

**Traumatic Brain Injury Related Deaths, Hospitalizations
and Emergency Department Visits
Connecticut Residents, 2005-2007**

Between 2005-2007 there were 88 deaths, 1,445 inpatient hospitalizations and 24,472 emergency department visits related to traumatic brain injuries (TBI) among children and adolescents aged birth – 19 years of age.

Each year, on average, 29 Connecticut children and adolescents (birth to 19 years) die from a TBI. There are approximately 480 hospitalizations and 8,100 emergency department (ED) visits due to TBI among the birth -19 age group.

Number and Rate of TBI Deaths, Hospitalizations and ED visits by Age Group, 2005-2007

Age Group	# TBI Deaths	Rate*	# TBI Hospitalizations	Rate*	# ED Visits	Rate*
< 1 year	10	8.4	175	146.7	2056	1723.7
1-4 yrs	12	2.4	181	35.8	6379	1261.7
5-9 yrs	3	0.5	153	23.0	3901	585.6
10-14 yrs	6	0.8	275	37.9	5028	692.1
15-19 yrs	57	7.6	661	88.3	7108	949.7
All Ages	1,081	10.3	7,956	75.6	56,548	537.7

* Age Specific Rate per 100,000 population

The leading cause of TBI-related deaths for children under the age of 5 years is homicide (41%). The leading cause for 5-19 years are motor vehicle crashes (53%).

Falls cause the majority (60%) of hospitalizations among children age 10 years and younger. Motor vehicle crashes (43%) are the leading cause for TBI hospitalizations among the 10-19 year age group

Males are approximately 2.5 times more likely to die from a TBI than females and almost twice as likely to be hospitalized. (All ages)

Among 15-19 year olds, males are 4 times more likely to die from a TBI than females.

Across the age span from birth to 19 years, males are more likely to be hospitalized than females.

Hispanics have the highest TBI related death rate (9.9/100,000) followed by Non-Hispanic Whites (9.3), Non-Hispanic Blacks (9.2) and Asian/Pacific Islanders (3.5). (All Ages)

Hispanics have the highest rate of TBI-related Hospitalization (81.2/100,000) followed by Non-Hispanic Blacks (80.9), Non-Hispanic Whites (65.4) and Asian/Pacific Islanders (21.2).

Direct inpatient TBI related hospital charges totaled over \$46 million dollars for the birth – 19 year-old age group. This does not include physician fees, rehabilitation or long- term care costs. (2000-2004 data)

CT Department of Public Health, Injury Prevention Program - June 10, 2010

Data Sources:

Mortality- CT Department of Public Health Vital Records

Hospitalization and Emergency Department – CT Hospital Association, Hospital Discharge Data

**Leading Causes of TBI and Numbers of Deaths, Hospitalizations and ED Visits
by Age Group, 2005 – 2007**

Age Group	Deaths	Hospitalizations	ED Visits
<1 year	Homicide 5	Falls 133	Falls 1,735
	Other/unspecified 3	Other/Unspecified 25	Struck By/against* 223
	MV Traffic and Transport/Other 1 each	MV Traffic 7	Other/unspecified 52
	Total = 10 deaths	Total = 175 hospital visits	Total = 2,056 ED visits
1-4 years	Homicide 4	Falls 108	Falls 4,548
	MV Traffic 4	MV Traffic 27	Struck by/against* 1,379
	Transport/other * and Falls 1 each	Struck by/against* 24	MV Traffic 159
	Total = 12 deaths	Total = 181 hospital visits	Total = 6,379 ED visits
5-9 years	MV Traffic 2	Falls 64	Falls 1,884
	Falls 1	MV Traffic 40	Struck by/against * 1,310
		Struck by/against* 21	Transport + Cyclist * 274
	Total = 3 deaths	Total = 153 hospital visits	Total = 3,901 ED visits
10-14 years	MV Traffic 3	MV Traffic 76	Struck by/against * 2,140
	Homicide, Suicide, and Transport/Other* 1 each	Falls 75	Falls 1,619
		Transport +cyclist * 65	Transport + Cyclist * 471
	Total = 6 deaths	Total = 275 hospital visits	Total = 5,028 ED visits
15-19 years	MV Traffic 30	MV Traffic 329	Struck by/against* 2,412
	Homicide 13	Assault/ Suicide Attempt 87	Falls 1,493
	Suicide 6	Falls 81	MV Traffic 1,489
	Total = 57 deaths	Total = 661 hospital visits	Total = 7,108 ED visits
All Ages	Falls 374	Falls 3,558	Falls 28,894
	Suicide 230	Motor Vehicle 2,156	Struck by/against* 12,191
	Motor Vehicle 200	Missing E-codes 859	Motor Vehicle Traffic 8,056
	Total = 1,081 deaths	Total = 7,956 hospital visits	Total = 56,5548 ED visits

* Struck by/against = unintentional striking by or against an object or person, includes sports and recreational injuries. The categories “Transport/Other” and “Transport + Cyclist” include pedestrians hit by a MV off road (i.e. in parking lots and driveways), MV crashes occurring off roadways and bicycle injuries not involving a motor vehicle.

CT Department of Public Health, Injury Prevention Program - June 10, 2010

Data Sources:

Mortality- CT Department of Public Health Vital Records

Hospitalization and Emergency Department – CT Hospital Association, Hospital Discharge Data