Mortality Among Alaska Native People, 1980-2013

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Overview

- Methods
- Leading of Causes of Death among Alaska Native People
- Statewide Trends in All-Cause Mortality and Life Expectancy
- Leading Causes of Years of Potential Life Lost (YPLL)
Methods

▪ State of Alaska death certificates determine:
  ▪ AN/AI status
  ▪ Underlying cause of death
  ▪ Age
  ▪ Location (state and region), based on residence

▪ NCHS Bridged Race and Alaska DLWD population estimates for rate denominators

▪ Age adjusted to 2000 U.S. standard population

▪ Death codes aggregated according to CDC 113 cause list

▪ Analysis limited to Alaska residents
Leading Causes of Death

- Cancer
- Heart Disease
- Unintentional injury
- Suicide
- COPD

Rate per 100,000

Alaska Natives vs. U.S. Whites
Trend in All-Cause Mortality

RATE PER 100,000

1234.0

982.7

1076.7

Alaska Natives
U.S. Whites

↓ 25%

↓ 13%

↓ 13%

↓ 25%
Trend in Life Expectancy

- **Alaska Natives**
  - 2004-2008: 70.7
  - Increase: 6%

- **U.S. Whites**
  - 1980-1983: 74.9
  - 2004-2008: 79.1
  - Increase: 8%
Total Years of Potential Life Lost (YPLL)

<table>
<thead>
<tr>
<th>Cause</th>
<th>Years of Potential Life Lost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unintentional Injury</td>
<td>19,349</td>
</tr>
<tr>
<td>Suicide</td>
<td>11,069</td>
</tr>
<tr>
<td>Cancer</td>
<td>9,914</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>9,091</td>
</tr>
<tr>
<td>Chronic Liver Disease</td>
<td>3,091</td>
</tr>
</tbody>
</table>
Contact Information

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# Leading Causes of Death

<table>
<thead>
<tr>
<th>Ranked Cause of Death</th>
<th>Alaska Natives</th>
<th>U.S. Whites</th>
<th>Rate Ratio</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% of total deaths</td>
<td>Rate per 100,000</td>
<td>% of total deaths</td>
<td>Rate per 100,000</td>
</tr>
<tr>
<td>1 Cancer</td>
<td>908 (20.9%)</td>
<td>234.6</td>
<td>2,466,030 (22.9%)</td>
<td>168.8</td>
</tr>
<tr>
<td>2 Heart Disease</td>
<td>723 (16.6%)</td>
<td>190.3</td>
<td>2,580,628 (24.0%)</td>
<td>173.1</td>
</tr>
<tr>
<td>3 Unintentional Injury</td>
<td>552 (12.7%)</td>
<td>104.8</td>
<td>540,458 (5.0%)</td>
<td>41.0</td>
</tr>
<tr>
<td>4 Suicide</td>
<td>250 (5.7%)</td>
<td>40.6</td>
<td>177,650 (1.7%)</td>
<td>13.8</td>
</tr>
<tr>
<td>5 COPD</td>
<td>218 (5.0%)</td>
<td>65.6</td>
<td>653,868 (6.1%)</td>
<td>44.7</td>
</tr>
</tbody>
</table>
## Years of Potential Life Lost (YPLL)

<table>
<thead>
<tr>
<th>Ranked Cause</th>
<th>Total YPLL</th>
<th># Deaths &lt;75</th>
<th>Percentage of Total YPLL</th>
<th>Mean YPLL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Unintentional Injury</td>
<td>19,349</td>
<td>510</td>
<td>23.6%</td>
<td>37.9</td>
</tr>
<tr>
<td>2 Suicide</td>
<td>11,069</td>
<td>249</td>
<td>13.5%</td>
<td>44.5</td>
</tr>
<tr>
<td>3 Cancer</td>
<td>9,914</td>
<td>627</td>
<td>12.1%</td>
<td>15.8</td>
</tr>
<tr>
<td>4 Heart Disease</td>
<td>9,091</td>
<td>462</td>
<td>11.1%</td>
<td>19.7</td>
</tr>
<tr>
<td>5 Chronic Liver Disease</td>
<td>3,091</td>
<td>114</td>
<td>3.8%</td>
<td>27.1</td>
</tr>
</tbody>
</table>