

1:30 – 3:00 pm
 Saturday, April 30
Concurrent Mini-Plenary Sessions

**Unintentional Injury and
 Motor Vehicle Injury**

*David C. Grossman, MD, MPH
 Helen Andon, EdM*

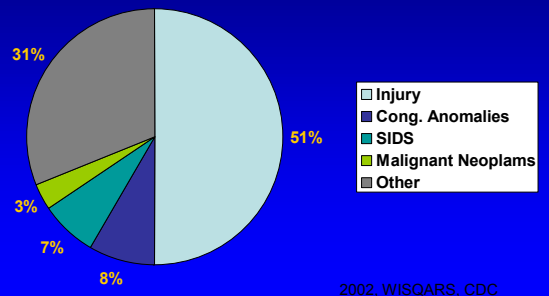
**Injury Control and American
 Indians and Alaska Natives**

**Helen Andon, Ed.M
 David Grossman, MD, MPH**

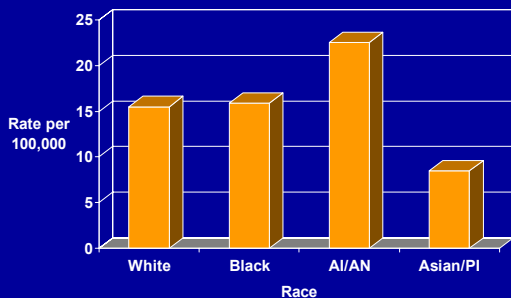
Overview

- Descriptive Epidemiology
 - Rates
 - Trends
 - Disparities
 - Risk Factors
- Interventions and Innovations
 - IHS Injury Prevention Program

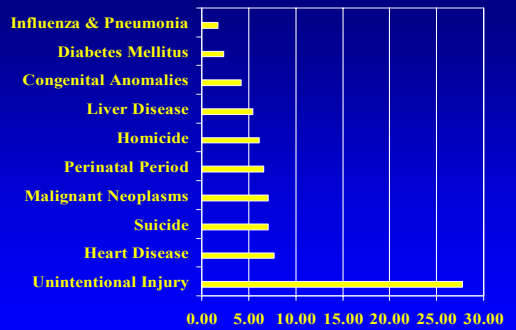
**Leading Causes of Death, AI/AN
 Children, Ages 0-18, USA**



**Unintentional Injury Mortality Rates, USA
 Ages 0-19**



**Years Potential Life Lost
 American Indians/ Alaska Natives**

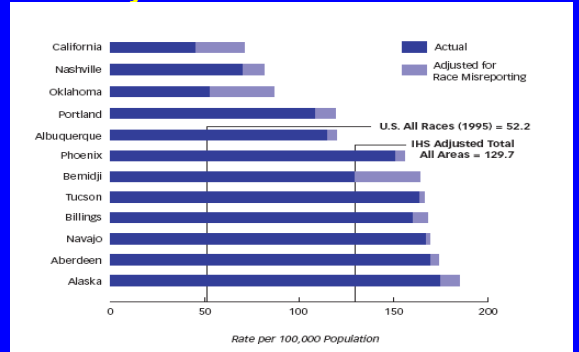


Leading Causes of Injury Deaths

Rank	<1	1-4	5-9	10-14	15-24
1	Unintentional Suffocation 614	Unintentional MV Traffic 558	Unintentional MV Traffic 680	Unintentional MV Traffic 864	Unintentional MV Traffic 10,513
2	Unintentional MV Traffic 133	Unintentional Drowning 459	Unintentional Drowning 499	Unintentional Drowning 453	Homicide Firearm 4,200
3	Homicide Other Spec., Class. 117	Unintentional Fire/Burn 230	Unintentional Fire/Burn 164	Suicide Suffocation 163	Suicide Firearm 2,130
4	Homicide Unspecified 107	Homicide Unspecified 146	Homicide Firearm 59	Homicide Firearm 121	Unintentional Poisoning 1,362
5	Unintentional Drowning 65	Unintentional Suffocation 189	Unintentional Other Land Transport 48	Suicide Firearm 90	Suicide Suffocation 1,236
6	Unintentional Fire/Burn 20	Unintentional Pedestrian, Other 33	Unintentional Suffocation 44	Unintentional Fire/Burn 89	Unintentional Drowning 59
7	Undetermined Suffocation 47	Homicide Other Spec., Class. 80	Unintentional Fall 33	Unintentional Other Land Transport 83	Homicide Outdoors 481
8	Homicide Suffocation 40	Homicide Firearm 55	Unintentional Pedestrian, Other 26	Unintentional Suffocation 68	Suicide Poisoning 337
9	Adverse Effects 26	Homicide Other Spec., NEC 49	Unintentional Struck by or Against 25	Unintentional Firearm 39	Unintentional Fall 258
10	Unintentional Fall 23	Unintentional Other Naturs/Env. 42	Unintentional Other Transport 22	Unintentional Pedestrian, Other 38	Unintentional Other Land Transport 250

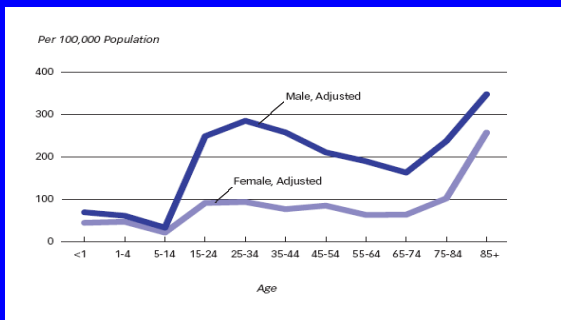
WISQARS, NCIPC, 2002

Injury Rate Death Rates By Indian Health Service Area



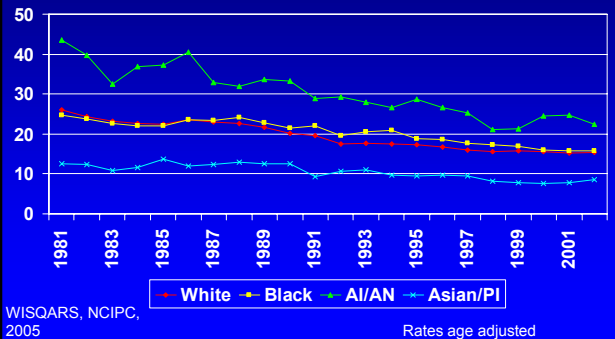
Source: Indian Health Service

Injury Death Rates by Age AII/AN, 1994-96



Source: Indian Health Service

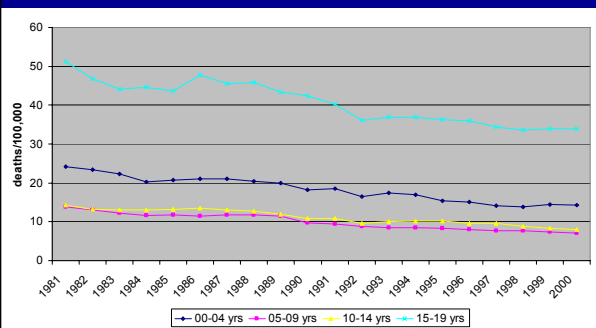
Unintentional Injury Mortality Trends By Race, USA



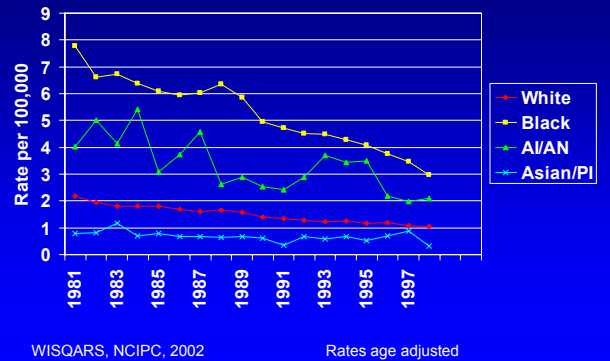
WISQARS, NCIPC, 2005

Rates age adjusted

Unintentional Injury Rates 1981-2000



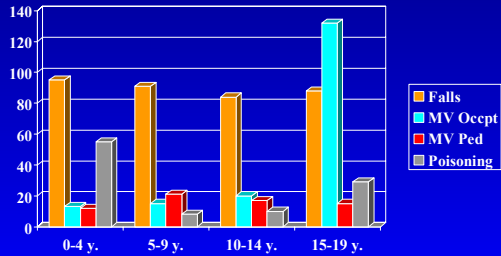
Fire/Burn Mortality Trends, Ages 0-19, USA



WISQARS, NCIPC, 2002

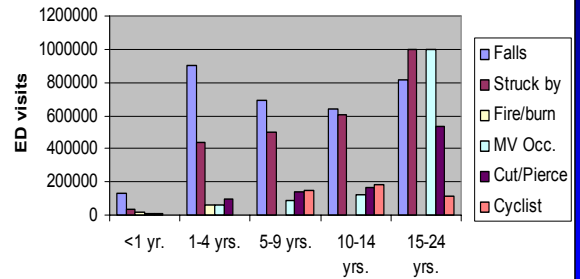
Rates age adjusted

Rates of Injury Hospitalizations by mechanism and age



Source: CA, MD, MI, NY, VT, WA
N=601,256

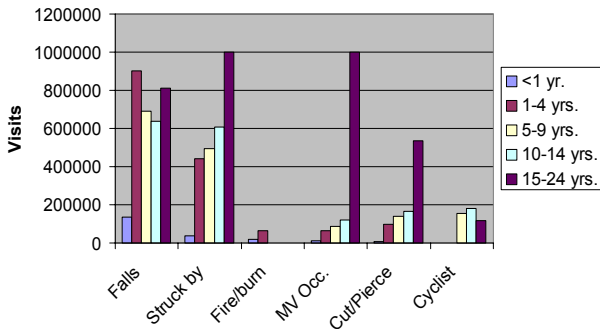
ED Visits for Non-Fatal Unintentional Injury By Age, USA, 2000



Excludes poisonings

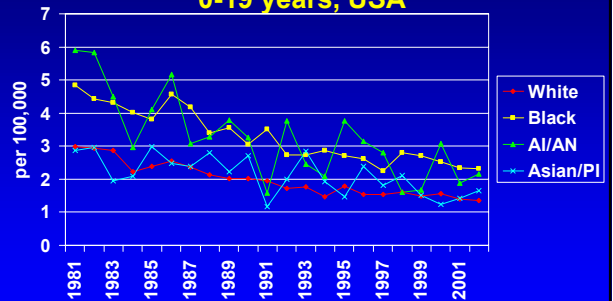
WISQARS, NCIPC, 2005

Non-Fatal ED Visits for Unintentional Injury, USA



WISQARS, NCIPC, 2005

Drowning Mortality Trends 0-19 years, USA



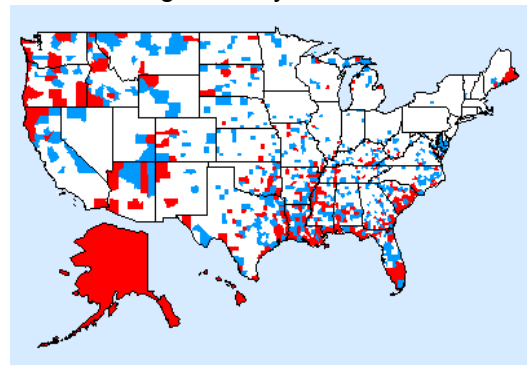
WISQARS, NCIPC, 2005

Rates age adjusted

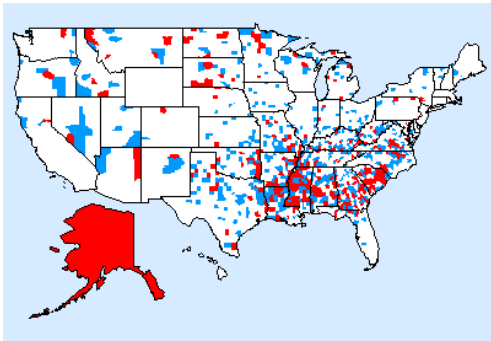
Leading Causes of Injury Mortality, by age group

	< 1 year	1-4 years	5-9 years	10-14 years	15-19 years
1) Unintent Suffocation		MVC	MVC	MVC	MVC
2) Homicide		Drowning	Drowning	Drowning	Homicide Gun
3) MVC		Fire/burn	Fire/burn	Suicide Suffocation	Suicide Gun
4) Drowning		Suffocation	Homicide Gun	Homicide Gun	Suicide Suffocation
5) Fire/burn		Homicide	Suffocation	Suicide Gun	Drowning

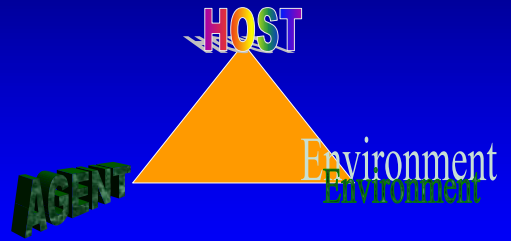
Drowning Mortality, US Counties



Fire and Burn Mortality, US Counties 1989-98



Public Health Model



Haddon's Matrix

- Paradigm developed for motor vehicle safety
- Incorporates traditional domains of public health model
- Adds time dimension in matrix

Haddon's Matrix

	Host	Agent	Environment
Pre-event			
Real-time			
Post-event			

Haddon's Matrix Drowning

Haddon's Matrix Fire/Burn Injuries

Haddon's Matrix
Firearm Injury