

York Health District Burden of Injury 2004-2008

Highlights

Injury Deaths^a

- Injury was the underlying cause of death for 555 York residents during this five year time period.
- There was an average of 111 injury deaths per year.
- The average annual injury death rate was 55.3 per 100,000 York residents.
- Injury was the underlying cause for 6.7% of all deaths among York residents.
- 68.3% of injury deaths were due to unintentional causes; 28.2% were due to intentional causes; 3.4% were coded as either undetermined intent or other.
- The three leading causes of injury deaths were suicide, motor vehicle traffic, and unintentional poisoning.

Injury Hospital Discharges^b

- There were 4,557 hospital discharges of York residents for which an injury was the principal diagnosis during this 5 year period. There was an average of 911 such discharges per year. 4.9% of hospital discharges were for an injury related cause.
- The average annual injury hospital discharge rate was 454 per 100,000 York residents. York residents aged 65+ years were significantly more likely to have a hospital discharge than were residents in other age groups.
- The injury hospital discharge rate for females (497.3 per 100K) was higher than the rate for males (408.4 per 100K).
- 84.3% of injury hospital discharges were known to be due to unintentional causes; 12.1% were known to be due to intentional causes.
- The three leading causes of injury hospital discharges were unintentional fall, motor vehicle crash, and self inflicted poisoning.

Injury Outpatient Emergency Department Visits^c

- There were 105,038 outpatient emergency department visits by York residents for which an injury was the principal diagnosis during this 5 year period. There was an average of 21,007 visits per year. 29.8% of outpatient emergency department visits were for an injury related cause.
- The average annual injury outpatient emergency department visit rate was 10,464.5 per 100,000 York residents. Teens and young adults ages 15-24 were significantly more likely to have an injury outpatient visit than were people in other age groups.
- The injury outpatient emergency department visit rate for males (11,599.4 per 100K) was significantly higher than the rate for females (9,384.1 per 100K).
- 95.7% of injury outpatient emergency department visits were known to be due to unintentional causes; 3% were known to be due to intentional causes.
- The three leading causes of injury outpatient emergency department visits were unintentional falls, struck by/against, and overexertion..

a Injury deaths defined as underlying cause of death coded as ICD-10 V01-Y36, Y85-Y87, Y89, U01-U03, Y40-Y59, Y60-Y84, or Y88

b Hospital discharge with injury principal diagnosis defined as principal diagnosis coded as ICD-9-CM 800-909.2, 909.4, 909.9-994.9, 995.5-995.59 or 995.80-995.85

c Outpatient emergency department visit with injury principal diagnosis defined as principal diagnosis coded as ICD-9-CM 800-909.2, 909.4, 909.9-994.9, 995.5-995.59 or 995.80-995.85, and discharge status coded as "Discharged to home or self care (routine discharge)" or "Discharged/transferred to home under care of organized home health service organization".

**Five Leading Causes of Injury Deaths
York Health District, 2004-2008**

Rank	Overall		Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+		Male	Female
1	Suicide 139		Unintentional Suffocation 4	Motor Vehicle Traffic 30	Unintentional Poisoning 51	Suicide 52	Unintentional Fall 42		Suicide 108	Motor Vehicle Traffic 41
2	Motor Vehicle Traffic 116		Unintentional Drowning 3	Suicide 17	Suicide 50	Unintentional Poisoning 35	Unintentional Unspecified 29		Motor Vehicle Traffic 75	Suicide 31
3	Unintentional Poisoning 103		Motor Vehicle Traffic 2	Unintentional Poisoning 15	Motor Vehicle Traffic 37	Motor Vehicle Traffic 32	Suicide 20		Unintentional Poisoning 72	Unintentional Poisoning 31
4	Unintentional Fall 54			Homicide 2	Homicide 6	Homicide 7	Unintentional Fall 9	Motor Vehicle Traffic 15		Unintentional Fall 34
5	Unintentional Unspecified 31		Unintentional Fire/Hot Object 1	Land Transport, Other 4	Unintentional Drowning 6	Unintentional Drowning 7	Other, Adverse Effects 14		Unintentional Unspecified 15	Unintentional Unspecified 16

**Five Leading Causes of Injury Hospitalizations
York Health District, 2004-2008**

Rank	Overall	Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+	Male	Female
1	Unintentional Fall 2,448	Unintentional Fall 70	Motor Vehicle Traffic 132	Self Injury 203	Unintentional Fall 425	Unintentional Fall 1,732	Unintentional Fall 879	Unintentional Fall 1,569
2	Motor Vehicle Traffic 511	Unintentional Poisoning 22	Self Injury 102	Unintentional Fall 160	Self Injury 136	Motor Vehicle Traffic 84	Motor Vehicle Traffic 306	Self Injury 312
3	Self Injury 469	Motor Vehicle Traffic 21	Unintentional Fall 61	Motor Vehicle Traffic 150	Motor Vehicle Traffic 124	Unintentional Unspecified 56	Self Injury 157	Motor Vehicle Traffic 205
4	Unintentional Poisoning 190	Unintentional Struck By/Against 16	Transport, Other 33	Unintentional Fall 55	Unintentional Poisoning 51	Adverse Effects 46	Transport, Other 101	Unintentional Poisoning 101
5	Transport, Other 141	Transport, Other 12	Unintentional Poisoning 22	Transport, Other 50	Transport, Other 33	Unintentional Poisoning 40	Unintentional Poisoning 89	Unintentional Unspecified 49

**Five Leading Causes of Injury Emergency Department Visits
York Health District , 2004-2008**

Rank	Overall	Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+	Male	Female
1	Unintentional Fall 28,933	Unintentional Fall 7,141	Unintentional Struck By/Against 3,930	Unintentional Fall 6,341	Unintentional Fall 5,721	Unintentional Fall 6,061	Unintentional Fall 13,188	Unintentional Fall 15,744
2	Unintentional Struck By/Against 15,302	Unintentional Struck By/Against 4,762	Unintentional Fall 3,669	Unintentional Overexertion 5,728	Unintentional Overexertion 2,805	Unintentional Overexertion 832	Unintentional Struck By/Against 9,494	Unintentional Overexertion 7,093
3	Unintentional Overexertion 14,386	Unintentional Overexertion 1,948	Unintentional Overexertion 3,073	Unintentional Struck By/Against 3,936	Unintentional Cut/Pierce 2,421	Unintentional Cut/Pierce 816	Unintentional Overexertion 7,293	Unintentional Struck By/Against 5,808
4	Unintentional Cut/Pierce 10,468	Unintentional Cut/Pierce 1,455	Motor Vehicle Traffic 2,273	Unintentional Cut/Pierce 3,556	Unintentional Struck By/Against 1,974	Unintentional Natural/Envir 735	Unintentional Cut/Pierce 7,107	Motor Vehicle Traffic 3,905
5	Motor Vehicle Traffic 7,034	Unintentional Other 1,311	Unintentional Cut/Pierce 2,220	Motor Vehicle Traffic 2,454	Motor Vehicle Traffic 1,453	Unintentional Unspecified 708	Unintentional Unspecified 3,380	Unintentional Cut/Pierce 3,361

**Maine Injury Prevention Program – Four Priority Injury Indicators
Injury Deaths
York Health District, 2004-2008**

Overall		Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+		Male	Female
Suicide 139		Motor Vehicle Traffic 2	Motor Vehicle Traffic 30	Unintentional Poisoning 51	Suicide 52	Unintentional Fall 42		Suicide 108	Motor Vehicle Traffic 41
Motor Vehicle Traffic 116			Suicide 17	Suicide 50	Unintentional Poisoning 35	Suicide 20		Motor Vehicle Traffic 75	Suicide 31
Unintentional Poison 103			Unintentional Poisoning 15	Motor Vehicle Traffic 37	Motor Vehicle Traffic 32	Motor Vehicle Traffic 15		Unintentional Poisoning 72	Unintentional Poisoning 31
Unintentional Fall 54			Unintentional Fall 2	Unintentional Fall 1	Unintentional Fall 9	Unintentional Poisoning 2		Unintentional Fall 34	Unintentional Fall 20

**Maine Injury Prevention Program – Four Priority Injury Indicators
Hospitalizations
York Health District, 2004-2008**

Overall	Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+	Male	Female
Unintentional Fall 2,448	Unintentional Fall 70	Motor Vehicle Transport 132	Self Injury 203	Unintentional Fall 425	Unintentional Fall 1,732	Unintentional Fall 879	Unintentional Fall 1,569
Motor Vehicle Transport 511	Unintentional Poisoning 22	Self Injury 102	Unintentional Fall 160	Self Injury 136	Motor Vehicle Transport 84	Motor Vehicle Transport 306	Self Injury 312
Self Injury 469	Motor Vehicle Traffic 21	Unintentional Fall 61	Motor Vehicle Traffic 150	Motor Vehicle Traffic 124	Unintentional Poisoning 40	Unintentional Poisoning 141	Motor Vehicle Traffic 205
Unintentional Poisoning 190	Self Injury 6	Unintentional Poisoning 22	Unintentional Poisoning 55	Unintentional Poisoning 51	Self Injury 22	Self Injury 157	Unintentional Poisoning 101

**Maine Injury Prevention Program – Four Priority Injury Indicators
Injury Emergency Department Visits
York Health District, 2004-2008**

Overall	Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+	Male	Female
Unintentional Fall 28,933	Unintentional Fall 7,141	Unintentional Fall 3,669	Unintentional Fall 6,341	Unintentional Fall 5,721	Unintentional Fall 6,061	Unintentional Fall 13,188	Unintentional Fall 15,744
Motor Vehicle Traffic 7,034	Motor Vehicle Traffic 405	Motor Vehicle Traffic 2,273	Motor Vehicle Traffic 2,454	Motor Vehicle Traffic 1,453	Motor Vehicle Traffic 449	Motor Vehicle Traffic 3,129	Motor Vehicle Traffic 3,905
Self Injury 940	Unintentional Poisoning 256	Self Injury 451	Self Injury 305	Unintentional Poisoning 141	Unintentional Poisoning 68	Self Injury 480	Self Injury 450
Unintentional Poisoning 805	Self Injury 66	Unintentional Poisoning 142	Unintentional Poisoning 198	Self Injury 112	Self Injury 5	Unintentional Poisoning 381	Unintentional Poisoning 424

Data Sources

Deaths: 2004-2008 death certificate statistical datasets obtained from the Office of Data, Research and Vital Statistics, Maine analysis includes all deaths to Maine residents, regardless of the state where the death occurred.

Hospital Discharges: 2004-2008 hospital discharge (inpatient) datasets obtained from the Maine Health Data Organization. Analysis limited to discharge of Maine residents from Maine acute care hospitals (excludes psychiatric, rehabilitation and federal hospitals)

Outpatient ED Visits: 2004-2008 hospital outpatient datasets obtained from the Maine Health Data Organizations. Analysis limited to ED visits by Maine residents at Maine acute care hospitals (excludes psychiatric, rehabilitation and federal hospitals) where the person was discharged to home or self care

Population Estimates: Annual estimates of the resident population by age, sex, race and Hispanic origin for counties: April 1, 2000 to July 1, 2008.

Injury Definitions

Unintentional Injury	Definition
Fall	When an individual sustains an injury after an unintentional descent from any height
Motor Vehicle	An incident involving a motorized vehicle and at least one injured individual, where that individual is a vehicle occupant, passenger or driver; a motorcyclist
Pedestrian	Injuries caused in transport and non-transport related crashes
Transport, Other	All transportation injuries not included in motor vehicle, pedestrian or bicycle injuries
Fire/Hot Substance	Severe exposure to flames, heat, chemicals or hot substance that leads to tissue damage of the skin or places deeper in the body; injury from smoke inhalation to the upper airway, lower airway or lungs
Firearm	Penetrating force injury resulting from a bullet or other projectile shot from a powder charged gun (handgun, shotgun, unspecified firearm)
Poisoning	Ingestion, inhalation, absorption through the skin, or injection of so much of a drug, toxin, or other chemical that a harmful effect results. This category does not include harmful effects from normal therapeutic drugs or bacterial illnesses
Suffocation	Inhalation, aspiration or ingestion of food or other object that blocks the airway or causes suffocation; intentional or accidental mechanical suffocation caused by hanging, strangulation, lack of air in a closed place, plastic bag, or falling earth. This category does not include injury resulting from a foreign body that does not block the airway.
Natural/Environmental Causes	Injury resulting from exposure to adverse natural and environmental conditions, i.e. severe heat, severe cold, lightning, sunstroke, tornadoes and natural disasters as well as lack of food or water.
Struck By/Against	Injury resulting from being struck by (i.e. hit) or crushed by a human, animal, or inanimate object or force other than a vehicle or machinery; injury caused by striking (i.e. hitting) against a human, animal or inanimate object or force other than a vehicle or machinery
Cutting/Piercing	Injury resulting from an incision, slash, perforation or puncture by a pointed or sharp instrument, weapon or object
Overexertion	Injury resulting from excessive physical exercise (i.e. lifting, pulling, pushing). Strenuous movements in recreational and other activities
Drowning	Suffocation resulting from submersion in water or other liquid
Late effects	Late effect or sequela resulting from a previous injury or poisoning

Unspecified	Information missing on mechanism (.i.e. motor vehicle, firearm, hanging) of the injury
Other	Injury associated with any other specified cause that does not fit another category
Intentional Injury	Definition
Abuse and Neglect	Injury resulting from abuse or criminal neglect
Physical Force	Injury resulting from fight, brawl, rape, includes beating with hands, fists, feet
Cutting/Piercing	Injury resulting from an incision, a slash, a perforation, or a puncture by a pointed or sharp instrument, weapon or object
Firearm	Penetrating force injury resulting from a bullet or other projectile shot from a powder charged gun (handgun, shotgun, military firearm, unspecified firearm)
Homicide	All fatal injuries purposely inflicted by other persons, excluding legal intervention by law enforcement agents
Struck	Injury resulting from striking by blunt or thrown object
Other	Injury associated with any other specified cause that does not fit another category
Self Injury	Definition
Drug and Medicinal Substances	Injury resulting from poisoning by drug and medicinal substances (i.e. analgesics, barbiturates, tranquilizers, etc)
Cutting/Piercing	Injury resulting from cutting, piercing instrument
Firearm	Penetrating force injury resulting from bullet or other projectile shot from a powder charged gun
Jump	Injury resulting from jumping from high places
Hang	Mechanical suffocation caused by hanging or strangulation or physical constriction of the neck, resulting in air loss
Suicide	Self-inflicted death with evidence (implicit or explicit) of the intent to die
Other	Injury associated with any other specified cause that does not fit another category
Undetermined Intent	Definition
Poisoning	Injury resulting from poisoning by solid or liquid substance, including drugs and medicinal substances but undetermined whether unintentionally or intentionally inflicted
Unspecified	Information missing on mechanism (i.e., motor vehicle, firearm, hanging) of the injury

