

Public Health and Traffic Safety on Tribal Roads: Bridging the Gap Between Transportation and Safety

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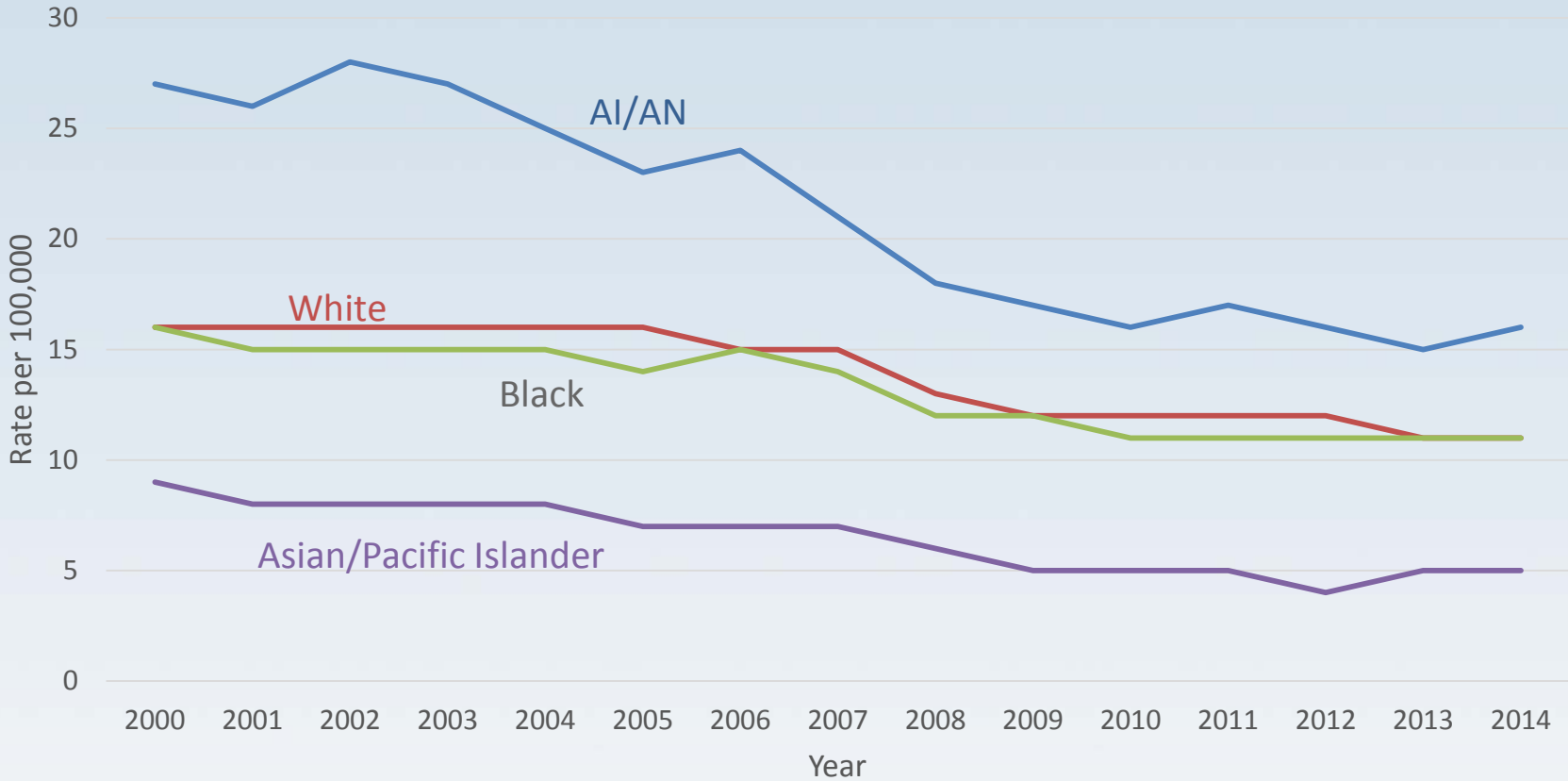


Overview

- Public health and injury prevention defined
- Safety and the 4 E's
- Public Health (PH) Approach
- PH role in transportation
- Incorporating PH into Tribal transportation plans
- Partnerships
- CDC Tribal Road Safety Resources



Motor Vehicle Death Rates by Race



Source: CDC WISQARS 2016; www.cdc.gov/ncipc/wisqars



Injury Pyramid



1. NCHS Vital Statistics System for numbers of deaths. Bureau of Census for population estimates

2/3. 1998-99 Trends in Indian Health

4. Inpatient Hospital Per Diem Rate, Federal Register: 1/24/01, Vol. 66, No. 16



What is Public Health?

- Public health (PH) is a science concerned with health at a population level vs. at the individual level
 - Prevention vs. treatment



Injury Prevention

- Injury Prevention (IP) is the discipline of public health that works to prevent injuries before they occur
 - Motor vehicle crashes
 - ATV crashes
 - Pedestrian and bicycle
 - Drowning
- Injuries are not accidents!



The IHS Injury Prevention Program

- To raise the health status of American Indians and Alaska Natives to the highest possible level by:
 - Decreasing the incidence of severe injuries and death to the lowest possible level, and
 - Increasing the ability of tribes to address their injury problems

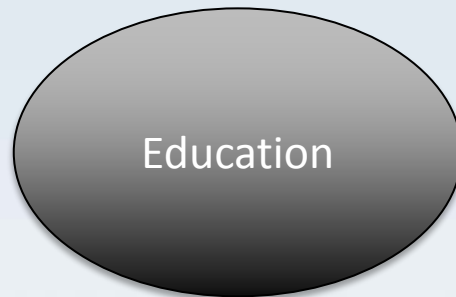
<https://www.ihs.gov/InjuryPrevention/>



4E's

- Education
- **Engineering**
- Enforcement
- EMS

- Education
- **Environment**
- Enforcement
- EMS



Environment vs. Engineering

- The environment encompasses much more than the physical roadway
- Includes both the physical and social environment
 - Restraint usage
 - Impairment
 - Distraction
 - Speed



Domains Important for Motor Vehicle Safety



Transportation and Safety



- Historically two separate domains with little interaction
 - Very few tribes have “safety” programs
 - Safety is much more than education!
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- Who is doing this work at your Tribe?



Public Health Approach

- The IHS IPP utilizes a public health approach to prevent injuries
 - Injuries occur in predictable and preventable patterns in a community
 - Injuries are usually caused by multiple risk factors

