

The two leading causes of AI/AN deaths (2002-2004) for ages 1 to 4 were unintentional injuries and congenital anomalies. In 2003, unintentional injuries and congenital anomalies were the two leading causes of death for the U.S. all-races and white populations.

Chart 4.1 Death Rates, Leading Causes: Ages 1 to 4 Years

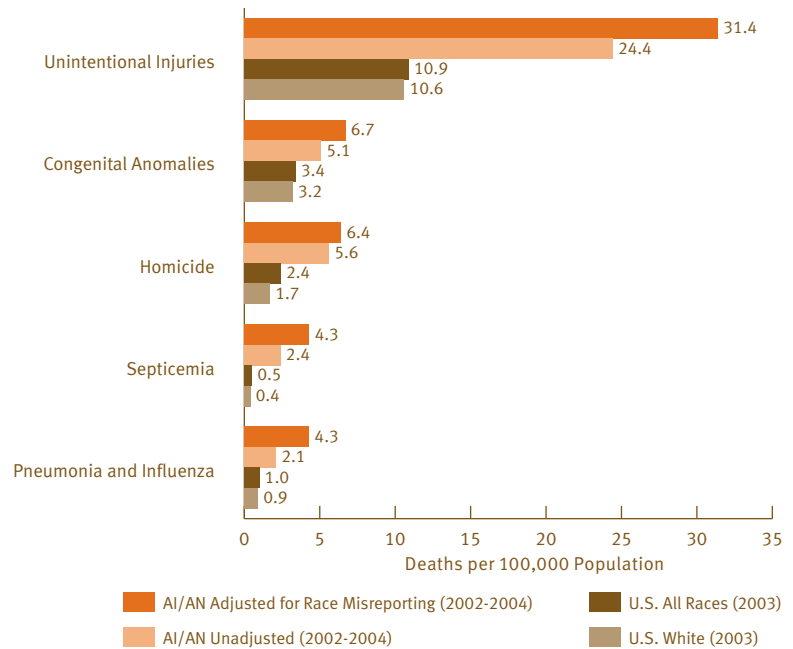


Table 4.1 Ten Leading Causes of Death for Decedents 1 to 4 Years of Age

American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)

Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES Rate	U.S. WHITE Rate	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
<b>All Causes</b>	<b>225</b>	<b>303</b>	<b>60.3</b>	<b>81.2</b>	<b>31.5</b>	<b>28.5</b>	<b>2.6</b>	<b>2.8</b>
Unintentional injuries	91	117	24.4	31.4	10.9	10.6	2.9	3.0
Motor vehicle	45	58	12.1	15.5	3.9	3.8	4.0	4.1
Other unintentional injuries	46	59	12.3	15.9	7.0	6.8	2.3	2.3
Congenital anomalies	19	25	5.1	6.7	3.4	3.2	2.0	2.1
Homicide	21	24	5.6	6.4	2.4	1.7	2.7	3.8
Septicemia	9	16	2.4	4.3	0.5	0.4	8.6	10.8
Pneumonia and influenza	8	16	2.1	4.3	1.0	0.9	4.3	4.8
Malignant neoplasms	9	13	2.4	3.5	2.5	2.6	1.4	1.3
Diseases of the heart	8	11	2.1	2.9	1.2	1.0	2.4	2.9
Acute bronchitis and acute bronchiolitis	2	4	0.5	1.1	0.2	0.1	5.5	11.0
Benign neoplasms <sup>2</sup>	3	3	0.8	0.8	0.3	0.3	2.7	2.7
Meningococcal infections	1	3	0.3	0.8	0.1	0.1	8.0	8.0
<b>All other causes</b>	<b>48</b>	<b>63</b>						

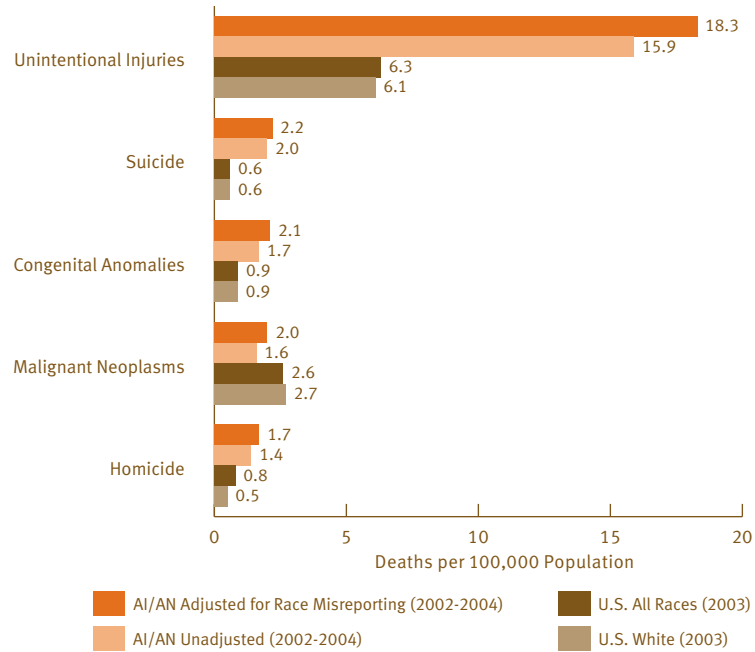
<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.  
<sup>2</sup>Benign neoplasms describes: in situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior.

NOTE: Causes of death listed are based on the order of adjusted number of deaths.  
 SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10. Hyattsville, MD: National Center for Health Statistics. 2007.

# PART 4: GENERAL MORTALITY STATISTICS

The two leading causes of AI/AN deaths (2002-2004) for ages 5 to 14 years were unintentional injuries and suicide. For the U.S. all-races and white populations (2003) the two leading causes of death were unintentional injuries and malignant neoplasms.

**Chart 4.2 Death Rates, Leading Causes: Ages 5 to 14 Years**



**Table 4.2 Ten Leading Causes of Death for Decedents 5 to 14 Years of Age**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
<b>All Causes</b>	<b>318</b>	<b>368</b>	<b>30.6</b>	<b>35.5</b>	<b>17.0</b>	<b>15.8</b>	<b>2.1</b>	<b>2.2</b>
Unintentional injuries	165	190	15.9	18.3	6.3	6.1	2.9	3.0
Motor vehicle	102	116	9.8	11.2	4.0	4.1	2.8	2.7
Other unintentional injuries	63	74	6.1	7.1	2.3	2.0	3.1	3.6
Suicide	21	23	2.0	2.2	0.6	0.6	3.7	3.7
Congenital anomalies	18	22	1.7	2.1	0.9	0.9	2.3	2.3
Malignant neoplasms	17	21	1.6	2.0	2.6	2.7	0.8	0.7
Homicide	15	18	1.4	1.7	0.8	0.5	2.1	3.4
Diseases of the heart	8	10	0.8	1.0	0.6	0.5	1.7	2.0
Septicemia	8	8	0.8	0.8	1.9	1.7	0.4	0.5
Pneumonia and influenza	2	3	0.2	0.3	0.4	0.3	0.8	1.0
Benign neoplasms	3	3	0.3	0.3	0.2	0.2	1.5	1.5
Chronic lower respiratory	2	2	0.2	0.2	0.3	0.2	2.7	4.0
<b>All other causes</b>	<b>59</b>	<b>68</b>	<b>5.7</b>	<b>6.6</b>				

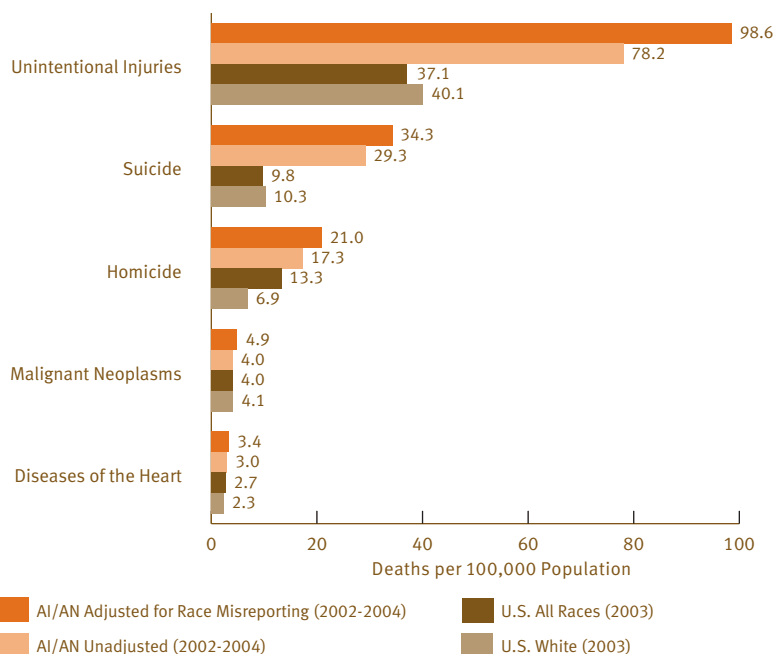
<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10. Hyattsville, MD: National Center for Health Statistics. 2007.

The two leading causes of AI/AN deaths (2002-2004) and the U.S. white populations (2003) for ages 15 to 24 years were unintentional injuries and suicide. For the U.S. all-races population (2003) the two leading causes of death were unintentional injuries and homicide.

**Chart 4.3** Death Rates, Leading Causes: Ages 15 to 24 Years



**Table 4.3** Ten Leading Causes of Death for Decedents 15 to 24 Years of Age

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
<b>All Causes</b>	<b>1,491</b>	<b>1,831</b>	<b>150.8</b>	<b>185.2</b>	<b>81.5</b>	<b>75.8</b>	<b>2.3</b>	<b>2.4</b>
Unintentional injuries	773	975	78.2	98.6	37.1	40.1	2.7	2.5
Motor vehicle	614	785	62.1	79.4	26.7	28.6	3.0	2.8
Other unintentional injuries	159	190	16.1	19.2	10.4	11.5	1.8	1.7
Suicide	290	339	29.3	34.3	9.8	10.3	3.5	3.3
Homicide	171	208	17.3	21.0	13.3	6.9	1.6	3.0
Malignant neoplasms	40	48	4.0	4.9	4.0	4.1	1.2	1.2
Diseases of the heart	30	34	3.0	3.4	2.7	2.3	1.3	1.5
Chronic lower respiratory diseases	6	11	0.6	1.1	0.5	0.3	2.2	3.7
Chronic liver disease and cirrhosis	7	9	0.7	0.9	0.4	0.3	2.3	3.0
Congenital anomalies	9	9	0.9	0.9	1.1	1.1	0.8	0.8
Nephritis, nephrotic syndrome and nephrosis	7	9	0.7	0.9	0.2	0.2	4.5	4.5
Pneumonia and influenza	6	7	0.6	0.7	0.5	0.5	1.4	1.4
<b>All other causes</b>	<b>152</b>	<b>182</b>						

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

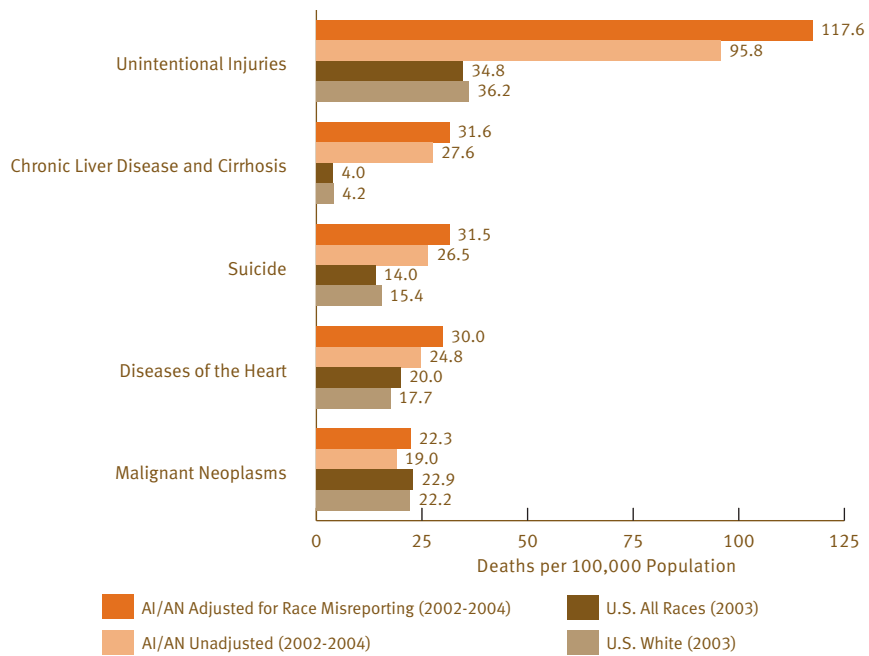
NOTE: Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10. Hyattsville, MD: National Center for Health Statistics. 2007.

# PART 4: GENERAL MORTALITY STATISTICS

The two leading causes of AI/AN deaths (2002-2004) for ages 25 to 44 years were unintentional injuries and chronic liver disease and cirrhosis. For the U.S. all-races and U.S. white populations (2003) the two leading causes of death were unintentional injuries and malignant neoplasms.

**Chart 4.4** Death Rates, Leading Causes: Ages 25 to 44 Years



**Table 4.4** Ten Leading Causes of Death for Decedents 25 to 44 Years of Age

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

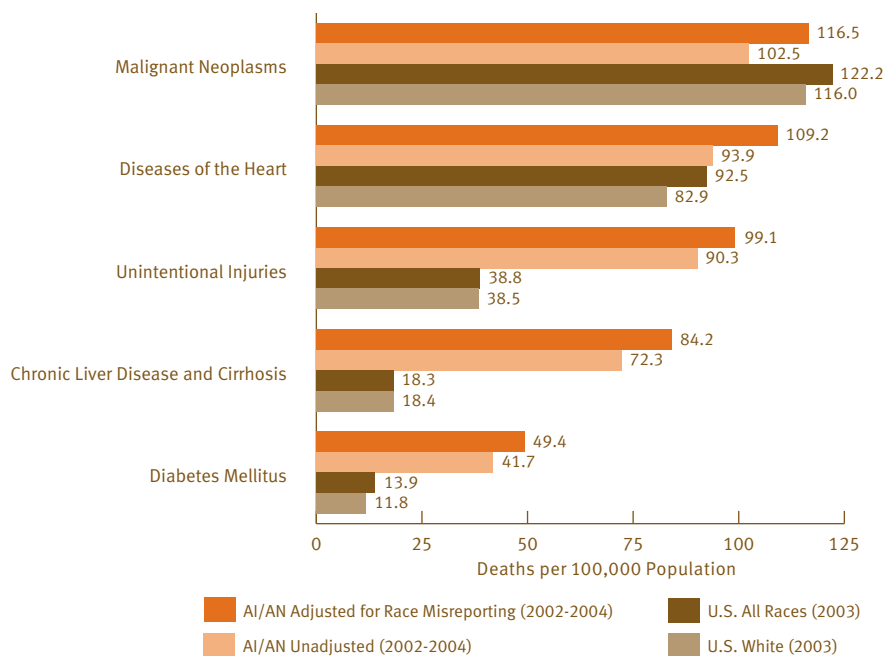
Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES Rate	U.S. WHITE Rate	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
<b>All Causes</b>	<b>4,345</b>	<b>5,180</b>	<b>298.7</b>	<b>356.1</b>	<b>155.2</b>	<b>143.1</b>	<b>2.3</b>	<b>2.5</b>
Unintentional injuries	1,393	1,711	95.8	117.6	34.8	36.2	3.4	3.2
Motor vehicle	796	1,008	54.7	69.2	16.4	16.7	4.2	4.1
Other unintentional injuries	597	703	41.1	48.4	18.4	19.5	2.6	2.5
Chronic liver disease and cirrhosis	402	459	27.6	31.6	4.0	4.2	7.9	7.5
Suicide	385	458	26.5	31.5	14.0	15.4	2.3	2.0
Diseases of the heart	361	437	24.8	30.0	20.0	17.7	1.5	1.7
Malignant neoplasms	277	325	19.0	22.3	22.9	22.2	1.0	1.0
Homicide	247	284	17.0	19.5	9.4	5.5	2.1	3.5
Diabetes mellitus	108	125	7.4	8.6	3.2	2.8	2.7	3.1
Human immunodeficiency virus (HIV) infection	86	98	5.9	6.7	8.2	4.5	0.8	1.5
Cerebrovascular diseases	73	86	5.0	5.9	3.6	2.8	1.6	2.1
Septicemia	65	73	4.5	5.0	1.4	1.2	3.6	4.2
<b>All other causes</b>	<b>948</b>	<b>1,135</b>						

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Causes of death listed are based on the order of adjusted number of deaths.  
SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10. Hyattsville, MD: National Center for Health Statistics. 2007.

The two leading causes of AI/AN deaths (2002-2004) for ages 45 to 54 years were malignant neoplasms and diseases of the heart. In 2003, the U.S. all-races and U.S. white populations had identical ranking to that of AI/AN for these two leading causes of death.

**Chart 4.5** Death Rates, Leading Causes: Ages 45 to 54 Years



**Table 4.5** Ten Leading Causes of Death for Decedents 45 to 54 Years of Age

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
<b>All Causes</b>	<b>3,798</b>	<b>4,295</b>	<b>636.0</b>	<b>719.2</b>	<b>433.2</b>	<b>397.5</b>	<b>1.7</b>	<b>1.8</b>
Malignant neoplasms	612	696	102.5	116.5	122.2	116.0	1.0	1.0
Diseases of the heart	561	652	93.9	109.2	92.5	82.9	1.2	1.3
Unintentional injuries	539	592	90.3	99.1	38.8	38.5	2.6	2.6
Motor vehicle	265	296	44.4	49.6	14.9	14.9	3.3	3.3
Other unintentional injuries	274	296	45.9	49.5	23.9	23.6	2.1	2.1
Chronic liver disease and cirrhosis	432	503	72.3	84.2	18.3	18.4	4.6	4.6
Diabetes mellitus	249	295	41.7	49.4	13.9	11.8	3.6	4.2
Cerebrovascular diseases	112	126	18.8	21.1	15.0	11.4	1.4	1.9
Suicide	91	97	15.2	16.2	15.9	18.4	1.0	0.9
Nephritis, nephrotic syndrome, and nephrosis	72	76	12.1	12.7	5.1	3.5	2.5	3.6
Homicide	70	72	11.7	12.1	4.9	3.5	2.5	3.5
Pneumonia and influenza	65	68	10.9	11.4	5.2	4.7	2.2	2.4
<b>All other causes</b>	<b>995</b>	<b>1,118</b>						

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

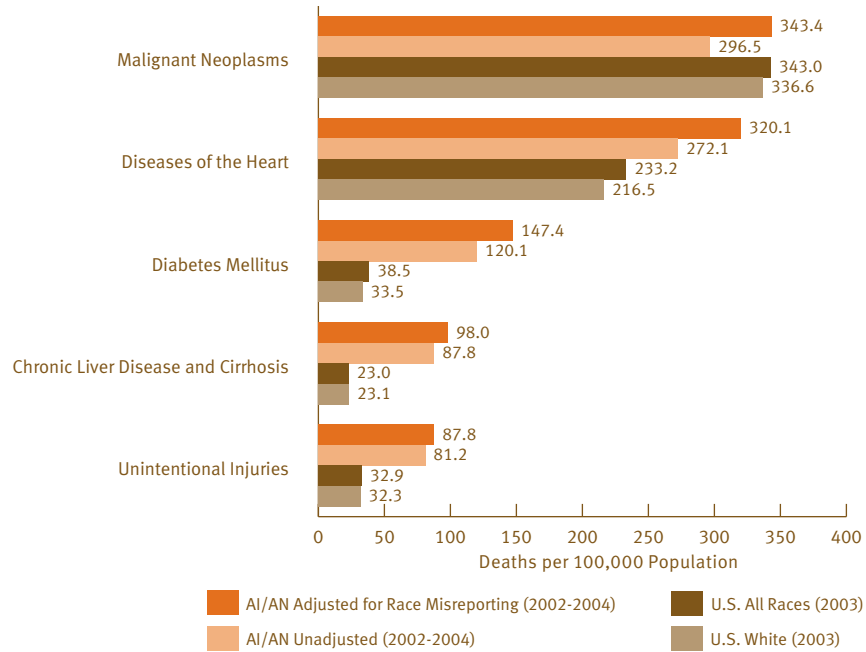
NOTE: Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10. Hyattsville, MD: National Center for Health Statistics. 2007.

# PART 4: GENERAL MORTALITY STATISTICS

The two leading causes of AI/AN deaths (2002-2004) for ages 55 to 64 years were malignant neoplasms and diseases of the heart. In 2003, the two leading causes of death for both the U.S. all-races and U.S. white populations (2003) were malignant neoplasm and disease of the heart.

**Chart 4.6** Death Rates, Leading Causes: Ages 55 to 64 Years



**Table 4.6** Ten Leading Causes of Death for Decedents 55 to 64 Years of Age

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

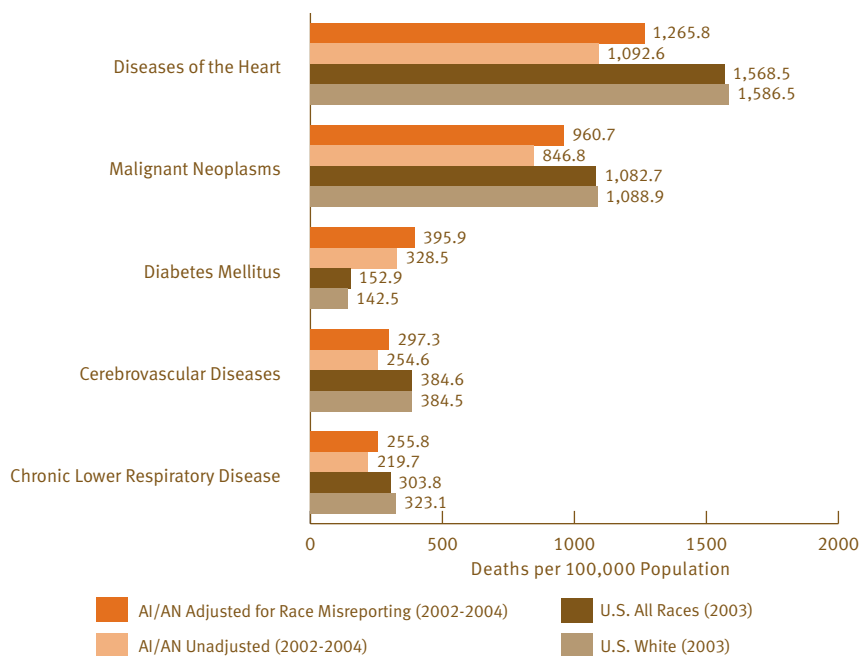
Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate		Rate	Rate	U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
<b>All Causes</b>	<b>4,389</b>	<b>5,083</b>	<b>1,246.6</b>	<b>1,443.8</b>	<b>940.9</b>	<b>892.2</b>	<b>1.5</b>	<b>1.6</b>
Malignant neoplasms	1,044	1,209	296.5	343.4	343.0	336.6	1.0	1.0
Diseases of the heart	958	1,127	272.1	320.1	233.2	216.5	1.4	1.5
Diabetes mellitus	423	519	120.1	147.4	38.5	33.5	3.8	4.4
Chronic liver disease and cirrhosis	309	345	87.8	98.0	23.0	23.1	4.3	4.2
Unintentional injuries	286	309	81.2	87.8	32.9	32.3	2.7	2.7
Motor vehicle	140	155	39.8	44.1	14.3	14.0	3.1	3.2
Other unintentional injuries	146	154	41.4	43.7	18.6	18.3	2.3	2.4
Chronic lower respiratory diseases	158	191	44.9	54.3	43.3	45.2	1.3	1.2
Cerebrovascular diseases	135	161	38.3	45.7	35.6	29.4	1.3	1.6
Nephritis, nephrotic syndrome, and nephrosis	97	113	27.6	32.1	13.6	10.6	2.4	3.0
Septicemia	85	93	24.1	26.4	13.1	11.2	2.0	2.4
Pneumonia and influenza	81	89	23.0	25.3	11.2	10.3	2.3	2.5
<b>All other causes</b>	<b>813</b>	<b>927</b>						

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Causes of death listed are based on the order of adjusted number of deaths.  
SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10. Hyattsville, MD: National Center for Health Statistics. 2007.

The two leading causes of AI/AN deaths (2002-2004) for 65 years of age and older were diseases of the heart and malignant neoplasms. For the U.S. all-races and U.S. white populations (2003) diseases of the heart and malignant neoplasms were also the two leading causes of death. Diabetes mellitus was the third leading cause of death for AI/AN but the sixth leading cause of death for both U.S. All-races and the U.S. white populations.

**Chart 4.7** Death Rates, Leading Causes: Ages 65 Years of Age and Older



**Table 4.7** Ten Leading Causes of Death for Decedents 65 Years of Age and Older

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
<b>All Causes</b>	<b>13,258</b>	<b>15,037</b>	<b>4,144.3</b>	<b>4,700.4</b>	<b>5,023.4</b>	<b>5,081.7</b>	<b>0.9</b>	<b>0.9</b>
Diseases of the heart	3,502	4,057	1,092.6	1,265.8	1,568.5	1,586.5	0.8	0.8
Malignant neoplasms	2,714	3,079	846.8	960.7	1,082.7	1,088.9	0.9	0.9
Diabetes mellitus	1,053	1,269	328.5	395.9	152.9	142.5	2.6	2.8
Cerebrovascular diseases	816	953	254.6	297.3	384.6	384.5	0.8	0.8
Chronic lower respiratory disease	704	820	219.7	255.8	303.8	323.1	0.8	0.8
Pneumonia and influenza	525	567	163.8	176.9	160.6	164.5	1.1	1.1
Unintentional injuries	457	483	142.6	150.7	95.6	98.9	1.6	1.5
Motor vehicle	151	165	47.1	51.5	21.1	21.4	2.5	2.4
Other unintentional injuries	306	318	95.5	99.2	74.5	77.5	1.3	1.3
Nephritis, nephrotic syndrome, and nephrosis	326	356	101.7	111.1	98.1	92.5	1.1	1.2
Alzheimer's disease	223	241	69.6	75.2	174.9	185.2	0.4	0.4
Chronic liver disease and cirrhosis	221	240	69.0	74.9	28.4	29.7	2.6	2.5
<b>All other causes</b>	<b>2,717</b>	<b>2,972</b>						

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

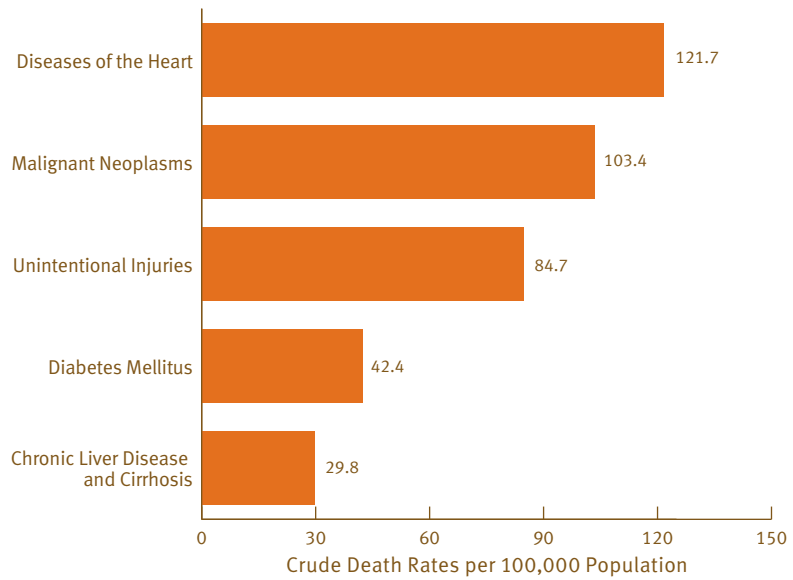
NOTE: Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10.0 Hyattsville, MD: National Center for Health Statistics. 2007.

The two leading causes of AI/AN deaths (2002-2004) for all ages were diseases of the heart and malignant neoplasms.

**Chart 4.8** Death Rates for Leading Causes for All Ages

*American Indians and Alaska Natives (2002-2004)*



**Table 4.8** Ten Leading Causes of Death for Decedents of All Ages

*American Indians and Alaska Natives, IHS Service Area, 2002-2004  
(Crude Rate per 100,000 Population)*

Cause of Death	Number		Rate	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
<b>All Causes</b>	<b>28,625</b>	<b>33,088</b>	<b>548.7</b>	<b>632.6</b>
Diseases of the heart	5,447	6,347	104.4	121.7
Malignant neoplasms	4,714	5,392	90.4	103.4
Unintentional injuries	3,746	4,417	71.8	84.7
Motor vehicle	2,126	2,594	40.8	49.7
Other unintentional injuries	1,620	1,823	31.0	35.0
Diabetes mellitus	1,836	2,211	35.2	42.4
Chronic liver disease and cirrhosis	1,371	1,556	26.3	29.8
Cerebrovascular diseases	1,143	1,333	21.9	25.6
Chronic lower respiratory diseases	945	1,104	18.1	21.2
Suicide	831	961	15.9	18.4
Pneumonia and influenza	767	832	14.7	15.9
Homicide	561	639	10.8	12.2
<b>All other causes</b>	<b>7,264</b>	<b>8,296</b>		

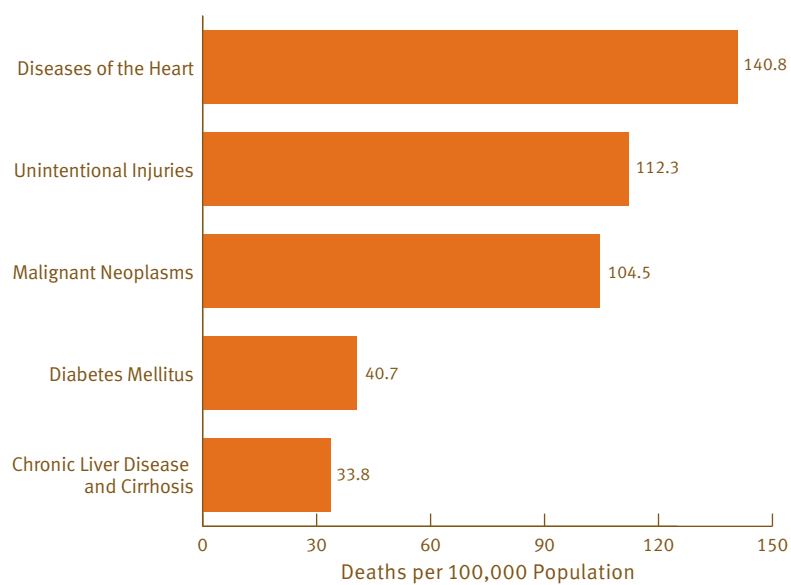
<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.  
NOTE: Causes of death listed are based on the order of adjusted rate of deaths.



The two leading causes of deaths for AI/AN males (2002-2004) were diseases of the heart and unintentional injuries.

**Chart 4.9** Death Rates, Leading Causes: Males

*American Indians and Alaska Natives (2002-2004)*



The two leading causes of deaths for AI/AN females (2002-2004) were diseases of the heart and malignant neoplasms.

**Chart 4.10** Death Rates, Leading Causes: Females

*American Indians and Alaska Natives (2002-2004)*

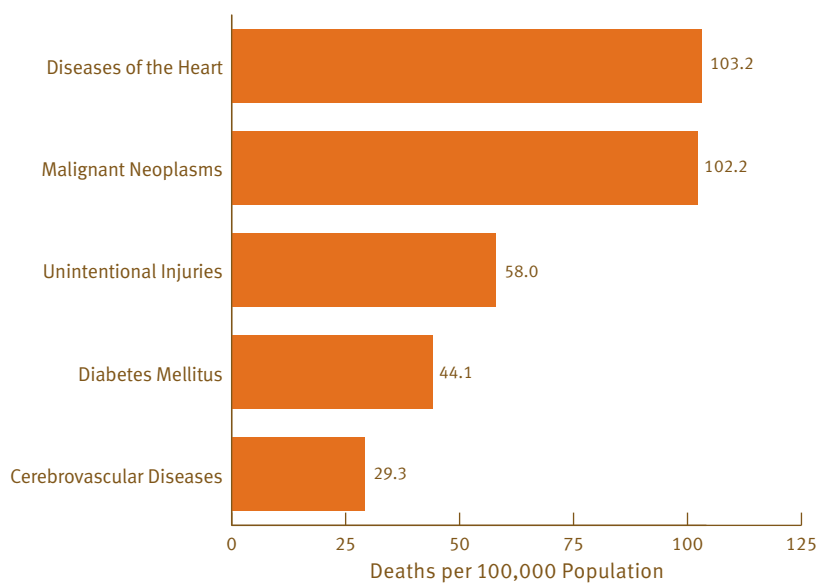


Table 4.9 Leading Causes of Death by Sex

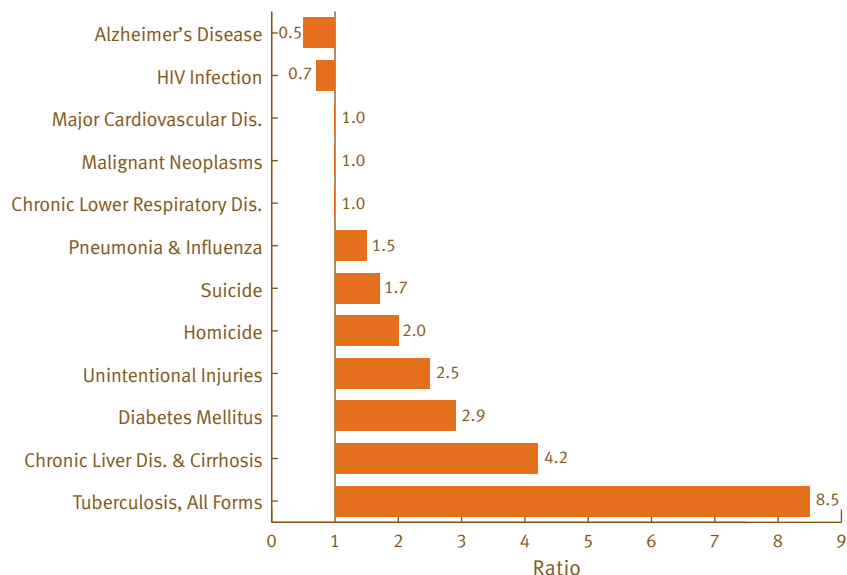
*American Indians and Alaska Natives, IHS Service Area, 2002-2004  
(Rate per 100,000 Population)*

Cause of Death	Number		Rate	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
<b>MALE</b>				
<i>All Causes</i>	<i>15,669</i>	<i>18,014</i>	<i>608.6</i>	<i>699.7</i>
Diseases of the heart	3,072	3,624	119.3	140.8
Unintentional injuries	2,522	2,890	98.0	112.3
Motor vehicle	1,389	1,640	54.0	63.7
Other unintentional injuries	1,133	1,250	44.0	48.6
Malignant neoplasms	2,341	2,691	90.9	104.5
Diabetes mellitus	867	1,047	33.7	40.7
Chronic liver disease and cirrhosis	779	871	30.3	33.8
Suicide	659	758	25.6	29.4
Cerebrovascular diseases	481	560	18.7	21.8
Chronic lower respiratory diseases	480	568	18.6	22.1
Homicide	434	481	16.9	18.7
Pneumonia and influenza	372	408	14.4	15.8
<i>All other causes</i>	<i>3,662</i>	<i>4,116</i>		
<b>FEMALE</b>				
<i>All Causes</i>	<i>12,976</i>	<i>15,005</i>	<i>491.2</i>	<i>568.0</i>
Diseases of the heart	2,378	2,726	90.0	103.2
Malignant neoplasms	2,373	2,701	89.8	102.2
Unintentional injuries	1,230	1,533	46.6	58.0
Motor vehicle	740	957	28.0	36.2
Other unintentional injuries	490	576	18.5	21.8
Diabetes mellitus	969	1,164	36.7	44.1
Cerebrovascular diseases	662	773	25.1	29.3
Chronic liver disease and cirrhosis	592	685	22.4	25.9
Chronic lower respiratory diseases	465	536	17.6	20.3
Pneumonia and influenza	395	424	15.0	16.0
Nephritis, nephrotic syndrome, and nephrosis	288	318	10.9	12.0
Septicemia	260	283	9.8	10.7
<i>All other causes</i>	<i>3,364</i>	<i>3,862</i>		

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

The AI/AN age-adjusted death rates for all causes of death for years 2002-2004 is 1.2 times the rate for U.S. all-races (2003); tuberculosis (8.5 times), chronic liver disease and cirrhosis (4.2 times), diabetes (2.9 times), unintentional injuries (2.5) and homicide (2.0). AI/AN rates were below those of the U.S. all-races for Alzheimer's disease (0.5 times), and HIV infection (0.7 times). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.11** Selected Age-Adjusted Death Rates, Ratio of American Indians and Alaska Natives (2002-2004) to U.S. All Races (2003)



**Table 4.11**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE		U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
<b>All Causes</b>	<b>900.2</b>	<b>1,027.1</b>	<b>832.7</b>	<b>817.0</b>	<b>1.2</b>	<b>1.3</b>
Major cardiovascular diseases	261.2	301.0	306.1	298.9	1.0	1.0
Diseases of the heart	199.7	231.1	232.3	228.2	1.0	1.0
Cerebrovascular diseases	43.9	50.9	53.5	51.4	1.0	1.0
Atherosclerosis	3.5	3.9	4.4	4.5	0.9	0.9
Hypertension	6.5	6.9	9.6	8.0	0.7	0.9
Malignant neoplasms	159.2	180.7	190.1	188.5	1.0	1.0
Unintentional injuries	82.1	94.8	37.3	38.2	2.5	2.5
Motor vehicle	42.6	51.2	15.3	15.7	3.3	3.3
Other unintentional injuries	39.5	43.6	22.0	22.5	2.0	1.9
Diabetes mellitus	61.9	74.2	25.3	23.0	2.9	3.2
Chronic lower respiratory diseases	36.0	41.8	43.3	45.4	1.0	0.9
Chronic liver disease and cirrhosis	34.6	39.1	9.3	9.5	4.2	4.1
Pneumonia and influenza	29.9	32.3	22.0	21.9	1.5	1.5
Suicide	15.7	17.9	10.8	11.8	1.7	1.5
Homicide	10.9	12.2	6.0	3.7	2.0	3.3
Alzheimer's disease	10.8	11.6	21.4	22.2	0.5	0.5
Human immunodeficiency virus (HIV) infection	2.1	3.1	4.7	2.5	0.7	1.2
Tuberculosis, all forms	1.7	1.7	0.2	0.2	8.5	8.5

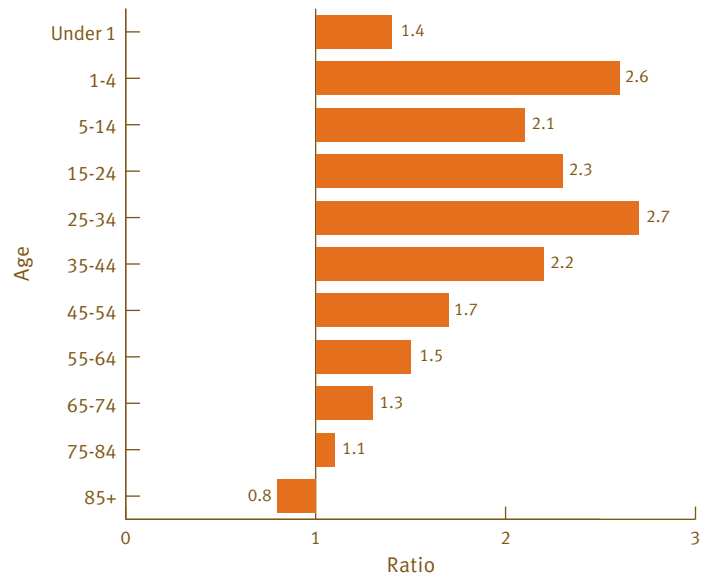
<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Heron MP, Smith BL, Deaths: Leading Causes for 2003, National Vital Statistics Reports; vol 55 no 10. Hyattsville, MD: National Center for Health Statistics. 2007.

The age-specific death rate for AI/AN (2002-2004) was more than double the U.S. all-races rate (2003) for age groups 1 through 44. The AI/AN rate was less than the U.S. all-races rate for only one age group, 85 years and older. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.12** Age-Specific Death Rates, Ratio of American Indians and Alaska Natives (2002-2004) to U.S. All Races (2003)



The age-specific death rate for AI/AN (2002-2004) was more than double the U.S. white rate (2003) for age groups 1 through 44. The AI/AN rate was less than the U.S. white rate for only one age group, 85 years and older. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.13** Age-Specific Death Rates, Ratio of American Indians and Alaska Natives (2002-2004) to U.S. White (2003)

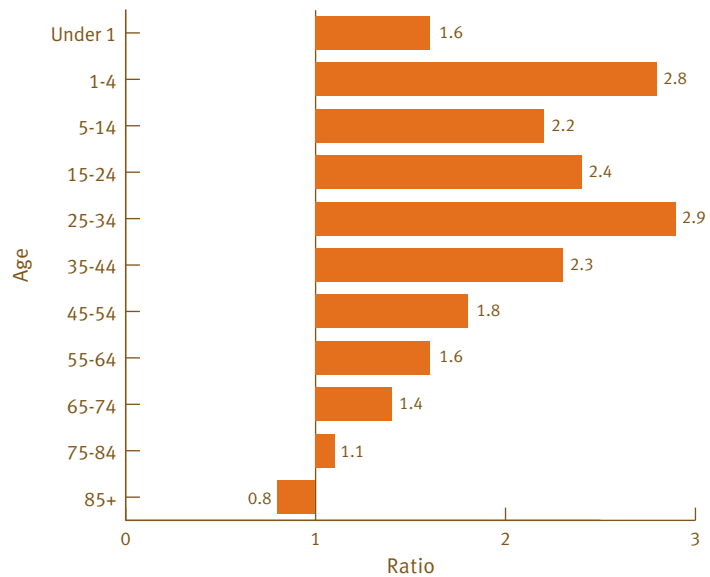


Table 4.12 Age-Specific Death Rates

American Indians and Alaska Natives, IHS Service Area, 2002-2004, and Selected U.S. Populations, 2003  
(Rate per 100,000 Population)

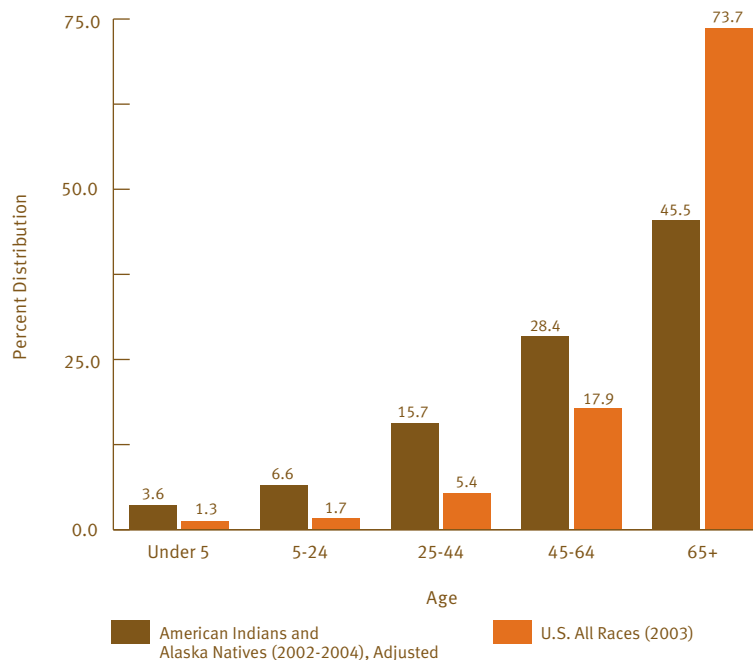
Age Group	AMERICAN INDIAN AND ALASKA NATIVE				U.S. RATE			RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate		All Races	White	Black	U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>					
Under 1	802	902	856.9	963.7	700.0	591.3	1,273.8	1.4	1.6
1-4	225	303	60.3	81.2	31.5	28.5	46.8	2.6	2.8
5-14	317	368	30.6	35.5	17.0	15.8	22.9	2.1	2.2
15-24	1,491	1,831	150.8	185.2	81.5	77.1	113.1	2.3	2.4
25-34	1,577	1,990	218.0	275.1	103.6	94.3	181.6	2.7	2.9
35-44	2,768	3,190	378.5	436.2	201.6	185.7	343.6	2.2	2.3
45-54	3,798	4,295	636.0	719.2	433.2	397.5	771.4	1.7	1.8
55-64	4,389	5,083	1,246.6	1,443.8	940.9	892.2	1,549.9	1.5	1.6
65-74	4,993	5,845	2,552.5	2,998.1	2,255.0	2,207.0	3,108.4	1.3	1.4
75-84	4,949	5,725	5,211.5	6,028.7	5,463.1	5,457.8	6,353.9	1.1	1.1
85+	3,316	3,467	11,077.5	11,581.8	14,593.3	14,792.3	13,976.7	0.8	0.8

<sup>1</sup>Adjusted-specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

SOURCE: Rates for U.S. Rate: Hoyert DL, Heron MP, Murphy SL, Kung H. Deaths: Final Data for 2003. National vital statistics vital statistics reports; vol 54 no 13. Hyattsville, MD: National Center for Health Statistics. 2006.

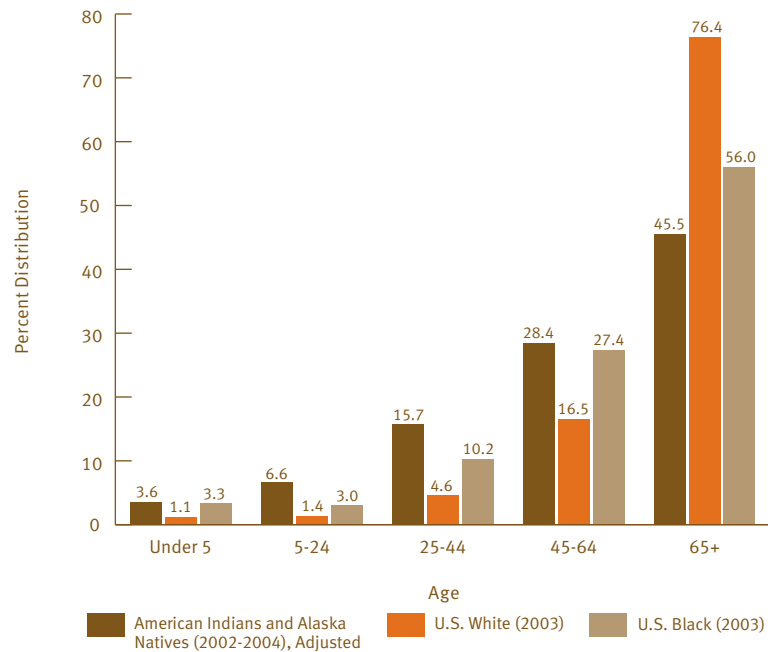
Of all AI/AN people who died during 2002-2004, 26 percent were under 45 years of age. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates. This compared to 8 percent for the U.S. all-races population (2003).

Chart 4.14 Deaths by Age



Seventeen (17) percent of black decedents and 7 percent of white decedents in 2003 were under 45 years of age.

**Chart 4.15 Deaths by Age and Race**



Thirty (30) percent of AI/AN male deaths (2002-2004) pertained to ages under 45. This compared with 21 percent for AI/AN female deaths. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.16 Deaths by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*

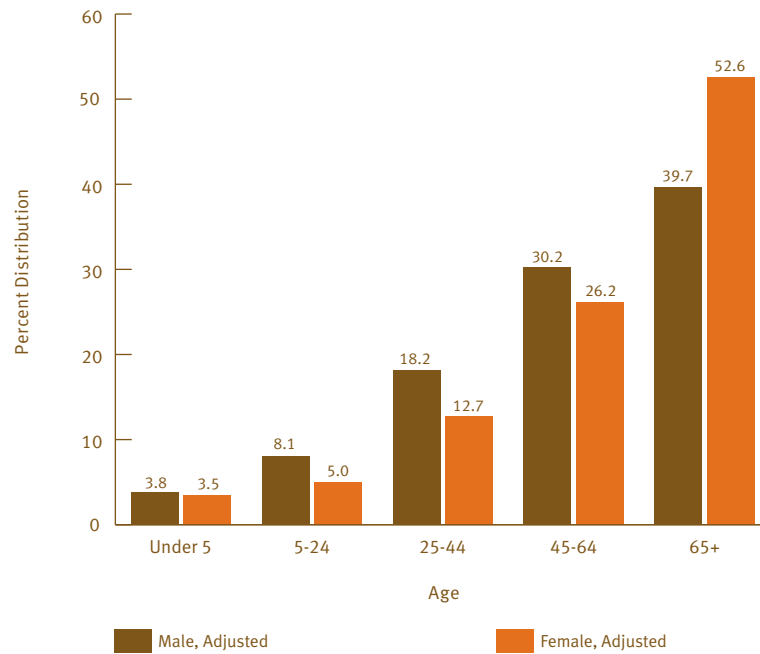


Table 4.14 Number and Percent Distribution of Deaths by Age and Sex

American Indians and Alaska Natives, IHS Service Area, 2002-2004, and Selected U.S. Populations, 2003

Age Group	AMERICAN INDIAN AND ALASKA NATIVE											
	Both Sexes				Male				Female			
	Number		Percent		Number		Percent		Number		Percent	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
<b>All Ages</b>	<b>28,634</b>	<b>33,008</b>	<b>100.0</b>	<b>100.0</b>	<b>15,669</b>	<b>18,014</b>	<b>100.0</b>	<b>100.0</b>	<b>12,976</b>	<b>15,005</b>	<b>100.0</b>	<b>100.0</b>
Under 1	802	902	2.8	2.7	470	514	3.0	2.9	332	388	2.6	2.6
1 to 4	225	303	0.8	0.9	121	167	0.8	0.9	104	136	0.8	0.9
5 to 14	317	368	1.1	1.1	182	209	1.2	1.2	135	159	1.0	1.1
15 to 24	1,491	1,831	5.2	5.5	1,064	1,246	6.8	6.9	427	585	3.3	3.9
25 to 34	1,577	1,990	5.5	6.0	1,077	1,298	6.9	7.2	500	692	3.9	4.6
35 to 44	2,768	3,190	9.7	9.7	1,750	1,977	11.2	11.0	1,018	1,213	7.8	8.1
45 to 54	3,798	4,295	13.3	13.0	2,323	2,592	14.8	14.4	1,475	1,703	11.4	11.3
55 to 64	4,389	5,083	15.3	15.4	2,477	2,849	15.8	15.8	1,912	2,234	14.7	14.9
65 to 74	4,993	5,845	17.4	17.7	2,627	3,083	16.8	17.1	2,366	2,762	18.2	18.4
75 to 84	4,949	5,725	17.3	17.3	2,349	2,766	15.0	15.4	2,600	2,959	20.0	19.7
85 and over	3,316	3,467	11.6	10.5	1,212	1,296	7.7	7.2	2,104	2,171	16.2	14.5
Age Not Stated	9	9	0.0	0.0	17	17	0.1	0.1	3	3	0.0	0.0

Age Group	UNITED STATES		
	All Races	White	Black
<b>Number of Deaths, All Ages</b>	<b>2,448,288</b>	<b>2,103,714</b>	<b>291,300</b>
<b>Percent Distribution, All Ages</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Under 1	1.1	0.9	2.9
1 to 4	0.2	0.2	0.4
5 to 14	0.3	0.2	0.5
15 to 24	1.4	1.2	2.5
25 to 34	1.7	1.4	3.4
35 to 44	3.7	3.2	6.8
45 to 54	7.2	6.4	12.7
55 to 64	10.7	10.1	14.7
65 to 74	16.9	16.7	18.2
75 to 84	28.7	29.8	21.4
85 and over	28.1	29.9	16.4
Age Not Stated	0.0	0.0	0.0

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Adjusted – specifies a number or percent adjusted to compensate for misreporting of AI/AN race on state death certificates.

The AI/AN age-adjusted death rate due to poisoning in 2002-2004 (15.9 deaths per 100,000 population) is 1.5 times higher than what it was in 1972-1974 (10.9). The 2002-2004 rate is 1.6 times the U.S. all-races rate of 10.0 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.17** Age-Adjusted Poisoning Death Rates

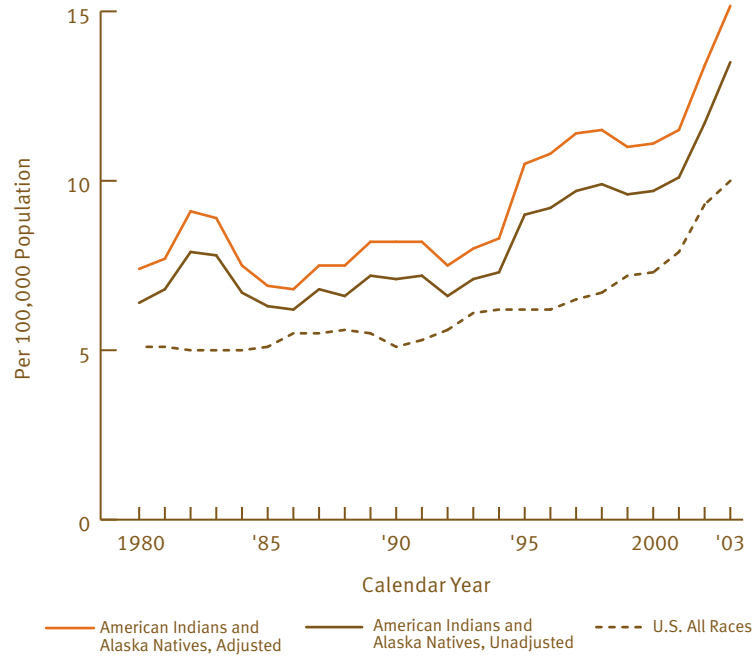




Table 4.17 Poisoning Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1972-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
2003-2005 (2004)	252	304						
2002-2004 (2003)	217	252	13.5	15.9	10.0	10.7	1.6	1.5
2001-2003 (2002)	178	210	11.7	13.4	9.3	9.9	1.4	1.4
2000-2002 (2001)	147	166	10.1	11.5	7.9	8.3	1.5	1.4
1999-2001 (2000)	137	154	9.7	11.1	7.3	7.6	1.5	1.5
1998-2000 (1999)	154	185	9.6	11.0	7.2	7.4	1.5	1.5
1997-1999 (1998)	135	154	9.9	10.5	6.7	6.8	1.7	1.7
1996-1998 (1997)	130	153	9.7	11.4	6.5	6.5	1.8	1.8
1995-1997 (1996)	129	162	9.2	10.8	6.2	6.2	1.7	1.7
1994-1996 (1995)	97	109	9.0	10.5	6.2	6.1	1.7	1.7
1993-1995 (1994)	96	109	7.3	8.3	6.2	6.1	1.3	1.4
1992-1994 (1993)	74	86	7.1	8.0	6.1	6.0	1.3	1.3
1991-1993 (1992)	81	94	6.6	7.5	5.6	5.6	1.3	1.3
1990-1992 (1991)	72	83	7.2	8.2	5.3	5.2	1.5	1.6
1989-1991 (1990)	83	95	7.1	8.2	5.1	5.1	1.6	1.6
1988-1990 (1989)	73	85	7.2	8.2	5.5	5.4	1.5	1.5
1987-1989 (1988)	69	79	6.6	7.5	5.6	5.5	1.3	1.4
1986-1988 (1987)	62	71	6.8	7.5	5.5	5.5	1.4	1.4
1985-1987 (1986)	72	77	6.2	6.8	5.5	5.7	1.2	1.2
1984-1986 (1985)	50	54	6.3	6.9	5.1	5.3	1.4	1.3
1983-1985 (1984)	57	66	6.7	7.5	5.0	5.1	1.5	1.5
1982-1984 (1983)	65	75	7.8	8.9	5.0	5.2	1.8	1.7
1981-1983 (1982)	61	67	7.9	9.1	5.0	5.1	1.8	1.8
1980-1982 (1981)	47	57	6.8	7.7	5.1	5.2	1.5	1.5
1979-1981 (1980)	44	47	6.4	7.4	5.1	5.2	1.5	1.4
1972-1974 (72-74)	158	174	9.8	10.9	6.1	6.2	1.8	1.8

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

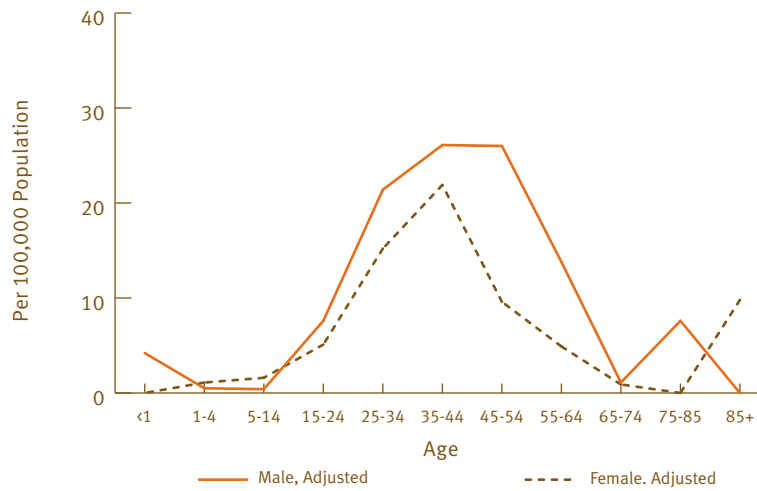
NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific death rate due to poisoning for AI/AN males (2002-2004) was higher than AI/AN females. The AI/AN male rate was higher for all age groups except those males ages 1 to 4, 5-14, and 85 years and older. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.18 Poisoning Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*



**Table 4.18 Poisoning Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	2.1	2.1	4.2	4.2	—*	—*
1-4 years	0.8	0.8	0.5	0.5	1.1	1.1
5-14 years	0.8	1.0	0.4	0.4	1.2	1.6
15-24 years	5.5	6.4	6.8	7.6	4.1	5.1
25-34 years	14.8	18.4	19.0	21.4	10.5	15.2
35-44 years	20.9	23.9	23.8	26.1	18.1	21.9
45-54 years	16.1	17.4	23.9	26.0	9.0	9.6
55-64 years	8.8	9.1	13.2	13.8	4.9	4.9
65-74 years	1.0	1.0	1.1	1.1	0.9	0.9
75-84 years	3.2	3.2	7.6	7.6	—*	—*
85 years +	6.7	6.7	—*	—*	9.8	9.8

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	0.8	0.9	0.8	0.8	0.9	0.5
1-4 years	0.4	0.4	0.4	0.3	0.3	0.3
5-14 years	0.2	0.2	0.2	0.2	0.2	0.2
15-24 years	6.6	9.6	3.4	7.8	11.4	4.0
25-34 years	12.6	17.7	7.4	13.8	19.6	8.2
35-44 years	20.8	27.2	14.3	22.0	28.9	15.4
45-54 years	19.7	25.4	14.3	20.1	25.5	15.0
55-64 years	8.4	10.1	6.8	8.5	9.8	7.3
65-74 years	4.0	4.6	3.4	3.9	4.2	3.6
75-84 years	3.9	4.7	3.4	4.2	4.9	3.7
85 years +	5.4	7.5	4.5	5.8	7.4	4.7

—\* Represents zero.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

The AI/AN age-adjusted unintentional injury death rate (156.4) was 65 percent greater for years 1979-1981 than the 2002-2004 rate (94.8). The 2002-2004 rate is 2.5 times the U.S. all-races rate (37.5) for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.19** Age-Adjusted Unintentional Injury Death Rates

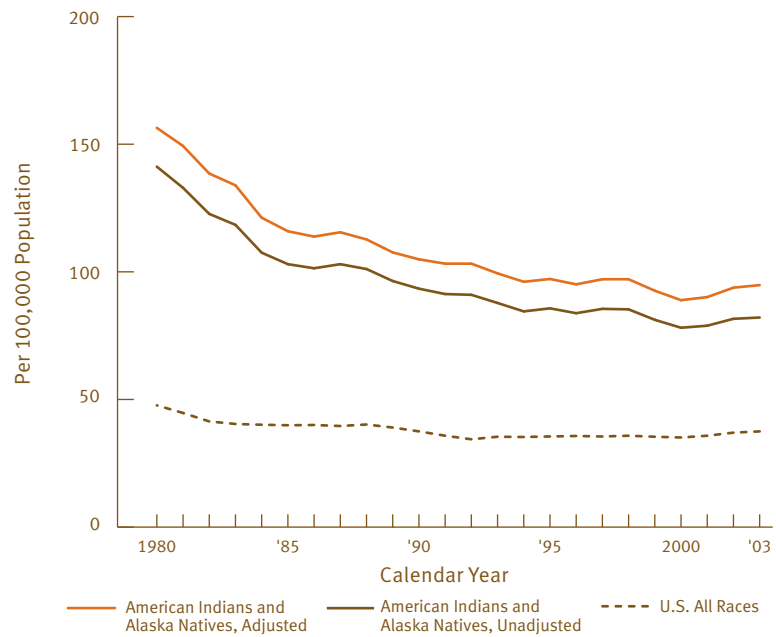


Table 4.19 Unintentional Injury Deaths and Death Rates

American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE						U.S. ALL RACES		U.S. WHITE	
	Total Deaths		All Unintentional Injuries		Motor Vehicle		Rate		Rate	
	Number		Rate		Rate		All Unintentional Injuries	Motor Vehicle	All Unintentional Injuries	Motor Vehicle
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2003-2005 (2004)	1,223	1,440								
2002-2004 (2003)	1,287	1,515	82.1	94.8	42.4	51.0	37.5	15.4	38.3	15.7
2001-2003 (2002)	1,242	1,468	81.6	93.8	42.2	50.7	37.0	15.7	37.7	16.1
2000-2002 (2001)	1,097	1,280	78.9	90.1	41.9	49.9	35.8	15.4	36.1	15.7
1999-2001 (2000)	1,101	1,274	78.1	88.9	40.5	48.1	35.1	15.4	35.2	15.6
1998-2000 (1999)	1,091	1,287	81.2	92.6	40.3	47.5	35.4	15.2	35.3	15.4
1997-1999 (1998)	1,087	1,272	85.3	97.1	38.4	45.1	35.8	15.8	35.6	15.8
1996-1998 (1997)	1,103	1,277	85.5	97.1	37.2	43.2	35.5	15.9	35.0	16.0
1995-1997 (1996)	1,055	1,212	83.8	95.1	37.0	43.0	35.7	16.2	35.3	16.3
1994-1996 (1995)	1,016	1,180	85.7	97.2	37.8	44.0	35.5	16.3	34.9	16.3
1993-1995 (1994)	1,022	1,173	84.5	96.1	36.9	42.9	35.3	16.1	34.5	16.2
1992-1994 (1993)	1,007	1,168	87.8	99.4	37.9	43.8	35.4	16.0	34.6	16.1
1991-1993 (1992)	977	1,126	91.0	103.2	39.7	46.2	34.4	15.8	33.6	15.9
1990-1992 (1991)	988	1,154	91.3	103.2	39.9	46.3	35.8	17.0	35.0	17.1
1989-1991 (1990)	970	1,101	93.4	104.9	40.4	46.5	37.5	18.4	36.7	18.5
1988-1990 (1989)	969	1,097	96.4	107.6	41.2	47.1	39.0	18.8	37.9	19.0
1987-1989 (1988)	1,012	1,148	101.1	112.7	43.3	49.5	40.2	19.5	39.1	19.7
1986-1988 (1987)	1,000	1,135	103.0	115.5	45.3	52.0	39.6	19.2	38.7	19.5
1985-1987 (1986)	983	1,120	101.4	113.8	44.8	51.5	40.0	19.1	39.1	19.3
1984-1986 (1985)	913	1,034	103.0	115.9	44.5	51.2	39.9	18.6	39.0	18.8
1983-1985 (1984)	921	1,049	107.5	121.2	45.2	52.5	40.1	18.8	39.4	19.2
1982-1984 (1983)	907	1,038	118.4	133.9	48.9	56.7	40.4	18.2	39.5	18.5
1981-1983 (1982)	999	1,136	122.7	138.5	52.7	60.9	41.4	18.9	40.7	19.2
1980-1982 (1981)	975	1,101	132.9	149.3	58.9	67.4	44.7	21.3	44.0	21.8
1979-1981 (1980)	1,058	1,195	141.2	156.4	63.4	71.5	47.7	22.3	46.5	22.6
1972-1974 (72-74)	3,001	3,292	204.1	223.2	90.6	100.4	59.5	26.7	57.5	26.2
1954-1956 (1955)	714		184.0		97.6		54.3	24.6	52.2	24.3

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

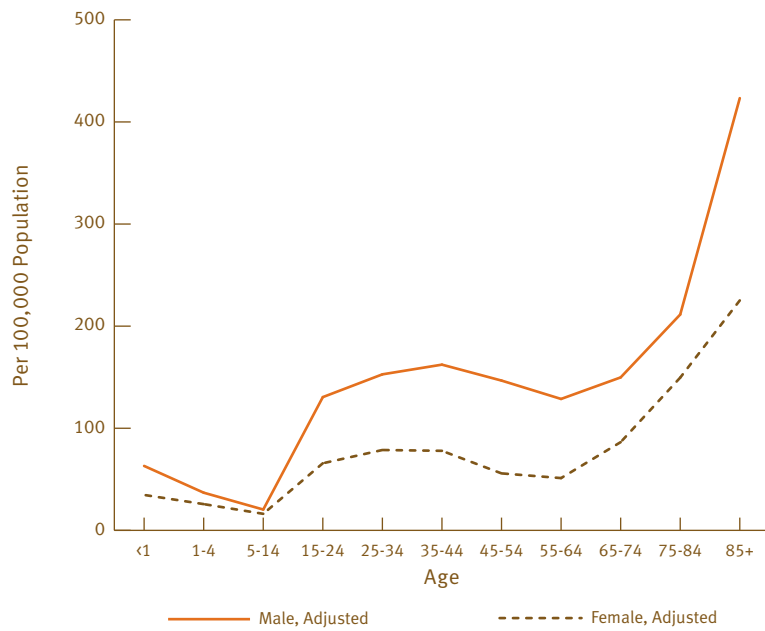
NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific death rate for unintentional injuries for AI/AN males (2002-2004) was higher for all age groups in comparison with AI/AN females. The AI/AN male rate was 2.6 times the AI/AN female rate for age group 45-54 years. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.20 Unintentional Injury Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*



**Table 4.20 Unintentional Injury Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	51.3 <sup>2</sup>	49.1 <sup>2</sup>	63.1 <sup>2</sup>	63.1 <sup>2</sup>	39.0 <sup>2</sup>	34.7 <sup>2</sup>
1-4 years	24.4	31.4	28.4	36.9	20.2	25.7
5-14 years	15.9	18.3	18.5	20.4	13.3	16.2
15-24 years	78.2	98.7	109.2	130.5	46.1	65.7
25-34 years	88.7	115.9	123.4	152.8	53.8	78.7
35-44 years	102.5	119.0	143.8	162.3	63.2	77.9
45-54 years	90.3	99.2	134.0	146.7	50.3	55.8
55-64 years	81.3	87.9	120.3	128.7	46.4	51.2
65-74 years	108.0	115.2	144.2	149.8	77.9	86.4
75-84 years	162.5	175.2	193.5	211.4	140.6	149.6
85 years +	287.9	287.9	423.3	423.3	225.2	225.2

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	23.6	26.4	20.7	20.0	22.5	17.4
1-4 years	10.9	13.0	8.7	10.6	12.8	8.3
5-14 years	6.4	7.9	4.8	6.1	7.6	4.7
15-24 years	37.1	53.3	19.9	40.1	57.4	21.7
25-34 years	31.5	47.1	15.3	33.0	49.3	15.9
35-44 years	37.8	54.2	21.4	39.0	55.6	22.1
45-54 years	38.8	55.9	22.4	38.5	54.9	22.3
55-64 years	32.9	47.1	19.7	32.3	45.8	19.5
65-74 years	44.1	58.9	31.6	43.8	58.3	31.4
75-84 years	101.9	132.9	81.1	104.0	134.4	83.6
85 years +	278.9	352.5	246.4	291.1	365.7	258.0

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>The adjusted rate for age less than one year is lower than the unadjusted rate because the linked birth/infant death file (used to obtain the adjusted counts of infant deaths) had fewer deaths for this cause than did the unadjusted mortality file (2002-2004 data).

Source: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted suicide death rate (18.5) was 7.6 percent greater for 1979-1981 as compared to 17.1 in 2001-2003. In 2002-2004 the suicide rate increased to 17.9 from 17.1 for 2001-2003. The 2002-2004 rate (17.9) is 1.7 times greater than the U.S. all-races rate (10.8) for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.21 Age-Adjusted Suicide Death Rates**

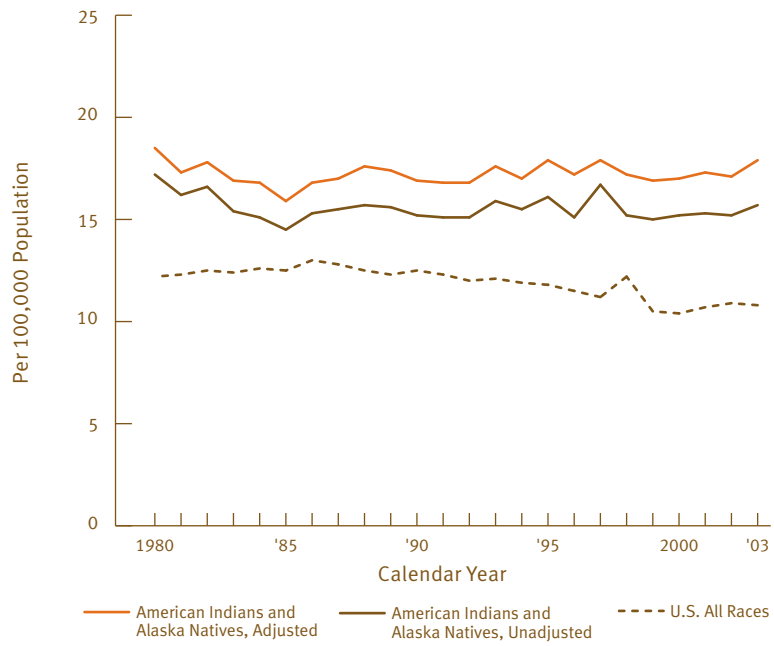




Table 4.21 Suicide Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES Rate	U.S. WHITE Rate	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2003-2005 (2004)	314	368						
2002-2004 (2003)	255	289	15.7	17.9	10.8	11.8	1.7	1.5
2001-2003 (2002)	261	303	15.2	17.1	10.9	12.0	1.6	1.4
2000-2002 (2001)	258	286	15.3	17.3	10.7	11.7	1.6	1.5
1999-2001 (2000)	238	273	15.2	17.0	10.4	11.3	1.6	1.5
1998-2000 (1999)	235	265	15.0	16.9	10.5	11.3	1.6	1.5
1997-1999 (1998)	252	283	15.2	17.2	12.2	11.1	1.4	1.5
1996-1998 (1997)	234	273	16.7	17.9	11.2	12.1	1.6	1.5
1995-1997 (1996)	225	262	15.1	17.2	11.5	12.4	1.5	1.4
1994-1996 (1995)	205	228	16.1	17.9	11.8	12.7	1.5	1.4
1993-1995 (1994)	242	263	15.5	17.0	11.9	12.7	1.4	1.3
1992-1994 (1993)	204	226	15.9	17.6	12.1	12.9	1.5	1.4
1991-1993 (1992)	193	219	15.1	16.8	12.0	12.8	1.4	1.3
1990-1992 (1991)	184	200	15.1	16.8	12.3	13.2	1.4	1.3
1989-1991 (1990)	195	218	15.2	16.9	12.5	13.3	1.4	1.3
1988-1990 (1989)	192	217	15.6	17.4	12.3	13.1	1.4	1.3
1987-1989 (1988)	185	206	15.7	17.6	12.5	13.3	1.4	1.3
1986-1988 (1987)	187	206	15.5	17.0	12.8	13.7	1.3	1.2
1985-1987 (1986)	158	168	15.3	16.8	13.0	13.9	1.3	1.2
1984-1986 (1985)	172	193	14.5	15.9	12.5	13.4	1.3	1.2
1983-1985 (1984)	148	165	15.1	16.8	12.6	13.5	1.3	1.2
1982-1984 (1983)	161	177	15.4	16.9	12.4	13.2	1.4	1.3
1981-1983 (1982)	154	164	16.6	17.8	12.5	13.3	1.4	1.3
1980-1982 (1981)	157	166	16.2	17.3	12.3	13.1	1.4	1.3
1979-1981 (1980)	146	156	17.2	18.5	12.2	13.0	1.5	1.4
1972-1974 (72-74)	351	374	27.6	29.4	13.2	13.9	2.2	2.1
1954-1956 (1955)	39		11.9		9.9	10.4		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific suicide death rate (2002-2004) for AI/AN males was higher for all age groups in comparison with AI/AN females. The AI/AN male rate peaked at (61.0 deaths per 100,000 population) for age group 25 to 34 years which is 4.4 times that of the AI/AN female rate (13.9). The greatest disparity between males and females was for age group 35 to 44 years whereas males were 4.9 times more likely to die from suicide than females. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.22 Suicide Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*

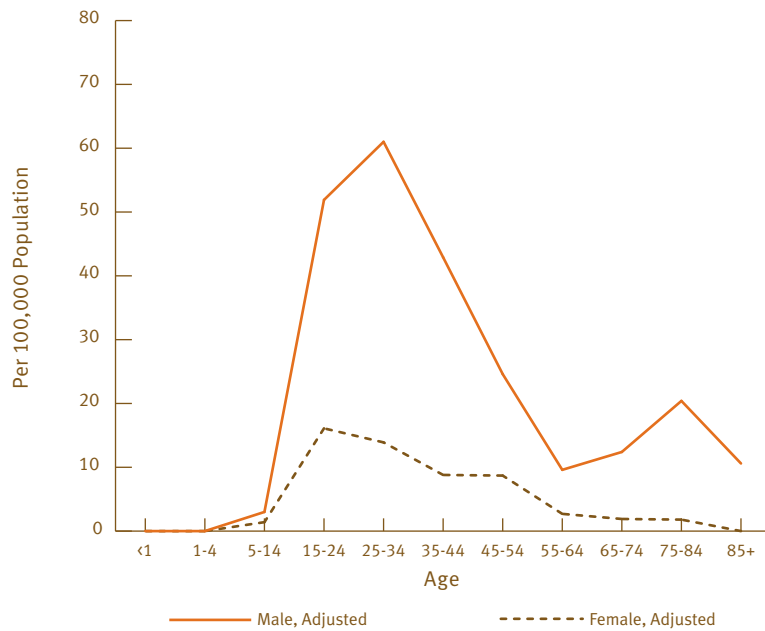


Table 4.22 Suicide Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	2.0	2.2	2.7	3.0	1.4	1.4
15-24 years	29.2	34.2	44.8	51.9	13.4	16.1
25-34 years	30.1	37.5	49.7	61.0	10.3	13.9
35-44 years	22.8	25.4	38.4	42.9	8.0	8.8
45-54 years	15.2	16.2	23.2	24.6	8.0	8.7
55-64 years	6.0	7.7	9.6	9.6	2.7	2.7
65-74 years	6.7	6.7	12.4	12.4	1.9	1.9
75-84 years	9.5	9.5	20.4	20.4	1.8	1.8
85 years +	3.3	3.3	10.6	10.6	—*	—*

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	0.6	0.9	0.3	0.6	0.9	0.3
15-24 years	9.7	16.0	3.0	10.2	17.0	3.1
25-34 years	12.7	20.6	4.6	13.7	21.8	5.1
35-44 years	14.9	13.2	6.6	16.6	25.7	7.5
45-54 years	15.9	24.4	7.7	17.9	27.3	8.7
55-64 years	13.8	22.3	5.9	15.2	24.3	6.5
65-74 years	12.7	23.4	3.8	13.8	25.2	4.1
75-84 years	16.4	35.1	4.0	17.6	37.5	4.2
85 years +	16.9	47.8	3.3	18.1	51.4	3.3

—\*Represents zero.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

Source: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted homicide death rate (23.5) was 99.2 percent greater for 1979-1981 than the 11.8 rate for 2002-2004. The 2002-2004 rate of 11.8 is two times higher than the U.S. all-races rate of 6.0 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN races on state death certificates.

**Chart 4.23 Age-Adjusted Homicide Death Rates**

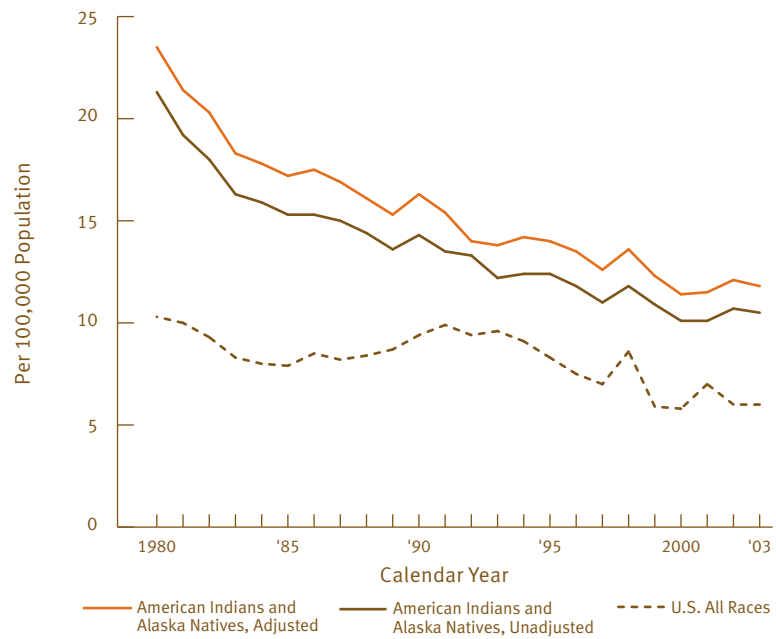


Table 4.23 Homicide Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES Rate	U.S. WHITE Rate	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2003-2005 (2004)	165	185						
2002-2004 (2003)	194	218	10.5	11.8	6.0	3.6	2.0	3.3
2001-2003 (2002)	202	236	10.7	12.1	6.0	3.7	2.0	3.3
2000-2002 (2001)	160	186	10.1	11.5	7.0	4.8	1.6	2.4
1999-2001 (2000)	143	162	10.1	11.4	5.8	3.6	2.0	3.2
1998-2000 (1999)	181	206	10.9	12.3	5.9	3.7	2.1	3.3
1997-1999 (1998)	172	199	11.8	13.6	8.6	6.4	1.6	2.1
1996-1998 (1997)	181	217	11.0	12.6	7.0	4.3	1.8	2.9
1995-1997 (1996)	161	178	11.8	13.5	7.5	4.5	1.8	3.0
1994-1996 (1995)	198	231	12.4	14.0	8.3	5.0	1.7	2.8
1993-1995 (1994)	176	201	12.4	14.2	9.1	5.3	1.6	2.7
1992-1994 (1993)	168	190	12.2	13.8	9.6	5.5	1.4	2.5
1991-1993 (1992)	168	185	13.3	15.0	9.4	5.6	1.6	2.7
1990-1992 (1991)	199	229	13.5	15.4	9.9	5.8	1.6	2.7
1989-1991 (1990)	153	180	14.3	16.3	9.4	5.5	1.7	3.0
1988-1990 (1989)	177	205	13.6	15.3	8.7	5.2	1.8	2.9
1987-1989 (1988)	160	178	14.4	16.1	8.4	5.1	1.9	3.2
1986-1988 (1987)	162	185	15.0	16.9	8.2	5.1	2.1	3.3
1985-1987 (1986)	184	213	15.3	17.5	8.5	5.4	2.1	3.2
1984-1986 (1985)	151	174	15.3	17.2	7.9	5.3	2.2	3.2
1983-1985 (1984)	146	156	15.9	17.8	8.0	5.3	2.2	3.4
1982-1984 (1983)	172	198	16.3	18.3	8.3	5.4	2.2	3.4
1981-1983 (1982)	146	166	18.0	20.3	9.3	6.1	2.2	3.3
1980-1982 (1981)	166	178	19.2	21.4	10.0	6.5	2.1	3.3
1979-1981 (1980)	174	198	21.3	23.5	10.3	6.7	2.3	3.5
1972-1974 (72-74)	368	398	24.7	26.6	10.3	5.7	2.6	4.7
1954-1956 (1955)	77		23.8		4.8	2.4		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific homicide death rate (2002-2004) for AI/AN males was generally higher for most age groups. Males in age group 65 to 74 years were 5.9 times more likely to die from homicide than females in the same age group. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.24 Homicide Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*

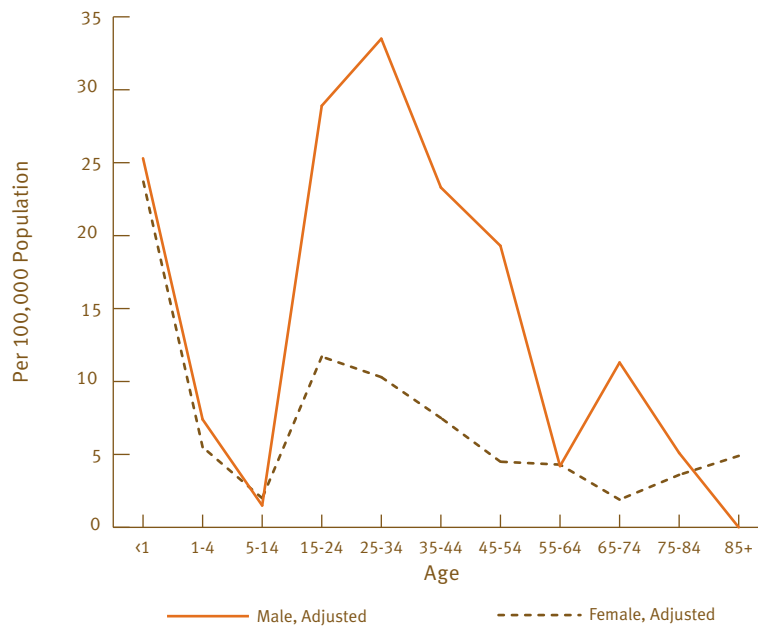


Table 4.24 Homicide Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	25.6 <sup>2</sup>	24.6 <sup>2</sup>	29.5 <sup>2</sup>	25.3 <sup>2</sup>	21.7	23.8
1-4 years	5.6	6.4	5.8	7.4	5.5	5.5
5-14 years	1.4	1.7	1.3	1.5	1.6	2.0
15-24 years	17.3	21.0	25.3	28.9	7.8	11.7
25-34 years	18.8	23.0	28.0	33.5	8.0	10.3
35-44 years	15.2	16.0	22.4	23.3	6.7	7.5
45-54 years	11.7	12.1	18.9	19.3	4.2	4.5
55-64 years	4.3	4.3	4.2	4.2	4.3	4.3
65-74 years	6.1	6.1	11.3	11.3	1.9	1.9
75-84 years	4.2	4.2	5.1	5.1	3.6	3.6
85 years +	3.3	3.3	—*	—*	4.9	4.9

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	8.5	10.0	6.9	6.9	8.1	5.7
1-4 years	2.3	2.5	2.2	1.6	1.5	1.8
5-14 years	0.8	1.0	0.5	0.5	0.6	0.3
15-24 years	13.0	21.7	3.7	6.7	10.6	2.5
25-34 years	11.2	18.3	3.9	6.0	9.1	2.8
35-44 years	6.9	10.2	3.6	4.5	6.2	2.8
45-54 years	4.9	7.3	2.5	3.5	4.9	2.1
55-64 years	2.7	4.1	1.5	2.2	3.0	1.3
65-74 years	2.3	3.3	1.5	1.9	2.5	1.3
75-84 years	2.4	3.2	1.9	2.1	2.7	1.7
85 years +	2.2	3.2	1.7	2.0	3.0	1.6

—\*Represents zero.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>The adjusted rate for age less than one year is lower than the unadjusted rate because the linked birth/infant death file (used to obtain the adjusted counts of infant deaths) had fewer deaths for this cause than did the unadjusted mortality file (2002-2004 data).

Source: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted firearm injury death rate decreased from 26.2 for the three year period 1979-1981 to 13.2 in 2002-2004. The rate (13.2) for 2002-2004 is 1.3 times greater than the U.S. all-races rate of 10.3 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.25** Age-Adjusted Firearm Injury Death Rates

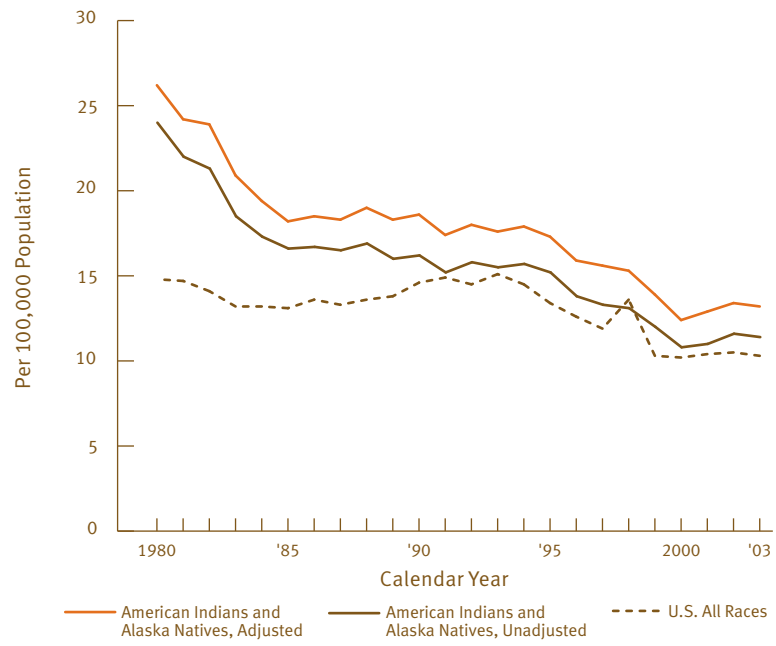




Table 4.25 Firearm Injury<sup>1</sup> Deaths and Death Rates

American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1979-2003  
(Age-Adjusted Rate per 100,000 Population)

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>2</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>2</sup>	Unadjusted	Adjusted <sup>2</sup>	Rate	Rate		
2003-2005 (2004)	192	231						
2002-2004 (2003)	207	235	11.4	13.2	10.3	9.0	1.3	1.5
2001-2003 (2002)	221	266	11.6	13.4	10.5	9.2	1.3	1.5
2000-2002 (2001)	188	222	11.0	12.9	10.4	9.2	1.2	1.4
1999-2001 (2000)	167	199	10.8	12.4	10.2	9.0	1.2	1.4
1998-2000 (1999)	192	220	12.0	13.9	10.3	9.1	1.3	1.5
1997-1999 (1998)	213	251	13.1	15.3	13.6	11.1	1.1	1.4
1996-1998 (1997)	202	244	13.3	15.6	11.9	12.3	1.3	1.3
1995-1997 (1996)	188	214	13.8	15.9	12.6	10.8	1.3	1.5
1994-1996 (1995)	227	261	15.2	17.3	13.4	11.4	1.3	1.5
1993-1995 (1994)	230	264	15.7	17.9	14.5	12.0	1.2	1.5
1992-1994 (1993)	204	232	15.5	17.6	15.1	12.3	1.2	1.4
1991-1993 (1992)	181	204	15.8	18.0	14.5	12.1	1.2	1.5
1990-1992 (1991)	221	253	15.2	17.4	14.9	12.3	1.2	1.4
1989-1991 (1990)	172	200	16.2	18.6	14.6	12.4	1.3	1.5
1988-1990 (1989)	215	252	16.0	18.3	13.8	11.8	1.3	1.6
1987-1989 (1988)	205	227	16.9	19.0	13.6	11.8	1.4	1.6
1986-1988 (1987)	182	203	16.5	18.3	13.3	11.9	1.4	1.5
1985-1987 (1986)	186	206	16.7	18.5	13.6	12.2	1.4	1.5
1984-1986 (1985)	186	208	16.6	18.2	13.1	12.0	1.4	1.5
1983-1985 (1984)	169	183	17.3	19.4	13.2	12.0	1.5	1.6
1982-1984 (1983)	185	216	18.5	20.9	13.2	11.9	1.6	1.8
1981-1983 (1982)	210	232	21.3	23.9	14.1	12.6	1.7	1.9
1980-1982 (1981)	210	226	22.0	24.2	14.7	12.7	1.6	1.9
1979-1981 (1980)	195	211	24.0	26.2	14.8	12.7	1.5	2.1
(1979)	229	250						

<sup>1</sup>Includes deaths with ICD-10 codes: U01.4, terrorism involving firearms (homicide); W32-W34, accidental discharge of firearms; X72-X74, intentional self-harm (suicide) by discharge of firearms; X93-X95, assault (homicide) by discharge of firearms; Y22-Y24, discharge of firearms, undetermined intent; and Y35.0, legal intervention involving firearm discharge.

<sup>2</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Firearm death data are introduced in 1978 for the IHS service area. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. All-Races and U.S. White columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Hoyert DL, Heron MP, Murphy SL, Kung H. Deaths: Final Data for 2003. National vital statistics reports; vol 54 no 13. Hyattsville, MD: National Center for Health Statistics, 2006. Rates for U.S. All-Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific firearm injury death rate (2002-2004) for AI/AN males are higher for all ages except under 5 years in comparison with AI/AN females. The AI/AN male rate peaked at 47.0 deaths per 100,000 population for the 25 to 34 year age group. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.26 Firearm Injury Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*

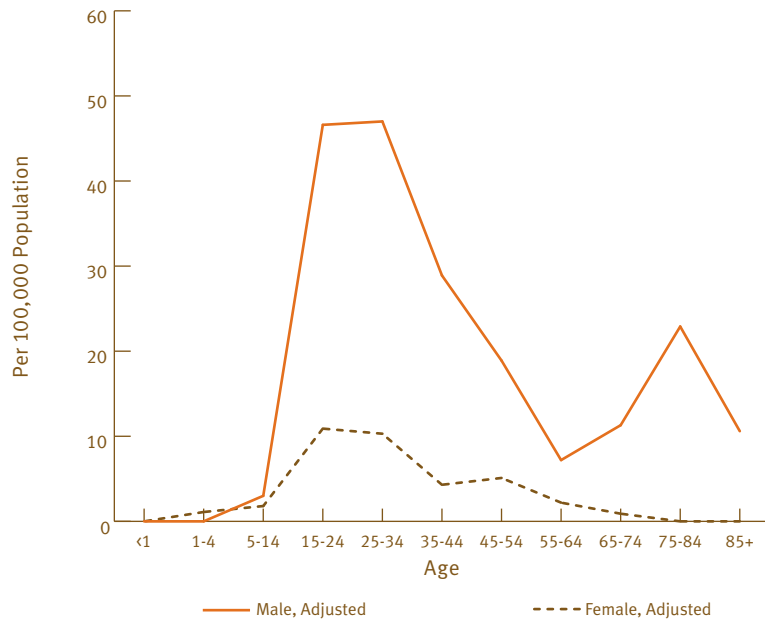


Table 4.26 Firearm Injury<sup>1</sup> Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>2</sup>	Unadjusted	Adjusted <sup>2</sup>	Unadjusted	Adjusted <sup>2</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	0.5	0.5	—*	—*	1.1	1.1
5-14 years	2.0	2.3	2.7	3.0	1.6	1.8
15-24 years	23.4	28.6	39.4	46.6	7.6	10.9
25-34 years	21.5	27.7	37.4	47.0	7.5	10.3
35-44 years	14.6	15.9	26.9	28.9	3.7	4.3
45-54 years	11.2	11.7	18.6	18.9	4.5	5.1
55-64 years	4.3	4.3	7.2	7.2	2.2	2.2
65-74 years	5.6	5.6	11.3	11.3	0.9	0.9
75-84 years	9.5	9.5	22.9	22.9	—*	—*
85 years +	3.3	3.3	10.6	10.6	—*	—*

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	0.2	0.3	0.1	0.1	0.1	0.1
1-4 years	0.3	0.3	0.3	0.2	0.2	0.2
5-14 years	0.8	1.2	0.3	0.6	1.0	0.2
15-24 years	16.6	29.2	3.3	11.1	19.2	2.5
25-34 years	15.6	27.2	3.6	11.2	18.9	3.1
35-44 years	11.6	19.2	4.0	10.9	17.6	4.0
45-54 years	11.2	18.8	3.8	11.6	19.2	4.0
55-64 years	10.1	17.8	2.9	10.8	18.9	3.2
65-74 years	10.4	20.3	2.2	11.3	21.9	2.3
75-84 years	13.5	30.2	2.2	14.4	32.3	2.3
85 years +	12.5	37.8	1.3	13.5	41.0	1.3

—\* Represents zero.

<sup>1</sup>Includes deaths with ICD-10 codes: U01.4, terrorism involving firearms (homicide); W32-W34, accidental discharge of firearms; X72-X74, intentional self-harm (suicide) by discharge of firearms; X93-X95, assault (homicide) by discharge of firearms; Y22-Y24, discharge of firearms, undetermined intent; and Y35.0, legal intervention involving firearm discharge.

<sup>2</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

SOURCE: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The 2002-2004 AI/AN age-adjusted death rate due to other injuries (undetermined injury and war injury) has decreased 70 percent since 1972-1974 from 9.2 to 2.8. The 2002-2004 rate (2.8 deaths per 100,000 population) is 1.6 times the U.S. all-races rate of 1.7 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.27 Age-Adjusted Other Injury Death Rates**

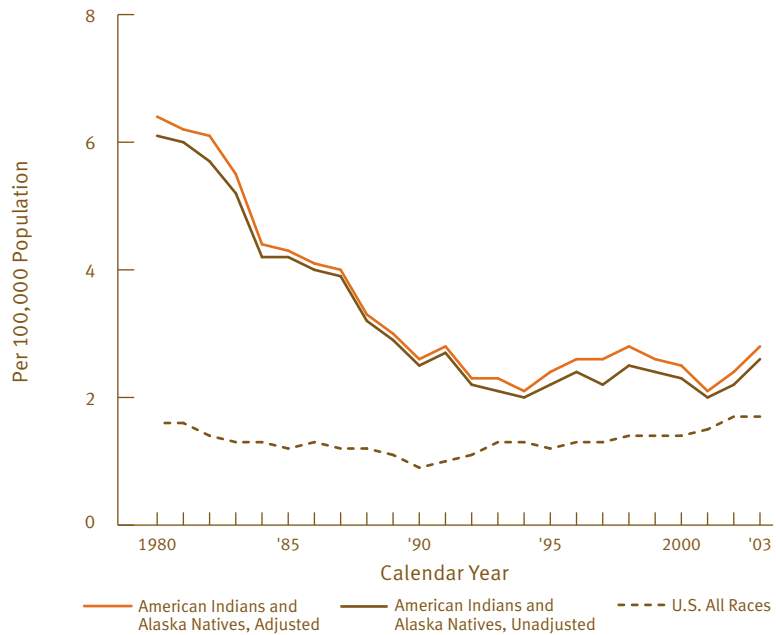


Table 4.27 Other Injury<sup>1,2</sup> Deaths and Death Rates

American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1973-2003  
(Age-Adjusted Rate per 100,000 Population)

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>3</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>4</sup>	Unadjusted	Adjusted <sup>4</sup>				
2002-2004 (2003)	46	52	2.6	2.8	1.7	1.8	1.6	1.6
2001-2003 (2002)	30	30	2.2	2.4	1.7	1.7	1.4	1.4
2000-2002 (2001)	28	31	2.0	2.1	1.5	1.5	1.4	1.4
1999-2001 (2000)	34	37	2.3	2.5	1.4	1.3	1.8	1.9
1998-2000 (1999)	41	46	2.4	2.6	1.4	1.4	1.9	1.9
1997-1999 (1998)	30	36	2.5	2.8	1.4	1.3	2.0	2.2
1996-1998 (1997)	31	34	2.2	2.6	1.3	1.3	2.0	2.0
1995-1997 (1996)	29	34	2.4	2.6	1.3	1.2	2.0	2.2
1994-1996 (1995)	30	31	2.2	2.4	1.2	1.1	2.0	2.2
1993-1995 (1994)	24	28	2.0	2.1	1.3	1.2	1.6	1.8
1992-1994 (1993)	24	25	2.1	2.3	1.3	1.2	1.8	1.9
1991-1993 (1992)	31	34	2.2	2.3	1.1	1.0	2.1	2.3
1990-1992 (1991)	26	27	2.7	2.8	1.0	0.9	2.8	3.1
1989-1991 (1990)	31	33	2.5	2.6	0.9	0.9	2.9	2.9
1988-1990 (1989)	28	29	2.9	3.0	1.1	0.9	2.7	3.3
1987-1989 (1988)	34	35	3.2	3.3	1.2	1.1	2.8	3.0
1986-1988 (1987)	41	42	3.9	4.0	1.2	1.0	3.3	4.0
1985-1987 (1986)	50	50	4.0	4.1	1.3	1.1	3.2	3.7
1984-1986 (1985)	39	39	4.2	4.3	1.2	1.1	3.6	3.9
1983-1985 (1984)	39	41	4.2	4.4	1.3	1.1	3.4	4.0
1982-1984 (1983)	40	42	5.2	5.5	1.3	1.2	4.2	4.6
1981-1983 (1982)	52	54	5.7	6.1	1.4	1.2	4.4	5.1
1980-1982 (1981)	46	49	6.0	6.2	1.6	1.4	3.9	4.4
1979-1981 (1980)	39	39	6.1	6.4	1.6	1.4	4.0	4.6
1972-1974 (72-74)	131 <sup>3</sup>	138 <sup>3</sup>	8.8	9.2	2.4	2.0	3.8	4.6

<sup>1</sup>Includes deaths with ICD-10 codes Y10-Y34, Y87.2, Y89.9 injury undetermined intent.

<sup>2</sup>Includes deaths with ICD-10 codes Y36, Y89.1; injury death resulting from operations of war and their sequelae.

<sup>3</sup>In 1973 there was one AI/AN injury death resulting from operations of war. For each of the other years shown above there were no AI/AN injury deaths due to this cause.

<sup>4</sup>Adjusted - specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Starting in 1972 data are first available and are shown above for the specific counties in the IHS service area. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

The age-specific death rate due to other injuries (2002-2004) for AI/AN males was higher or identical for all age groups except 75 to 84 years in comparison with AI/AN females (for 85 years and older, there were no other injury deaths). The highest age-specific and sex-specific rates occurred for males in age group under 1 year (12.6 deaths per 100,000 population). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.28 Other Injury Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*



**Table 4.28 Other Injury Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	7.5	11.7	8.4	12.6	6.5	10.8
1-4 years	0.5	0.5	0.5	0.5	0.5	0.5
5-14 years	0.2	0.2	0.6	0.6	0.2	0.2
15-24 years	1.1	1.1	2.8	2.8	0.4	0.4
25-34 years	2.8	3.2	4.9	5.8	3.0	3.3
35-44 years	3.3	3.6	5.0	5.3	2.4	2.7
45-54 years	3.4	3.7	3.9	3.9	2.9	3.5
55-64 years	3.4	3.4	4.8	4.8	2.7	2.7
65-74 years	2.0	2.0	3.4	3.4	0.9	0.9
75-84 years	2.1	2.1	—*	—*	3.6	3.6
85 years +	0.0	0.0	—*	—*	—*	—*

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	1.9	2.4	1.3	0.1	0.1	0.1
1-4 years	0.2	0.2	0.2	0.2	0.2	0.2
5-14 years	0.1	0.1	0.1	0.1	0.1	0.1
15-24 years	1.2	1.7	0.7	1.4	1.9	0.8
25-34 years	2.0	2.7	1.3	2.2	2.9	1.5
35-44 years	3.5	4.5	2.5	3.6	4.6	2.6
45-54 years	3.0	3.9	2.2	3.0	3.8	2.3
55-64 years	1.3	1.6	1.0	1.2	1.4	1.0
65-74 years	0.7	0.7	0.7	0.6	0.6	0.6
75-84 years	0.7	0.9	0.6	0.7	0.9	0.6
85 years +	1.1	1.4	0.9	1.2	1.5	1.0

—\* Represents zero.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

The age-adjusted alcohol-related death rate for AI/AN decreased from 77.5 (1979-1981) to 43.7 (2002-2004). The 2002-2004 rate of 43.7 is over six times the U.S. all races rate of 7.0 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.29 Age-Adjusted Alcohol-Related Death Rates**

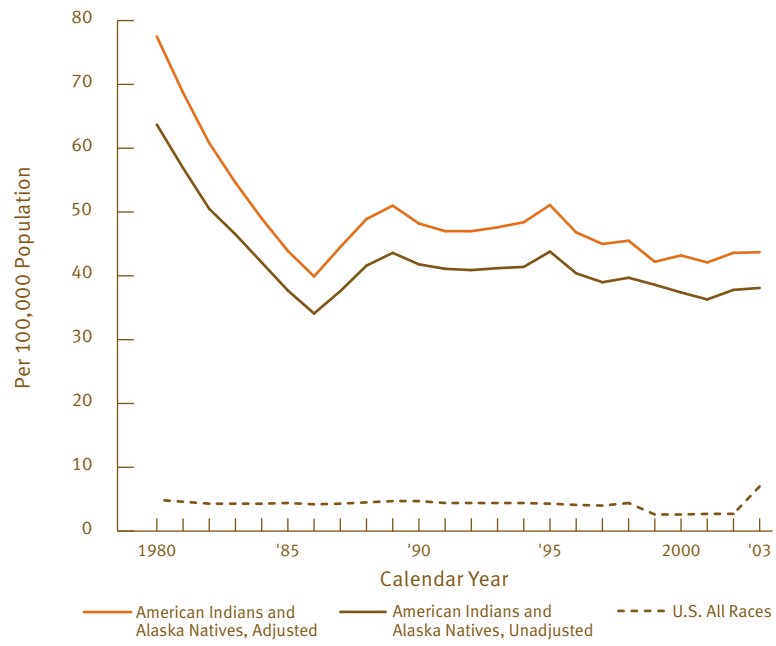




Table 4.29 Alcohol-Related Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1980-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>2</sup> TO:	
	Number		Rate		Rate	Rate	U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2002-2004 (2003)	557	630	38.1	43.7	7.0 <sup>2</sup>	7.0 <sup>2</sup>	6.2	6.2
2001-2003 (2002)	499	578	37.8	43.6	2.7	2.6	16.1	16.8
2000-2002 (2001)	483	573	36.3	42.1	2.7	2.5	15.6	16.8
1999-2001 (2000)	441	504	37.4	43.2	2.6	2.4	16.6	18.0
1998-2000 (1999)	497	570	38.6	42.2	2.6	2.4	16.2	17.6
1997-1999 (1998)	465	536	39.7	45.5	4.4	3.9	10.3	11.7
1996-1998 (1997)	435	500	39.0	45.0	4.0	3.6	11.3	12.5
1995-1997 (1996)	456	527	40.4	46.8	4.1	3.7	11.4	12.6
1994-1996 (1995)	460	543	43.8	51.1	4.3	3.8	11.9	13.4
1993-1995 (1994)	427	494	41.4	48.4	4.4	3.8	11.0	12.7
1992-1994 (1993)	395	458	41.2	47.6	4.4	3.8	10.8	12.5
1991-1993 (1992)	402	458	40.9	47.0	4.4	3.7	10.7	12.7
1990-1992 (1991)	367	417	41.1	47.0	4.4	3.7	10.7	12.7
1989-1991 (1990)	350	403	41.8	48.2	4.7	3.8	10.3	12.7
1988-1990 (1989)	376	436	43.6	51.0	4.7	3.7	10.9	13.8
1987-1989 (1988)	375	441	41.6	48.9	4.5	3.5	10.9	14.0
1986-1988 (1987)	264	310	37.6	44.5	4.3	3.3	10.3	13.5
1985-1987 (1986)	264	310	34.1	39.9	4.2	3.3	9.5	12.1
1984-1986 (1985)	274	315	37.7	43.9	4.4	3.4	10.0	12.9
1983-1985 (1984)	302	348	42.1	49.0	4.3	3.4	11.4	14.4
1982-1984 (1983)	295	345	46.5	54.6	4.3	3.4	12.7	16.1
1981-1983 (1982)	293	343	50.5	60.8	4.3	3.4	14.1	17.9
1980-1982 (1981)	344	424	56.9	68.7	4.6	3.5	14.9	19.6
1979-1981 (1980)	369	436	63.7	77.5	4.9	3.7	15.8	20.9
(1979)	377	454						

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>Alcohol-related ICD-10 codes were expanded in 2003 which accounts for the dramatic increase between 2002 and 2003.

NOTE: For all years 1979-1998 the causes of death (ICD-9 codes) that define alcohol-related deaths were expanded to include alcoholic polyneuropathy and the entire code group for unintentional poisoning by alcohol, as defined by the National Center for Health Statistics, Centers for Disease Control and Prevention. Years 1999-2004 used ICD-10 codes—these codes were expanded in 2003. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all races and the U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

Drinking has taken a great toll on AI/AN males compared to AI/AN females as evidenced by alcohol-related death rates. The age-specific alcohol-related death rate (2002-2004) for AI/AN males was higher for all age groups in comparison with AI/AN females. However, the AI/AN female rate is much higher than the rate of females in the U.S. all-races and white populations. The U.S. female rate never reached 9.0 for any age group in 2003, whereas the AI/AN female rate for years 2002-2004 ranged from 15.2 to 65.4 for age groups 25 through 74 years. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.30 Alcohol-Related Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*

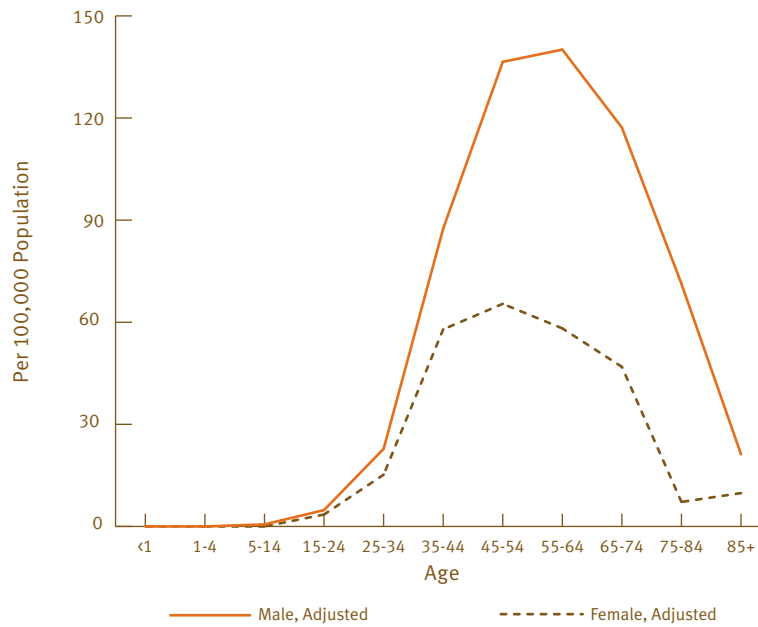


Table 4.30 Alcohol-Related Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	0.3	0.3	0.6	0.6	—*	—*
15-24 years	3.7	4.0	4.6	4.8	3.1	3.5
25-34 years	16.7	18.8	21.4	22.8	12.5	15.2
35-44 years	61.6	71.9	75.4	87.5	49.1	57.9
45-54 years	84.6	99.2	117.6	136.5	54.8	65.4
55-64 years	84.2	96.7	123.9	140.1	49.1	58.2
65-74 years	71.7	78.9	107.0	117.2	42.2	46.9
75-84 years	32.7	33.8	68.8	71.3	7.2	7.2
85 years +	13.4	13.4	21.2	21.2	9.8	9.8

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	0.0	0.0	0.0	0.0	0.0	0.0
15-24 years	0.3	0.5	0.1	0.3	0.5	0.1
25-34 years	1.5	2.3	0.6	1.5	2.4	0.7
35-44 years	8.1	11.4	4.7	8.2	11.8	4.7
45-54 years	17.3	27.0	7.9	17.4	26.8	8.0
55-64 years	18.5	29.8	8.1	18.2	29.0	8.0
65-74 years	15.1	25.4	6.5	15.2	25.4	6.5
75-84 years	9.2	16.8	4.1	9.3	16.8	4.3
85 years +	4.1	7.8	2.5	4.2	7.8	2.5

\*Represents zero.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

Source: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AIAN age-adjusted chronic liver disease and cirrhosis death rate (72.4) for years 1979-1981 has decreased to 39.1 for years 2002-2004. The 2002-2004 rate of 39.1 is 4.2 times higher than the U.S. all-races population rate of 9.3 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.31 Age-Adjusted Chronic Liver Disease and Cirrhosis Death Rates**

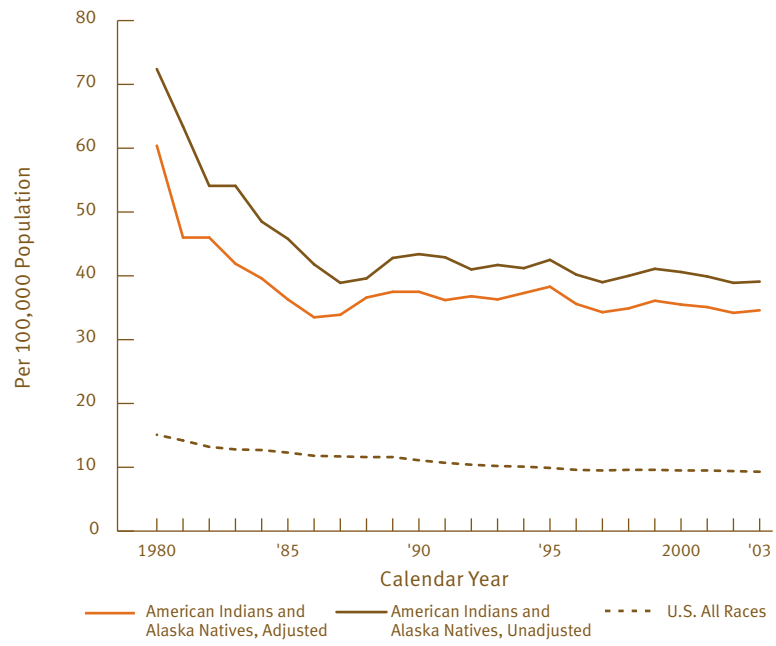


Table 4.31 Chronic Liver Disease and Cirrhosis Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2003-2005 (2004)	470	534						
2002-2004 (2003)	454	511	34.6	39.1	9.3	9.6	4.2	4.1
2001-2003 (2002)	447	511	34.2	38.9	9.4	9.6	4.1	4.1
2000-2002 (2001)	418	487	35.1	39.9	9.5	9.6	4.2	4.2
1999-2001 (2000)	428	484	35.5	40.6	9.5	9.6	4.3	4.2
1998-2000 (1999)	423	491	36.1	41.1	9.6	9.6	4.3	4.3
1997-1999 (1998)	375	433	34.9	40.0	9.6	9.3	4.2	4.3
1996-1998 (1997)	339	390	34.3	39.0	9.5	9.5	4.1	4.1
1995-1997 (1996)	339	386	35.6	40.2	9.6	9.5	4.2	4.2
1994-1996 (1995)	372	420	38.3	42.5	9.9	9.6	4.3	4.4
1993-1995 (1994)	329	377	37.3	41.2	10.1	9.8	4.1	4.2
1992-1994 (1993)	312	358	36.3	41.7	10.2	9.9	4.1	4.2
1991-1993 (1992)	299	336	36.8	41.0	10.4	10.0	3.9	4.1
1990-1992 (1991)	288	326	36.2	42.9	10.7	10.2	4.0	4.2
1989-1991 (1990)	267	307	37.5	43.4	11.1	10.5	3.9	4.1
1988-1990 (1989)	299	344	37.5	42.8	11.6	10.9	3.7	3.9
1987-1989 (1988)	267	314	36.6	39.6	11.6	10.9	3.4	3.6
1986-1988 (1987)	224	264	33.9	38.9	11.7	11.0	3.3	3.5
1985-1987 (1986)	224	256	33.5	41.8	11.8	11.1	3.5	3.8
1984-1986 (1985)	237	276	36.3	45.8	12.3	11.4	3.7	4.0
1983-1985 (1984)	243	279	39.6	48.5	12.7	11.9	3.8	4.1
1982-1984 (1983)	236	273	41.9	54.1	12.8	12.1	4.2	4.5
1981-1983 (1982)	230	267	46.0	54.1	13.2	12.5	4.1	4.3
1980-1982 (1981)	284	341	46.0	63.4	14.2	13.2	4.5	4.8
1979-1981 (1980)	324	380	60.4	72.4	15.1	13.9	4.8	5.2
1972-1974 (72-74)	717	810	69.6	79.0	18.4	16.9	4.3	4.7
1954-1956 (1955)			26.9		9.4	9.4		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

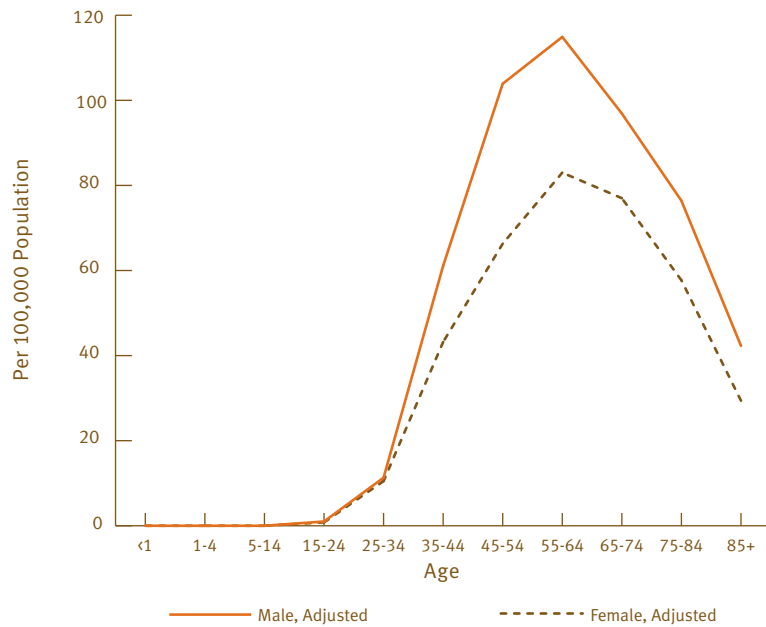
NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

Other than for age groups under 15 years, the age-specific chronic liver disease and cirrhosis death rate (2002-2004) for AI/AN males was higher for all age groups in comparison with AI/AN females. The AI/AN male rate exceeded 103.0 deaths per 100,000 population for age groups 45 to 64 years. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.32** Chronic Liver Disease and Cirrhosis Death Rates by Age and Sex

*American Indians and Alaska Natives (2002-2004)*



**Table 4.32** Chronic Liver Disease and Cirrhosis Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and  
U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	—*	—*	—*	—*	—*	—*
15-24 years	0.7	0.9	0.8	1.0	0.6	0.8
25-34 years	9.7	10.9	10.4	11.3	8.9	10.5
35-44 years	45.4	51.9	53.8	61.1	37.3	43.2
45-54 years	72.4	84.3	90.5	103.9	55.8	66.3
55-64 years	87.9	98.1	105.2	114.9	72.3	83.0
65-74 years	78.9	86.0	89.0	96.9	70.4	77.0
75-84 years	60.2	65.4	73.8	76.4	50.5	57.7
85 years +	33.5	33.5	42.3	42.3	29.4	29.4

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	0.0	0.1	—*	0.0	0.1	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	—*	—*	—*	—*	—*	—*
15-24 years	0.0	0.0	0.0	0.0	0.0	0.0
25-34 years	0.9	1.2	0.5	0.9	1.3	0.5
35-44 years	6.8	9.2	4.4	7.1	9.6	4.4
45-54 years	18.3	27.5	9.4	18.4	27.8	9.2
55-64 years	23.0	33.8	13.1	23.1	33.8	13.1
65-74 years	29.5	39.1	21.4	30.7	40.5	22.4
75-84 years	30.0	36.9	25.4	31.6	38.5	27.0
85 years +	20.1	27.5	16.8	20.9	28.4	17.5

—\*Represents zero.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

Source: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted malignant neoplasm death rate (147.8) for 1979-1981 has increased to 180.7 for years 2002-2004. The U.S. all-races rate (190.1) for 2003 is 1.1 times higher than the comparable AI/AN rate (180.7) for 2002-2004. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.33 Age-Adjusted Malignant Neoplasm Death Rates**

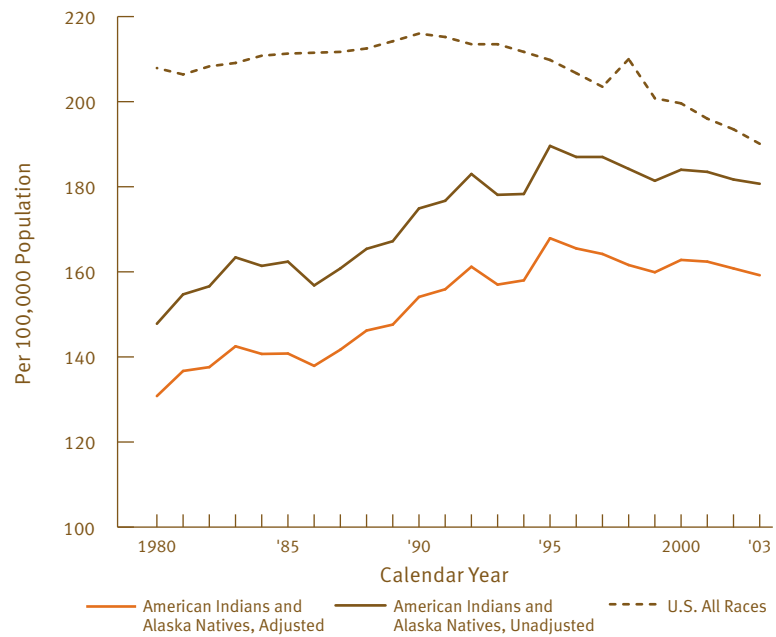




Table 4.33 Malignant Neoplasm Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES Rate	U.S. WHITE Rate	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2003-2005 (2004)	1,691	1,947						
2002-2004 (2003)	1,500	1,708	159.2	180.7	190.1	188.5	1.0	1.0
2001-2003 (2002)	1,523	1,737	160.8	181.7	193.5	191.7	0.9	0.9
2000-2002 (2001)	1,513	1,717	162.4	183.5	196.0	193.9	0.9	0.9
1999-2001 (2000)	1,325	1,506	162.8	184.0	199.6	197.2	0.9	0.9
1998-2000 (1999)	1,299	1,484	159.9	181.4	200.8	198.0	0.9	0.9
1997-1999 (1998)	1,255	1,451	161.6	184.2	210.0	200.7	0.9	0.9
1996-1998 (1997)	1,256	1,439	164.2	187.0	203.5	200.0	0.9	0.9
1995-1997 (1996)	1,226	1,400	165.5	187.0	206.7	203.3	0.9	0.9
1994-1996 (1995)	1,141	1,278	167.9	189.6	209.8	206.2	0.9	0.9
1993-1995 (1994)	1,046	1,201	158.0	178.3	211.7	208.0	0.8	0.9
1992-1994 (1993)	1,025	1,169	157.0	178.1	213.5	209.3	0.8	0.9
1991-1993 (1992)	1,026	1,174	161.2	183.0	213.5	209.5	0.9	0.9
1990-1992 (1991)	1,021	1,175	155.9	176.7	215.2	210.9	0.8	0.8
1989-1991 (1990)	859	969	154.1	174.9	216.0	211.6	0.8	0.8
1988-1990 (1989)	913	1,049	147.6	167.2	214.2	209.9	0.8	0.8
1987-1989 (1988)	831	954	146.2	165.4	212.5	208.4	0.8	0.8
1986-1988 (1987)	768	863	141.7	160.8	211.7	207.7	0.8	0.8
1985-1987 (1986)	756	881	137.9	156.8	211.5	207.6	0.7	0.8
1984-1986 (1985)	714	820	140.8	162.4	211.3	207.3	0.8	0.8
1983-1985 (1984)	713	836	140.7	161.4	210.8	206.7	0.8	0.8
1982-1984 (1983)	662	757	142.5	163.4	209.1	205.2	0.8	0.8
1981-1983 (1982)	617	706	137.6	156.6	208.3	204.7	0.8	0.8
1980-1982 (1981)	578	661	136.7	154.7	206.4	202.7	0.7	0.8
1979-1981 (1980)	567	635	130.8	147.8	207.9	204.2	0.7	0.7
1972-1974 (72-74)	1,142	1,293	132.2	150.0	202.2	199.3	0.7	0.8
1954-1956 (1955)	296		95.0		125.8	125.8		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

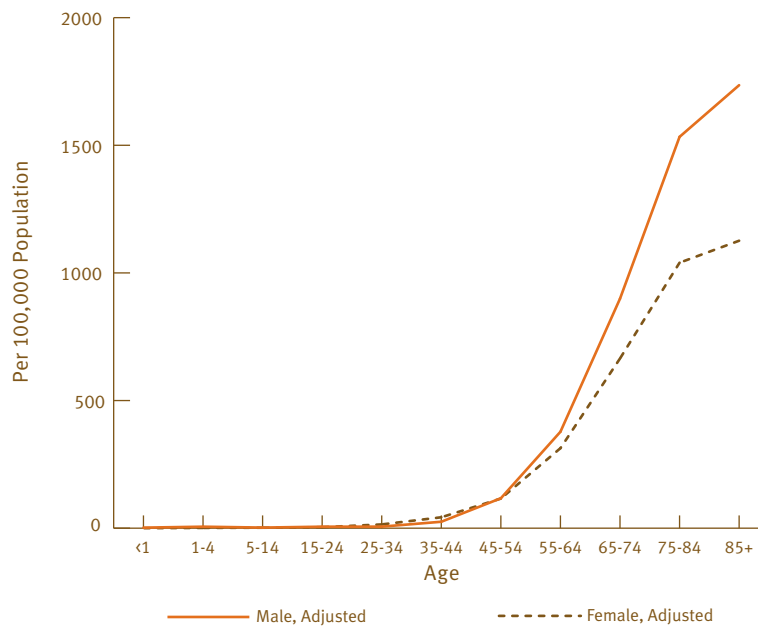
NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific malignant neoplasm death rate (2002-2004) for AI/AN males was 54 percent greater than AI/AN females in age group 85 years and over. However, for the age group 35 to 44 years, the female rate was 69 percent greater than the male rate. The rate for AI/AN females increased with age, but the onset of a rate increase for AI/AN males began at age 15. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.34 Malignant Neoplasm Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*



**Table 4.34 Malignant Neoplasm Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and  
U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	1.1	1.1	2.1	2.1	—*	—*
1-4 years	2.4	3.5	3.7	5.8	1.1	1.1
5-14 years	1.6	2.0	1.7	2.3	1.6	1.8
15-24 years	4.0	4.9	5.0	5.8	3.1	3.9
25-34 years	7.7	10.3	5.5	6.0	10.0	14.7
35-44 years	30.2	34.2	23.6	25.2	36.5	42.7
45-54 years	102.5	116.6	104.9	117.2	100.3	116.0
55-64 years	296.8	343.7	324.7	377.7	271.8	313.3
65-74 years	659.5	771.2	764.9	898.9	571.8	664.7
75-84 years	1,094.5	1,244.4	1,319.1	1,533.0	935.5	1,040.0
85 years +	1,302.1	1,318.8	1,682.5	1,735.4	1,126.1	1,126.1

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	1.9	1.7	2.1	2.1	1.8	2.3
1-4 years	2.5	2.8	2.1	2.6	2.9	2.3
5-14 years	2.6	2.8	2.4	2.7	2.9	2.5
15-24 years	4.0	4.6	3.4	4.1	4.7	3.4
25-34 years	9.4	8.9	9.9	9.1	8.9	9.4
35-44 years	35.0	30.8	39.1	33.6	29.9	37.3
45-54 years	122.2	127.4	117.1	116.0	119.9	112.1
55-64 years	343.0	386.8	302.3	336.6	375.6	299.8
65-74 years	770.3	931.7	635.3	769.5	922.7	638.9
75-84 years	1,302.5	1,695.4	1,040.1	1,303.4	1,683.6	1,046.3
85 years +	1,698.2	2,413.8	1,381.9	1,701.4	2,412.1	1,386.5

—\*Represents zero.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

Source: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted lung cancer death rate (49.8) for 2002-2004 was 82 percent higher than the 1979-1981 rate (27.3). The U.S. all-races rate (54.1) for 2003 is 1.1 times higher than the 2002-2004 AI/AN rate (49.8). AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

Chart 4.35 Age-Adjusted Lung Cancer Death Rates

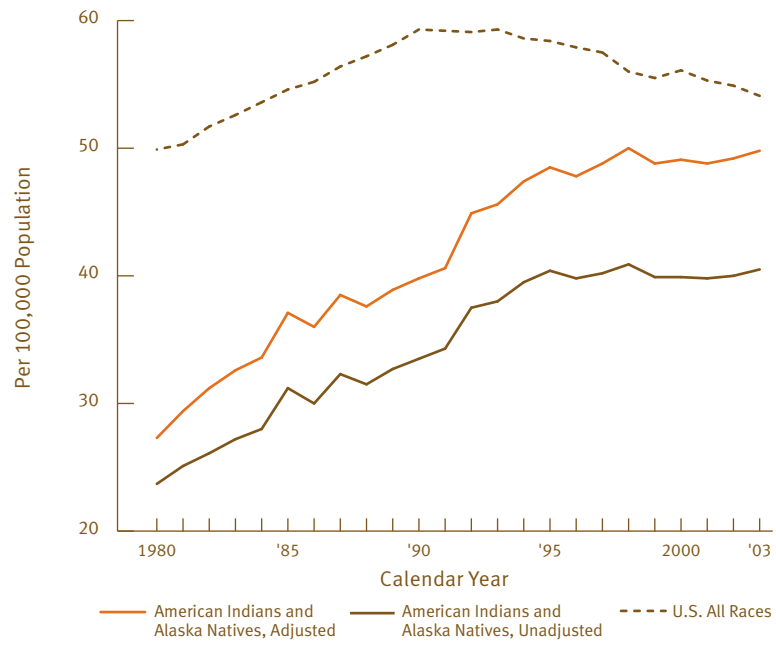


Table 4.35 Lung Cancer<sup>1</sup> Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1973-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>2</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>2</sup>	Unadjusted	Adjusted <sup>2</sup>	Rate	Rate		
2003-2005 (2004)	443	548						
2002-2004 (2003)	369	458	40.5	49.8	54.1	54.5	0.9	0.9
2001-2003 (2002)	375	462	40.0	49.2	54.9	55.2	0.9	0.9
2000-2002 (2001)	362	451	39.8	48.8	55.3	55.6	0.9	0.9
1999-2001 (2000)	309	378	39.9	49.1	56.1	56.2	0.9	0.9
1998-2000 (1999)	330	411	39.9	48.8	55.5	55.4	0.9	0.9
1997-1999 (1998)	325	399	40.9	50.0	56.0	57.1	0.9	0.9
1996-1998 (1997)	305	370	40.2	48.8	57.5	57.4	0.8	0.9
1995-1997 (1996)	290	351	39.8	47.8	57.9	57.7	0.8	0.8
1994-1996 (1995)	286	342	40.4	48.5	58.4	58.2	0.8	0.8
1993-1995 (1994)	264	321	39.5	47.4	58.6	58.3	0.8	0.8
1992-1994 (1993)	260	316	38.0	45.6	59.3	58.9	0.8	0.8
1991-1993 (1992)	233	278	37.5	44.9	59.1	58.5	0.8	0.8
1990-1992 (1991)	235	284	34.3	40.6	59.2	58.7	0.7	0.7
1989-1991 (1990)	188	220	33.5	39.8	59.3	58.6	0.7	0.7
1988-1990 (1989)	207	251	32.7	38.9	58.1	57.4	0.7	0.7
1987-1989 (1988)	209	253	31.5	37.6	57.2	56.6	0.7	0.7
1986-1988 (1987)	152	181	32.3	38.5	56.4	55.8	0.7	0.7
1985-1987 (1986)	194	235	30.0	36.0	55.2	54.5	0.7	0.7
1984-1986 (1985)	155	184	31.2	37.1	54.6	53.9	0.7	0.7
1983-1985 (1984)	146	173	28.0	33.6	53.6	52.9	0.6	0.6
1982-1984 (1983)	134	165	27.2	32.6	52.6	52.0	0.6	0.6
1981-1983 (1982)	124	147	26.1	31.2	51.7	51.1	0.6	0.6
1980-1982 (1981)	113	134	25.1	29.4	50.3	49.6	0.6	0.6
1979-1981 (1980)	103	120	23.7	27.3	49.9	49.2	0.5	0.6
1972-1974 (72-74)	136	152	15.2	16.9	40.9	40.3	0.4	0.4

<sup>1</sup>Lung cancer deaths includes deaths due to cancers of the trachea, bronchus and lung.

<sup>2</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Starting in 1972 data are first available and are shown above for the specific counties in the IHS service area. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific lung cancer death rate (2002-2004) for AI/AN males and females was fairly similar for age groups 1 to 44 years. For age group 75 to 84, the rate for AI/AN males (453.3) is 81 percent greater than the AI/AN rate (250.5) for females. The rate decreased for AI/AN males (317.5) and (176.3) for AI/AN females for ages 85 and older but the percent difference between AI/AN males and females dropped to only 80 percent. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.36 Lung Cancer Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*

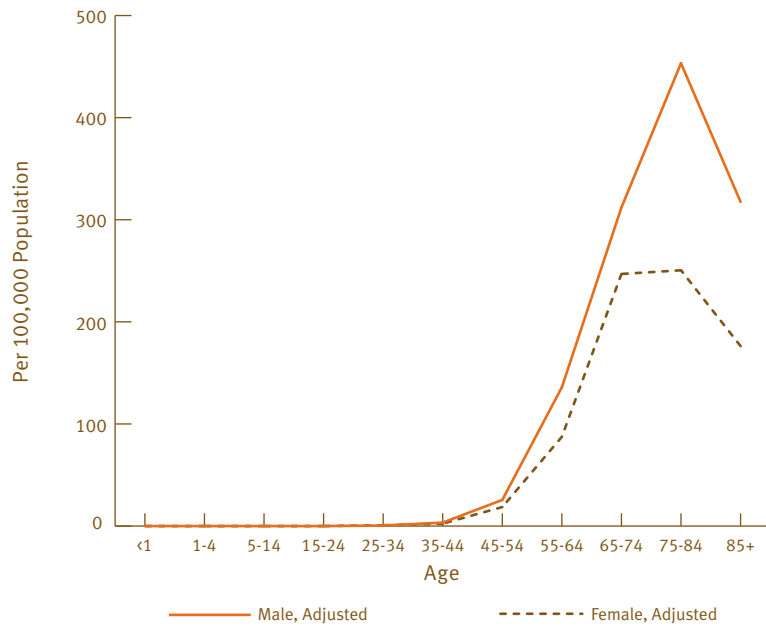


Table 4.36 Lung Cancer<sup>1</sup> Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>2</sup>	Unadjusted	Adjusted <sup>2</sup>	Unadjusted	Adjusted <sup>2</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	—*	—*	—*	—*	—*	—*
15-24 years	—*	—*	—*	—*	—*	—*
25-34 years	0.3	0.7	0.3	0.5	0.3	0.8
35-44 years	2.7	2.9	3.1	3.4	2.4	2.4
45-54 years	17.8	21.9	21.8	25.6	14.1	18.6
55-64 years	87.0	110.3	108.8	135.9	67.4	87.4
65-74 years	219.7	276.5	245.6	312.0	198.1	246.9
75-84 years	275.5	334.6	364.2	453.3	212.7	250.5
85 years +	210.9	220.9	285.7	317.5	176.3	176.3

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	0.0	0.0	0.0	0.0	0.0	0.0
5-14 years	0.0	0.0	0.0	0.0	—*	0.0
15-24 years	0.1	0.1	0.1	0.1	0.1	0.1
25-34 years	0.4	0.4	0.4	0.4	0.4	0.4
35-44 years	5.6	6.1	5.1	5.4	5.7	5.1
45-54 years	30.3	36.5	24.4	28.9	34.1	23.8
55-64 years	111.0	136.7	87.1	110.8	133.1	89.8
65-74 years	269.3	346.6	204.8	274.2	347.1	212.2
75-84 years	377.8	525.1	279.4	382.6	524.6	286.6
85 years +	298.9	475.1	221.0	302.4	478.5	224.4

—\*Represents zero.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Lung cancer deaths includes deaths due to cancers of the trachea, bronchus and lung, ICD-10 codes C33 to C34.9.

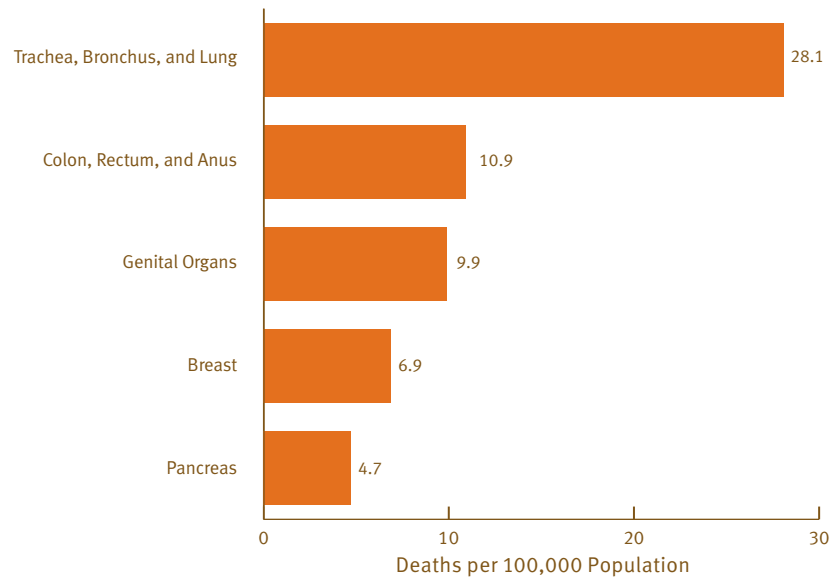
<sup>2</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

Source: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The leading site for cancer deaths among AI/AN in 2002-2004 was trachea, bronchus, and lung. Over 2.5 times as many AI/AN people died of this type of cancer than the next leading site, colon, rectum and anus. The third and fourth leading sites were genital organs and breast, respectively. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

Chart 4.37 Death Rates for Leading Cancer Sites

*American Indians and Alaska Natives (2002-2004)*





**Table 4.37** Leading Sites for Cancer Deaths for Decedents of All Ages

*American Indians and Alaska Natives, IHS Service Area, 2002-2004  
(Crude Rate per 100,000 Population)*

Site of Cancer Death	Number		Rate	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
<b>All Sites</b>	<b>4,626</b>	<b>5,290</b>	<b>88.7</b>	<b>101.4</b>
Trachea, bronchus, and lung	1,187	1,468	22.8	28.1
Colon, rectum, and anus	493	566	9.5	10.9
Genital organs	451	514	8.6	9.9
Breast	307	359	5.9	6.9
Pancreas	226	245	4.3	4.7
Kidney, renal pelvis	207	228	4.0	4.4
Stomach	210	220	4.0	4.2
Liver and intraepithelial bile duct	186	208	3.6	4.0
Leukemia	153	172	2.9	3.3
Non-Hodgkin lymphoma	146	160	2.8	3.1
Esophagus	113	120	2.2	2.3
Multiple myeloma	111	117	2.1	2.2
Brain, meninges, central nervous system	77	83	1.5	1.6
Lip, oral cavity, and pharynx	76	82	1.5	1.6
Gallbladder	53	57	1.0	1.1
Urinary bladder	51	52	1.0	1.0
Soft tissue including heart	39	40	0.7	0.8
Melanoma of skin	33	34	0.6	0.7
Larynx	30	32	0.6	0.6
Bones	22	23	0.4	0.4
Thyroid/endocrine	14	15	0.3	0.3
Hodgkin lymphoma	11	11	0.2	0.2
Mesothelioma	10	11	0.2	0.2
Hematopoietic and related tissue	1	1	0.0	0.0
<b>All other sites</b>	<b>419</b>	<b>472</b>		

0.0 Quantity more than zero but less than 0.05.

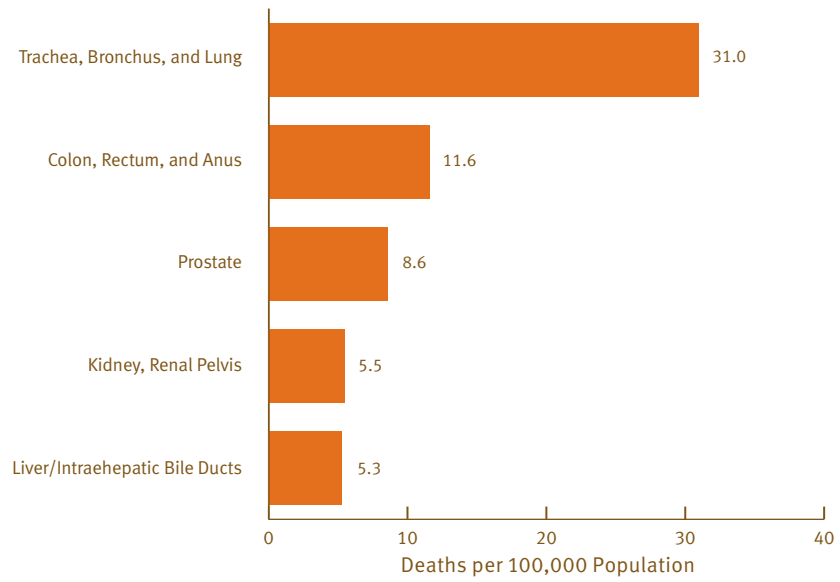
<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: See appendix titled "Method Used to Rank Leading Sites of Cancer Deaths." Causes of death listed are based on the order of adjusted number of deaths.

The leading site for cancer deaths among AI/AN males for 2002-2004 was trachea, bronchus, and lung. Over two and a half times as many AI/AN males died of this type of cancer than the next leading site, colon, rectum, and anus. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.38** Death Rates, Leading Cancer Sites: Males

*American Indians and Alaska Natives (2002-2004)*



**Table 4.38** Leading Sites for Cancer Deaths for Males

*American Indians and Alaska Natives, IHS Service Area, 2002-2004  
(Rate per 100,000 Population)*

Site of Cancer Death	NUMBER		RATE	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
<b>All Sites</b>	<b>2,298</b>	<b>2,645</b>	<b>89.3</b>	<b>102.7</b>
Trachea, bronchus, and lung	643	798	25.0	31.0
Colon, rectum, and anus	260	299	10.1	11.6
Prostate	193	221	7.5	8.6
Kidney and renal pelvis	128	141	5.0	5.5
Liver/intrahepatic bile ducts	115	136	4.5	5.3
Stomach	120	126	4.5	4.9
Pancreas	110	121	4.3	4.7
Esophagus	88	95	3.4	3.7
Leukemia	81	93	3.1	3.6
Non-Hodgkin lymphoma	77	87	3.0	3.4
Multiple myeloma	54	58	2.1	2.3
Brain, meninges, central nervous system	50	55	1.9	2.1
Lip, oral cavity, and pharynx	48	52	1.9	2.0
Urinary bladder	30	31	1.2	1.2
Larynx	22	24	0.9	0.9
Gallbladder	17	17	0.7	0.7
Melanoma of skin	17	18	0.7	0.7
Soft tissue including heart	15	16	0.6	0.6
Bone and joints	9	10	0.3	0.4
Mesothelioma	5	5	0.2	0.2
Testis	5	5	0.2	0.2
Hodgkin lymphoma	4	4	0.2	0.2
Thyroid/endocrine	3	3	0.1	0.1
Ureter	1	2	0.0	0.1
Breast	1	1	0.0	0.0
<b>All other sites</b>	<b>202</b>	<b>227</b>	<b>7.8</b>	<b>8.8</b>

0.0 Quantity more than zero but less than 0.05.

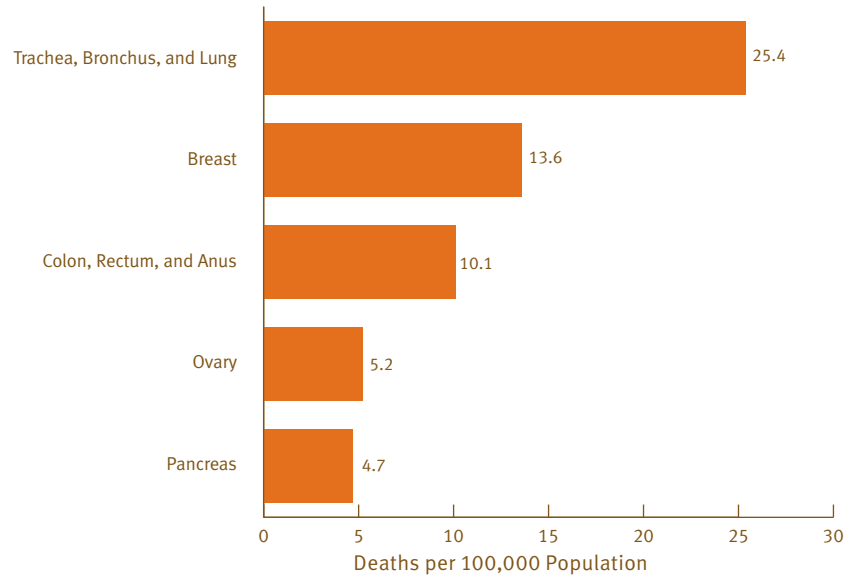
<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: See appendix titled "Method Used to Rank Leading Sites of Cancer Deaths." Causes of death listed are based on the order of adjusted number of deaths.

The leading site for cancer deaths among AI/AN females for 2002-2004 was trachea, bronchus, and lung. About 11.8 percent more AI/AN females died of this type of cancer than the next leading site, breast. In turn, the likelihood of dying from breast cancer was about 35 percent greater than the next leading type of cancer (colon, rectum, and anus). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.39** Death Rates, Leading Cancer Sites: Females

*American Indians and Alaska Natives (2002-2004)*



**Table 4.39 Leading Sites for Cancer Deaths for Females**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004  
(Rate per 100,000 Population)*

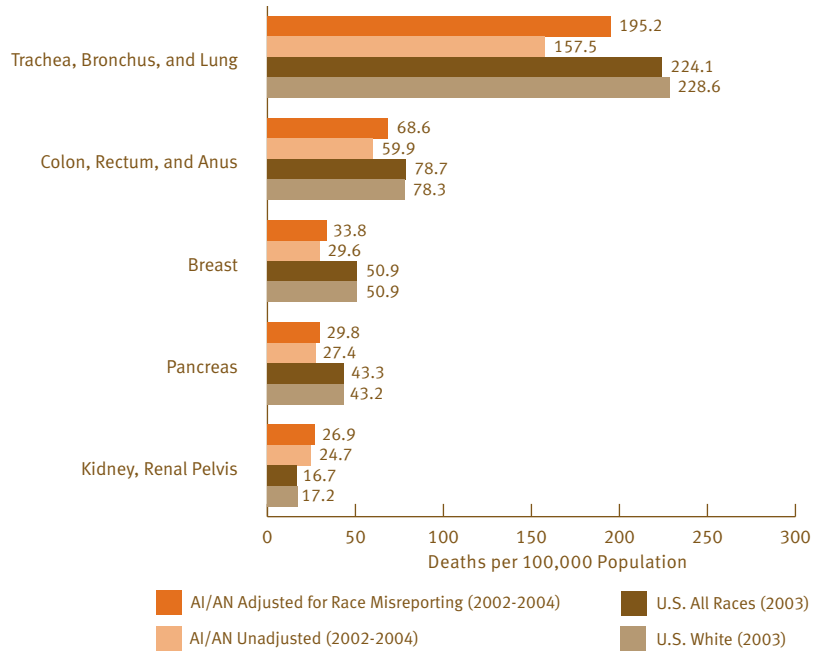
Site of Cancer Death	Number		Rate	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
<b>All Sites</b>	<b>2,328</b>	<b>2,646</b>	<b>88.1</b>	<b>100.2</b>
Trachea, bronchus, and lung	544	670	20.6	25.4
Breast	306	358	11.6	13.6
Colon, rectum, and anus	233	267	8.8	10.1
Ovary	121	137	4.6	5.2
Pancreas	116	124	4.4	4.7
Stomach	90	94	3.4	3.6
Cervical	77	91	2.9	3.4
Kidney and renal pelvis	79	87	3.0	3.3
Leukemia	72	79	2.7	3.0
Non-Hodgkin lymphoma	69	73	2.6	2.8
Liver/intrahepatic bile ducts	71	72	2.7	2.7
Multiple myeloma	57	59	2.2	2.2
Uterus	49	54	1.9	2.0
Gallbladder	36	40	1.4	1.5
Lip, oral cavity, and pharynx	28	30	1.1	1.1
Brain, meninges, central nervous system	27	28	1.0	1.1
Esophagus	25	25	0.9	0.9
Soft tissue including heart	24	24	0.8	0.9
Urinary bladder	21	21	0.8	0.8
Melanoma of skin	16	16	0.6	0.6
Bone and joints	13	13	0.3	0.5
Thyroid/endocrine	11	12	0.4	0.5
Larynx	8	8	0.3	0.3
Hodgkin lymphoma	7	7	0.3	0.3
Mesothelioma	5	6	0.2	0.2
Vulva	6	6	0.2	0.2
<b>All other sites</b>	<b>217</b>	<b>245</b>	<b>8.2</b>	<b>9.3</b>

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: See appendix titled "Method Used to Rank Leading Sites of Cancer Deaths." Causes of death listed are based on the order of adjusted number of deaths.

The leading site for cancer deaths among American Indians and Alaska Natives (AI/AN), 55 years of age and older for the 2002-2004 three-year period was trachea, bronchus, and lung. Nearly three times as many AI/AN people in this age group died of this type of cancer than the next leading site, colon, rectum, and anus. The third and fourth leading sites were breast and pancreas, respectively. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.40 Death Rates, Leading Cancer Sites: 55 Years of Age and Older**



**Table 4.40 Leading Sites for Cancer Deaths for Decedents 55 Years of Age and Older**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003  
(Rate per 100,000 Population)*

Site of Cancer Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
<b>All Sites</b>	<b>3,410</b>	<b>3,900</b>	<b>507.7</b>	<b>580.7</b>	<b>759.3</b>	<b>765.5</b>	<b>0.8</b>	<b>0.8</b>
Trachea, bronchus, and lung	1,059	1,311	157.5	195.2	224.1	228.6	0.9	0.9
Colon, rectum, and anus	402	461	59.9	68.6	78.7	78.3	0.9	0.9
Breast	199	227	29.6	33.8	50.9	50.9	0.7	0.7
Pancreas	184	200	27.4	29.8	43.3	43.2	0.7	0.7
Kidney, renal pelvis	166	181	24.7	26.9	16.7	17.2	1.6	1.6
Stomach	154	162	22.9	24.1	16.1	14.5	1.5	1.7
Liver and intraepithelial bile duct	138	153	20.5	22.8	18.7	17.6	1.2	1.3
Non-Hodgkin lymphoma	112	124	16.7	18.5	29.5	31.5	0.6	0.6
Leukemia	95	102	14.4	15.2	28.5	30.0	0.5	0.5
Esophagus	94	100	14.0	14.9	17.4	17.5	0.9	0.9
Multiple myeloma	93	97	13.8	14.4	15.7	14.9	0.9	1.0
Genital organs	77	81	11.5	12.1	80.3	77.7	0.2	0.2
Lip, oral cavity, pharynx	63	68	9.4	10.1	9.8	9.6	1.0	1.1
Gallbladder	45	49	6.7	7.3	2.7	2.7	2.7	2.7
Urinary bladder	44	45	6.6	6.7	18.6	19.6	0.4	0.3
Brain, meninges, central nervous system	36	37	5.4	5.5	13.7	14.7	0.4	0.4
Larynx	24	28	3.6	4.2	5.2	4.9	0.8	0.9
Melanoma of the skin	26	27	3.9	4.0	9.2	10.3	0.4	0.4
Soft tissue including the heart	18	19	2.7	2.8	3.9	4.0	0.7	0.7
Thyroid, endocrine	11	12	1.6	1.8	1.8	1.8	1.0	1.0
Bones and joints	9	11	1.3	1.6	1.0	1.1	1.6	1.5
Mesothelioma	9	10	1.3	1.5	3.6	3.9	0.4	0.4
Hodgkin lymphoma	9	9	1.3	1.3	1.3	1.3	1.0	1.0
Hematopoietic and related tissue	1	1	0.1	0.1	0.1	0.1	1.0	1.0
<b>All other sites</b>	<b>342</b>	<b>385</b>						

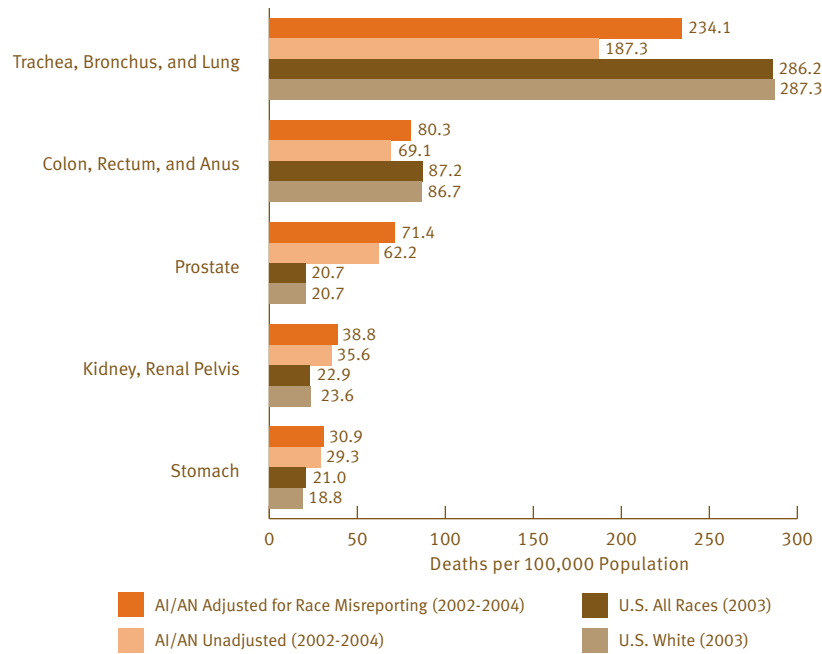
<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates to compensate for misreporting of AI/AN race on state death certificates.

NOTE: See appendix titled "Method Used to Rank Leading Sites of Cancer Deaths." Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The leading site for cancer deaths among AI/AN males, 55 years and older, in 2002-2004 was trachea, bronchus, and lung, in 2002-2004 was trachea, bronchus, and lung. About 2.9 times as many AI/AN males in this age group died of this type of cancer than the next leading site of colon, rectum, and anus. These AI/AN rates have been adjusted for misreporting of AI/AN race on state death certificate.

**Chart 4.41 Death Rates, Leading Cancer Sites: Males, 55 Years of Age and Older**



The leading site for cancer deaths among American Indian and Alaska Native (AI/AN) females, 55 years and older, in 2002-2004 was trachea, bronchus, and lung. Nearly 3 times as many AI/AN females in this age group died of this type of cancer than the next leading site, breast. These AI/AN rates have been adjusted for misreporting of AI/AN race on state death certificates.

**Chart 4.42 Death Rates, Leading Cancer Sites: Females, 55 Years of Age and Older**

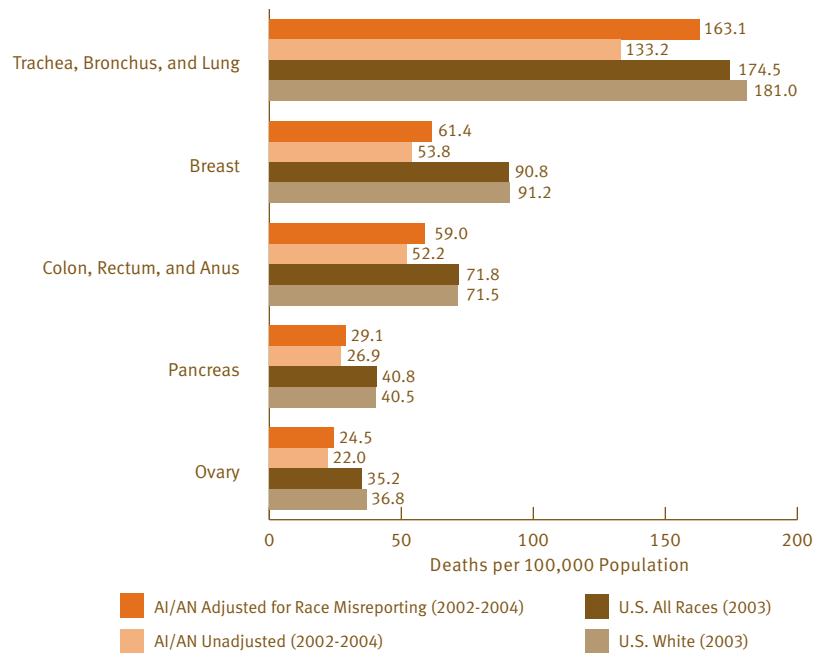




Table 4.41 Leading Sites for Cancer Deaths by Sex 55 Years of Age and Older

American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003  
(Rate per 100,000 Population)

Site of Cancer Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
<b>MALE</b>								
<i>All Sites</i>	<i>1,853</i>	<i>2,145</i>	<i>556.7</i>	<i>715.7</i>	<i>888.1</i>	<i>887.8</i>	<i>0.8</i>	<i>0.8</i>
Trachea, bronchus, and lung	569	711	187.3	234.1	286.2	287.3	0.8	0.8
Colon, rectum, and anus	210	244	69.1	80.3	87.2	86.7	0.9	0.9
Prostate	189	217	62.2	71.4	20.7	20.7	3.4	3.4
Kidney, renal pelvis	108	118	35.6	38.8	22.9	23.6	1.7	1.6
Stomach	89	94	29.3	30.9	21.0	18.8	1.5	1.6
Pancreas	85	93	28.0	30.6	46.3	46.4	0.7	0.7
Liver and intraepithelial bile duct	77	91	25.3	30.0	25.8	24.2	1.2	1.2
Esophagus	73	79	24.0	26.0	29.8	29.9	0.9	0.9
Non-Hodgkin lymphoma	58	66	19.1	21.7	34.3	36.6	0.6	0.6
Leukemia	45	50	14.8	16.5	35.6	37.5	0.5	0.4
Multiple myeloma	40	42	13.2	13.8	18.0	17.3	0.8	0.8
Lip, oral cavity, and pharynx	38	41	12.5	13.5	14.5	13.7	0.9	1.0
Urinary bladder	27	28	8.9	9.2	28.6	30.5	0.3	0.3
Brain, meninges, central nervous system	19	20	6.3	6.6	16.4	17.5	0.4	0.4
Larynx	18	20	5.9	6.6	9.2	8.5	0.7	0.8
Gallbladder	14	14	4.6	4.6	1.9	1.9	2.4	2.4
Melanoma of the skin	13	14	4.3	4.6	13.1	14.8	0.4	0.3
Bones and joints	5	6	1.6	2.0	1.2	1.3	1.7	1.5
Mesothelioma	4	4	1.3	1.3	6.6	7.2	0.2	0.2
Hodgkin lymphoma	3	3	1.0	1.0	1.5	1.5	0.7	0.7
Thyroid, endocrine	2	2	0.7	0.7	1.5	1.6	0.5	0.4
Breast	1	1	0.3	0.3	1.1	1.1	0.3	0.3
<i>All other sites</i>	<i>166</i>	<i>187</i>						
<b>FEMALE</b>								
<i>All Sites</i>	<i>1,818</i>	<i>2,052</i>	<i>494.2</i>	<i>557.6</i>	<i>656.3</i>	<i>666.4</i>	<i>0.8</i>	<i>0.8</i>
Trachea, bronchus, and lung	490	600	133.2	163.1	174.5	181.0	0.9	0.9
Breast	198	226	53.8	61.4	90.8	91.2	0.7	0.7
Colon, rectum, and anus	192	217	52.2	59.0	71.8	71.5	0.8	0.8
Pancreas	99	107	26.9	29.1	40.8	40.5	0.7	0.7
Ovary	81	90	22.0	24.5	35.2	36.8	0.7	0.7
Stomach	65	68	17.7	18.5	12.2	11.0	1.5	1.7
Kidney, renal pelvis	58	63	15.8	17.1	11.6	12.1	1.5	1.4
Liver and intraepithelial bile duct	61	62	16.6	16.9	13.0	12.2	1.3	1.4
Non-Hodgkin lymphoma	54	58	14.7	15.8	25.7	27.4	0.6	0.6
Multiple Myeloma	53	55	14.4	14.7	13.9	12.9	1.1	1.1
Leukemia	50	52	13.6	14.1	22.8	23.8	0.6	0.6
Cervix	36	38	9.8	10.3	6.1	5.4	1.7	1.9
Uterus	33	35	9.0	9.5	17.4	16.6	0.5	0.6
Gallbladder	31	35	8.4	9.5	3.4	3.4	2.8	2.8
Lip, oral cavity, and pharynx	25	27	6.8	7.3	6.1	6.2	1.2	1.2
Esophagus	21	21	5.7	5.7	7.6	7.4	0.8	0.8
Brain, meninges, central nervous system	17	17	4.6	4.6	11.6	12.5	0.4	0.4
Urinary bladder	17	17	4.6	4.6	10.6	10.9	0.4	0.4
Melanoma of the skin	13	13	3.5	3.5	6.0	6.7	0.6	0.5
Soft tissue including the heart	10	10	2.7	2.7	3.7	3.7	0.7	0.7
Thyroid, endocrine	9	10	2.4	2.7	2.0	2.0	1.4	1.4
Larynx	6	8	1.6	2.2	1.9	1.9	1.2	1.2
Hodgkin lymphoma	6	6	1.6	1.6	1.1	1.2	1.5	1.3
Vulva	6	6	1.6	1.6	2.0	2.2	0.8	0.7
Mesothelioma	5	6	1.4	1.6	1.2	1.3	1.3	1.2
Bones and joints	4	5	1.1	1.4	0.9	0.9	1.6	1.6
Other and unspecified malignant neoplasms of lymphoid, hematopoietic, related tissue	1	1	0.3	0.3	0.1	0.1	3.0	3.0
<i>All other sites</i>	<i>177</i>	<i>199</i>						

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates to compensate for misreporting of AI/AN race on state death certificates.

NOTE: See appendix titled "Method Used to Rank Leading Sites of Cancer Deaths." Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The AI/AN age-adjusted pneumonia and influenza death rate varied between 38.7 and 32.4 between 1979-1981 and 2002-2004. The 2002-2004 rate (32.4) is 1.5 times greater than the U.S. all-races rate (22.0) for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.43 Age-Adjusted Pneumonia and Influenza Death Rates**

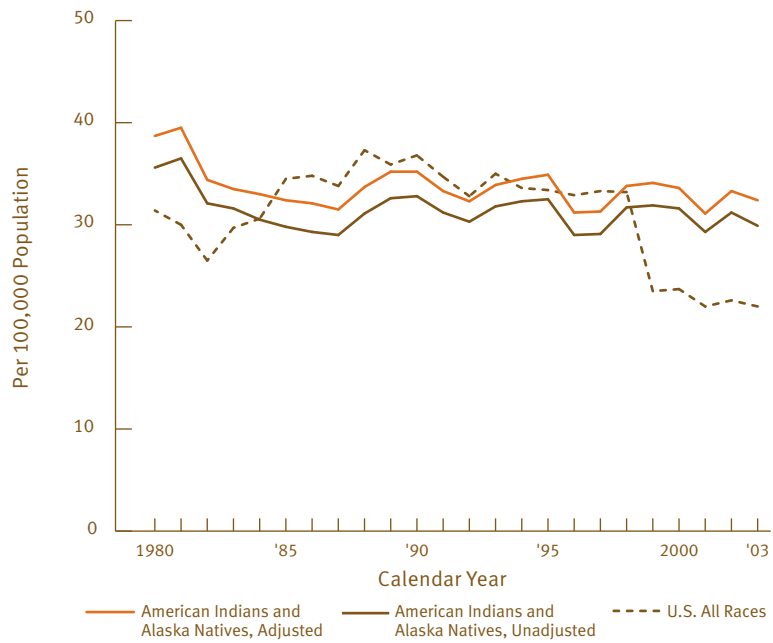


Table 4.43 Pneumonia and Influenza Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
2003-2005 (2004)	230	250						
2002-2004 (2003)	304	333	29.9	32.4	22.0	21.9	1.5	1.5
2001-2003 (2002)	233	249	31.2	33.3	22.6	22.6	1.5	1.5
2000-2002 (2001)	232	244	29.3	31.1	22.0	21.7	1.4	1.4
1999-2001 (2000)	218	234	31.6	33.6	23.7	23.5	1.4	1.4
1998-2000 (1999)	254	273	31.9	34.1	23.5	23.3	1.5	1.5
1997-1999 (1998)	301	319	31.7	33.8	33.2	34.6	1.0	1.0
1996-1998 (1997)	266	287	29.1	31.3	33.3	33.0	0.9	0.9
1995-1997 (1996)	278	309	29.0	31.2	32.9	32.5	0.9	1.0
1994-1996 (1995)	265	282	32.5	34.9	33.4	33.0	1.0	1.1
1993-1995 (1994)	297	321	32.3	34.5	33.6	33.3	1.0	1.0
1992-1994 (1993)	265	286	31.8	33.9	35.0	34.6	1.0	1.0
1991-1993 (1992)	241	256	30.3	32.3	32.8	32.5	1.0	1.0
1990-1992 (1991)	237	257	31.2	33.3	34.7	34.3	1.0	1.0
1989-1991 (1990)	259	286	32.8	35.2	36.8	36.4	1.0	1.0
1988-1990 (1989)	248	242	32.6	35.2	35.9	35.4	1.0	1.0
1987-1989 (1988)	221	238	31.1	33.7	37.3	37.1	0.9	0.9
1986-1988 (1987)	220	238	29.0	31.5	33.8	33.5	0.9	0.9
1985-1987 (1986)	174	189	29.3	32.1	34.8	34.5	0.9	0.9
1984-1986 (1985)	206	232	29.8	32.4	34.5	34.3	0.9	0.9
1983-1985 (1984)	200	215	30.5	33.0	30.6	30.3	1.1	1.1
1982-1984 (1983)	170	182	31.6	33.5	29.7	29.6	1.1	1.1
1981-1983 (1982)	202	217	32.1	34.4	26.5	26.2	1.3	1.3
1980-1982 (1981)	181	198	36.5	39.5	30.0	29.7	1.3	1.3
1979-1981 (1980)	215	233	35.6	38.7	31.4	30.9	1.2	1.3
1972-1974 (72-74)	690	743	47.4	50.5	38.4	37.3	1.3	1.4
1954-1956 (1955)	384		64.4		21.0	18.4		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

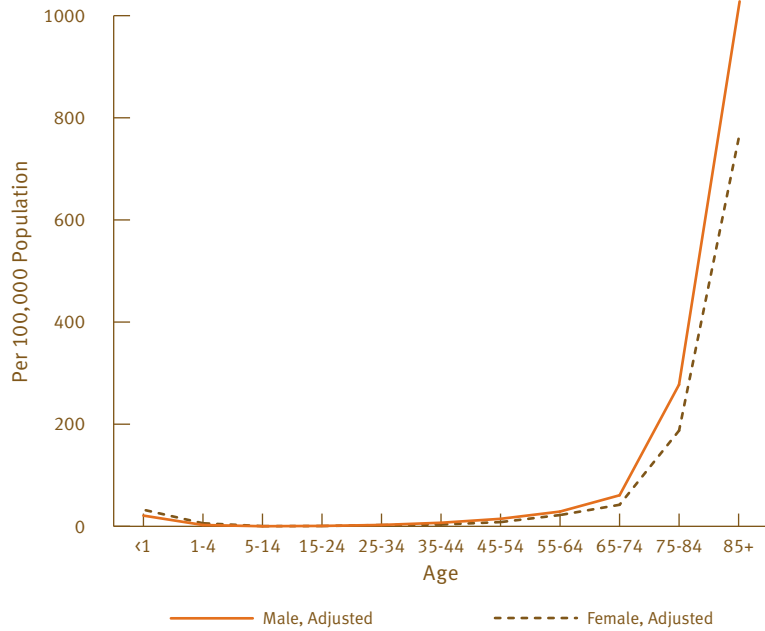
NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific pneumonia and influenza death rate (2002-2004) for AI/AN males and females increased sharply starting at age 85 years as it did for U.S. all-races males and females. The AI/AN male rates were greater than the AI/AN female rates for all ages greater than 14 years. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.44** Pneumonia and Influenza Death Rates by Age and Sex

*American Indians and Alaska Natives (2002-2004)*



**Table 4.44** Pneumonia and Influenza Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	28.8 <sup>2</sup>	26.7 <sup>2</sup>	29.5 <sup>2</sup>	21.0 <sup>2</sup>	28.2	32.5
1-4 years	2.1	4.3	1.1	2.6	3.3	6.0
5-14 years	0.2	0.3	0.2	0.2	0.2	0.4
15-24 years	0.6	0.7	0.6	0.8	0.6	0.6
25-34 years	2.2	2.6	2.5	2.7	1.9	2.5
35-44 years	5.1	5.2	6.7	7.0	3.5	3.5
45-54 years	10.9	11.4	13.7	14.7	8.3	8.3
55-64 years	23.0	25.3	25.9	28.9	20.5	22.1
65-74 years	48.1	50.7	57.4	60.8	40.4	42.2
75-84 years	200.5	224.8	239.4	277.6	173.0	187.5
85 years +	806.7	853.6	973.5	1,058.2	729.5	758.9

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	8.0	9.4	6.6	6.7	8.0	5.4
1-4 years	1.0	1.1	0.9	0.9	1.1	0.8
5-14 years	0.4	0.3	0.4	0.3	0.3	0.4
15-24 years	0.5	0.6	0.5	0.5	0.6	0.5
25-34 years	0.9	1.1	0.7	0.8	1.0	0.6
35-44 years	2.2	2.5	1.9	2.0	2.2	1.8
45-54 years	5.2	6.4	4.1	4.7	5.6	3.7
55-64 years	11.2	13.2	9.4	10.3	11.6	9.0
65-74 years	37.3	46.5	29.5	35.9	44.0	29.0
75-84 years	151.1	186.8	127.2	151.5	184.9	129.0
85 years +	666.1	757.8	625.6	679.3	767.1	640.1

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>The adjusted rate for age less than one year is *lower* than the unadjusted rate because the linked birth/infant death file (used to obtain the adjusted counts of infant deaths) had *fewer* deaths for this cause than did the unadjusted mortality file (2002-2004 data).

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted tuberculosis death rate has dropped from 6.8 deaths in 1979-1981 to 1.7 for years 2002-2004. The 2002-2004 rate (1.7) is 8.5 times the U.S. all-races rate (0.2) for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.45** Age-Adjusted Tuberculosis Death Rates

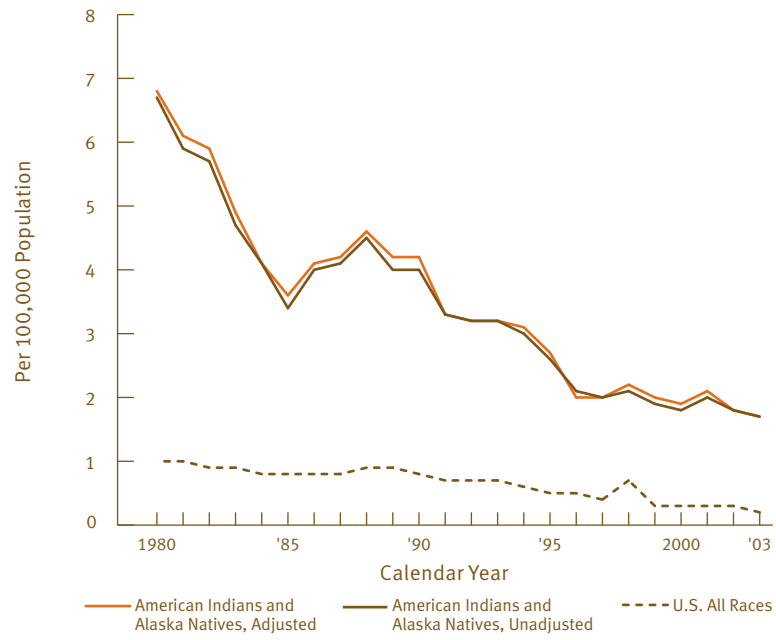


Table 4.45 Tuberculosis Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
2003-2005 (2004)	12	12						
2002-2004 (2003)	11	11	1.7	1.7	0.2	0.2	8.5	8.5
2001-2003 (2002)	24	25	1.8	1.8	0.3	0.2	6.0	9.0
2000-2002 (2001)	12	13	2.0	2.1	0.3	0.2	7.0	10.5
1999-2001 (2000)	14	15	1.8	1.9	0.3	0.2	6.3	9.5
1998-2000 (1999)	17	18	1.9	2.0	0.3	0.2	6.7	10.0
1997-1999 (1998)	17	18	2.1	2.2	0.7	0.4	3.1	5.5
1996-1998 (1997)	20	21	2.0	2.0	0.4	0.3	5.0	6.7
1995-1997 (1996)	14	14	2.1	2.0	0.5	0.3	4.0	6.7
1994-1996 (1995)	18	19	2.6	2.7	0.5	0.4	5.4	6.8
1993-1995 (1994)	30	30	3.0	3.1	0.6	0.4	5.2	7.8
1992-1994 (1993)	24	24	3.2	3.2	0.7	0.4	4.6	8.0
1991-1993 (1992)	19	19	3.2	3.2	0.7	0.5	4.6	6.4
1990-1992 (1991)	25	25	3.3	3.3	0.7	0.5	4.7	6.6
1989-1991 (1990)	24	25	4.0	4.2	0.8	0.5	5.3	8.4
1988-1990 (1989)	33	36	4.0	4.2	0.9	0.6	4.7	7.0
1987-1989 (1988)	25	25	4.5	4.6	0.9	0.6	5.1	7.7
1986-1988 (1987)	28	28	4.1	4.2	0.8	0.5	5.3	8.4
1985-1987 (1986)	24	26	4.0	4.1	0.8	0.6	5.1	6.8
1984-1986 (1985)	18	18	3.4	3.6	0.8	0.6	4.5	6.0
1983-1985 (1984)	17	18	4.1	4.1	0.8	0.6	5.1	6.8
1982-1984 (1983)	31	31	4.7	4.9	0.9	0.6	5.4	8.2
1981-1983 (1982)	22	23	5.7	5.9	0.9	0.6	6.6	9.8
1980-1982 (1981)	30	30	5.9	6.1	1.0	0.7	6.1	8.7
1979-1981 (1980)	31	33	6.7	6.8	1.0	0.7	6.8	9.7
1972-1974 (72-74)	143	147	10.5	10.8	1.7	1.3	6.4	8.3
1954-1956 (1955)	253		57.9		8.4	6.2		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The AI/AN age-adjusted diabetes mellitus death rate for 2002-2004 was 74.2 which is 63.1 percent higher than the earlier rate of 45.5 for the 1979-1981 three year period. This latest rate of 74.2 is 2.9 times higher than the U.S. all-races rate of 25.3 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.46 Age-Adjusted Diabetes Mellitus Death Rates**

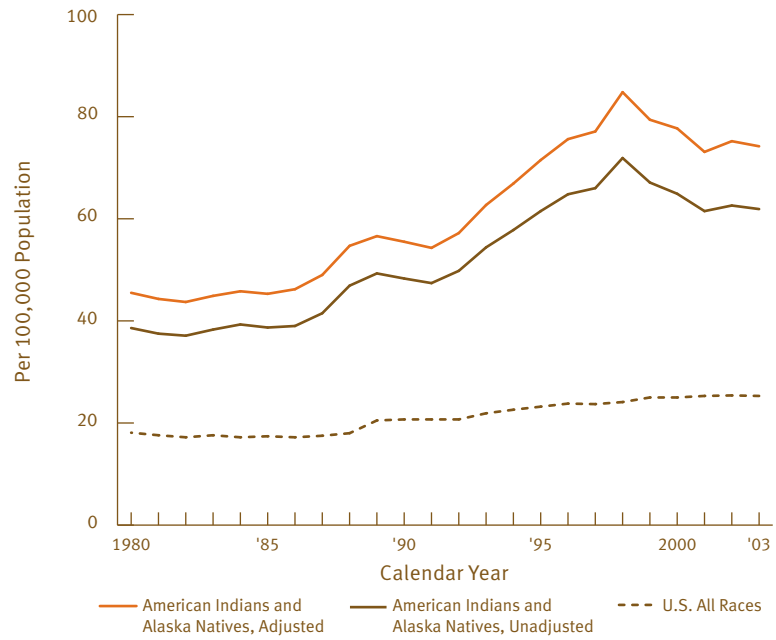




Table 4.46 Diabetes Mellitus Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
2003-2005 (2004)	602	722						
2002-2004 (2003)	627	771	61.9	74.2	25.3	23.0	2.9	3.2
2001-2003 (2002)	607	718	62.6	75.2	25.4	23.1	3.0	3.3
2000-2002 (2001)	521	631	61.5	73.1	25.3	23.0	2.9	3.2
1999-2001 (2000)	499	598	64.9	77.7	25.0	22.8	3.1	3.4
1998-2000 (1999)	595	720	67.1	79.4	25.0	22.6	3.2	3.5
1997-1999 (1998)	516	604	71.9	84.8	24.1	21.7	3.5	3.9
1996-1998 (1997)	546	649	66.0	77.1	23.7	21.3	3.3	3.6
1995-1997 (1996)	449	527	64.8	75.6	23.8	21.5	3.2	3.5
1994-1996 (1995)	426	497	61.5	71.5	23.2	20.9	3.1	3.4
1993-1995 (1994)	399	467	57.8	66.9	22.6	20.4	3.0	3.3
1992-1994 (1993)	354	412	54.4	62.7	21.9	19.8	2.9	3.2
1991-1993 (1992)	324	373	49.8	57.2	20.7	18.7	2.8	3.1
1990-1992 (1991)	275	320	47.4	54.3	20.7	18.7	2.6	2.9
1989-1991 (1990)	285	330	48.3	55.5	20.7	18.8	2.7	3.0
1988-1990 (1989)	301	349	49.3	56.6	20.5	18.6	2.8	3.0
1987-1989 (1988)	260	303	46.9	54.7	18.0	16.3	3.0	3.4
1986-1988 (1987)	227	274	41.5	49.0	17.5	15.9	2.8	3.1
1985-1987 (1986)	195	234	39.0	46.2	17.2	15.6	2.7	3.0
1984-1986 (1985)	208	245	38.7	45.3	17.4	15.9	2.6	2.8
1983-1985 (1984)	189	222	39.3	45.8	17.2	15.8	2.7	2.9
1982-1984 (1983)	180	212	38.3	44.9	17.6	16.3	2.6	2.8
1981-1983 (1982)	164	197	37.1	43.7	17.2	16.0	2.5	2.7
1980-1982 (1981)	156	185	37.5	44.3	17.6	16.2	2.5	2.7
1979-1981 (1980)	173	206	38.6	45.5	18.1	16.7	2.5	2.7
1972-1974 (72-74)	356	418	40.3	47.2	23.2	21.6	2.0	2.2
1954-1956 (1955)	64		17.0		13.0	12.6		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

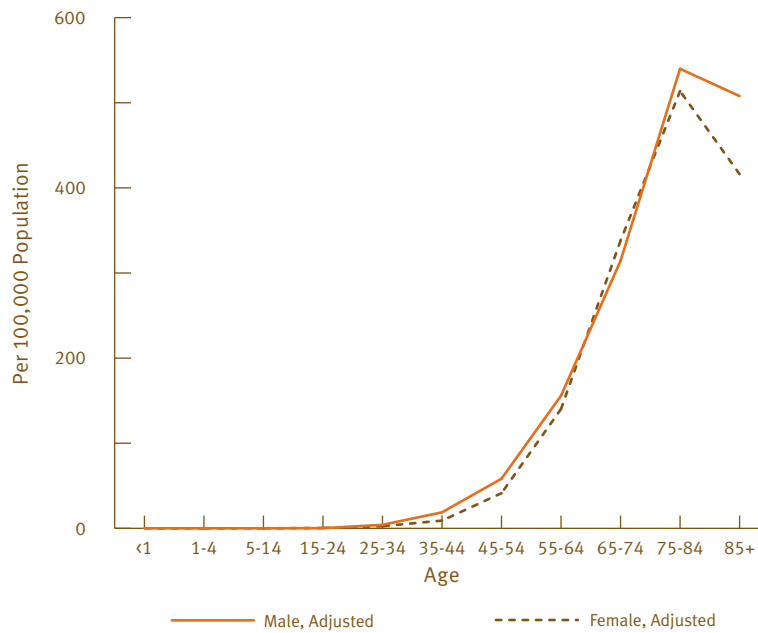
NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific diabetes mellitus death rate (2002-2004) for AI/AN increased sharply with age. Starting with age group 85 years and over the diabetes rate declined for both AI/AN males and females; whereas the diabetes rates increased for this same age group for U.S. all-races and U.S white. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.47 Diabetes Mellitus Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*



**Table 4.47 Diabetes Mellitus Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	—*	—*	—*	—*	—*	—*
15-24 years	0.3	0.3	0.2	0.2	0.4	0.4
25-34 years	2.6	3.3	3.3	4.1	1.9	2.5
35-44 years	12.2	13.8	16.5	18.8	8.0	9.1
45-54 years	41.7	49.4	50.2	58.3	34.0	41.3
55-64 years	120.3	147.6	128.1	155.8	113.2	140.2
65-74 years	262.7	327.2	252.3	314.3	271.3	338.0
75-84 years	433.8	524.5	430.4	539.9	436.2	513.7
85 years +	431.8	445.2	486.8	507.9	406.4	416.2

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	0.1	—*	0.2	0.1	—*	0.1
1-4 years	0.1	0.1	0.0	0.0	0.1	0.0
5-14 years	0.1	0.1	0.1	0.1	0.1	0.1
15-24 years	0.4	0.5	0.3	0.3	0.4	0.3
25-34 years	1.6	1.9	1.4	1.4	1.5	1.2
35-44 years	4.6	5.7	3.5	4.0	5.1	2.9
45-54 years	13.9	16.7	11.2	11.8	14.7	9.0
55-64 years	38.5	45.0	32.4	33.5	40.2	27.2
65-74 years	90.8	104.0	79.8	81.4	95.8	69.2
75-84 years	181.1	207.2	163.6	168.4	198.6	148.0
85 years +	317.5	340.7	307.2	300.8	333.4	286.3

—\* Represents zero.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted heart disease death rate has been decreasing since 1979-1981. The AI/AN rate (318.8) for the three-year period of 1979-1981 was 22.6 percent lower than then U.S. all-races rate (412.1) for 1980. The AI/AN rate (231.1) for 2002-2004 was only .5 percent lower than the U.S. all-races rate (232.3) for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.48 Age-Adjusted Heart Disease Death Rates**

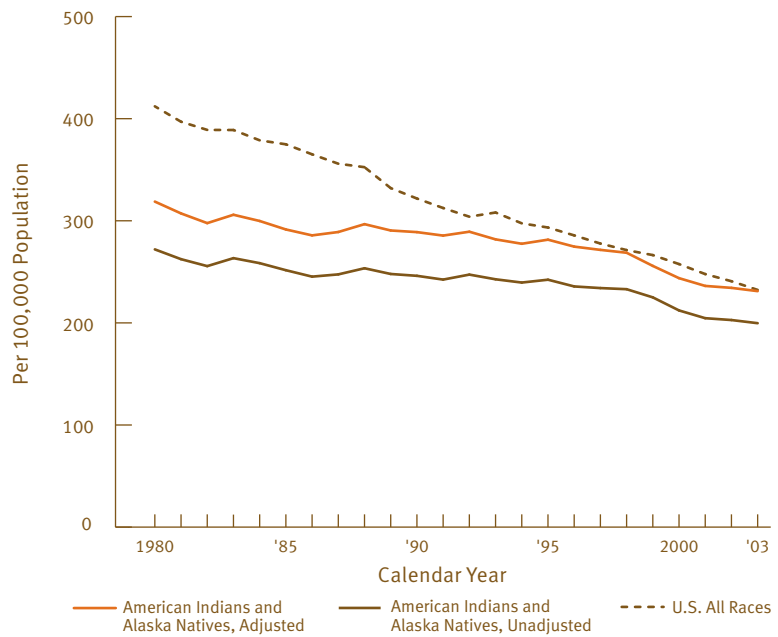


Table 4.48 Heart Disease Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate		Rate	Rate	U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2003-2005 (2004)	1,823	2,127						
2002-2004 (2003)	1,859	2,157	199.7	231.1	232.3	228.2	1.0	1.0
2001-2003 (2002)	1,768	2,066	202.8	234.3	240.8	236.7	1.0	1.0
2000-2002 (2001)	1,667	1,936	204.6	236.2	247.8	243.5	1.0	1.0
1999-2001 (2000)	1,607	1,861	212.2	243.8	257.6	253.4	0.9	1.0
1998-2000 (1999)	1,678	1,940	225.0	255.8	266.4	261.9	1.0	1.0
1997-1999 (1998)	1,684	1,964	233.0	268.7	271.3	266.8	1.0	1.0
1996-1998 (1997)	1,683	1,970	234.1	271.5	277.7	273.4	1.0	1.0
1995-1997 (1996)	1,600	1,877	235.7	274.7	285.7	281.4	1.0	1.0
1994-1996 (1995)	1,573	1,852	242.3	281.5	293.4	288.6	1.0	1.0
1993-1995 (1994)	1,515	1,754	239.5	277.5	297.5	292.9	0.9	0.9
1992-1994 (1993)	1,524	1,779	242.7	281.8	308.1	302.9	0.9	0.9
1991-1993 (1992)	1,484	1,764	247.3	289.3	304.0	299.0	1.0	1.0
1990-1992 (1991)	1,416	1,682	242.4	285.5	312.5	307.4	0.9	0.9
1989-1991 (1990)	1,349	1,599	246.1	288.9	321.8	317.0	0.9	0.9
1988-1990 (1989)	1,408	1,661	247.9	290.5	332.0	326.6	0.9	0.9
1987-1989 (1988)	1,359	1,600	253.5	296.7	352.5	347.6	0.8	0.9
1986-1988 (1987)	1,312	1,553	247.5	289.0	355.9	351.5	0.8	0.8
1985-1987 (1986)	1,190	1,389	245.3	285.7	365.1	360.9	0.8	0.8
1984-1986 (1985)	1,223	1,422	251.6	291.5	374.9	371.4	0.8	0.8
1983-1985 (1984)	1,206	1,405	258.5	299.8	378.8	376.0	0.8	0.8
1982-1984 (1983)	1,117	1,306	263.4	305.9	388.9	386.1	0.8	0.8
1981-1983 (1982)	1,102	1,285	255.6	297.7	389.0	387.4	0.8	0.8
1980-1982 (1981)	1,000	1,162	262.4	307.2	397.0	395.1	0.8	0.8
1979-1981 (1980)	1,096	1,300	272.0	318.8	412.1	409.4	0.8	0.8
1972-1974 (72-74)	2,275	2,689	283.2	335.1	491.5	490.0	0.7	0.7
1954-1956 (1955)			223.0		291.3	285.6		

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific heart disease death rate (2002-2004) for AI/AN males for age groups 5 and older was higher in comparison to AI/AN females. U.S. all-races rate (5,278.4) for both sexes was 39 percent higher than the AI/AN rate (3,789.1) and the U.S. white rate (5,363.5) was 42 percent higher than the AI/AN rate for 85 years and over. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.49 Heart Disease Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*

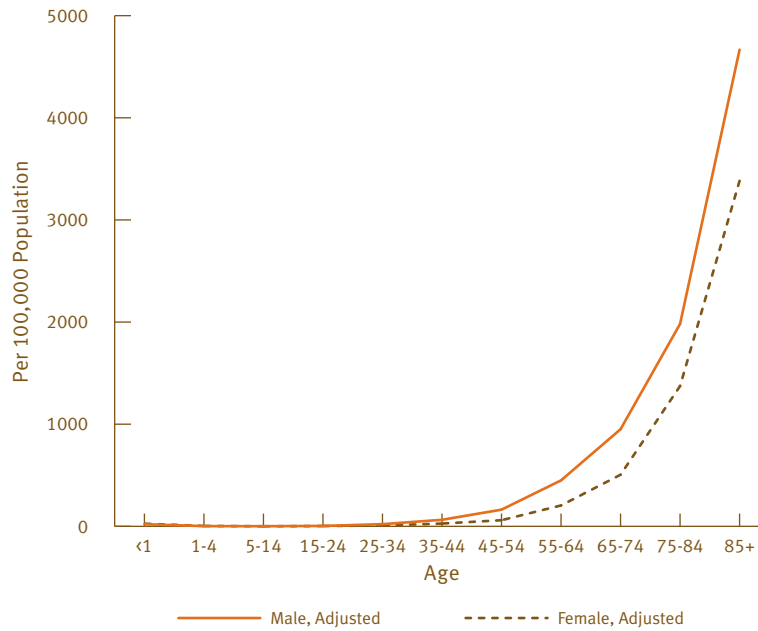


Table 4.49 Heart Disease Death Rates by Age and Sex

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	23.5 <sup>2</sup>	23.5 <sup>2</sup>	25.3 <sup>2</sup>	21.0 <sup>2</sup>	21.7	26.0
1-4 years	2.1	2.9	1.6	2.1	2.7	3.8
5-14 years	0.8	1.0	0.8	1.1	0.8	0.8
15-24 years	3.0	3.4	3.8	4.0	2.3	2.9
25-34 years	12.7	14.8	19.2	21.2	6.1	8.3
35-44 years	36.8	45.1	53.6	63.9	20.8	27.2
45-54 years	94.0	109.2	141.8	163.2	50.3	59.9
55-64 years	272.4	320.4	380.7	449.8	175.3	204.4
65-74 years	587.3	707.7	781.8	950.7	425.3	505.1
75-84 years	1,368.9	1,625.4	1,632.3	1,981.2	1,182.4	1,373.5
85 years +	3,531.4	3,789.1	4,211.6	4,666.7	3,216.6	3,383.1

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	11.0	12.1	9.8	8.8	9.4	8.1
1-4 years	1.2	1.1	1.3	1.0	0.8	1.1
5-14 years	0.6	0.7	0.2	0.5	0.6	0.4
15-24 years	2.7	3.4	2.1	0.2	0.3	0.2
25-34 years	8.2	10.5	5.7	3.7	9.0	4.4
35-44 years	30.7	42.8	18.6	27.2	39.1	15.1
45-54 years	92.5	136.2	50.2	82.9	125.3	41.1
55-64 years	233.2	331.7	141.9	216.5	313.2	125.2
65-74 years	585.0	785.3	417.5	561.8	761.1	3,923.0
75-84 years	1,611.1	2,030.3	1,331.1	1,603.6	2,030.1	1,315.2
85 years +	5,278.4	5,621.5	5,126.7	5,363.5	5,747.2	5,193.6

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>The adjusted rate for age less than one year is the same or lower than the unadjusted rate because the linked birth/infant death file (used to obtain the adjusted counts of infant deaths) had the same or fewer deaths for this cause than did the unadjusted mortality file (2002-2004 data).

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted cerebrovascular death rate has been decreasing during the last few years. The AI/AN rate (81.1) for 1979-1981 when compared to the AI/AN rate (50.9) 2002-2004 was 59.3 percent higher. The U.S. all-races rate (53.5) for 2003 is 1.1 times greater than the comparable AI/AN 2002-2004 rate (50.9). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.50 Age-Adjusted Cerebrovascular Diseases Death Rates**

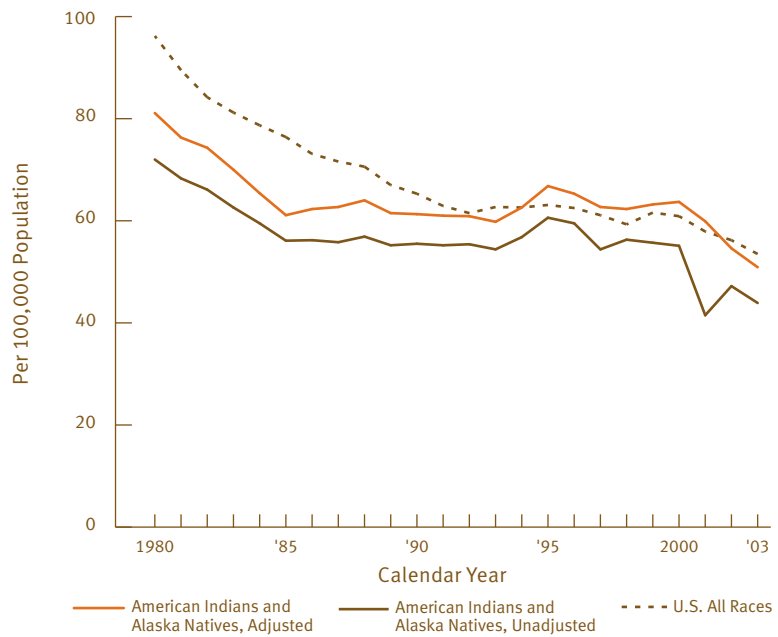




Table 4.50 Cerebrovascular Diseases Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1973-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
2003-2005 (2004)	389	455						
2002-2004 (2003)	368	429	43.9	50.9	53.5	51.4	1.0	1.0
2001-2003 (2002)	386	449	47.2	54.6	56.2	54.2	1.0	1.0
2000-2002 (2001)	416	482	51.5	59.9	57.9	55.8	1.0	1.1
1999-2001 (2000)	406	481	55.1	63.7	60.9	58.8	1.0	1.1
1998-2000 (1999)	387	442	55.7	63.2	61.6	59.6	1.0	1.1
1997-1999 (1998)	347	380	56.3	62.3	59.3	57.2	1.1	1.1
1996-1998 (1997)	348	380	54.4	62.7	61.1	59.0	1.0	1.1
1995-1997 (1996)	366	404	59.5	65.3	62.5	60.2	1.0	1.1
1994-1996 (1995)	358	402	60.6	66.8	63.1	60.7	1.1	1.1
1993-1995 (1994)	305	337	56.8	62.6	62.6	60.3	1.0	1.0
1992-1994 (1993)	305	335	54.4	59.8	62.7	60.4	1.0	1.0
1991-1993 (1992)	288	320	55.4	60.9	61.5	59.2	1.0	1.0
1990-1992 (1991)	294	329	55.2	61.0	62.9	60.3	1.0	1.0
1989-1991 (1990)	275	307	55.5	61.3	65.3	62.8	0.9	1.0
1988-1990 (1989)	270	301	55.2	61.5	67.0	64.2	0.9	1.0
1987-1989 (1988)	275	310	56.9	64.0	70.6	67.8	0.9	0.9
1986-1988 (1987)	282	327	55.8	62.7	71.6	69.1	0.9	0.9
1985-1987 (1986)	232	253	56.2	62.3	73.1	70.5	0.9	0.9
1984-1986 (1985)	254	276	56.1	61.1	76.4	73.7	0.8	0.8
1983-1985 (1984)	245	268	59.5	65.4	78.7	76.1	0.8	0.9
1982-1984 (1983)	236	268	62.6	70.0	81.2	78.5	0.9	0.9
1981-1983 (1982)	237	269	66.1	74.3	84.2	81.5	0.9	0.9
1980-1982 (1981)	241	268	68.3	76.3	89.5	86.7	0.9	0.9
1979-1981 (1980)	225	252	72.0	81.1	96.2	93.2	0.8	0.9
1972-1974 (72-74)	682	770	95.5	107.2	136.2	132.8	0.8	0.8

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

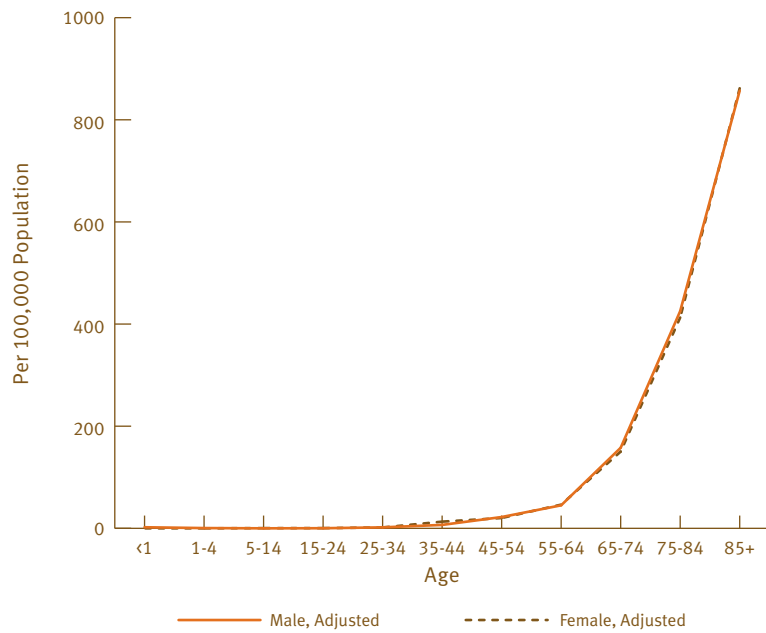
NOTE: The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific cerebrovascular diseases death rate (2002-2004) was relatively close for AI/AN males and females for each age group. The rate for both AI/AN genders increased with age beginning with the 15 to 24 year age group. U.S. all-races rate (1,370.1) for both sexes was 59 percent higher than the AI/AN (860.3) and the U.S. white rate (1,382.2) was 61 percent higher than the AI/AN rate for 85 years and over. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.51 Cerebrovascular Diseases Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*



**Table 4.51 Cerebrovascular Disease Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	2.1 <sup>2</sup>	1.1 <sup>2</sup>	2.1 <sup>2</sup>	2.1 <sup>2</sup>	2.2 <sup>2</sup>	—*
1-4 years	0.3	0.3	0.5	0.5	0.0	—*
5-14 years	0.2	0.2	—*	—*	—*	0.4
15-24 years	0.2	0.3	0.2	0.2	0.2	0.4
25-34 years	1.5	1.8	1.9	1.9	1.1	1.7
35-44 years	8.5	10.0	6.2	6.7	10.7	13.1
45-54 years	18.8	21.1	20.4	22.1	17.3	20.2
55-64 years	38.4	45.8	39.7	45.1	37.2	46.4
65-74 years	126.0	153.6	127.3	157.7	124.9	150.2
75-84 years	346.2	418.0	348.9	425.3	344.3	412.8
85 years +	810.0	860.3	793.7	857.1	817.6	861.7

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	2.5	2.8	2.2	2.0	2.0	2.0
1-4 years	0.3	0.3	0.3	0.2	—*	—*
5-14 years	0.2	0.2	0.1	0.2	0.2	0.1
15-24 years	0.5	0.5	0.5	0.5	0.5	0.4
25-34 years	1.5	1.6	1.4	1.2	1.3	1.2
35-44 years	5.5	5.8	5.3	4.2	4.4	4.0
45-54 years	15.0	16.7	13.4	11.4	12.9	10.0
55-64 years	35.6	40.8	30.9	29.4	33.3	25.8
65-74 years	112.9	127.8	100.5	103.7	117.3	92.1
75-84 years	410.7	431.4	396.8	403.0	422.4	389.9
85 years +	1,370.1	1,236.0	1,429.4	1,382.2	1,247.0	1,442.1

—\* Represents zero.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>The adjusted rate for age less than one year is the same or *lower* than the unadjusted rate because the linked birth/infant death file (used to obtain the adjusted counts of infant deaths) had the same or *fewer* deaths for this cause than did the unadjusted mortality file (2002-2004 data).

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted Alzheimer's disease rate (1.0) for years 1979-1981 increased to 11.6 for 2002-2004. The U.S. all-races rate (21.4) for 2003 is 1.8 times the 2002-2004 rate (11.6). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.52 Age-Adjusted Alzheimer's Disease Death Rates**

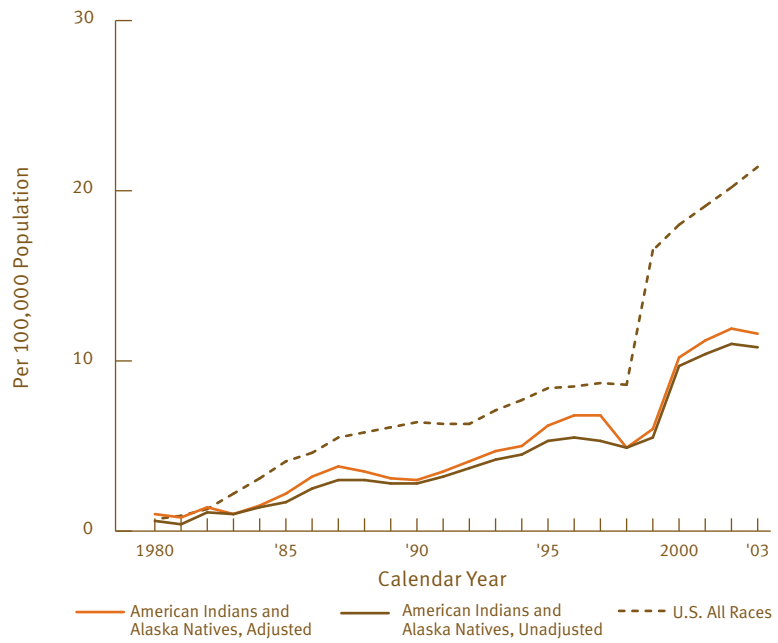


Table 4.52 Alzheimer's Disease Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1980-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
2003-2005 (2004)	67	71						
2002-2004 (2003)	82	89	10.8	11.6	21.4	22.2	0.5	0.5
2001-2003 (2002)	76	83	11.0	11.9	20.2	21.1	0.6	0.6
2000-2002 (2001)	61	64	10.4	11.2	19.1	19.8	0.6	0.6
1999-2001 (2000)	58	63	9.7	10.2	18.0	18.8	0.6	0.5
1998-2000 (1999)	54	55	5.5	6.0	16.5	17.2	0.4	0.3
1997-1999 (1998)	17	20	4.9	4.9	8.6	8.9	0.6	0.6
1996-1998 (1997)	18	24	5.3	6.8	8.7	9.1	0.8	0.7
1995-1997 (1996)	18	24	5.5	6.8	8.5	8.8	0.8	0.8
1994-1996 (1995)	18	19	5.3	6.2	8.4	8.7	0.7	0.7
1993-1995 (1994)	13	15	4.5	5.0	7.7	8.0	0.6	0.6
1992-1994 (1993)	12	14	4.2	4.7	7.1	7.4	0.7	0.6
1991-1993 (1992)	12	13	3.7	4.1	6.3	6.6	0.7	0.6
1990-1992 (1991)	8	9	3.2	3.5	6.3	6.6	0.6	0.5
1989-1991 (1990)	8	9	2.8	3.0	6.4	6.6	0.5	0.5
1988-1990 (1989)	8	8	2.8	3.1	6.1	6.4	0.5	0.5
1987-1989 (1988)	7	9	3.0	3.5	5.8	6.1	0.6	0.6
1986-1988 (1987)	10	13	3.0	3.8	5.5	5.7	0.7	0.7
1985-1987 (1986)	9	12	2.5	3.2	4.6	4.9	0.7	0.7
1984-1986 (1985)	3	4	1.7	2.2	4.1	4.3	0.5	0.5
1983-1985 (1984)	2	2	1.4	1.5	3.1	3.3	0.5	0.5
1982-1984 (1983)	4	4	1.0	1.0	2.2	2.4	0.5	0.4
1981-1983 (1982)	—*	—*	1.1	1.4	1.3	1.4	1.1	1.0
1980-1982 (1981)	2	4	0.4	0.8	0.9	0.9	0.9	0.9
1979-1981 (1980)	1	1	0.6	1.0	0.7	0.7	1.4	1.4
(1979)	2	2						

—\*Represents zero.

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

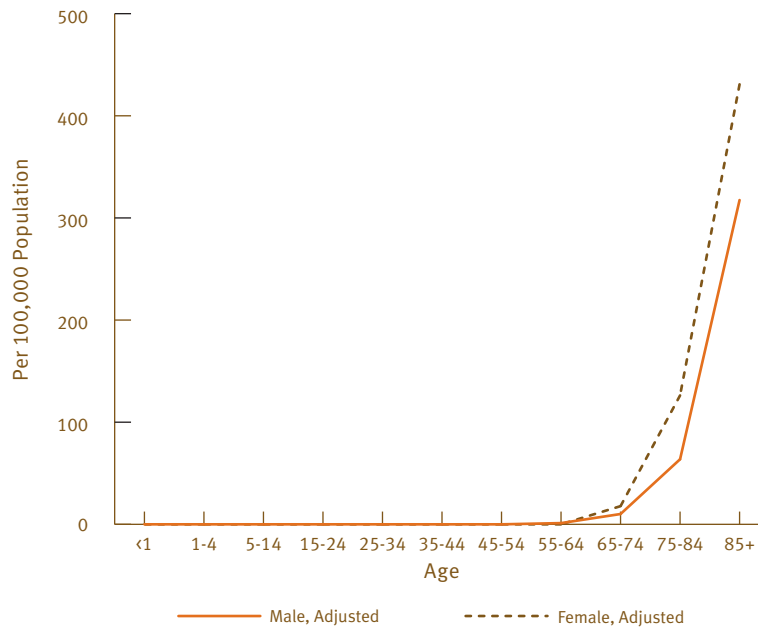
NOTE: Alzheimer's death data are introduced in 1979 for the IHS service area. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific Alzheimer's death rate (2002-2004) for AI/AN females was higher than AI/AN males beginning in age group 65 to 74 years. In age group 85 years and over, the AI/AN female rate (430.8) was 106.4 percent lower than the U.S. all-races female rate (889.0) and over 114.6 percent lower than U.S. white female rate (924.3). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.53 Alzheimer's Diseases Death Rates by Age and Sex**

*American Indians and Alaska Natives (2002-2004)*



**Table 4.53 Alzheimer's Disease Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	—*	—*	—*	—*	—*	—*
15-24 years	—*	—*	—*	—*	—*	—*
25-34 years	—*	—*	—*	—*	—*	—*
35-44 years	—*	—*	—*	—*	—*	—*
45-54 years	—*	—*	—*	—*	—*	—*
55-64 years	0.6	0.6	1.2	1.2	—*	—*
65-74 years	13.3	14.3	10.1	10.1	16.0	17.8
75-84 years	86.5	100.3	56.0	63.7	108.1	126.2
85 years +	384.9	395.0	306.9	317.5	421.1	430.8

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	—*	—*	—*	—*	—*	—*
15-24 years	—*	—*	—*	—*	—*	—*
25-34 years	—*	—*	—*	—*	—*	—*
35-44 years	—*	—*	—*	—*	—*	—*
45-54 years	0.2	0.2	0.2	0.2	0.2	0.2
55-64 years	2.0	1.8	2.1	2.2	1.9	2.4
65-74 years	20.9	20.2	21.5	21.7	20.8	22.5
75-84 years	164.4	147.6	175.7	170.7	152.4	183.1
85 years +	802.4	606.5	889.0	834.0	630.3	924.3

—\* Represents zero.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The 2002-2004 AI/AN age-adjusted gastrointestinal disease death rate (0.8) has decreased 91 percent since the 1972-1974 rate of 9.3 deaths per 100,000 population. The 2002-2004 rate (0.8 deaths per 100,000 population) is 38 percent lower than the U.S. all-races rate of 1.3 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 4.54** Age-Adjusted Gastrointestinal Disease Death Rates

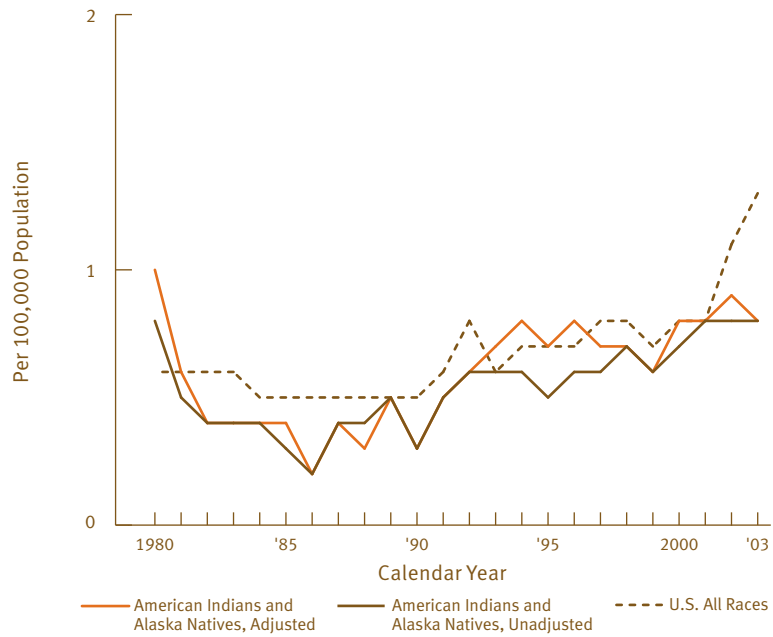




Table 4.54 Gastrointestinal Disease Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2002-2004 (2003)	7	7	0.8	0.8	1.3	1.4	0.6	0.6
2001-2003 (2002)	7	8	0.8	0.9	1.1	1.2	0.8	0.8
2000-2002 (2001)	7	8	0.8	0.8	0.8	0.9	1.0	0.9
1999-2001 (2000)	5	5	0.7	0.8	0.8	0.8	1.0	1.0
1998-2000 (1999)	4	5	0.6	0.6	0.7	0.7	0.9	0.9
1997-1999 (1998)	6	5	0.7	0.7	0.8	0.8	0.9	0.9
1996-1998 (1997)	7	9	0.6	0.7	0.8	0.8	0.9	0.9
1995-1997 (1996)	4	5	0.6	0.8	0.7	0.7	1.1	1.1
1994-1996 (1995)	6	8	0.5	0.7	0.7	0.7	1.0	1.0
1993-1995 (1994)	4	6	0.6	0.8	0.7	0.6	1.1	1.3
1992-1994 (1993)	4	5	0.6	0.7	0.6	0.6	1.2	1.2
1991-1993 (1992)	5	5	0.6	0.6	0.8	0.6	0.8	1.0
1990-1992 (1991)	3	3	0.5	0.5	0.6	0.5	0.8	1.0
1989-1991 (1990)	4	4	0.3	0.3	0.5	0.5	0.6	0.6
1988-1990 (1989)	1	1	0.5	0.5	0.5	0.5	1.0	1.0
1987-1989 (1988)	5	5	0.4	0.3	0.5	0.5	0.6	0.6
1986-1988 (1987)	1	1	0.4	0.4	0.5	0.5	0.8	0.8
1985-1987 (1986)	4	5	0.2	0.2	0.5	0.5	0.4	0.4
1984-1986 (1985)	4	4	0.3	0.4	0.5	0.5	0.8	0.8
1983-1985 (1984)	2	2	0.4	0.4	0.5	0.5	0.8	0.8
1982-1984 (1983)	3	3	0.4	0.4	0.6	0.6	0.7	0.7
1981-1983 (1982)	4	4	0.4	0.4	0.6	0.5	0.7	0.8
1980-1982 (1981)	3	3	0.5	0.6	0.6	0.6	1.0	1.0
1979-1981 (1980)	5	7	0.8	1.0	0.6	0.6	1.7	1.7
1972-1974 (72-74)	123	131	8.6	9.3	2.7	2.5	3.4	3.7
1954-1956 (1955)	165		15.4		3.6	3.1		

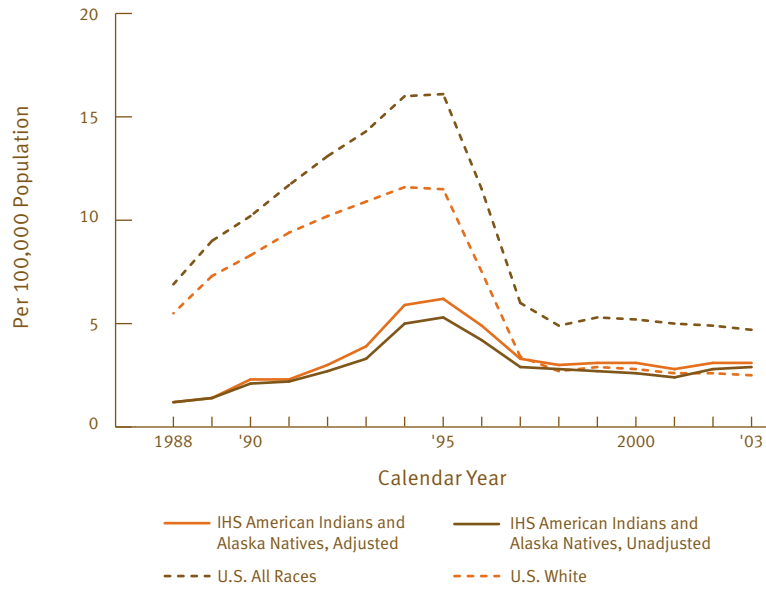
<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The AI/AN age-adjusted HIV disease death rate (1.2) for years 1987-1989 increased to 3.1 for 2002-2004. The U.S. all-races rate (4.7) for 2003 is 1.5 times greater than the 2002-2004 rate (3.1). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on the state death certificates.

**Chart 4.55 Human Immunodeficiency Virus (HIV) Disease Death Rates**



**Table 4.55 Human Immunodeficiency Virus (HIV) Disease Deaths and Death Rates**

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1988-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES Rate	U.S. WHITE Rate	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>2</sup>	Unadjusted	Adjusted <sup>2</sup>				
(2004)	45	50						
2002-2004 (2003)	46	51	2.9	3.1	4.7	2.5	0.7	1.2
2001-2003 (2002)	39	41	2.8	3.1	4.9	2.6	0.6	1.2
2000-2002 (2001)	40	48	2.4	2.8	5.0	2.6	0.6	1.1
1999-2001 (2000)	30	37	2.6	3.1	5.2	2.8	0.6	1.1
1998-2000 (1999)	49	55	2.7	3.0	5.3	2.9	0.6	1.0
1997-1999 (1998)	33	41	2.8	3.1	4.9	2.7	0.6	1.1
1996-1998 (1997)	27	30	2.9	3.3	6.0	3.4	0.6	1.0
1995-1997 (1996)	52	59	4.2	4.9	11.5	7.5	0.4	0.7
1994-1996 (1995)	84	100	5.3	6.2	16.1	11.5	0.4	0.5
1993-1995 (1994)	62	75	5.0	5.9	16.0	11.6	0.4	0.5
1992-1994 (1993)	39	45	3.3	3.9	14.3	10.9	0.3	0.4
1991-1993 (1992)	20	21	2.7	3.0	13.1	10.2	0.2	0.3
1990-1992 (1991)	38	42	2.2	2.3	11.7	9.4	0.2	0.2
1989-1991 (1990)	16	17	2.1	2.3	10.2	8.3	0.2	0.3
1988-1990 (1989)	16	16	1.4	1.4	9.0	7.3	0.2	0.2
1987-1989 (1988)	13	13	1.2	1.2	6.9	5.5	0.2	0.2
(1987)	8	10						

<sup>1</sup>Adjustment factors are only available for the AI/AN population residing in the IHS service area, for that reason, AI/AN numbers and rates for the entire United States (shown above) are based on unadjusted numbers of deaths.

<sup>2</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

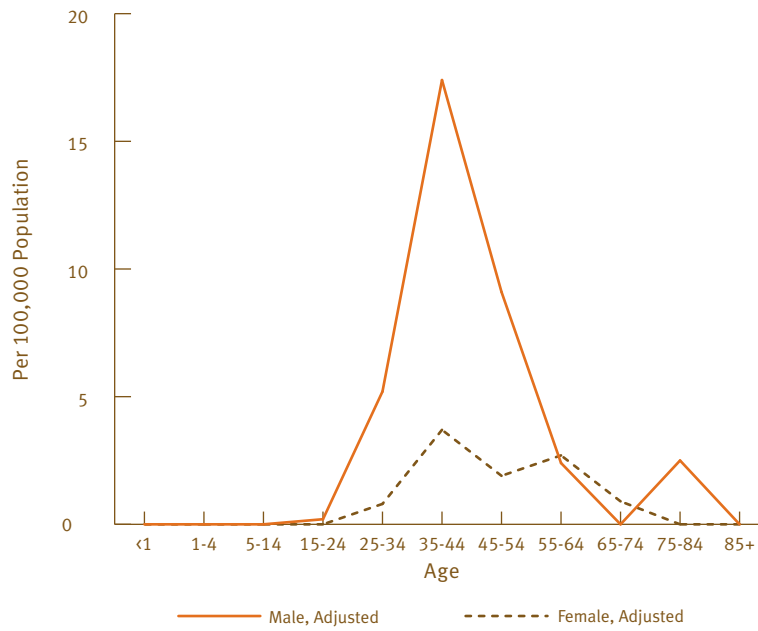
NOTE: Includes cause of death with ICD-9 codes 042-044, first classified in 1987 and ICD10 codes B20-B24 beginning in 1999. For all years portrayed above the AI/AN death rate columns present data for the three-year period specified and are age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The age-specific HIV death rate for the three-year period 2002-2004 for AI/AN males was greater for age group 35-44 years when reporting deaths in comparison to AI/AN females. In this age group, the HIV rate for AI/AN males (17.4) was 370 percent higher than the AI/AN female rate (3.7). These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

Chart 4.56 Human Immunodeficiency Virus (HIV) Disease Death Rates by Age and Sex

*American Indians and Alaska Natives (2002-2004)*



**Table 4.56 Human Immunodeficiency Virus (HIV) Disease Death Rates by Age and Sex**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003 (Rate per 100,000 Population)*

Age Group	AMERICAN INDIAN AND ALASKA NATIVE					
	Both Sexes		Male		Female	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
Under 1 year	—*	—*	—*	—*	—*	—*
1-4 years	—*	—*	—*	—*	—*	—*
5-14 years	—*	—*	—*	—*	—*	—*
15-24 years	0.1	0.1	0.2	0.2	—*	—*
25-34 years	2.5	3.0	4.4	5.2	0.6	0.8
35-44 years	9.3	10.4	15.1	17.4	3.7	3.7
45-54 years	5.4	5.4	9.1	9.1	1.9	1.9
55-64 years	2.6	2.6	2.4	2.4	2.7	2.7
65-74 years	0.5	0.5	—*	—*	0.9	0.9
75-84 years	1.1	1.1	2.5	2.5	—*	—*
85 years +	—*	—*	—*	—*	—*	—*

Age Group	U.S. ALL RACES			U.S. WHITE		
	Both Sexes	Male	Female	Both Sexes	Male	Female
Under 1 year	0.1	0.1	0.2	0.0	0.1	—*
1-4 years	0.0	0.0	—*	0.0	0.0	—*
5-14 years	0.1	0.1	0.1	0.0	0.0	0.0
15-24 years	0.4	0.4	0.4	0.2	0.2	0.1
25-34 years	4.0	5.1	2.8	2.0	3.0	0.9
35-44 years	12.0	17.5	6.5	6.8	11.0	2.5
45-54 years	10.9	17.2	4.0	5.8	10.0	1.7
55-64 years	5.4	9.1	2.1	2.9	5.0	0.9
65-74 years	2.4	4.4	1.0	1.2	2.1	0.4
75-84 years	0.7	1.5	0.3	0.4	0.9	0.1
85 years +	0.3	0.8	0.1	0.2	0.5	0.1

—\* Represents zero.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Adjusted to compensate for misreporting of AI/AN race on state death certificates.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>. April 1995.

The AI/AN age-adjusted asthma death rate has increased steadily from 1979-1981 to 2001-2003 (0.9 to 2.3 respectively). The 2002-2004 rate (1.8) is 1.3 times lower than the 2001-2003 rate (2.3) and 1.3 times higher than the U.S. all-races rate (1.4). The AI/AN rates have been adjusted for misreporting of race on the state death certificates.

**Chart 4.57** Age-Adjusted Asthma Death Rates

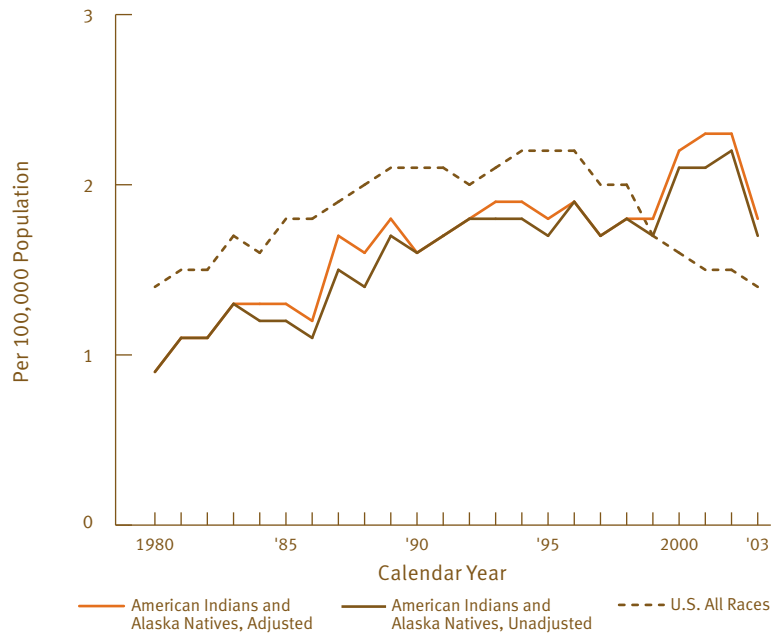


Table 4.57 Asthma Deaths and Death Rates

American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1973-2003  
(Age-Adjusted Rate per 100,000 Population)

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES Rate	U.S. WHITE Rate	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2003-2005 (2004)	12	14						
2002-2004 (2003)	26	27	1.7	1.8	1.4	1.1	1.3	1.6
2001-2003 (2002)	22	25	2.2	2.3	1.5	1.2	1.5	1.9
2000-2002 (2001)	24	25	2.1	2.3	1.5	1.2	1.5	1.9
1999-2001 (2000)	22	26	2.1	2.2	1.6	1.3	1.4	1.7
1998-2000 (1999)	18	18	1.7	1.8	1.7	1.4	1.1	1.3
1997-1999 (1998)	13	13	1.8	1.8	2.0	1.7	0.9	1.1
1996-1998 (1997)	22	23	1.7	1.7	2.0	1.7	0.9	1.0
1995-1997 (1996)	17	19	1.9	1.9	2.2	1.8	0.9	1.1
1994-1996 (1995)	18	18	1.7	1.8	2.2	1.9	0.8	0.9
1993-1995 (1994)	14	14	1.8	1.9	2.2	1.9	0.9	1.0
1992-1994 (1993)	18	21	1.8	1.9	2.1	1.8	0.9	1.1
1991-1993 (1992)	12	12	1.8	1.8	2.0	1.8	0.9	1.0
1990-1992 (1991)	12	12	1.7	1.7	2.1	1.9	0.8	0.9
1989-1991 (1990)	14	14	1.6	1.6	2.1	1.8	0.8	0.9
1988-1990 (1989)	10	14	1.7	1.8	2.1	1.8	0.9	1.0
1987-1989 (1988)	16	18	1.4	1.6	2.0	1.7	0.8	0.9
1986-1988 (1987)	8	9	1.5	1.7	1.9	1.7	0.9	1.0
1985-1987 (1986)	10	12	1.1	1.2	1.8	1.5	0.7	0.8
1984-1986 (1985)	5	5	1.2	1.3	1.8	1.6	0.7	0.8
1983-1985 (1984)	9	10	1.2	1.3	1.6	1.4	0.8	0.9
1982-1984 (1983)	7	7	1.3	1.3	1.7	1.5	0.8	0.9
1981-1983 (1982)	5	5	1.1	1.1	1.5	1.3	0.7	0.8
1980-1982 (1981)	4	4	1.1	1.1	1.5	1.3	0.7	0.8
1979-1981 (1980)	6	6	0.9	0.9	1.4	1.3	0.6	0.7
1972-1974 (72-72)	11	11	1.2	1.2	1.4	1.2	0.9	1.0

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Data from 1972 and forward are drawn from specific counties in the IHS service area. The AI/AN death rate columns present data for the three-year period specified and age-adjusted to the 2000 standard population; the U.S. all races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The AI/AN age-adjusted mortality rate (1,216.7) for all causes of death was 1.2 times higher for years 1979-1981 as compared to the 2002-2004 three year rate (1,027.1). The AI/AN for 2002-2004 (1,027.1) was 1.2 times greater than the comparable U.S. all-races rate (832.7) for 2003. The AI/AN rates have been adjusted for misreporting of race on the state death certificates.

**Chart 4.58 Age-Adjusted Mortality for All Causes Death Rates**

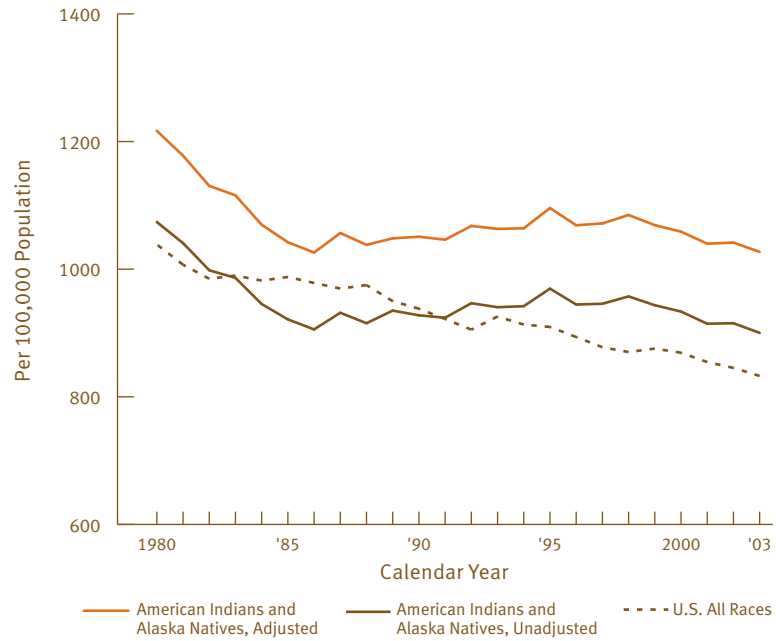




Table 4.58 Mortality for All Causes Deaths and Death Rates

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1973-2003  
(Age-Adjusted Rate per 100,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate		
2003-2005 (2004)	9,688	11,203						
2002-2004 (2003)	9,673	11,114	900.2	1,027.1	832.7	817.1	1.2	1.3
2001-2003 (2002)	9,284	10,702	915.3	1,041.7	845.3	829.0	1.2	1.3
2000-2002 (2001)	8,837	10,170	914.5	1,039.9	854.5	836.5	1.2	1.2
1999-2001 (2000)	8,314	9,547	933.6	1,058.8	869.0	849.8	1.2	1.2
1998-2000 (1999)	8,458	9,714	943.5	1,069.0	875.6	854.6	1.2	1.3
1997-1999 (1998)	8,055	9,245	957.3	1,084.9	870.1	848.9	1.2	1.3
1996-1998 (1997)	7,891	9,057	945.8	1,071.7	877.7	855.4	1.2	1.3
1995-1997 (1996)	7,562	8,662	944.6	1,068.8	893.7	868.7	1.2	1.2
1994-1996 (1995)	7,430	8,462	969.5	1,095.7	909.5	882.0	1.2	1.2
1993-1995 (1994)	7,151	8,180	942.0	1,064.1	913.2	885.3	1.2	1.2
1992-1994 (1993)	7,011	8,017	940.4	1,063.1	925.8	896.8	1.1	1.2
1991-1993 (1992)	6,731	7,720	946.7	1,067.8	905.3	877.5	1.2	1.2
1990-1992 (1991)	6,487	7,434	923.9	1,046.2	921.9	893.0	1.1	1.2
1989-1991 (1990)	6,211	7,109	927.7	1,050.8	938.0	909.2	1.1	1.2
1988-1990 (1989)	6,386	7,297	935.1	1,048.3	949.9	919.8	1.1	1.1
1987-1989 (1988)	6,072	6,938	915.3	1,038.1	975.1	947.2	1.1	1.1
1986-1988 (1987)	5,878	6,720	931.7	1,056.6	969.6	943.2	1.1	1.1
1985-1987 (1986)	5,563	6,366	905.6	1,026.0	978.4	952.8	1.0	1.1
1984-1986 (1985)	5,448	6,218	921.3	1,042.2	987.8	963.4	1.1	1.1
1983-1985 (1984)	5,346	6,101	945.4	1,069.6	982.1	959.4	1.1	1.1
1982-1984 (1983)	5,247	5,994	986.3	1,115.7	990.0	967.4	1.1	1.2
1981-1983 (1982)	5,291	6,014	998.3	1,130.5	984.9	963.5	1.1	1.2
1980-1982 (1981)	5,181	5,889	1,040.8	1,177.9	1,007.0	984.0	1.2	1.2
1979-1981 (1980)	5,407	6,151	1,073.9	1,216.7	1,038.7	1,012.5	1.2	1.2
1972-1974 (72-72)	13,472	15,035	1,281.1	1,433.8	1,209.9	1,180.8	1.2	1.2

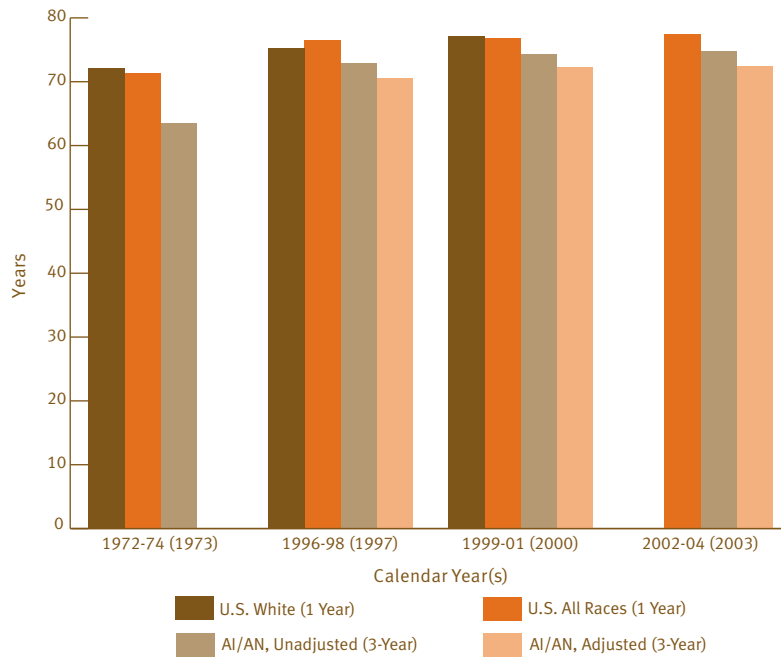
<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Data from 1972 and forward are drawn from specific counties in the IHS service area. The AI/AN death rate columns present data for the three-year period specified and age-adjusted to the 2000 standard population; the U.S. all-races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN deaths for the one-year period specified.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

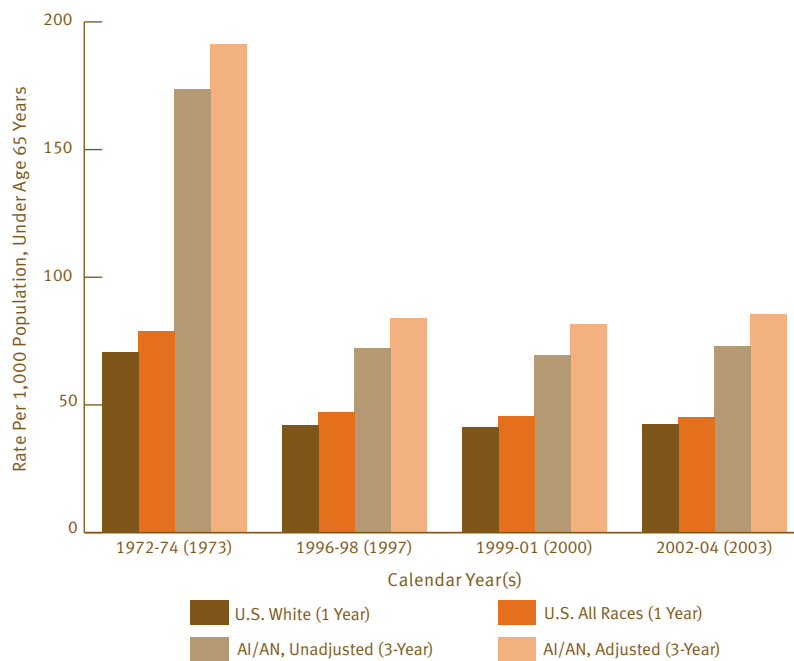
Life expectancy at birth for American Indians and Alaska Natives (AI/AN) for the three-year period of 1972-1974 was 63.6 years. By 2002-2004 life expectancy increased to 72.5 years; 5 years less than the U.S. all-races life expectancy of 77.5 years for 2003. The 2002-2004 AI/AN life expectancy of 72.5 years is 5.5 years less than for the U.S. whites life expectancy of 78.0 years for 2003. The AI/AN rates have been adjusted for misreporting of race on the state death certificates.

**Chart 4.59 Life Expectancy at Birth**



The years of potential life lost (YPLL) rate for American Indians and Alaska Natives (AI/AN) for the three-year period 2002-2004 is 85.5; less than half of the YPLL rate (191.3) was for 1972-1974. The 2002-2004 AI/AN YPLL rate is 90 percent greater than the U.S. all-races YPLL rate of 45.1 for 2003 and 102 percent greater than the 2003 YPLL rate of 42.3 for U.S. whites. The AI/AN rates have been adjusted for misreporting of race on the state death certificates.

**Chart 4.60 Years of Potential Life Lost (YPLL)**



The AI/AN age-adjusted death rate for all causes of death decreased 28 percent from the rate of 1,433.7 for the three-year period 1972-1974 to the rate of 1,027.1 for years 2002-2004. U.S. all-races rate decreased 31 percent from 1973 to 2003, whereas U.S. white rate decreased 32 percent for the same time period. The AI/AN 2002-2004 rate (1,027.1) is 23 percent higher than the 2003 U.S. all-races rate (832.7) and 26 percent higher than U.S. white rate (817.0). The AI/AN rates have been adjusted for misreporting of race on the state death certificates.

**Chart 4.61** Age-Adjusted Death Rate

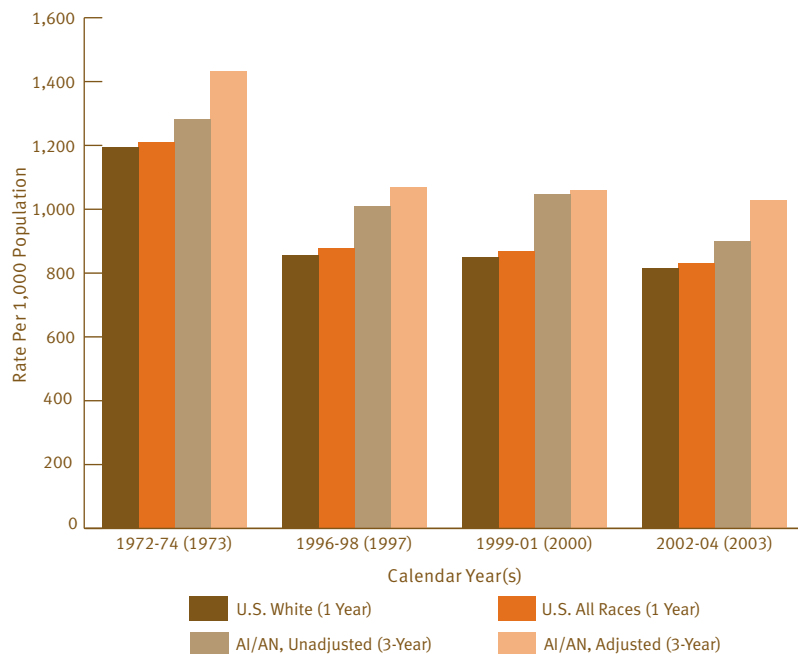


Table 4.59 Overall Measures of Indian Health

*IHS Service Area Population Compared with the U.S. All-Races and U.S. White Populations*

	Life Expectancy At Birth (Years)		Years of Potential Life Lost (Rate per 1,000 Population <sup>4</sup> )		Age-Adjusted Death Rate (per 100,000 Population)	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
<b><i>IHS Service Area:</i></b>						
2002-2004	74.8	72.5	73.0	85.5 <sup>2</sup>	900.2	1,027.1
1999-2001	74.4	72.3	69.4	81.8 <sup>2</sup>	1,046.9	1,059.8
1996-1998	72.9	70.6	72.1	84.0 <sup>2</sup>	1,010.3	1,070.8
1972-1974	63.6	—	173.7 <sup>3</sup>	191.3 <sup>3</sup>	1,281.1	1,433.7
<b><i>U.S. All Races:</i></b>						
2003	77.5		45.1		832.7	
2000	76.9		45.7		869.0	
1997	76.5		47.1		878.1	
1973	71.4		78.9		1,209.9	
<b><i>U.S. White:</i></b>						
2003	78.0		42.3		817.0	
2000	77.4		41.4		849.8	
1997	77.2		42.2		855.7	
1973	72.2		70.8		1,193.3 <sup>5</sup>	
<b><i>RATIO: IHS to U.S. All Races:</i></b>						
2002-2004 (2003)	0.97	0.94	1.62	1.89	1.08	1.23
1999-2001 (2000)	0.97	0.94	1.52	1.79	1.20	1.22
1996-1998 (1997)	0.95	0.92	1.53	1.78	1.15	1.22
1972-1974 (1973)	0.89		2.20	2.42	1.06	1.18
<b><i>RATIO: IHS to U.S. White:</i></b>						
2002-2004 (2003)	0.96	0.93	1.73	2.02	1.10	1.26
1999-2001 (2000)	0.96	0.93	1.68	1.98	1.23	1.25
1996-1998 (1997)	0.94	0.91	1.71	1.99	1.18	1.25
1972-1974 (1973)	0.88	—	2.45	2.70	1.07	1.20

— Data not available. Adjusted data for Life Expectancy for the IHS Service Area population is unavailable for 1972-1974.

<sup>1</sup>Adjusted – specifies rate or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>Years of Potential Life Lost (YPLL) is a mortality indicator which measures the burden of premature deaths. YPLL is presented for persons under 65 years of age because the average life expectancy for AI/AN is over 65 years. The number of deaths for each age group is multiplied by the years of life lost, calculated as the difference between age 65 years and the midpoint of the age group. This calculation was performed through the use of age groups under one, one to four, and five-year age groups through 55 to 64 years. Years of potential life lost is derived by summing years of life lost over all age groups.

<sup>3</sup>Years of Potential Life Lost (YPLL) is a mortality indicator which measures the burden of premature deaths. YPLL is presented for persons under 65 years of age because the average life expectancy for AI/AN is over 65 years. The number of deaths for each age group is multiplied by the years of life lost, calculated as the difference between age 65 years and the midpoint of the age group. This calculation was performed through the use of age groups under one, one to four, and 10-year age groups through 55 to 64 years. Years of potential life lost is derived by summing years of life lost over all age groups.

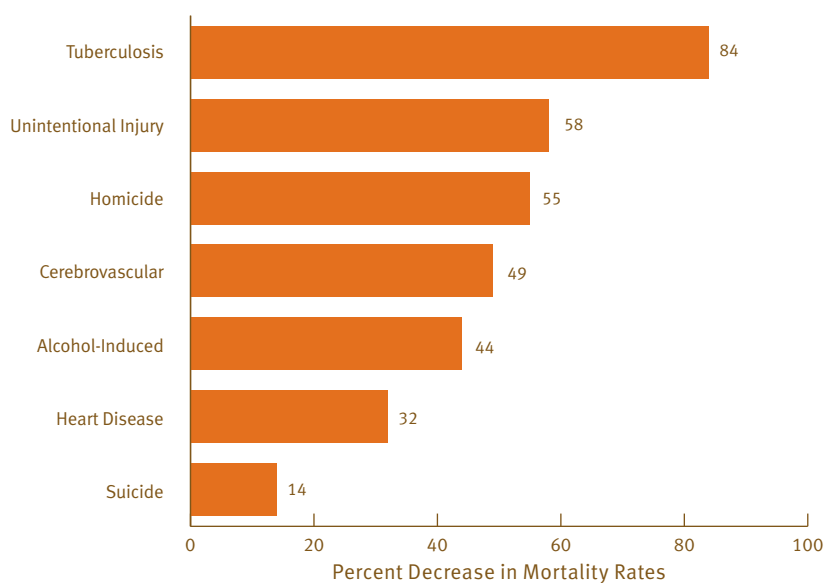
<sup>4</sup>Rate per 1,000 population under 65 years of age.

<sup>5</sup>US white rate is based on the year 1970 not 1973.

The health status of AI/AN has experienced major improvements since 1972-1974. Some of the positive changes are evident from the lower mortality rates. For example, tuberculosis mortality has declined 84 percent and deaths due to unintentional injuries have declined 58 percent. Additional reduced age-adjusted mortality rates include: homicide (55 percent), cerebrovascular (49 percent), alcohol-induced (44 percent), and heart disease (32 percent).

**Chart 4.62 IHS Program Accomplishments Since 1973 (Adjusted Mortality Data)**

*Selected Mortality Rates*



**Table 4.62 IHS Program Accomplishments, IHS Service Area**

Health Improvements	Rate Adjusted <sup>1</sup> (1972-1974)	Rate Adjusted <sup>1</sup> (1996-1998)	2002-2004 RATE		PERCENT DECREASE TO 2002-2004	
			Unadjusted	Adjusted <sup>1</sup>	Adjusted <sup>1</sup> (from 1972-1974)	Adjusted <sup>1</sup> (from 1996-1998)
<i>Death Rates</i>						
Alcohol-Induced <sup>2</sup>	77.5	45.0	38.0	43.6	-43.7	-3.1
Cerebrovascular	99.4	62.7	43.9	50.9	-48.8	-18.8
Diabetes	47.2	77.1	61.9	74.2	57.2 <sup>4</sup>	-3.8
Heart disease	339.4	271.5	199.7	231.1	-31.9	-14.9
Human immunodeficiency virus (HIV) disease <sup>3</sup>	1.2	3.3	2.9	3.1	158.3	-6.1
Homicide	26.8	12.6	10.5	12.1	-54.9	-4.0
Malignant neoplasm <sup>3</sup>	149.6	187.0	159.2	180.7	20.8 <sup>4</sup>	-3.4
Suicide	20.8	17.9	15.7	17.9	-13.9	0.0
Tuberculosis	10.5	2.0	1.7	1.7	-83.8	-15.0
Unintentional injuries	223.2	97.1	82.1	94.8	-57.5	-2.4

<sup>1</sup>Adjusted – specifies a rate or percent adjusted to compensate for misreporting of AI/AN race on state death certificates.

<sup>2</sup>Rate of alcohol-induced deaths represents the 1979-1981 three year period. The percent change represents change from 1979-1981 to 1968-1998 and change to 2002-2004.

<sup>3</sup>Rate of HIV deaths represents the 1987-1989 three year period. The percent change represents an increased AI/AN death rate from 1987-1989 to 1996-1998. This death rate then decreased from 1996-1998 to 2002-2004 for AI/ANs.

<sup>4</sup>Diabetes and malignant neoplasm deaths increased for AI/ANs from 1972-1974 to 1996-1998 but then decreased from 1996-1998 to the 2002-2004 three year period.

NOTE: ICD-10 codes were introduced in 1999. Comparability ratios have been applied to the 1996-1998 age-adjusted data. ICD-9 codes were introduced in 1979. Comparability ratios have been applied to the 1972-1974 age-adjusted rate. All rates have been adjusted to the 2000 standard population.