

Downeast Health District (Washington and Hancock Counties)
Burden of Injury
2005-2009

Highlights

Injury Deaths^a

- Injury was the underlying cause of death for 324 residents during this five year time period. There was an average of 65 injury deaths per year.
- The average annual injury death rate was 75.1 per 100,000 Downeast Health District residents.
- Injury was the underlying cause for 6.7% of all deaths among Downeast Health District residents.
- 77.8% of injury deaths were due to unintentional causes; 18.5% were due to intentional causes; 3.7% were coded as undetermined, other or missing intent.
- The three leading causes of injury deaths were unintentional motor vehicle traffic, unintentional poisoning and unintentional fall.

Injury Hospital Discharges^b

- There were 3,085 hospital discharges of Downeast Health District residents for which an injury was the principal diagnosis during this 5 year period. There was an average of 617 such discharges per year. 5.5% of hospital discharges were for an injury related cause.
- The average annual injury hospital discharge rate was 715.1 per 100,000 Downeast Health District residents. Downeast Health District 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 (780.9 per 100K) was higher than the rate for males (646.6 per 100K).
- 80.1% of injury hospital discharges were known to be due to unintentional causes; 8.3% were known to be due to intentional causes; 11.6% of injury cases were coded as undetermined, other or missing intent.
- The three leading causes of injury hospital discharges were unintentional fall, unintentional motor vehicle traffic, and intentional self injury.

Injury Outpatient Emergency Department Visits^c

- There were 54,293 outpatient emergency department visits for which an injury was the principal diagnosis during this 5 year period. There was an average of 10,858 visits per year. 25.4% of outpatient emergency department visits were for an injury related cause.
- The average annual injury outpatient emergency department visit rate was 12,585.0 per 100,000 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 (13,703.9 per 100K) was significantly higher than the rate for females (11,507.9 per 100K).
- 76.0% of injury outpatient emergency department visits were known to be due to unintentional causes; 2.0% were known to be due to intentional causes; 22.0% of injury cases were not coded for intent.
- The three leading causes of injury outpatient emergency department visits were unintentional fall, unintentional over exertion and unintentional struck by/against.

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
Downeast Health District, 2005-2009**

Rank	Overall		Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+		Male	Female
1	Unintentional Motor Vehicle Traffic 81		Homicide 3	Unintentional Motor Vehicle Traffic 15	Unintentional Motor Vehicle Traffic 27	Unintentional Motor Vehicle Traffic 25	Unintentional Fall 26		Unintentional Motor Vehicle Traffic 63	Unintentional Motor Vehicle Traffic 18
2	Unintentional Poisoning 54		Unintentional Motor Vehicle Traffic 1	Unintentional Poisoning 10	Unintentional Poisoning 22	Suicide 18	Unintentional Unspecified 25		Suicide 44	Unintentional Unspecified 17
3	Suicide 52		Unintentional Poisoning 1	Unintentional Drowning 2	Suicide 16	Unintentional Poisoning 18	Suicide 17		Unintentional Poisoning 38	Unintentional Poisoning 16
4	Unintentional Fall 40			Suicide 1	Unintentional Drowning 3	Unintentional Fall 12	Unintentional Motor Vehicle Traffic 13		Unintentional Fall 26	Unintentional Fall 14
5	Unintentional Unspecified 28			Unintentional Other 1	Homicide 3	Unintentional Drowning 4	Unintentional Suffocation 9		Unintentional Unspecified 11	Suicide 8

Five Leading Causes of Injury Hospitalizations Downeast Health District, 2005-2009

Rank	Overall		Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+		Male	Female
1	Unintentional Fall 1,531		Unintentional Fall 39	Unintentional Motor Vehicle Traffic 91	Unintentional Motor Vehicle Traffic 101	Unintentional Fall 274	Unintentional Fall 1,096		Unintentional Fall 542	Unintentional Fall 989
2	Unintentional Motor Vehicle Traffic 371		Unintentional Motor Vehicle Traffic 15	Intentional Self Injury 47	Intentional Self Injury 105	Unintentional Motor Vehicle Traffic 101	Unintentional Motor Vehicle Traffic 63		Unintentional Motor Vehicle Traffic 245	Intentional Self Injury 139
3	Intentional Self Injury 218		Unintentional Transportation Other 11	Unintentional Fall 22	Unintentional Fall 100	Intentional Self Injury 57	Unintentional Overexertion 33		Intentional Self Injury 79	Unintentional Motor Vehicle Traffic 126
4	Unintentional Poisoning 104		Unintentional Struck By/Against 10	Unintentional Poisoning 14	Unintentional Poisoning 23	Unintentional Poisoning 37	Other Adverse Effects 32		Unintentional Transportation Other 59	Unintentional Poisoning 50
5	Unintentional Transportation Other 92		Unintentional Poisoning 7	Unintentional Transportation Other 14	Unintentional Transportation Other 22	Unintentional Transportation Other 22	Unintentional Unspecified 24		Unintentional Poisoning 54	Unintentional Overexertion 42

**Five Leading Causes of Injury Emergency Department Visits
Downeast Health District, 2005-2009**

Rank	Overall		Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+		Male	Female
1	Unintentional Fall 11,507		Unintentional Fall 2,320	Unintentional Struck by/against 1,529	Unintentional Fall 2,153	Unintentional Fall 2,495	Unintentional Fall 3,203		Unintentional Fall 5,156	Unintentional Fall 6,350
2	Unintentional Overexertion 5,814		Unintentional Struck by/against 1,615	Unintentional Fall 1,336	Unintentional Overexertion 2,066	Unintentional Overexertion 1,226	Unintentional Overexertion 506		Unintentional Struck by/against 3,557	Unintentional Overexertion 2,961
3	Unintentional Struck by/against 5810		Unintentional Overexertion 718	Unintentional Overexertion 1,298	Unintentional Cut/pierce 1,453	Unintentional Cut/pierce 1,134	Unintentional Cut/pierce 389		Unintentional Cut/pierce 3,023	Unintentional Struck by/against 2,253
4	Unintentional Cut/pierce 4,564		Unintentional Cut/pierce 610	Unintentional Motor Vehicle Traffic 1,022	Unintentional Struck by/against 1,413	Unintentional Struck by/against 874	Unintentional Struck by/against 379		Unintentional Overexertion 2,853	Unintentional Motor Vehicle Traffic 1,639
5	Unintentional Motor Vehicle Traffic 3,090		Unintentional Natural/ Environmental 536	Unintentional Cut/pierce 978	Unintentional Motor Vehicle Traffic 994	Unintentional Motor Vehicle Traffic 651	Unintentional Natural/ Environmental 334		Unintentional Other Specified 1,700	Unintentional Cut/pierce 1,540

**Maine Injury Prevention Program – Four Priority Injury Indicators
Injury Deaths
Downeast Health District, 2005-2009**

Overall		Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+		Male	Female
Unintentional Motor Vehicle Traffic 81		Unintentional Motor Vehicle Traffic 1	Unintentional Motor Vehicle Traffic 15	Unintentional Motor Vehicle Traffic 27	Unintentional Motor Vehicle Traffic 25	Unintentional Fall 26		Unintentional Motor Vehicle Traffic 63	Unintentional Motor Vehicle Traffic 18
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Suicide 52			Suicide 1	Suicide 16		Unintentional Poisoning 18	Unintentional Motor Vehicle Traffic 13		Unintentional Poisoning 38
Unintentional Fall 40				Unintentional Fall 2	Unintentional Fall 12	Unintentional Poisoning 3		Unintentional Fall 26	Suicide 8

**Maine Injury Prevention Program – Four Priority Injury Indicators
Injury Hospitalizations
Downeast Health District, 2005-2009**

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Unintentional Motor Vehicle Traffic 371	Unintentional Motor Vehicle Traffic 15	Intentional Self Injury 47	Intentional Self Injury 103	Unintentional Motor Vehicle Traffic 101	Unintentional Motor Vehicle Traffic 63	Unintentional Motor Vehicle Traffic 245	Intentional Self Injury 139
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Unintentional Poisoning 104	Intentional Self Injury 3	Unintentional Poisoning 14	Unintentional Poisoning 23	Unintentional Poisoning 37	Intentional Self Injury 8	Unintentional Poisoning 54	Unintentional Poisoning 50

**Maine Injury Prevention Program – Four Priority Injury Indicators
Injury Emergency Department Visits
Downeast Health District, 2005-2009**

Overall	Age <15	Age 15-24	Age 25-44	Age 45-64	Age 65+	Male	Female
Unintentional Fall 11,507	Unintentional Fall 2,320	Unintentional Fall 1,336	Unintentional Fall 2,153	Unintentional Fall 2,495	Unintentional Fall 3,203	Unintentional Fall 5,156	Unintentional Fall 6,350
Unintentional Motor Vehicle Traffic 3,090	Unintentional Motor Vehicle Traffic 191	Unintentional Motor Vehicle Traffic 1,022	Unintentional Motor Vehicle Traffic 994	Unintentional Motor Vehicle Traffic 651	Unintentional Motor Vehicle Traffic 232	Unintentional Motor Vehicle Traffic 1,450	Unintentional Motor Vehicle Traffic 1,639
Unintentional Poison 283	Unintentional Poison 84	Intentional Self Injury 97	Intentional Self Injury 74	Unintentional Poison 59	Unintentional Poison 40	Unintentional Poison 147	Unintentional Poison 136
Intentional Self Injury 212	Intentional Self Injury 9	Unintentional Poison 42	Unintentional Poison 58	Intentional Self Injury 30	Intentional Self Injury 2	Intentional Self Injury 89	Intentional Self Injury 123

Data Sources

Deaths: 2005-2009 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: 2005-2009 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: 2005-2009 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, 2009.

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	All fatal injuries which are self inflicted
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

