

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES

2011 EMERGENCY MEDICAL SERVICES SYSTEM REPORT

San Diego County Facts 2011

Population - 3,115,810

- Female - 50%
- Male - 50%

Square Miles - Over 4,200

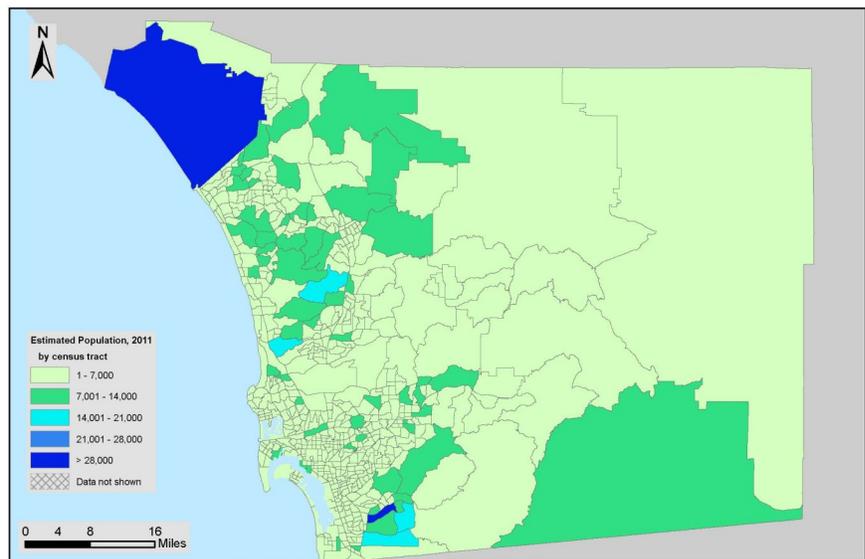
Agencies - 66 agencies

- Advanced Life Support (ALS) - 37
- Basic Life Support (BLS) - 28
- Air Ambulance - 1

Hospitals

- Emergency Departments - 20
- Base Hospitals - 7
- Trauma Centers - 6
- STEMI Receiving Centers - 13
- Stroke Receiving Centers - 16

2011 San Diego County Population by Census Tract



Population estimates 2011-2013, San Diego Association of Governments (SANDAG).
Maps/Analysis by County of San Diego, Emergency Medical Services
Contact Isabel Corcos, Leslie Ray 619.265.6249, Map Date: August, 2014

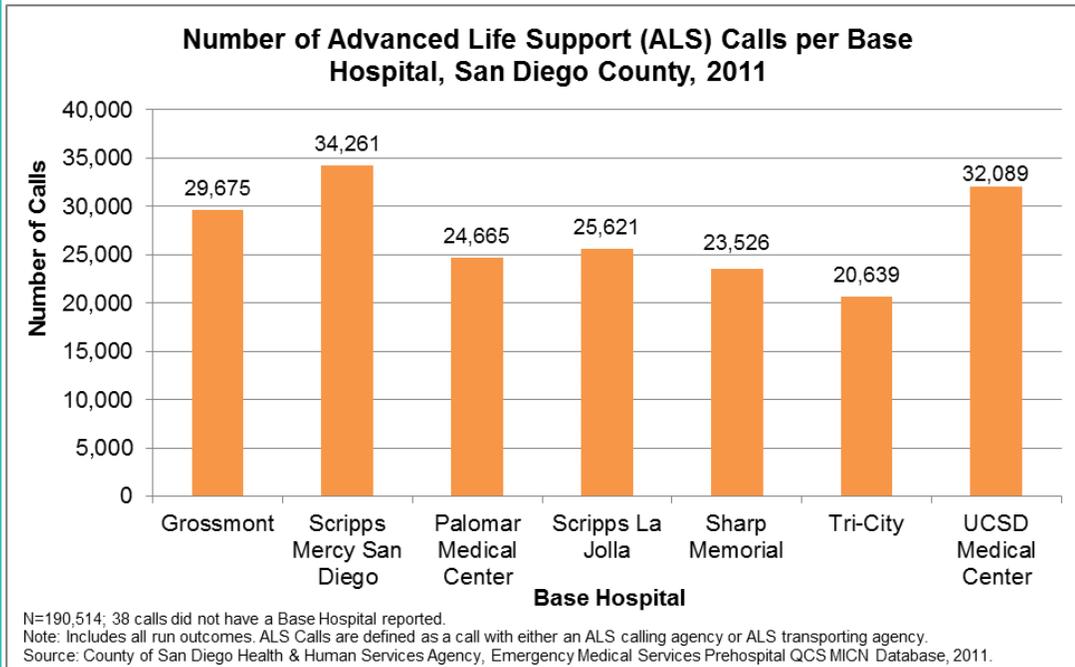
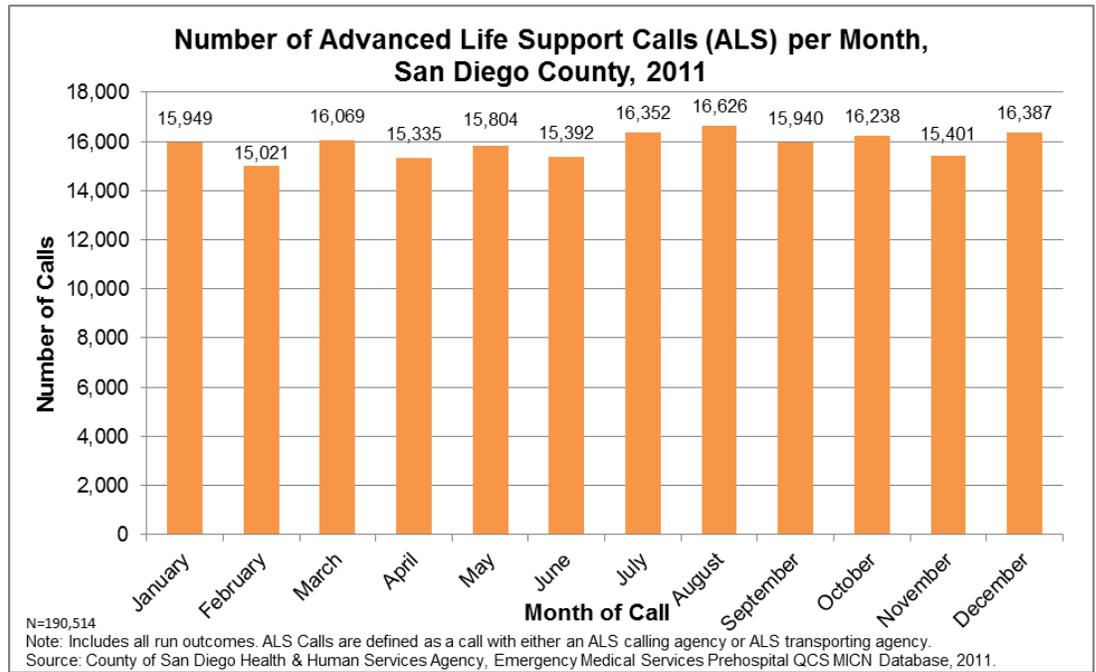


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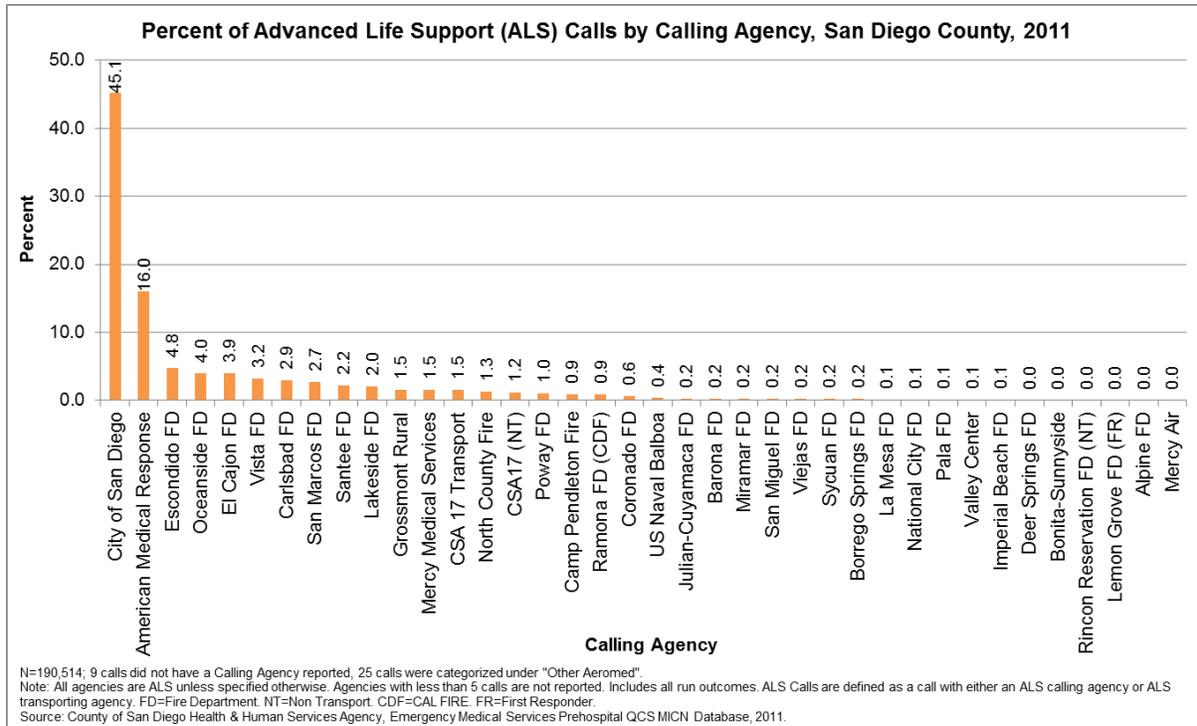
Prehospital System Overview - Advanced Life Support (ALS) Calls

In 2011, there were 190,514 ALS calls made in San Diego County. August had the largest call volume, followed by December, while the fewest number of calls were made in February.

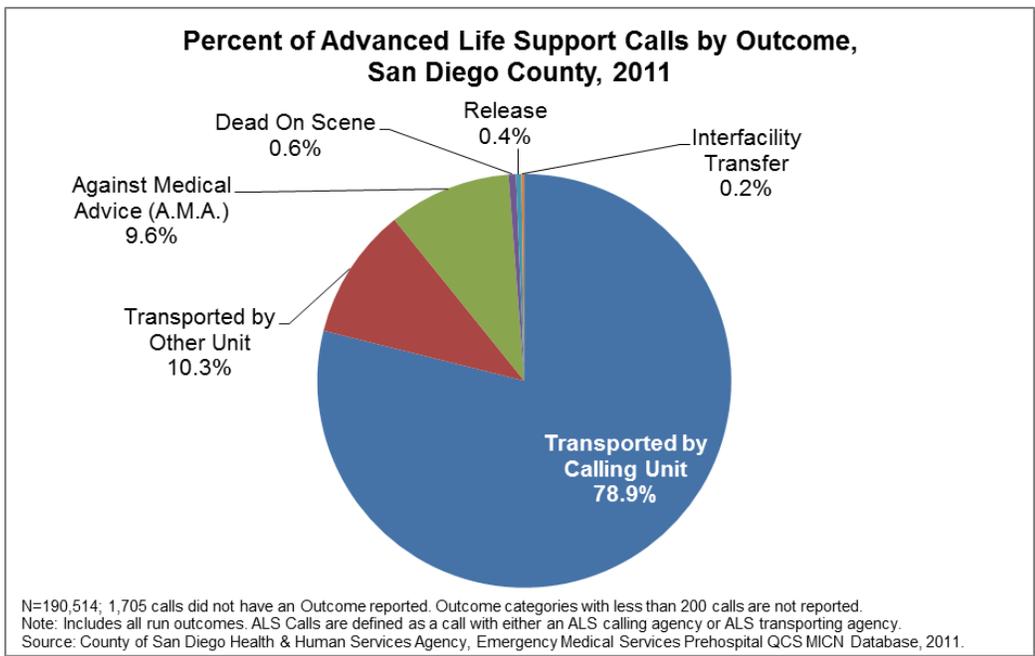


The distribution of ALS calls among the San Diego County Base Hospitals ranged from 10.8% to 18.0%.

Prehospital System Overview - Advanced Life Support (ALS) Calls



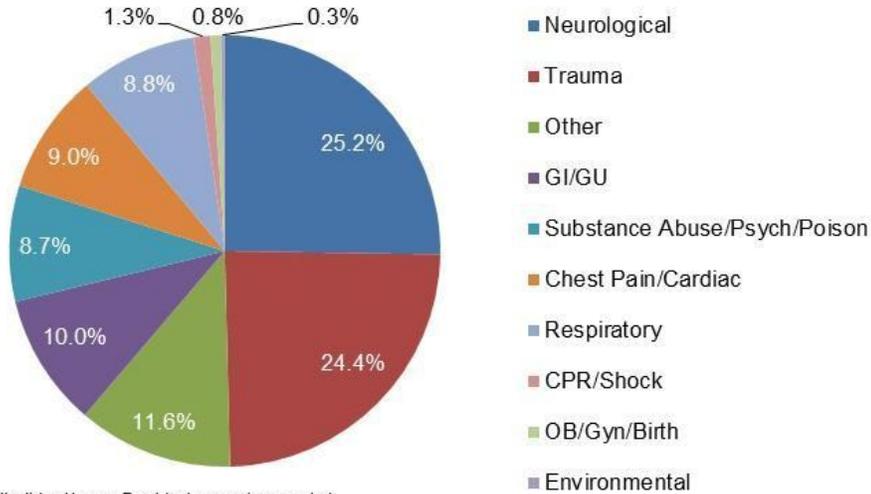
In 2011, the distribution of ALS calls among calling agencies ranged from 45.1% to less than 1.0%.



More than 89% of ALS calls resulted in patient transport to an emergency department. Nearly 10% of ALS calls resulted in the patient refusing transport (A.M.A.).

Prehospital System Overview - Advanced Life Support (ALS) Calls

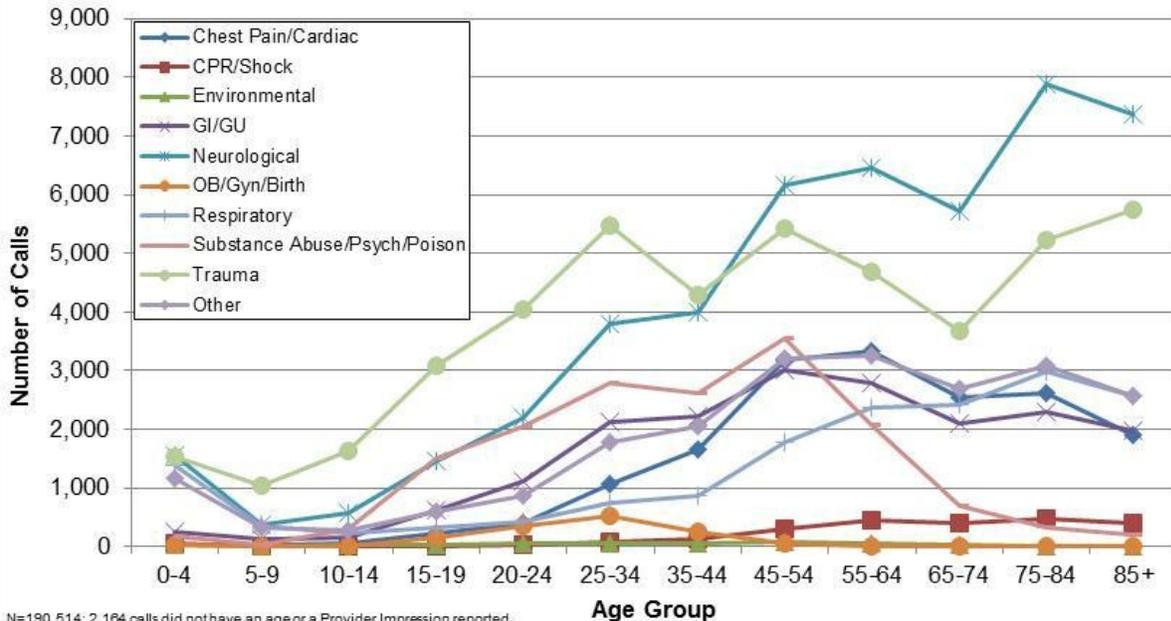
Percent of Advanced Life Support (ALS) Calls by Provider Impression Category, San Diego County, 2011



In 2011, one in four ALS calls were neurological related and 24.4% were trauma related.

N=190,514. 1,742 calls did not have a Provider Impression reported.
Note: Includes all run outcomes. ALS Calls are defined as a call with either an ALS calling agency or ALS transporting agency.
Source: County of San Diego Health & Human Services Agency, Emergency Medical Services Prehospital QCS MICN Database, 2011.

Number of Advanced Life Support (ALS) Calls by Provider Impression Category and Age Group, San Diego County, 2011



N=190,514; 2,164 calls did not have an age or a Provider Impression reported.
Note: ALS Calls are defined as a call with either an ALS calling agency or ALS transporting agency.
Source: County of San Diego Health & Human Services Agency, Emergency Medical Services Prehospital QCS MICN Database, 2011.

For most Provider Impression categories, the number of ALS calls increased with age.

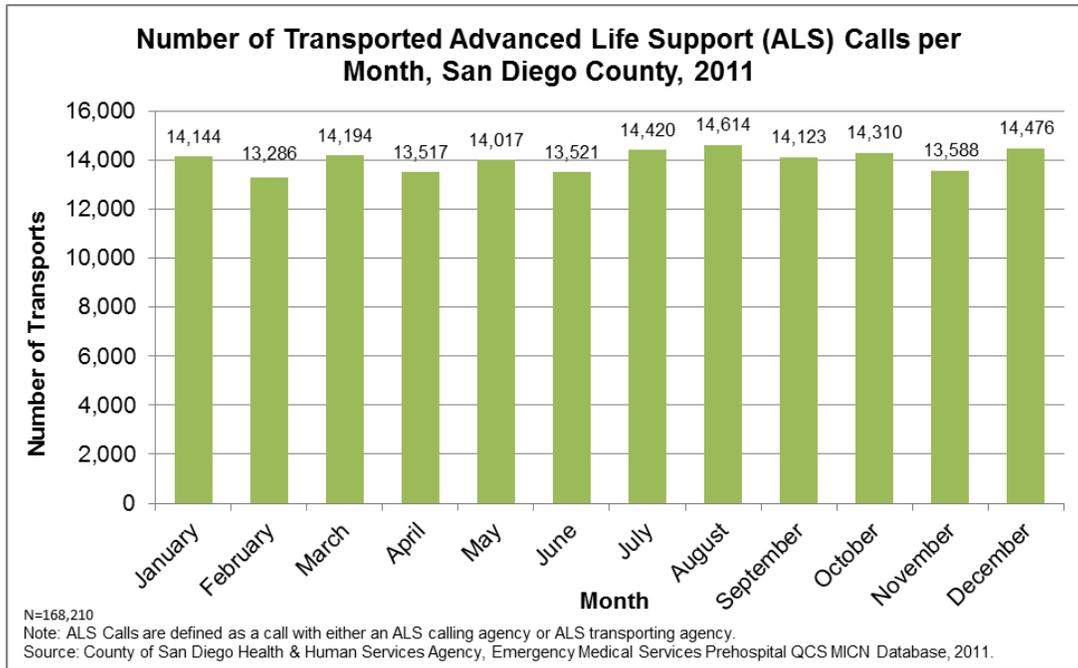
**Prehospital System Overview -
Advanced Life Support (ALS) Calls**

Leading Provider Impression Categories by Age Group in San Diego County, 2011				
Age Group				
0-14	15-24	25-64	65+	Total
Trauma 4,211	Trauma 7,136	Neurological 20,403	Neurological 20,973	Neurological 47,587
Neurological 2,542	Neurological 3,669	Trauma 19,877	Trauma 14,664	Trauma 45,888
Respiratory 1,979	Substance Abuse/ Psych/Poison 3,570	Substance Abuse/ Psych/Poison 11,031	Other 8,361	Other 21,907
Other 1,774	GI/GU 1,721	Other 10,301	Respiratory 7,979	GI/GU 18,784
GI/GU 550	Other 1,471	GI/GU 10,142	Chest Pain/Cardiac 7,064	Chest Pain/Cardiac 17,048
Substance Abuse/ Psych/Poison 528	Respiratory 754	Chest Pain/Cardiac 9,249	GI/GU 6,371	Respiratory 16,496
Chest Pain/Cardiac 121	Chest Pain/Cardiac 614	Respiratory 5,784	CPR/Shock 1,294	Substance Abuse/ Psych/Poison 16,341
Environmental 85	OB/Gyn/Birth 532	CPR/Shock 960	Substance Abuse/Psych/Poison 1,212	CPR/Shock 2,362
CPR/Shock 63	Environmental 92	OB/Gyn/Birth 861	Environmental 50	OB/Gyn/Birth 1,463
OB/Gyn/Birth 32	CPR/Shock 45	Environmental 247	OB/Gyn/Birth 38	Environmental 474

N=190,514; 2,164 calls did not have an age or a Provider Impression reported.
 Note: ALS Calls are defined as a call with either an ALS calling agency or ALS transporting agency.
 Source: County of San Diego Health & Human Services Agency, Emergency Medical Services Prehospital QCS MICN Database, 2011.

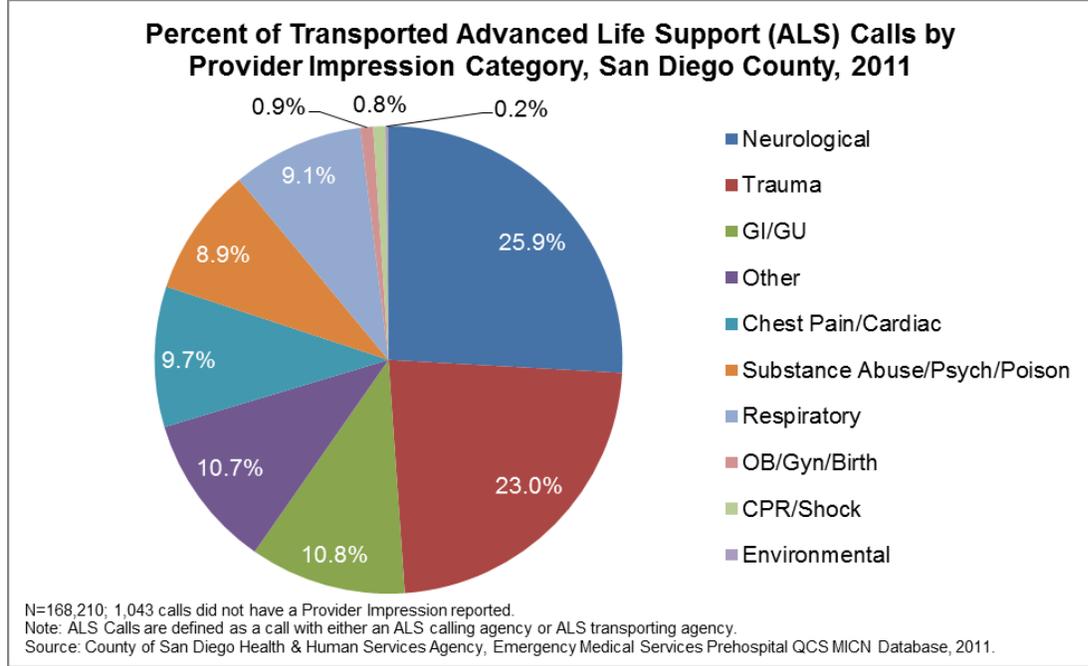
Overall, neurological related was the leading Provider Impression category in 2011. However, for the younger age groups (0-14 and 15-24 years), trauma related was the leading Provider Impression category.

Prehospital System Overview - Advanced Life Support (ALS) Transports



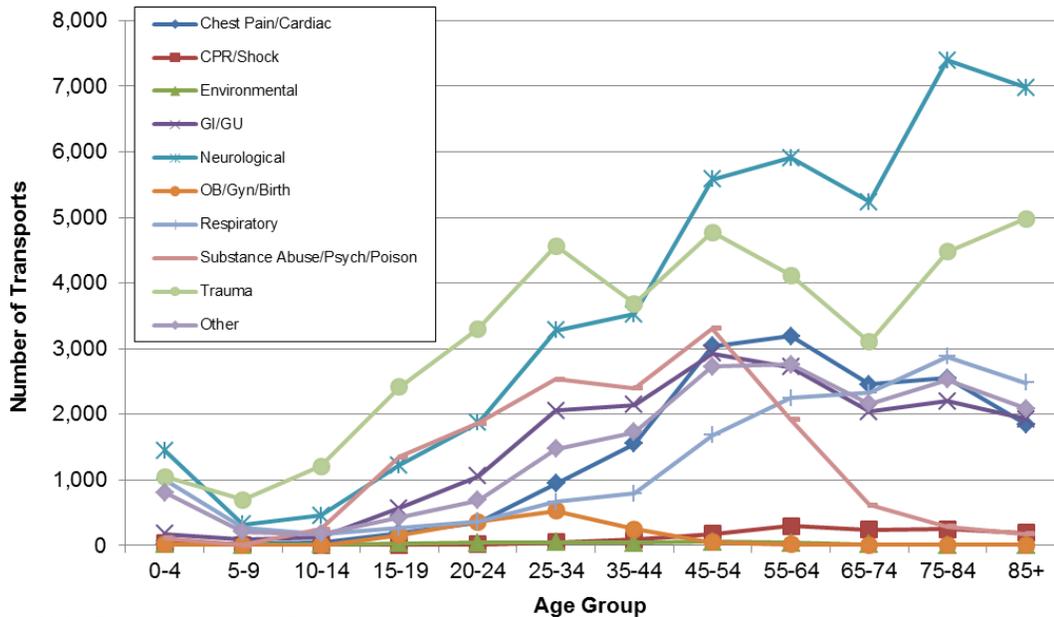
On average, the EMS system handled 461 ALS transports per day, with a total of 168,210 ALS calls transported in 2011. The most ALS transports occurred during the month of August, while the least number of ALS transports occurred during February.

In 2011, neurological related ALS transports were most common, followed closely by trauma related ALS transports.



Prehospital System Overview - Advanced Life Support Transports

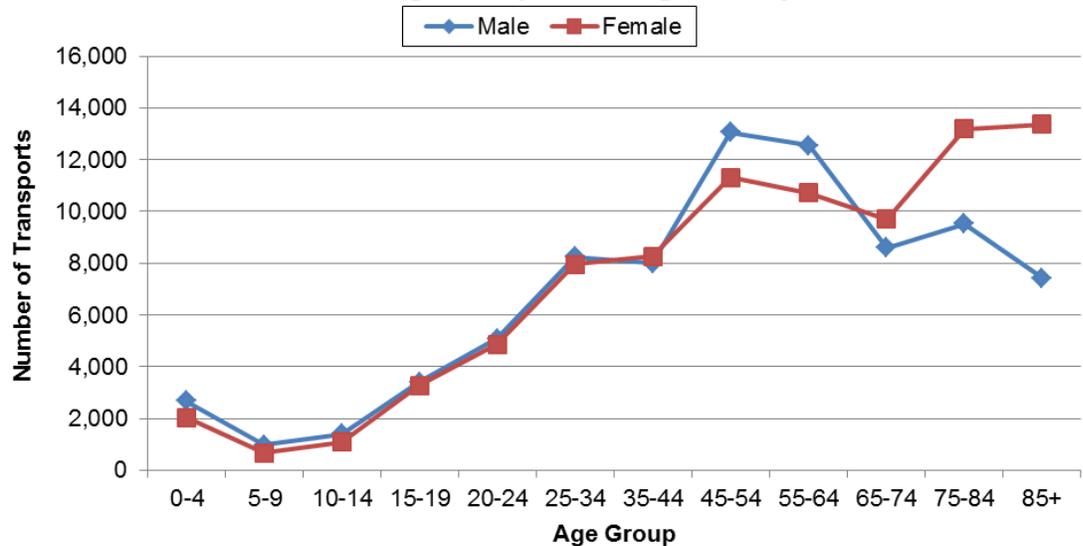
Number of Transported Advanced Life Support (ALS) Calls by Provider Impression Category and Age Group, San Diego County, 2011



Overall, the 45-54 year old age group had the highest number of transported ALS calls in 2011.

Overall, females were transported more often than males. Females age 85 years and older had the most transports, followed by females age 75-84 years old and males 45-54 years old.

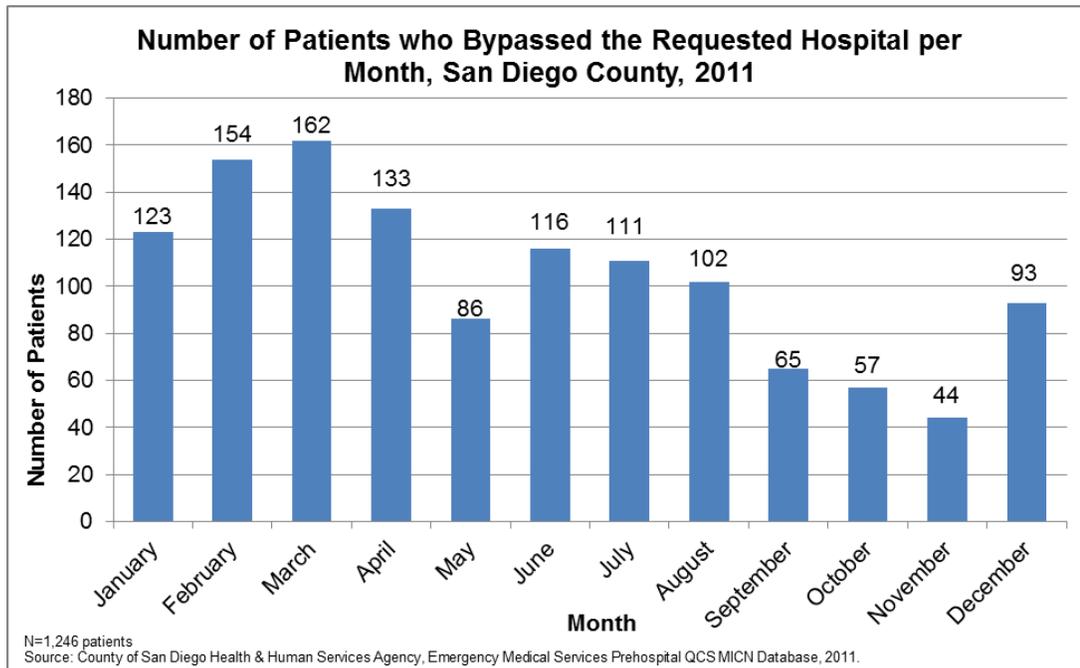
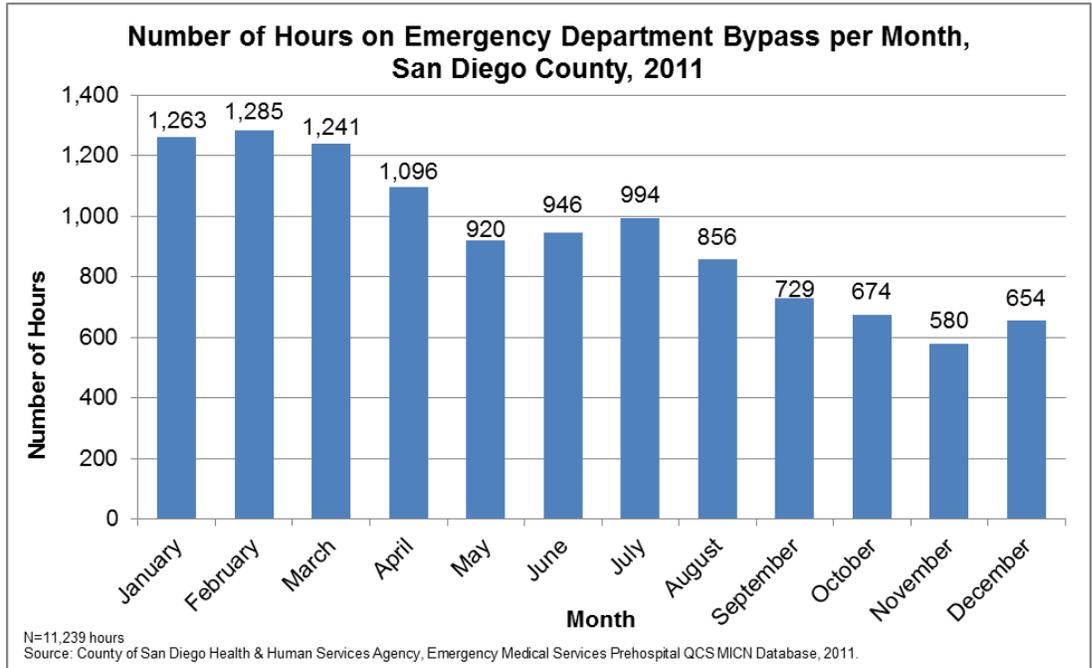
Number of Transported Advanced Life Support (ALS) Calls by Gender and Age Group, San Diego County, 2011



N=168,210; 867 calls did not have an age or gender reported.
 Note: ALS Calls are defined as a call with either an ALS calling agency or ALS transporting agency.
 Source: County of San Diego Health & Human Services Agency, Emergency Medical Services Prehospital QCS MICN Database, 2011.

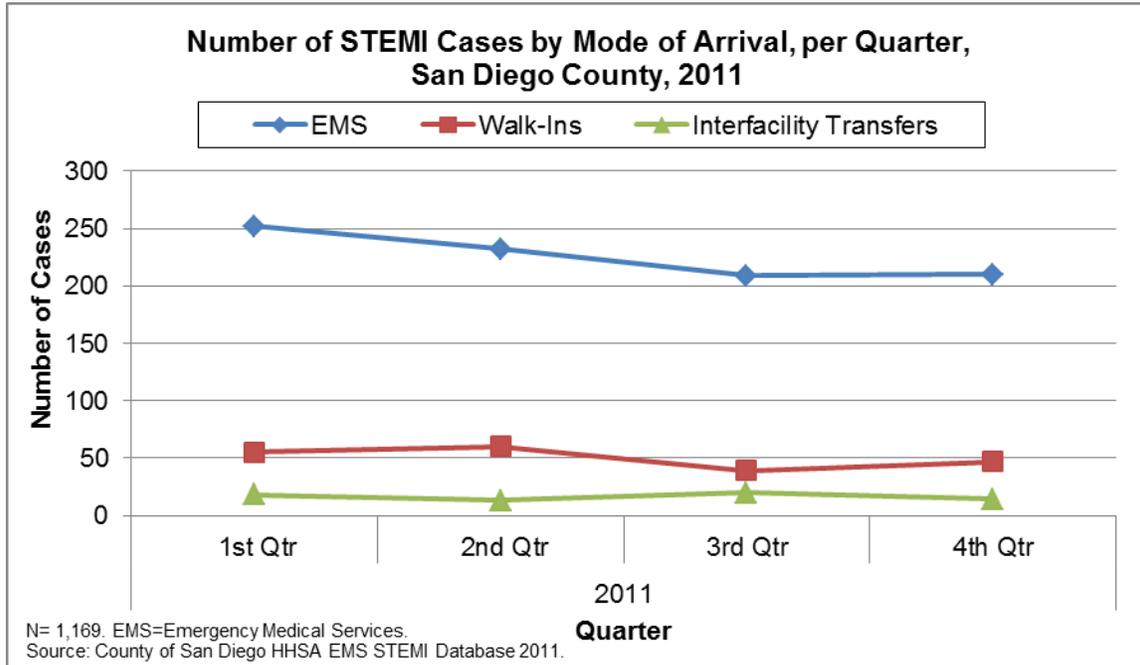
Prehospital System Overview - Emergency Department (ED) Bypass

Countywide, the average number of hours spent on ED bypass was 937 per month. In 2011, the most number of hours on ED bypass occurred during February, while the least number of hours on ED bypass occurred during November.

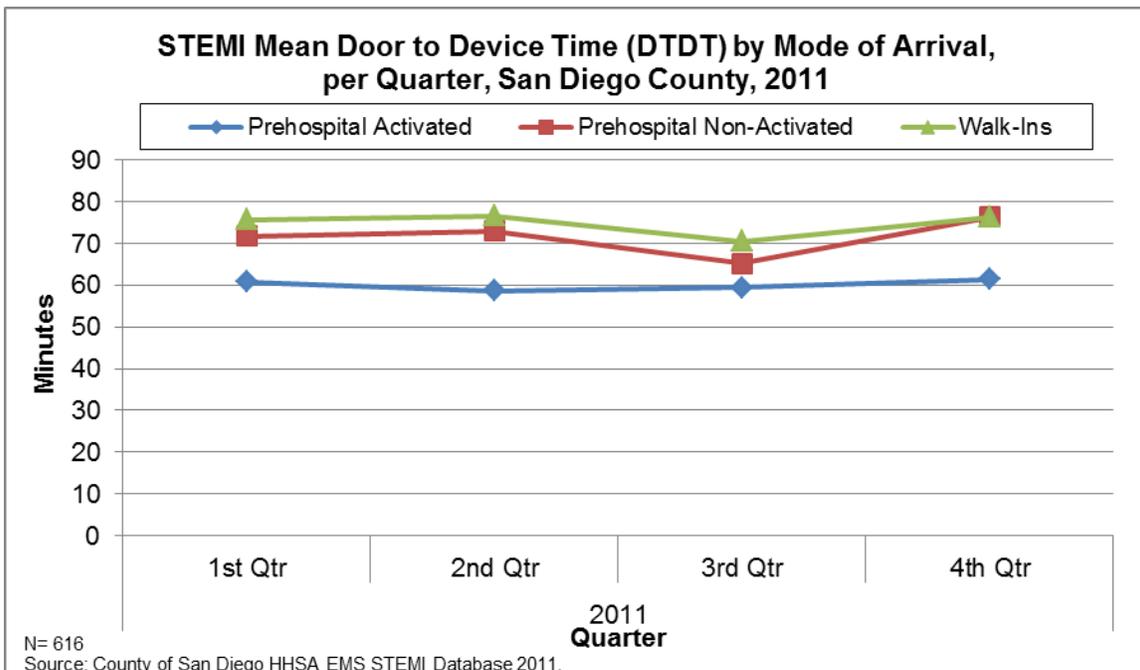


In 2011, the average number of patients who bypassed the requested hospital was 104 per month. This number was lowest in November and highest in March.

Prehospital System Overview - STEMI



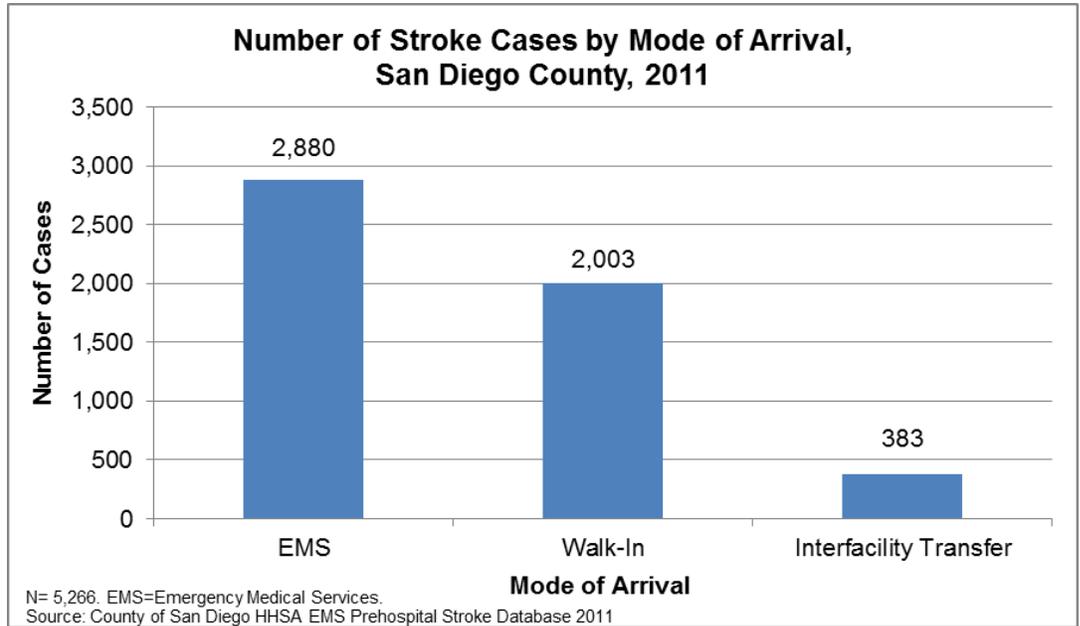
In 2011, there were 1,169 STEMI cases submitted by the STEMI Receiving Centers (SRCs). More than three fourths of the cases arrived via EMS.



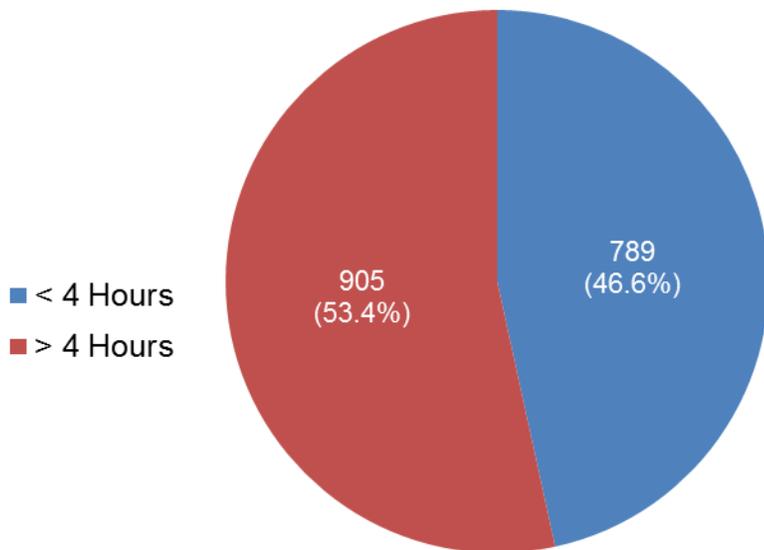
The overall mean DTDT was 60 minutes for STEMI cases that were activated by the prehospital system, 72 minutes for cases that were not activated, and 75 minutes for walk-in cases in 2011.

Prehospital System Overview - Stroke

In 2011, there were 5,266 stroke cases submitted by Stroke Receiving Centers. Of these, 54.7% arrived via EMS.



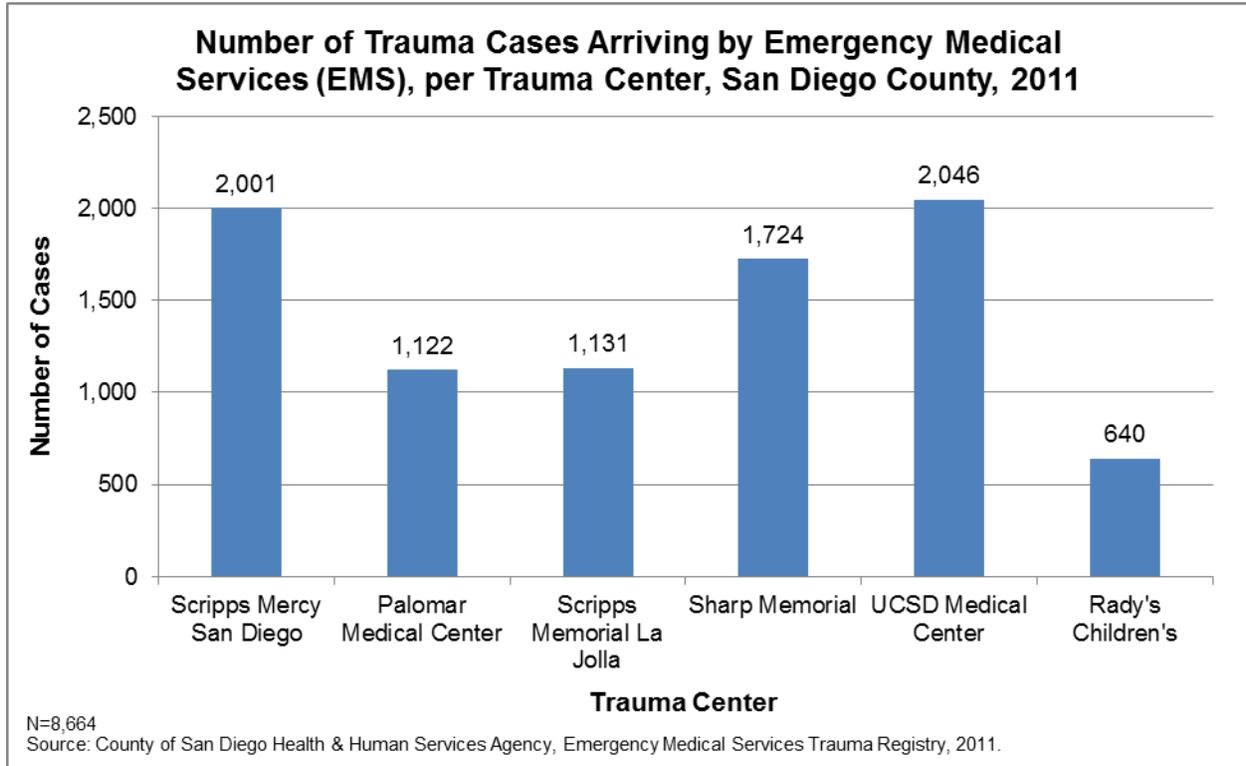
Number and Percent of Ischemic Stroke Cases Arriving by Emergency Medical Services (EMS), by Last Known Well to Arrival Time, San Diego County, 2011



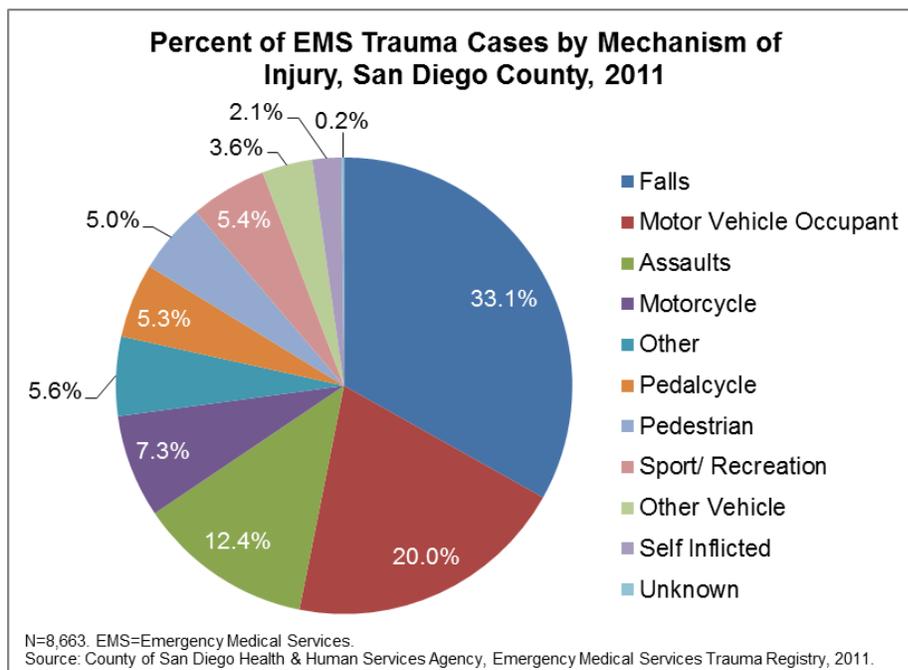
Of the cases that arrived by EMS and were diagnosed as Ischemic Strokes, 46.6% had a last known well to arrival time of less than four hours.

N= 1,694
Note: Cases with an unknown or negative last known well to arrival time were not included.
Source: County of San Diego HHSA EMS Prehospital Stroke Database 2011

Prehospital System Overview - Trauma



In 2011, there were 8,664 trauma patients transported to a Trauma Center by EMS. The distribution of trauma patients transported by EMS among the Trauma Centers ranged from 7.4% to 23.6%.



One third of the EMS trauma cases suffered injury from a fall, while 20.0% were injured while in a motor vehicle.

EMS SYSTEM REPORT

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES

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MISSION STATEMENT

Emergency Medical Services (EMS) ensures that emergency medical services, including 9-1-1 ambulance services, and trauma care services are of the highest quality. EMS also provides services in two ambulance districts and is involved in community education, prevention and research projects.

DID YOU KNOW?

A Branch of the County of San Diego Health and Human Services Agency, Emergency Medical Services (EMS) coordinates the activities of prehospital, trauma center and specialty service center providers for all residents and visitors of San Diego. The Branch has been designated as the County's "local EMS agency" (LEMSA) pursuant of the Health and Safety Code, and serves as the primary regulatory agency for the local EMS system. In addition, EMS has twelve different programs ranging from Disaster Medical Services to Automated External Defibrillators (AEDs).

EMS Programs

- County Service Area Administration
- Base Hospital and Specialty Care Systems
- Prehospital System Operations
- Prehospital System Emergency Medical Personnel
- Automated External Defibrillator (AED) Program
- Sexual Assault Response Team Program
- Epidemiology and Surveillance
- Community Health Statistics
- Information Communications, Systems and Technologies
- Disaster Medical Services
- Health Emergency Preparedness
- Community Health Preparedness