



CEMSIS Data Report Calendar Year 2017 and 2018

Emergency Medical Services Authority
California Health and Human Services Agency



EMSA #R001-2020



Dave Duncan, MD
Director

Daniel R. Smiley
Former Chief Deputy Director

Tom M^cGinnis
Chief, EMS Systems Division

EMSA #R001-2020

If you have any questions or comments about this report, please contact:

Adrienne Kim
Data and QI Unit Manager
916-322-4336 Ext. 3742
Adrienne.Kim@emsa.ca.gov

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Table of Contents

METHODOLOGY	4
Limitations of Analysis.....	4
ANNUAL REPORT	5
EMS System Responses.....	6
Top Ten Primary Impressions	11

Methodology

In CY 2017, EMSA collected some form of data from 30 (91%) of the 33 LEMSAs and 31 (94%) in CY 2018, Data presented in this report was collected in CEMSIS based on version 3.4 standards from NEMSIS.

The data in this report are extracted from CEMSIS, which is maintained by Inland Counties Emergency Medical Agency (ICEMA), the current EMSA data system contractor. The data is obtained from 30 LEMSAs that submit data from approximately 355 providers. LEMSAs submit data to this system on their own schedule, so that data may be submitted daily, annually, or on any other schedule in between. For this reason the report reflects data for CY 2017 and 2018 because submissions for this calendar year have largely stabilized and are most likely to have been completed by the mid CY 2019. The next report will be for the period of CY 2019.

The charts and graphs have been calculated by three different categories. EMS responses, 911 EMS responses, and 911 EMS transports. EMS responses were calculated by incident year (2017, 2018). 911 EMS responses was calculated by incident year (2017 and 2018), Type of Service Requested (911 Response (Scene) and BLS 911 Response (Scene) and 911 EMS transports were calculated using the same criteria as 911 EMS responses but with an additional criteria (Incident Patient Disposition (Patient Treated and Transported)). These criteria are used throughout the charts and graphs unless otherwise stated.

Limitations of Analysis

This report uses descriptive statistics. The data and analysis are limited because after reviewing the data in CEMSIS, we have found discrepancies with some data elements and the values that have been chosen by the EMS providers but have not been mapped correctly within CEMSIS. Analysis is also limited as this report does not represent all of California; with Los Angeles County EMS Agency not reporting their data into CEMSIS.

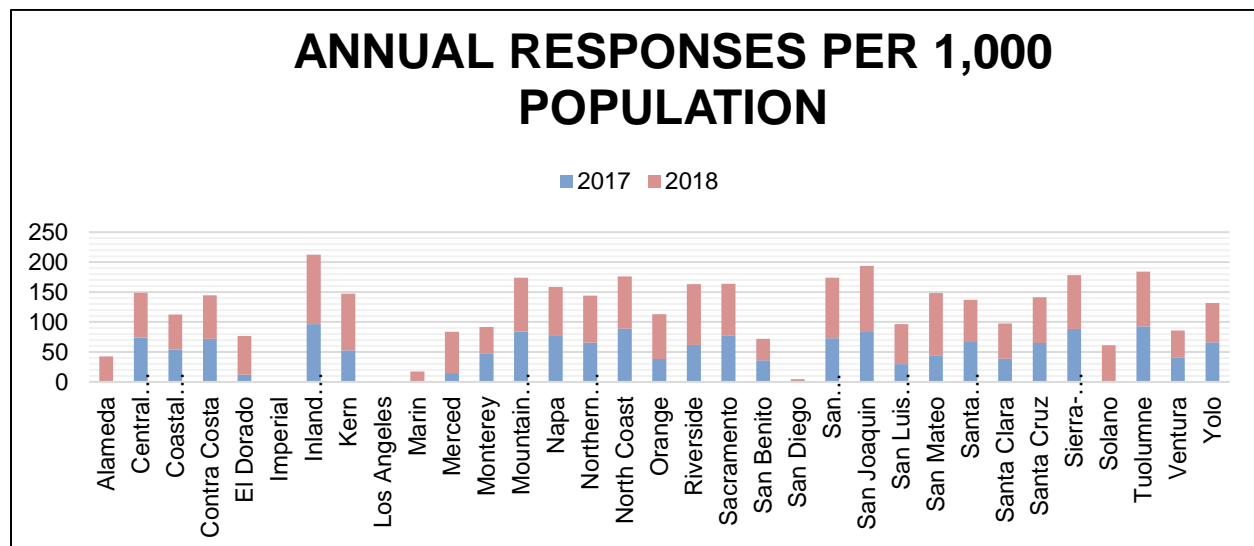
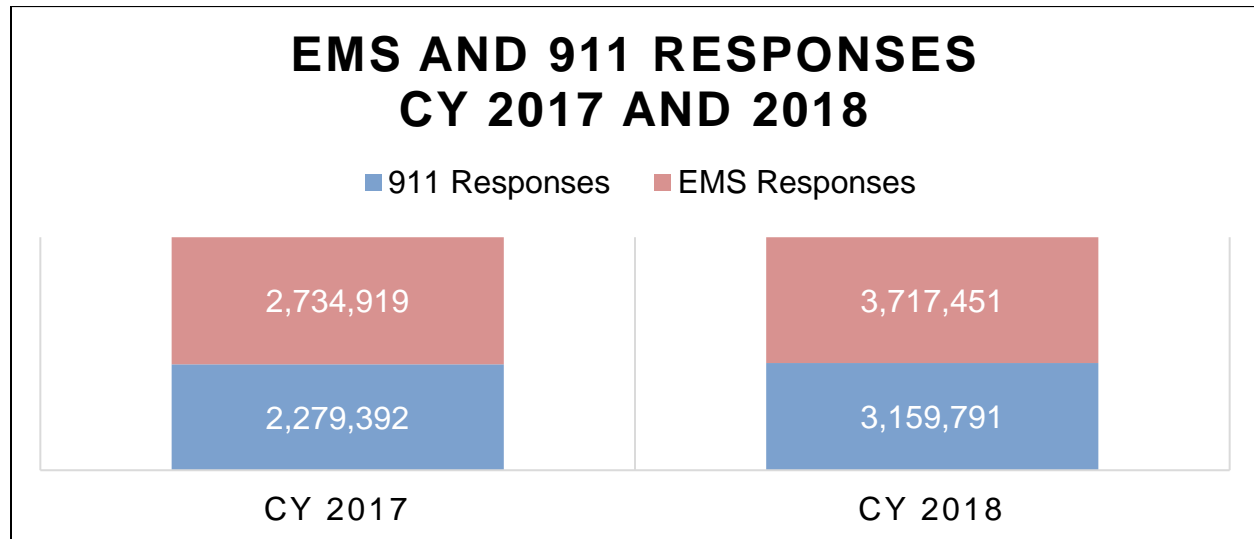


Emergency Medical Services Annual Report

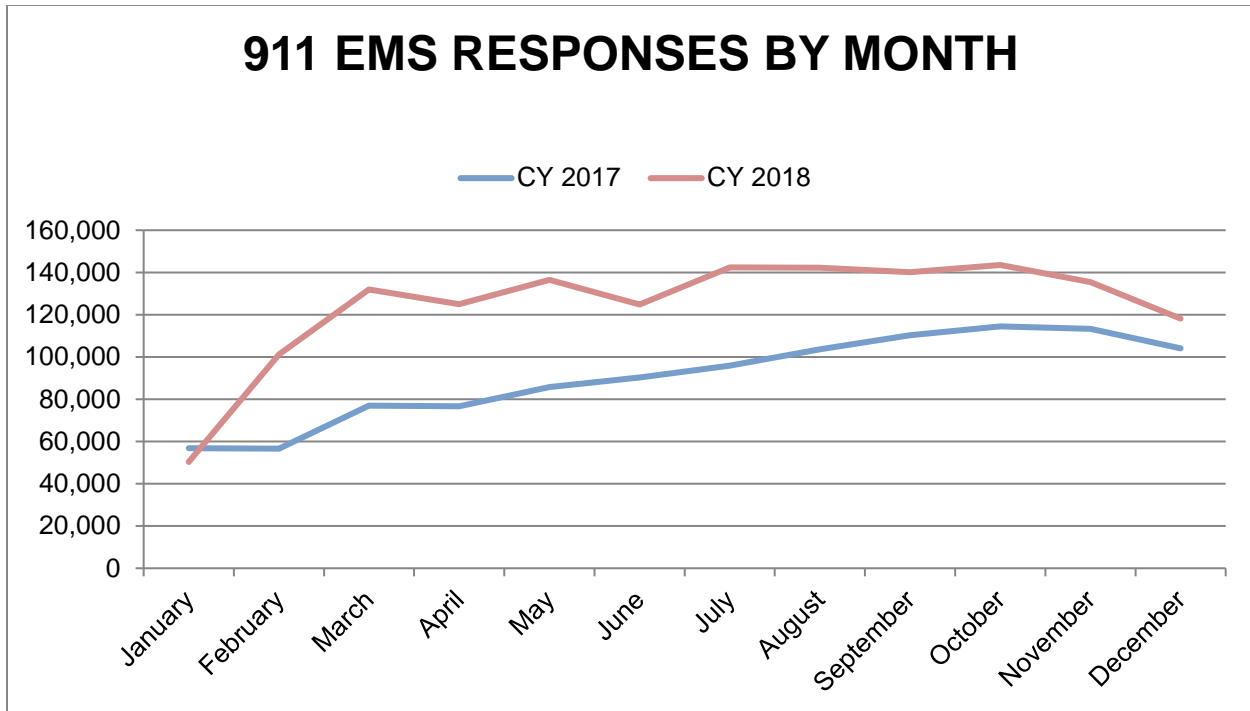
Calendar Year 2017 and 2018

EMS System Responses

The total number of EMS calls submitted into CEMSIS was 2,734,919 in CY 2017 and 3,717,451 in CY 2018. This includes all calls including interfacility transfer, medical transport, mutual aid, and etc. 911 EMS Responses represents 83% (2,279,392) in 2017 and 85% (3,159,791) in 2018. Out of these 911 EMS Responses, there were a total of 1,475,127 calls in CY 2017 and 2,082,802 calls in CY 2018 that had some form of patient contact.



Annual responses is defined as a 911 response in which a patient was treated and transported by an EMS unit.



Between January and December of CY 2017, 24 of 33 LEMSAs started submitting data into CEMISIS. Six LEMSAs started to submit data at a later date but we still received their past data hence the increase of records submitted during CY 2017. The six LEMSAs are Merced County EMS Agency, Santa Barbara County EMS Agency, San Diego County EMS Agency, San Mateo County EMS Agency, Solano County EMS Agency and Tuolumne County EMS Agency.

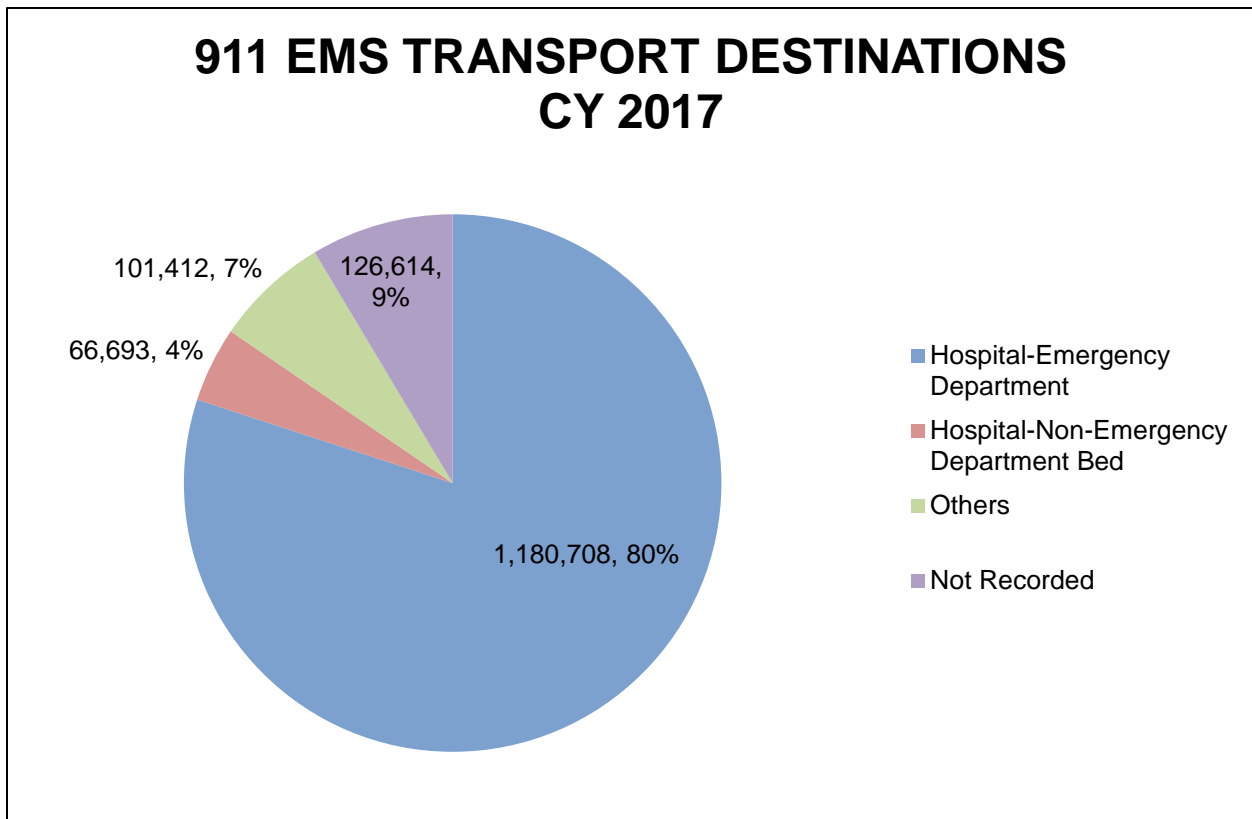
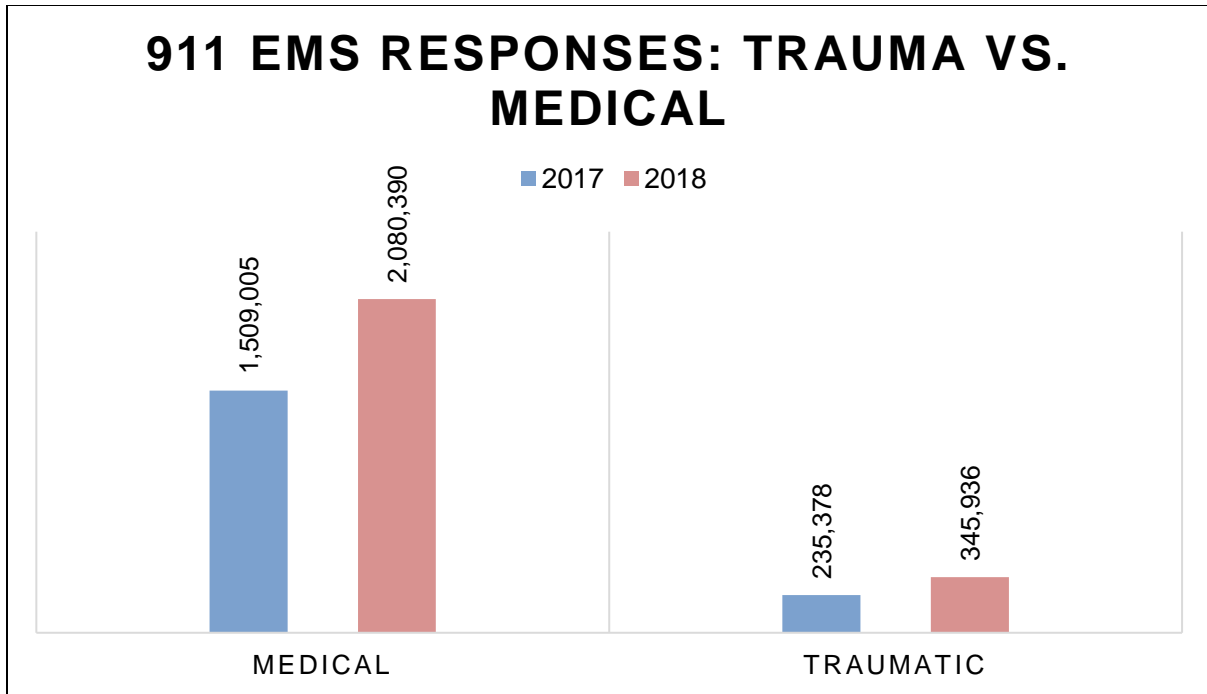
**911 EMS Transports by Age
CY 2017**

Age	Trauma	Medical
≤14	9,345	38,904
15-26	20,646	95,196
27-44	26,535	176,614
45-63	29,618	279,357
≥64	49,147	415,804
Grand Total	135,291	1,005,875

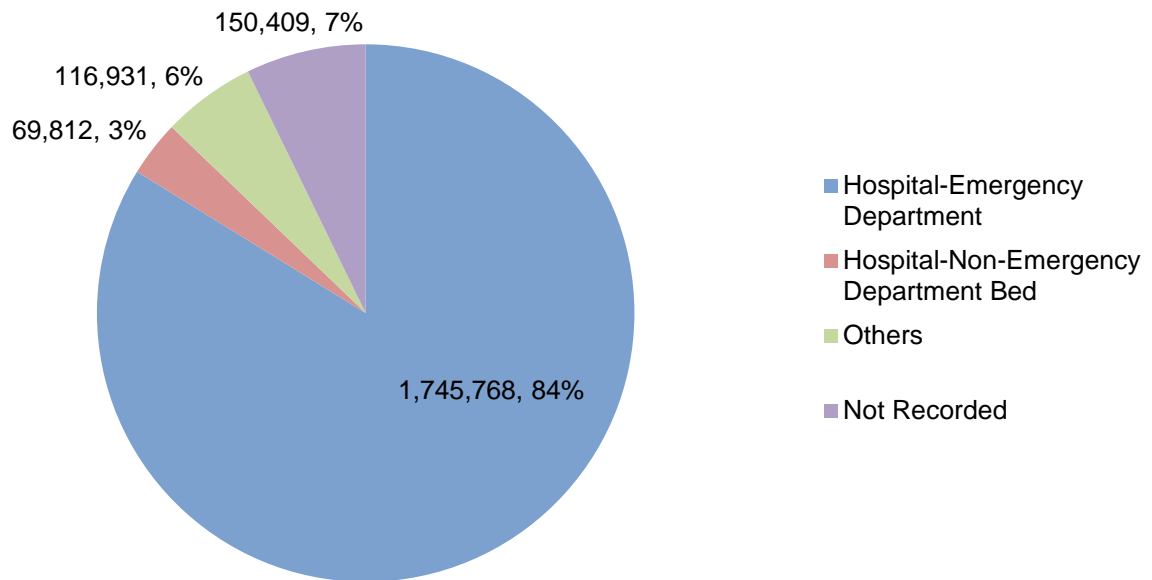
**911 EMS Transports by Age
CY 2018**

Age	Trauma	Medical
≤14	12,947	54,231
15-26	30,443	128,969
27-44	41,224	251,930
45-63	45,970	391,733
≥64	83,265	610,187
Grand Total	213,849	1,437,050

The age ranges chosen based on the previous Annual EMS reports. It supports the efforts to collect data for the Emergency Medical Services for children program, which funds EMS services aimed at patients 0 through age 14 years. It also organizes data for patients aged 64 and over to support public health efforts aimed at older persons.



911 EMS TRANSPORT DESTINATIONS CY 2018



911 EMS Transports by Incident Patient Disposition

Incident Patient Disposition	CY 2017	CY 2018
Assist, Agency	46,946	113,457
Assist, Public	18,289	26,097
Assist, Unit	25,594	42,005
Canceled (Prior to Arrival at Scene)	156,834	234,514
Canceled on Scene (No Patient Contact)	148,559	231,791
Canceled on Scene (No Patient Found)	60,489	75,783
Patient Dead at Scene-No Resuscitation Attempted (With Transport)	4	11
Patient Dead at Scene-No Resuscitation Attempted (Without Transport)	12,138	16,115
Patient Dead at Scene-Resuscitation Attempted (With Transport)	27	48
Patient Dead at Scene-Resuscitation Attempted (Without Transport)	7,960	10,430
Patient Evaluated, No Treatment/Transport Required	24,661	33,478
Patient Refused Evaluation/Care (With Transport)	130	179
Patient Refused Evaluation/Care (Without Transport)	25,354	53,427
Patient Treated, Released (AMA)	162,911	200,197
Patient Treated, Released (per protocol)	19,239	9,981
Patient Treated, Transferred Care to Another EMS Unit	1	1
Patient Treated, Transported by this EMS Unit	1,084,767	1,491,988
Patient Treated, Transported by Law Enforcement	4,075	4,815
Patient Treated, Transported by Private Vehicle	3,241	3,310
Standby-No Services or Support Provided	4,339	6,336
Standby-Public Safety, Fire, or EMS Operational Support Provided	5,397	17,865
Transport Non-Patient, Organs, etc	16	52
Other	468,522	588,889
Grand Total:	2,279,493	3,160,769

*Other refers to other values that are not apart of the CEMISIS/NEMISIS values.

Top Ten Primary Impressions

The top ten primary Impressions for 911 EMS Responses as the same for both CY 2017 and CY 2018.

Primary Impressions	CY 2017	CY 2018
General Weakness	90,268	149,851
ALOC - (Not Hypoglycemia or Seizure)	90,454	125,764
Behavioral/Psychiatric Crisis	77,837	121,143
Abdominal Pain/Problems (GI/GU)	72,038	114,189
Non-Traumatic Body Pain	87,148	127,114
Respiratory Distress/Other	63,326	105,681
Syncope/Near Syncope	52,275	75,511
Chest Pain - Suspected Cardiac	47,967	75,349
No Medical Complaint	38,702	52,318
Seizure - Post	42,387	63,552
Dizziness/Vertigo	38,461	56,012
Pain/Swelling - Extremity - non-traumatic	34,451	60,117
Grand Total:	735,314	1,126,601