



EMS SYSTEM REPORT

OCTOBER 1, 2014

ISSUE 3

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SPECIAL POINTS OF INTEREST:

- Trauma system data facts are in pages 4-6
- ROSC & STEMI information are in pages 7-9
- STROKE program information are in pages 10-12
- EMS Provider Transports are in pages 14-16

Message from the Director and Medical Director

The 2014 EMS System Data Report provides an excellent opportunity for you our readers to see first-hand the expansion of the EMS Agency's data capabilities. Since last year's report, the number of fire departments utilizing electronic patient care records increased from five to 11, resulting in more timely and accurate data submission from our provider agencies. The County's Hospital Specialty Care Center programs continue to submit data



Cathy Chidester
Director

that provides us the opportunity to measure outcomes and integrate our data to ensure that we measure the entire patient care continuum. The EMS Agency strives to provide data that:

- Improves system transparency, public understanding of emergency medical incidents and the unique characteristics of emergency care delivery in specific areas of the County.
- Is useful to system planners and results in informed public policy.
- Identifies trends in injury and illness within Los Angeles County, identifying patient needs and opportunities for



Dr. William Koenig
Medical Director

improving patient outcomes.

- Creates public awareness of the care our Specialty Care Centers provide, thus improving access and utilization of regionalized EMS care.

The EMS System Data Report is a resource to assist with answering system questions and serves as a catalyst for change to improve the health of our community. Please enjoy this year's edition.

System Demographics

72 9-1-1 Receiving Hospitals

- 42 EDAP (Emergency Department Approved for Pediatrics)
- 8 Pediatric Medical Centers
- 6 Pediatric Trauma Centers
- 14 Trauma Centers
- 21 Paramedic Base Hospitals
- 33 STEMI Receiving Centers
- 33 Approved Stroke Centers
- 54 Perinatal Centers
- 40 Hospitals with Neonatal Intensive Care Unit
- 9 SART (Sexual Assault Response Team) Centers
- 13 Disaster Resource Centers

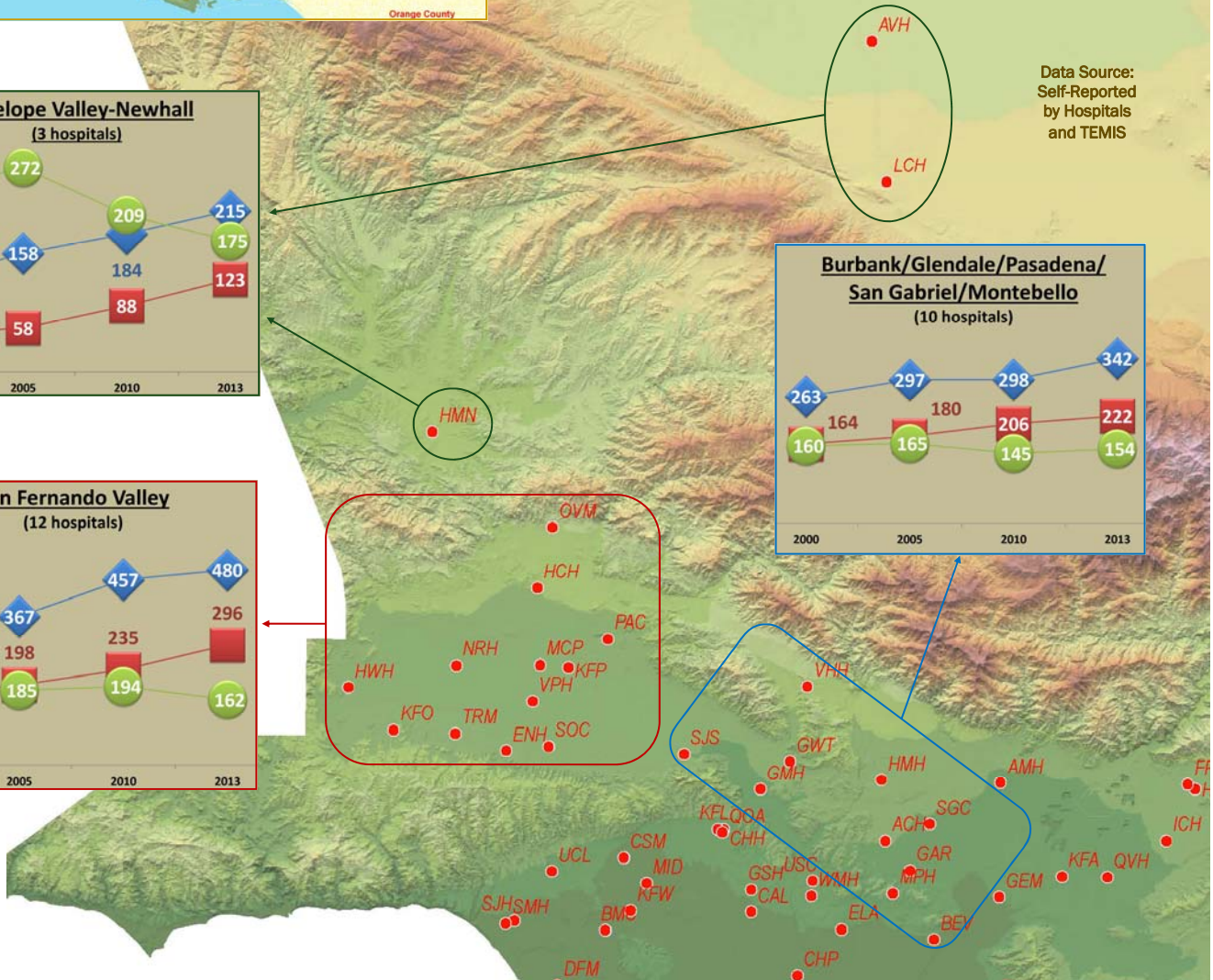
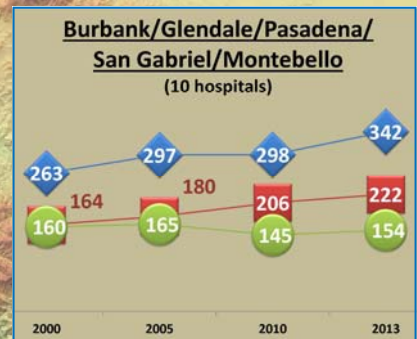
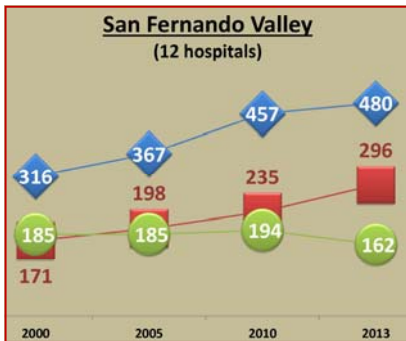
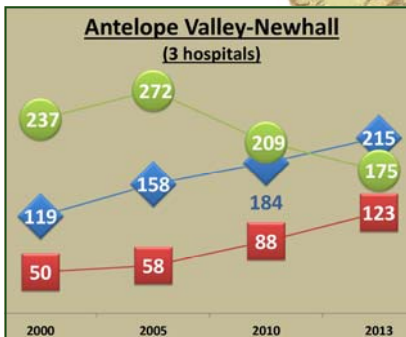
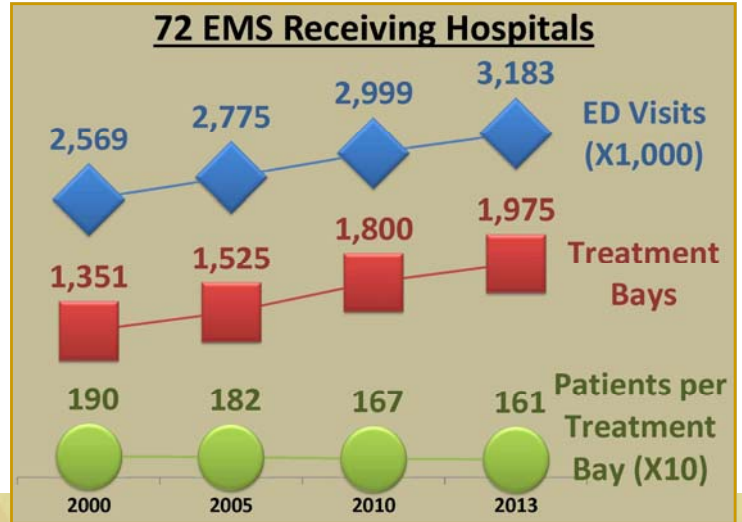
EMS Provider Agencies

- 32 Public Safety EMS Provider Agency
- 31 Licensed Basic Life Support Ambulance Operators
- 18 Licensed Advanced Life Support Ambulance Operators
- 18 Licensed Critical Care Transport Ambulance Operators
- 13 Licensed Ambulette Operators

EMS Practitioners

- 3,786 Accredited Paramedics
- 7,681 Certified EMTs by LA Co EMS Agency
- 805 Certified Mobile Intensive Care Nurses

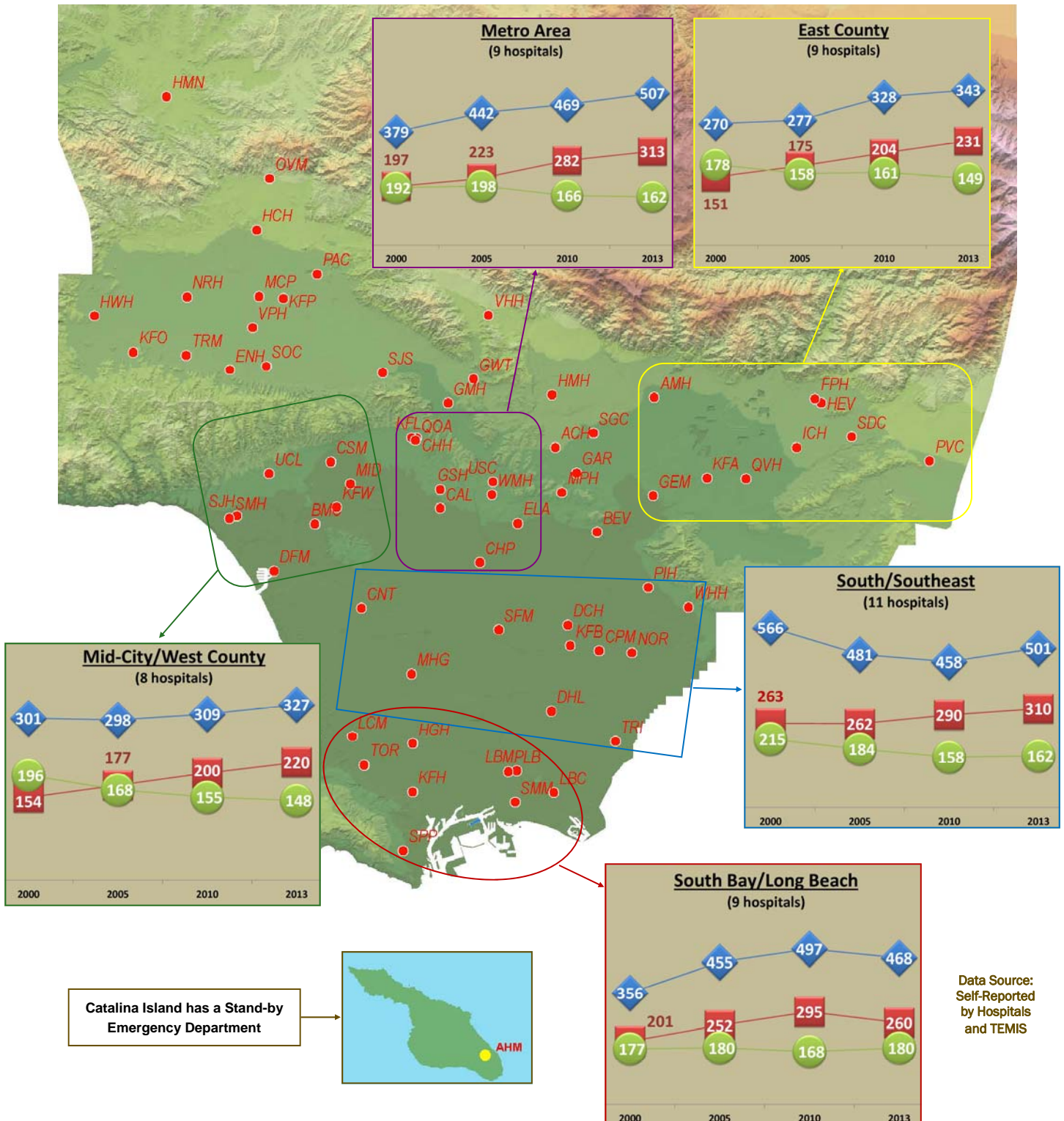
Emergency Department Volume



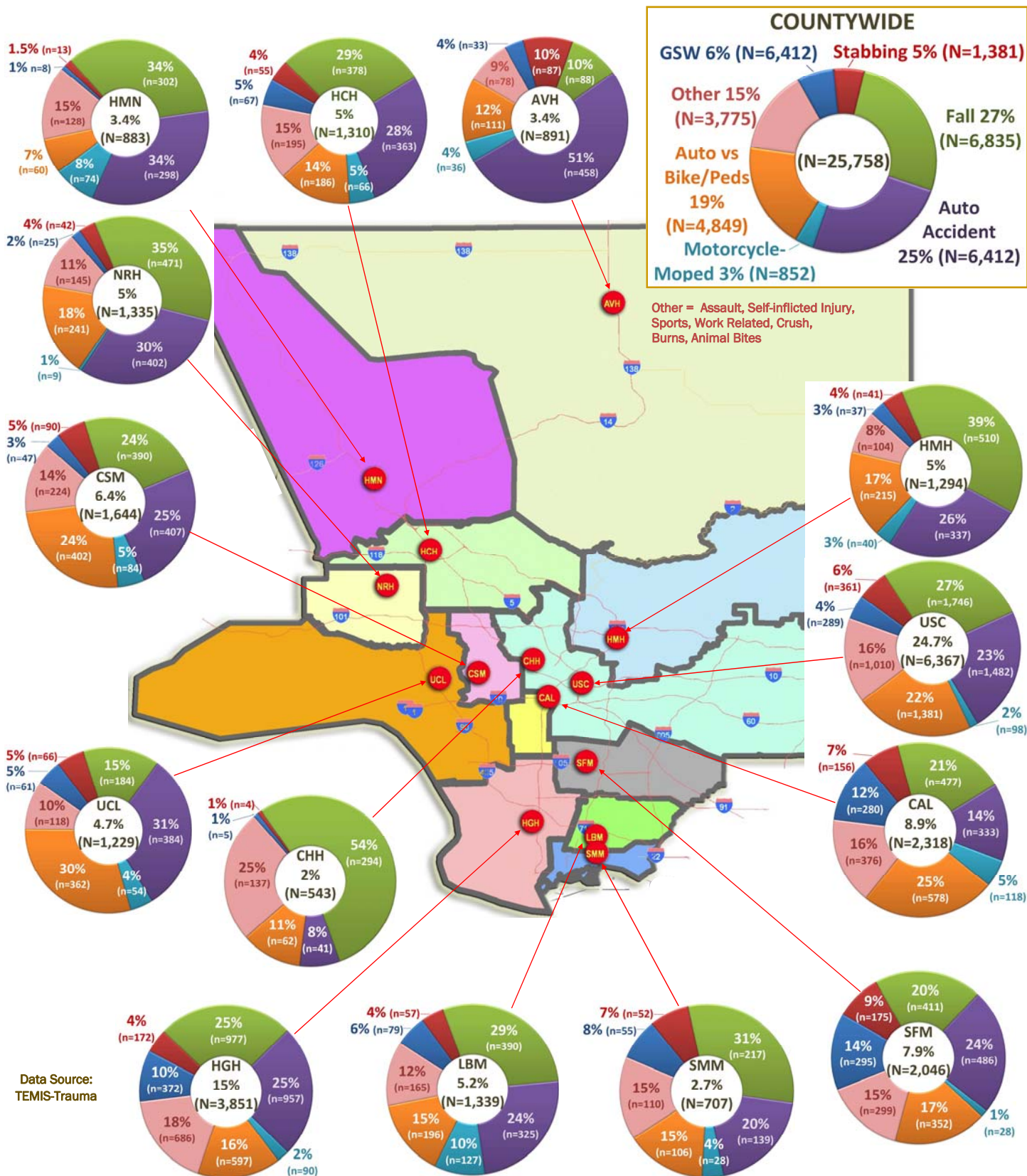
Data Source: Self-Reported by Hospitals and TEMIS

Emergency Department Volume

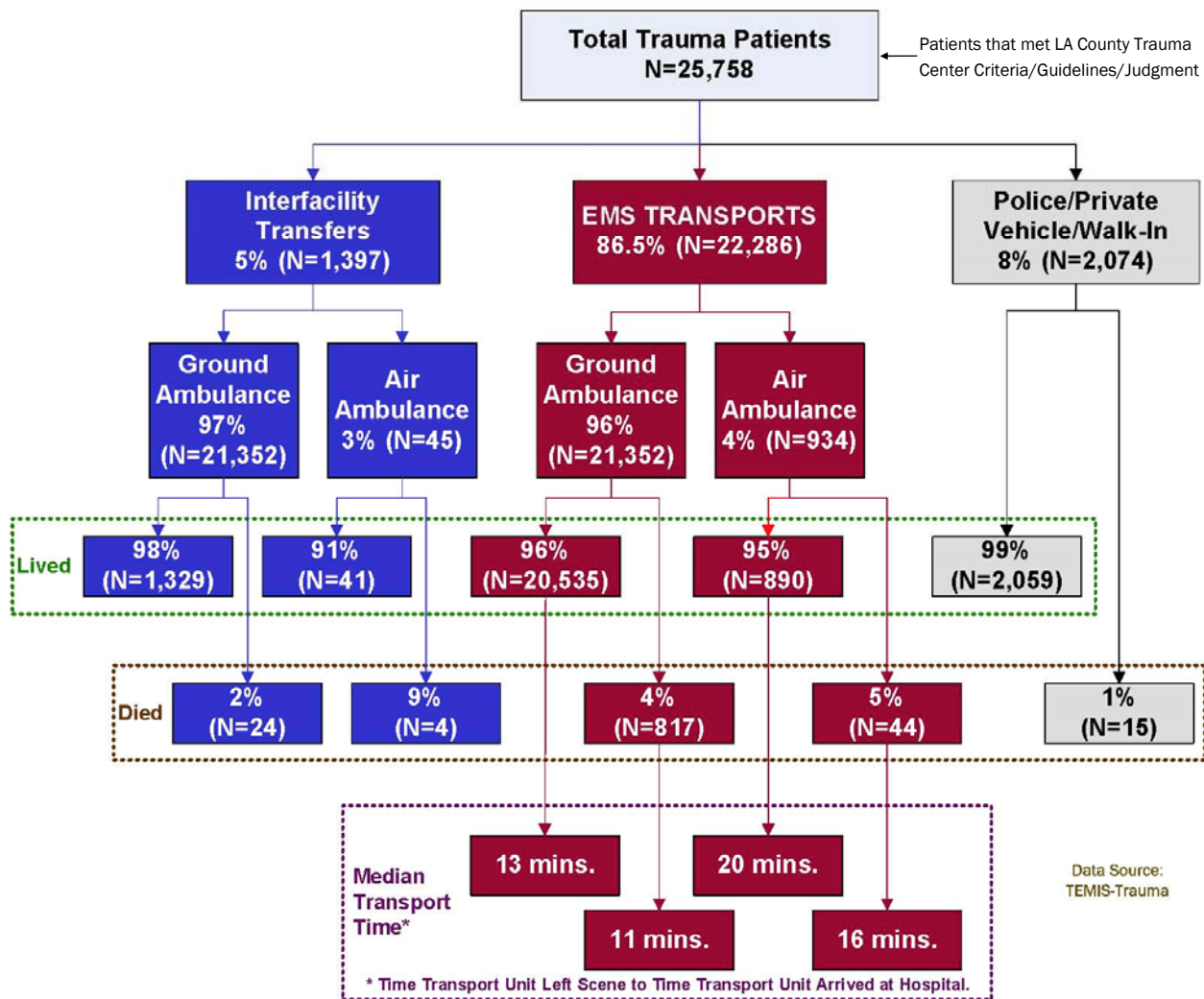
◆ ED Visits (X1,000) ■ Treatment Bays ● Patients per Treatment Bay (x10)



Mechanism of Injury by Trauma Center Catchment Area (CY 2013)

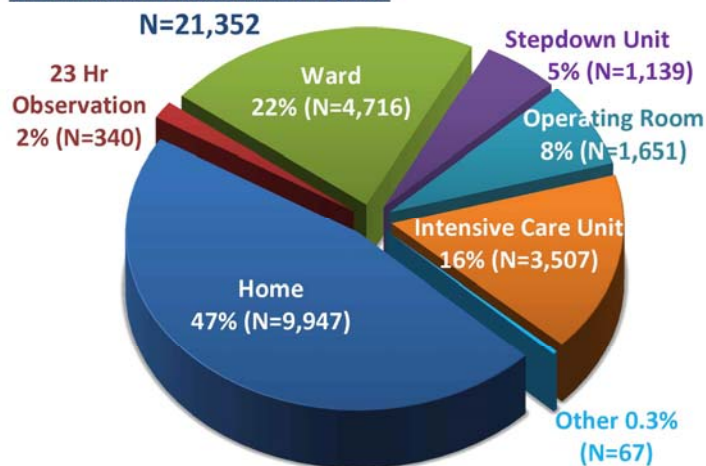


Mode of Transport / Mortality / Transport Time

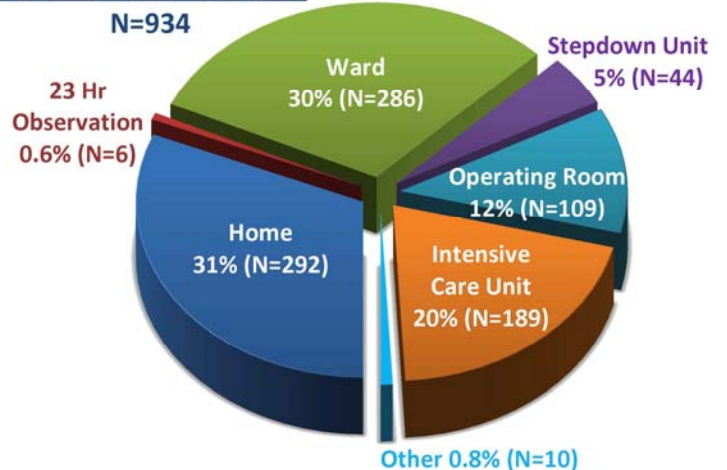


Trauma Patient Emergency Department Disposition

Ground Ambulance Transport



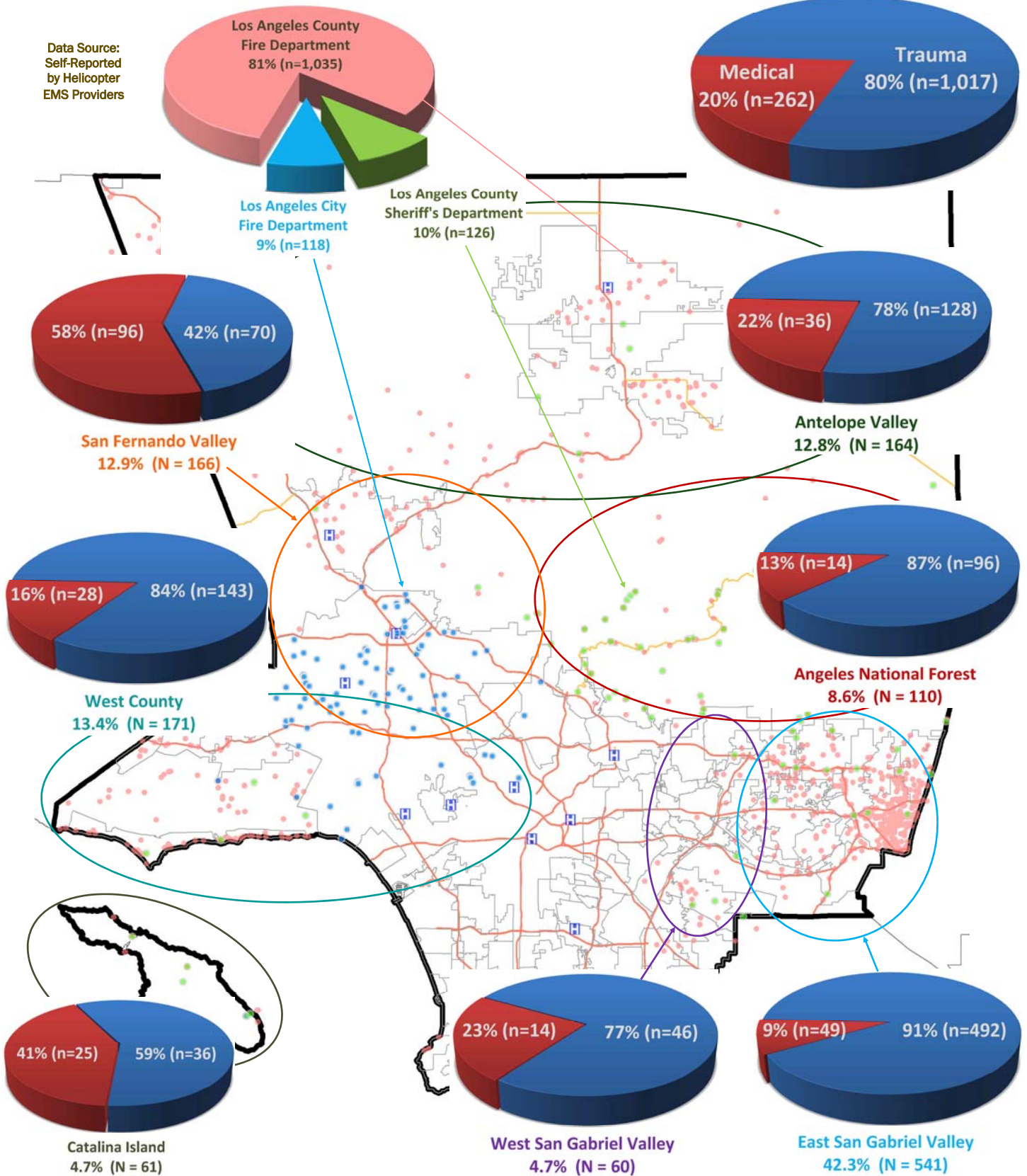
Air Ambulance Transport



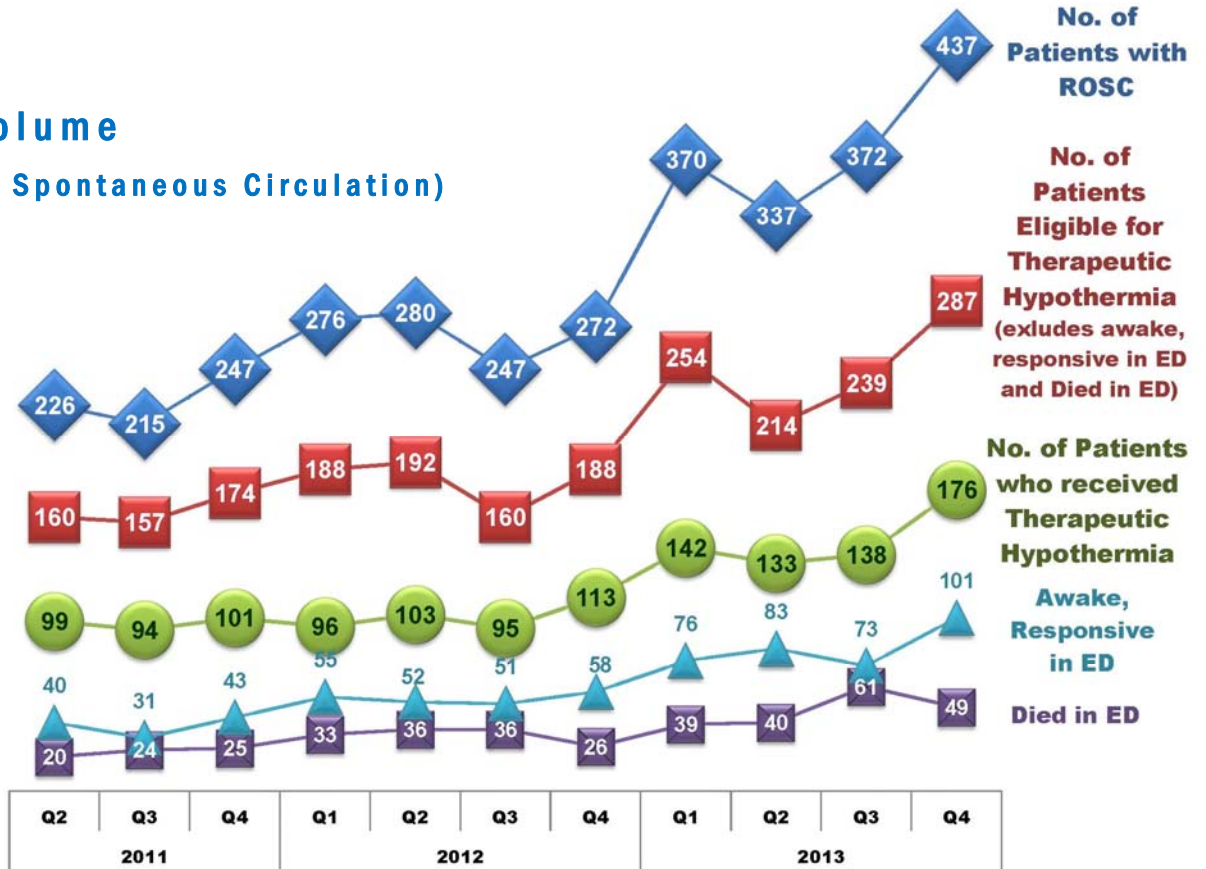
Helicopter EMS Transports (CY 2013)

COUNTYWIDE (N = 1,279)

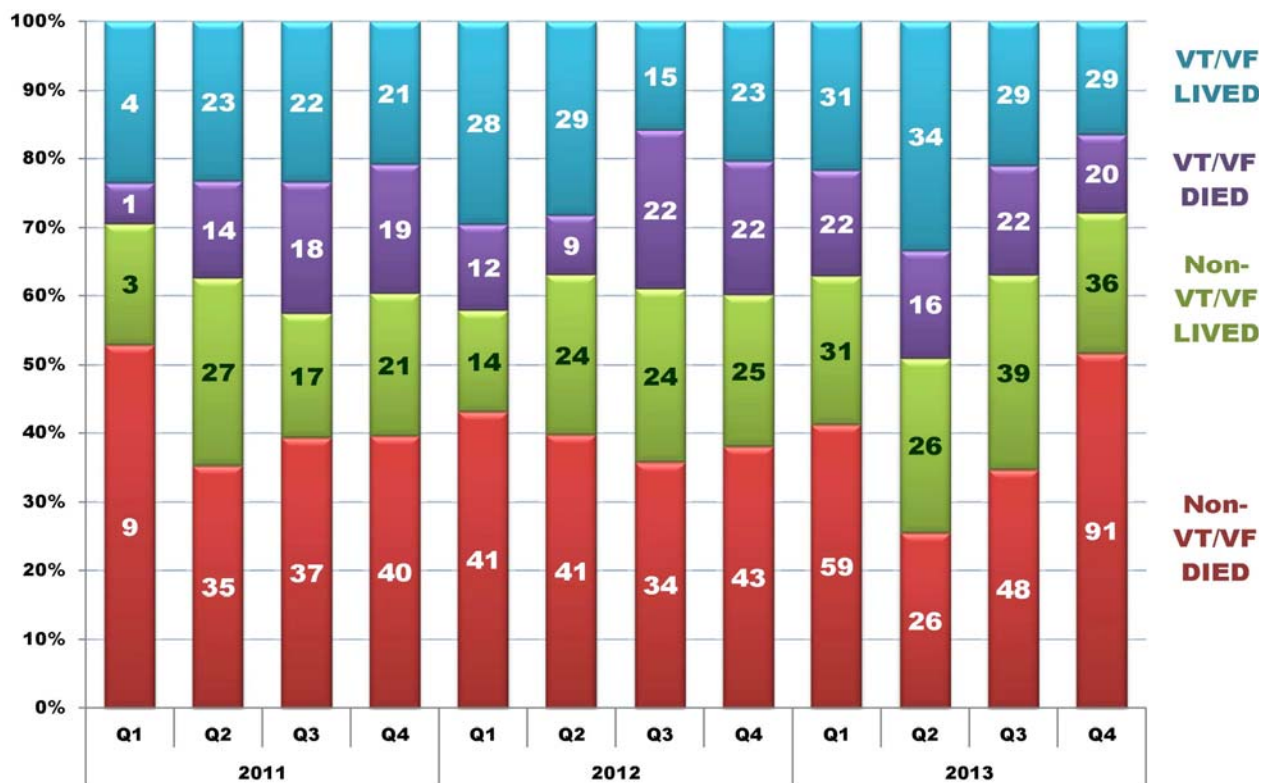
Data Source:
Self-Reported
by Helicopter
EMS Providers



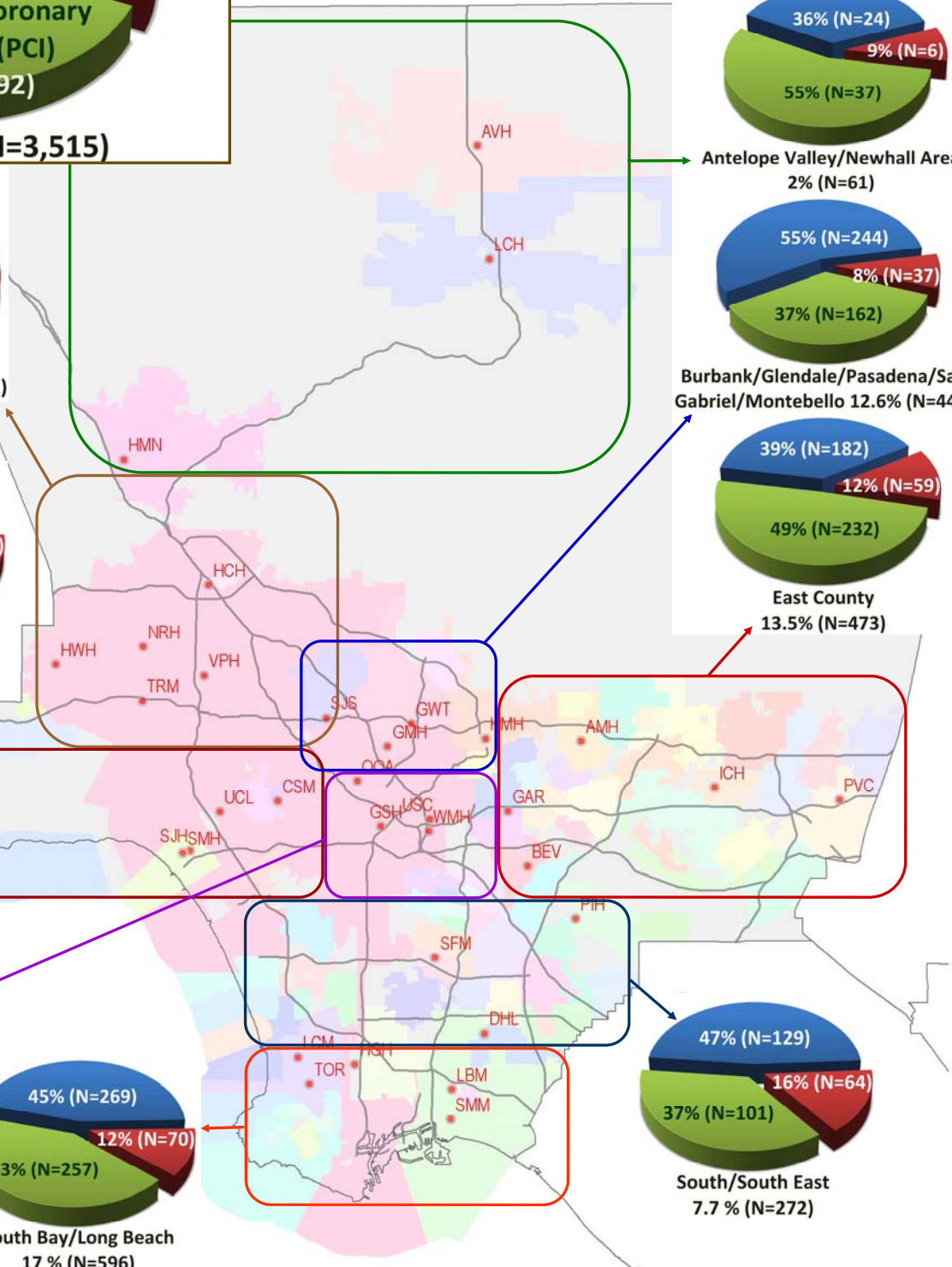
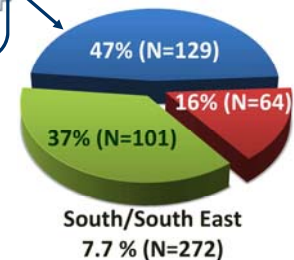
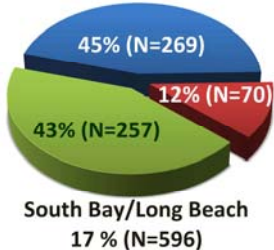
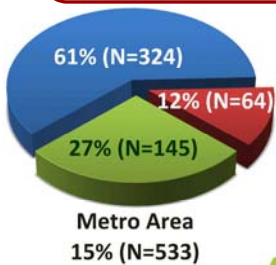
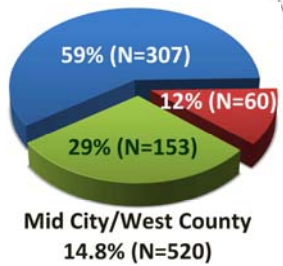
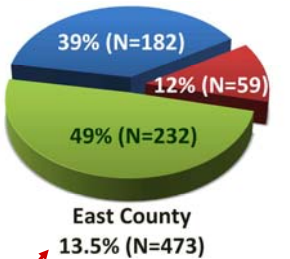
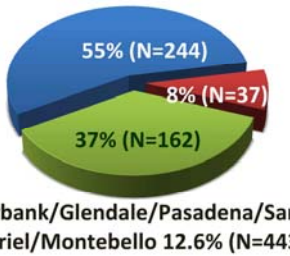
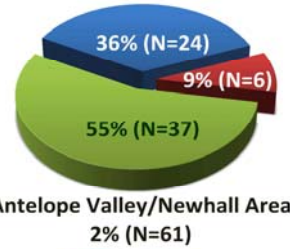
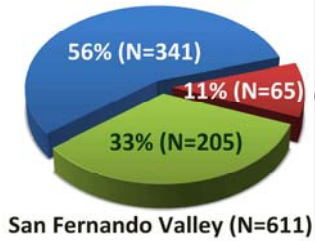
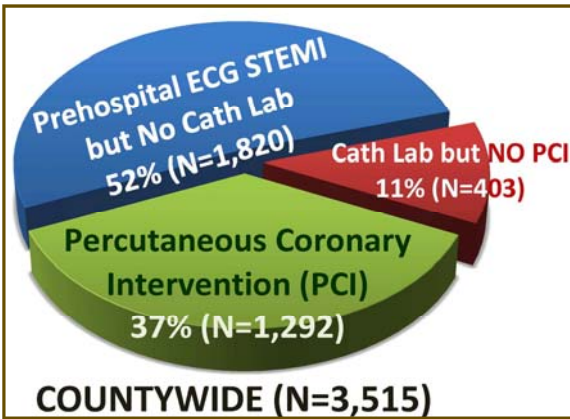
ROSC Volume (Return of Spontaneous Circulation)



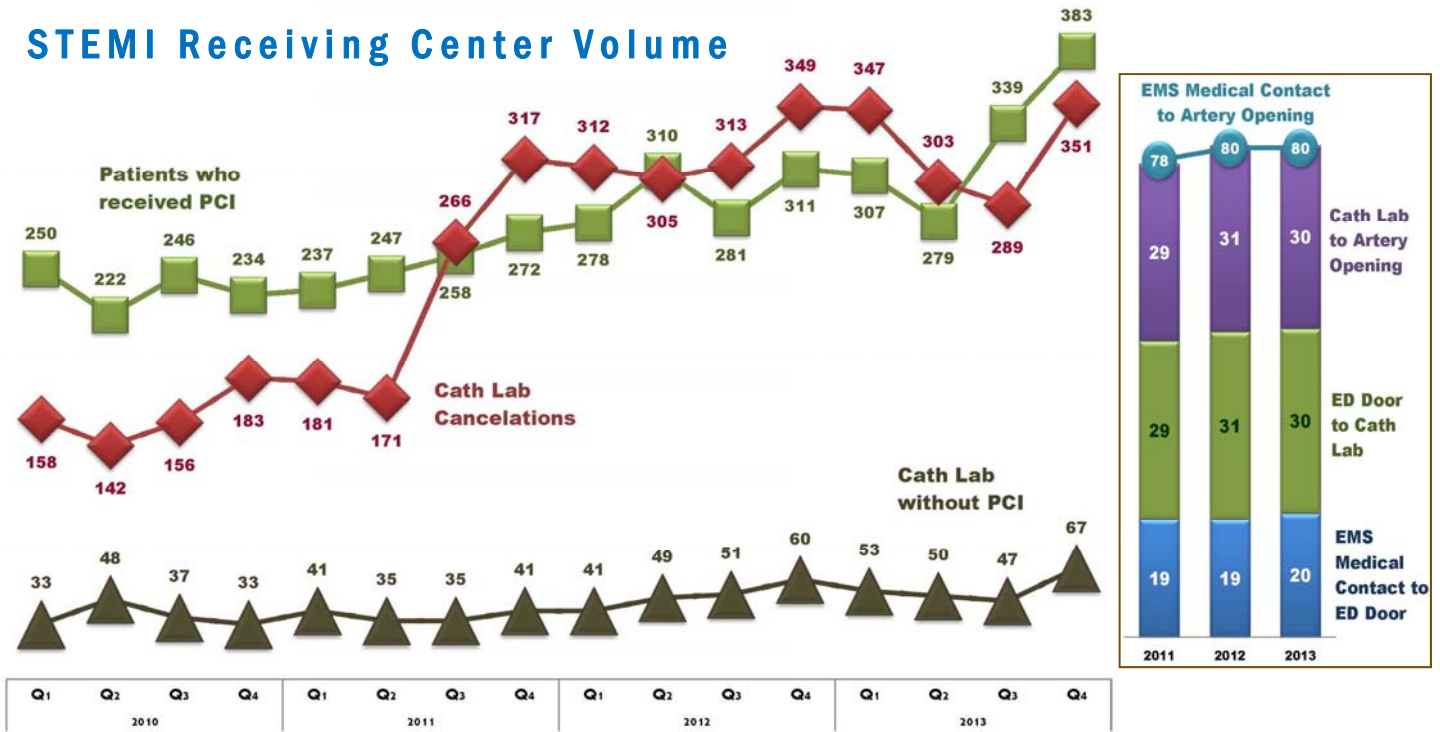
ROSC Patients: Received Therapeutic Hypothermia



Prehospital 12-Lead ECG is ST-Segment Elevation Myocardial Infarction (STEMI) and Transported to STEMI Receiving Centers CY 2013



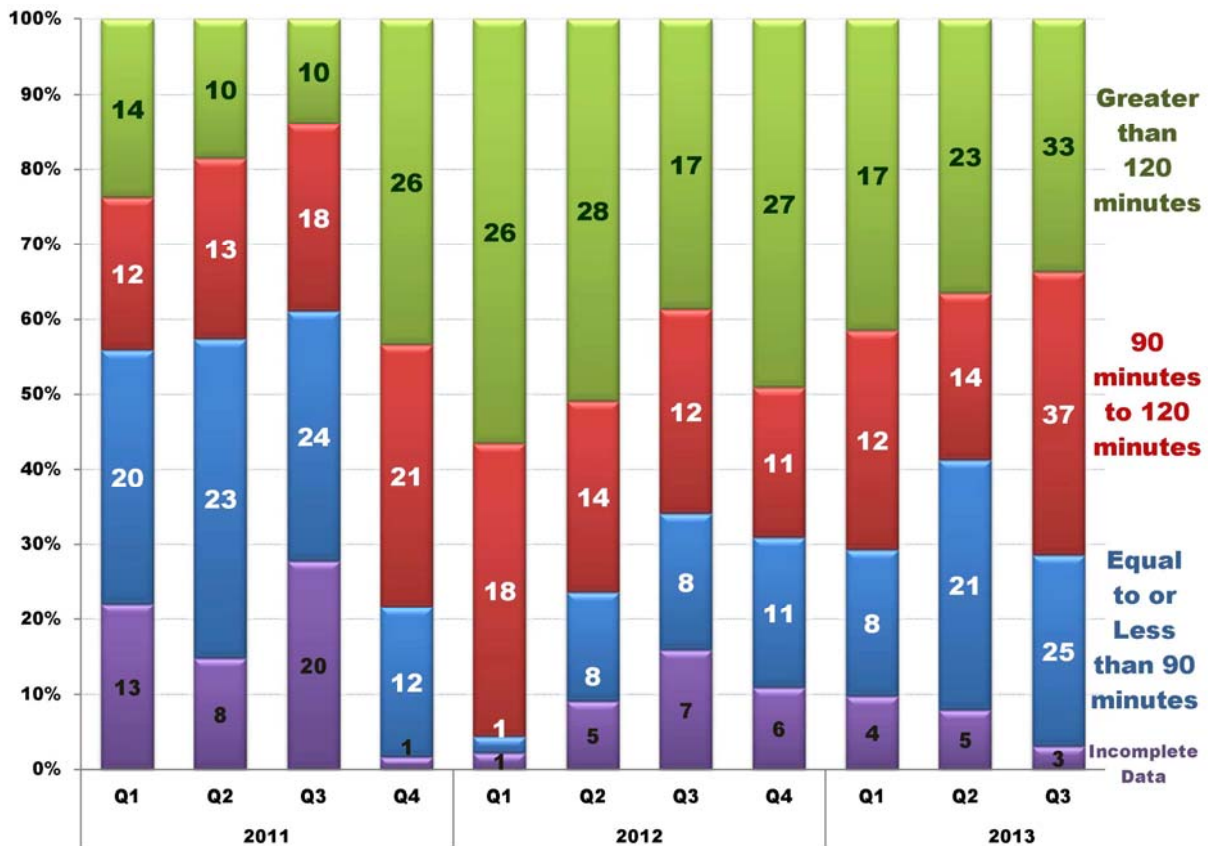
STEMI Receiving Center Volume



STEMI Transfers: Arrival at Referral Facility to Artery Opening at STEMI Receiving Center

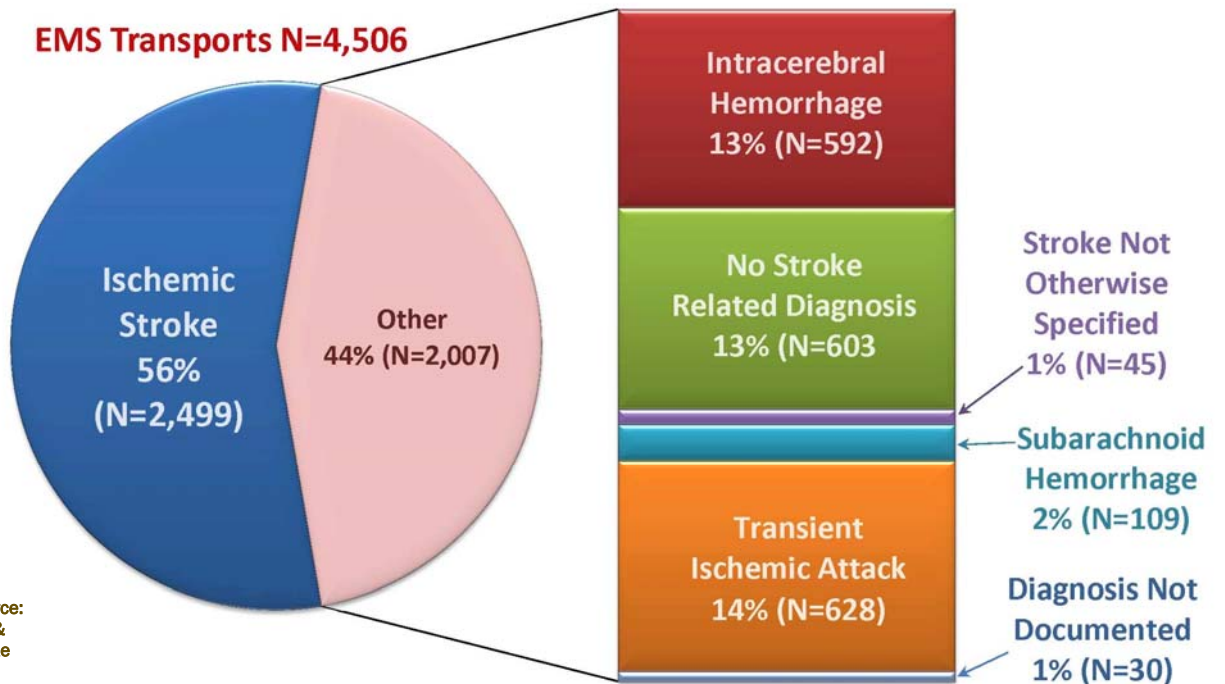
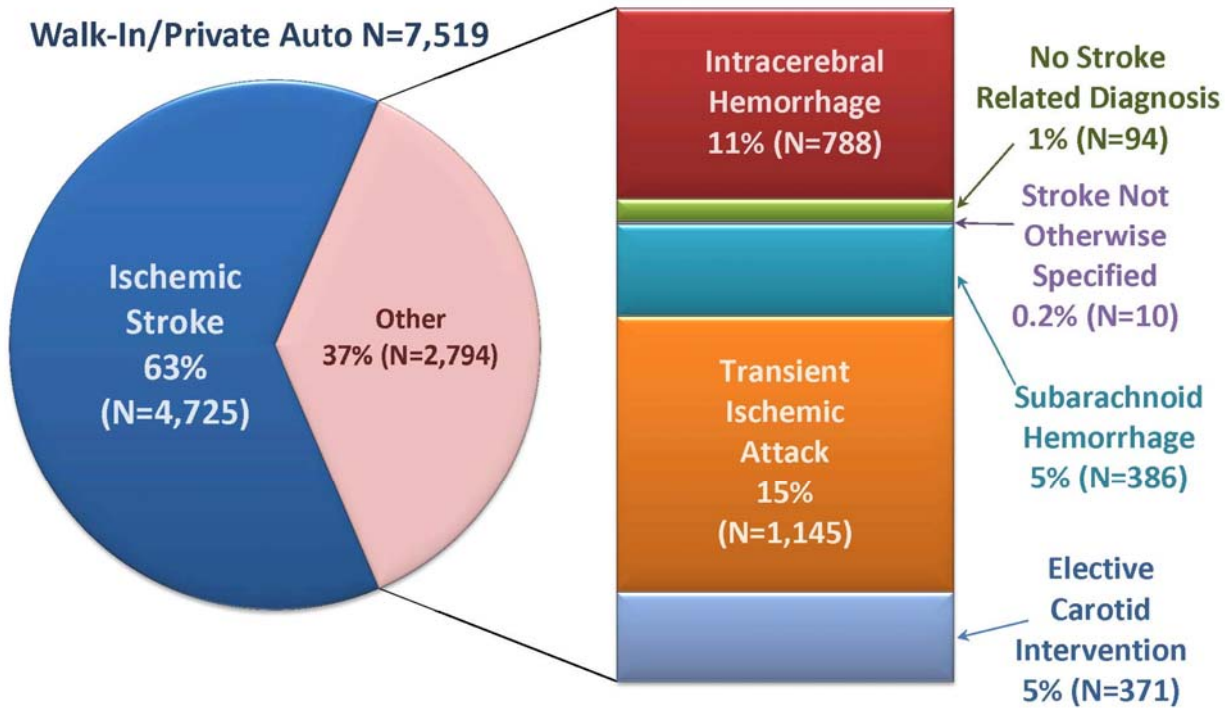


Data Source: LA SRC Database



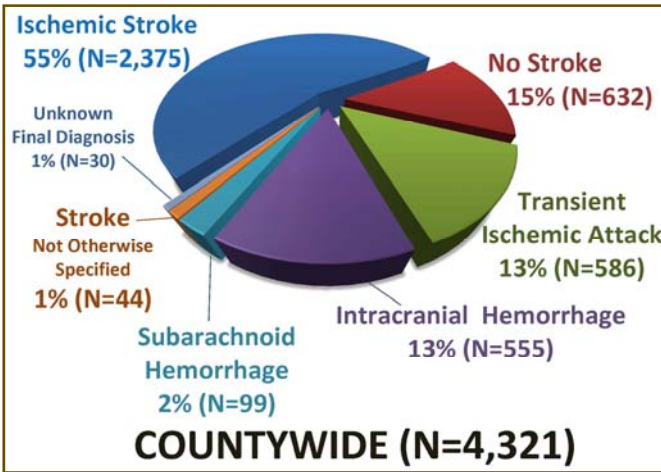


Approved Stroke Center Patients (CY 2013)

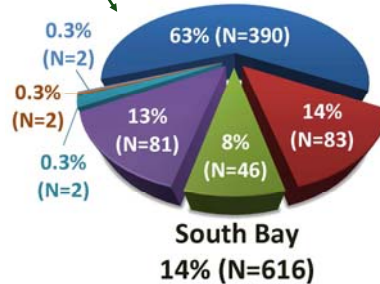
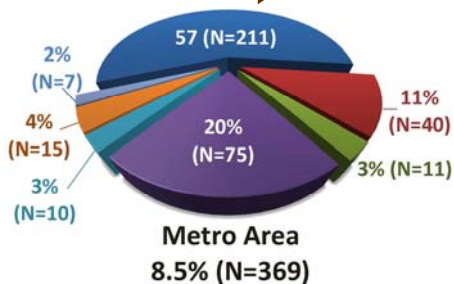
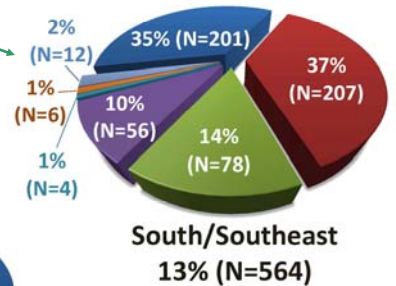
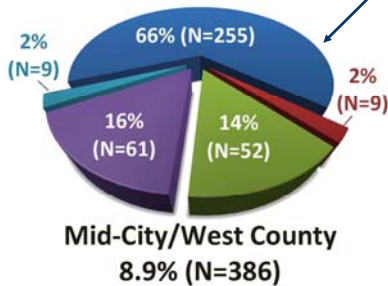
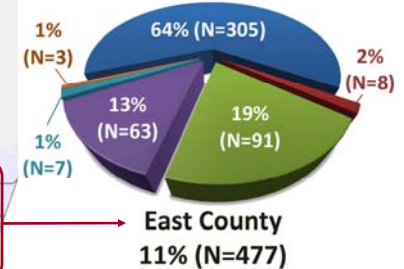
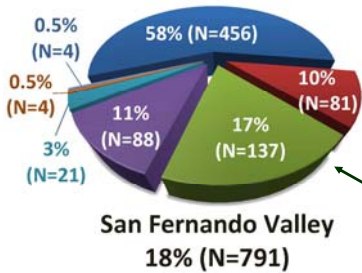
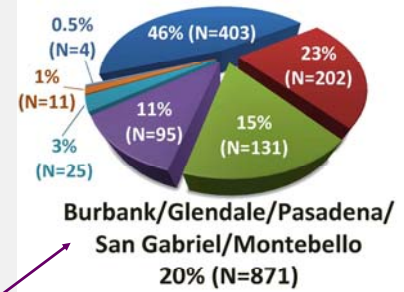
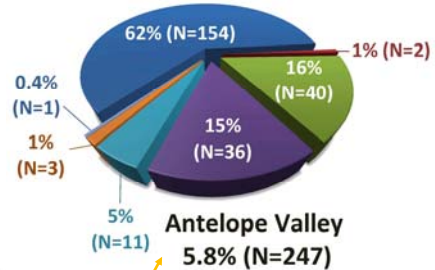


Data Source:
GWTG &
LA Stroke

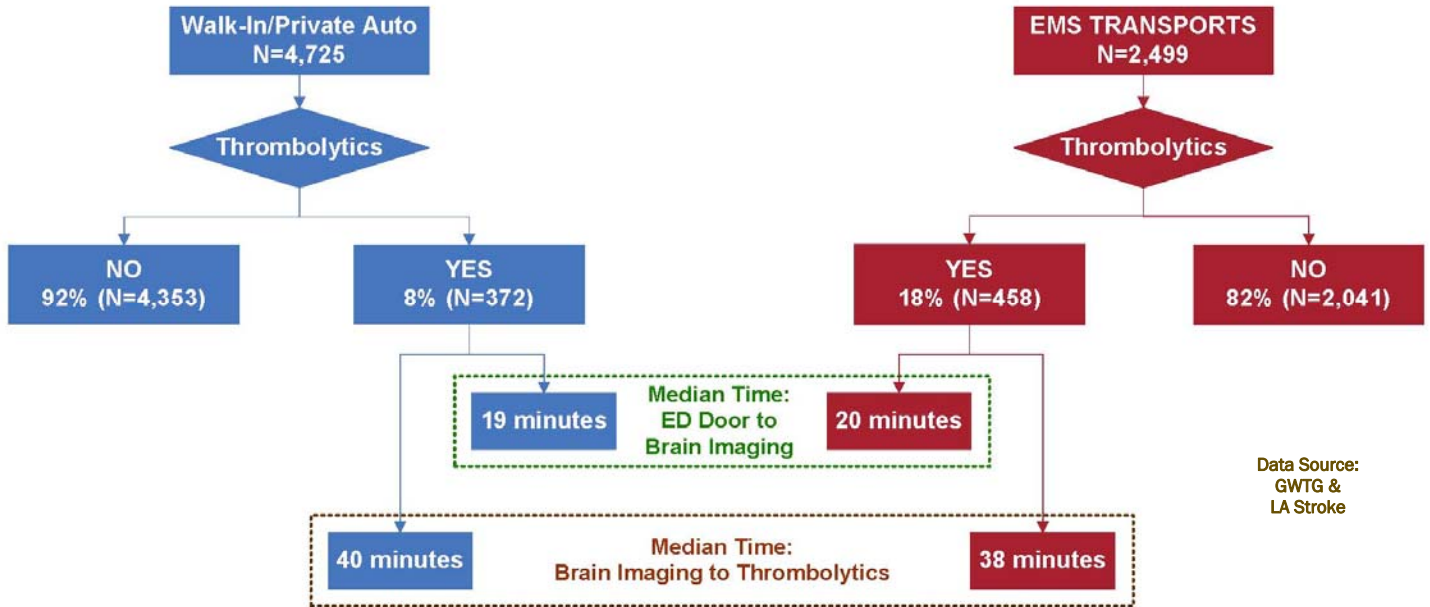
Final Diagnosis of EMS Transports to Approved Stroke Centers (CY 2013)



Note: 185 patients were transported to out of County hospitals



Ischemic Stroke: Median Times (CY 2013)



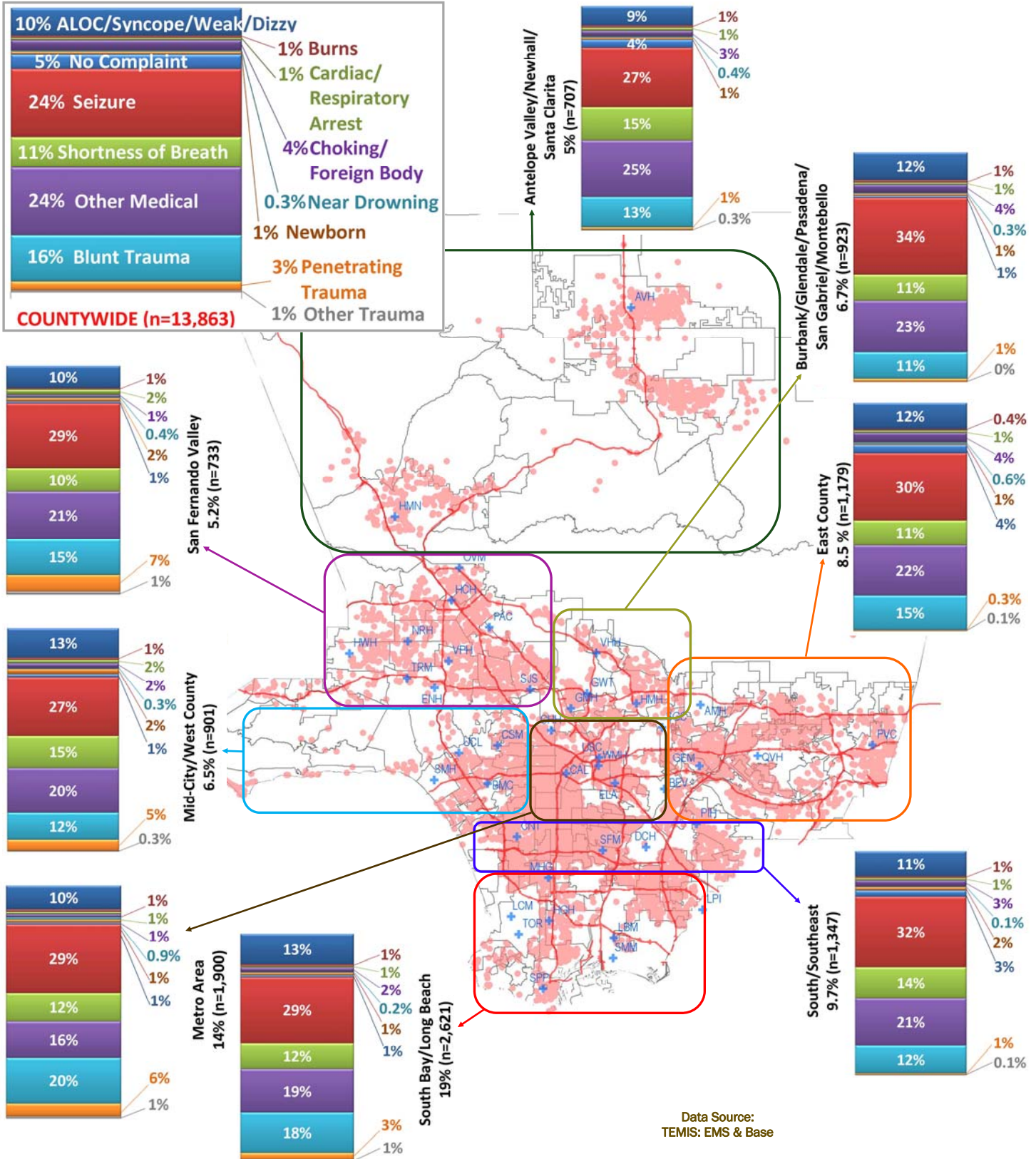
Data Source: GWTG & LA Stroke

EMS Stroke Transport: Ischemic Strokes

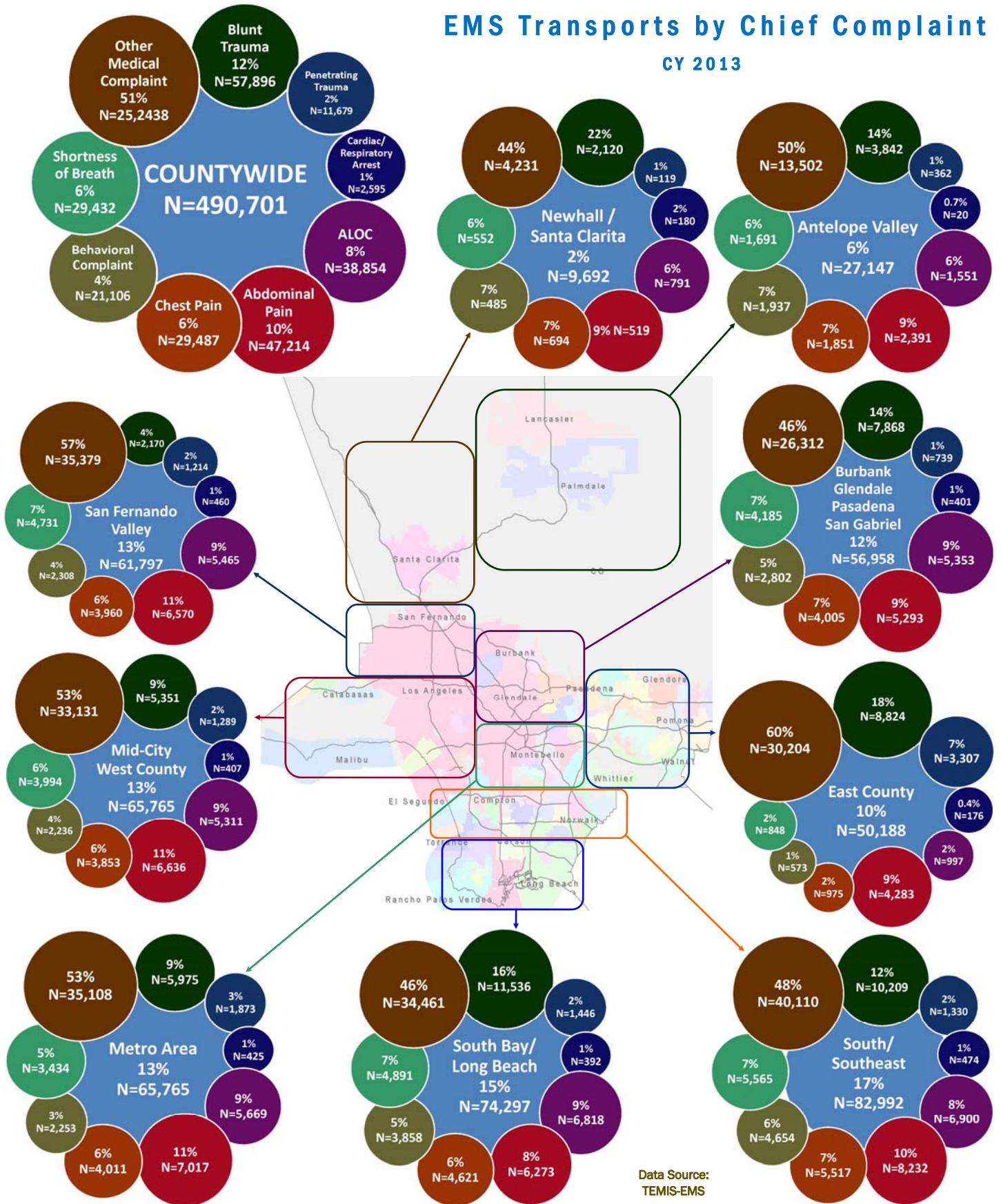
| | 2011 | | | | 2012 | | | | 2013 | | | |
|---|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| LKWT to ED Less Than 2 hours (LKWT < 2hrs / Ischemic Stroke) | 28% | 32% | 30% | 33% | 30% | 34% | 34% | 30% | 31% | 30% | 32% | 33% |
| Received Thrombolytics (Received Thrombolytics / LKWT < 2hrs) | 43% | 46% | 46% | 43% | 47% | 43% | 40% | 40% | 45% | 44% | 48% | 40% |
| Treated by 3 hrs (ED Arrival to Therapy less than 60 min / LKWT < 2hrs) | 17% | 12% | 16% | 16% | 15% | 17% | 17% | 9% | 16% | 22% | 50% | 42% |
| Ischemic Stroke: N = | 477 | 516 | 466 | 484 | 519 | 576 | 541 | 634 | 713 | 607 | 564 | 615 |
| | 2011 | | | | 2012 | | | | 2013 | | | |
| LKWT to ED < 2hrs | 136 | 164 | 146 | 159 | 156 | 196 | 191 | 200 | 220 | 180 | 180 | 201 |
| Received Thrombolytics | 59 | 76 | 67 | 69 | 74 | 85 | 77 | 79 | 99 | 80 | 90 | 84 |
| Treated by 3 hrs | 24 | 20 | 23 | 26 | 23 | 26 | 32 | 23 | 36 | 41 | 86 | 80 |

LKWT = Last Known Well Time

Chief Complaints of EMS Pediatric Transports: 14 years old and younger (CY 2013)

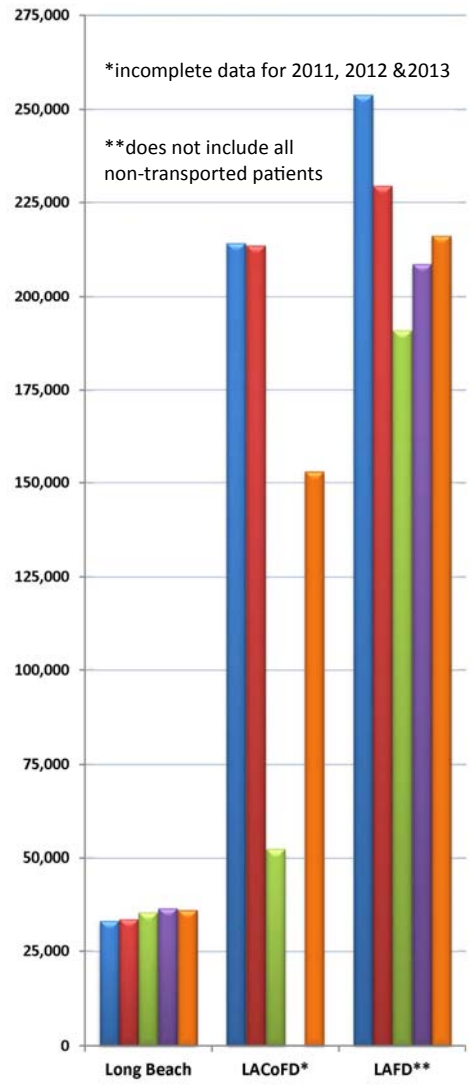
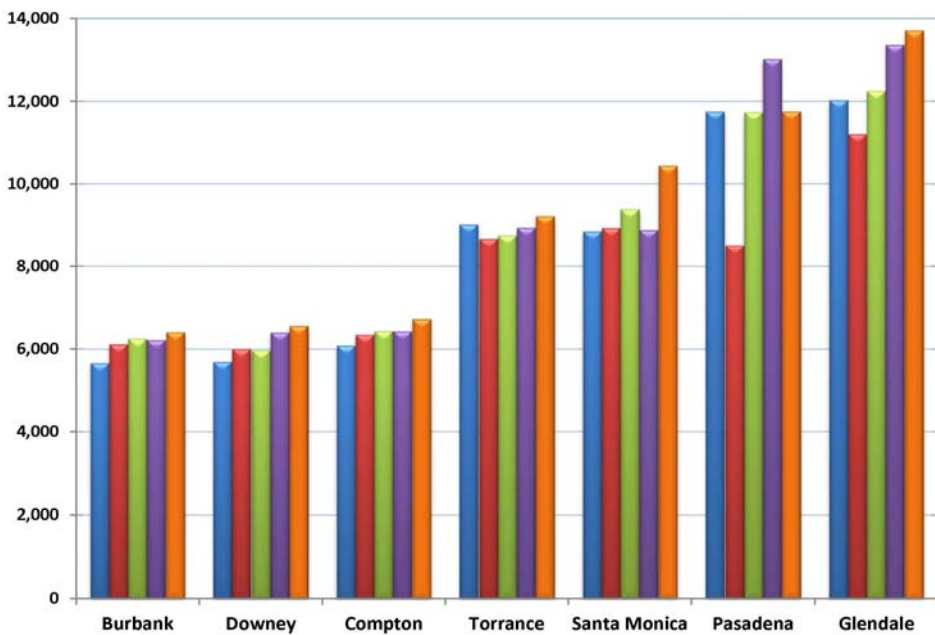
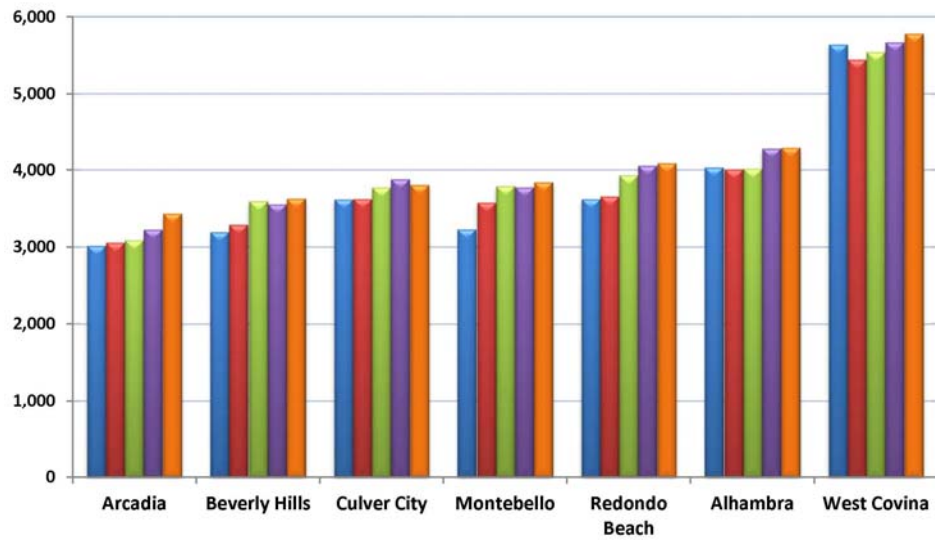
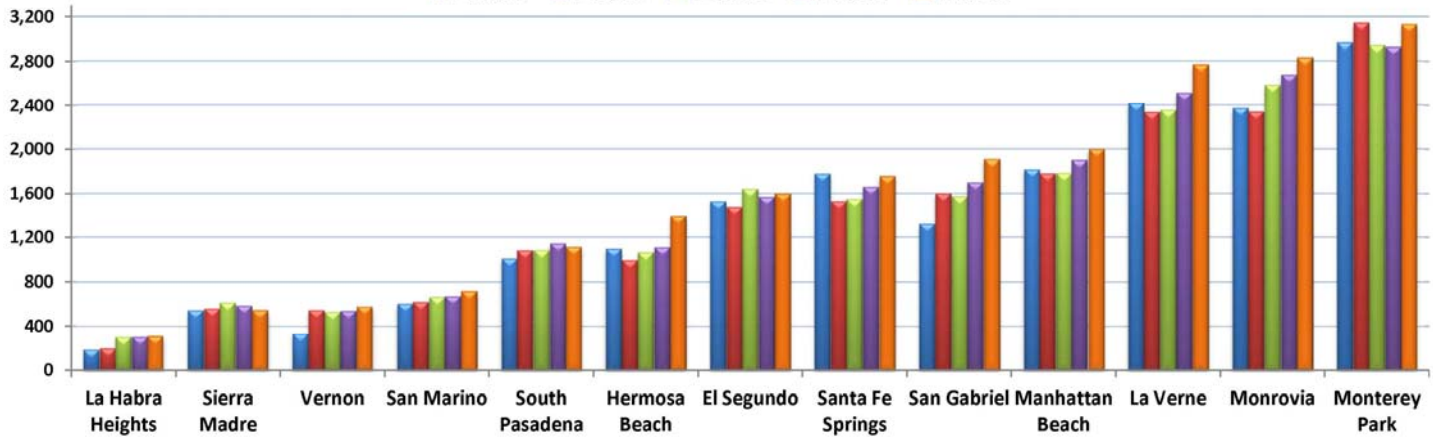


EMS Transports by Chief Complaint CY 2013



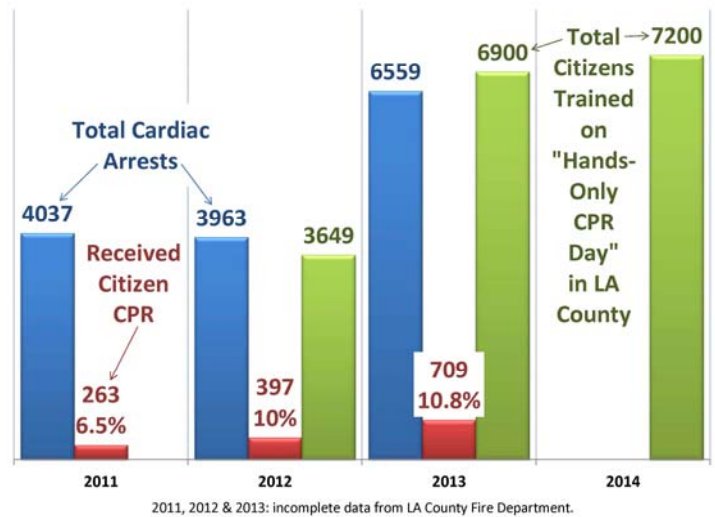
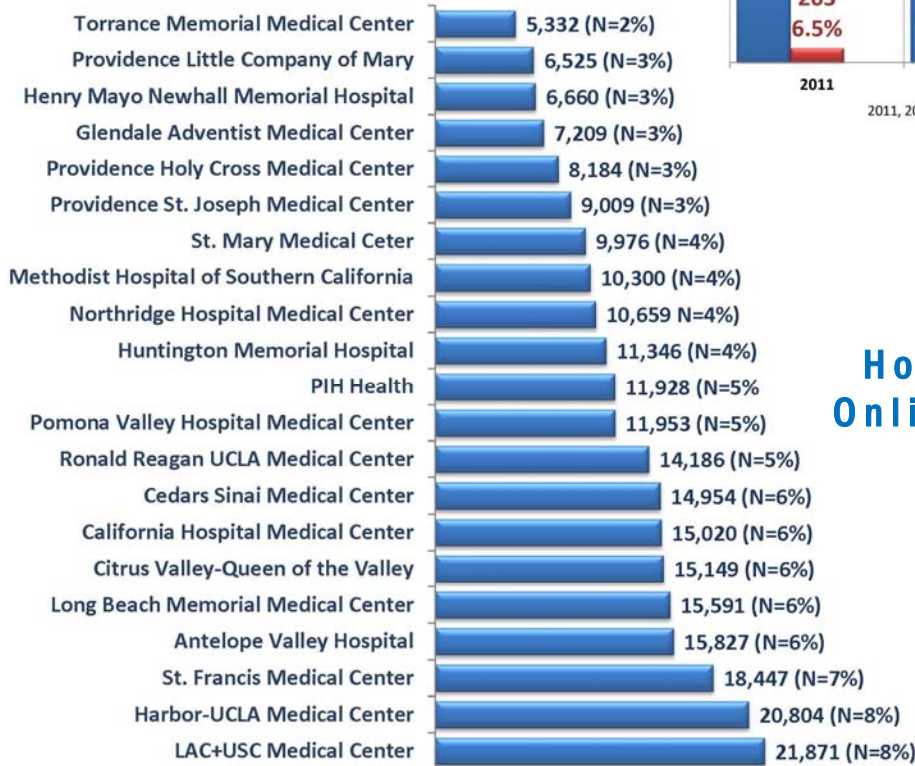
EMS Responses by 9-1-1 Jurisdictional Provider Agency (CY 2013)

■ 2009 ■ 2010 ■ 2011 ■ 2012 ■ 2013



Data Source:
TEMIS-EMS

Citizen (Bystander) Cardiopulmonary Resuscitation (CPR)



Paramedic Base Hospital Contact for Online Medical Control

N=206,930
CY 2013

Data Source: TEMIS-EMS & BASE



EMS AGENCY 

To ensure timely, compassionate, and quality emergency and disaster medical services.

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For data request please complete and submit the Data Request Form at http://ems.dhs.lacounty.gov/dhs/cms1_207416.pdf