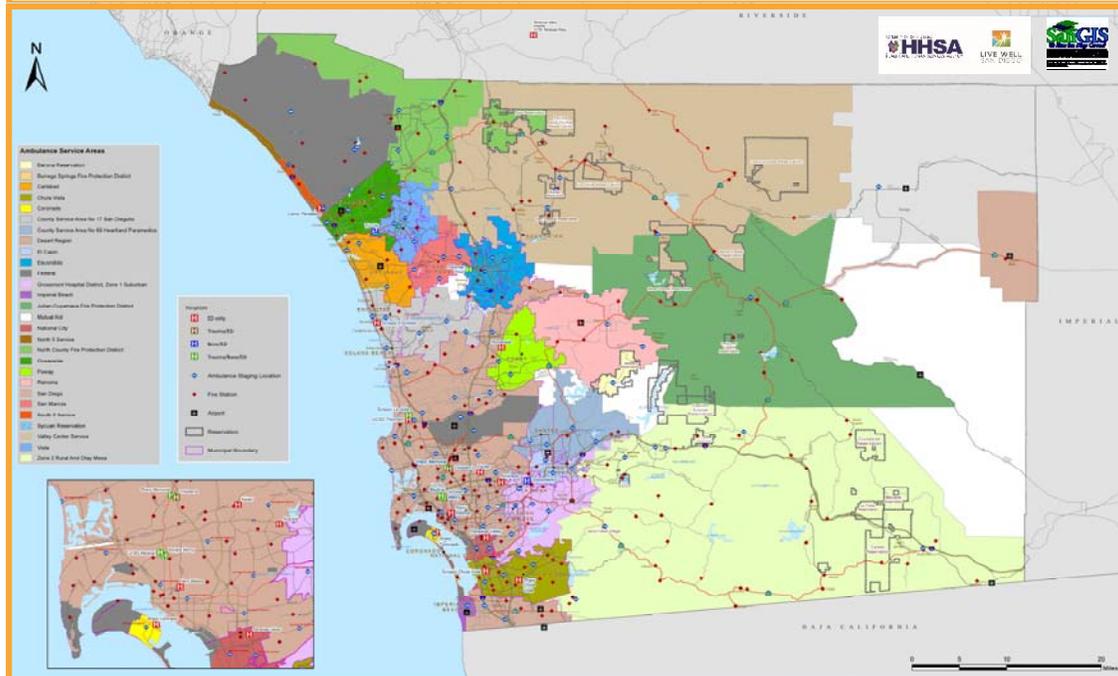


COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES

2015 EMERGENCY MEDICAL SERVICES SYSTEM REPORT

San Diego County Ambulance Exclusive Operating Areas and Hospitals
with an Emergency Department, 2015



San Diego County Facts

Population - 3,194,362

Square Miles - Over 4,200

Agencies

- ◇ Advanced Life Support (ALS) - 36
- ◇ Basic Life Support (BLS) - 16
- ◇ ALS and BLS - 4
- ◇ Air Ambulance - 2

Hospitals

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

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES

2015 EMERGENCY MEDICAL SERVICES SYSTEM REPORT

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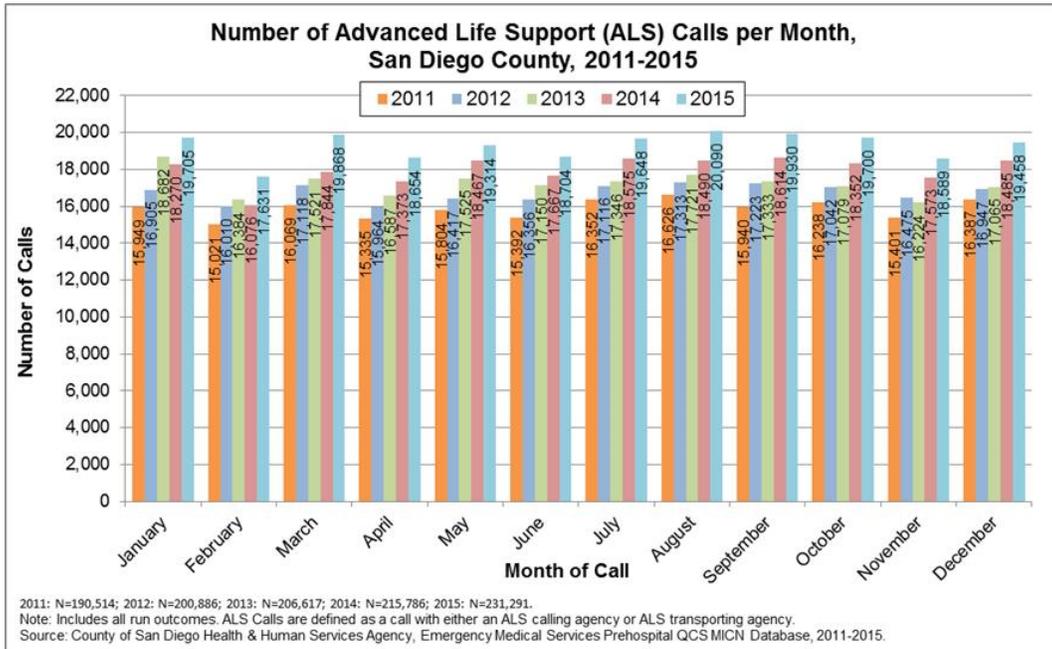
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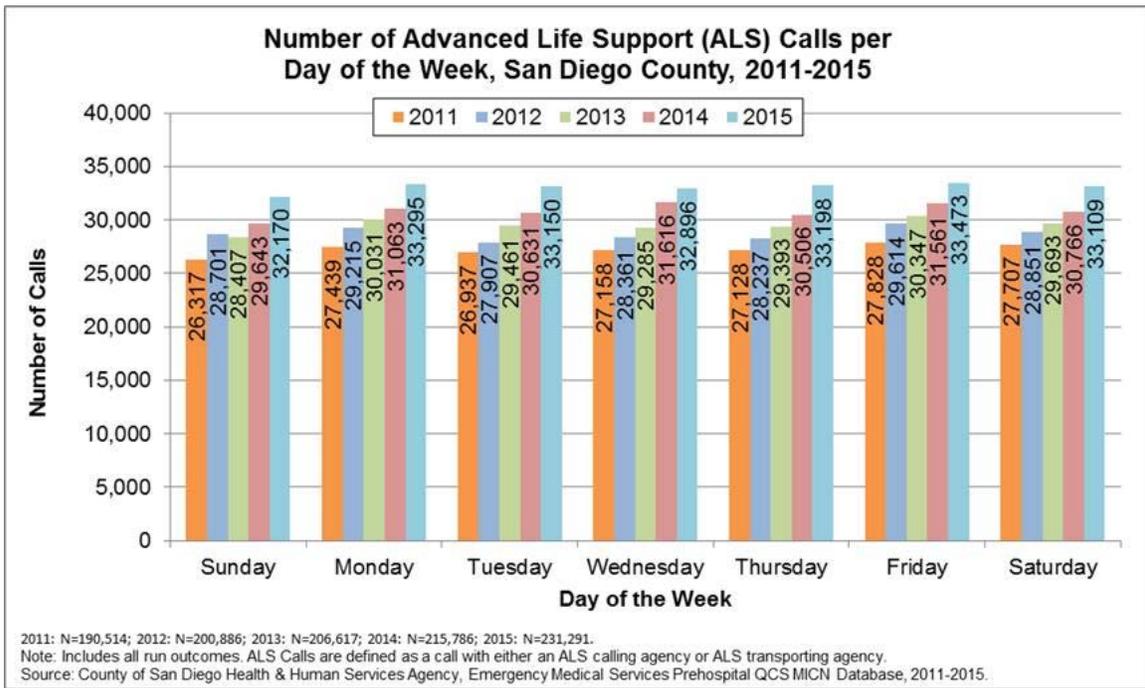
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Prehospital System Overview - Advanced Life Support (ALS) Calls



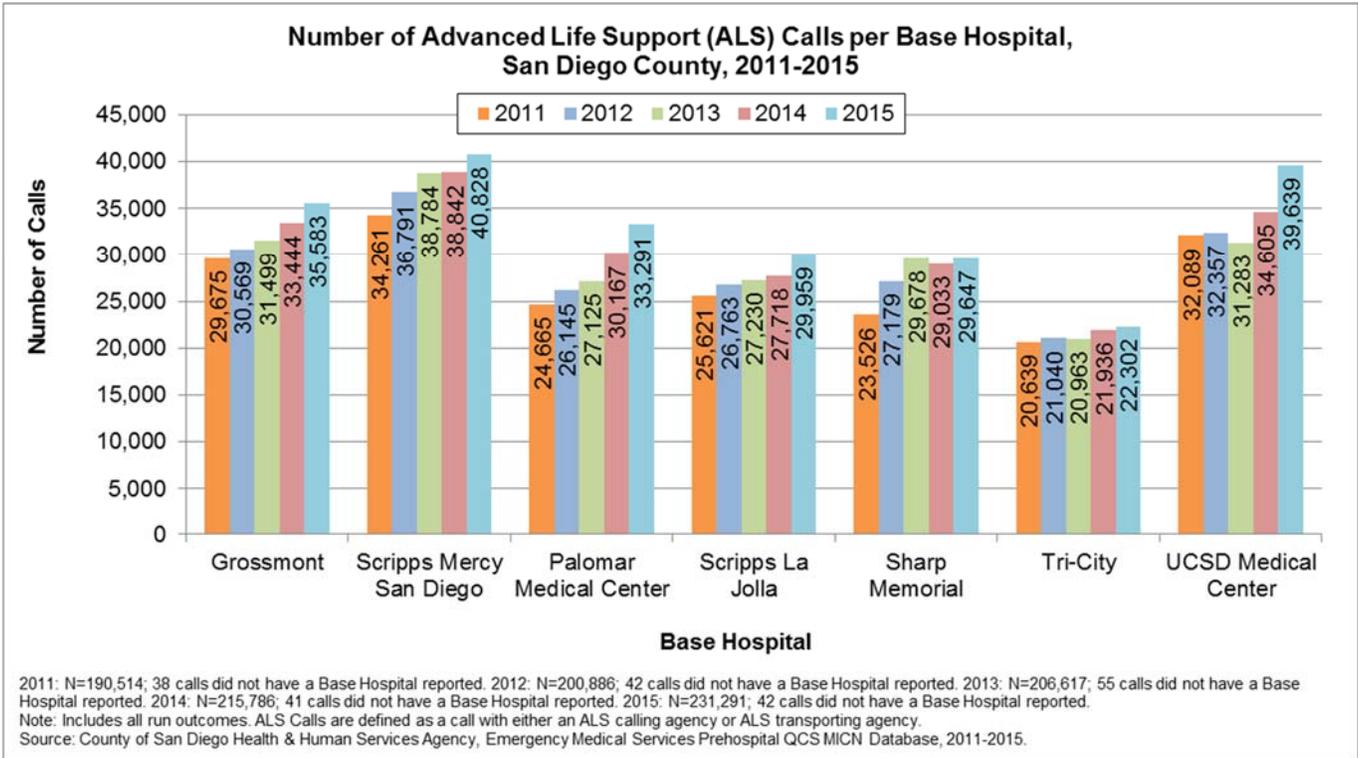
In 2015, there were 231,291 ALS calls made in San Diego County; a 21.4% increase (40,777 more calls) from 2011 and 15,505 more calls than in 2014. On average, there were 19,275 ALS calls per month, and 634 calls per day. The most ALS calls occurred in August, while the least occurred in February.



In 2015, ALS calls occurred most often on Friday (33,473), accounting for 14.5% of all calls. Calls occurred least often on Sunday (32,170, 13.9%).

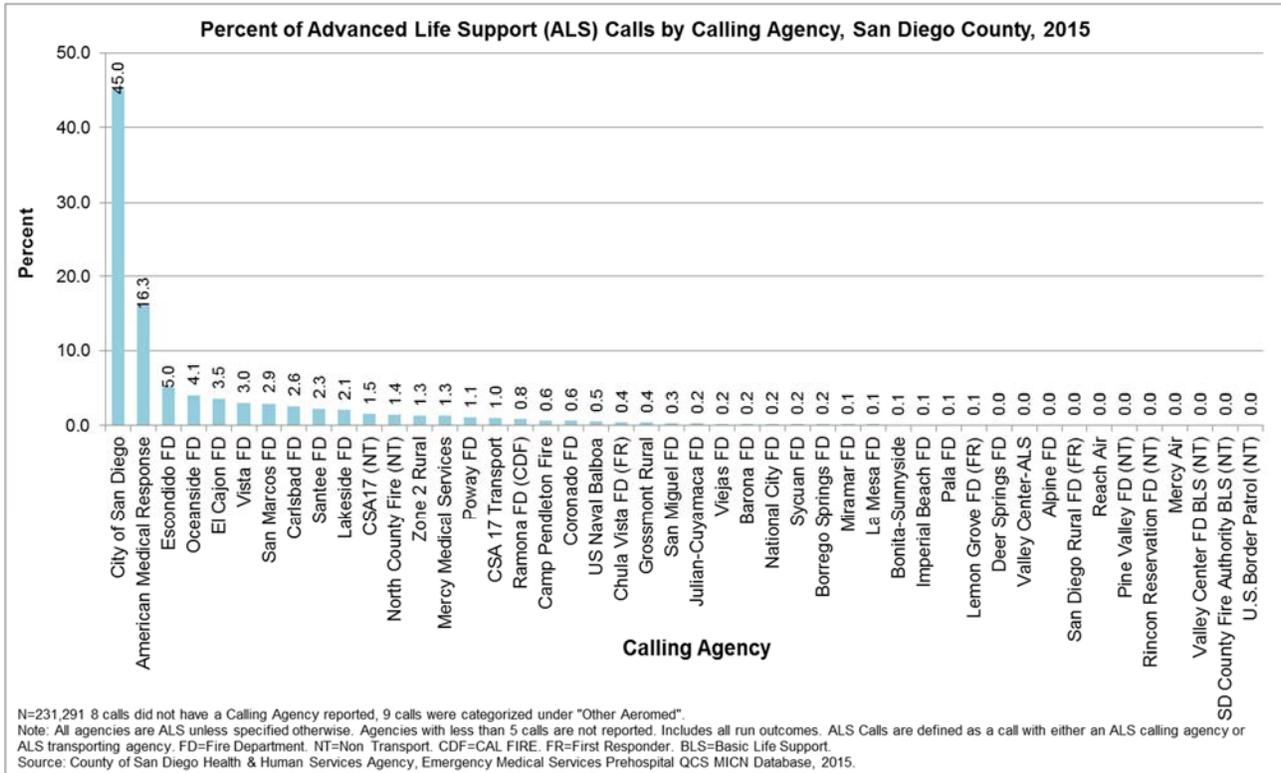
Prehospital System Overview - Advanced Life Support (ALS) Calls

In 2015, more ALS calls were answered by a San Diego County Base Hospital than in any of the previous years. Since 2011, the increase in the number of calls per Base Hospital ranged from 8.1% to 35.0%.

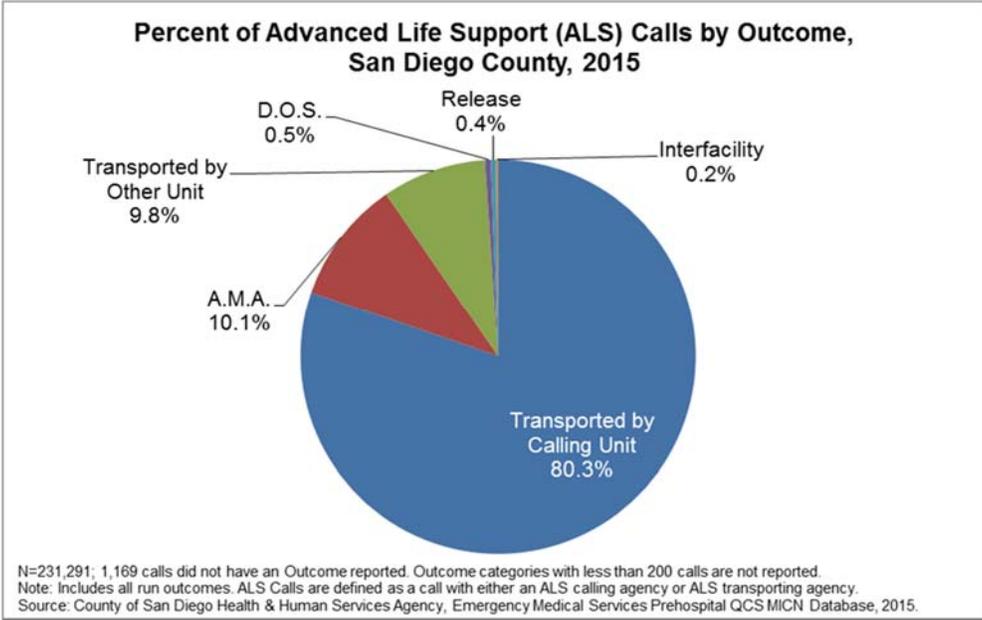


The distribution of ALS calls among the San Diego County Base Hospitals ranged from 9.6% to 17.7%, in 2015. The distribution of calls has remained relatively consistent each year since 2011.

Prehospital System Overview - Advanced Life Support (ALS) Calls



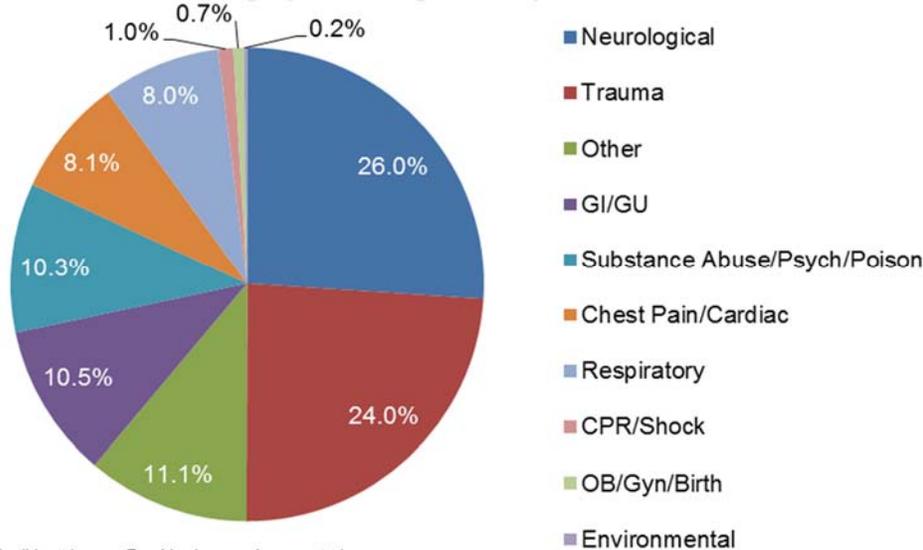
In 2015, the distribution of ALS calls among calling agencies ranged from 45.0% to less than 1.0%. This has remained consistent since 2011.



In 2015, ALS call outcomes were nearly identical to previous years. In 2015, 80% of ALS calls resulted in a transport to an emergency department. Ten percent of ALS calls resulted in the patient refusing transport (A.M.A.).

Prehospital System Overview - Advanced Life Support (ALS) Calls

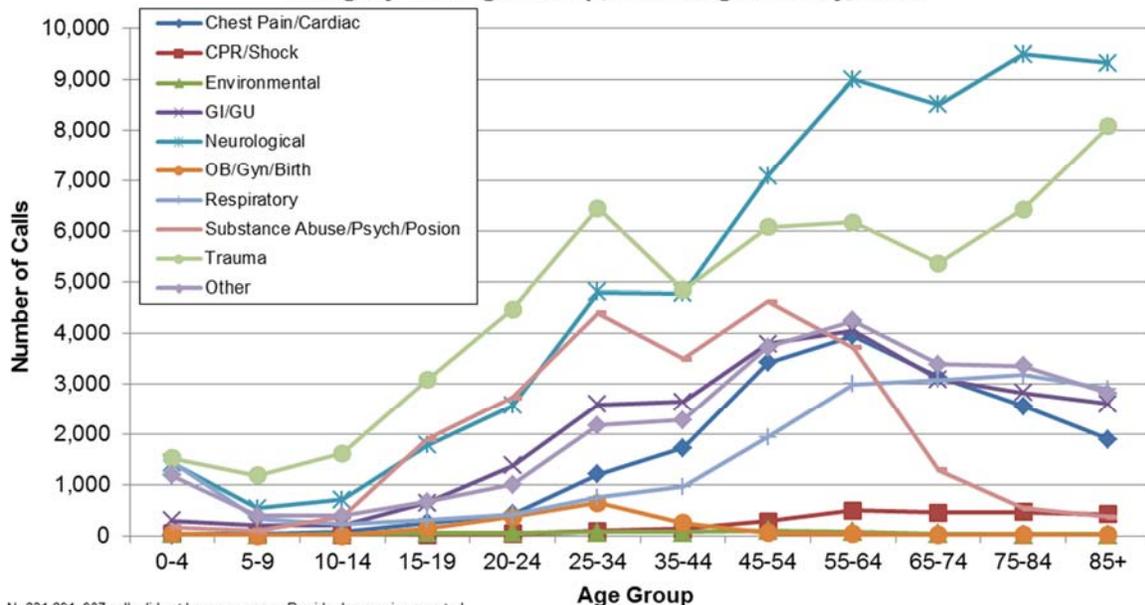
Percent of Advanced Life Support (ALS) Calls by Provider Impression Category, San Diego County, 2015



In 2015, one in four ALS calls were neurological related, and another 24.0% were trauma related.

N=231,291. 600 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, 2015.

Number of Advanced Life Support (ALS) Calls by Provider Impression Category and Age Group, San Diego County, 2015

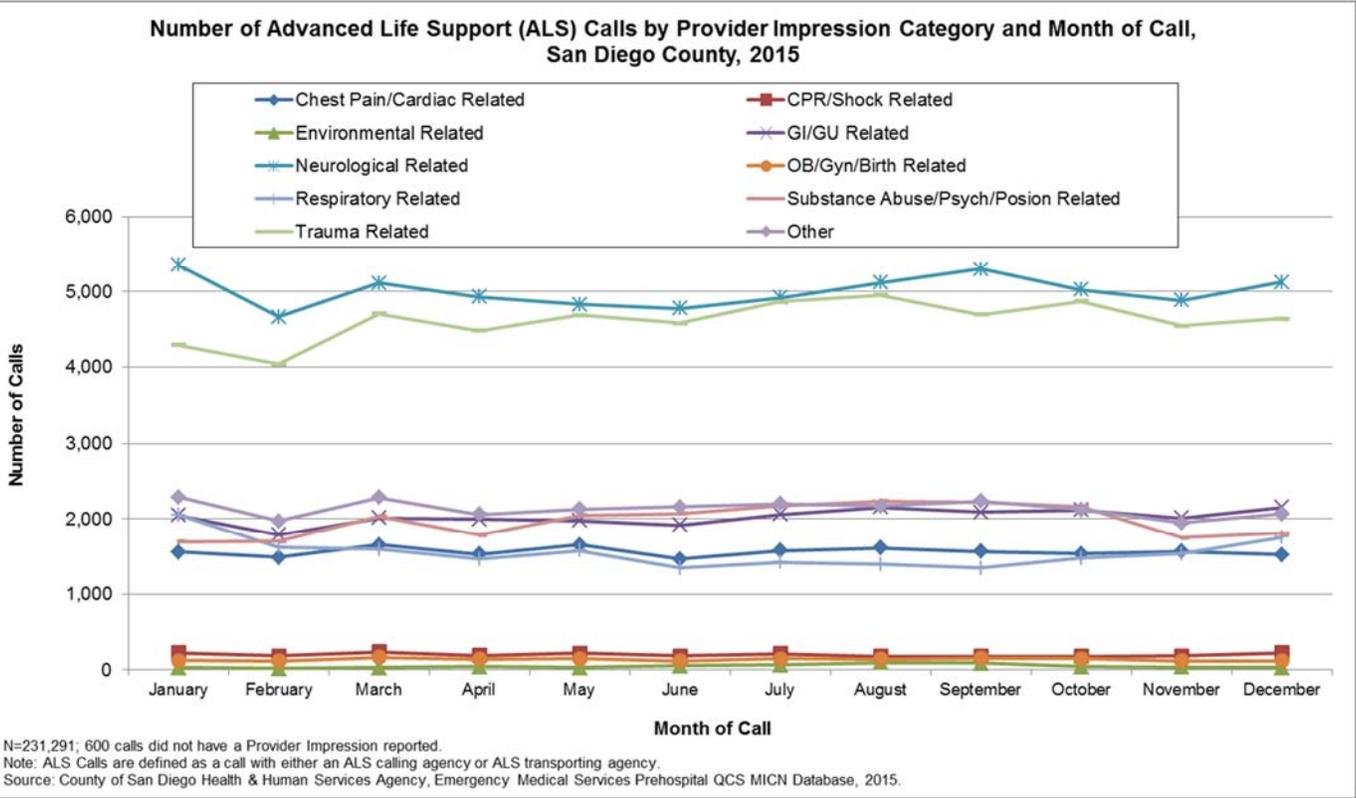


N=231,291; 907 calls did not have an age or a Provider Impression reported.
 Note: ALS Calls are defined as a call with either an ALS calling agency or ALS transporting agency.
 Source: County of San Diego Health & Human Services Agency, Emergency Medical Services Prehospital QCS MICN Database, 2015.

In 2015, there were 799 more trauma related ALS calls among the 85 year old and over age group than in 2014. This was the largest increase among age group and Provider Impression (PI) categories between 2014 to 2015.

Prehospital System Overview - Advanced Life Support (ALS) Calls

In 2015, the Provider Impression categories with the most ALS calls each month were neurological and trauma related. Each month, these two categories accounted for approximately half of all ALS calls.

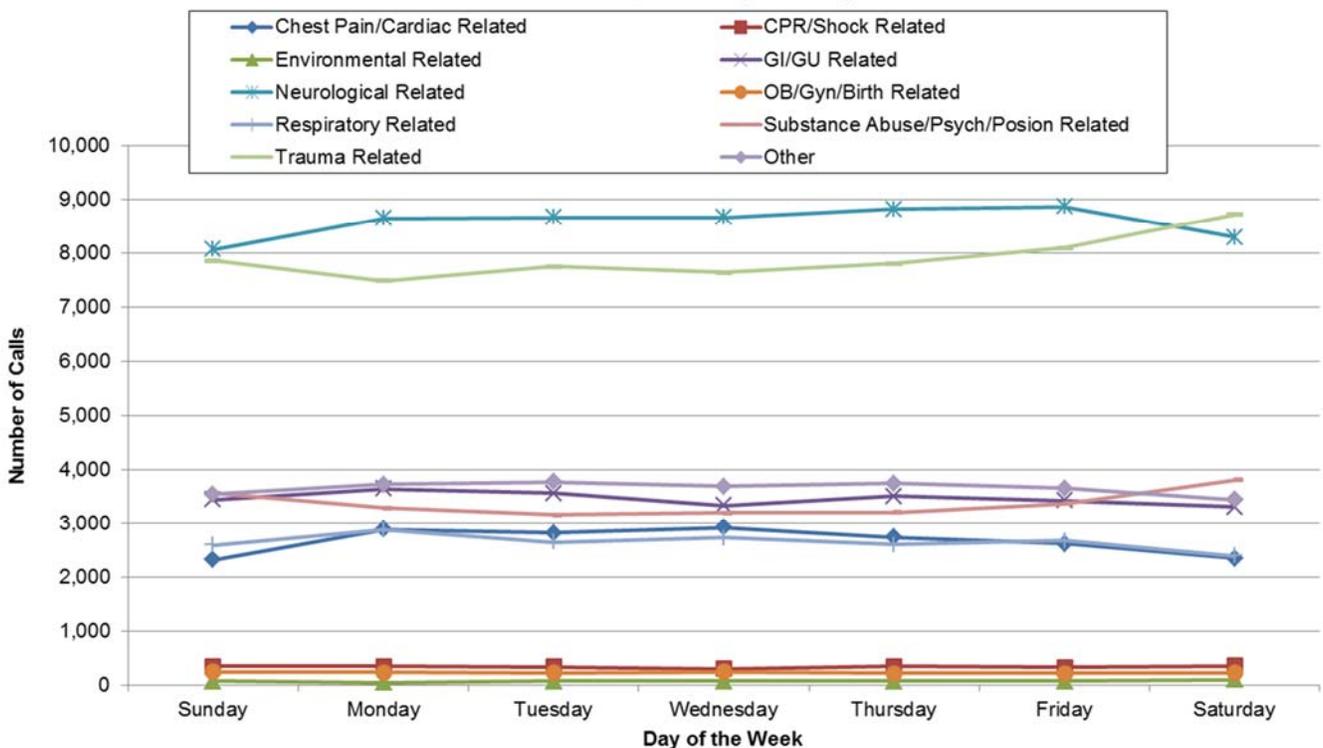


In 2015, the Provider Impression category with the most calls in a single month was the neurological related category with 5,356 calls in January. Nearly the same number of calls occurred in September with a neurological related PI (5,305). The largest increase in call volume occurred among trauma related calls in March, which increased by 478 calls, or 11.3%, from 2014. The second largest increase occurred in January among neurological-related with 471 more calls (9.6% increase).

Prehospital System Overview - Advanced Life Support (ALS) Calls

In 2015, the PI category with the largest call volume was neurological related with 8,872 calls on Fridays, followed closely by neurological related calls on Thursdays. The PI category with the largest increase was trauma related, with 719 more calls (10.1% increase) on Thursdays than in 2014.

Number of Advanced Life Support (ALS) Calls by Provider Impression Category and Day of the Week of the Call, San Diego County, 2015



N=231,291; 600 calls did not have 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, 2015.

Prehospital System Overview - Advanced Life Support (ALS) Calls

Leading Provider Impression Categories by Age Group in San Diego County, 2015				
Age Group				
0-14	15-24	25-64	65+	Total
Trauma 4,325	Trauma 7,545	Neurological 25,683	Neurological 27,341	Neurological 60,018
Neurological 2,651	Substance Abuse/ Psych/Poison 4,624	Trauma 23,549	Trauma 19,887	Trauma 55,306
Respiratory 2,021	Neurological 4,343	Substance Abuse/ Psych/Poison 16,222	Other 9,561	Other 25,595
Other 1,949	GI/GU 2,002	GI/GU 13,086	Respiratory 9,147	GI/GU 24,258
GI/GU 667	Other 1,655	Other 12,430	GI/GU 8,503	Substance Abuse/ Psych/Poison 23,622
Substance Abuse/ Psych/Poison 598	Respiratory 706	Chest Pain/Cardiac 10,291	Chest Pain/Cardiac 7,587	Chest Pain/Cardiac 18,649
Chest Pain/Cardiac 120	Chest Pain/Cardiac 651	Respiratory 6,635	Substance Abuse/ Psych/Poison 2,178	Respiratory 18,509
Environmental 72	OB/Gyn/Birth 500	OB/Gyn/Birth 968	CPR/Shock 1,312	CPR/Shock 2,357
CPR/Shock 43	Environmental 105	CPR/Shock 965	Environmental 69	OB/Gyn/Birth 1,537
OB/Gyn/Birth 32	CPR/Shock 37	Environmental 287	OB/Gyn/Birth 37	Environmental 533

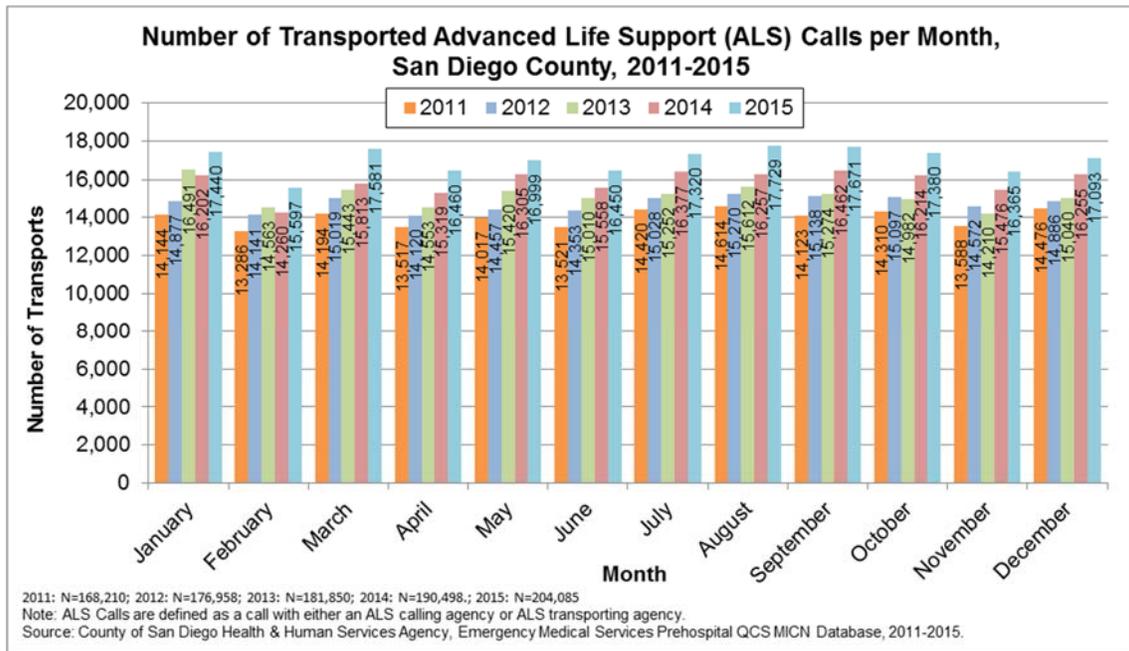
N=231,291; 907 calls did not have an age or a Provider Impression reported.

Note: ALS Calls are defined as a call with either an ALS calling agency or ALS transporting agency.

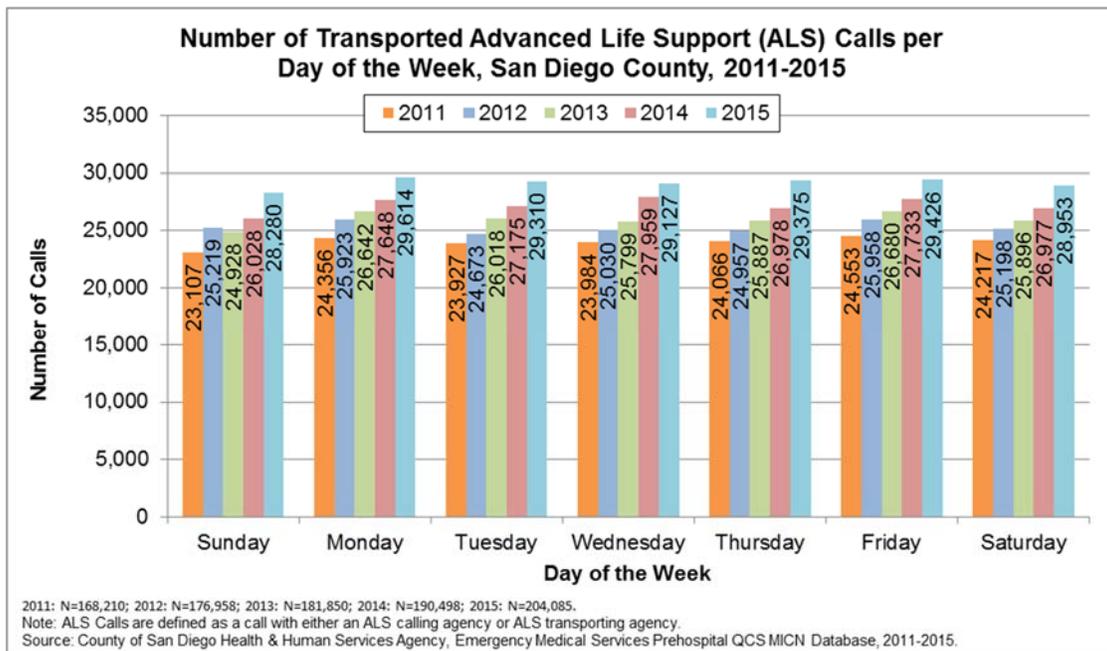
Source: County of San Diego Health & Human Services Agency, Emergency Medical Services Prehospital QCS MICN Database, 2015.

In 2015, overall, there were 3,610 more neurological related ALS calls than in 2014, and it remained the leading Provider Impression (PI) category. Neurological related calls among the 65 years and older age group had the largest increase (2,025, 8.0%) from 2014 to 2015.

Prehospital System Overview - Advanced Life Support (ALS) Transports

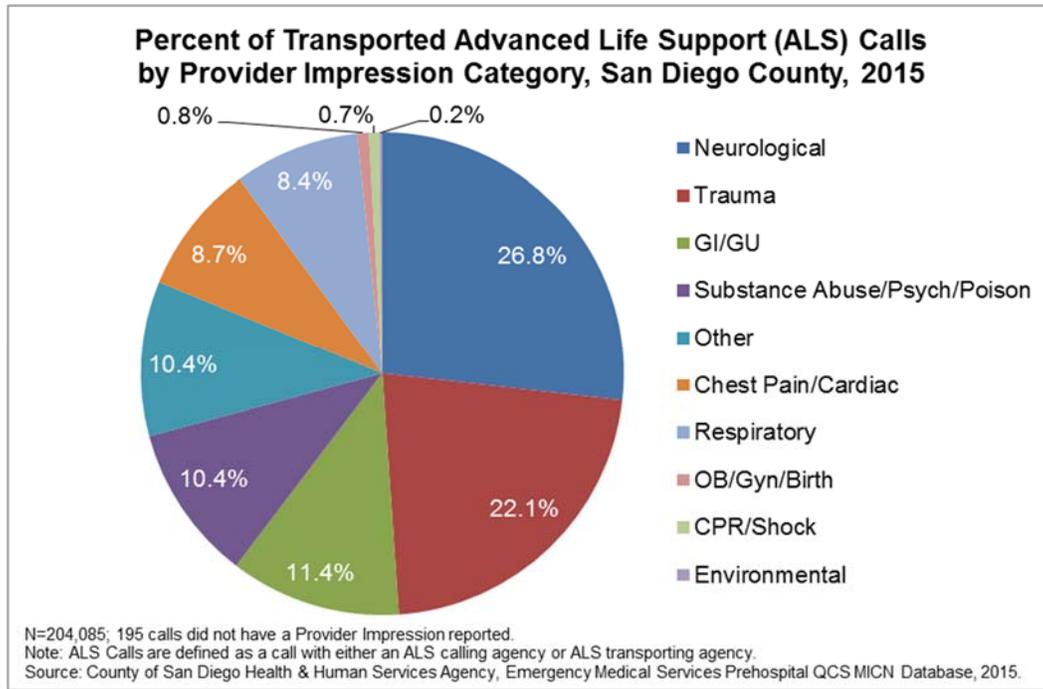


In 2015, there were 204,085 ALS calls that were transported in San Diego County. This accounts for a 21.3% increase (35,875 more transports) in ALS transports since 2011. The average number of ALS transports per day in 2015 was 559.



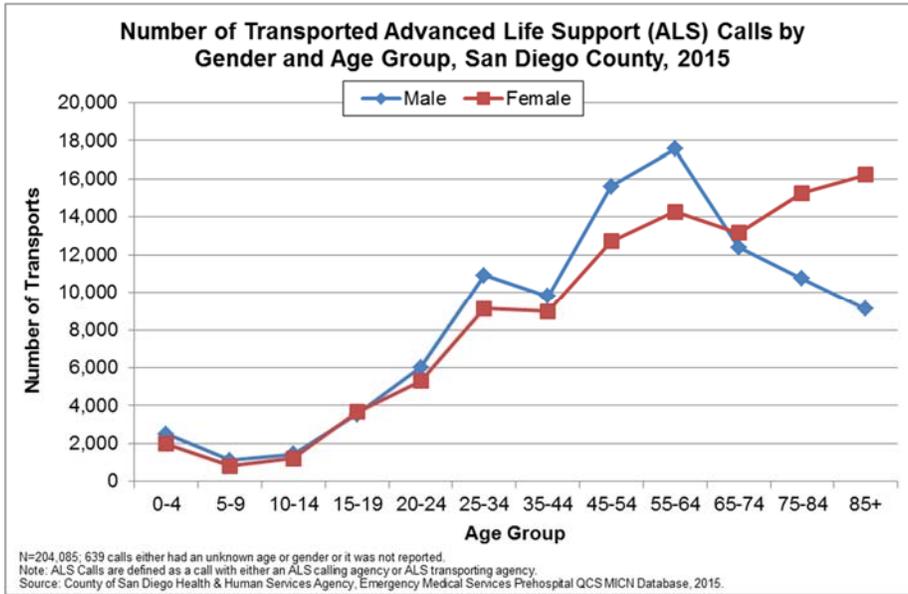
In 2015, ALS transports occurred most frequently on Mondays and least often on Sundays.

Prehospital System Overview - Advanced Life Support (ALS) Transports



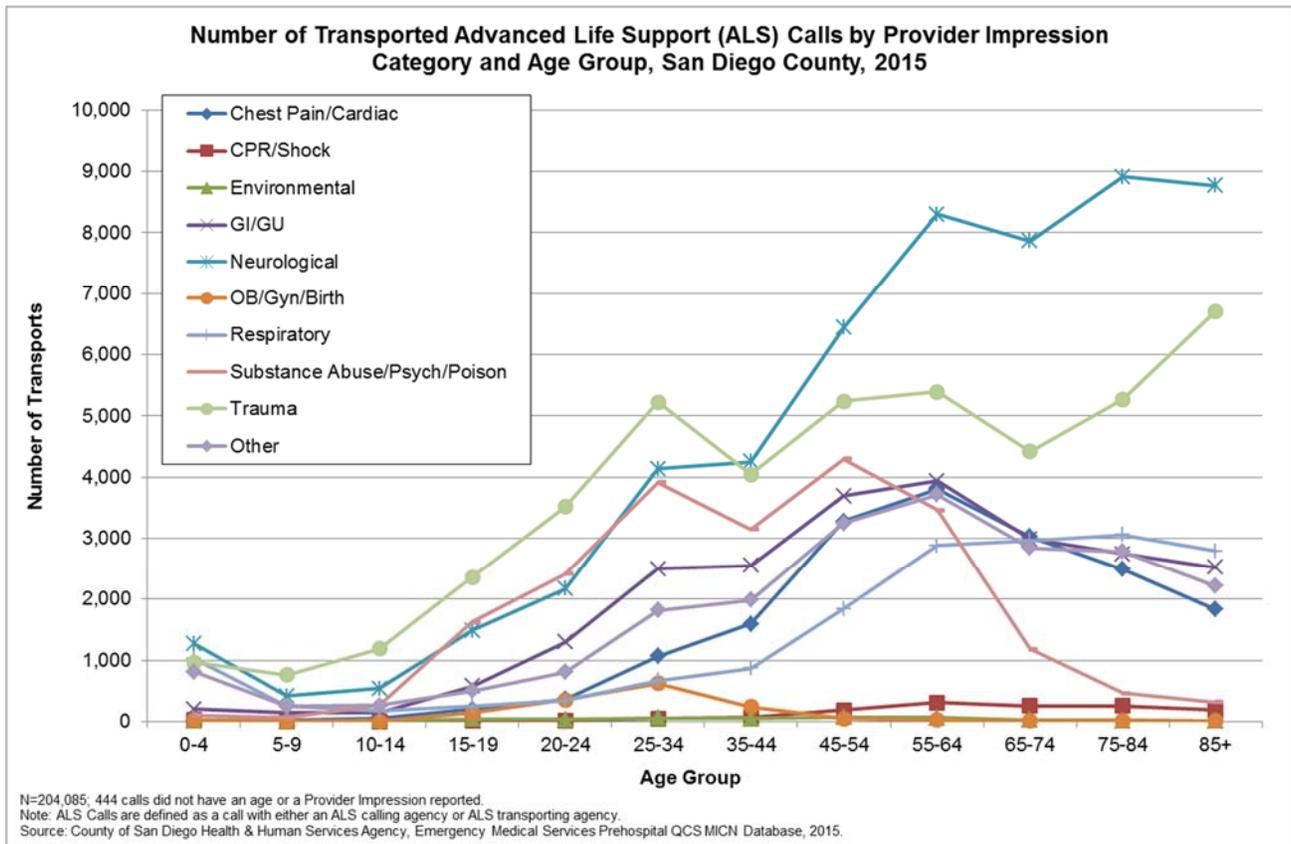
Transport of neurological related calls occurred more often than any other Provider Impression (PI) category. In 2015, there were 54,593 transports with a neurological related PI, accounting for 26.8% of all transports. Trauma related transports were the second most common, accounting for 22.1% of all transports in 2015. The largest increase in transports among the PI categories was seen in the number of neurological related transports, which increased by 6.6% (3,378 more transports) from 2014. The second largest increase in the number of transports was among substance abuse/psychological/poisoning related transports, which increased by 2,404 from the previous year (12.7% increase).

Prehospital System Overview - Advanced Life Support (ALS) Transports



In 2015, there were 1,979 more ALS transports among 55-64 year old males than there were in 2014. This was a 12.7% increase from 2014. Similarly, there were 1,447 more transports among 65-74 year old males compared to the previous year; an 13.2% increase from 2014.

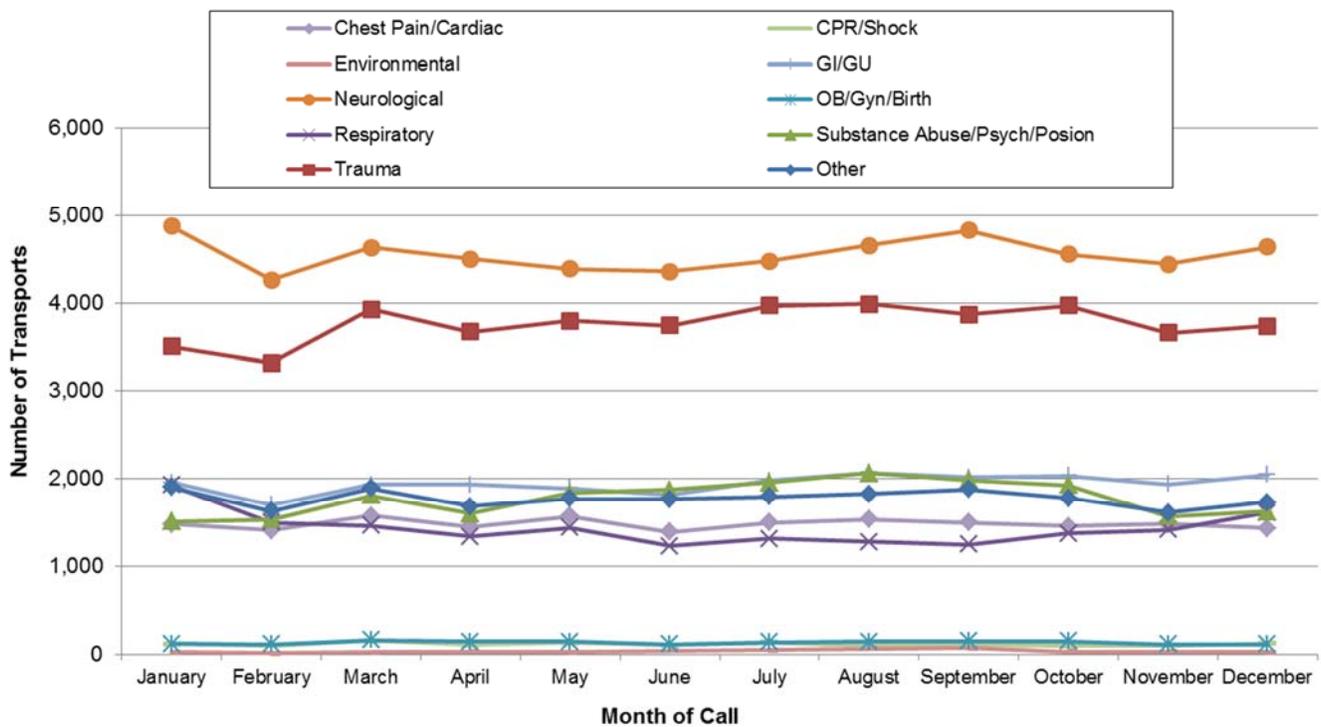
Similar to ALS calls, the largest increase in ALS transports occurred among the neurological related transports for the 65-74 year old age group. There was an increase of 729 (10.2% increase) transports among this group from 2014 to 2015.



Prehospital System Overview - Advanced Life Support (ALS) Transports

As in 2014, the neurological related category of Provider Impressions (PIs) had more ALS transports each month than any other PI category, followed by trauma related ALS transports in 2015.

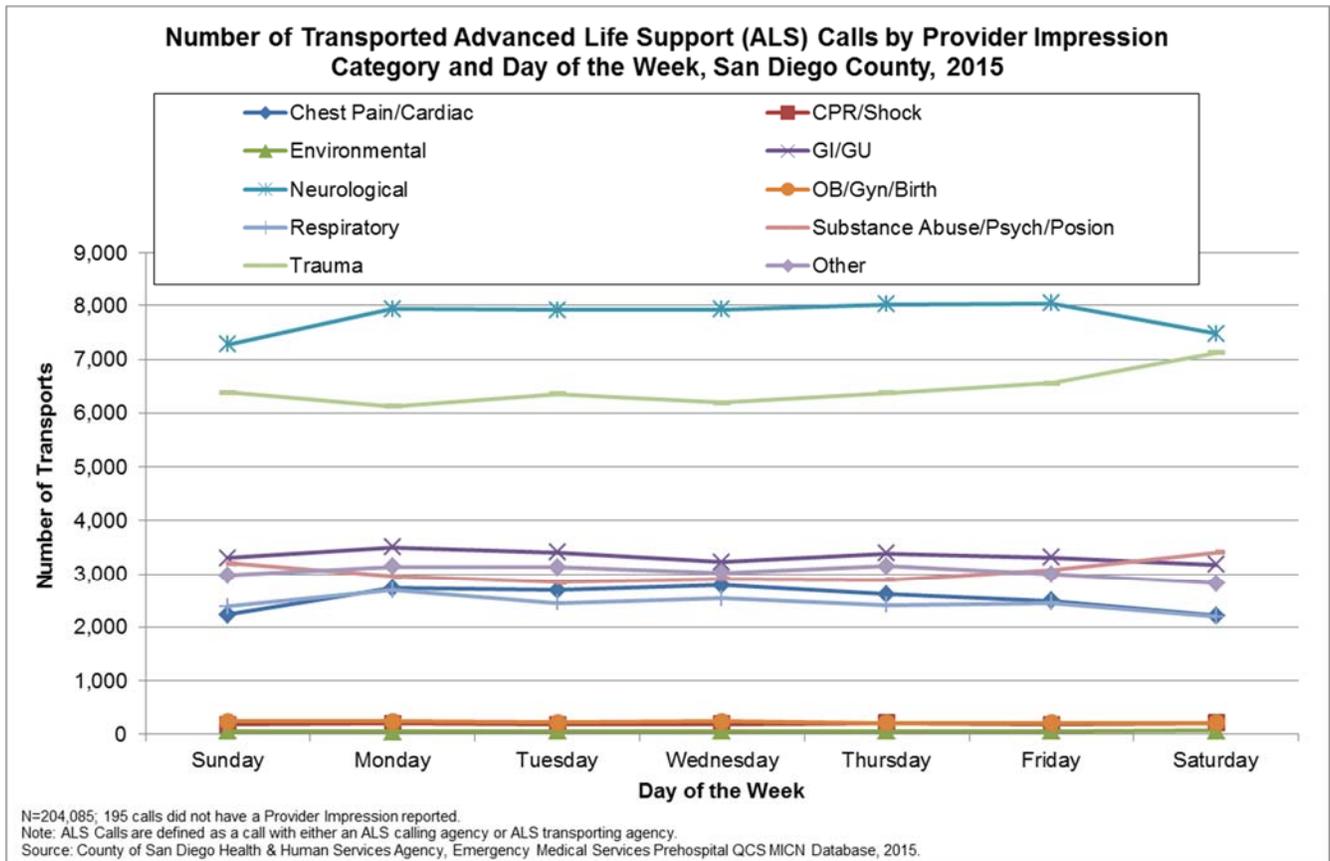
Number of Transported Advanced Life Support (ALS) Calls by Provider Impression Category and Month of Call, San Diego County, 2015



N=204,085; 195 calls did not have 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, 2015.

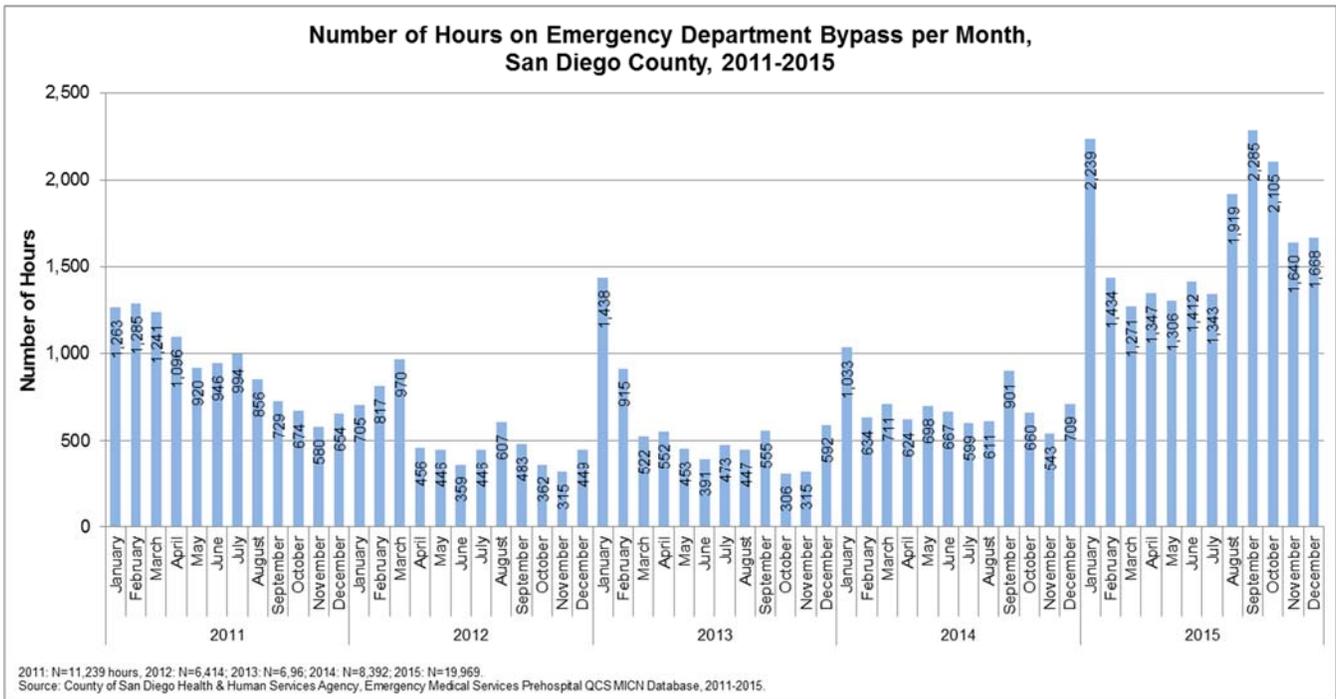
The most transports of any PI category occurred in January, with 4,873 neurological related ALS transports. This was an increase of 441 transports compared to 2014, which was the largest increase from 2014 to 2015 for any PI category and month. The second largest increase was in the number of neurological related ALS transports in April, with 434 more transports in 2015 than 2014.

Prehospital System Overview - Advanced Life Support (ALS) Transports

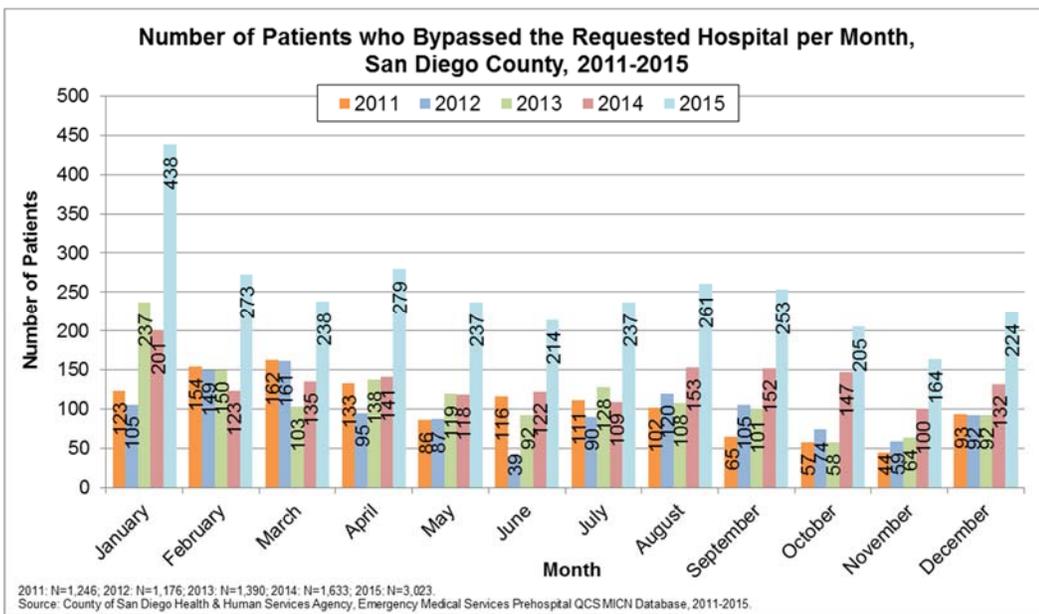


Similar to ALS calls, in 2015 ALS transports with a neurological related PI occurred most often on Thursdays with 672 (9.1%) more calls in 2015 than 2014, followed closely by Fridays, with 616 more (9.6%) more transports than the previous year.

Prehospital System Overview - Emergency Department (ED) Bypass

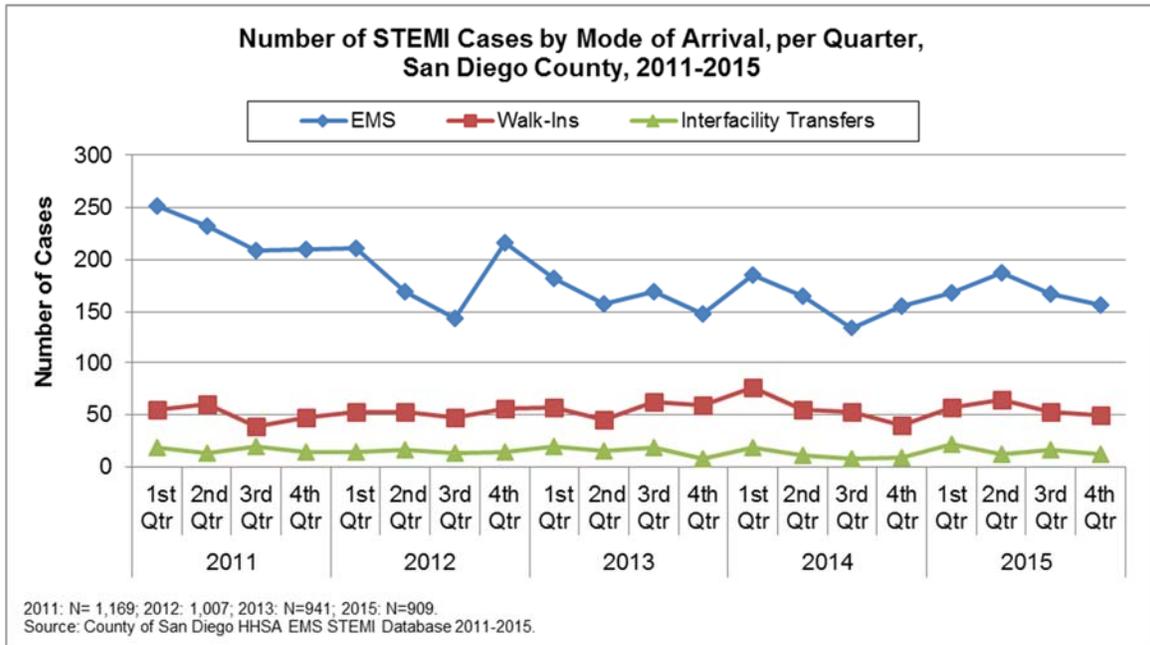


In 2015, the most number of hours spent on ED bypass occurred in September, while the least occurred in March. The average number of hours on ED Bypass per month in 2015 was 1,664.0 compared to 699.3 in 2014. The total number of hours on ED Bypass per year increased by 138.0% from 2014 to 2015.

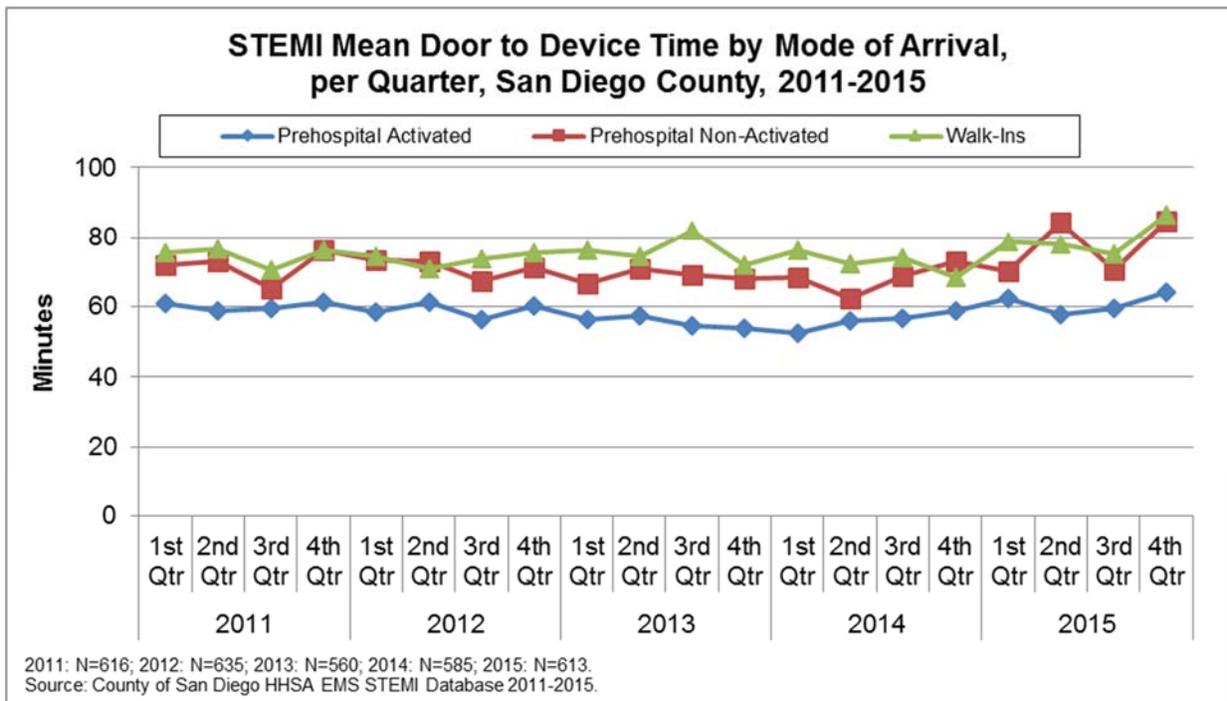


In 2015, 3,023 patients bypassed the requested hospital; an increase of 85.1% from 2014. On average, there were 252 patients bypassed each month in 2015, compared to 136 in 2014.

Specialty System Overview - STEMI

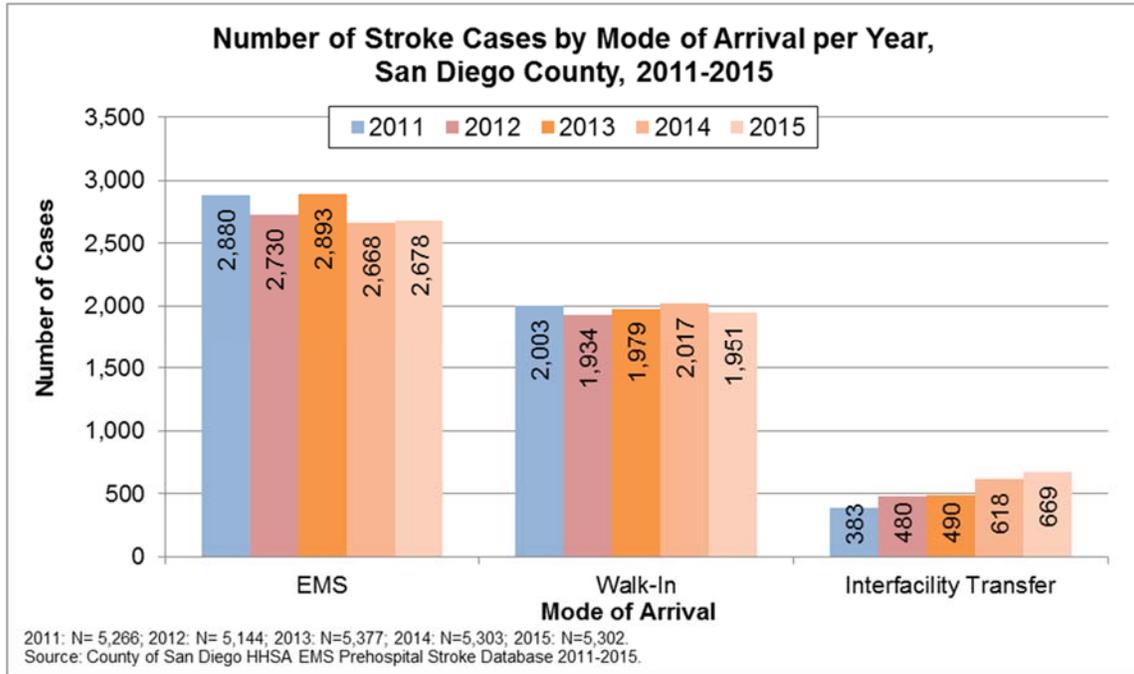


In 2015, 965 STEMI cases were treated at a STEMI receiving center. Of these, 70.4% of cases arrived via Emergency Medical Services (EMS).

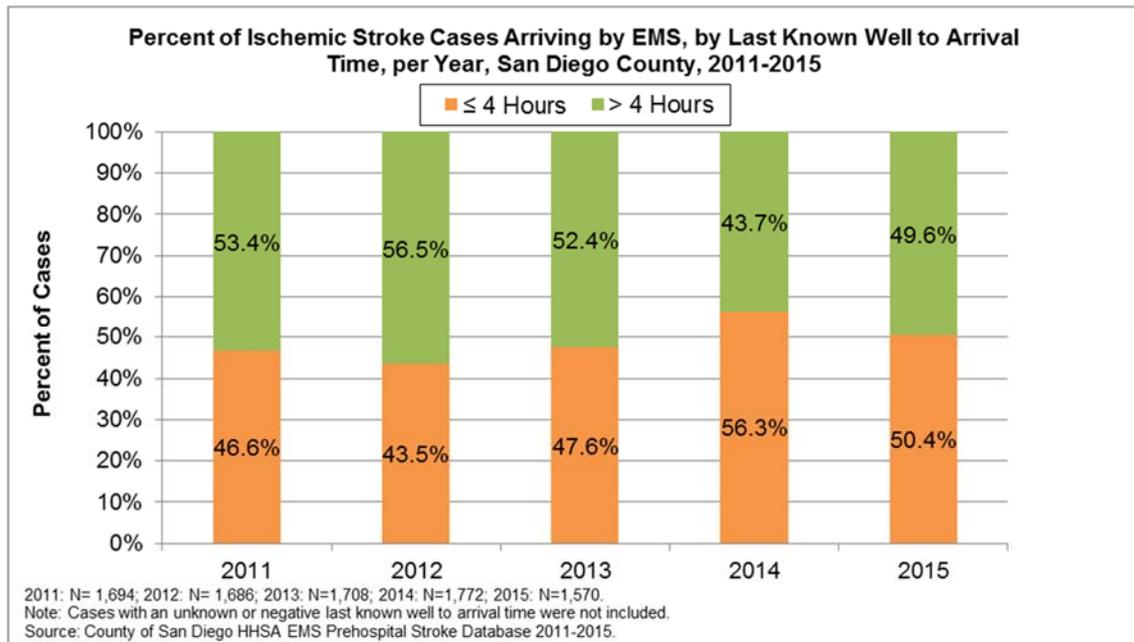


In 2015, the mean door to device time (DTDT) was 60.8 minutes for STEMI cases activated by the prehospital system, 77.6 minutes for cases not activated, and 79.4 minutes for walk-in cases. Regardless of mode of arrival, the DTD was longer in 2015 than in previous years.

Specialty System Overview - Stroke

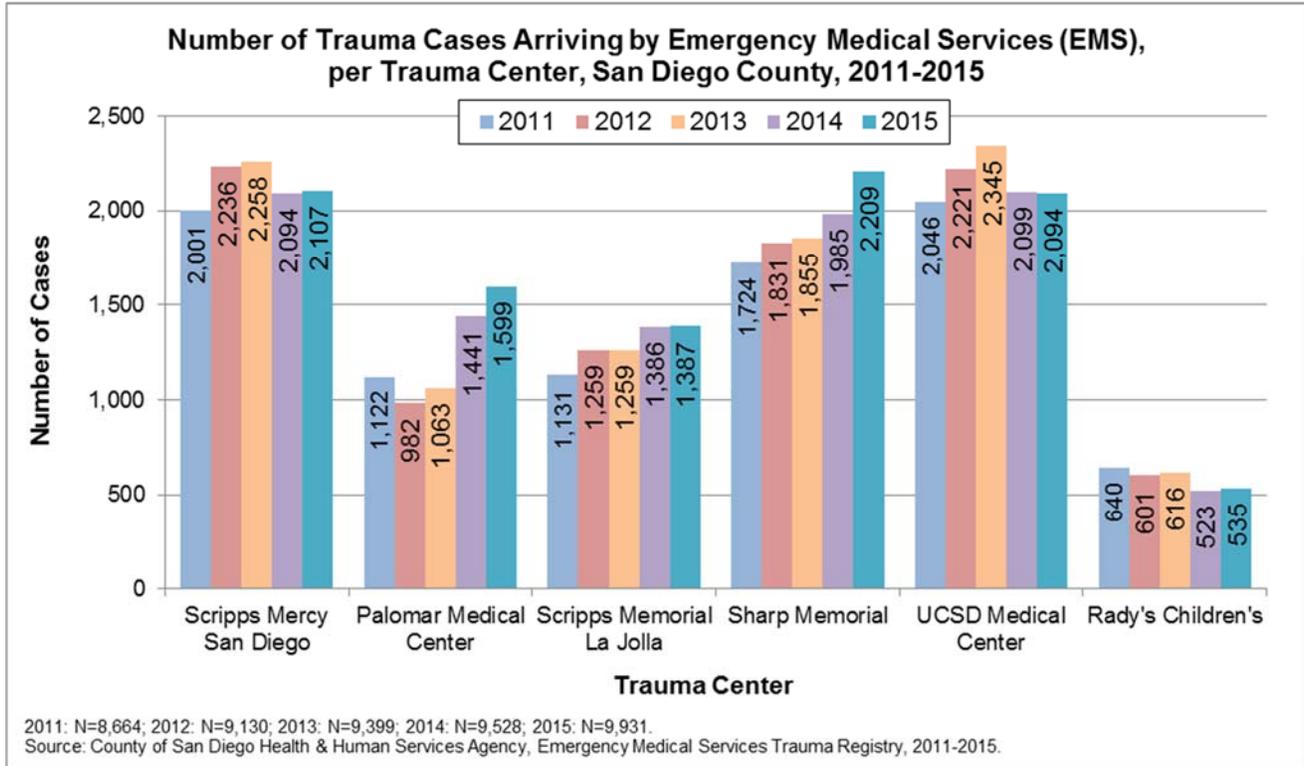


In 2015, 5,302 stroke cases were treated at a designated Stroke Receiving Center. Of these, 50.5% arrived by Emergency Medical Services (EMS), which was slightly lower than in previous years.

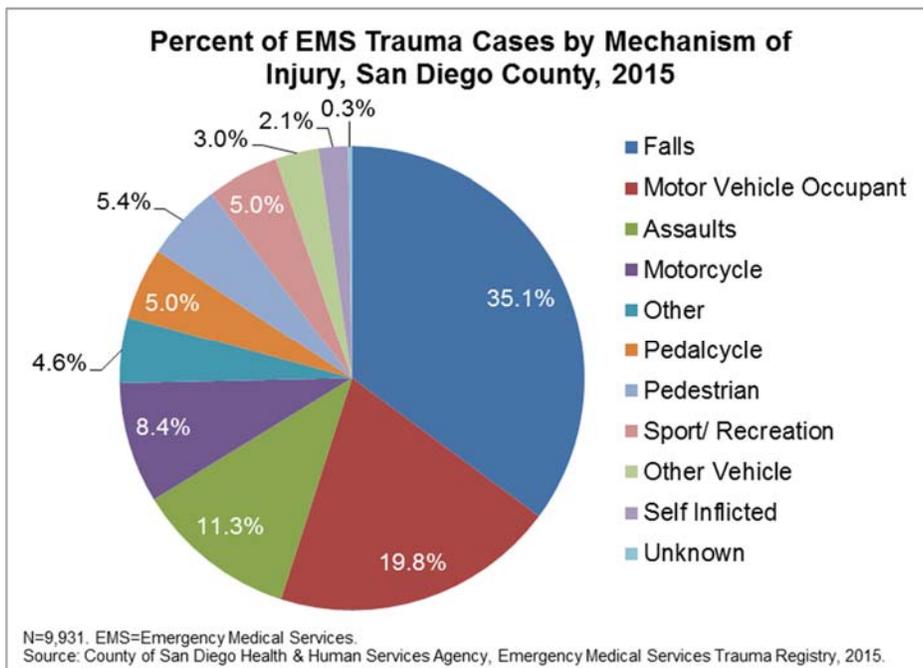


In 2015, 50.4% of the EMS transported Ischemic Stroke cases arrived at a Stroke Receiving Center within 4 hours of the last time the patient was known to be well.

Specialty System Overview - Trauma



In 2015, 9,931 trauma cases were transported to a Trauma Center via EMS. The distribution of trauma patients transported by EMS among the Trauma Centers ranged from 5.4% to 22.2%.



Similar to previous years, more than one third of EMS transported trauma cases were due to a fall in 2015. The second most common mechanism of injury was the result of being a motor vehicle occupant.

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