

# Texas EMS/Trauma Registry

## Hospital Data Request

Injury Epidemiology & Surveillance Branch  
Environmental Epidemiology and Disease Registries Section  
Department of State Health Services

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# Texas EMS/Trauma Registry

The following report was generated with hospital patient records submitted to the Texas EMS/Trauma Registry as of 5/6/2014. The hospital inclusion criteria are as follows per Texas Administrative Code, Title 25, Chapter 103:

## 1. Traumatic Brain Injuries

An acquired injury to the brain, including brain injuries caused by anoxia due to submersion incidents. The following International Classification of Diseases 9th Revision Clinical Modification (ICD-9-CM) diagnostic codes are to be used to identify cases of traumatic brain injury: 800.0-801.9, 803.0-804.9, and 850.0-854.1. The ICD-9-CM diagnostic code to be used to identify traumatic brain injury caused by anoxia due to submersion incidents is 348.1 or 994.1 (Rule § 103.2).

## 2. Spinal Cord Injuries

An acute, traumatic lesion of the neural elements in the spinal canal, resulting in any degree of sensory deficit, motor deficits, or bladder/bowel dysfunction. The ICD-9-CM diagnostic codes are to be used to identify cases of traumatic spinal cord injury: 806.0-806.9 and 952.0-952.9 (Rule § 103.2).

## 3. Other Traumatic Injuries

An injury listed in the ICD-9-CM diagnostic codes between 800.0 and 959.9, excluding 905-909, 910-924, and 930-939, and admitted to a hospital inpatient setting (for more than 48 hours), or died after receiving any evaluation or treatment or was dead on arrival, or transferred into or out of the hospital (Rule § 103.2).

Note: The ICD-9-CM codes used above are diagnosis codes, not E-codes.

# Texas EMS/Trauma Registry

This summary report only includes data on hospital records that were reported to the registry through a passive surveillance system. Additionally, these data are based on hospitalizations, not patients, such that if a patient was hospitalized more than once or transferred between facilities, both hospital records will be included.

## **In this report:**

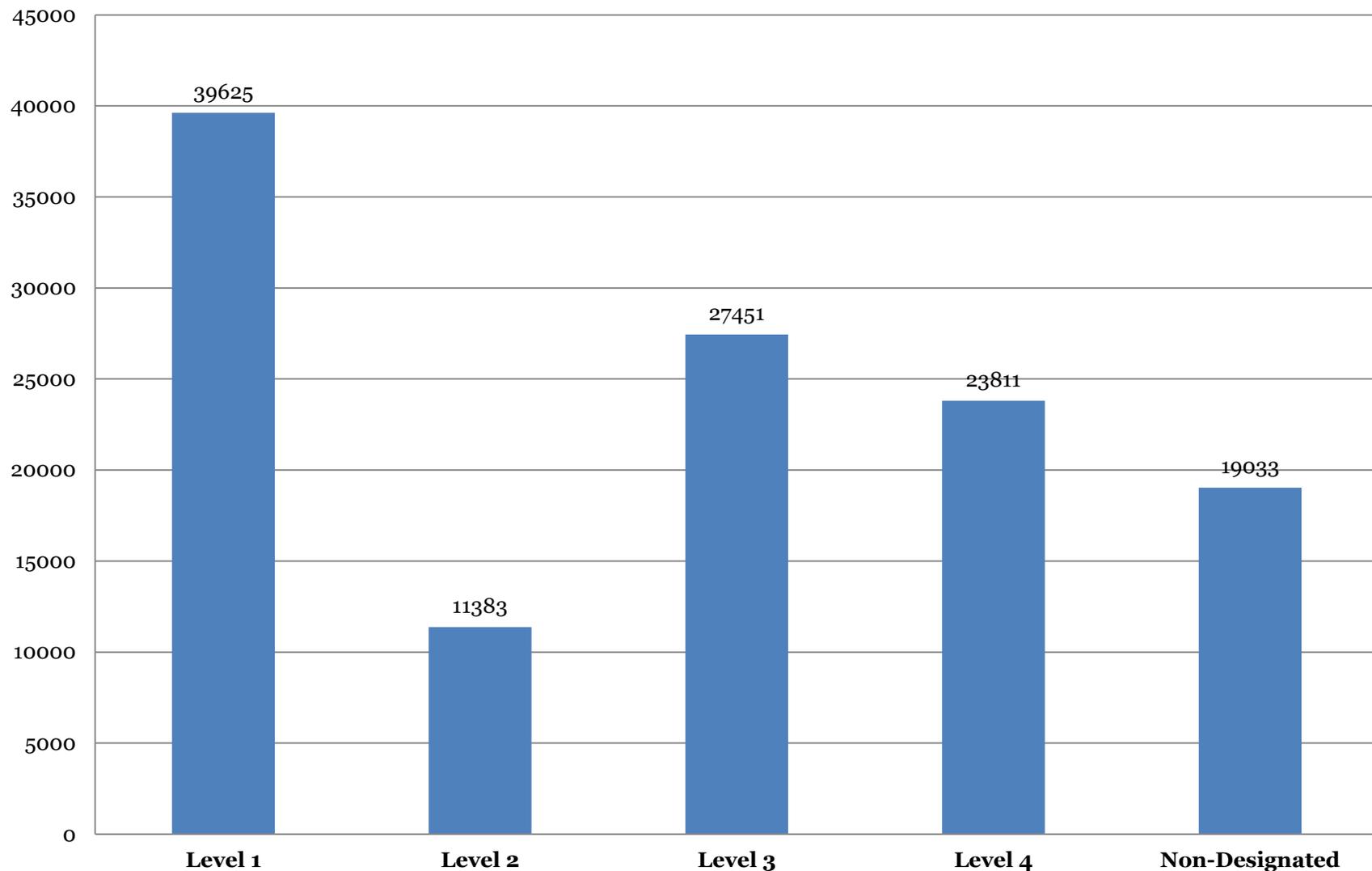
- 2013 data are provisional and may change as more reports are received

## Number of Hospitals Reporting Data to the EMS/ Trauma Registry 2013 by Designation Level

Designation	Number
Level 1	16
Level 2	10
Level 3	46
Level 4	177
Non-Designated	329
Total	578

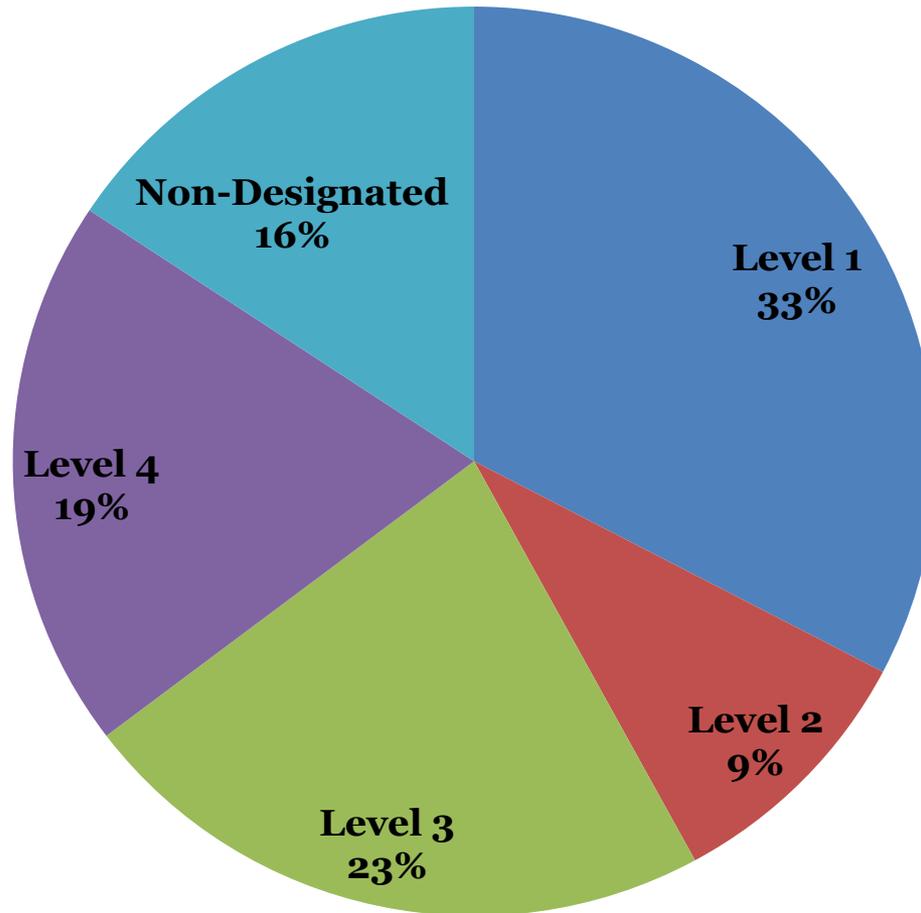
# Hospitalizations by Trauma Center Level, Texas 2013

## N=121,303



# Hospitalizations by Trauma Center Level, Texas 2013

N=121,303

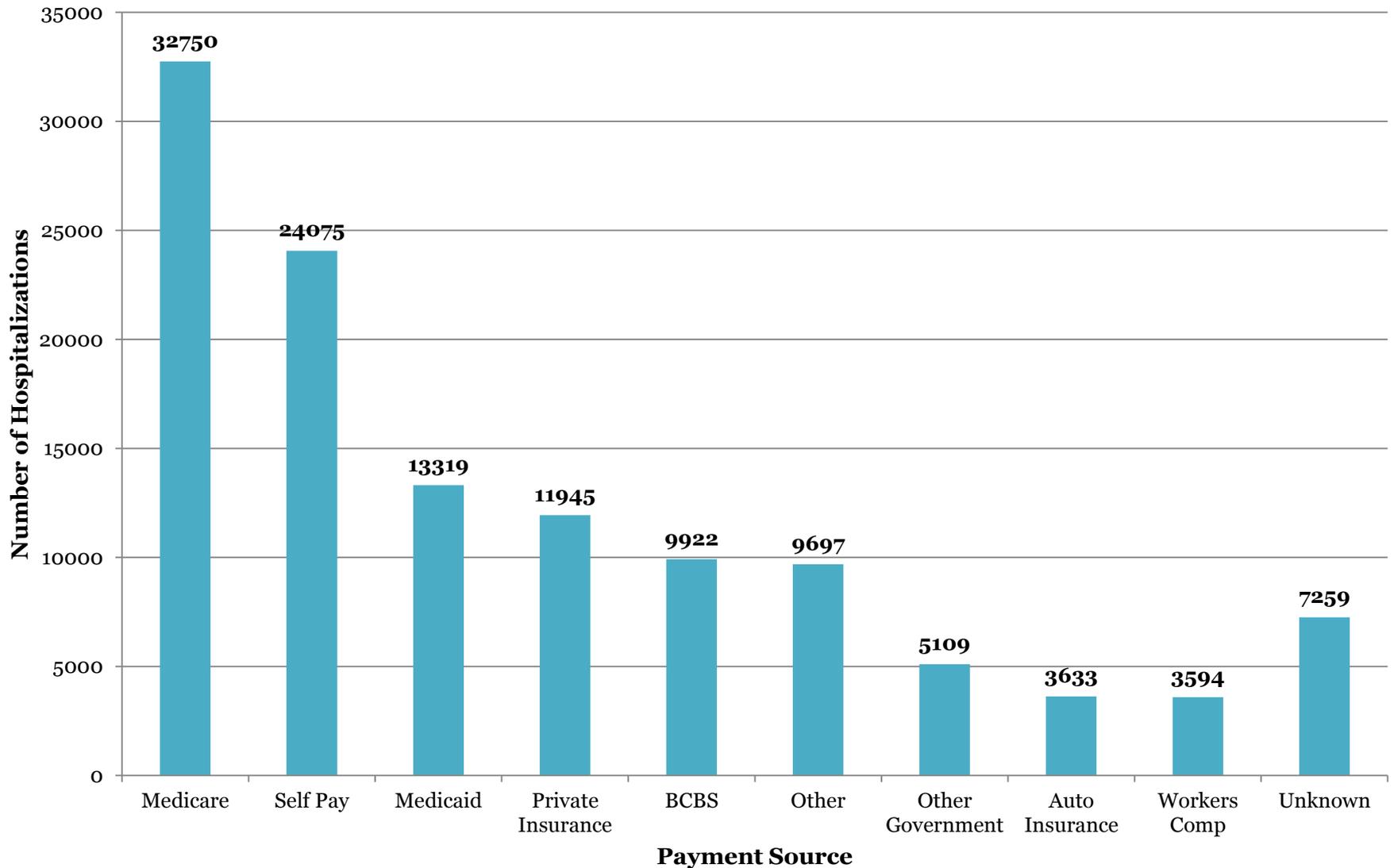


# 2013 Billed Hospital Charges

<b>Sum of Charges</b>	\$4,408,911,772.00
<b>Average Charge</b>	\$47,491.40
<b>Median Charge</b>	\$25,330.00
<b>Minimum Charge</b>	\$50.00
<b>Maximum Charge</b>	\$9,014,220.00

- Responses of \$999,999 and \$9,999,999 or less than \$50 were defined as invalid
- 23.5% or 28,467 records were missing or invalid

# Hospitalizations by Primary Payment Source, Texas 2013



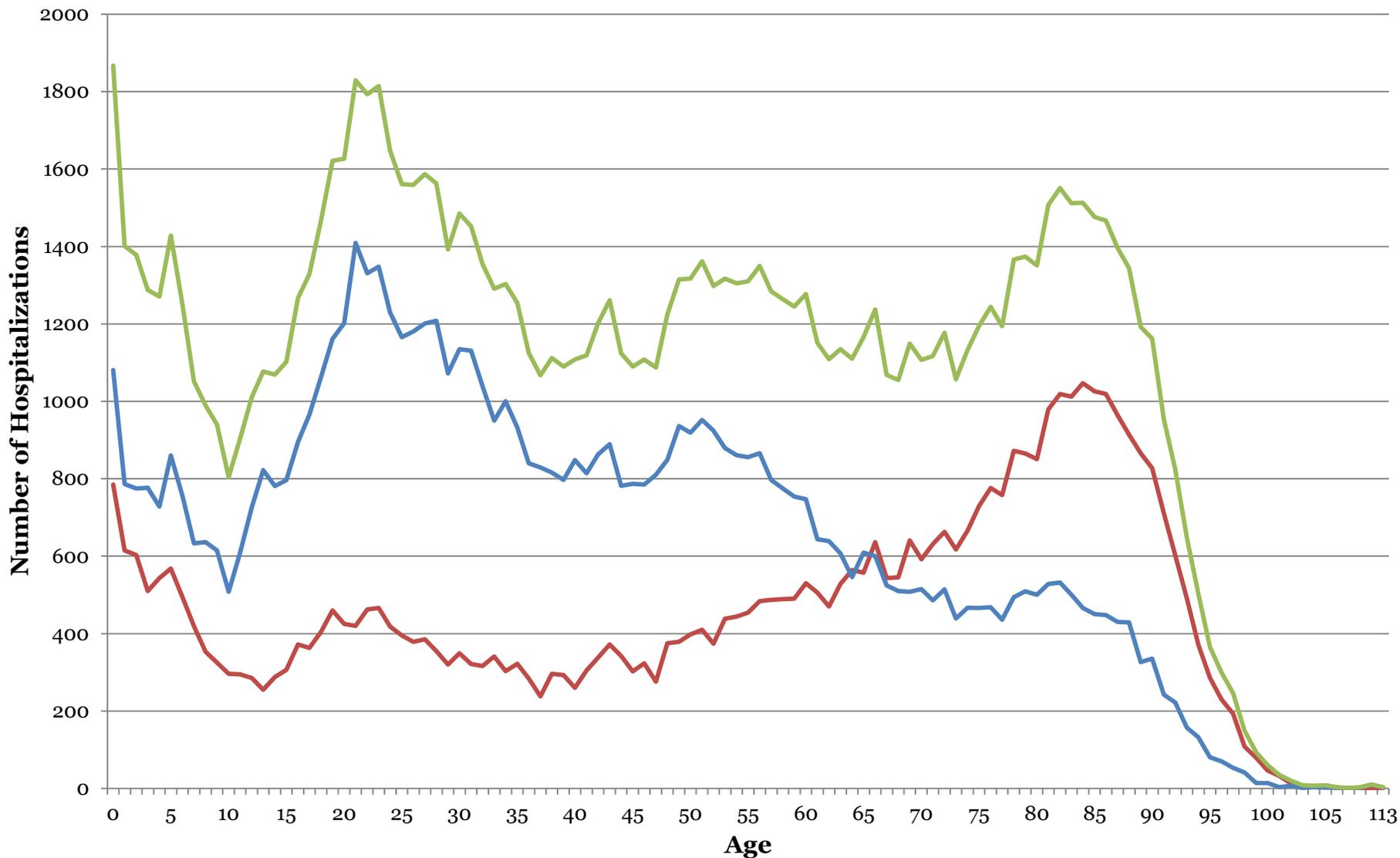
# Condition at Discharge, Texas 2013

<b>Death</b>	3064
<b>Good Recovery</b>	57,801
<b>Moderate Disability</b>	26,279
<b>Severe Disability</b>	1660
<b>Persistent Vegetative State</b>	16
<b>Unknown</b>	32,483
<b>Total</b>	121,303

# Trauma Hospitalizations by Age, Texas 2013

Age	Hospitalizations	Percent	Deaths	Case Fatality Rate
<1	1867	1.54%	47	2.52%
1-4	5338	4.40%	63	1.18%
5-9	5658	4.66%	31	0.55%
10-14	4865	4.01%	39	0.80%
15-19	6787	5.60%	165	2.43%
20-24	8711	7.18%	243	2.79%
25-34	14548	11.99%	392	2.69%
35-44	11461	9.45%	325	2.84%
45-54	12423	10.24%	381	3.07%
55-64	12235	10.09%	370	3.02%
65-74	11266	9.29%	310	2.75%
75-84	13807	11.38%	457	3.31%
85+	12276	10.12%	438	3.57%
Unknown	61	0.05%	0	0.00%
<b>Total</b>	<b>121303</b>	<b>100%</b>	<b>3261</b>	<b>2.69%</b>

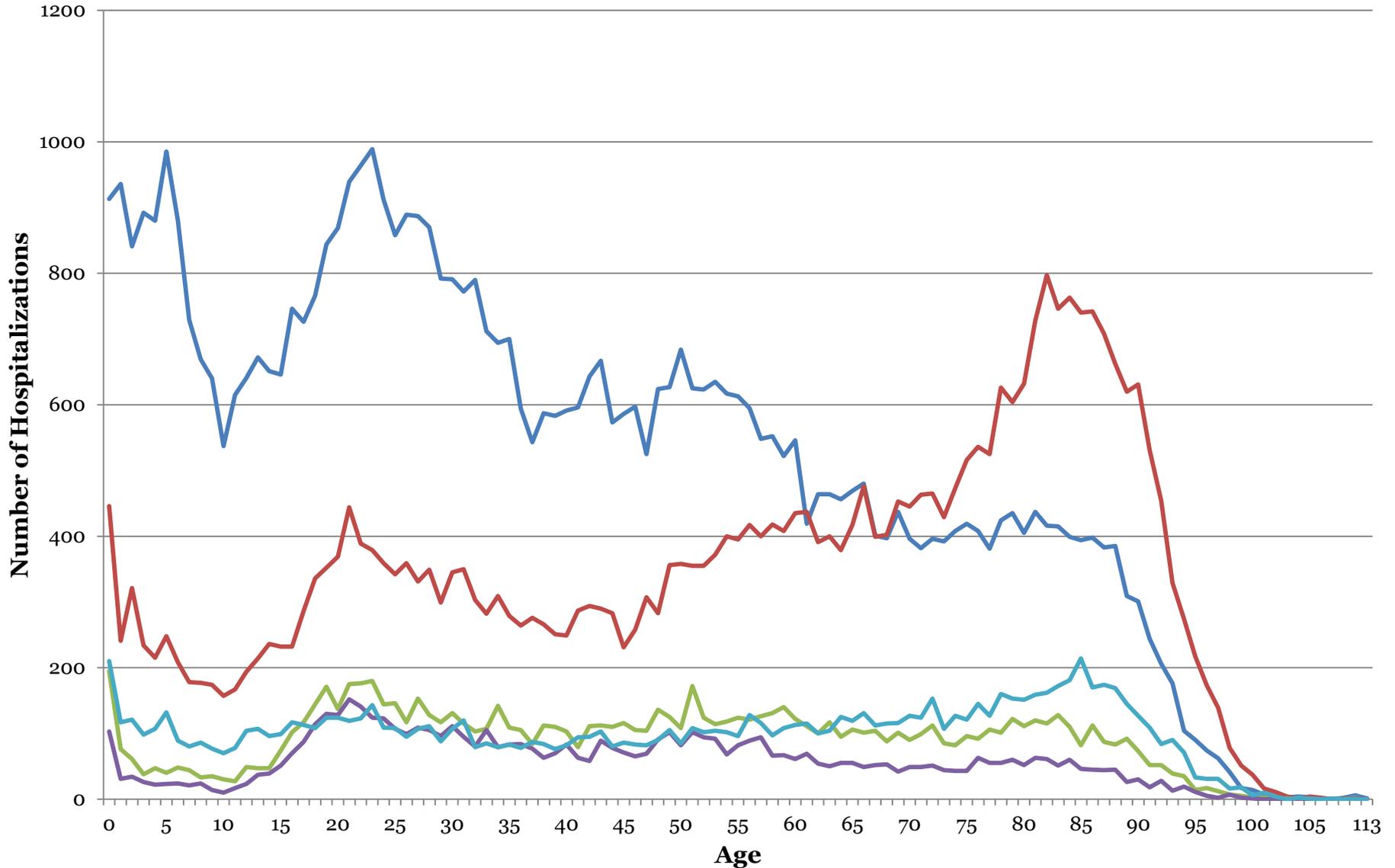
# Hospitalizations by Age, Texas 2013



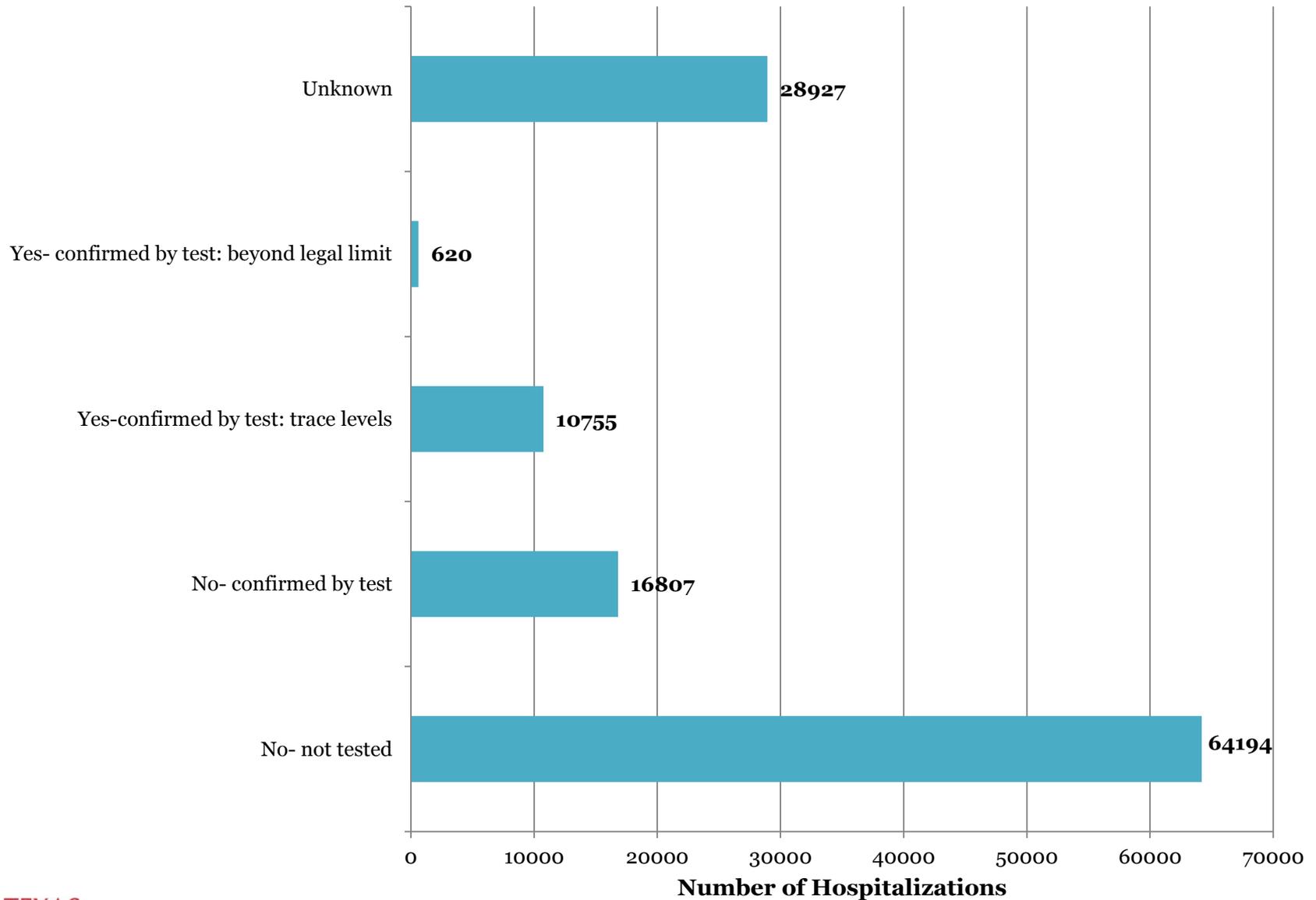
— Female — Male — Total



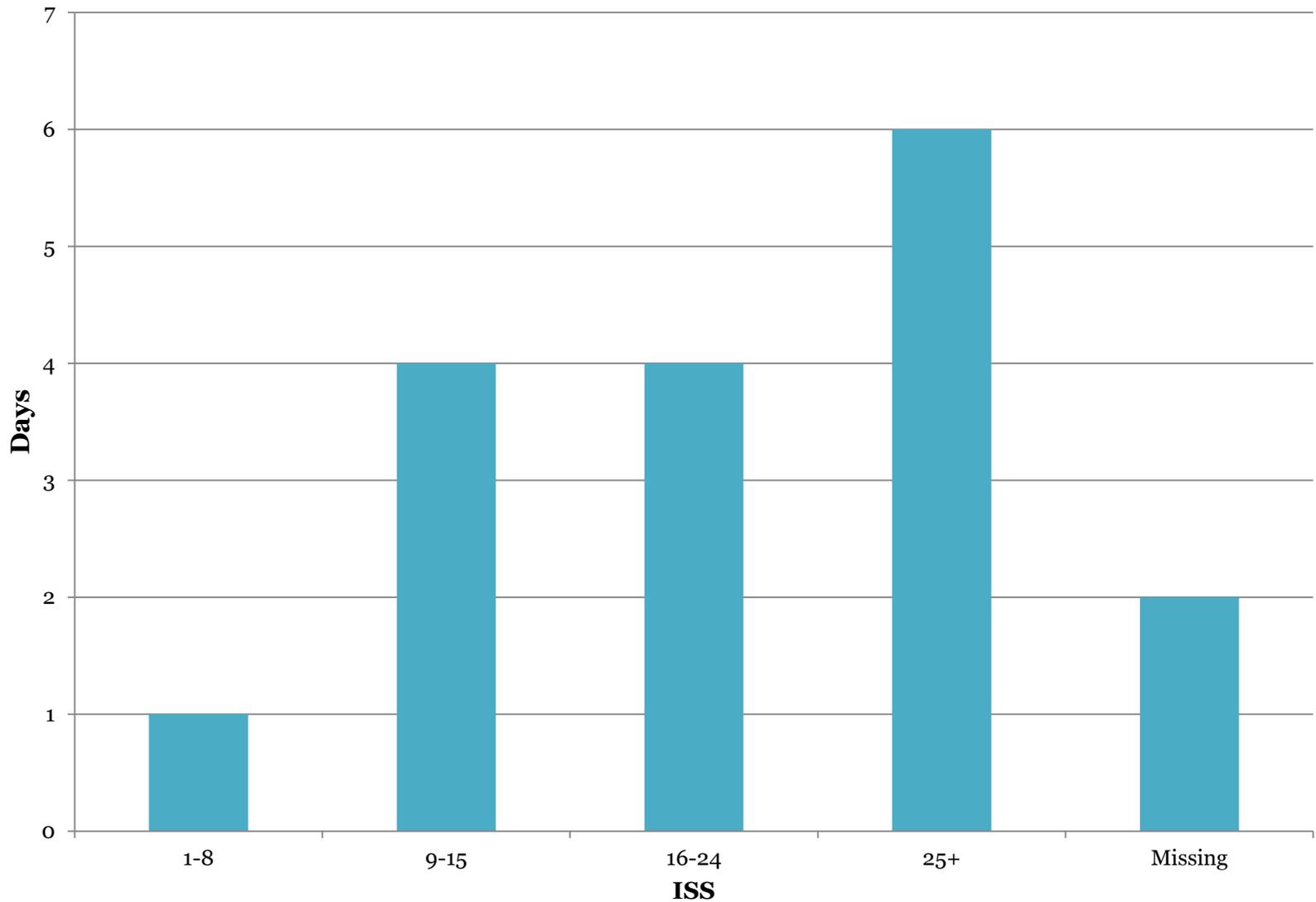
# Injury Severity Score by Age, Texas 2013



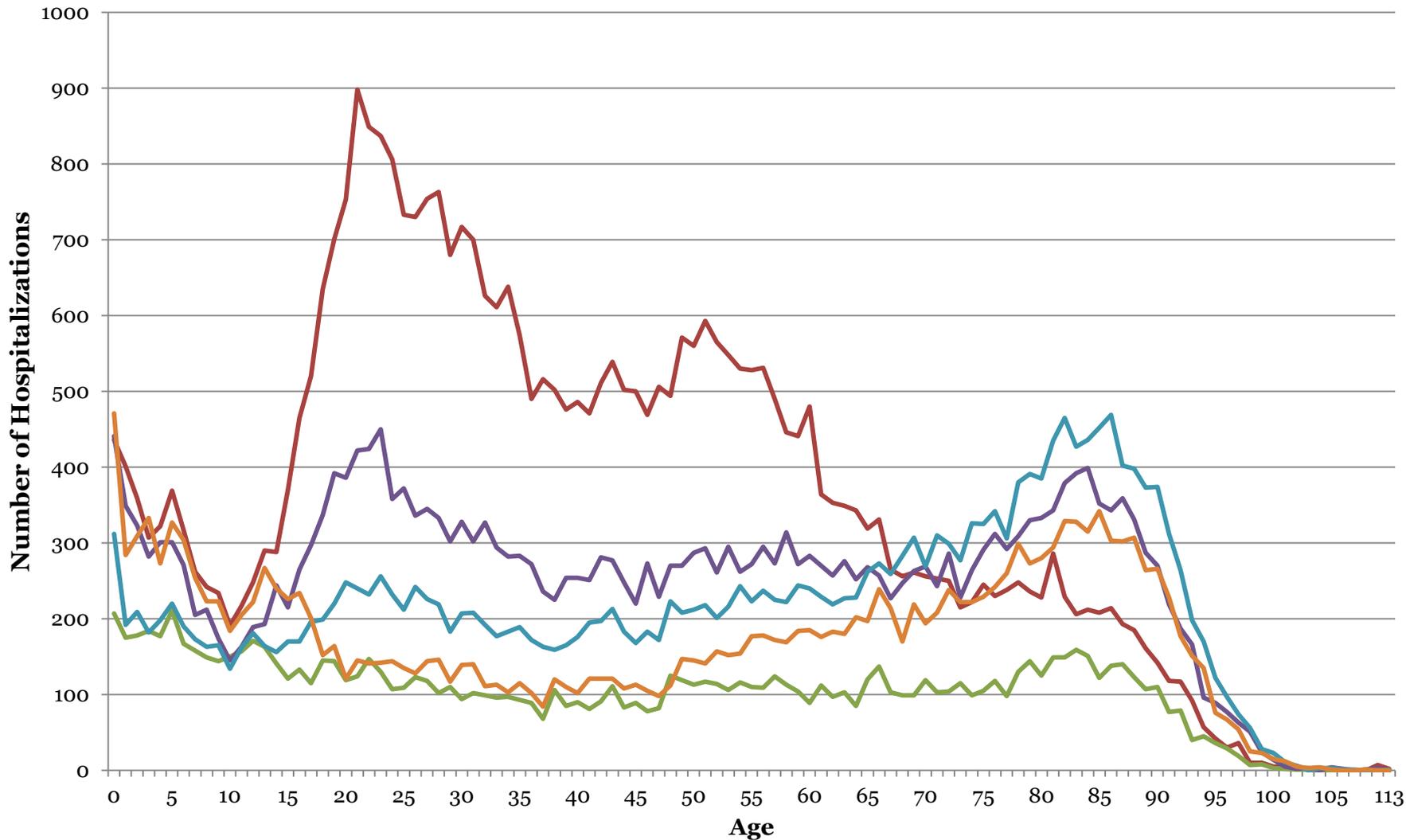
# Alcohol Use, Texas 2013



# Median Length of Stay by ISS, Texas 2013



# Hospitalizations by Trauma Designation and Age, Texas 2013



— Level 1 — Level 2 — Level 3 — Level 4 — Non-Designated

## Level 1 Trauma Hospitalizations by Age, Texas 2013

<b>Age</b>	<b>Hospitalizations</b>	<b>Percent</b>	<b>Deaths</b>	<b>Case Fatality Rate</b>
<b>&lt;1</b>	436	1.10%	17	3.90%
<b>1-4</b>	1389	3.51%	17	1.22%
<b>5-9</b>	1424	3.59%	21	1.47%
<b>10-14</b>	1234	3.11%	18	1.46%
<b>15-19</b>	2691	6.79%	97	3.60%
<b>20-24</b>	4143	10.46%	142	3.43%
<b>25-34</b>	6952	17.54%	219	3.15%
<b>35-44</b>	5067	12.79%	183	3.61%
<b>45-54</b>	5336	13.47%	222	4.16%
<b>55-64</b>	4325	10.91%	194	4.49%
<b>65-74</b>	2628	6.63%	131	4.98%
<b>75-84</b>	2358	5.95%	151	6.40%
<b>85+</b>	1641	4.14%	118	7.19%
<b>Unknown</b>	1	<1%	0	0.00%
<b>Total</b>	39625	100%	1530	3.86%

## Level 2 Trauma Hospitalizations by Age, Texas 2013

<b>Age</b>	<b>Hospitalizations</b>	<b>Percent</b>	<b>Deaths</b>	<b>Case Fatality Rate</b>
<b>&lt;1</b>	207	1.82%	3	1.45%
<b>1-4</b>	714	6.27%	7	0.98%
<b>5-9</b>	829	7.28%	3	0.36%
<b>10-14</b>	782	6.87%	8	1.02%
<b>15-19</b>	658	5.78%	12	1.82%
<b>20-24</b>	627	5.51%	22	3.51%
<b>25-34</b>	1050	9.22%	44	4.19%
<b>35-44</b>	897	7.88%	33	3.68%
<b>45-54</b>	1059	9.30%	48	4.53%
<b>55-64</b>	1046	9.19%	32	3.06%
<b>65-74</b>	1098	9.65%	41	3.73%
<b>75-84</b>	1328	11.67%	65	4.89%
<b>85+</b>	1088	9.56%	58	5.33%
<b>Unknown</b>	0	0%	0	0%
<b>Total</b>	11383	100%	376	3.30%

## Level 3 Trauma Hospitalizations by Age, Texas 2013

Age	Hospitalizations	Percent	Deaths	Case Fatality Rate
<b>&lt;1</b>	441	1.61%	7	1.59%
<b>1-4</b>	1255	4.57%	20	1.59%
<b>5-9</b>	1163	4.24%	2	0.17%
<b>10-14</b>	934	3.40%	4	0.43%
<b>15-19</b>	1506	5.49%	27	1.79%
<b>20-24</b>	2040	7.43%	54	2.65%
<b>25-34</b>	3221	11.73%	81	2.51%
<b>35-44</b>	2581	9.40%	71	2.75%
<b>45-54</b>	2660	9.69%	61	2.29%
<b>55-64</b>	2764	10.07%	80	2.89%
<b>65-74</b>	2552	9.30%	63	2.47%
<b>75-84</b>	3380	12.31%	116	3.43%
<b>85+</b>	2948	10.74%	110	3.73%
<b>Unknown</b>	6	0.02%	0	0%
<b>Total</b>	27451	100%	696	2.54%

# Level 4 Trauma Hospitalizations by Age, Texas 2013

<b>Age</b>	<b>Hospitalizations</b>	<b>Percent</b>	<b>Deaths</b>	<b>Case Fatality Rate</b>
<b>&lt;1</b>	312	1.31%	8	2.56%
<b>1-4</b>	781	3.28%	9	1.15%
<b>5-9</b>	911	3.83%	1	0.11%
<b>10-14</b>	797	3.35%	5	0.63%
<b>15-19</b>	955	4.01%	11	1.15%
<b>20-24</b>	1208	5.07%	21	1.74%
<b>25-34</b>	2049	8.61%	24	1.17%
<b>35-44</b>	1812	7.61%	17	0.94%
<b>45-54</b>	2044	8.58%	27	1.32%
<b>55-64</b>	2294	9.63%	28	1.22%
<b>65-74</b>	2865	12.03%	29	1.01%
<b>75-84</b>	3892	16.35%	63	1.62%
<b>85+</b>	3838	16.12%	79	2.06%
<b>Unknown</b>	53	0.22%	0	0%
<b>Total</b>	23811	100%	322	1.35%

# Non-Designated Hospitalizations by Age, Texas 2013

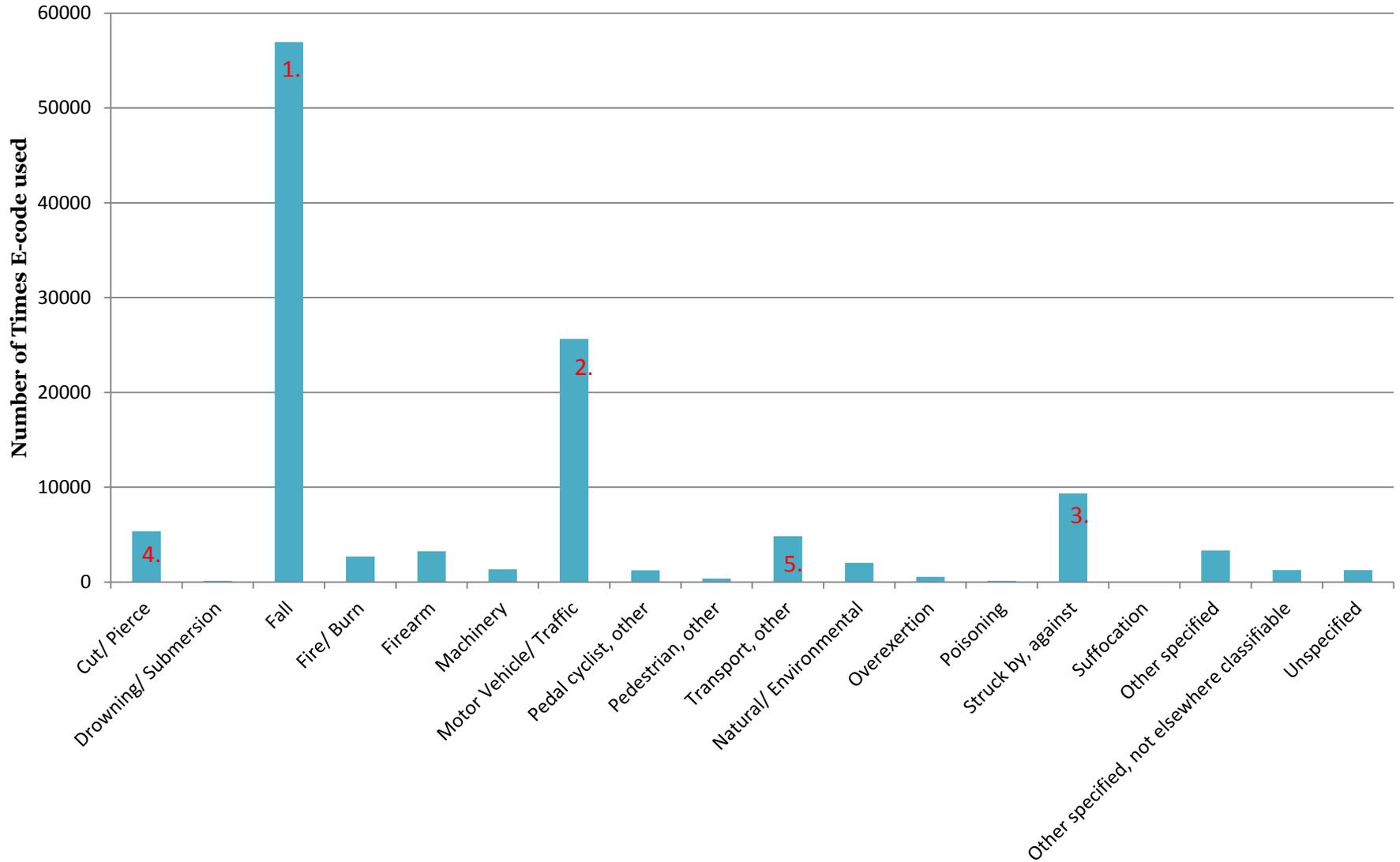
Age	Hospitalizations	Percent	Deaths	Case Fatality Rate
<1	471	2.47%	12	2.55%
1-4	1199	6.30%	10	0.83%
5-9	1331	6.99%	4	0.30%
10-14	1118	5.87%	4	0.36%
15-19	977	5.13%	18	1.84%
20-24	693	3.64%	4	0.58%
25-34	1276	6.70%	24	1.88%
35-44	1104	5.80%	21	1.90%
45-54	1324	6.96%	23	1.74%
55-64	1806	9.49%	36	1.99%
65-74	2123	11.15%	46	2.17%
75-84	2849	14.97%	62	2.18%
85+	2761	14.51%	73	2.64%
Unknown	1	0.01%	0	0%
<b>Total</b>	<b>19033</b>	<b>100%</b>	<b>337</b>	<b>1.77%</b>

# Mechanism of Injury, Texas 2013

External Cause of Injury	E-code count	Percent
Cut/ Pierce	5373	4.49%
Drowning/ Submersion	131	0.11%
Fall	56959	47.55%
Fire/ Burn	2705	2.26%
Firearm	3245	2.71%
Machinery	1352	1.13%
Motor Vehicle/ Traffic	25644	21.41%
Pedal cyclist, other	1234	1.03%
Pedestrian, other	360	0.30%
Transport, other	4838	4.04%
Natural/ Environmental	2028	1.69%
Overexertion	557	0.46%
Poisoning	142	0.12%
Struck by, against	9350	7.81%
Suffocation	29	0.02%
Other specified	3321	2.77%
Other specified, not elsewhere classifiable	1257	1.05%
Unspecified	1270	1.06%
<b>Total</b>	<b>119795</b>	<b>100%</b>

- Not mutually exclusive
- Records contain up to five ICD-9 e-codes; these counts are the number of times each cause of injury code was reported, not the number of hospitalizations
- Based on a framework detailed by the Centers for Disease Control and Prevention. For more details, visit [http://www.cdc.gov/nchs/injury/injury\\_tools.htm](http://www.cdc.gov/nchs/injury/injury_tools.htm)

# Mechanism of Injury, Texas 2013



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## Top 5 Non-Fatal Injury Categories

Rank	Cause of Injury	#	%
1	Fall	54,755	47.93%
2	Motor vehicle/ traffic	23,948	20.96%
3	Struck by, against	9024	7.90%
4	Cut/ pierce	5228	4.58%
5	Transport, other	4711	4.12%

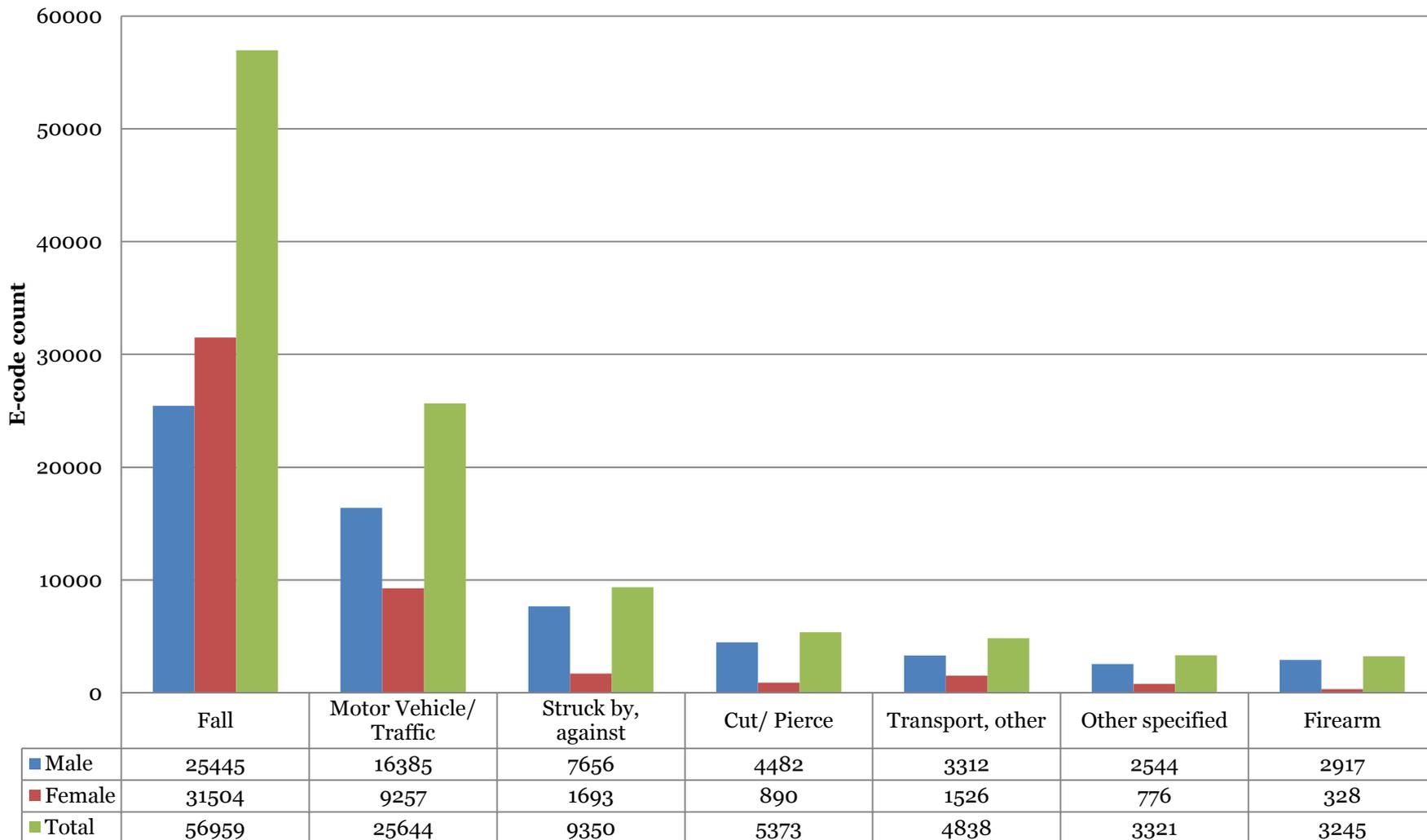
## Top 5 Fatal Injury Categories

Rank	Cause of Injury	#	%
1	Fall	1132	35.18%
2	Motor vehicle/ traffic	1110	34.49%
3	Firearm	457	14.20%
4	Struck by, against	127	3.95%
5	Other, specified	72	2.24%

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# Selected Mechanisms of Injury by Sex, Texas 2013

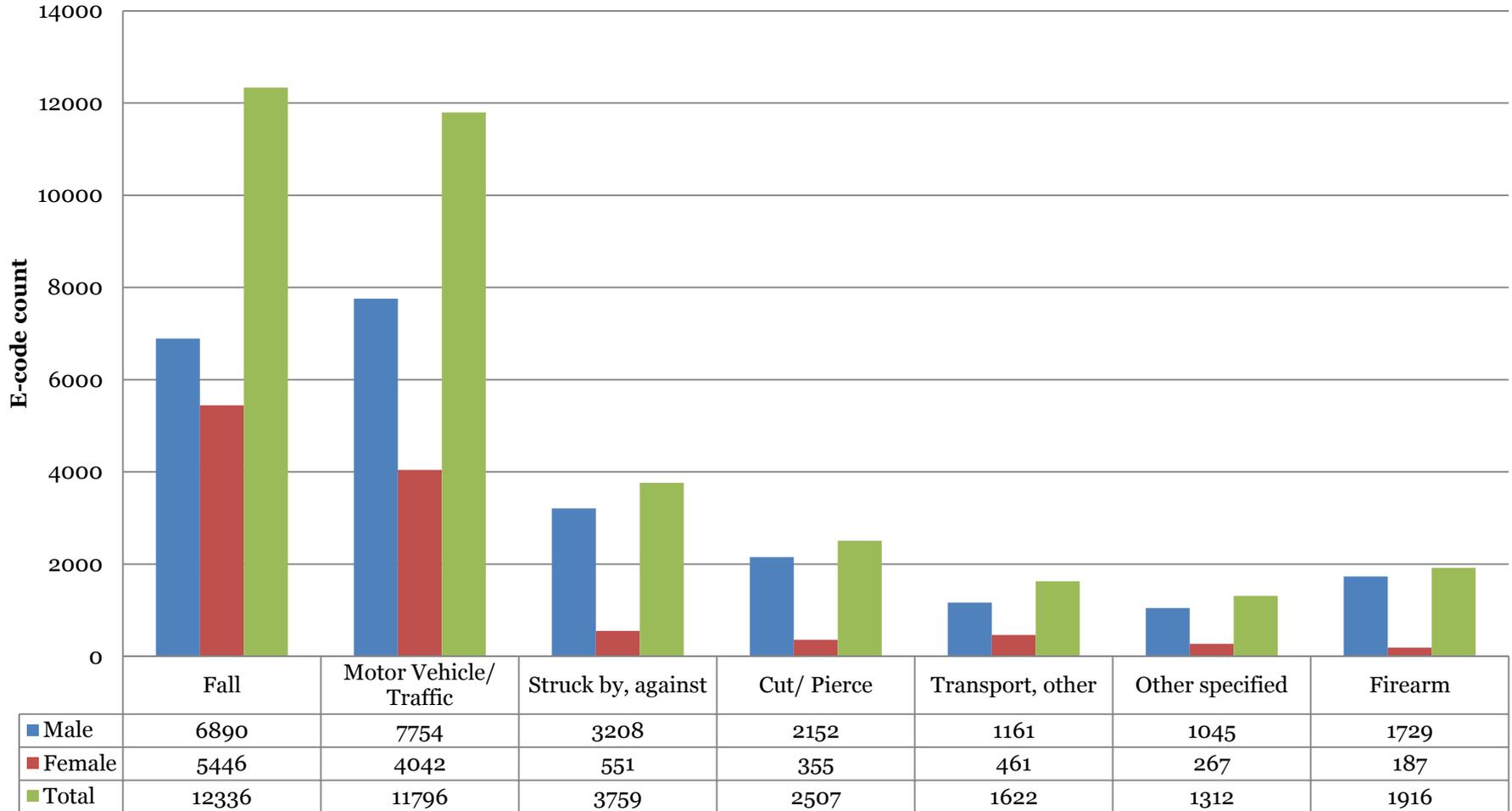
## N=121,303



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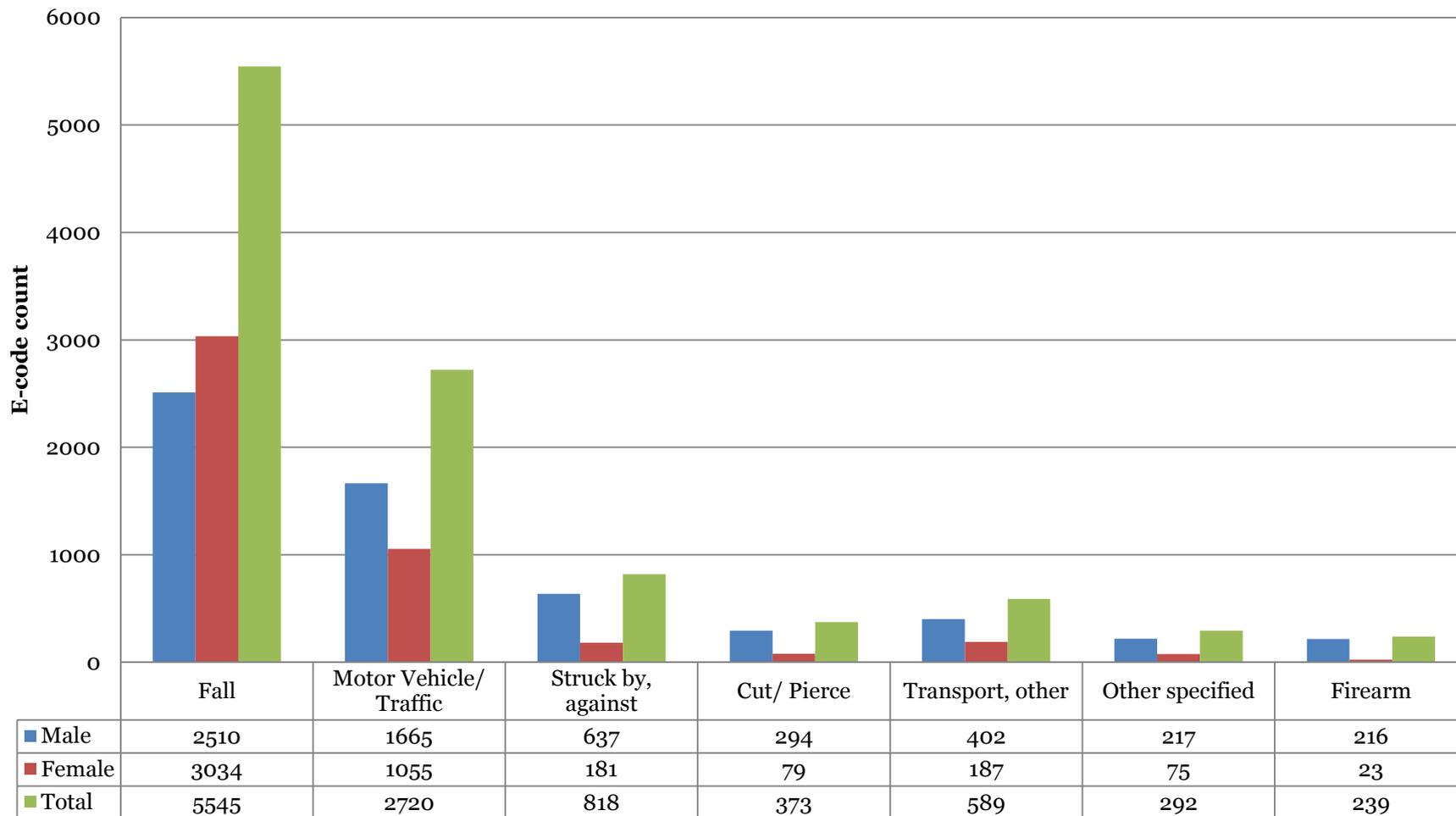
# Level 1 Trauma Centers Selected Mechanisms of Injury by Sex, Texas 2013

## N=39,625



- Not mutually exclusive
- Records contain up to five ICD-9 e-codes; these counts are the number of times each cause of injury code was reported, not the number of hospitalizations
- Based on a framework detailed by the Centers for Disease Control and Prevention. For more details, visit [http://www.cdc.gov/nchs/injury/injury\\_tools.htm](http://www.cdc.gov/nchs/injury/injury_tools.htm)

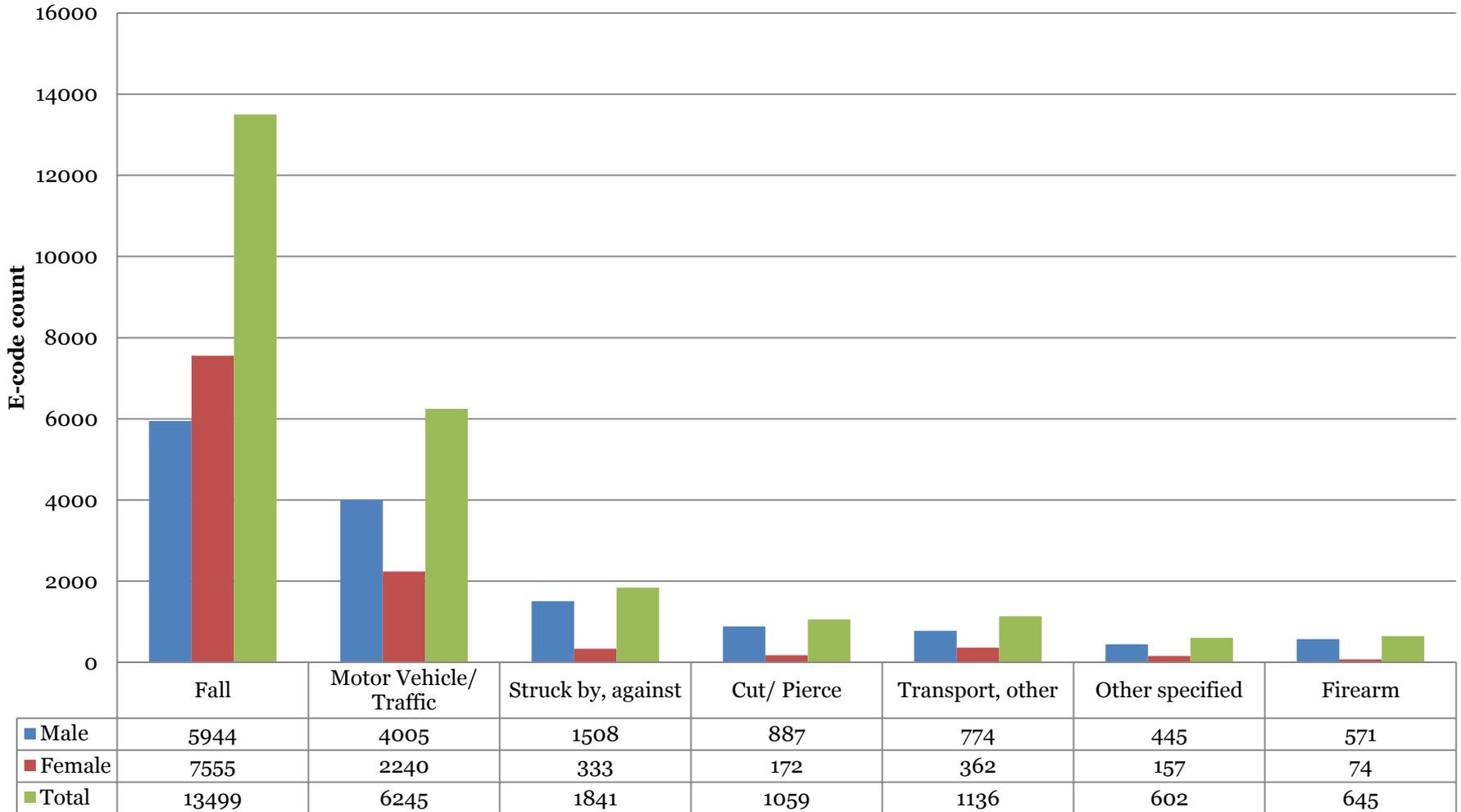
# Level 2 Trauma Centers Selected Mechanisms of Injury by Sex, Texas 2013 N=11,383



- Not mutually exclusive
- Records contain up to five ICD-9 e-codes; these counts are the number of times each cause of injury code was reported, not the number of hospitalizations
- Based on a framework detailed by the Centers for Disease Control and Prevention. For more details, visit [http://www.cdc.gov/nchs/injury/injury\\_tools.htm](http://www.cdc.gov/nchs/injury/injury_tools.htm)

# Level 3 Trauma Centers Selected Mechanisms of Injury by Sex, Texas 2013

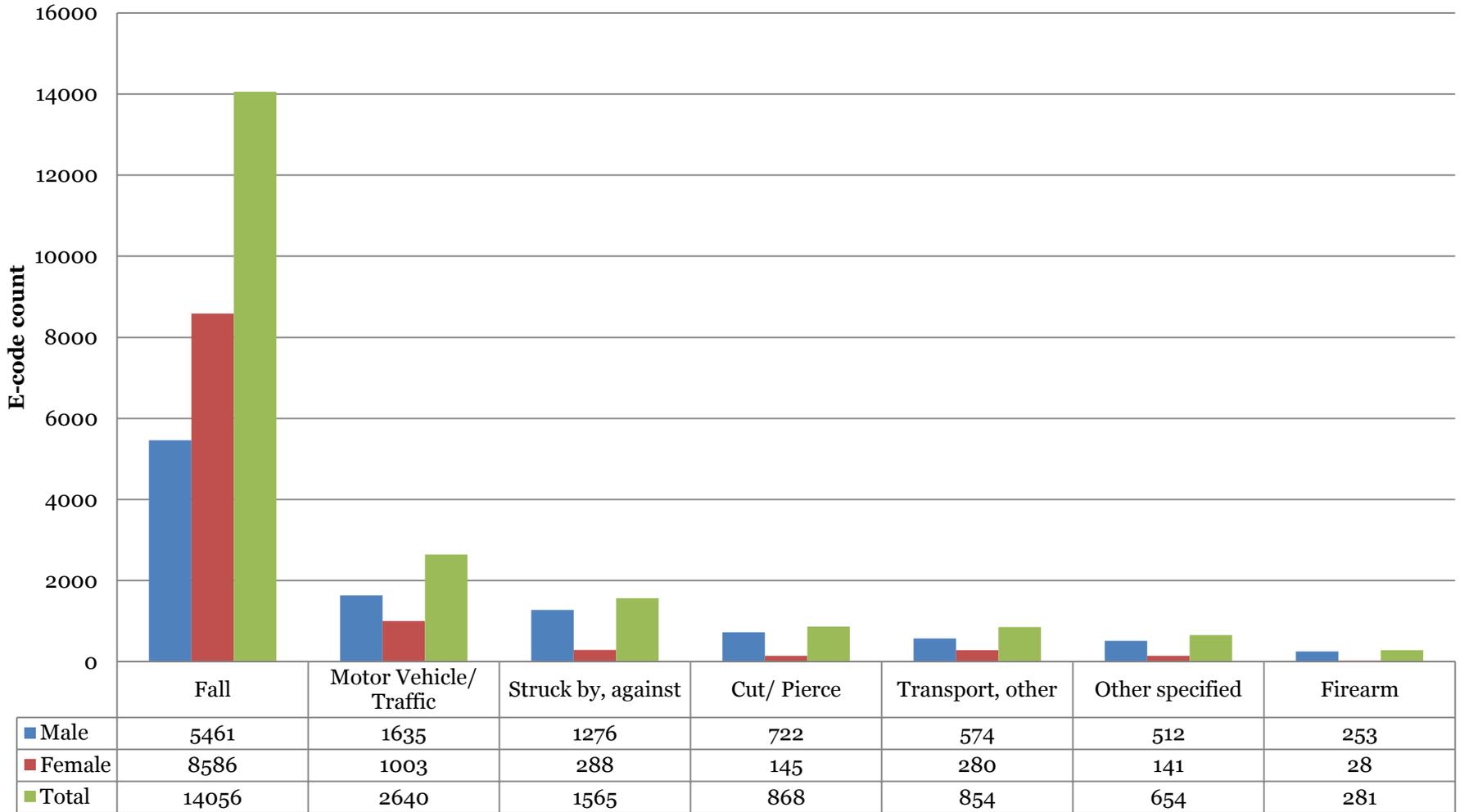
## N=27,451



- Not mutually exclusive
- Records contain up to five ICD-9 e-codes; these counts are the number of times each cause of injury code was reported, not the number of hospitalizations
- Based on a framework detailed by the Centers for Disease Control and Prevention. For more details, visit [http://www.cdc.gov/nchs/injury/injury\\_tools.htm](http://www.cdc.gov/nchs/injury/injury_tools.htm)

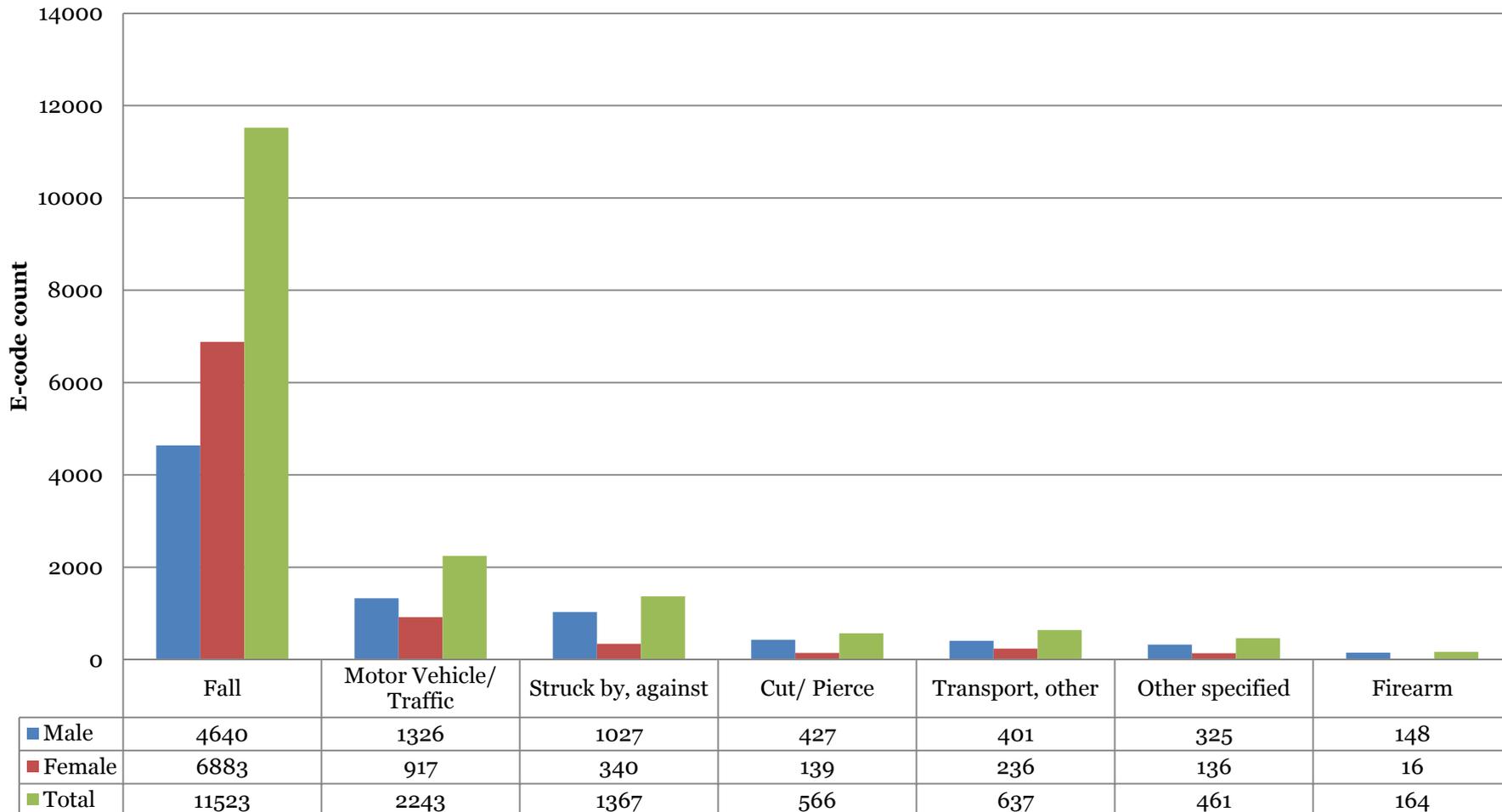
# Level 4 Trauma Centers Selected Mechanisms of Injury by Sex, Texas 2013

## N=23,811



- Not mutually exclusive
- Records contain up to five ICD-9 e-codes; these counts are the number of times each cause of injury code was reported, not the number of hospitalizations
- Based on a framework detailed by the Centers for Disease Control and Prevention. For more details, visit [http://www.cdc.gov/nchs/injury/injury\\_tools.htm](http://www.cdc.gov/nchs/injury/injury_tools.htm)

# Non-Designated Hospitals Selected Mechanisms of Injury by Sex, Texas 2013 N=19,033



- Not mutually exclusive
- Records contain up to five ICD-9 e-codes; these counts are the number of times each cause of injury code was reported, not the number of hospitalizations
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# Hospitalizations by Hospital Designation Level and ISS, Texas 2013

