Unintentional Injury

Key Findings:

Mortality and Hospitalizations
- In 2011, there were 139 deaths due to unintentional injury among Washington state residents ages 0-19. The unintentional injury mortality rate for Washington children ages 0-19 decreased from 19.2 per 100,000 in 1990 to 7.9 per 100,000 in 2011.  
- There were 3,157 nonfatal unintentional injury hospitalizations among Washington youth ages 0-19 in 2011. The nonfatal unintentional injury hospitalization rate for Washington children ages 0-19 decreased from 355.4 per 100,000 in 1990 to 179.1 per 100,000 in 2011.  
- The highest unintentional injury death and hospitalization rates for Washington children were in infants and youth ages 15-19. The unintentional injury hospitalization and deaths rates are higher among males than females.  
- Motor vehicle crashes are the leading cause of unintentional injury deaths in children and accounted for 39 percent of the unintentional injury deaths in children in 2011. Deaths due to motor vehicle crashes decreased from 9.0 per 100,000 Washington children ages 0-19 in 1995 to 3.2 per 100,000 in 2011.

Youth Injury Risk Factors
- In 2012, 18 percent of 6th graders reported ever riding in a vehicle driven by someone who had been drinking. In 2012, 17 percent of 8th graders, 19 percent of 10th graders and 22 percent of 12th graders reported riding in a vehicle in the past 30 days driven by someone who had been drinking alcohol.  
- In 2012, 5 percent of 10th graders and 11 percent of 12th graders reported driving in the past 30 days after drinking alcohol.  
- Among youth who ride bikes, 52 percent of 6th graders reported always or often wearing a helmet, as did 31 percent of 8th graders, 27 percent of 10th graders and 26 percent of 12th graders.  
- Among youth who had been boating, 54 percent of 8th graders, 41 percent of 10th graders, and 35 percent of 12th graders reported always wearing a life vest when boating.

Definition:
Unintentional injury deaths are deaths due to accidental or unintentional causes.  
Unintentional injury hospitalizations are non-fatal hospitalizations due to unintentional injuries.
Mortality Rates: Time Trend $^{1,5,a}$

Unintentional Injury Mortality Rate
Ages 0-19, by Year
WA and US, Death Certificates, 1981-2011

Nonfatal Hospitalization Rates: Time Trend $^{2,b}$

Nonfatal Unintentional Injury Hospitalization Rate
Ages 0-24, by Age Group, WA 1990-2011

Nonfatal Hospitalizations: Block Grant Measure, Unintentional Injury Ages 0 to 24 by Age Group $^{2,b}$

Mortality and Nonfatal Hospitalizations:
Age $^{1,2,a,b}$

Unintentional Injury Death and Nonfatal Hospitalization Rates
Ages 0-19, by Age group
Death Certificates & CHARS, WA 2008-2011
Mortality and Nonfatal Hospitalizations: Sex

Unintentional Injury Death and Nonfatal Hospitalization Rates Ages 0-19, by Sex
Death Certificates & CHARS, WA 2008-2011

Nonfatal Hospitalizations: Block Grant Measure: Motor Vehicle Crashes

Nonfatal Motor Vehicle Crash Hospitalization Rates by Age Group
WA, CHARS, 1990-2011

Mortality: Block Grant Measure- Motor Vehicle Crashes

Motor Vehicle Crash Death Rate by Age Groups
WA, Death Certificates, 1990-2011

Mortality: Leading Causes of Unintentional Injury Deaths, 2008-2011, by Age Group

Drowning/Motor vehicle crash  Suffocation Fire/Burn
Motor vehicle crash  Drowning Fire/Burn
Motor vehicle crash  Poisoning
Motor vehicle crash  Poisoning Drowning
Motor vehicle crash  Poisoning Drowning

0-14 years  15-24 years

Rate per 100,000

Male
Female

0 100 200 300 400

0 100 200 300

0 100 200 300 400 500


0 100 200 300

Nonfatal Hospitalization Rates
Mortality: Block Grant Measure- Motor Vehicle Crashes

Rate per 100,000

Rank

Age Group 1st 2nd 3rd

<1 Suffocation Motor vehicle crash Drowning
1-4 Drowning/Motor vehicle crash Suffocation Fire/Burn
5-9 Motor vehicle crash Drowning Fire/Burn
10-14 Motor vehicle crash Drowning Poisoning
15-19 Motor vehicle crash Poisoning Drowning
0-19 Motor vehicle crash Poisoning Drowning

MCH Data Report
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Unintentional Injury Mortality by Race/Ethnicity\textsuperscript{1,a}

Unintentional Injury Death Rates Ages 0-19, by Race and Ethnicity
WA, Death Certificates, 2008-2011

- White* 9
- Pacific Islander* 9
- Hispanic 8
- Black* 12
- Asian* 3
- American Indian/Alaska Native* 27

*Non-Hispanic

Rate per 100,000

Unintentional Injury Non-fatal Hospitalizations by County\textsuperscript{2,b}

Nonfatal Unintentional Injury Hospitalizations, WA, 2008-2011, Ages 0-19, by County

Note: County rates not presented for counties with 5 or fewer deaths in the timeframe or residual standard error $\geq 30\%$. 

MCH Data Report

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Data sources

Endnotes
a. For death certificate data for years 1999 on, the ICD-10 codes for unintentional injury deaths used include V01-X59 and Y85-Y86. The ICD-9 codes used prior to 1999 include E800-E869 and E880-E929. Comparability ratio (used to enable comparison) was 1.025 (SE 0.0055). ICD-9 codes were used for hospitalization data.
b. ICD-9 codes E800-E869 and E880-E929. They exclude adverse effects, which are injuries related to therapeutic use of drugs and adverse effects of medical and surgical care. Unintentional injury hospitalizations include all diagnoses. The data source is the Washington State Comprehensive Hospital Abstract Reporting System (CHARS). Patients hospitalized more than once with the same diagnosis will be counted as separate incidents. Oregon hospitalizations of Washington residents excluded.
c. Based on the questions “During the past 30 days, how many times did you ride in a car or other vehicle driven by someone who had been drinking alcohol?” and “Have you ever ridden in a car driven by someone who had been drinking alcohol?”
d. Based on the question “During the past 30 days, how many times did you drive a car or other vehicle when you had been drinking alcohol?”
e. Based on the question “When you ride a bicycle, how often do you wear a helmet?” and “When you rode a bicycle during the past 12 months, how often did you wear a helmet?”
f. Based on the question “How often do you wear a life vest when you’re in a small boat like a canoe, raft, or small motorboat?”

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