

INJURY MORTALITY AMONG ARIZONA RESIDENTS



INJURY DEATHS DUE TO EVENTS OF UNDETERMINED INTENT

ARIZONA,
1994-2004

Public Health Services
Bureau of Public Health Statistics
Health Status and Vital Statistics Section



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INJURY DEATHS DUE TO EVENTS OF UNDETERMINED INTENT ARIZONA, 1994-2004

BY

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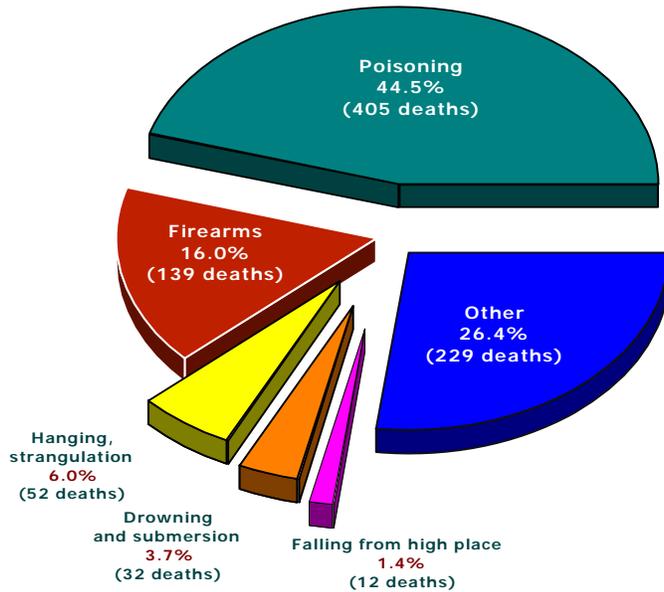
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EVENTS OF UNDETERMINED INTENT, ARIZONA, 1994-2004

KEY FINDINGS

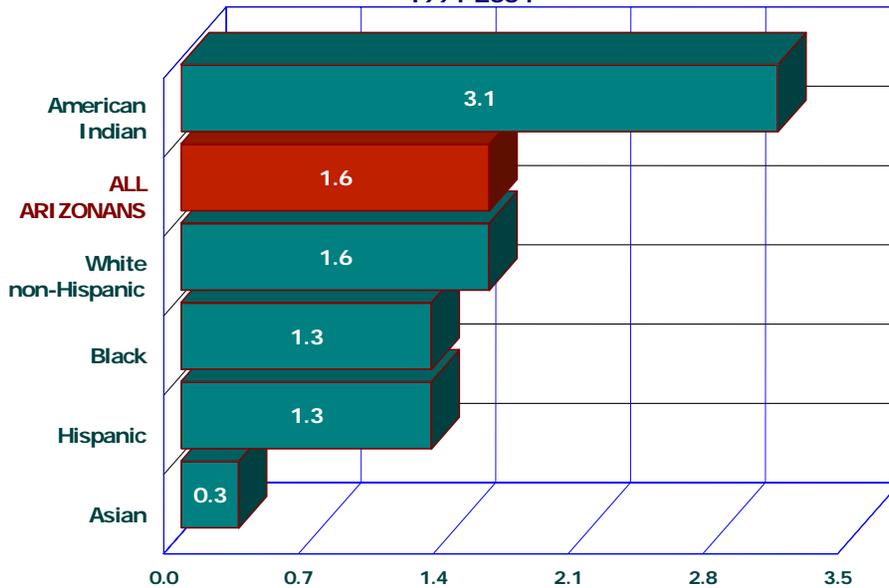
Figure 6-1
Number and Percent of Injury Deaths Due to
Events of Undetermined Intent By Mortality Category,
Arizona, 1994-2004

N = 869 deaths in 1994-2004



During 1994-2004, there were 869 deaths of Arizona residents where available information was insufficient to enable a medical or legal authority to make a distinction between accident, suicide and assault. Events where poisoning or firearms were involved accounted for the majority of all injury deaths, which were undetermined whether they were accidentally, or purposely inflicted (Figure 6-1, Table 6-1).

Figure 6-2
Average Annual* Rates for Injury Deaths Due to Events of
Undetermined Intent by Race/Ethnic Group, Arizona,
1994-2004



During 1994-2004, American Indian residents of Arizona had the highest among ethnic groups average annual mortality rate for fatal injuries of undetermined intent (Figure 6-2). The average annual rate of 3.1 injury deaths due to events of undetermined intent among American Indians was 10.3 times greater than the rate of 0.3/100,000 among Asians.

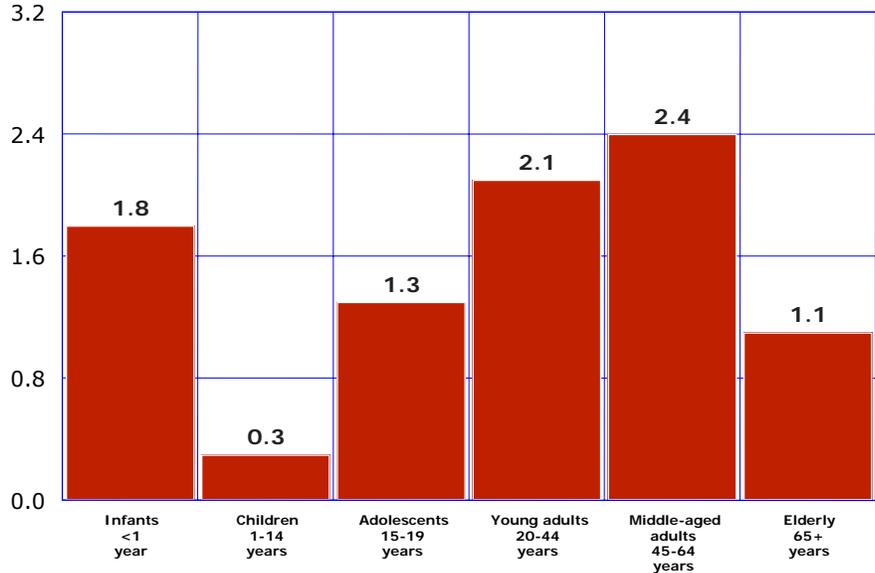
*Number of deaths in events of undetermined intent per 100,000 population in specified group per year from 1994 to 2004. The rates were computed using an 11-year total number of deaths for 1994-2004. The 1999 populations figures for each group multiplied by eleven, were used as denominators.

EVENTS OF UNDETERMINED INTENT, ARIZONA, 1994-2004

KEY FINDINGS

Figure 6-3
Average Annual Rates*for Injury Deaths Due to Events of Undetermined Intent by Age Group, Arizona, 1994-2004

In 1994-2004, middle-aged Arizonans 45-64 years old had the highest average annual mortality rate for injuries due to events of undetermined intent (2.4 deaths per 100,000 persons), followed by young adults aged 20-44 years (2.1/100,000), and infants under one year of age (1.8/100,000, **Figure 6-3**).



*Number of injury deaths due to events of undetermined intent per 100,000 population in specified group per year from 1994 to 2004. The rates were computed using an 11-year total number of deaths for 1994-2004. The 1999 population figures for each group multiplied by eleven were used as denominators.

Figure 6-4
Average Annual Rates*for Injury Deaths Due to Events of Undetermined Intent by Gender, Arizona, 1994-2004

Among the 869 deaths in 1994-2004 due to injuries of undetermined intent, 581 were males and 288 were females. The average annual male mortality rate for injuries of undetermined intent was 2 times greater than the female rate (**Figure 6-4, Table 6-4**).

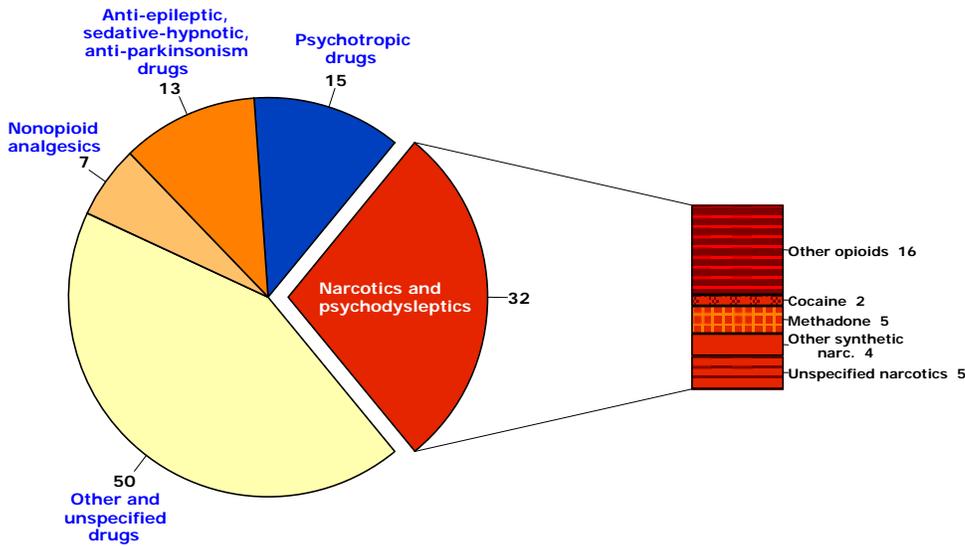


*Number of injury deaths due to events of undetermined intent per 100,000 population in specified group per year from 1994 to 2004. The rates were computed using an 11-year total number of deaths for 1994-2004. The 1999 population figures for each group multiplied by eleven were used as denominators.

EVENTS OF UNDETERMINED INTENT, ARIZONA, 1994-2004

KEY FINDINGS

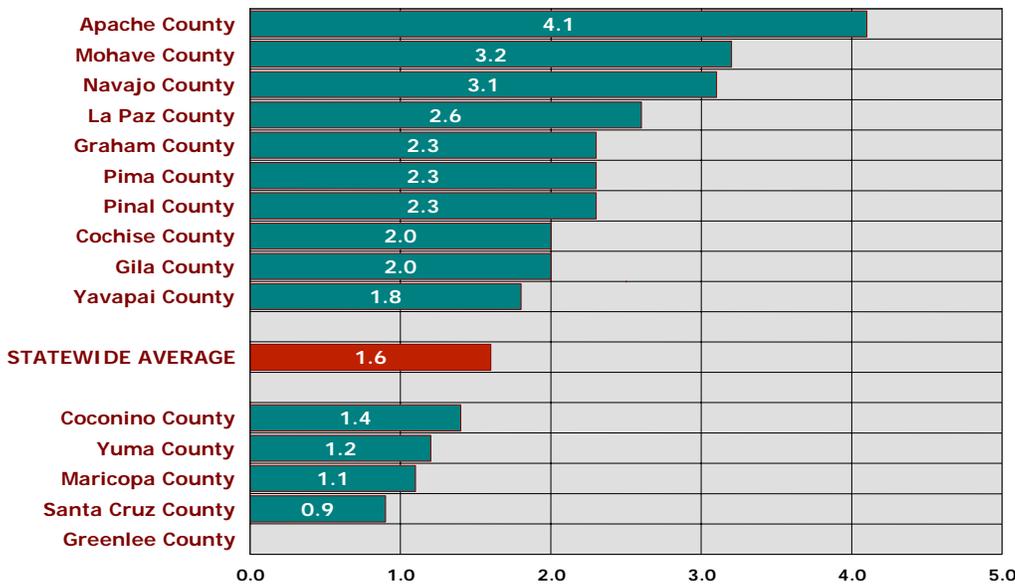
Figure 6-5
Selected Substances Involved in Poisoning Deaths Due to Events of Undetermined Intent, Arizona Residents, 2004
 N = 117 mentions of ICD-10 T-codes on 62 death



In 2004, 62 deaths of Arizona residents were attributed to drug poisoning of undetermined intent (Table 6-1). Narcotics and psychodysleptics were mentioned 33 times on 28 of those death records Figure 6-5). Non-specific categories such as "other opioids", "other synthetic narcotics", and "other and unspecified narcotics" accounted for the majority of the mentions of ICD-10 T-codes for narcotics. Antidepressants and psychostimulants (such as methamphetamine) accounted for the majority of the ICD-10 T-codes for psychotropic drugs.

Note: More than one substance can be mentioned on a death certificate. The sum of all identified ICD-10 T-codes for substances (117) is greater than the number of 62 drug poisonings o undetermined intent.

Figure 6-6
Average Annual* Rates for Injury Deaths Due to Events of Undetermined Intent by County of Residence in Arizona, 1994-2004



The average annual rates for injury deaths due to events of undetermined intent varied in Arizona in 1994-2004 from 4.1 deaths per 100,000 residents of Apache County, to 0.9 deaths per 100,000 residents of Santa Cruz County. Including Apache, ten counties exceeded the statewide rate of 1.6 deaths per 100,000 resident population in 1994-2004. There were no deaths due to events of undetermined intent in Greenlee County.

*Number of injury deaths due to events of undetermined intent per 100,000 population per year from 1994-2004. The rates were computed using an 11-year total number of deaths for 1994-2004. The 1999 population figures (i.e., population at mid-point) multiplied by eleven were used as the denominators.

**TABLE 6-1
INJURY DEATHS DUE TO EVENTS OF UNDETERMINED INTENT BY YEAR, ARIZONA RESIDENTS, 1994-2004**

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Poisoning by solid or liquids	19	20	22	27	38	45	21	41	44	48	62
Poisoning by gases or vapors	0	2	2	2	0	2	2	0	2	4	2
Hanging, strangulation	4	0	5	8	8	4	3	9	2	5	4
Drowning and submersion	2	2	2	3	3	1	0	7	3	4	5
Firearms and explosives	17	11	9	14	12	7	10	18	13	14	14
Falling from high places	1	2	1	1	1	1	0	0	1	3	1
Other	43	15	14	20	14	12	17	26	23	24	21
Total	86	52	55	75	76	72	53	101	88	102	109

TABLE 6-2
 INJURY DEATHS DUE TO EVENTS OF UNDETERMINED INTENT BY FIVE-YEAR AGE GROUPS AND YEAR,
 ARIZONA RESIDENTS, 1994-2004

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<1	2	0	1	3	1	0	1	2	2	1	2
1-4	1	0	2	3	0	0	0	2	0	1	1
5-9	0	0	0	1	0	0	0	0	0	1	0
10-14	6	1	0	2	1	1	1	1	2	2	1
15-19	4	5	6	4	2	4	3	6	8	1	6
20-24	6	4	1	4	4	5	3	7	2	4	6
25-29	3	5	4	3	6	8	4	8	4	5	9
30-34	13	10	6	12	7	8	2	10	10	10	6
35-39	9	6	10	8	13	6	4	15	15	11	10
40-44	9	9	8	11	10	8	6	16	9	11	16
45-49	2	4	5	8	10	7	11	9	8	16	18
50-54	4	2	3	4	6	4	5	10	9	14	16
55-59	3	2	2	3	6	3	3	2	3	11	5
60-64	9	2	2	1	1	5	2	4	6	5	3
65-69	2	0	2	1	3	2	1	2	1	3	4
70-74	5	0	0	4	2	2	1	1	3	0	2
75-79	0	1	0	2	2	4	1	1	0	3	0
80-84	3	0	1	1	1	0	2	1	2	2	2
85-89	1	0	0	0	0	0	0	0	1	1	0
90-94	1	0	1	0	1	1	1	0	0	0	2
95-99	1	0	0	0	0	1	0	0	0	0	0
Unknown	2	1	1	0	0	3	2	4	3	0	0
Total	86	52	55	75	76	72	53	101	88	102	109

TABLE 6-3
 INJURY DEATHS DUE TO EVENTS OF UNDETERMINED INTENT BY RACE/ETHNICITY, AGE GROUP AND YEAR,
 ARIZONA RESIDENTS, 1994-2004

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
White non-Hispanic											
Total	49	34	34	55	55	47	39	68	61	72	79
<1	1	0	0	3	1	0	1	0	0	0	2
1-14	3	1	2	3	1	1	1	1	2	0	0
15-19	0	1	2	2	2	0	0	3	2	0	2
20-44	22	24	17	25	26	20	14	39	29	24	35
45-64	12	6	10	16	19	16	17	19	21	40	33
65+	11	1	2	6	6	7	5	5	6	8	7
Unknown	0	1	1	0	0	3	1	1	1	0	0
Hispanic or Latino											
Total	16	9	11	8	10	9	6	23	16	18	22
<1	0	0	1	0	0	0	0	2	1	1	0
1-14	1	0	0	2	0	0	0	2	0	1	2
15-19	3	1	3	1	0	4	3	2	6	1	3
20-44	9	7	7	5	7	4	3	13	7	11	9
45-64	2	1	0	0	2	1	0	3	2	3	7
65+	1	0	0	0	1	0	0	0	0	1	1
Unknown	0	0	0	0	0	0	0	1	0	0	0
Black or African American											
Total	4	2	2	1	0	5	1	4	4	2	0
<1	1	0	0	0	0	0	0	0	0	0	0
1-14	0	0	0	0	0	0	0	0	0	1	0
15-19	1	1	1	1	0	0	0	0	0	1	0
20-44	2	1	1	0	0	3	1	2	4	0	0
45-64	0	0	0	0	0	1	0	2	0	1	0
65+	0	0	0	0	0	1	0	0	0	0	0
American Indian or Alaska Native											
Total	13	7	7	10	11	10	5	4	5	10	8
<1	0	0	0	0	0	0	0	0	1	0	0
1-14	3	0	0	0	0	0	0	0	0	2	0
15-19	0	2	0	0	0	0	0	1	0	0	1
20-44	7	2	4	8	7	7	1	2	0	5	3
45-64	3	3	1	0	2	1	3	1	3	3	2
65+	0	0	2	2	2	2	1	0	1	0	2
Unknown	0	0	0	0	0	0	0	0	0	0	0
Asian or Pacific Islander											
Total	1	0	1	1	0	0	0	0	0	0	0
1-14	0	0	0	1	0	0	0	0	0	0	0
20-44	0	0	0	0	0	0	0	0	0	0	0
45-64	1	0	1	0	0	0	0	0	0	0	0
Other/Unknown											
Total	3	0	0	0	0	1	2	2	2	0	0
20-44	0	0	0	0	0	1	0	0	0	0	0
45-64	0	0	0	0	0	0	1	0	0	0	0
65+	1	0	0	0	0	0	0	0	0	0	0
Unknown	2	0	0	0	0	0	1	2	2	0	0

TABLE 6-4
INJURY DEATHS DUE TO EVENTS OF UNDETERMINED INTENT BY GENDER, RACE/ETHNICITY AND YEAR,
ARIZONA RESIDENTS, 1994-2004

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total											
Total	86	52	55	75	76	72	53	101	88	102	109
White non-Hispanic	49	34	34	55	55	47	39	68	61	72	79
Hispanic or Latino	16	9	11	8	10	9	6	23	16	18	22
Black or African American	4	2	2	1	0	5	1	4	4	2	0
American Indian or Alaska Native	13	7	7	10	11	10	5	4	5	10	8
Asian or Pacific Islander	1	0	1	1	0	0	0	0	0	0	0
Other/Unknown	3	0	0	0	0	1	2	2	2	0	0
Male											
Total	64	36	39	56	46	45	35	73	54	70	63
White non-Hispanic	33	22	21	37	34	28	23	49	35	46	41
Hispanic or Latino	14	8	9	7	4	7	5	16	13	14	16
Black or African American	4	2	1	1	0	2	1	2	2	1	0
American Indian or Alaska Native	10	4	7	10	8	8	5	4	3	9	6
Asian or Pacific Islander	0	0	1	1	0	0	0	0	0	0	0
Other/Unknown	3	0	0	0	0	0	1	2	1	0	0
Female											
Total	22	16	16	19	30	27	18	28	34	32	46
White non-Hispanic	16	12	13	18	21	19	16	19	26	26	38
Hispanic or Latino	2	1	2	1	6	2	1	7	3	4	6
Black or African American	0	0	1	0	0	3	0	2	2	1	0
American Indian or Alaska Native	3	3	0	0	3	2	0	0	2	1	2
Asian or Pacific Islander	1	0	0	0	0	0	0	0	0	0	0
Other/Unknown	0	0	0	0	0	1	1	0	1	0	0

**TABLE 6-5
INJURY DEATHS DUE TO EVENTS OF UNDETERMINED INTENT BY COUNTY OF RESIDENCE AND YEAR,
ARIZONA, 1994-2004**

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Apache	5	1	1	1	6	2	2	1	5	3	3
Cochise	2	3	0	5	3	0	4	1	5	2	3
Coconino	2	1	3	1	2	1	1	1	1	0	6
Gila	0	1	2	1	2	0	1	1	2	1	0
Graham	1	0	2	2	0	3	0	0	0	1	0
Greenlee	0	0	0	0	0	0	0	0	0	0	0
Maricopa	23	17	21	25	26	30	15	45	49	61	44
Mohave	2	2	2	4	4	6	3	9	3	4	12
Navajo	2	1	2	4	2	4	3	4	1	4	5
Pima	30	16	12	22	24	19	19	25	17	16	16
Pinal	8	1	3	4	1	6	1	7	2	3	5
Santa Cruz	2	0	0	0	0	0	1	1	0	0	0
Yavapai	2	1	1	2	1	0	2	2	2	6	11
Yuma	4	2	1	1	1	1	1	3	0	0	4
La Paz	0	0	0	0	0	0	0	1	1	1	0
Unknown	3	6	5	3	4	0	0	0	0	0	0
Total	86	52	55	75	76	72	53	101	88	102	109

TABLE 6-6
SELECTED SUBSTANCES INVOLVED IN DRUG POISONING DEATHS DUE TO EVENTS OF UNDETERMINED INTENT,
ARIZONA RESIDENTS, 2004

	Total		Gender		Race/Ethnicity			Age group				Marital status					
			M	F	White non-Hispanic	Hispanic or Latino	American Indian or Alaska Native	15-19	20-44	45-64	65+	Never married	Married	Widowed	Divorced	Not stated	
Narcotics and psychodysleptics	28	15	13	20	6	2	4	9	13	2	10	10	1	6	1		
Heroin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other opioids (e.g., codeine, morphine, oxycodone)	16	10	6	10	5	1	3	5	7	1	8	5	0	3	0		
Methadone	5	3	2	4	1	0	1	3	1	0	1	2	0	2	0		
Other synthetic narcotics	4	1	3	3	0	1	0	1	3	0	1	2	1	0	0		
Cocaine	2	0	2	1	1	0	0	0	2	0	0	1	0	1	0		
Other and unspecified narcotics	5	3	2	5	0	0	0	2	2	1	1	1	0	2	1		
Psychotropic drugs, not elsewhere classified	12	6	6	10	2	0	0	5	7	0	4	6	0	2	0		
Tricyclic and tetracyclic antidepressants	4	3	1	4	0	0	0	2	2	0	2	2	0	0	0		
Other/unspecified antidepressants	4	2	2	3	1	0	0	2	2	0	1	1	0	2	0		
Psychostimulants (e.g., methamphetamine)	5	2	3	4	1	0	0	2	3	0	2	3	0	0	0		
Other/unspecified psychotropic drugs	2	2	0	1	1	0	0	1	1	0	1	0	0	1	0		
Antiepileptic, sedative-hypnotic and antiparkinson drugs	11	4	7	7	3	1	2	5	3	1	3	5	1	2	0		
Barbiturates	1	0	1	0	1	0	0	1	0	0	0	0	0	1	0		
Benzodiazepines	8	4	4	5	2	1	2	4	1	1	3	4	0	1	0		
Other antiepileptic and sedative-hypnotic drugs	4	1	3	4	0	0	0	2	2	0	0	3	1	0	0		
Nonopioid analgesics (e.g., acetaminophen)	7	1	6	5	2	0	0	6	1	0	3	3	0	1	0		
Other and unspecified drugs	50	19	31	41	7	2	4	20	24	2	13	19	2	15	1		
Total deaths	62	26	36	50	9	3	4	24	32	2	16	24	2	19	1		

Note: The specific substances in the above table are identified using ICD-T-codes. The sum of all identified T-codes for substances, or a specific class of substances is greater than the number of drug poisonings of undetermined intent (62).