hours	APODs	APOD Compliance	APOT - 1
Corona Regional Med Ctr	700	268:46:06	56:14:36	169	75.9%	0:46:39
Desert Regional Med Ctr	1,029	269:26:32	29:59:18	106	89.7%	0:30:38
Eisenhower Health	1,198	195:33:57	2:07:13	16	98.7%	0:17:00
Hemet Valley Hospital	1,287	607:10:38	133:47:44	475	63.1%	0:49:14
Inland Valley Med Ctr	785	229:09:03	25:42:21	99	87.4%	0:32:45
JFK Hospital	582	88:23:53	1:09:34	9	98.5%	0:17:34
Kaiser Hospital Moreno Valley	292	100:40:48	18:22:03	44	84.9%	0:37:41
Kaiser Hospital Riverside	482	168:08:57	27:40:44	88	81.7%	0:40:13
Loma Linda Univ Med Ctr Mur	502	185:39:45	24:18:18	100	80.1%	0:37:19
Menifee Med Ctr	328	137:41:30	26:28:33	81	75.3%	0:46:11
Palo Verde Hospital	168	17:57:41	0:38:50	4	97.6%	0:12:49
Parkview Community Hospital	524	235:33:33	62:27:04	147	71.9%	0:51:25
Rancho Springs Med Ctr	431	118:01:17	8:30:33	46	89.3%	0:30:20
Riverside Community Hospital	1,415	815:20:11	251:28:26	696	50.8%	1:03:18
Riverside University Health System	1,329	446:40:16	45:36:34	208	84.3%	0:36:30
San Geronio Mem Hospital	488	141:08:11	5:31:17	38	92.2%	0:28:00
Temecula Valley Hospital	516	181:14:31	24:01:51	91	82.4%	0:36:22
Grand Total	12,056	4206:36:49	744:04:59	2,417	80.0%	0:41:26

Key

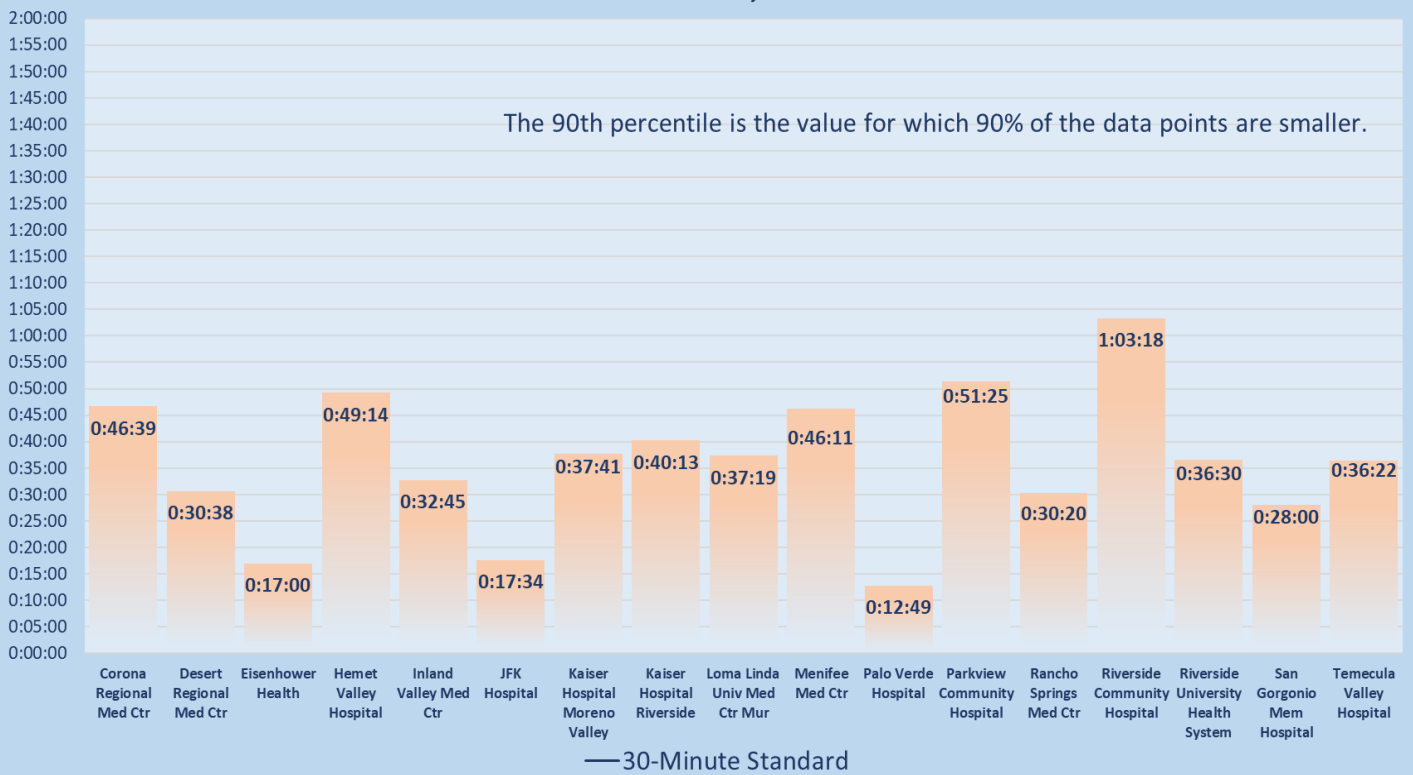
High

Low

Riverside County Hospitals Transports and APODs March 2020



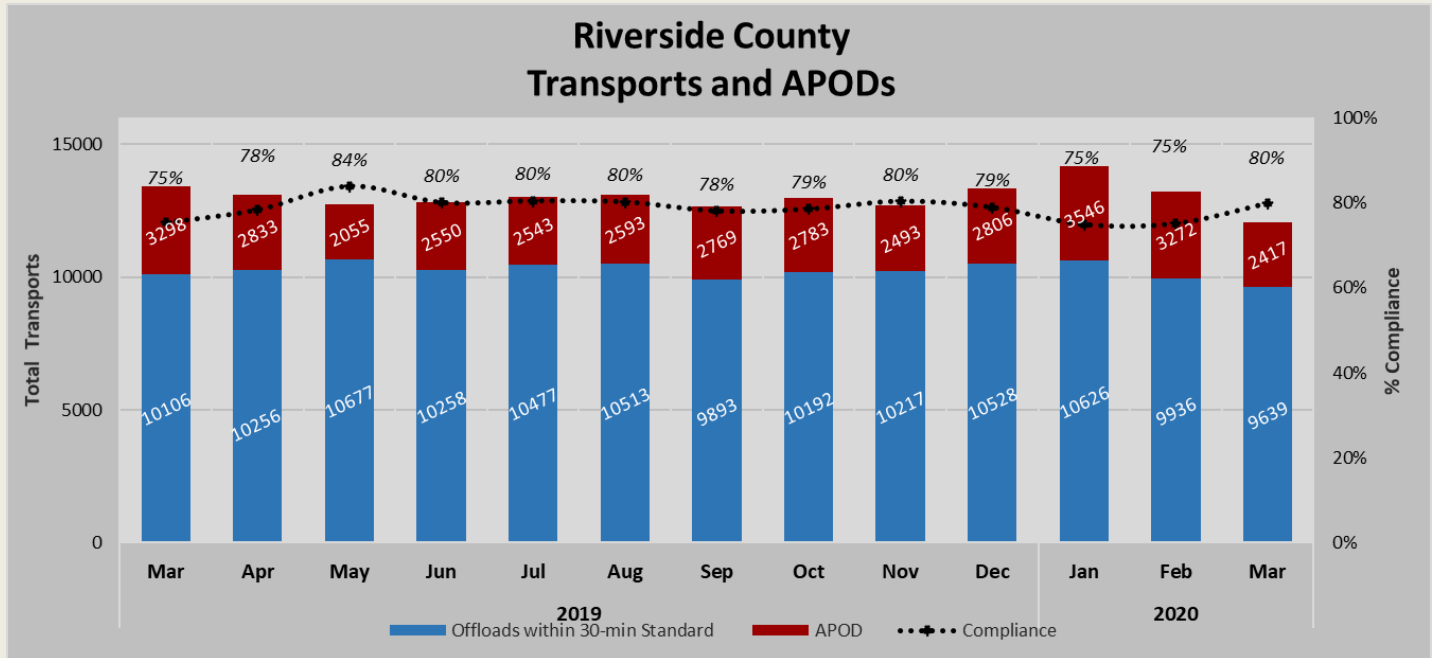
March 2020 APOT 1, 90th Percentile



Data for this report has been collected from ePCRs (electronic patient care records) via FirstWatch® and are available after they have been completed by the provider. There is, therefore, an inherent latency to the availability of these records. Due to this latency, subsequent reports may feature higher aggregate numbers than earlier reports for the same reporting period. The difference is insignificant (averaging less than .07%) and does not impact overall compliance.

APOT AND APOD TRENDS: ROLLING ANNUAL REVIEW

The first chart represents Riverside County's total number of ambulance 9-1-1 transports, patient offload delay (APOD), and percent compliance for a rolling 12 months.



APOD hours only include the time after the 30-minute standard has elapsed.

TRANSPORT VOLUME. Transport volume for each Hospital over a 12 month period is described below. Each hospital can be categorized as a low to high Volume facility. Hospitals are color coded ranging from low to high based on an average transports of last 12 months compared to the current month.

Hospital	Transport Volume												Avg	
	2019						2020							
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Corona Regional Med Ctr	804	710	705	771	819	802	780	790	753	799	821	797	700	773
Desert Regional Med Ctr	1274	1193	1083	1098	1138	1137	1052	1079	1152	1151	1275	1180	1029	1,142
Eisenhower Health	1518	1389	1293	1276	1218	1139	1240	1250	1353	1378	1564	1467	1198	1,329
Hemet Valley Hospital	1374	1487	1416	1375	1465	1435	1429	1501	1380	1472	1535	1348	1287	1,423
Inland Valley Med Ctr	899	836	829	851	895	913	886	894	919	844	972	902	785	879
JFK Hospital	678	737	597	638	685	627	580	627	688	659	699	663	582	651
Kaiser Hospital Moreno Valley	392	322	328	338	341	367	330	317	283	317	353	311	292	330
Kaiser Hospital Riverside	575	507	515	535	506	515	542	511	485	542	556	506	482	521
Loma Linda Univ Med Ctr Mur	655	604	623	627	637	594	599	561	583	588	594	565	502	595
Menifee Med Ctr	296	329	319	338	343	377	311	299	280	336	334	350	328	326
Palo Verde Hospital	151	182	169	162	154	192	166	153	133	152	163	165	168	162
Parkview Community Hospital	550	519	454	480	554	572	510	513	489	594	688	610	524	543
Rancho Springs Med Ctr	481	453	431	454	448	463	440	499	456	470	564	524	431	470
Riverside Comm Hospital	1323	1388	1472	1461	1366	1470	1351	1451	1380	1381	1292	1381	1415	1,395
Riverside Univ Health System	1344	1275	1337	1255	1314	1377	1381	1440	1284	1438	1487	1378	1329	1,357
San Geronio Mem Hospital	598	594	588	563	587	542	563	560	547	585	657	528	488	569
Temecula Valley Hospital	492	564	573	586	550	584	502	530	545	628	618	533	516	555
Riverside County Total	13404	13089	12732	12808	13020	13106	12662	12975	12710	13334	14172	13208	12056	13021

COMPLIANCE. Compliance is a frequency comparison between the total number of transports and those resulting in APOD. The table below shows compliance by hospital for the last 12 months compared to the current month.

Compliance



APOT % Compliance by Hospital for the last 12 months															
	2019												2020		Avg
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Corona Regional Med Ctr	61%	75%	76%	74%	67%	72%	66%	69%	70%	75%	68%	69%	76%	71%	
Desert Regional Med Ctr	91%	95%	97%	94%	95%	89%	90%	94%	87%	89%	83%	83%	90%	91%	
Eisenhower Health	96%	98%	99%	99%	98%	99%	98%	98%	99%	99%	98%	98%	99%	98%	
Hemet Valley Hospital	65%	62%	68%	64%	62%	72%	65%	70%	71%	66%	59%	55%	63%	65%	
Inland Valley Med Ctr	81%	83%	85%	81%	80%	84%	82%	81%	82%	88%	74%	76%	87%	82%	
JFK Hospital	98%	98%	98%	99%	99%	99%	98%	99%	99%	99%	98%	98%	98%	99%	
Kaiser Hospital Moreno Valley	84%	78%	88%	83%	88%	80%	78%	81%	82%	80%	79%	72%	85%	81%	
Kaiser Hospital Riverside	78%	80%	83%	80%	89%	84%	78%	75%	71%	79%	71%	73%	82%	79%	
Loma Linda Univ Med Ctr Mur	57%	55%	68%	65%	74%	73%	72%	71%	73%	70%	70%	75%	80%	69%	
Menifee Med Ctr	76%	74%	76%	71%	76%	78%	77%	66%	75%	72%	75%	71%	75%	74%	
Palo Verde Hospital	99%	98%	99%	100%	99%	100%	100%	99%	100%	99%	97%	98%	98%	99%	
Parkview Community Hospital	71%	73%	86%	81%	83%	83%	78%	84%	86%	74%	63%	68%	72%	77%	
Rancho Springs Med Ctr	83%	92%	89%	93%	91%	93%	90%	89%	90%	91%	88%	89%	89%	90%	
Riverside Community Hospital	41%	55%	76%	60%	54%	50%	52%	55%	63%	49%	41%	44%	51%	53%	
Riverside University Health System	69%	76%	84%	84%	87%	84%	75%	73%	77%	82%	80%	78%	84%	79%	
San Geronio Mem Hospital	84%	86%	89%	85%	89%	89%	92%	90%	86%	89%	90%	93%	92%	89%	
Temecula Valley Hospital	85%	76%	81%	78%	82%	82%	85%	77%	79%	71%	67%	75%	82%	78%	
Riverside County Compliance	75%	78%	84%	80%	80%	80%	78%	79%	80%	79%	75%	75%	80%	79%	

APOT-1. APOT-1 is an Ambulance Patient Offload Time interval measure of the 90th percentile. This metric is a continuous variable measured in hours and minutes then aggregated and reported at the 90th percentile. The table below illustrates APOT-1 by hospital for the last 12 months compared to the current month.

APOT-1 for the last 12 Months															
Hospital	2019												2020		Avg APOT-1
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Corona Regional Med Ctr	1:03	0:43	0:46	0:51	1:04	0:48	1:05	0:58	0:54	0:49	1:00	1:00	0:47	0:54	
Desert Regional Med Ctr	0:27	0:22	0:20	0:24	0:22	0:31	0:30	0:26	0:34	0:32	0:40	0:40	0:31	0:29	
Eisenhower Health	0:21	0:19	0:17	0:17	0:17	0:16	0:18	0:17	0:17	0:16	0:19	0:18	0:17	0:17	
Hemet Valley Hospital	0:49	0:54	0:46	0:50	0:52	0:45	0:50	0:44	0:45	0:45	0:59	1:09	0:49	0:50	
Inland Valley Med Ctr	0:42	0:39	0:38	0:43	0:39	0:37	0:39	0:42	0:42	0:32	0:54	0:49	0:33	0:40	
JFK Hospital	0:17	0:17	0:15	0:17	0:17	0:17	0:16	0:16	0:16	0:15	0:16	0:16	0:18	0:16	
Kaiser Hospital Moreno Valley	0:40	0:42	0:33	0:43	0:35	0:42	0:47	0:54	0:46	0:43	0:51	1:16	0:38	0:45	
Kaiser Hospital Riverside	0:46	0:43	0:36	0:42	0:31	0:36	0:49	0:51	0:55	0:46	1:09	1:00	0:40	0:46	
Loma Linda Univ Med Ctr Mur	1:05	1:05	0:48	0:48	0:43	0:43	0:43	0:47	0:44	0:51	0:45	0:42	0:37	0:47	
Menifee Med Ctr	0:49	0:54	0:46	0:55	0:46	0:46	0:45	1:10	0:45	0:54	0:55	0:56	0:46	0:51	
Palo Verde Hospital	0:13	0:14	0:12	0:10	0:12	0:13	0:11	0:09	0:12	0:12	0:13	0:13	0:13	0:12	
Parkview Community Hospital	0:51	0:46	0:35	0:41	0:38	0:38	0:46	0:37	0:34	0:41	1:15	0:55	0:51	0:45	
Rancho Springs Med Ctr	0:38	0:28	0:31	0:28	0:29	0:27	0:30	0:32	0:30	0:29	0:33	0:32	0:30	0:30	
Riverside Comm Hospital	1:54	1:10	0:40	0:54	1:03	1:08	1:06	0:58	0:48	1:10	1:33	1:23	1:03	1:08	
Riverside Univ Health System	0:48	0:41	0:35	0:35	0:32	0:36	0:41	0:45	0:40	0:35	0:38	0:42	0:37	0:38	
San Geronio Mem Hospital	0:36	0:33	0:31	0:35	0:31	0:31	0:29	0:31	0:33	0:31	0:31	0:26	0:28	0:31	
Temecula Valley Hospital	0:34	0:47	0:39	0:42	0:35	0:40	0:35	0:43	0:41	0:51	0:55	0:43	0:36	0:41	
Riverside County Compliance	0:48	0:43	0:36	0:40	0:40	0:40	0:43	0:43	0:39	0:41	0:50	0:50	0:41	0:43	

APOD AMBULANCE REDIRECTION

On October 1, 2019, Riverside County EMS Agency activated Policy 6104 (<http://www.remsa.us/policy/6104.pdf>) to allow redirection of ambulances from hospitals that have extended Ambulance Patient Offload Delay (APOD) to the closest most appropriate hospital that does not have extended APOD. Extended APOD is a patient remaining on an ambulance gurney for 90 minutes or greater after arrival at a hospital. The table below shows the total number of ambulance diversions that occurred since activation of the provisional policy in March 2019.

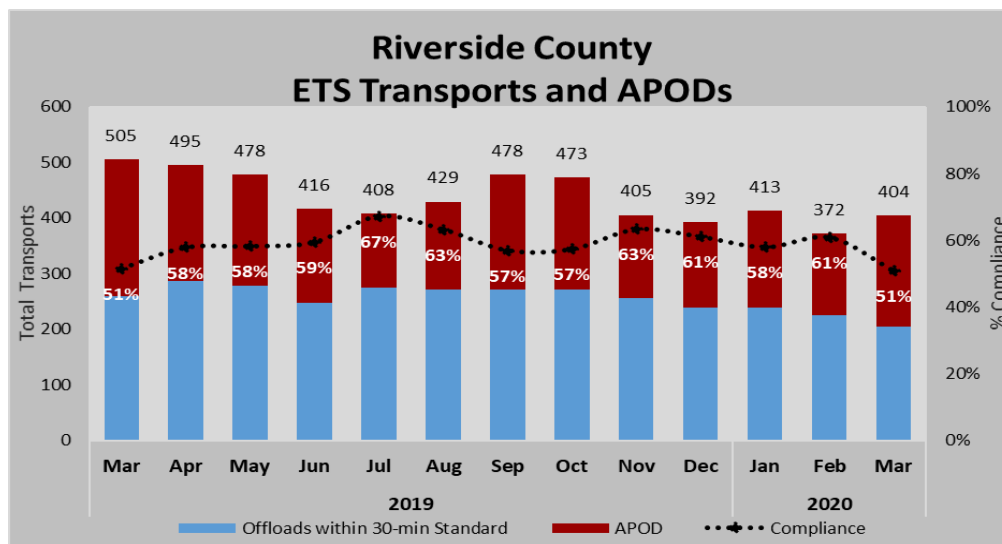
	2019											2020		Total Redirection
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Corona Regional Medical Center	3	3	4	3	10		10	12	9	6	18	11	5	94
Desert Regional Medical Center									2	2	3	9	2	18
Hemet Valley Medical Center	1	5	2		2	2	2	2	1		5	21	1	44
Inland Valley Medical Center	1	3	2		2	2		6	5		10	7	1	39
Kaiser Hospital Moreno Valley				1			4	12	2	1	4	12		36
Kaiser Hospital Riverside	2	1					4	2	5	5	10	8	1	38
Loma Linda Univ Med Ctr Murrieta	2	15	1	5	1	3	2	12	2	7	7	10	1	68
Menifee Valley Medical Center	3	5		4	3	3	4	8	1	2	4	6	1	44
Parkview Community Hospital	3	1					2			1	17	8	4	36
Rancho Springs Medical Center							2				1		1	4
Riverside Community Hospital	12	21	1	6	21	21	38	10		16	45	36	7	234
Riverside University Health System		1		1		1		14				2		19
Temecula Valley Hospital		2		2					1	1	2			8
Total Redirection	27	57	10	22	39	32	68	78	28	41	126	130	24	682

EMERGENCY TREATMENT SERVICES

Transports to Emergency Treatment Services (ETS) comprise over 3% of overall transports. This is significant enough to impact the EMS system and, therefore, warrants reporting. However, transports to ETS do not meet the EMSA definitions for APOT (see page 6); therefore, they are not included with the previous APOT aggregates.

March 2020 - Emergency Treatment Services				
	Total Offload			APOD
	Transports to ETS	Time	APOD Hours	Compliance
Emergency Treatment Services	404	259:01:19	91:17:06	50.7%

The chart below represents Riverside County's total number of ETS ambulance transports, patient offload delay (APOD), and percent compliance for a rolling 12 months.



APOT AND APOD DEFINITIONS

Ambulance Patient Offload Time (APOT)

The Time interval between the arrival of an ambulance patient at an ED and the time the patient is transferred to the ED gurney, bed, chair, or other acceptable location and the emergency department assumes the responsibility for care of the patient.¹ The Clock Start (eTimes.11) is the time of patient arrival at the destination (hospital), and the Clock Stop (eTimes.12) is time the care of the patient is transferred.² REMSA obtains both times from the ePCR.

APOT -1 Specifications

Criteria: All 911 transports to a hospital emergency department for which the patient arrival and transfer dates and times are “logical and present.”³

Method: Aggregate of all transfer times and reported at the 90th percentile (the value for which 90% of the times are shorter).

Ambulance Patient Offload Delay (APOD)

Any delay in ambulance patient offload time (APOT) that exceeds the local ambulance patient offload time standard of 25/30 minutes (Riverside County EMS Agency applies a 30-minute standard). This shall also be synonymous with “non-standard patient offload time” as referenced in the Health and Safety Code.⁴ If the transfer of care and patient offloading from the ambulance gurney exceeds the 30 minute standard, it will be documented and tracked as APOD.⁵

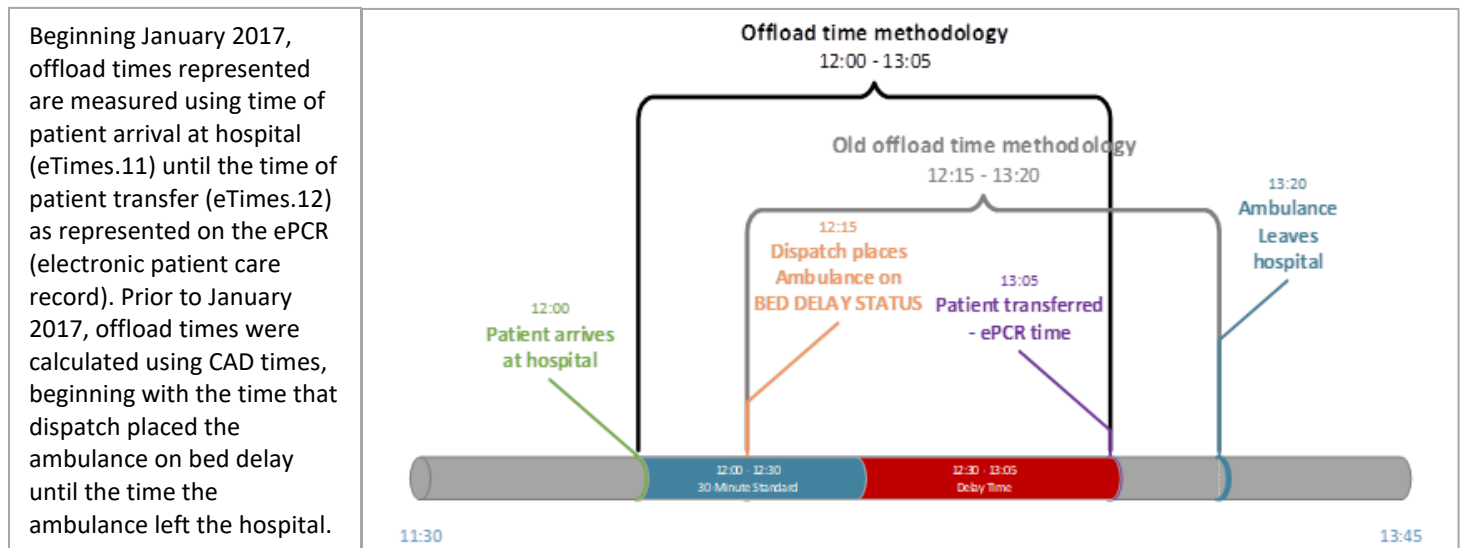
APOD Compliance

A frequency comparison between the total number of transports and those resulting in APOD.

Data Definitions

Data in this report includes all transports to the 17 hospitals monitored by REMSA in the respective month relative to the date and time the incident originates (eTimes.03--Dispatch Notified Date/Time). For example, if an incident originates on June 30, and the patient is subsequently transferred to the care of an emergency department on July 1, that incident will be included in the month of June.

Canceled calls, calls for which both arrival and transfer times are not present, and calls with erroneous/negative offload times are excluded. Certain incidents with offload times exceeding six hours and 12 hours are verified for accuracy, and incidents are excluded if the timeline cannot be validated.



Beginning January 2017, offload times represented are measured using time of patient arrival at hospital (eTimes.11) until the time of patient transfer (eTimes.12) as represented on the ePCR (electronic patient care record). Prior to January 2017, offload times were calculated using CAD times, beginning with the time that dispatch placed the ambulance on bed delay until the time the ambulance left the hospital.

¹ Health and Safety Code Division 2.5, Chapter 3, Article 1, Section 1797.120(b)

² Ambulance Patient Offload Time (APOT) Standardized Methods for Data Collection and Reporting, approved by EMS Commission 12/14/2016.

³ Ibid., APOT-1 Specifications.

⁴ REMSA Policy 9101.6. <http://www.remsa.us/policy/9101.pdf>

⁵ REMSA Policy 4204, Transfer of Patient Care. <http://www.remsa.us/policy/4204.pdf>