



# **Mechanism of Injury 2013**

## **Texas EMS/Trauma Registry Hospital Data**

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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 4/4/2014. 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 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

# Overview, Texas 2013

- In 2013, there were a total of **113,358** hospitalizations reported to the Texas EMS/Trauma Registry

## Top 5 reported causes of injury in 2013

1.	Falls
2.	Motor Vehicle/Traffic
3.	Struck by/ Against
4.	Cut/Pierce
5.	Other Transport

## In the registry:

- 59% Male, 41% Female
- 58% White, 9% Black, and 31% Hispanic

## Injury Intent

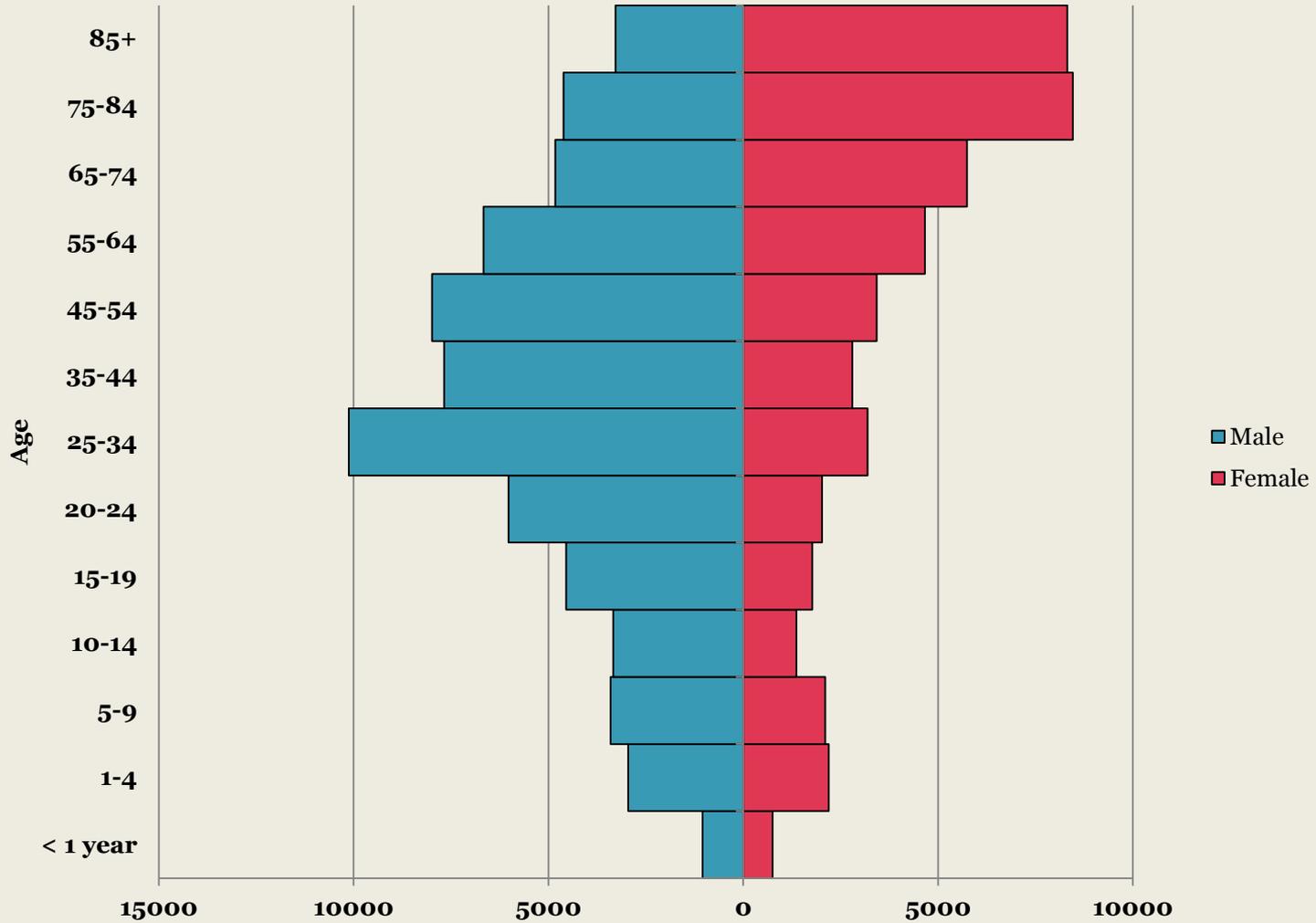
101,139 unintentional (90%)

1,546 self-inflicted (1%)

8,617 assault(8%)

For all except firearm, unintentional injuries were most common: 59% of firearm injuries were assault

# Total Hospitalizations by Age and Sex, 2013



Source: Texas EMS/Trauma Registry  
Data as of: 4/4/2014

# Mechanism of Injury Demographics, 2013

External Cause of Injury	Sex			Race						Ethnicity			Total
	Male	Female	Unknown	White	Black	Asian	Native American	Other	Unknown	Hispanic/Latino	Not Hispanic/Latino	Unknown	
Cut/pierce	4168	819	1	2053	832	39	7	191	1866	1986	2943	59	4988
Drowning/submersion	90	37	0	51	12	1	0	4	59	64	62	1	127
Fall	23865	29769	9	35317	3234	546	36	1313	13197	14083	38401	1159	53643
Fire/burn	1702	822	0	1140	266	29	1	108	980	1035	1462	27	2524
Firearm	2699	310	0	1048	931	32	2	89	907	922	2060	27	3009
Machinery	1178	81	2	648	75	10	1	57	470	529	716	16	1261
Motor vehicle traffic	15074	8556	2	12012	2711	288	29	756	7836	8205	15062	365	23632
Pedal cyclist, other	927	243	0	671	81	26	1	32	359	359	792	19	1170
Pedestrian, other	224	117	0	185	32	4	0	7	113	122	216	3	341
Transport, other	3178	1471	0	3002	284	20	2	118	1223	1276	3301	72	4649
Natural/environment	1168	768	2	1300	104	15	0	45	474	502	1391	45	1938
Overexertion	289	241	0	320	48	2	1	16	143	153	363	14	530
Poisoning	85	55	0	83	15	2	0	7	33	59	77	4	140
Struck by, against	7078	1579	1	3861	1295	78	4	290	3130	3333	5189	136	8658
Suffocation	18	11	0	16	2	0	0	0	11	12	16	1	29
Other specified and classifiable	2309	718	1	1464	314	20	2	122	1106	1213	1765	50	3028
Other specified, not elsewhere classifiable	818	327	0	549	183	11	0	41	361	414	708	23	1145
Unspecified	835	364	0	591	165	7	0	42	394	420	752	27	1199
<b>Total</b>	<b>65705</b>	<b>46288</b>	<b>18</b>	<b>64311</b>	<b>10584</b>	<b>1130</b>	<b>86</b>	<b>3238</b>	<b>32662</b>	<b>34687</b>	<b>75276</b>	<b>2048</b>	<b>112011</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 by Age, 2013

External Cause of Injury	Age														Total
	<1 year	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn own	
Cut/pierce	14	86	114	107	378	763	1353	899	670	376	153	61	14	0	4988
Drowning/submersion	8	53	14	17	6	6	10	1	3	6	2	1	0	0	127
Fall	992	2531	2884	1499	950	906	1993	2390	3790	5869	7642	11335	10831	31	53643
Fire/burn	86	509	177	116	94	220	361	257	287	202	102	78	35	0	2524
Firearm	6	9	27	61	337	600	904	463	312	172	71	36	11	0	3009
Machinery	2	8	9	9	47	118	266	240	246	165	111	34	6	0	1261
Motor vehicle traffic	153	579	744	763	2252	3119	4544	3138	3213	2538	1395	877	309	8	23632
Pedal cyclist, other	1	43	189	189	57	75	111	102	156	143	76	22	4	2	1170
Pedestrian, other	3	32	24	19	19	30	45	47	42	39	17	20	4	0	341
Transport, other	11	107	304	537	577	517	727	589	532	411	205	91	40	1	4649
Natural/environment	21	226	229	146	100	89	196	246	261	224	125	54	20	1	1938
Overexertion	10	16	20	47	54	23	70	55	60	49	48	44	34	0	530
Poisoning	4	7	7	10	15	14	16	24	21	11	7	3	1	0	140
Struck by, against	68	486	479	837	1002	967	1642	1129	1008	570	249	142	72	7	8658
Suffocation	0	7	3	1	1	3	6	2	0	2	1	2	1	0	29
Other specified and classifiable	225	277	169	186	168	269	524	413	385	231	105	51	22	3	3028
Other specified, not elsewhere classifiable	28	45	47	42	105	135	221	189	128	101	54	33	16	1	1145
Unspecified	129	74	21	28	54	107	160	149	153	100	73	77	73	1	1199
<b>Total</b>	<b>1761</b>	<b>5095</b>	<b>5461</b>	<b>4614</b>	<b>6216</b>	<b>7961</b>	<b>13149</b>	<b>10333</b>	<b>11267</b>	<b>11209</b>	<b>10436</b>	<b>12961</b>	<b>11493</b>	<b>55</b>	<b>112011</b>

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# Mechanism of Injury by Intent, 2013

External Cause of Injury	Manner/Intent					Total	Percent
	Uninten- tional	Self- Inflicted	Assault	Other	Undeter- mined		
4 Cut/pierce	2468	588	1858	4	70	4988	4.5%
Drowning/submersion	123	1	1	0	2	127	0.1%
1 Fall	53471	120	16	0	36	53643	47.9%
Fire/burn	2458	21	26	0	19	2524	2.3%
Firearm	621	437	1766	80	105	3009	2.7%
Machinery	1261	0	0	0	0	1261	1.1%
2 Motor vehicle traffic	23561	24	41	0	6	23632	21.1%
Pedal cyclist, other	1170	0	0	0	0	1170	1.0%
Pedestrian, other	341	0	0	0	0	341	0.3%
5 Transport, other	4649	0	0	0	0	4649	4.2%
Natural/environmental	1938	0	0	0	0	1938	1.7%
Overexertion	530	0	0	0	0	530	0.5%
Poisoning	79	50	0	0	11	140	0.1%
3 Struck by, against	4927	148	3508	57	18	8658	7.7%
Suffocation	29	0	0	0	0	29	0.0%
Other specified and classifiable	2415	23	546	26	18	3028	2.7%
Other specified, not elsewhere classifiable	546	124	383	3	89	1145	1.0%
Unspecified	552	10	472	6	159	1199	1.1%
<b>Total</b>	<b>101139</b>	<b>1546</b>	<b>8617</b>	<b>176</b>	<b>533</b>	<b>112011</b>	<b>100%</b>

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# Top 5 Leading Causes of Injury by Age Group, Texas 2013

Age Group	Rank				
	1	2	3	4	5
<1 year	Fall	Other specified and classifiable	Motor vehicle traffic	Unspecified	Fire/burn
1-4	Fall	Motor vehicle traffic	Fire/burn	Struck by, against	Other specified and classifiable
5-9	Fall	Motor vehicle traffic	Struck by, against	Transport, other	Natural/ environment
10-14	Fall	Struck by, against	Motor vehicle traffic	Transport, other	Pedal cyclist, other
15-19	Motor vehicle traffic	Struck by, against	Fall	Transport, other	Cut/pierce
20-24	Motor vehicle traffic	Struck by, against	Fall	Cut/pierce	Firearm
25-34	Motor vehicle traffic	Fall	Struck by, against	Cut/pierce	Firearm
35-44	Motor vehicle traffic	Fall	Struck by, against	Cut/pierce	Transport, other
45-54	Fall	Motor vehicle traffic	Struck by, against	Cut/pierce	Transport, other
55-64	Fall	Motor vehicle traffic	Struck by, against	Transport, other	Cut/pierce
65-74	Fall	Motor vehicle traffic	Struck by, against	Transport, other	Cut/pierce
75-85	Fall	Motor vehicle traffic	Struck by, against	Transport, other	Fire/burn
85+	Fall	Motor vehicle traffic	Unspecified	Struck by, against	Transport, other

- This is based on the number of times each e-code was used, not the number of hospitalizations
- This includes all injuries in the registry, regardless of intent

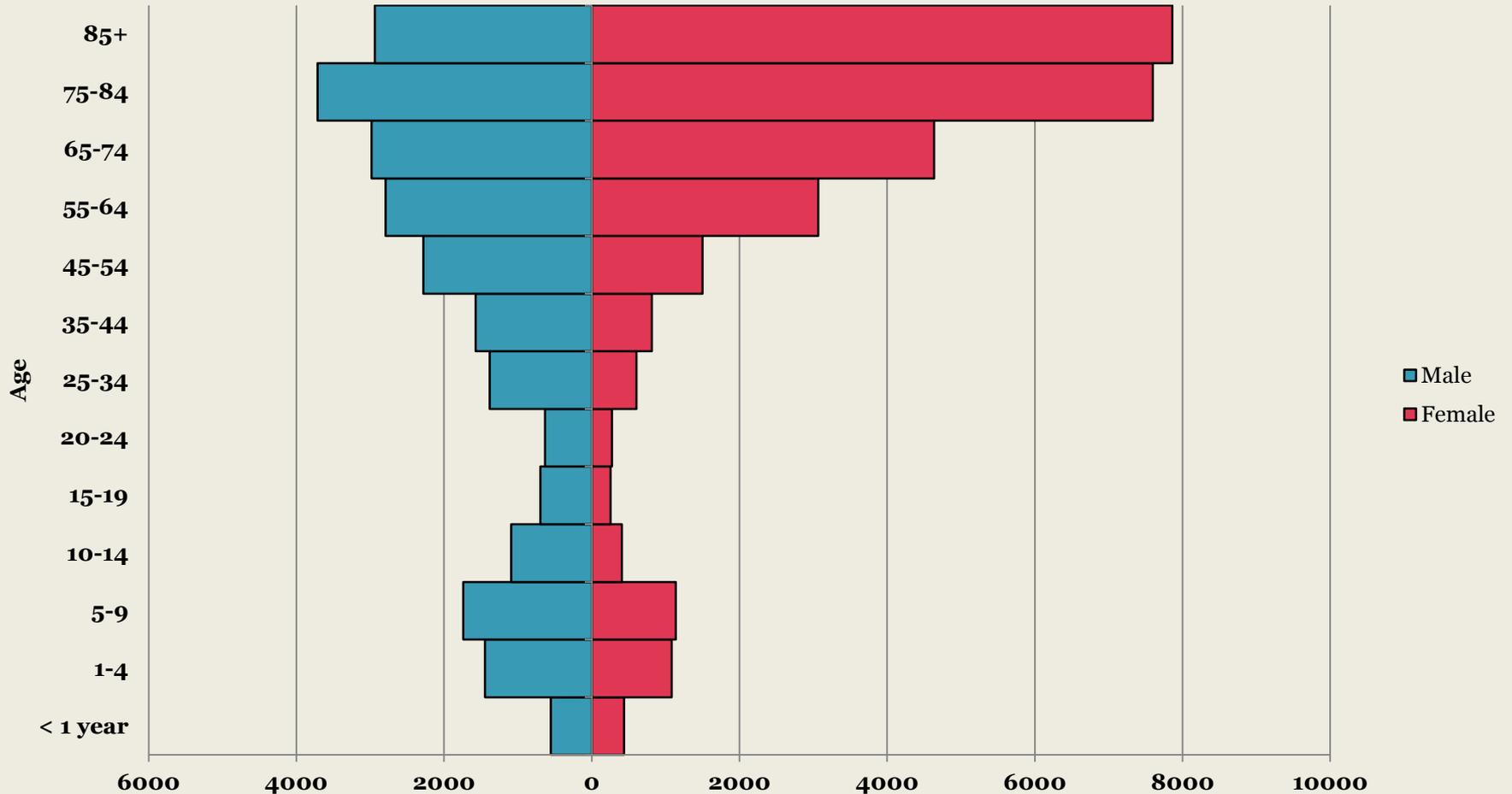
Source: Texas EMS/Trauma Registry  
Data as of: 4/4/2014

# Falls

- In 2013, there were 53,534 hospitalizations due to a fall
- Falls make up almost half of all injuries reported to the registry
- 45% were male, 55% were female
- Over half were 65 years old or older
- About 99.7% were unintentional

# Falls

## Number of Fall Hospitalizations by Age and Sex, 2013

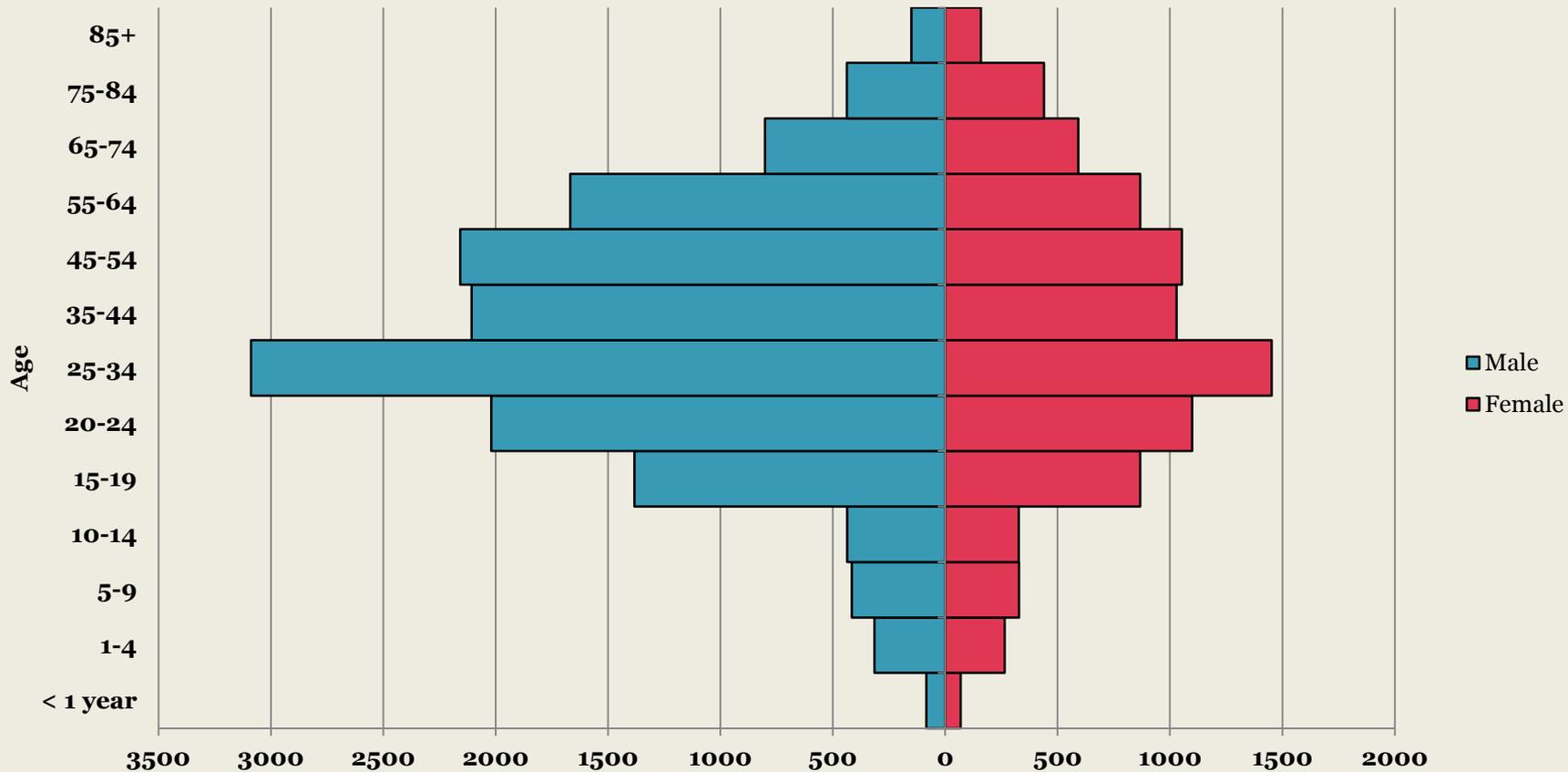


# Motor Vehicle/ Traffic

- In 2013, there were 23,624 hospitalizations due to motor vehicle/traffic related injuries
- These injuries make up about 20% of all injuries reported to the registry
- 64% were male and 36% were female
- About 70% were between 20-64 years old
- 99.7% were unintentional

# Motor Vehicle/ Traffic

## Number of Motor Vehicle/ Traffic Hospitalizations by Age and Sex, 2013



# Contact Info

Texas EMS/Trauma Registry

[www.dshs.state.tx.us/injury](http://www.dshs.state.tx.us/injury)

[injury.web@dshs.state.tx.us](mailto:injury.web@dshs.state.tx.us)

