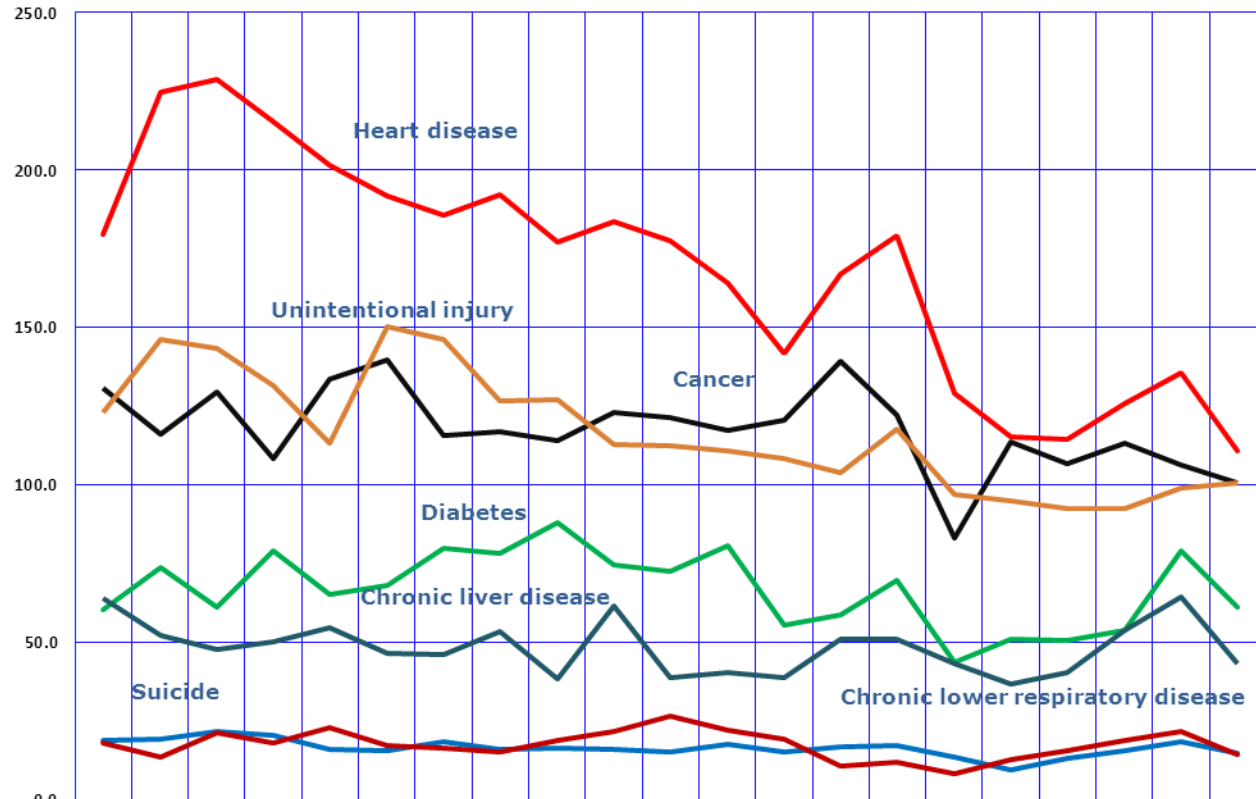


## **COMPARATIVE CAUSE-SPECIFIC MORTALITY**

**5.13**  
**Temporal Changes<sup>a</sup> in the Selected Leading Causes of Death among American Indian Residents of Arizona, 1991-2011**



	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Heart disease	179.5	224.7	228.7	215.5	201.5	191.9	185.9	192.4	177.0	183.8	177.7	164.0	141.9	166.9	179.1	129.4	115.2	114.6	125.8	135.9	111.1
Cancer	130.9	116.1	129.8	108.5	133.5	139.8	116.0	117.0	114.1	123.0	121.7	117.6	120.7	139.3	122.2	83.1	113.9	106.7	113.3	106.4	100.8
Unintentional injury	123.3	146.3	143.4	131.5	113.2	150.5	146.4	126.8	127.0	113.1	112.7	111.0	108.6	103.9	117.8	97.2	95.0	92.6	92.6	99.2	100.6
Diabetes	60.4	74.1	61.4	79.3	65.2	68.3	80.2	78.4	88.3	74.6	72.8	80.8	55.8	59.0	69.9	43.9	51.1	50.8	54.2	79.3	61.3
Chronic liver disease	64.0	52.5	48.0	50.3	54.9	46.7	46.3	53.5	38.5	61.7	39.1	40.5	38.8	51.0	51.2	43.6	36.8	40.7	54.0	64.6	43.6
Suicide	18.9	19.6	21.7	20.8	16.3	15.9	18.7	16.1	16.6	16.2	15.4	17.9	15.2	17.0	17.5	13.7	9.8	13.5	15.9	18.7	14.9
Chronic lower respiratory disease	18.3	13.6	21.4	18.4	22.9	17.3	16.7	15.2	19.2	21.9	26.8	22.3	19.4	10.8	12.0	8.4	13.0	15.8	19.2	21.7	14.4

Notes: <sup>a</sup> Based on age-adjusted mortality rates: Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard. See Table 2B-3 in the "Arizona Health Status and Vital Statistics 2011" report.

**5.14**  
**Five Leading Causes of Death<sup>a</sup> by Gender among American Indian**  
**Residents of Arizona in 2011**

<b>Rank</b>	<b>Female</b>	<b>Both</b>	<b>Male</b>
<b>1</b>	<b>Diseases of heart</b> 92.7	<b>Diseases of heart</b> 111.1	<b>Unintentional injury</b> 146.7
<b>2</b>	<b>Cancer</b> 90.9	<b>Cancer</b> 100.8	<b>Diseases of heart</b> 131.1
<b>3</b>	<b>Diabetes</b> 68.8	<b>Unintentional injury</b> 100.6	<b>Cancer</b> 116.3
<b>4</b>	<b>Unintentional injury</b> 58.0	<b>Diabetes</b> 61.3	<b>Diabetes</b> 50.7
<b>5</b>	<b>Chronic liver disease and cirrhosis</b> 40.4	<b>Chronic liver disease and cirrhosis</b> 43.6	<b>Chronic liver disease and cirrhosis</b> 46.7

Notes: <sup>a</sup> Based on age-adjusted mortality rates: Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard. See Table 2B-4 in the "Arizona Health Status and Vital Statistics 2011" report.

**5.15**  
**Five Leading Causes of Death<sup>a</sup> among American Indians by Gender and Residence**  
**On or Off Reservation, Arizona, 2011**

<b>Rank</b>	<b>Female, resided on reservation</b>	<b>Female, resided off reservation</b>	<b>Male, resided on reservation</b>	<b>Male, resided off reservation</b>
<b>1</b>	<b>Diseases of heart 12.7</b>	<b>Cancer 15.1</b>	<b>Unintentional injury 24.5</b>	<b>Unintentional injury 20.5</b>
<b>2</b>	<b>Cancer 12.5</b>	<b>Diabetes 14.7</b>	<b>Diseases of heart 13.3</b>	<b>Diseases of heart 13.1</b>
<b>3</b>	<b>Unintentional injury 10.6</b>	<b>Unintentional injury 11.6</b>	<b>Cancer 11.0</b>	<b>Cancer 9.9</b>
<b>4</b>	<b>Diabetes 7.9</b>	<b>Diseases of heart 10.4</b>	<b>Chronic liver disease and cirrhosis 6.2</b>	<b>Chronic liver disease and cirrhosis 8.0</b>
<b>5</b>	<b>Chronic liver disease and cirrhosis 7.4</b>	<b>Chronic liver disease and cirrhosis 8.0</b>	<b>Suicide 5.6</b>	<b>Diabetes 6.4</b>

Note: <sup>a</sup> Percent of total deaths in specified group.

**5.16**  
**Proportional Mortality<sup>a</sup> by Type of Cancer and Gender among American Indians and all Residents of Arizona, 2001-2011**

<b>Rank</b>	<b>Arizona male<sup>b</sup></b>	<b>American Indian Male</b>	<b>Arizona female<sup>b</sup></b>	<b>American Indian female</b>
<b>1</b>	<b>Trachea, bronchus, lung 27.9</b>	<b>Lymphoma 11.5</b>	<b>Trachea, bronchus, lung 25.5</b>	<b>Breast 12.5</b>
<b>2</b>	<b>Lymphoma 10.8</b>	<b>Prostate 11.0</b>	<b>Breast 15.4</b>	<b>Lymphoma 11.0</b>
<b>3</b>	<b>Prostate 10.4</b>	<b>Liver 9.7</b>	<b>Colon, rectum, anus 9.5</b>	<b>Ovary 8.1</b>
<b>4</b>	<b>Colon, rectum, anus 9.3</b>	<b>Trachea, bronchus, lung 9.3</b>	<b>Lymphoma 9.4</b>	<b>Trachea, bronchus, lung 7.7</b>
<b>5</b>	<b>Pancreas 5.9</b>	<b>Kidney 9.0</b>	<b>Pancreas 6.2</b>	<b>Colon, rectum, anus 6.9</b>
<b>6</b>	<b>Leukemia 4.4</b>	<b>Colon, rectum, anus 8.8</b>	<b>Ovary 6.0</b>	<b>Liver 6.4</b>
<b>7</b>	<b>Non-Hodgkin's lymphoma 4.0</b>	<b>Stomach 8.4</b>	<b>Non-Hodgkin's lymphoma 3.9</b>	<b>Pancreas 6.2</b>
<b>8</b>	<b>Liver 4.0</b>	<b>Pancreas 6.5</b>	<b>Leukemia 3.5</b>	<b>Stomach 5.7</b>
<b>9</b>	<b>Esophagus 3.8</b>	<b>Leukemia 4.1</b>	<b>Brain 2.5</b>	<b>Cervix uteri 4.5</b>
<b>10</b>	<b>Bladder 3.5</b>	<b>Esophagus 3.7</b>	<b>Liver 2.4</b>	<b>Kidney 4.0</b>

Notes: <sup>a</sup> Percent of cancer deaths in specified group in 2001-2011.  
<sup>b</sup> All race/ethnic groups combined.  
See Table 5-18 for percentages based on frequency counts.

**5.17**  
**Proportional Mortality<sup>a</sup> by Mechanism of Unintentional Injury and Gender among**  
**American Indians and all Residents of Arizona, 2001-2011**

<b>Rank</b>	<b>Arizona male<sup>b</sup></b>	<b>American Indian Male</b>	<b>Arizona female<sup>b</sup></b>	<b>American Indian female</b>
<b>1</b>	<b>Motor vehicle-related 37.5</b>	<b>Motor vehicle-related 53.9</b>	<b>Falls 33.0</b>	<b>Motor vehicle-related 61.8</b>
<b>2</b>	<b>Poisoning by drugs 22.9</b>	<b>Poisoning by drugs 8.9</b>	<b>Motor vehicle-related 29.1</b>	<b>Falls 11.8</b>
<b>3</b>	<b>Falls 16.9</b>	<b>Falls 6.8</b>	<b>Poisoning by drugs 20.6</b>	<b>Poisoning by drugs 8.6</b>
<b>4</b>	<b>Accidental drowning 3.6</b>	<b>Poisoning by gases 6.2</b>	<b>Misadventures to patients 2.2</b>	<b>Poisoning by gases 3.7</b>
<b>5</b>	<b>Poisoning by gases 2.0</b>	<b>Exposure to cold 5.3</b>	<b>Choked on objects other than food 2.2</b>	<b>Misadventures to patients 1.9</b>
<b>6</b>	<b>Exposure to heat 1.9</b>	<b>Accidental drowning 3.0</b>	<b>Accidental drowning 2.1</b>	<b>Exposure to cold 1.8</b>
<b>7</b>	<b>Choked on objects other than food 1.5</b>	<b>Railway accidents 1.5</b>	<b>Fire, flames, smoke 1.5</b>	<b>Choked on objects other than food 1.4</b>
<b>8</b>	<b>Fire, flames, smoke 1.4</b>	<b>Mechanical suffocation 1.5</b>	<b>Choked on food 1.4</b>	<b>Accidental drowning 1.3</b>
<b>9</b>	<b>Choked on food 1.2</b>	<b>Fire, flames, smoke 1.5</b>	<b>Exposure to heat 1.1</b>	<b>Fire, flames, smoke 1.2</b>
<b>10</b>	<b>Mechanical suffocation 1.2</b>	<b>Exposure to heat 1.4</b>	<b>Poisoning by gases 1.1</b>	<b>Railway accidents 0.8</b>

Notes: <sup>a</sup> Percent of unintentional injury deaths in specified group in 2001-2011.  
<sup>b</sup> All race/ethnic groups combined.  
See Table 5-19 for percentages based on frequency counts.

**5.18 (correction)**  
**COMPARISON OF MORTALITY BY SPECIFIC TYPE OF CANCER BY GENDER AMONG AMERICAN INDIANS AND ALL RESIDENTS<sup>a</sup> OF ARIZONA, 2001-2011**

	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
<b>Malignant neoplasms, total</b>	107,765	57,807	49,955	2,111	1,010	1,100
<b>Malignant neoplasm of lip, oral cavity and pharynx</b>	1,413	1,006	407	26	18	8
<b>Malignant neoplasm of esophagus</b>	2,754	2,218	536	48	37	11
<b>Malignant neoplasm of stomach</b>	2,113	1,274	839	148	85	63
<b>Malignant neoplasm of colon, rectum and anus</b>	10,108	5,381	4,726	165	89	76
<b>Malignant neoplasm of liver and intrahepatic bile ducts</b>	3,546	2,330	1,216	168	98	70
<b>Malignant neoplasm of pancreas</b>	6,497	3,398	3,099	134	66	68
<b>Malignant neoplasm of larynx</b>	635	504	131	10†	*	*
<b>Malignant neoplasm of trachea, bronchus and lung</b>	28,880	16,131	12,749	179	94	85
<b>Malignant melanoma of skin</b>	1,904	1,323	581	10†	8	*
<b>Malignant neoplasm of breast</b>	7,763	83	7,680	140†	*	138
<b>Malignant neoplasm of cervix uteri</b>	713	0	713	49	0	49
<b>Malignant neoplasm of corpus uteri and uterus, part unspecified</b>	1,170†	*	1,166	35	0	35
<b>Malignant neoplasm of ovary</b>	2,990†	*	2,989	89	0	89
<b>Malignant neoplasm of prostate</b>	6,015	6,008	7	111	111	0
<b>Malignant neoplasm of kidney and renal pelvis</b>	2,651	1,712	939	135	91	44
<b>Malignant neoplasm of bladder</b>	2,776	2,021	754	24	12	12
<b>Malignant neoplasm of meninges, brain and other parts of central nervous system</b>	2,729	1,503	1,226	34	20	14
<b>Malignant neoplasm of lymphoid, hematopoietic and related tissue</b>	10,943	6,235	4,707	238	116	121
<b>Hodgkin's disease</b>	219	133	86	0†	*	0
<b>Non-Hodgkin's lymphoma</b>	4,265	2,337	1,927	79	36	42
<b>Leukemia</b>	4,289	2,519	1,770	85	41	44
<b>Multiple myeloma and immunoproliferative neoplasms</b>	2,163	1,242	921	72	37	35
<b>Other and unspecified malignant neoplasms of lymphoid tissue</b>	10†	*	*	0	0	0
<b>All other and unspecified malignant neoplasms</b>	12,168	6,678	5,490	370	158	212

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> All race/ethnic groups combined.

**5.19 (correction)**  
**UNINTENTIONAL INJURY DEATHS BY MECHANISM AND GENDER AMONG AMERICAN INDIANS AND**  
**ALL RESIDENTS<sup>a</sup> OF ARIZONA, 2001-2011**

	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
<b>5.19</b>	31,055	19,793	11,256	2,971	2,133	838
<b>Railway accidents</b>	107	92	15	40	33	7
<b>Motor vehicle -related</b>	10,694	7,414	3,280	1,668	1,150	518
<b>Water transport accident</b>	35	25	10	0	0	0
<b>Accident involving aircraft</b>	230	194	36	0†	*	0
<b>Poisoning by drugs/ medicaments</b>	6,856	4,541	2,315	262	190	72
<b>Poisoning by gases and vapors</b>	526	405	121	163	132	31
<b>Falls</b>	7,056	3,343	3,712	244	145	99
<b>Fire, flames, smoke</b>	436	269	167	41	31	10
<b>Excessive natural heat</b>	497	368	129	35	29	6
<b>Excessive natural cold</b>	229	189	40	129	114	15
<b>Contact with venomous snakes and lizards</b>	10†	*	*	0†	*	0
<b>Contact with venomous spiders</b>	0†	*	*	0	0	0
<b>Contact with scorpions</b>	0†	*	*	0	0	0
<b>Contact with hornets, wasps, bees</b>	10†	*	*	0	0	0
<b>Bitten or struck by dog</b>	15	7	8	0†	*	0
<b>Lightning</b>	10†	10	*	0†	*	0
<b>Storms and floods</b>	10†	9	*	0†	*	0
<b>Accidental drowning and submersion</b>	941	703	237	75	64	11
<b>Choked on food</b>	393	239	154	27	20	7
<b>Choked on other objects</b>	551	305	246	37	25	12
<b>Mechanical suffocation</b>	336	235	101	39	32	7
<b>Accidental discharge of firearms</b>	160	129	31	20†	16	*
<b>Exposure to electric current</b>	77	77	0	10†	*	0
<b>Overexertion</b>	0†	*	0	0†	*	0
<b>Adverse effects of drugs in therapeutic use</b>	68	27	41	0†	*	0
<b>Misadventures to patients during medical/surgical care</b>	488	235	253	25	9	16

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> All race/ethnic groups combined.