

HIGHLIGHTS

• MORBIDITY •

- During FY2007, the leading cause of hospitalizations for the Alaska Tribal Health System was childbirth and complications of pregnancy, resulting in 2,596 hospitalizations, with an average length of stay of 2.5 days. The second leading cause was for diseases of the respiratory system, third was for injuries and poisoning and the fourth was for diseases of the digestive system. These four causes accounted for nearly 50% of all hospitalizations.
- The leading cause of outpatient visits for the Alaska Tribal Health System during FY2007 was for diseases of the respiratory system (7.3%). The second leading cause was for mental health disorders (7.0%).
- During 2003-2005, falls were the leading cause of injury hospitalization, accounting for about one in every four (27%) injury hospitalizations. The second and third leading causes are suicide attempts (18.9%) and assaults (12.0%), respectively.



Photo by Jerry McDonnell

Hospitalizations – Leading Causes

Hospitalizations by Diagnosis Groupings, Alaska Tribal Health System, Alaska Natives, Fiscal Year 2007

Data Source: I.H.S. National Data Warehouse

Note: ICD-9 Codes in each group are listed in parentheses

| Rank | Cause | Number | Days | Average Length of Stay | % Total |
|------|--|---------------|---------------|------------------------|---------|
| 1 | Complications of Pregnancy, Childbirth and the Puerperium (630-677) | 2,596 | 6,566 | 2.5 | 18.0% |
| 2 | Diseases of the Respiratory System (460-519) | 1,579 | 8,655 | 5.5 | 11.0% |
| 3 | Injury and Poisoning (800-999) | 1,456 | 7,143 | 4.9 | 10.1% |
| 4 | Diseases of the Digestive System (520-579) | 1,296 | 6,046 | 4.7 | 9.0% |
| 5 | Mental Disorders (290-319) | 696 | 2,419 | 3.5 | 4.8% |
| 6 | Diseases of the Circulatory System (390-459) | 676 | 3,738 | 5.5 | 4.7% |
| 7 | Symptoms, Signs and Ill-defined Conditions (780-799) | 516 | 1,666 | 3.2 | 3.6% |
| 8 | Diseases of the Genitourinary System (580-629) | 511 | 2,072 | 4.1 | 3.6% |
| 9 | Diseases of the Musculoskeletal System and Connective Tissue (710-739) | 490 | 2,560 | 5.2 | 3.4% |
| 10 | Diseases of the Skin and Subcutaneous Tissue (680-709) | 401 | 2,207 | 5.5 | 2.8% |
| 11 | Neoplasms (140-239) | 395 | 2,411 | 6.1 | 2.7% |
| 12 | Infectious and Parasitic Diseases (001-139) | 274 | 2,443 | 8.9 | 1.9% |
| 13 | Endocrine, Nutritional, Metabolic and Immunity Disorders (240-279) | 258 | 1,145 | 4.4 | 1.8% |
| 14 | Certain Conditions Originating in the Perinatal Period (760-779) | 190 | 987 | 5.2 | 1.3% |
| 15 | Diseases of the Nervous System and Sense Organs (320-389) | 176 | 997 | 5.7 | 1.2% |
| 16 | Disease of the Blood and Blood-forming Organs (280-289) | 97 | 399 | 4.1 | 0.7% |
| 17 | Congenital Anomalies (740-759) | 54 | 268 | 5.0 | 0.4% |
| | Total | 14,387 | 66,098 | 4.6 | |

Ambulatory Care – Leading Causes of Outpatient Visits

Outpatient Visits by Diagnosis Groupings, Alaska Tribal Health System, Alaska Natives, Fiscal Year 2007

Data Source: I.H.S. National Data Warehouse
Note: ICD-9 Codes in each group are listed in parentheses

| Rank | Cause | Number | % Total |
|------|--|------------------|---------|
| 1 | Diseases of the Respiratory System (460-519) | 102,838 | 7.3% |
| 2 | Mental Disorders (290-319) | 98,859 | 7.0% |
| 3 | Diseases of the Nervous System and Sense Organs (320-389) | 95,636 | 6.8% |
| 4 | Diseases of the Musculoskeletal System and Connective Tissue (710-739) | 90,923 | 6.5% |
| 5 | Symptoms, Signs and Ill-defined Conditions (780-799) | 80,551 | 5.7% |
| 6 | Injury and Poisoning (800-999) | 62,726 | 4.5% |
| 7 | Diseases of the Circulatory System (390-459) | 47,989 | 3.4% |
| 8 | Diseases of the skin and subcutaneous tissue (680-709) | 42,112 | 3.0% |
| 9 | Endocrine, Nutritional, Metabolic and Immunity Disorders (240-279) | 37,952 | 2.7% |
| 10 | Diseases of the Digestive System (520-579) | 35,529 | 2.5% |
| 11 | Diseases of the Genitourinary System (580-629) | 35,289 | 2.5% |
| 12 | Infectious and Parasitic Diseases (001-139) | 30,742 | 2.2% |
| 13 | Complications of Pregnancy, Childbirth and the Puerperium (630-677) | 17,920 | 1.3% |
| 14 | Neoplasms (140-239) | 8,648 | 0.6% |
| 15 | Disease of the Blood and Blood-forming Organs (280-289) | 5,770 | 0.4% |
| 16 | Congenital Anomalies (740-759) | 2,191 | 0.2% |
| 17 | Certain Conditions Originating in the Perinatal Period (760-779) | 1,199 | 0.1% |
| | Total | 1,403,539 | |

Injury Hospitalizations

Definition: An injury hospitalization is defined as having sustained an injury that results in either inpatient admission or transfer to an acute care facility.

Healthy People 2010, Objective 15.14: Reduce non-fatal unintentional injuries (developmental).

Healthy Alaskans 2010, Objective 8.2: Reduce hospitalizations due to non-fatal unintentional injuries to 57 per 10,000 population.

Injury Hospitalizations by Cause, Alaska Natives, 2003-2005 Data Source: Alaska Trauma Registry

| Rank | Cause | No. of Hospitalizations | % of Total |
|------|--------------------------------------|-------------------------|-------------|
| 1 | Falls | 1311 | 27.0% |
| 2 | Suicide Attempt | 920 | 18.9% |
| 3 | Assault | 585 | 12.0% |
| 4 | Motor Vehicle Traffic Occupant | 273 | 5.6% |
| 5 | All-Terrain Vehicle | 214 | 4.4% |
| 6 | Snow Machine | 210 | 4.3% |
| 7 | Unintentional Poisoning | 143 | 2.9% |
| 8 | Other | 134 | 2.8% |
| 9 | Sports | 129 | 2.7% |
| 10 | Pedestrian | 126 | 2.6% |
| 11 | Cut | 121 | 2.5% |
| 12 | Bicycle | 117 | 2.4% |
| 13 | Accidentally Struck by Person/Object | 112 | 2.3% |
| 14 | Water Transport | 50 | 1.0% |
| 15 | Fire/Flames | 47 | 1.0% |
| 16 | Hypothermia/Frostbite | 47 | 1.0% |
| 17 | Unintentional Firearm | 45 | 0.9% |
| 18 | Fall from Playground Equipment | 37 | 0.8% |
| 19 | Hot Substance/Burn | 36 | 0.7% |
| 20 | Dog Bite | 30 | 0.6% |
| 30 | Other | 170 | 3.5% |
| | Total | 4857 | 100% |

Summary:

- Falls were the leading cause of injury hospitalization during 2003-2005, accounting for more than one in every four injury hospitalizations.
- Suicide attempts were the second leading cause, accounting for nearly one in every five injury hospitalizations.

Data Availability: The Alaska Trauma Registry tracks all injury hospitalizations statewide.

For more information:
 ANTHC's Injury Prevention Program
<http://www.anthc.org/chs/wp/injprev/>