Top 5 Causes of Death Due to Injury- 2005 Vital Statistics Data

Considerations for the 2005 Vital Statistics Data

- 1. All data reported are the most recent available.
- 2. Death data are based on a subset of variables collected on the Texas Certificate of Death. Cases include all Texas residents who died during the 2005 calendar year, including those who died while traveling outside of Texas.
 - Deaths from non-Texas residents who died in Texas are not included.
- 3. 2005 data are preliminary and are subject to change.
- 4. "Underlying Cause of Death" is coded using the International Classification of Diseases 10th Revision classification schemes.
 - Causes of Injury are categorized using the CDC ICD-10 External Cause of Injury Mortality Matrix.
- 5. Age
 - Age is categorized into the following groups: Less than 1 year of age, 1-14 years, 15-24 years, 25-34 years, 35-44 years, 45-54 years, 55-64 years, 65-74 years, and 75+ years of age.
- 6. Any rate with a frequency less than 20 is considered unstable and should be interpreted with caution.
- 7. For more information regarding Texas Vital Statistics Death Data, visit: http://www.dshs.state.tx.us/CHS/VSTAT/

Top 5 Causes of Death Due to Injury- 2005 Vital Statistics Data

			Rate per
Underlying Cause of Death	Deaths	Percent	100,000
Unintentional - Motor vehicle traffic	3,704	29.3%	16.1
Suicide	2,400	19.0%	10.4
Unintentional - Poisoning	1,580	12.5%	6.9
Homicide	1,496	11.8%	6.5
Unintentional - Falls	1,174	9.3%	5.1
Total	12,642	100.0%	55.3

Motor vehicle traffic

Age Category	Frequency	Percent	Rate per 100,000
Less than 1	21	0.6%	5.6
1-14 Years	217	5.9%	4.6
15-24 Years	904	24.4%	26.1
25-34 Years	639	17.3%	19.0
35-44 Years	572	15.4%	17.0
45-54 Years	492	13.3%	16.5
55-64 Years	336	9.1%	17.1
65-74 Years	235	6.3%	19.6
75+ Years	288	7.8%	28.6
Unknown	0	0.0%	
Total	3,704	100.0%	16.1

Suicide

			Rate per
Age Category	Frequency	Percent	100,000
Less than 1	0	0.0%	0.0
1-14 Years	22	0.9%	0.5
15-24 Years	366	15.3%	10.6
25-34 Years	414	17.3%	12.3
35-44 Years	482	20.1%	14.3
45-54 Years	496	20.7%	16.6
55-64 Years	283	11.8%	14.4
65-74 Years	158	6.6%	13.2
75+ Years	179	7.5%	17.8
Unknown	0	0.0%	
Total	2,400	100.0%	10.4

Unintentional poisoning and exposure to noxious substances

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Age Category	Frequency	Percent	Rate per 100,000	
Less than 1	1	0.1%	0.3	
1-14 Years	7	0.4%	0.1	
15-24 Years	196	12.4%	5.7	
25-34 Years	274	17.3%	8.1	
35-44 Years	472	29.9%	14.0	
45-54 Years	437	27.7%	14.7	
55-64 Years	132	8.4%	6.7	
65-74 Years	33	2.1%	2.8	
75+ Years	28	1.8%	2.8	
Unknown	0	0.0%		
Total	1,580	100.0%	6.9	

Homicide

Ama Catamanu	Francis	Percent	Rate per
Age Category	Frequency	Percent	100,000
Less than 1	20	1.3%	5.3
1-14 Years	82	5.5%	1.7
15-24 Years	398	26.6%	11.5
25-34 Years	391	26.1%	11.6
35-44 Years	290	19.4%	8.6
45-54 Years	175	11.7%	5.9
55-64 Years	71	4.7%	3.6
65-74 Years	32	2.1%	2.7
75+ Years	35	2.3%	3.5
Unknown	2	0.1%	
Total	1,496	100.0%	6.5

Falls

			Rate per
Age Category	Frequency	Percent	100,000
Less than 1	3	0.3%	0.8
1-14 Years	5	0.4%	0.1
15-24 Years	14	1.2%	0.4
25-34 Years	22	1.9%	0.7
35-44 Years	39	3.3%	1.2
45-54 Years	62	5.3%	2.1
55-64 Years	85	7.2%	4.3
65-74 Years	140	11.9%	11.7
75+ Years	803	68.4%	79.8
Unknown	1	0.1%	
Total	1,174	100.0%	5.1

Top 5 Causes of Disability Due to Injury- 2004 Hospital EMS/Trauma Registry Data

Considerations for the Hospital Admissions Data

- 1. All data reported are the most recent available.
- 2. Per the Texas Administrative Code (TAC), Rule §103.11 Definitions, hospitals are required to submit patient records for traumas that meet the following criteria:
 - a. Patient was admitted for greater than 48 hrs OR
 - Patient was seen, received stabilization care, and then transferred to a higher-level acute care hospital (ACH) OR
 - c. Patient died after receiving any evaluation or treatment or was dead on arrival AND
 - d. Patient has sustained at least one injury between ICD-9-CM² diagnostic codes 800.0 and 959.9, excluding 905-909, 910-924, and 930-939.

Please note that Emergency Department data is not collected by the state.

- 3. In these data, a patient is disabled if the field, Condition on Discharge, is recorded as 2="Alive, Expected Moderate Recovery" or 3="Alive, Expected Severe Disability".
- 4. The aggregate totals associated with each reporting year are in terms of hospitalizations and not necessarily in terms of patients. A patient that sustains a traumatic injury may receive stabilizing care at one medical facility before being transferred to another facility. Each admission generates a record that contributes to the total number of trauma-related records.
- 5. "Underlying Cause of Injury" (Informally known as "E-Codes") is coded using International Classification of Diseases 9th Revision, Clinical Modification (ICD-9-CM).
 - Causes of Injury are categorized using the EPIC ICD-9 Cause of Injury Definition Codes.
- 6. Age
 - a. Ages between 0 and 120 are generally considered valid. All other ages are listed as unknown.
 - b. Age is a calculated field based on the reported date of birth and date of hospital admission. If date of birth is not complete but year of birth is available, age is obtained by subtracting the year of birth from the year of admission.
 - c. Age is categorized into the following groups: Less than 1 year of age, 1-14 years, 15-24 years, 25-34 years, 35-44 years, 45-54 years, 55-64 years, 65-74 years, 75-84 years, and 85 + years of age.
- 7. Any rate with a frequency less than 20 is considered unstable and should be interpreted with caution.
- 8. For more information regarding Texas Hospital EMS/Trauma Registry Data, visit: http://www.dshs.state.tx.us/injury/.

² International Classification of Diseases, 9th Revision, Clinical Modification.

The registry will accept records where the patient's stay is less than 48 hours and he/she does not transfer to another ACH.

Top 5 Causes of Disability Due to Injury- 2004 Hospital **EMS/Trauma Registry Data**

Underlying Cause of Injury	Frequency	Percent	Rate per 100,000
Unintentional - Fall	6,764	41.2%	30.1
Unintentional - Motor Vehicle Traffic	4,883	29.7%	21.7
Assault	1,331	8.1%	5.9
Unintentional - Struck by object	460	2.8%	2.0
Unintentional - Cut/ Pierce	316	1.9%	1.4
Total	16,422	100.0%	73.0

Unintentional - Fall

Ommember	ı ı uıı		
			Rate per
Age Category	Frequency	Percent	100,000
Less than 1	46	0.7%	12.3
1-14 Years	576	8.5%	12.1
15-24 Years	289	4.3%	8.3
25-34 Years	344	5.1%	10.2
35-44 Years	485	7.2%	14.4
45-54 Years	593	8.8%	19.9
55-64 Years	632	9.3%	32.2
65-74 Years	851	12.6%	70.9
75-84 Years	1,639	24.2%	217.9
85+ Years	1,307	19.3%	513.8
Unknown	2	0.0%	
Total	6,764	100.0%	30.1

Unintentional - Motor Vehicle Traffic

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Age Category	Frequency	Percent	Rate per 100,000
Less than 1	9	0.2%	2.4
1-14 Years	362	7.4%	7.6
15-24 Years	1,259	25.8%	36.3
25-34 Years	902	18.5%	26.8
35-44 Years	787	16.1%	23.4
45-54 Years	680	13.9%	22.8
55-64 Years	393	8.0%	20.0
65-74 Years	245	5.0%	20.4
75-84 Years	185	3.8%	24.6
85+ Years	58	1.2%	22.8
Unknown	3	0.1%	
Total	4,883	100.0%	21.7

Assault

			Rate per
Age Category	Frequency	Percent	100,000
Less than 1	52	3.9%	13.9
1-14 Years	42	3.2%	0.9
15-24 Years	414	31.1%	12.0
25-34 Years	333	25.0%	9.9
35-44 Years	267	20.1%	7.9
45-54 Years	159	11.9%	5.3
55-64 Years	40	3.0%	2.0
65-74 Years	9	0.7%	8.0
75-84 Years	10	0.8%	1.3
85+ Years	2	0.2%	8.0
Unknown	3	0.2%	
Total	1,331	100.0%	5.9

Unintentional - Struck by object

		· ·	Rate per
Age Category	Frequency	Percent	100,000
Less than 1	4	0.9%	1.1
1-14 Years	88	19.1%	1.8
15-24 Years	101	22.0%	2.9
25-34 Years	70	15.2%	2.1
35-44 Years	74	16.1%	2.2
45-54 Years	56	12.2%	1.9
55-64 Years	27	5.9%	1.4
65-74 Years	16	3.5%	1.3
75-84 Years	19	4.1%	2.5
85+ Years	5	1.1%	2.0
Unknown	0	0.0%	
Total	460	100.0%	2.0

Unintentional - Cut/ Pierce

			Rate per
Age Category	Frequency	Percent	100,000
Less than 1	0	0.0%	0.0
1-14 Years	17	5.4%	0.4
15-24 Years	79	25.0%	2.3
25-34 Years	71	22.5%	2.1
35-44 Years	75	23.7%	2.2
45-54 Years	44	13.9%	1.5
55-64 Years	19	6.0%	1.0
65-74 Years	7	2.2%	0.6
75-84 Years	4	1.3%	0.5
85+ Years	0	0.0%	0.0
Unknown	0	0.0%	
Total	316	100.0%	1.4

Top 5 Causes of Injury by Hospital Charges - 2006 Hospital Discharge Data

Considerations for the Hospital Discharge Data

- 1. All data reported are the most recent available.
- "Underlying Cause of Injury" (Informally known as "E-Codes") is coded using International Classification of Diseases 9th Revision, Clinical Modification (ICD-9-CM).
 - Causes of Injury are categorized using the EPIC ICD-9 Cause of Injury Definition Codes.
 - b) Underlying cause of injury was obtained using the primary external cause of injury. Secondary external cause of injury was not considered in these data.

2. Charges

- Charges were obtained from the field Total_Charges, which is the sum of accommodation charges, non-covered accommodation charges, ancillary charges, and non-covered ancillary charges.
- Charges are <u>not</u> equal to actual payments received by the hospital or hospital
 cost for performing the service. Typically, actual payments are much less than
 charges due to managed care-negotiated discounts and denial of payment by
 insurance companies. Charges also do not reflect the actual cost to deliver the
 care that each patient needs.
- Charges were rounded for readability.
- 3. Underlying cause of injury categories include data from Late Effects; hospitalization where a previous injury was the primary cause.

4. Age

- Due to considerations regarding confidentiality, HIV & Drug/Alcohol Use patients were categorized using a broader age range scheme in the Hospital Discharge Data. In order to combine all patients, the broader age range scheme was utilized in each cause of injury group.
- Age is categorized into the following groups: 0-17 years, 18-44 years, 45-64 years, 65-74 years, and 75+ years.
- 5. For more information regarding Texas Hospital Discharge Data, visit: http://www.dshs.state.tx.us/thcic/

Top 5 Causes of Injury by Hospital Charges - 2006 Hospital Discharge Data

		Charges*		Percent of total
Underlying Cause of Injury	Frequency	(in millions)	Avg. charge	charges
Unintentional - Fall	61,989	\$2,009.4	\$32,400	42.5%
Unintentional - Motor Vehicle Traffic	21,485	\$1,084.4	\$50,500	23.0%
Assault/Homicide	6,800	\$223.3	\$32,800	4.7%
Self-Inflicted/Suicide	11,555	\$204.4	\$17,700	4.3%
Unintentional - Poisoning	6,844	\$154.1	\$22,500	3.3%
Total	145,343	\$4,722.5	\$32,500	100.0%

^{*} the sum of accommodation charges, non-covered accommodation charges, ancillary charges, and non-covered ancillary charges.

Unintentional - Fall

		Charges*		Percent of total
Age Category	Frequency	(in millions)	Avg. charge	charges
0-17 Years	3,430	\$60.0	\$17,500	3.0%
18-44 Year	6,078	\$191.8	\$31,600	9.5%
45-64 Year	11,577	\$403.9	\$34,900	20.1%
65-74 Year	9,391	\$333.2	\$35,500	16.6%
75+ Years	31,513	\$1,020.5	\$32,400	50.8%
Total	61,989	\$2,009.4	\$32,400	100.0%

Unintentional - Motor Vehicle

		Charges*		Percent of total
Age Category	Frequency	(in millions)	Avg. charge	charges
0-17 Years	2,777	\$120.8	\$43,500	11.1%
18-44 Year	10,980	\$564.3	\$51,400	52.0%
45-64 Year	5,383	\$287.9	\$53,500	26.5%
65-74 Year	1,167	\$58.9	\$50,400	5.4%
75+ Years	1,178	\$52.7	\$44,700	4.9%
Total	21,485	\$1,084.4	\$50,500	100.0%

Assault/Homicide

		Charges*		Percent of total
Age Category	Frequency	(in millions)	Avg. charge	charges
0-17 Years	791	\$26.3	\$33,300	11.8%
18-44 Year	4,490	\$144.5	\$32,200	64.7%
45-64 Year	1,275	\$43.6	\$34,200	19.5%
65-74 Year	124	\$5.4	\$43,200	2.4%
75+ Years	120	\$3.6	\$29,700	1.6%
Total	6,800	\$223.3	\$32,800	100.0%

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Self-Inflicted/Suicide

		Charges*		Percent of total
Age Category	Frequency	(in millions)	Avg. charge	charges
0-17 Years	1,459	\$19.8	\$13,600	9.7%
18-44 Year	7,218	\$122.0	\$16,900	59.7%
45-64 Year	2,534	\$53.9	\$21,300	26.4%
65-74 Year	195	\$4.9	\$25,300	2.4%
75+ Years	149	\$3.8	\$25,700	1.9%
Total	11,555	\$204.4	\$17,700	100.0%

Unintentional - Poisoning

		Charges*		Percent of total
Age Category	Frequency	(in millions)	Avg. charge	charges
0-17 Years	886	\$14.6	\$16,500	9.5%
18-44 Year	2,300	\$47.6	\$20,700	30.9%
45-64 Year	2,055	\$51.4	\$25,000	33.4%
65-74 Year	688	\$18.5	\$26,900	12.0%
75+ Years	915	\$22.0	\$24,000	14.3%
Total	6,844	\$154.1	\$22,500	100.0%