



1993 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System

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1993 was a landmark year for the American Association of Poison Control Centers' (AAPCC) nationwide poisoning surveillance effort. Several substantial revisions in the format and extent of data collected were implemented, with successful transition to the new system in all but two poison centers. The most significant of these changes is the implementation of a system to record specific clinical effects manifested in each poison exposure case. Changes in field definitions and expanded fields to document medical outcome, age, patient disposition, and reason for exposure are evident in the data that follow.

Toxic Exposure Surveillance System (TESS) data are used to identify hazards early, preventing needless injury. TESS data have prompted product reformulations, repackaging, recalls, and bans. Applications for conversion from prescription to over-the-counter status have been supported with TESS safety data, and TESS data have been used for postmarketing surveillance of newly released drugs and products.

From its inception in 1983 until 1992, TESS grew steadily with increases in the number of participating poison centers, population served by those centers, and reported human ex-

From the Data Collection Committee, American Association of Poison Control Centers.

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Centers participating in this report include Children's Hospital of Alabama Regional Poison Control Center, Birmingham, Alabama; Alabama Poison Center, Tuscaloosa, AL; Arizona Poison and Drug Information Center, Tucson, AZ; Samaritan Regional Poison Center, Phoenix, AZ; University of California Davis Medical Center Regional Poison Control Center, Sacramento, CA; San Diego Regional Poison Center, San Diego, CA; University of California Irvine Regional Poison Center, Orange, CA; Santa Clara Valley Medical Center Regional Poison Center, San Jose, CA; Central California Regional Poison Control Center, Fresno, CA; Rocky Mountain Poison and Drug Center, Denver, CO; Connecticut Poison Control Center, Farmington, CT; National Capital Poison Center, Washington, DC; Florida Poison Information Center and Toxicology Resource Center, Tampa, FL; Florida Poison Information Center-Jacksonville, Jacksonville, FL; Georgia Poison Control Center, Atlanta, GA; Idaho Poison Center, Boise, ID; Indiana Poison Center, Indianapolis, IN; St. Luke's Poison Center, Sioux City, IA; Mid-America Poison Control Center, Kansas City, KS; Kentucky Regional Poison Center of Kosair Children's Hospital, Louisville, KY; Louisiana Drug and Poison Information Center, Monroe, LA; Maryland Poison Center, Baltimore, MD; Massachusetts Poison Control System, Boston, MA; Children's Hospital of Michigan Poison Control Center, Detroit, MI; Blodgett Regional Poison Center, Grand Rapids, MI; Hennepin Regional Poison Center, Minneapolis, MN; Cardinal Glennon Children's Hospital Regional Poison Center, St. Louis, MO; The Poison Center, Omaha, NE; New Hampshire Poison Information Center, Lebanon, NH; New Jersey Poison Information

and Education System, Newark, NJ; New Mexico Poison and Drug Information Center, Albuquerque, NM; New York City Poison Control Center, New York, NY; Hudson Valley Poison Center, Nyack, NY; Long Island Regional Poison Control Center, Mineola, NY; Finger Lakes Regional Poison Center, Rochester, NY; Central New York Poison Control Center, Syracuse, NY; Western New York Regional Poison Control Center, Buffalo, NY; Triad Poison Center, Greensboro, NC; Carolinas Poison Center, Charlotte, NC; North Dakota Poison Information Center, Fargo, ND; Akron Regional Poison Center, Akron, OH; Cincinnati Drug and Poison Information Center, Cincinnati, OH; Central Ohio Poison Center, Columbus, OH; Greater Cleveland Poison Control Center, Cleveland, OH; Mahoning Valley Poison Center, Youngstown, OH; Oregon Poison Center, Portland, OR; Pittsburgh Poison Center, Pittsburgh, PA; The Poison Control Center, Philadelphia, PA; Central Pennsylvania Poison Center, Hershey, PA; Rhode Island Poison Center, Providence, RI; McKennan Poison Control Center, Sioux Falls, SD; Middle Tennessee Regional Poison and Clinical Toxicology Center, Nashville, TN; Southern Poison Center, Inc., Memphis, TN; North Texas Poison Center, Dallas, TX; Texas State Poison Center, Galveston, TX; Utah Poison Control Center, Salt Lake City, UT; Virginia Poison Center, Richmond, VA; Blue Ridge Poison Center, Charlottesville, VA; Washington Poison Center, Seattle, WA; Spokane Poison Center, Spokane, WA; West Virginia Poison Center, Charleston, WV; University of Wisconsin Hospital Regional Poison Center, Madison, WI; Poison Center of Eastern Wisconsin, Milwaukee, WI; Green Bay Poison Center, Green Bay, WI.

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TABLE 1. Growth of the AAPCC Toxic Exposure Surveillance System

| Year | No. of Participating Centers | Population Served (Millions) | Human Exposures Reported | Exposures/Thousand Population |
|-------|------------------------------|------------------------------|--------------------------|-------------------------------|
| 1983 | 16 | 43.1 | 251,012 | 5.8 |
| 1984 | 47 | 99.8 | 730,224 | 7.3 |
| 1985 | 56 | 113.6 | 900,513 | 7.9 |
| 1986 | 57 | 132.1 | 1,098,894 | 8.3 |
| 1987 | 63 | 137.5 | 1,166,940 | 8.5 |
| 1988 | 64 | 155.7 | 1,368,748 | 8.8 |
| 1989 | 70 | 182.4 | 1,581,540 | 8.7 |
| 1990 | 72 | 191.7 | 1,713,462 | 8.9 |
| 1991 | 73 | 200.7 | 1,837,939 | 9.2 |
| 1992 | 68 | 196.7 | 1,864,188 | 9.5 |
| 1993 | 64 | 181.3 | 1,751,476 | 9.7 |
| Total | | | 14,264,936 | |

posures (Table 1).¹⁻¹⁰ For the first time ever, in 1993, TESS participation declined, reflecting several factors: (1) eight poison centers that participated in 1992 had closed by the start of 1993; (2) one center was inadequately staffed, be-

cause of inadequate funding, to allow participation; and (3) two centers were unable to convert to the revised data collection system in a timely manner because of logistical problems.

The cumulative AAPCC database now contains 14.2 million human poison exposure cases. This report includes 1,751,476 human exposure cases reported by 64 participating poison centers during 1993, a decline of 6% compared with 1992 poisoning reports. The decline in the number of reporting centers, reported poisonings, and population served by reporting centers undoubtedly mirrors the present funding crisis faced by our nation's poison centers. No progress has been made toward our national goal of providing access by all United States (US) citizens to certified regional poison centers. Indeed, only 50% of the US population is currently served by the nation's 36 certified regional poison centers. The number of certified centers decreased from 38 just 1 year ago, and the population served by these centers is down to 50% (a decrease from 59% 2 years ago). Furthermore, the tenuous funding base of those centers that remain operational has, in many centers, led to impaired service, decreased surveillance efforts, and a decrease in poison prevention activity. Indeed, it is appalling that several of our

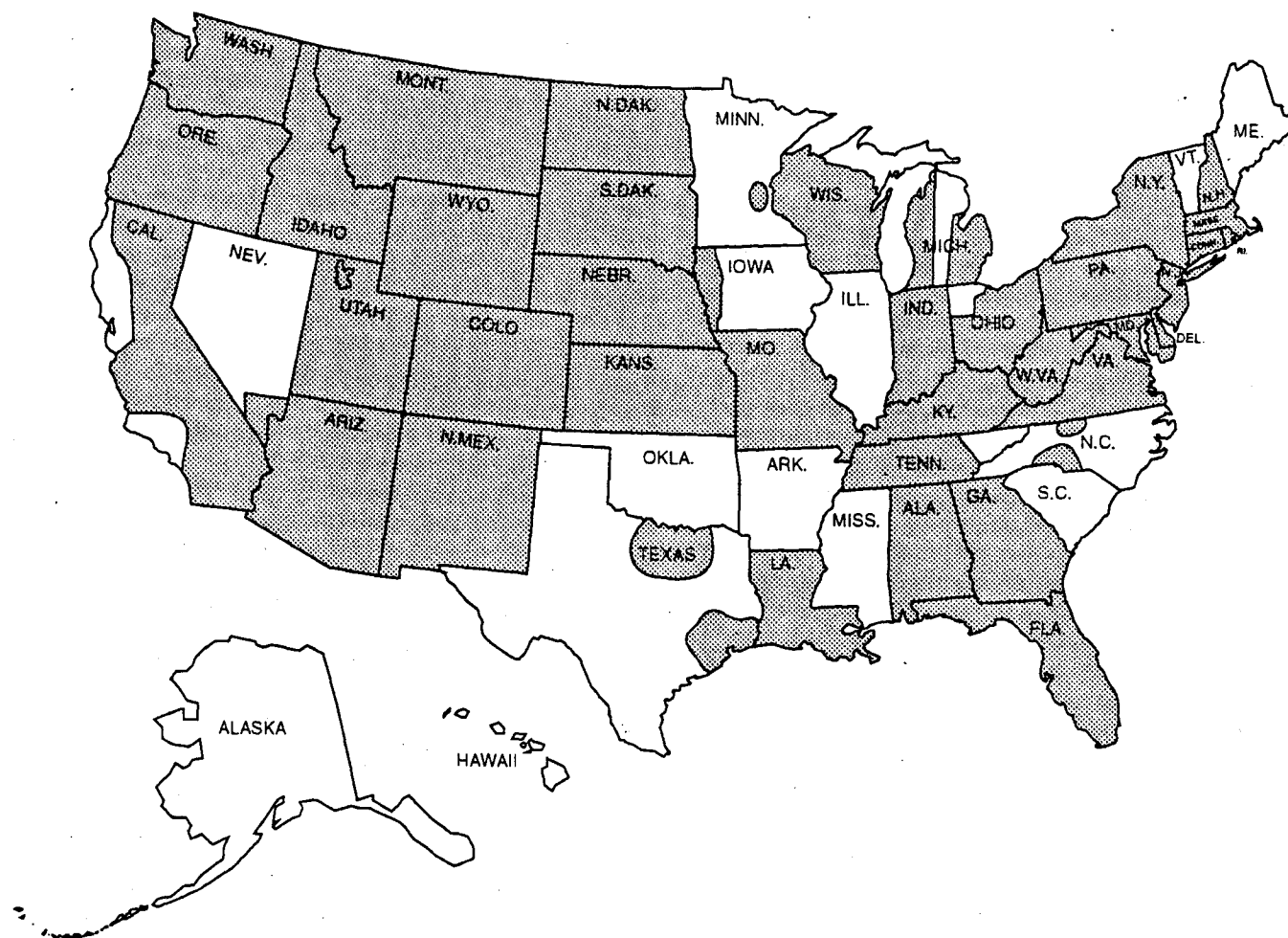


FIGURE 1. Sixty-four poison centers participated in the Toxic Exposure Surveillance System in 1993. The shaded areas denote regions served by reporting centers.

nation's largest poison centers have been forced to limit their hours of operation and/or abandon their data collection activities and poison prevention efforts. Noting the important role of poison centers in limiting health care expenditures through avoidance of unnecessary emergency department visits, as well as the role of poison centers in guiding the delivery of state-of-the-art treatment for poisonings, the stabilization of US poison control centers is an urgent need.

CHARACTERIZATION OF PARTICIPATING CENTERS

Of the 64 reporting centers, 55 submitted data for the entire year. Thirty-six of the 64 participating centers were certified as regional poison centers by the AAPCC in 1993. Annual center call volumes (human exposure cases only) ranged from 1,230 to 78,000 (mean 29,858) for centers participating for the entire year. Penetrance, calculated by state or portion of the state served, ranged from 3.9 to 16.8 per 1,000 with a mean of 9.7 reported exposures per 1,000 population. Penetrance is defined as the number of human poison exposure cases reported per 1,000 individuals in the population served.

A total population of 181.3 million was served by the participating centers, including portions of 43 states and the District of Columbia (Figure 1). Noting the 257.9 million 1993 United States population, the data presented represent an estimated 70% of the human poison exposures that precipitated poison center contacts in the US during 1993. Extrapolating from the 1,751,476 human poison exposures reported in this database, 2.5 million human poison exposures are estimated to have been reported to all US poison centers in 1993. However, extrapolations from the number of reported poisonings to the number of actual poisonings occurring annually in the US cannot be made from these data alone, because considerable variations in poison center penetrance were noted. Indeed, assuming all centers reached the penetrance level of 16.8 poisonings per 1,000 population reported for one state, 4.3 million poisonings would have been reported to poison centers in 1993.

The data do not directly identify a trend in the overall incidence of poisonings in the US because of changing center participation from year to year and changes in center use. An analysis of data from 59 centers that participated for the entirety of both 1992 and 1993 shows only a 0.4% increase in reported poison exposures from 1992 to 1993 within the regions served by these 59 centers. Thirty of these 59 centers actually showed a decrease in usage in 1993 compared with 1992. This stands in marked contrast with the 3.2% to 3.5% annual growth seen in poison center use from 1989 to 1992 and the 7.6% average annual growth in poison center use seen in 1984 through 1989 (range 4.2% to 10.9% increase annually). Although this levelling of use could be heralded as a welcome decrease in poisoning incidence in the US, such kudos would be premature. Instead it is evident that most US poison centers remain a long way from optimal levels of use and are now showing virtually no annual improvement in use. Inadequate poison center use leads to unnecessary health care expenditures including unnecessary emergency department visits and ambulance transports. Inadequate poison center use also affects the outcome of poisoned patients. In sum, these TESS data show the impact of decreased fiscal stability of US poison centers.

REVIEW OF THE DATA

Of the 1,751,476 human exposures reported in 1993, 90.3% occurred at a residence (Table 2). In 4% of cases (74,611 cases), multiple patients were implicated in the poison exposure episode (eg, siblings "shared" a household product, multiple patients inhaled vapors at a hazardous materials spill). Two unlikely sites of poisonings, health care facilities and schools, accounted for 8,196 (0.5%) and 21,617 (1.2%) poison exposures, respectively. Poison center peak call volumes were noted from 4 to 10 PM, although call frequency remained consistently high between 8 AM and midnight, with 92% of calls logged during this 16-hour period.

The age and gender distribution of human poison exposure victims is outlined in Table 3. Children younger than 3 years of age were involved in 42% of cases, and 56% occurred in children younger than 6 years. A male predominance is found among poison exposure victims younger than 13 years of age, but the gender distribution is reversed in teenagers and adults. Although the gender distribution was nearly equal for unintentional exposures, 60.7% of intentional exposures occurred in females, as did 64.1% of adverse reactions. Of all poison exposures captured, 6,443 occurred in pregnant women. Of those with known pregnancy duration, 32% occurred in the first trimester, 38% in the second trimester, and 30% in the third trimester.

Table 4 presents the age and gender distribution for the 626 reported fatalities. Although responsible for the majority of poisoning reports, children younger than 6 years of age comprised only 4.3% (27) of the fatalities. Fifty-seven percent of poisoning fatalities occurred in 20- to 49-year-old individuals.

A single substance was implicated in 93.2% of reports, and 1.6% of patients were exposed to more than two possibly poisonous drugs or products (Table 5). The overwhelming majority of human exposures were acute (95.7%) compared with only 64.4% of poison-related fatal exposures. Chronic exposures comprised 2.1% of all poison exposure reports, and acute-on-chronic exposures comprised 1.7%. (Chronic exposures were defined as continuous or repeated exposures occurring in a period exceeding 8 hours; the coding option "acute-on-chronic" was new in 1993.)

To enhance coding consistency and capture additional data, five new coding options for exposure reason were im-

TABLE 2. Site of Caller and Site of Exposure, Human Poison Exposures Cases

| | Site of Caller (%) | Site of Exposure (%) |
|-------------------------|--------------------|----------------------|
| Residence | | |
| Own | 77.8 | 87.2 |
| Other | 2.3 | 3.1 |
| Workplace | 2.3 | 2.8 |
| Health care facility | 12.4 | 0.5 |
| School | 0.7 | 1.2 |
| Restaurant/food service | 0.1 | 0.6 |
| Public area | 0.5 | 1.2 |
| Other | 3.3 | 1.0 |
| Unknown | 0.6 | 2.3 |

TABLE 3. Age and Gender Distribution of Human Poison Exposure Cases

| Age (years) | Male | | Female | | Unknown | | Total | | Cumulative Total | |
|----------------------|---------|------|---------|------|---------|-------|-----------|-------|------------------|-------|
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| <1 | 62,457 | 52.1 | 56,368 | 47.0 | 1,041 | 0.87 | 119,866 | 6.8 | 119,866 | 6.8 |
| 1 | 155,008 | 52.5 | 138,751 | 47.0 | 1,546 | 0.52 | 295,305 | 16.9 | 415,171 | 23.7 |
| 2 | 169,511 | 53.4 | 146,150 | 46.1 | 1,635 | 0.52 | 317,296 | 18.1 | 732,467 | 41.8 |
| 3 | 79,892 | 54.7 | 65,252 | 44.7 | 801 | 0.55 | 145,945 | 8.3 | 878,412 | 50.2 |
| 4 | 35,643 | 55.4 | 28,299 | 44.0 | 406 | 0.63 | 64,348 | 3.7 | 942,760 | 53.8 |
| 5 | 19,771 | 56.0 | 15,285 | 43.3 | 250 | 0.71 | 35,306 | 2.0 | 978,066 | 55.8 |
| Unknown child ≤5 | 1,189 | 42.5 | 1,034 | 37.0 | 572 | 20.47 | 2,795 | 0.2 | 980,861 | 56.0 |
| 6-12 | 60,056 | 55.9 | 46,530 | 43.3 | 910 | 0.85 | 107,496 | 6.1 | 1,088,357 | 62.1 |
| 13-19 | 47,559 | 40.8 | 68,331 | 58.7 | 581 | 0.50 | 116,471 | 6.7 | 1,204,828 | 68.8 |
| Unknown child | 1,591 | 37.3 | 1,419 | 33.3 | 1,254 | 29.41 | 4,264 | 0.2 | 1,209,092 | 69.0 |
| Total children (<20) | 632,677 | 52.3 | 567,419 | 46.9 | 8,996 | 0.74 | 1,209,092 | 69.0 | 1,209,092 | 69.0 |
| 20-29 | 59,942 | 44.7 | 73,935 | 55.1 | 330 | 0.25 | 134,207 | 7.7 | 1,343,299 | 76.7 |
| 30-39 | 51,797 | 43.0 | 68,393 | 56.8 | 214 | 0.18 | 120,404 | 6.9 | 1,463,703 | 83.6 |
| 40-49 | 28,003 | 41.3 | 39,654 | 58.5 | 137 | 0.20 | 67,794 | 3.9 | 1,531,497 | 87.4 |
| 50-59 | 12,274 | 38.5 | 19,593 | 61.4 | 52 | 0.16 | 31,919 | 1.8 | 1,563,416 | 89.3 |
| 60-69 | 8,016 | 37.0 | 13,639 | 62.9 | 37 | 0.17 | 21,692 | 1.2 | 1,585,108 | 90.5 |
| 70-79 | 5,344 | 34.7 | 10,037 | 65.1 | 38 | 0.25 | 15,419 | 0.9 | 1,600,527 | 91.4 |
| 80-89 | 2,585 | 30.3 | 5,925 | 69.5 | 20 | 0.23 | 8,530 | 0.5 | 1,609,057 | 91.9 |
| 90-99 | 400 | 26.3 | 1,120 | 73.5 | 3 | 0.20 | 1,523 | 0.1 | 1,610,580 | 92.0 |
| Unknown adult | 48,444 | 39.1 | 73,039 | 59.0 | 2,304 | 1.86 | 123,787 | 7.1 | 1,734,367 | 99.0 |
| Total adults | 216,805 | 41.3 | 305,335 | 58.1 | 3,135 | 0.60 | 525,275 | 30.0 | 1,734,367 | 99.0 |
| Unknown age | 5,857 | 34.2 | 8,041 | 47.0 | 3,211 | 18.80 | 17,109 | 1.0 | 1,751,476 | 100.0 |
| Total | 855,339 | 48.8 | 880,795 | 50.3 | 15,342 | 0.88 | 1,751,476 | 100.0 | 1,751,476 | 100.0 |

plemented in 1993. Thus, comparisons with data from previous years should be interpreted carefully. Definitions for these coding options are as follows (options marked with an asterisk are new in 1993): *Unintentional general*: All unintentional exposures not specifically defined below. Most unintentional exposures in children are captured here. *Environmental*: Any passive, nonoccupational exposure that results from contamination of air, water, or soil. Environmental exposures are usually, but not always, caused by man-made contaminants. *Occupational*: An exposure that occurs as a

direct result of the person being on the job or in the workplace. **Therapeutic error*: An unintentional deviation from a proper therapeutic regimen that results in the wrong dose, incorrect route of administration, administration to the wrong person, or administration of the wrong substance. Only exposures to medications or products substituted for medications are included. Drug interactions resulting from unintentional administration of drugs or foods that are known to interact are also included. *Unintentional misuse*: Unintentional improper or incorrect use of a nonpharmaceu-

TABLE 4. Distribution of Age and Gender for 626 Fatalities

| Age (yr) | Male | Female | Unknown | Total | % | Cumulative Total | Cumulative % |
|---------------|------|--------|---------|-------|-------|------------------|--------------|
| <1 | 4 | 1 | 0 | 5 | 0.8 | 5 | 0.8 |
| 1 | 7 | 5 | 0 | 12 | 1.9 | 17 | 2.7 |
| 2 | 2 | 2 | 0 | 4 | 0.6 | 21 | 3.4 |
| 3 | 1 | 1 | 0 | 2 | 0.3 | 23 | 3.7 |
| 4 | 2 | 1 | 0 | 3 | 0.5 | 26 | 4.2 |
| 5 | 1 | 0 | 0 | 1 | 0.2 | 27 | 4.3 |
| 6-12 | 6 | 3 | 0 | 9 | 1.4 | 36 | 5.8 |
| 13-19 | 29 | 32 | 0 | 61 | 9.7 | 97 | 15.5 |
| 20-29 | 50 | 43 | 0 | 93 | 14.9 | 190 | 30.4 |
| 30-39 | 88 | 61 | 0 | 149 | 23.8 | 339 | 54.2 |
| 40-49 | 57 | 57 | 0 | 114 | 18.2 | 453 | 72.4 |
| 50-59 | 19 | 26 | 0 | 45 | 7.2 | 498 | 79.6 |
| 60-69 | 21 | 23 | 0 | 44 | 7.0 | 542 | 86.6 |
| 70-79 | 25 | 13 | 0 | 38 | 6.1 | 580 | 92.7 |
| 80-89 | 11 | 10 | 0 | 21 | 3.4 | 601 | 96.0 |
| 90-99 | 2 | 7 | 0 | 9 | 1.4 | 610 | 97.4 |
| Unknown adult | 12 | 3 | 1 | 16 | 2.6 | 626 | 100.0 |
| Total | 337 | 288 | 1 | 626 | 100.0 | | |

TABLE 5. Number of Substances Involved in Human Poison Exposure Cases

| No. of Substances | No. of Cases | % of Cases |
|-------------------|--------------|------------|
| 1 | 1,631,914 | 93.2 |
| 2 | 90,992 | 5.2 |
| 3 | 16,464 | 0.9 |
| 4 | 6,191 | 0.4 |
| 5 | 2,426 | 0.1 |
| 6 | 1,028 | 0.1 |
| 7 | 415 | 0.0 |
| 8 | 237 | 0.0 |
| ≥9 | 1,809 | 0.1 |
| Total | 1,751,476 | 100.0 |

tical substance. Unintentional misuse differs from intentional misuse in that the exposure was unplanned or not foreseen by the patient. **Bite/sting*: All animal bites and stings, with or without envenomation, are included. **Food poisoning*: Suspected or confirmed food poisoning; ingestion of food contaminated with microorganisms is included. *Unintentional unknown*: An exposure determined to be unintentional but the exact reason is unknown. *Suspected suicidal*: An exposure resulting from the inappropriate use of a substance for reasons that are suspected to be self-destructive or manipulative. *Intentional misuse*: An exposure resulting from the intentional improper or incorrect use of a substance for reasons other than the pursuit of a psychotropic effect. *Intentional abuse*: An exposure resulting from the intentional improper or incorrect use of a substance in which the victim was likely attempting to achieve a euphoric or psychotropic effect. All recreational use of substances for any effect is included. *Intentional unknown*: An exposure that is determined to be intentional but the specific motive is unknown. **Contaminant/tampering*: The patient is an unintentional victim of a substance that has been adulterated (either maliciously or unintentionally) by the introduction of an undesirable substance. **Malicious*: This category is used to capture patients who are victims of another person's intent to harm them. *Adverse reaction*: An adverse event occurring with normal, prescribed, labeled, or recommended use of the product, as opposed to overdose, misuse, or abuse. Included are cases with an unwanted effect caused by an allergic, hypersensitive, or idiosyncratic response to the active ingredients, inactive ingredients, or excipients. Concomitant use of a contraindicated medication or food is excluded and is coded instead as a therapeutic error.

TABLE 6. Reason for Human Poison Exposure Cases

| | Reason | No. | % |
|------------------|-----------------------|-----------|-------|
| Unintentional | General | 1,199,418 | 68.5 |
| | Therapeutic error | 80,426 | 4.6 |
| | Bite/sting | 57,254 | 3.3 |
| | Misuse | 54,022 | 3.1 |
| | Environmental | 46,669 | 2.7 |
| | Occupational | 37,538 | 2.1 |
| | Food poisoning | 33,950 | 1.9 |
| Total | Unknown | 2,773 | 0.2 |
| | Total | 1,512,050 | 86.3 |
| Intentional | Suicidal | 132,788 | 7.6 |
| | Misuse | 26,663 | 1.5 |
| | Abuse | 19,632 | 1.1 |
| | Unknown | 11,890 | 0.7 |
| | Total | 190,973 | 10.9 |
| Other | Malicious | 5,403 | 0.3 |
| | Contaminant/tampering | 3,841 | 0.2 |
| | Total | 9,244 | 0.5 |
| Adverse Reaction | Drug | 23,230 | 1.3 |
| | Food | 5,879 | 0.3 |
| | Other | 4,806 | 0.3 |
| | Total | 33,915 | 1.9 |
| Unknown | | 5,294 | 0.3 |
| Total | | 1,751,476 | 100.0 |

The vast majority (86.3%) of poison exposures were unintentional; suicidal intent was present in 7.6% of cases (Table 6). Therapeutic errors comprised 4.6% of exposures (80,426 cases), with unintentional nonpharmaceutical product misuse comprising another 3.1% of exposures (54,022 cases). Unintentional poisonings outnumbered intentional poisonings in all age groups (Table 7). In contrast, of the 626 human poisoning fatalities reported, 83% of adult deaths (older than 19 years of age) were intentional (Table 8).

Ingestions accounted for 75.0% of exposure routes (Table 9), followed in frequency by dermal, inhalation, and ocular exposures, bites and stings, parenteral and aspiration exposures. For the 626 fatalities, ingestion and inhalation were the predominant exposure routes.

The coding of specific clinical effects (signs, symptoms, and laboratory abnormalities) was implemented in 1993. Clinical effects were coded in 30.4% of cases (18.0% had one effect, 7.6% had two effects, 3.2% had three effects, 1.1% had four effects, 0.4% had five effects, and 0.2% had more than five effects). Of the 1,126,855 clinical effects coded, 78.4% were deemed related, 6.1% were considered not related, and 15.5% were coded as "unknown if related."

TABLE 7. Distribution of Reason for Exposure by Age

| Reason | <6 Years | | 6-12 Years | | 13-19 Years | | >19 Years | | Unknown | | Total | |
|------------------|----------|-------|------------|-------|-------------|-------|-----------|-------|---------|-------|-----------|-------|
| | No. | Row % | No. | Row % | No. | Row % | No. | Row % | No. | Row % | No. | % |
| Unintentional | 973,966 | 64.4 | 97,006 | 6.4 | 57,428 | 3.8 | 368,430 | 24.4 | 15,220 | 1.0 | 1,512,050 | 86.3 |
| Intentional | 1,751 | 0.9 | 6,534 | 3.4 | 54,222 | 28.4 | 123,596 | 64.7 | 4,870 | 2.6 | 190,973 | 10.9 |
| Other | 1,115 | 12.1 | 1,235 | 13.4 | 1,583 | 17.1 | 5,091 | 55.1 | 220 | 2.4 | 9,244 | 0.5 |
| Adverse Reaction | 3,469 | 10.2 | 2,214 | 6.5 | 2,566 | 7.6 | 24,982 | 73.7 | 684 | 2.0 | 33,915 | 1.9 |
| Unknown | 560 | 10.6 | 507 | 9.6 | 672 | 12.7 | 3,176 | 60.0 | 379 | 7.2 | 5,294 | 0.3 |
| Total | 980,861 | 56.0 | 107,496 | 6.1 | 116,471 | 6.7 | 525,275 | 30.0 | 21,373 | 1.2 | 1,751,476 | 100.0 |

TABLE 8. Distribution of Reason for Exposure and Age for 626 Fatalities

| Reason | <6 Years | 6-12 Years | 13-19 Years | >19 Years | Total |
|-------------------|-------------|---------------|----------------|--------------|-------|
| Unintentional | | | | | |
| General | 14 | 0 | 0 | 5 | 19 |
| Environmental | 7 | 2 | 2 | 6 | 17 |
| Occupational | 0 | 0 | 1 | 8 | 9 |
| Therapeutic error | 3 | 2 | 0 | 24 | 29 |
| Misuse | 0 | 0 | 1 | 0 | 1 |
| Bite/sting | 0 | 0 | 0 | 1 | 1 |
| Food poisoning | 0 | 0 | 0 | 0 | 0 |
| Unknown | 1 | 0 | 0 | 5 | 6 |
| Total | 25 | 4 | 4 | 49 | 82 |
| Intentional | | | | | |
| Suicide | 0 | 1 | 34 | 303 | 338 |
| Misuse | 0 | 0 | 0 | 21 | 21 |
| Abuse | 1 | 0 | 16 | 73 | 90 |
| Unknown | 0 | 1 | 3 | 40 | 44 |
| Total | 1 | 2 | 53 | 437 | 493 |
| Other | 0 | 0 | 0 | 0 | 0 |
| Adverse Reaction | 0 | 0 | 1 | 13 | 14 |
| Unknown | 1 | 3 | 3 | 30 | 37 |
| Total | 27 | 9 | 61 | 529 | 626 |

The majority of cases reported to poison centers were managed in a non-health care facility (71.5%), usually at the site of exposure, the patient's home (Table 10). Treatment in a health care facility was rendered in 24.4% of cases and recommended in another 2.0% of patients who refused the referral. Of cases managed in a health care facility, 53.8% were treated and released without admission, 11.9% were admitted for critical care, and 7.1% were admitted for non-critical care. When treatment was provided in a health care facility, half of the patients (50.2%) were referred in by the poison center and the other half (49.8%) were already in or en route to the health care facility when the poison center was contacted. Health care facilities used included acute care hospitals (90.4%), freestanding emergency centers (2.4%), and physicians offices or clinics (7.2%).

Table 11 displays the medical outcome of the human poison exposure cases distributed by age, showing more severe outcomes in the older age groups. Table 12 compares medical outcome and reason for exposure and shows the greater frequency of serious outcome in intentional exposures. Table 13 shows the increasing duration of the clinical effects observed with more severe outcomes. Note the revised medical outcome categories as follows (those marked with an asterisk have changed): *No effect*: The patient developed no signs or symptoms as a result of the exposure. *Minor effect*: The patient developed some signs or symptoms as a result of the exposure, but they were minimally bothersome and generally resolved rapidly with no residual disability or disfigurement. A minor effect is often limited to the skin or mucous membranes (eg, self-limited gastrointestinal symptoms, drowsiness, skin irritation, first degree dermal burn, sinus tachycardia without hypotension, and transient cough). *Moderate effect*: The patient exhibited signs or symptoms as a result of the exposure that were more pronounced, more prolonged, or more of a systemic nature than minor symp-

TABLE 9. Distribution of Route of Exposure for Human Poison Exposure Cases and 626 Fatalities

| Route | All Exposure Cases | | Fatal Exposure Cases | |
|------------------|-----------------------|-------|-------------------------|-------|
| | No. | % | No. | % |
| Ingestion | 1,378,853 | 75.0 | 507 | 75.8 |
| Dermal | 138,147 | 7.5 | 4 | 0.6 |
| Inhalation | 120,770 | 6.6 | 77 | 11.5 |
| Ocular | 113,297 | 6.2 | 0 | 0.0 |
| Bites and stings | 64,835 | 3.5 | 1 | 0.1 |
| Parenteral | 5,489 | 0.3 | 38 | 5.7 |
| Aspiration | 4,220 | 0.2 | 17 | 2.5 |
| Other | 6,097 | 0.3 | 1 | 0.1 |
| Unknown | 5,818 | 0.3 | 24 | 3.6 |
| Total | 1,837,526 | 100.0 | 669 | 100.0 |

NOTE: Multiple routes of exposure were observed in many poison exposure victims. Percentage is based on the total number of exposure routes (1,837,526 for all patients, 669 for fatal cases) rather than the total number of human exposures (1,751,476) or fatalities (626).

toms. Usually some form of treatment is indicated. Symptoms were not life-threatening, and the patient has no residual disability or disfigurement (eg, corneal abrasion, acid-base disturbance, high fever, disorientation, hypotension that is rapidly responsive to treatment, and isolated brief seizures that respond readily to treatment). *Major effect*: The patient exhibited signs or symptoms as a result of the exposure that were life-threatening or resulted in significant residual disability or disfigurement (eg, repeated seizures or status epilepticus, respiratory compromise requiring intubation, ventricular tachycardia with hypotension, cardiac or respiratory arrest, esophageal stricture, and disseminated intravascular coagulation). *Death*: The patient died as a result of the exposure or as a direct complication of the exposure. Only those deaths that were probably or undoubtedly related to the exposure are coded here. **Not followed, judged as nontoxic exposure*: No follow-up calls were made to determine the patient's outcome because the substance impli-

TABLE 10. Management Site of Human Poison Exposure Cases

| Site | No. | % |
|--|-----------|-------|
| Managed on-site, nonhealth care facility | 1,252,084 | 71.5 |
| Managed in health care facility | | |
| Treated and released | 230,290 | 13.1 |
| Admitted to critical care | 51,316 | 2.9 |
| Admitted to noncritical care | 30,484 | 1.7 |
| Admitted to psychiatry | 19,011 | 1.1 |
| Lost to followup; left AMA | 80,808 | 4.6 |
| Unspecified level of care | 16,124 | 0.9 |
| Subtotal | 428,033 | 24.4 |
| Other | 14,269 | 0.8 |
| Refused referral | 34,093 | 1.9 |
| Unknown | 22,997 | 1.3 |
| Total | 1,751,476 | 100.0 |

ABBREVIATION: AMA, against medical advice.

TABLE 11. Medical Outcome of Human Poison Exposure Cases by Patient Age

| Outcome | <6 Years | | 6-12 Years | | 13-19 Years | | >19 Years | | Unknown | | Total | |
|---------------------------------|----------|-------|------------|-------|-------------|-------|-----------|-------|---------|-------|-----------|-------|
| | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | % |
| No effect | 327,599 | 33.3 | 20,150 | 18.7 | 21,302 | 18.3 | 59,205 | 11.3 | 2,015 | 10.4 | 430,271 | 24.6 |
| Minor effect | 120,308 | 12.2 | 26,546 | 24.7 | 35,649 | 30.6 | 158,334 | 30.1 | 3,473 | 18.0 | 344,310 | 19.7 |
| Moderate effect | 8,834 | 0.9 | 2,896 | 2.7 | 9,622 | 8.3 | 43,768 | 8.3 | 665 | 3.4 | 65,785 | 3.8 |
| Major effect | 668 | 0.1 | 171 | 0.2 | 904 | 0.8 | 6,031 | 1.1 | 62 | 0.3 | 7,836 | 0.4 |
| Death | 27 | 0.0 | 9 | 0.0 | 61 | 0.1 | 529 | 0.1 | 0 | 0.0 | 626 | 0.0 |
| No follow-up, nontoxic | 273,233 | 27.8 | 22,075 | 20.5 | 9,585 | 8.2 | 43,696 | 8.3 | 2,757 | 14.3 | 351,346 | 20.1 |
| No follow-up, minimal toxicity | 204,073 | 20.8 | 25,897 | 24.1 | 19,382 | 16.6 | 110,443 | 21.0 | 3,779 | 19.6 | 363,574 | 20.8 |
| No follow-up, potentially toxic | 31,701 | 3.2 | 6,338 | 5.9 | 16,476 | 14.1 | 75,932 | 14.5 | 5,983 | 31.0 | 136,430 | 7.8 |
| Unrelated effect | 16,474 | 1.7 | 3,414 | 3.2 | 3,490 | 3.0 | 27,337 | 5.2 | 583 | 3.0 | 51,298 | 2.9 |
| Total | 982,917 | 100.0 | 107,496 | 100.0 | 116,471 | 100.0 | 525,275 | 100.0 | 19,317 | 100.0 | 1,751,476 | 100.0 |

TABLE 12. Distribution of Medical Outcome by Reason for Exposure for Human Poison Exposure Cases

| Outcome | Unintentional | | Intentional | | Other | | Adverse Reaction | | Unknown | | Total | |
|---------------------------------|---------------|-------|-------------|-------|-------|-------|------------------|-------|---------|-------|-----------|-------|
| | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | % |
| No effect | 391,582 | 25.9 | 36,312 | 19.0 | 1,282 | 13.9 | 658 | 1.9 | 437 | 8.3 | 430,271 | 24.6 |
| Minor effect | 276,851 | 18.3 | 53,922 | 28.2 | 2,721 | 29.4 | 9,904 | 29.2 | 912 | 17.2 | 344,310 | 19.7 |
| Moderate effect | 37,854 | 2.5 | 24,003 | 12.6 | 357 | 3.9 | 3,003 | 8.9 | 568 | 10.7 | 65,785 | 3.8 |
| Major effect | 2,126 | 0.1 | 5,310 | 2.8 | 34 | 0.4 | 168 | 0.5 | 198 | 3.7 | 7,836 | 0.4 |
| Death | 82 | 0.0 | 493 | 0.3 | 0 | 0.0 | 14 | 0.0 | 37 | 0.7 | 626 | 0.0 |
| No follow-up, nontoxic | 344,088 | 22.8 | 4,639 | 2.4 | 1,205 | 13.0 | 1,181 | 3.5 | 233 | 4.4 | 351,346 | 20.1 |
| No follow-up, minimal toxicity | 335,634 | 22.2 | 15,380 | 8.1 | 1,939 | 21.0 | 9,875 | 29.1 | 746 | 14.1 | 363,574 | 20.8 |
| No follow-up, potentially toxic | 82,503 | 5.5 | 46,898 | 24.6 | 1,202 | 13.0 | 4,287 | 12.6 | 1,540 | 29.1 | 136,430 | 7.8 |
| Unrelated effect | 41,330 | 2.7 | 4,016 | 2.1 | 504 | 5.5 | 4,825 | 14.2 | 623 | 11.8 | 51,298 | 2.9 |
| Total | 1,512,050 | 100.0 | 190,973 | 100.0 | 9,244 | 100.0 | 33,915 | 100.0 | 5,294 | 100.0 | 1,751,476 | 100.0 |

TABLE 13. Duration of Clinical Effects by Medical Outcome

| Duration of effect | Minor effect Col (%) | Moderate effect Col (%) | Major effect Col (%) |
|-----------------------|-------------------------|----------------------------|-------------------------|
| ≤2 hours | 36.82 | 5.82 | 2.16 |
| >2 hours, ≤8 hours | 22.13 | 18.61 | 6.71 |
| >8 hours, ≤24 hours | 15.54 | 26.67 | 23.57 |
| >24 hours, ≤3 days | 4.23 | 14.96 | 29.62 |
| >3 days, ≤1 week | 1.05 | 4.88 | 11.78 |
| >1 week, ≤1 month | .31 | 1.58 | 4.49 |
| >1 month | .16 | .54 | .94 |
| Anticipated permanent | .02 | .15 | 2.07 |
| Unknown | 19.76 | 26.80 | 18.66 |

TABLE 14. Decontamination and Therapeutic Intervention

| Therapy | No. of patients | % |
|---|-----------------|------|
| Decontamination only | 926,187 | 52.9 |
| No therapy provided | 201,199 | 11.5 |
| Observation only | 197,576 | 11.3 |
| Decontamination and other therapy | 103,597 | 5.9 |
| Other therapy only (no decontamination) | 72,677 | 4.2 |
| Unknown if therapy provided/patient refused | 250,240 | 14.3 |

cated was nontoxic, the amount implicated was insignificant, or the route of exposure was unlikely to result in a clinical effect. *Not followed, minimal clinical effects possible: No follow-up calls were made to determine the patient's outcome because the exposure was likely to result in only minimal toxicity of a trivial nature. (The patient was expected to experience no more than a minor effect.) *Unable to follow, judged as a potentially toxic exposure:* The patient was lost to follow-up, refused follow-up, or was not followed, but the exposure was significant and may have resulted in a moderate, major, or fatal outcome. *Unrelated effect:* The exposure was probably not responsible for the effect. *Confirmed non-exposure:* This outcome option was used during coding to designate cases in which there was reliable and objective evidence that an exposure initially believed to have occurred actually never occurred (eg, all missing pills are later located). All cases coded as confirmed nonexposure are excluded from this report. In 1993, there were 5,575 such cases reported nationally.

Table 14 and 15 outline the use of decontamination procedures, specific antidotes, and measures to enhance elimination in the treatment of patients reported in this database. These must be interpreted as minimum frequencies because of the limitations of telephone data gathering. Ipecac syrup was administered in 3.7% of cases. In children younger than 6 years of age, ipecac syrup was most often administered outside a health care facility. This pattern was reversed in teenagers and adults. Table 16 shows a continued decrease

TABLE 15. Therapy Provided in Human Exposure Cases

| Therapy | No. |
|---|---------|
| Decontamination | |
| Dilution/irrigation | 749,371 |
| Activated charcoal, single dose | 114,563 |
| Cathartic | 90,369 |
| Ipecac syrup | 65,205 |
| Gastric lavage | 60,406 |
| Activated charcoal, multidose | 17,284 |
| Other emetic | 4,718 |
| Whole bowel irrigation | 1,250 |
| Measure to Enhance Elimination | |
| Alkalinization (with or without diuresis) | 7,398 |
| Hemodialysis | 646 |
| Other extracorporeal procedure | 80 |
| Hemoperfusion (charcoal or resin) | 64 |
| Specific Antidote Administration | |
| N-acetylcysteine (oral) | 7,493 |
| Naloxone | 6,800 |
| Flumazenil | 2,520 |
| Atropine | 778 |
| Deferoxamine | 721 |
| Antivenin | 560 |
| Hyperbaric oxygen | 550 |
| Ethanol | 472 |
| N-acetylcysteine (IV) | 316 |
| Phytonadione | 291 |
| Pyridoxine | 257 |
| Pralidoxime (2-PAM) | 203 |
| Physostigmine | 189 |
| Fab fragments | 174 |
| Dimercaprol (BAL) | 113 |
| EDTA | 112 |
| Succimer | 76 |
| Penicillamine | 67 |
| Sodium thiosulfate | 67 |
| Folate | 66 |
| Methylene blue | 61 |
| Sodium nitrite | 53 |
| Hydroxocobalamin | 10 |
| Other intervention | |
| ECMO | 17 |
| Transplantation | 12 |
| Intubation | 5,139 |

TABLE 16. Decontamination Trends

| Year | Human Exposures Reported | % of Exposures Involving Children <6 Years | Ipecac Administered (% of Exposures) | Activated Charcoal Administered (% of Exposures) |
|------|--------------------------|--|--------------------------------------|--|
| 1983 | 251,012 | 64.0 | 13.4 | 4.0 |
| 1984 | 730,224 | 64.1 | 12.9 | 4.0 |
| 1985 | 900,513 | 63.4 | 15.0 | 4.6 |
| 1986 | 1,098,894 | 63.0 | 13.3 | 5.2 |
| 1987 | 1,166,940 | 62.3 | 10.1 | 5.2 |
| 1988 | 1,368,748 | 61.8 | 8.4 | 6.5 |
| 1989 | 1,581,540 | 61.1 | 7.0 | 6.4 |
| 1990 | 1,713,462 | 60.8 | 6.1 | 6.7 |
| 1991 | 1,837,939 | 59.9 | 5.2 | 7.0 |
| 1992 | 1,864,188 | 58.8 | 4.3 | 7.3 |
| 1993 | 1,751,476 | 56.0 | 3.7 | 7.3 |

TABLE 17. Substances Most Frequently Involved in Human Exposures

| Substance | No. | %* |
|--------------------------------------|---------|------|
| Cleaning substances | 180,161 | 10.3 |
| Analgesics | 167,762 | 9.6 |
| Cosmetics and personal care products | 143,861 | 8.2 |
| Cough and cold preparations | 105,588 | 6.0 |
| Plants | 94,725 | 5.4 |
| Bites/envenomations | 72,637 | 4.1 |
| Topicals | 64,697 | 3.7 |
| Pesticides (includes rodenticides) | 64,298 | 3.7 |
| Foreign bodies | 61,640 | 3.5 |
| Antimicrobials | 60,435 | 3.5 |
| Food products, food poisoning | 59,997 | 3.4 |
| Hydrocarbons | 58,636 | 3.3 |
| Sedatives/hypnotics/antipsychotics | 54,521 | 3.1 |
| Alcohols | 46,594 | 2.7 |
| Chemicals | 44,240 | 2.5 |
| Vitamins | 41,547 | 2.4 |
| Antidepressants | 40,549 | 2.3 |

NOTE: Despite a high frequency of involvement, these substances are not necessarily the most toxic, but rather may only be the most readily accessible.

*Percentages are based on the total number of human exposures rather than the total number of substances.

in the use of ipecac-induced emesis in the treatment of poisoning.

Table 17 presents the most common substance categories listed by frequency of exposure. Table 18 lists the substance categories with the largest number of reported deaths; analgesics and antidepressants led this list. A remarkable chronological constancy of selected demographic data elements is shown in Table 19.

A breakdown of plant exposures is provided for those most commonly implicated (Table 20). The reader is cautioned to interpret this as frequency of involvement of plants in calls to poison centers with no correlation to severity of toxicity. Indeed, several of the plants on this list pose little if any ingestion hazard.

TABLE 18. Categories with Largest Numbers of Deaths

| Category | No. | % of All Exposures in Category |
|-----------------------------------|-----|--------------------------------|
| Analgesics | 172 | 0.103 |
| Antidepressants | 151 | 0.372 |
| Stimulants and street drugs | 92 | 0.395 |
| Sedative/hypnotics/antipsychotics | 80 | 0.147 |
| Cardiovascular drugs | 74 | 0.285 |
| Alcohols | 62 | 0.133 |
| Gases and fumes | 34 | 0.106 |
| Chemicals | 33 | 0.075 |
| Asthma therapies | 27 | 0.162 |
| Hydrocarbons | 22 | 0.038 |
| Cleaning substances | 21 | 0.012 |

TABLE 19. 10-Year Comparisons of Fatality Data

| Year | Total Fatalities | | Suicides | | Pediatric Deaths (<6 years) | |
|------|------------------|-------|----------|-------------|-----------------------------|-------------|
| | No. | % | No. | % of deaths | No. | % of deaths |
| 1983 | 95 | 0.038 | 60 | 63.2 | 10 | 10.5 |
| 1984 | 293 | 0.040 | 165 | 56.3 | 21 | 7.2 |
| 1985 | 328 | 0.036 | 178 | 54.3 | 20 | 6.1 |
| 1986 | 406 | 0.037 | 223 | 54.9 | 15 | 3.7 |
| 1987 | 397 | 0.034 | 226 | 56.9 | 22 | 5.5 |
| 1988 | 545 | 0.040 | 297 | 54.5 | 28 | 5.1 |
| 1989 | 590 | 0.037 | 323 | 54.7 | 24 | 4.1 |
| 1990 | 612 | 0.036 | 350 | 57.2 | 25 | 4.1 |
| 1991 | 764 | 0.042 | 408 | 53.4 | 44 | 5.8 |
| 1992 | 705 | 0.038 | 395 | 56.0 | 29 | 4.1 |
| 1993 | 626 | 0.036 | 338 | 54.0 | 27 | 4.3 |

A summary of the 626 fatal exposures is presented in Table 21. Each of these cases was abstracted and verified by the reporting center, with only those exposures deemed "probably" or "undoubtedly" responsible for the fatality included in this compendium. Confirmation of the cause of death by a postmortem report was obtained in 28% of cases. The highest blood level of implicated substances is provided where available to the reporting poison center. Prehospital cardiac and/or respiratory arrests occurred in 35% of all fatalities, and these are indicated in Table 22.

Tables 22A and 22B provide comprehensive demographic data on patient age, reason for exposure, medical outcome, and use of a health care facility for all 1,751,476 exposures, presented by category. Table 22A focuses on nonpharmaceuticals; Table 22B presents drugs. Of the 1,868,836 substances logged in Tables 22A and 22B, 57.6% were nonpharmaceuticals and 42.4% were pharmaceuticals. The reason for the exposure was intentional for 26.2% of pharmaceutical substances implicated compared with only 4.1% of nonpharmaceutical substances. Correspondingly, treatment in a

TABLE 20. Frequency of Plant Exposures by Plant Type

| Botanical Name | Common Name | Frequency |
|------------------------------------|----------------------|-----------|
| <i>Philodendron</i> species | philodendron | 4,726 |
| <i>Capsicum annuum</i> | pepper | 3,912 |
| <i>Dieffenbachia</i> species | dumbcane | 2,837 |
| <i>Euphorbia pulcherrima</i> | poinsettia | 2,798 |
| <i>Ilex</i> species | holly | 2,651 |
| <i>Phytolacca americana</i> | pokeweed, inkberry | 2,231 |
| <i>Spathiphyllum</i> species | peace lily | 2,086 |
| <i>Crassula</i> species | jade plant | 1,658 |
| <i>Epipremnum aureum</i> | pothos, devil's ivy | 1,401 |
| <i>Toxicodendron/Rhus radicans</i> | poison ivy | 1,306 |
| <i>Brassaia actinophylla</i> | umbrella tree | 1,141 |
| <i>Saintpaulia ionantha</i> | African violet | 1,137 |
| <i>Rhododendron</i> species | rhododendron, azalea | 1,029 |
| <i>Taxus</i> species | yew | 969 |
| <i>Eucalyptus Globulus</i> | eucalyptus | 945 |
| <i>Pyracantha</i> species | pyracantha | 894 |
| <i>Chlorophytum comosum</i> | spider plant | 787 |
| <i>Schlumbergera bridgesii</i> | Christmas cactus | 781 |
| <i>Hedera helix</i> | English ivy | 765 |
| <i>Solanum dulcamara</i> | climbing nightshade | 754 |

health care facility was provided in a higher percentage of exposure to pharmaceutical substances (37.2%) compared with nonpharmaceutical substances. Correspondingly, treatment in a health care facility was provided in a higher percentage of exposures to pharmaceutical substances (37.2%) compared with nonpharmaceutical substances (19.1%). Pharmaceutical exposures also had more severe outcomes. Of substances implicated in fatal cases, 76.5% were pharmaceuticals, compared with only 42.4% in nonfatal cases. Similarly, 76.5% of substances implicated in major outcomes were pharmaceuticals.

In closing, we gratefully acknowledge the extensive contributions of each participating poison center and the assistance of the many physicians and nurses who provided comprehensive data to the poison centers for inclusion in this database.

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|-----------------|-------|---------------------------|------------|-----------|-------------|--------------|
| Adhesives/glues | | | | | | |
| Alcohols | | | | | | |
| 1 ^P | 17 yr | Ethanol | A | Ingestion | Int unknown | 400 mg/dL |
| 2 | 30 yr | Ethanol | A/C | Ingestion | Int abuse | 186 mg/dL |
| 3 | 36 yr | Ethanol | C | Ingestion | Int abuse | |
| 4 | 45 yr | Ethanol | C | Ingestion | Int abuse | |
| 5 | 71 yr | Ethanol (rubbing alcohol) | A/C | Ingestion | Int suicide | |
| 6 | 36 yr | Ethanol | C | Ingestion | Int abuse | |
| 7 | 69 yr | acetaminophen | | | | 84 µg/mL |
| | | Ethanol | C | Ingestion | Int unknown | >24 h |
| 8 | 46 yr | acetaminophen | | | | |
| | | Ethanol | A/C | Ingestion | Int suicide | 99 µg/mL |
| | | acetaminophen | | | | |
| | | aspirin | | | | |
| 9 ^P | 22 yr | Ethanol | U | Ing/Inhal | Int abuse | |
| 10 | 46 yr | air freshener propellant | | | | |
| | | Ethanol | U | Ingestion | Int abuse | |
| | | chlorpromazine | | | | |
| 11 | 31 yr | Ethanol | A | Ingestion | Int abuse | 403 mg/dL |
| | | cocaine | | | | |
| 12 | 30 yr | Ethanol | A/C | Ingestion | Int suicide | |
| | | propranolol | | | | |
| | | nifedipine | | | | |
| 13 | 15 yr | Methanol | A | Ingestion | Int abuse | 99 mg/dL |
| 14 | 38 yr | Methanol | A | Ingestion | Int abuse | 2 d |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|--|--------|---|------------|----------------|--------------|-------------------------|
| 15 | 44 yr | Methanol | A | Ingestion | Int suicide | 129 mg/dL |
| 16 | 56 yr | Methanol | A | Ingestion | Int suicide | |
| 17 | 75 yr | Methanol | U | Ingestion | Int abuse | 314 mg/dL |
| 18 | >19 yr | Methanol | A | Ingestion | Int suicide | 300 mg/dL |
| 19 | 44 yr | Methanol | A | Ingestion | Int abuse | |
| 20 ^P | 38 yr | isopropanol Methanol lead | A | Ingestion | Int suicide | 170 mg/dL 70 µg/dL |
| <i>See also cases 24, 30, 52, 108, 109, 110, 124, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 207, 218, 220, 245, 246, 311, 312, 313, 314, 323, 355, 385, 395, 408, 443, 459, 478, 495, 503, 515, 520, 521, 524, 527, 549, 563, 589, 592, 596, 617 (ethanol); 19 (isopropanol).</i> | | | | | | |
| Arts/crafts/office supplies | | | | | | |
| 21 ^P | 16 yr | Typewriter correction fluid | A/C | Inhalation | Int abuse | |
| Automotive products | | | | | | |
| 22 ^P | 40 yr | Antifreeze (ethylene glycol) | A | Ingestion | Int suicide | 335 mg/dL§ |
| 23 | 50 yr | Antifreeze (ethylene glycol) | U | Ingestion | Int suicide | 13 mg/dL |
| | | acetaminophen | | | | 100 µg/mL |
| 24 ^P | 48 yr | Gasoline additive (methanol) | A | Ingestion | Int suicide | 282 mg/dL |
| | | ethanol | | | | 12 mg/dL |
| 25 | 20s yr | Gasoline antifreeze (methanol) | A | Ingestion | Int suicide | 170 mg/dL |
| 26 | 29 yr | Windshield washer fluid (methanol) | A | Ingestion | Int abuse | 347 mg/dL |
| 27 | 45 yr | Windshield washer fluid (methanol) | A | Ingestion | Int suicide | |
| 28 | 31 yr | Windshield washer fluid (methanol) | A | Ingestion | Int suicide | 129 mg/dL |
| | | glass cleaner | | | | |
| Batteries | | | | | | |
| 29 | 58 yr | Sulfuric acid (from auto battery) | A | Ingestion | Int suicide | |
| Bites and envenomations | | | | | | |
| 30 ^P | 40 yr | Hymenoptera ethanol | A | Bite/sting/Ing | Bite/sting | 320 mg/dL |
| Chemicals | | | | | | |
| 31 | 67 yr | Alum | A | Other | Ther error | |
| 32 ^P | 26 yr | Ammonia, anhydrous | A | Inhalation | Occ | |
| 33 ^P | 31 yr | Ammonia | A | Derm/Inhal | Occ | |
| 34 ^P | 37 yr | Ammonia, anhydrous | A | Inhalation | Occ | |
| 35 | 22 mo | Ammonium dichromate | A | Ingestion | Unint gen | RBC chromium 7,795 µg/L |
| 36 | 14 yr | Bromide | C | Ingestion | Adv rxn | |
| 37 | 38 yr | Bromoethylamine hydrobromide | A | Ingestion | Int suicide | |
| | | thallous acetate | | | | |
| | | thimerosal | | | | |
| 38 ^{i,P} | 15 mo | Cyanide | U | Unknown | Unint unk | 0.81 µg/mL§ |
| 39 ^P | 4 yr | Cyanide | A | Ingestion | Unint gen | 8 µg/mL |
| 40 ^P | 31 yr | Cyanide | A | Ingestion | Int suicide | 13.9 µg/mL |
| 41 ^P | 41 yr | Cyanide, sodium | A | Unknown | Int suicide | 2.85 µg/mL§ |
| 42 ^P | 52 yr | Cyanide | A | Ingestion | Int suicide | 38.6 µg/mL§ |
| 43 | 24 yr | Ethylene glycol | A | Ingestion | Int suicide | 11 mg/dL |
| 44 | 24 yr | Ethylene glycol | A | Ingestion | Int suicide | 144 mg/dL |
| 45 | 25 yr | Ethylene glycol | A | Ingestion | Int abuse | 115 mg/dL |
| 46 | 26 yr | Ethylene glycol | A | Ingestion | Int abuse | 300 mg/dL§ |
| 47 ^P | 39 yr | Ethylene glycol | A | Ingestion | Int abuse | 10 mg/dL |
| 48 | 59 yr | Ethylene glycol | A | Ingestion | Unknown | 23 mg/dL |
| 49 | 59 yr | Ethylene glycol | A | Ingestion | Int suicide | 211 mg/dL |
| 50 | 69 yr | Ethylene glycol | A | Ingestion | Int unknown | 58 mg/dL |
| 51 | 39 yr | Ethylene glycol | A | Ingestion | Int unknown | 555 mg/dL |
| | | diphenhydramine | | | | |
| 52 ^P | 46 yr | Ethylene glycol | A | Ingestion | Int suicide | 162 mg/dL |
| | | ethanol | | | | |
| 53 | 87 yr | Nitric acid | A | Ingestion | Int suicide | |
| 54 | 32 yr | Nitric acid | A | Ingestion | Int suicide | |
| | | potassium ferrocyanide | | | | |
| 55 | 47 yr | N,N-dimethyl aniline | A | Ingestion | Int suicide | methemoglobin 75% |
| | | long-acting anticoagulant rodenticide | | | | |
| 56 | 16 yr | Potassium hydroxide | A | Aspir/Ing | Unint misuse | |
| | | lithium hydroxide | | | | |
| 57 | 26 yr | Sodium azide | A | Ingestion | Int suicide | |
| 58 ^P | 27 yr | Strychnine | A | Ingestion | Int suicide | 5 mg/L§ |
| | | theophylline | | | | 6 µg/mL§ |
| | | flunixin | | | | |
| 59 | 72 yr | Sulfuric acid | A | Ingestion | Int suicide | |
| <i>See also cases 112 (cyanide); 192 (ethylene glycol); and 54 (potassium ferrocyanide).</i> | | | | | | |
| Cleaning substances | | | | | | |
| 60 | 2 yr | Bleach (sodium hypochlorite, 5.4%) | A | Inhalation | Env | |
| 61 | 66 yr | Bleach (sodium hypochlorite, 5-10%; sodium carbonate; sodium chloride) | A | Ingestion | Int suicide | |
| 62 | 65 yr | Cleaning solution (acid) | A | Ingestion | Int suicide | |
| 63 | 93 yr | Deodorizing cleaner (cationic) | A | Aspir/Ing | Unint gen | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|---|--------|---|------------|------------|-------------|-------------------|
| 64 | 14 yr | Drain opener (sodium hydroxide crystals) | A | Ingestion | Int suicide | |
| 65 | 26 yr | Drain opener (sulfuric acid) | A | Ingestion | Int suicide | |
| 66 ^P | 59 yr | Drain opener (hydrochloric acid) | A | Ingestion | Int suicide | |
| 67 | 70 yr | Drain opener (94% sulfuric acid) | A | Ingestion | Int suicide | |
| 68 | 48 yr | Drain opener (sodium hydroxide) drain opener (potassium hydroxide) ant and roach killer (unspecified) | A | Ingestion | Int suicide | |
| 69 | 80 yr | Laundry detergent (liquid) | A | Aspir/Ing | Int suicide | |
| 70 | 61 yr | Oven cleaner (alkali) | A | Ingestion | Int suicide | |
| 71 | 80 yr | Pine oil disinfectant/cleaner | A | Aspir/Ing | Unint gen | |
| 72 | 40 yr | Plastic/leather cleaner (butyl cellosolve/propane/isobutane) cocaine | A/C | Inhalation | Int abuse | |
| 73 | 83 yr | Rust remover (6-8% hydrofluoric acid) acetaminophen/hydrocodone acetaminophen/diphenhydramine | A | Ingestion | Int suicide | |
| 74 | 48 yr | Toilet bowl cleaner (HCl) | A | Ingestion | Int unknown | |
| 75 | 68 yr | Toilet bowl cleaner (HCl) | A | Ingestion | Int suicide | |
| 76 | 75 yr | Toilet bowl cleaner | A | Ingestion | Int suicide | |
| 77 | 79 yr | Toilet bowl cleaner (HCl) | A | Ingestion | Int suicide | |
| 78 ^P | 16 yr | VCR head cleaner | A | Inhalation | Int abuse | |
| <i>See also cases 28 (glass cleaner); 56 (lithium hydroxide); 68 (potassium hydroxide); and 248 (sodium hypochlorite household bleach).</i> | | | | | | |
| Cosmetics and personal care products | | | | | | |
| 79 | 75 yr | Liquid soap | A | Aspir/Ing | Unint gen | |
| <i>See also cases 203 (mouthwash); and 202 (nail polish remover).</i> | | | | | | |
| Deodorizers | | | | | | |
| <i>See also case 9 (air freshener propellant).</i> | | | | | | |
| Food products and food poisoning | | | | | | |
| <i>See also case 358 (mint extract, 90% ethanol).</i> | | | | | | |
| Foreign bodies, toys and miscellaneous | | | | | | |
| <i>See also case 143 (activated charcoal).</i> | | | | | | |
| Fumes, gases and vapors | | | | | | |
| 80 ^P | 4 mo | Carbon monoxide/smoke | A | Inhalation | Env | 52% |
| 81 | 2 yr | Carbon monoxide | A | Inhalation | Env | |
| 82 ^P | 2 yr | Carbon monoxide | A | Inhalation | Env | 55% |
| 83 | 3 yr | Carbon monoxide | A | Inhalation | Env | |
| 84 | 4 yr | Carbon monoxide | A | Inhalation | Env | |
| 85 | 4 yr | Carbon monoxide/smoke | A | Inhalation | Env | 15% |
| 86 ^P | 8 yr | Carbon monoxide/smoke | A | Inhalation | Env | 57% |
| 87 ^P | 10 yr | Carbon monoxide | A | Inhalation | Env | |
| 88 ^P | 13 yr | Carbon monoxide | A | Inhalation | Env | |
| 89 ^P | 16 yr | Carbon monoxide | A | Inhalation | Env | 62% |
| 90 ^P | 21 yr | Carbon monoxide | A | Inhalation | Int suicide | 73% |
| 91 | 22 yr | Carbon monoxide | A | Inhalation | Int suicide | 19% |
| 92 ^P | 23 yr | Carbon monoxide | A | Inhalation | Int suicide | 48% |
| 93 ^P | 25 yr | Carbon monoxide | A | Inhalation | Int suicide | 77% |
| 94 ^P | 29 yr | Carbon monoxide | A | Inhalation | Env | 40% |
| 95 | 32 yr | Carbon monoxide | A | Inhalation | Int suicide | 67% |
| 96 ^P | 32 yr | Carbon monoxide | A | Inhalation | Int suicide | |
| 97 ^P | 37 yr | Carbon monoxide | C | Inhalation | Env | |
| 98 ^P | 40s yr | Carbon monoxide | A | Inhalation | Int suicide | |
| 99 ^{h,P} | 41 yr | Carbon monoxide | U | Inhalation | Int suicide | 81% |
| 100 ^P | 42 yr | Carbon monoxide | A | Inhalation | Occ | 44% |
| 101 ^P | 42 yr | Carbon monoxide | A | Inhalation | Int suicide | 49% |
| 102 ^P | 44 yr | Carbon monoxide | A | Inhalation | Int suicide | 47% |
| 103 ^P | 44 yr | Carbon monoxide | A | Inhalation | Env | 35% |
| 104 ^P | 44 yr | Carbon monoxide | A | Inhalation | Env | 44% |
| 105 ^P | 46 yr | Carbon monoxide | A | Inhalation | Int suicide | 60% |
| 106 ^P | >19 yr | Carbon monoxide | A | Inhalation | Int suicide | 66%§ |
| 107 ^P | 17 yr | Carbon monoxide | A | Inhalation | Int suicide | 98%§ |
| | | cocaine | | | | |
| | | diazepam | | | | .14 µg/mL§ |
| 108 | 35 yr | Carbon monoxide/smoke ethanol | A | Ing/Inhal | Env | 27% |
| 109 ^P | 36 yr | Carbon monoxide ethanol | A | Ing/Inhal | Int suicide | 464 mg/dL 65%§ |
| 110 | 57 yr | Carbon monoxide/smoke ethanol | A | Ing/Inhal | Env | 93 mg/dL 45% |
| 111 ^P | 25 yr | Hydrogen sulfide | A | Inhalation | Occ | |
| 112 ^P | 26 yr | Hydrogen sulfide cyanide methane | A | Inhalation | Occ | |
| <i>See also case 112 (methane).</i> | | | | | | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|--|-------|---|------------|----------------|-------------|-----------------------------------|
| Heavy metals | | | | | | |
| 113 | 26 yr | Arsenic trioxide | A | Ingestion | Int suicide | |
| 114 | 25 yr | Mercuric chloride | A | Ingestion | Int suicide | |
| 115 | 35 yr | Mercury (elemental) | A | Inhalation | Int suicide | 438 µg/L 3 d |
| See also cases 20 (lead); 37 (thallous acetate); and 37 (thimerosal). | | | | | | |
| Hydrocarbons | | | | | | |
| 116P | 14 yr | Butane | A | Inhalation | Int abuse | |
| 117P | 14 yr | Butane | A | Inhalation | Int abuse | |
| 118P | 16 yr | Butane | A | Inhalation | Int abuse | |
| 119P | 16 yr | Butane (lighter) | A | Inhalation | Int abuse | |
| 120P | 17 yr | Butane | A | Inhalation | Int abuse | |
| 121P | 17 yr | Butane | A | Inhalation | Int abuse | |
| 122P | 19 yr | Chlorofluorocarbon | A | Inhalation | Int abuse | |
| 123P | 19 yr | Chlorofluorocarbon propellant | A/C | Inhalation | Int abuse | |
| 124P | 21 yr | Chlorofluorocarbon ethanol | A/C | Ing/Inhal | Int abuse | 120 mg/dL |
| 125 | 9 yr | Cooking oil spray | U | Aspir/Inhal | Unknown | |
| 126P | 15 mo | Gasoline | A | Aspir/Ing | Unint gen | |
| 127P | 18 mo | Gasoline | A | Aspir/Ing | Unint gen | |
| 128 | 62 yr | Grease (farm equipment) permethrin | A | Aspir/Ing | Unint gen | |
| 129 | 69 yr | Mineral spirits | A | Aspir/Ing | Unint gen | |
| 130 | 40 yr | Tar/asphalt | A | Dermal | Occ | |
| 131P | 14 yr | Trichloroethane | A | Inhalation | Int abuse | |
| 132P | 26 yr | Trichloroethane | A | Inhalation | Occ | |
| 133P | 39 yr | Trichloroethylene trichloroethane | C | Inhalation | Int abuse | |
| 134 | 15 mo | Unknown hydrocarbon | A | Aspir/Ing | Unint gen | |
| 135P | 19 yr | Xylene polyisobutylene amine | A | Derm/Inhal | Occ | |
| See also cases 135 (polyisobutylene amine); and 133 (trichloroethane). | | | | | | |
| Insecticides | | | | | | |
| 136 | 74 yr | Boric acid tablets | A | Ingestion | Int suicide | |
| 137P | 44 yr | Carbaryl lorazepam | A | Ingestion | Int suicide | |
| 138 | 73 yr | Chlorpyrifos (12%) | A | Aspir/Derm/Ing | Int suicide | |
| 139 | 24 yr | Lindane lotion | A | Ingestion | Ther error | |
| 140 | 47 yr | Malathion | A | Ingestion | Int suicide | pseudocholinesterase 1.1 U/mL |
| 141 | 74 yr | Malathion | A | Ingestion | Int suicide | RBC cholinesterase depression 99% |
| 142 | 28 yr | chlordane Sodium fluoride insecticide | A | Ingestion | Int suicide | |
| See also cases 141 (chlordane); 128 (permethrin); and 68 (unspecified ant and roach killer). | | | | | | |
| Mushrooms | | | | | | |
| 143 | 34 yr | Mushroom (unidentified) activated charcoal | A | Aspir/Ing | Int misuse | |
| Paints and stripping agents | | | | | | |
| 144 | 17 yr | spray paint (toluene) | A/C | Inhalation | Int abuse | |
| 145 | 3 yr | spray paint (toluene) | C | Inhalation | Int abuse | |
| 146 | 34 yr | wood stripper (toluene, isopropanol, naphtha) | C | Ing/Inhal | Int abuse | |
| Polishes and Waxes | | | | | | |
| See also case 247 (furniture polish). | | | | | | |
| Rodenticides | | | | | | |
| 147 | 15 yr | Zinc phosphide | A | Ingestion | Int suicide | |
| See also case 55 (long-acting anticoagulant rodenticide). | | | | | | |
| Analgesics | | | | | | |
| 148 | 7 yr | Acetaminophen | A | Ingestion | Unknown | 98 µg/mL >22 h |
| 149 | 12 yr | Acetaminophen | C | Ingestion | Ther error | 290 µg/mL |
| 150 | 14 yr | Acetaminophen | A | Ingestion | Int suicide | 86 µg/mL 20 h |
| 151 | 20 yr | Acetaminophen | A | Ingestion | Int suicide | |
| 152 | 21 yr | Acetaminophen | A | Ingestion | Int suicide | 27 µg/mL 48 h |
| 153 | 24 yr | Acetaminophen | C | Ingestion | Int misuse | 191 µg/mL |
| 154 | 26 yr | Acetaminophen | A | Ingestion | Int suicide | |
| 155 | 30 yr | Acetaminophen | A | Ingestion | Int suicide | 118 µg/mL 22 h |
| 156 | 34 yr | Acetaminophen | U | Ingestion | Int unknown | 63 µg/mL |
| 157 | 36 yr | Acetaminophen | U | Ingestion | Int suicide | 44 µg/mL 36-48 h |
| 158 | 36 yr | Acetaminophen | A | Ingestion | Int suicide | 150 µg/mL 26 h |
| 159 | 38 yr | Acetaminophen | A | Ingestion | Int suicide | 101 µg/mL 21 h |
| 160 | 39 yr | Acetaminophen | A/C | Ingestion | Ther error | |
| 161 | 44 yr | Acetaminophen | C | Ingestion | Int misuse | 115 µg/mL 24 h |
| 162 | 45 yr | Acetaminophen | A | Ingestion | Int suicide | 30 µg/mL 37 h |
| 163 | 46 yr | Acetaminophen | C | Ingestion | Int misuse | 34 µg/mL |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels | |
|------------------|--------|--|------------|-----------|-------------|------------------------|---------|
| 164 | 47 yr | Acetaminophen | C | Ingestion | Ther error | | |
| 165 | 50 yr | Acetaminophen | A | Ingestion | Int suicide | | |
| 166 | 55 yr | Acetaminophen | A | Ingestion | Int suicide | 166 µg/mL | |
| 167 | 57 yr | Acetaminophen | A | Ingestion | Int unknown | | |
| 168 | 68 yr | Acetaminophen | C | Ingestion | Ther error | 170 µg/mL | |
| 169 | 70 yr | Acetaminophen | U | Ingestion | Int unknown | | |
| 170 | 74 yr | Acetaminophen | U | Ingestion | Int misuse | | |
| 171 | 74 yr | Acetaminophen | A | Ingestion | Int unknown | 236 µg/mL | 17 h |
| 172 | 80 yr | Acetaminophen | C | Ingestion | Unknown | | |
| 173 | 80 yr | Acetaminophen | C | Ingestion | Int misuse | 129 µg/mL | |
| 174 | >19 yr | Acetaminophen | A | Ingestion | Int unknown | 99 µg/mL | |
| 175 | 32 yr | Acetaminophen | A | Ingestion | Int suicide | 74 µg/mL | 2 d |
| | | acetaminophen/salicylamide/ phenyltoloxamine ketorolac | | | | | |
| 176 | 22 yr | Acetaminophen alprazolam fluoxetine | A | Ingestion | Int suicide | 74 µg/mL | |
| 177 | 80 yr | Acetaminophen aspirin | C | Ingestion | Ther error | 6 µg/mL 19 mg/dL | |
| 178 | 35 yr | Acetaminophen carbamazepine phenytoin | A | Ingestion | Int suicide | 18 µg/mL | |
| 179 | 27 yr | Acetaminophen cocaine ethanol | A/C | Ingestion | Int misuse | 32 µg/mL | |
| 180 | 21 yr | Acetaminophen ethanol | A | Ingestion | Int suicide | 127 µg/mL | 4 h |
| 181 | 31 yr | Acetaminophen ethanol | C | Ingestion | Int unknown | 12 µg/mL | |
| 182 | 32 yr | Acetaminophen ethanol | A | Ingestion | Int suicide | 89 µg/mL | 30 h |
| 183 | 32 yr | Acetaminophen ethanol | C | Ingestion | Int misuse | 16 µg/mL | |
| 184 | 33 yr | Acetaminophen ethanol | C | Ingestion | Int suicide | | |
| 185 | 33 yr | Acetaminophen ethanol | U | Ingestion | Unknown | 48 µg/mL 150 mg/dL | |
| 186 | 43 yr | Acetaminophen ethanol | C | Ingestion | Int misuse | 37 µg/mL | |
| 187 | 54 yr | Acetaminophen ethanol | C | Ingestion | Ther error | 54 µg/mL | |
| 188 | 54 yr | Acetaminophen ethanol | C | Ingestion | Int misuse | 14 µg/mL | >36 h |
| 189 | 56 yr | Acetaminophen ethanol | C | Ingestion | Unknown | 80 µg/mL | |
| 190 | 67 yr | Acetaminophen ethanol | A/C | Ingestion | Ther error | 55 µg/mL | |
| 191 | 43 yr | Acetaminophen ethanol ibuprofen | C | Ingestion | Int misuse | | |
| 192 | 63 yr | Acetaminophen ethylene glycol | U | Ingestion | Unknown | 67 µg/mL 9 mg/dL | |
| 193 | 25 yr | Acetaminophen ibuprofen | A | Ingestion | Int suicide | 18 µg/mL | 38-40 h |
| 194 ^P | 62 yr | Acetaminophen prednisone acetaminophen/hydrocodone | U | Ingestion | Unknown | 762 µg/mL | |
| 195 | 60 yr | Acetaminophen salicylate | C | Ingestion | Int misuse | 149 µg/mL 84 mg/dL | |
| 196 | 60 yr | Acetaminophen/codeine acetaminophen/propoxyphene | A | Ingestion | Int suicide | 382 µg/mL | |
| 197 | 22 yr | Acetaminophen/diphenhydramine | A | Ingestion | Int suicide | 102 µg/mL [†] | 25 h |
| 198 ^P | 24 yr | Acetaminophen/diphenhydramine | A | Ingestion | Int suicide | 369 µg/mL [†] | 3 h |
| 199 | 26 yr | Acetaminophen/diphenhydramine | U | Ingestion | Unknown | | |
| 200 ^P | 35 yr | Acetaminophen/diphenhydramine | A | Ingestion | Int suicide | | |
| 201 | 39 yr | Acetaminophen/hydrocodone | U | Ingestion | Int unknown | 43 µg/mL [†] | |
| 202 | 43 yr | Acetaminophen/hydrocodone diphenoxylate/atropine nail polish remover | A/C | Ingestion | Int suicide | 60 µg/mL [†] | |
| 203 | 27 yr | Acetaminophen/hydrocodone mouthwash meperidine | C | Ingestion | Int misuse | 43 µg/mL | |
| 204 | 48 yr | Acetaminophen/oxycodone acetaminophen/codeine | A/C | Ingestion | Int unknown | | |
| 205 | 73 yr | Acetaminophen/oxycodone | C | Ingestion | Int misuse | 41 µg/mL [†] | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|------------------|--------|--|------------|------------|-------------|--|
| 206 | 36 yr | Acetaminophen/oxycodone carisoprodol | U | Ingestion | Int abuse | |
| 207 ^P | 30 yr | Acetaminophen/oxycodone ethanol | A | Ingestion | Int suicide | |
| 208 | 27 yr | Acetaminophen/propoxyphene | A | Ingestion | Int suicide | 72 µg/mL >24 h |
| 209 ^P | 29 yr | Acetaminophen/propoxyphene | A | Ingestion | Int unknown | |
| 210 ^P | 59 yr | Acetaminophen/propoxyphene | U | Ingestion | Int suicide | 191 µg/mL [§] propoxyphene .9 µg/mL [§] >200 µg/mL |
| 211 | 87 yr | Acetaminophen/propoxyphene | U | Ingestion | Int unknown | |
| 212 | 82 yr | Acetaminophen/propoxyphene acetaminophen/codeine lorazepam | A | Ingestion | Int suicide | |
| 213 ^P | 35 yr | Acetaminophen/propoxyphene alprazolam diazepam | A/C | Ingestion | Int misuse | |
| 214 ^P | 53 yr | Acetaminophen/propoxyphene amitriptyline diazepam | A | Ingestion | Int suicide | 69 µg/mL 6 h |
| 215 | 92 yr | Acetaminophen/propoxyphene aspirin/butalbital/caffeine methyl dopa | A/C | Ingestion | Int suicide | |
| 216 ^P | 80 yr | Acetaminophen/propoxyphene buspirone ibuprofen | A | Ingestion | Unknown | |
| 217 ^P | 31 yr | Acetaminophen/propoxyphene carisoprodol | U | Ingestion | Unint unk | |
| 218 | 45 yr | Acetaminophen/propoxyphene diazepam ethanol | U | Ingestion | Int suicide | |
| 219 | 69 yr | Acetaminophen/propoxyphene digoxin | A/C | Ingestion | Int unknown | 195 µg/mL 2.5 ng/mL |
| 220 | 39 yr | Acetaminophen/propoxyphene ethanol carisoprodol | A | Ingestion | Int suicide | |
| 221 ^P | 17 yr | Acetaminophen/propoxyphene pentazocine amitriptyline | A | Ingestion | Int suicide | 199 µg/mL 194 ng/mL nortriptyline 149 ng/mL |
| 222 | 15 yr | Aspirin | A | Ingestion | Int suicide | 107 mg/dL 5 h |
| 223 | 23 yr | Aspirin | A | Ingestion | Int suicide | 120 mg/dL |
| 224 | 29 yr | Aspirin | A | Ingestion | Int suicide | 134 mg/dL |
| 225 | 30 yr | Aspirin | C | Ingestion | Int abuse | 67 mg/dL |
| 226 | 32 yr | Aspirin | A | Ingestion | Int suicide | 98 mg/dL 6 h |
| 227 | 33 yr | Aspirin | A | Ingestion | Int suicide | 96 mg/dL 2.5 h |
| 228 | 40 yr | Aspirin | A | Ingestion | Int suicide | 60 mg/dL |
| 229 | 41 yr | Aspirin | A | Ingestion | Int suicide | 298 mg/dL [§] |
| 230 | 42 yr | Aspirin | A | Ingestion | Int suicide | 131 mg/dL |
| 231 | 46 yr | Aspirin | A | Ingestion | Unknown | 100 mg/dL |
| 232 ^P | 47 yr | Aspirin | C | Ingestion | Int misuse | 76 mg/dL [§] |
| 233 | 48 yr | Aspirin | C | Ingestion | Int misuse | 59 mg/dL |
| 234 | 49 yr | Aspirin | A | Ingestion | Int suicide | |
| 235 | 59 yr | Aspirin | A/C | Ingestion | Int suicide | 73 mg/dL |
| 236 | 59 yr | Aspirin | A | Ingestion | Int unknown | 117 mg/dL 10 h |
| 237 | 65 yr | Aspirin | C | Ingestion | Unint unk | 52 mg/dL |
| 238 | 67 yr | Aspirin | U | Ingestion | Int suicide | 78 mg/dL 6 h |
| 239 | 72 yr | Aspirin | U | Ingestion | Int unknown | 75 mg/dL >7 h |
| 240 | 73 yr | Aspirin | A/C | Ingestion | Int suicide | 107 mg/dL 46 h |
| 241 | 77 yr | Aspirin | C | Ingestion | Ther error | 79 mg/dL |
| 242 | 64 yr | Aspirin | U | Ingestion | Int unknown | 46 mg/dL |
| 243 | 56 yr | acetaminophen Aspirin captopril estrogen, conjugated | A | Ingestion | Int suicide | 155 µg/mL 50 mg/dL 1 d |
| 244 | >19 yr | Aspirin diphenhydramine phenothiazine | A | Ingestion | Int suicide | 90 mg/dL |
| 245 | 44 yr | Aspirin ethanol | A | Ingestion | Int suicide | 85 mg/dL >11 h |
| 246 | 71 yr | Aspirin ethanol | A | Ingestion | Int suicide | 57 mg/dL 3 d |
| 247 | 45 yr | Aspirin furniture polish | A | Ingestion | Int suicide | 97 mg/dL |
| 248 | 48 yr | Aspirin sodium hypochlorite household bleach | A | Ingestion | Int suicide | 90 mg/dL |
| 249 ^P | 47 yr | Butorphanol | A/C | Inhalation | Adv rxn | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|------------------|-------|---|------------|---------------|-------------|---|
| 250 ^P | 46 yr | Codeine cyclobenzaprine acetaminophen | A | Ingestion | Int suicide | 9.5 µg/mL§ 593 ng/mL§ 121 µg/mL§ |
| 251 ^P | 22 yr | Codeine heroin | U | Ing/Inh/Paren | Int abuse | 170 µg/mL |
| 252 | 31 yr | Colchicine glyburide | A | Ingestion | Int suicide | |
| 253 | 19 yr | Colchicine spironolactone heroin | A | Ingestion | Int suicide | |
| 254 ^P | 38 yr | Hydrocodone | U | Ingestion | Unknown | 1.7 µg/mL§ |
| 255 ^P | 50 yr | Ibuprofen phenytoin bumetanide | A | Ingestion | Int suicide | |
| 256 ^P | 34 yr | Meperidine | A | Ingestion | Unknown | 4.9 µg/mL§ normeperidine 0.5 µg/mL§ |
| 257 ^P | 41 yr | quinine Methadone amitriptyline | C | Ingestion | Int unknown | 28 µg/dL 170 ng/mL nortriptyline 370 ng/mL 140 ng/mL |
| 258 ^P | 41 yr | doxepine Morphine | A | Ingestion | Int suicide | 11 µg/mL |
| 259 | 16 yr | Morphine codeine butabarbital | A | Ingestion | Int suicide | 33 µg/L§ 2.6 µg/mL§ 19 µg/mL§ |
| 260 ^P | 30 yr | Morphine phenobarbital | A | Ingestion | Int unknown | 710 µg/mL 2 µg/mL |
| 261 ^P | 37 yr | Opiates | A | Parenteral | Int abuse | >24 h |
| 262 | 39 yr | Opiates | U | Unknown | Unknown | >24 h |
| 263 ^P | 55 yr | Opiates | A | Ingestion | Int suicide | |
| 264 | 41 yr | Opiates | A | Ingestion | Int abuse | |
| 265 ^P | 32 yr | benzodiazepine Opiates cocaine | U | Unknown | Int abuse | |
| 266 ^P | 40 yr | benzodiazepines Opiates cocaine | A/C | Parenteral | Int abuse | |
| 267 | 9 yr | Phenylbutazone | A | Ingestion | Int unknown | 670 µg/mL oxyphenbutazone 27 µg/ml |
| 268 | 18 yr | Piroxicam | U | Ingestion | Unknown | |
| 269 ^P | 9 yr | Propoxyphene | A | Ingestion | Int suicide | |
| 270 ^P | 48 yr | Propoxyphene | A | Ingestion | Int suicide | |
| 271 ^P | 37 yr | Propoxyphene | A | Ingestion | Int suicide | 3.96 µg/mL§ norpropoxyphene 14.57 µg/mL§ 0.2 µg/mL§ 317 ng/mL§ |
| 272 ^P | 49 yr | diazepam acetaminophen Propoxyphene | A | Ingestion | Int suicide | 72 µg/mL§ 9.4 µg/mL§ norpropoxyphene 35.0 µg/mL§ 0.3 µg/mL§ |
| 273 ^P | 17 yr | hydroxyzine Propoxyphene temazepam | A | Ingestion | Unknown | |
| 274 ^P | 20 yr | Propoxyphene thiothixene propranolol | A | Ingestion | Int suicide | |
| 275 | 76 yr | Salicylate | U | Ingestion | Unknown | 81 mg/dL |
| 276 | 43 yr | Salicylate codeine diphenhydramine | A | Ingestion | Int suicide | 119 mg/dL |

See also cases 6, 7, 8, 23, 242, 250, 271, 283, 306, 458, 491, 492, 506, 625 (acetaminophen); 204, 212 (acetaminophen/codeine); 73, 493 (acetaminophen/diphenhydramine); 73, 194, 444, 523 (acetaminophen/hydrocodone); 196, 328, 468, 529 (acetaminophen/propoxyphene); 8, 177, 380 (aspirin); 215 (aspirin/ibutalbitol/caffeine); 259, 276, 309, 370, 464, 541 (codeine); 409 (colchicine); 58 (flunixin); 374 (hydrocodone); 191, 193, 216, 315 (ibuprofen); 455, 496 (indomethacin); 175 (ketorolac); 203 (meperidine); 598 (meperidine/promethazine); 599, 600 (methadone); 439, 546 (morphine); 386, 562, 601, 606 (opiates); 221 (pentazocine); 321, 528, 544, 603, 604 (propoxyphene); and 195, 309, 322, 522 (salicylates).

Anesthetics

| | | | | | | |
|------------------|-------|---------------|---|------------|------------|--|
| 277 | 65 yr | Lidocaine | A | Parenteral | Ther error | |
| 278 | 16 yr | Nitrous oxide | A | Inhalation | Int abuse | |
| 279 ^P | 20 yr | Nitrous oxide | A | Inhalation | Int abuse | |
| 280 ^P | 31 yr | Nitrous oxide | A | Inhalation | Int abuse | |

Anticholinergic drugs

| | | | | | | |
|-----|-------|--------------------------|---|-----------|-------------|--|
| 281 | 38 yr | Amantadine clonazepam | U | Ingestion | Int suicide | |
|-----|-------|--------------------------|---|-----------|-------------|--|

See also cases 559 (amantadine); and 285, 316 (benztropine).

Anticoagulants

See also case 606 (warfarin).

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|--|--------|---|------------|-----------|-------------|--|
| Anticonvulsants | | | | | | |
| 282 ^P | 15 yr | Carbamazepine | A/C | Ingestion | Int unknown | 58 µg/mL |
| 283 | 24 yr | Carbamazepine acetaminophen metoclopramide | A | Ingestion | Int suicide | 50 µg/mL 45 µg/mL |
| 284 | 39 yr | Carbamazepine alprazolam | A | Ingestion | Int suicide | 54 µg/mL |
| 285 ^P | 57 yr | Carbamazepine benztropine clonazepam | A/C | Ingestion | Int suicide | |
| 286 | 20s yr | Phenytoin divalproex sodium cocaine | A/C | Ingestion | Int suicide | 17 µg/mL |
| 287 | 55 yr | Valproic acid | A | Ingestion | Int suicide | |
| <i>See also cases 178, 388, 552 (carbamazepine); 286 (divalproex sodium); 178, 255, 315, 498, 523, 552 (phenytoin); and 374 (valproic acid).</i> | | | | | | |
| Antidepressants | | | | | | |
| 288 | 12 yr | Amitriptyline | C | Ingestion | Ther error | |
| 289 | 16 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 290 | 17 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 291 ^P | 26 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 292 ^P | 28 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 293 | 30 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 294 | 30 yr | Amitriptyline | A | Ingestion | Int suicide | 453 ng/mL nortriptyline 114 ng/mL |
| 295 | 32 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 296 ^P | 39 yr | Amitriptyline | A/C | Ingestion | Int suicide | |
| 297 | 41 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 298 | 45 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 299 ^P | 45 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 300 ^P | 48 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 301 ^P | 49 yr | Amitriptyline | A | Ingestion | Unknown | |
| 302 | 70 yr | Amitriptyline | A | Ingestion | Unknown | |
| 303 | >19 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 304 ^P | >19 yr | Amitriptyline | U | Ingestion | Int suicide | |
| 305 | >19 yr | Amitriptyline | A | Ingestion | Int suicide | |
| 306 ^P | 23 yr | Amitriptyline | A | Ingestion | Int suicide | 3,200 ng/mL nortriptyline 1,000 ng/mL 140 µg/mL 2,400 ng/mL nortriptyline 200 ng/mL |
| 307 | 67 yr | acetaminophen Amitriptyline amitriptyline/perphenazine lorazepam | A | Ingestion | Int suicide | |
| 308 | 36 yr | Amitriptyline chlordiazepoxide alprazolam | A/C | Ingestion | Int suicide | |
| 309 ^P | 29 yr | Amitriptyline | A | Ingestion | Int suicide | 8,800 ng/mL§ nortriptyline 1,900 ng/mL§ 5.1 µg/mL§ 8 mg/dL§ 1,100 ng/mL§ nortriptyline 750 ng/mL§ .78 µg/mL§ |
| 310 ^P | 42 yr | codeine salicylate Amitriptyline | A | Ingestion | Int suicide | |
| 311 | 19 yr | diphenhydramine thioridazine Amitriptyline | A | Ingestion | Int suicide | 10,700 ng/mL§ nortriptyline 1,100 ng/mL§ 140 mg/dL |
| 312 ^P | 35 yr | ethanol Amitriptyline | A | Ingestion | Int suicide | 202 mg/dL |
| 313 | 37 yr | ethanol Amitriptyline | U | Ingestion | Int suicide | 4,709 ng/mL nortriptyline 180 ng/mL 222 mg/dL |
| 314 | >19 yr | ethanol Amitriptyline | A | Ingestion | Int suicide | |
| 315 | 45 yr | ethanol Amitriptyline ibuprofen phenytoin | U | Ingestion | Int unknown | 15.6 µg/mL |
| 316 | 28 yr | Amitriptyline loxapine benztropine | A/C | Ingestion | Int suicide | |
| 317 | 14 yr | Amitriptyline methamphetamine metoclopramide | A | Ingestion | Int suicide | 673 ng/mL |
| 318 ^P | 61 yr | Amitriptyline | A | Ingestion | Int suicide | 1,020 ng/mL nortriptyline 614 ng/mL |
| 319 ^P | 55 yr | perphenazine Amitriptyline perphenazine albuterol | U | Ingestion | Int suicide | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|------------------|--------|--|------------|-----------|-------------|----------------------------|
| 320 ^P | 45 yr | Amitriptyline perphenazine lithium | A | Ingestion | Int suicide | |
| 321 | 30 yr | Amitriptyline propoxyphene lithium | A/C | Ingestion | Int suicide | |
| 322 | 30 yr | Amitriptyline salicylate phenobarbital | U | Ingestion | Int suicide | 3.3 mg/dL 1.2 µg/mL |
| 323 ^P | 23 yr | Amitriptyline terfenadine ethanol | A | Ingestion | Int suicide | |
| 324 | 23 yr | Amitriptyline/perphenazine | A/C | Ingestion | Int suicide | |
| 325 | 46 yr | Amitriptyline/perphenazine | A | Ingestion | Int suicide | |
| 326 | 48 yr | Amitriptyline/perphenazine | A | Ingestion | Int suicide | |
| 327 | 70 yr | Amitriptyline/perphenazine | A | Ingestion | Int suicide | |
| 328 ^P | 37 yr | Amitriptyline/perphenazine acetaminophen/propoxyphene | A | Ingestion | Int suicide | |
| 329 | 18 yr | Amitriptyline/perphenazine diphenhydramine | A | Ingestion | Int suicide | |
| 330 | 72 yr | Amitriptyline/perphenazine fluoxetine | A | Ingestion | Int suicide | 1,239 ng/mL |
| 331 | 17 mo | Amoxapine | A | Ingestion | Unint gen | |
| 332 ^P | 68 yr | Amoxapine clomipramine | A | Ingestion | Int unknown | |
| 333 | 41 yr | Amoxapine clonazepam | A/C | Ingestion | Int suicide | 3,004 ng/mL |
| 334 | 65 yr | Amoxapine fluphenazine enalapril | A/C | Ingestion | Int suicide | |
| 335 ^P | 34 yr | Amoxapine thiothixene buspirone | A/C | Ingestion | Int suicide | |
| 336 | 47 yr | Amoxapine trazodone chlorazepate | A/C | Ingestion | Int suicide | |
| 337 ^P | 20 mo | Desipramine | A | Ingestion | Unint gen | |
| 338 ^P | 2 yr | Desipramine | A | Ingestion | Unint gen | 8,000 ng/mL§ |
| 339 | 13 yr | Desipramine | A | Ingestion | Int suicide | |
| 340 | 13 yr | Desipramine | A/C | Ingestion | Int suicide | 1,192 ng/mL |
| 341 | 13 yr | Desipramine | A | Ingestion | Int suicide | |
| 342 | 14 yr | Desipramine | A | Ingestion | Int suicide | 3,180 ng/mL§ |
| 343 ^P | 15 yr | Desipramine | A/C | Ingestion | Int suicide | 1,147 ng/mL |
| 344 | 15 yr | Desipramine | A | Ingestion | Int suicide | |
| 345 ^P | 15 yr | Desipramine | A | Ingestion | Int suicide | |
| 346 ^P | 16 yr | Desipramine | A | Ingestion | Int suicide | |
| 347 | 18 yr | Desipramine | A | Ingestion | Int unknown | 672 ng/mL |
| 348 | 18 yr | Desipramine | A | Ingestion | Int suicide | 2,150 ng/mL |
| 349 | 26 yr | Desipramine | A | Ingestion | Int suicide | |
| 350 ^P | 29 yr | Desipramine | A | Ingestion | Int suicide | |
| 351 | 30 yr | Desipramine | A/C | Ingestion | Int suicide | |
| 352 | 48 yr | Desipramine | A/C | Ingestion | Int suicide | |
| 353 | 60 yr | Desipramine | A | Ingestion | Int suicide | |
| 354 | 19 yr | Desipramine amitriptyline fluoxetine | A | Ingestion | Int suicide | 2,968 ng/mL 1,970 ng/mL |
| 355 | 61 yr | Desipramine ethanol | A | Ingestion | Int suicide | |
| 356 | 32 yr | Desipramine fluoxetine | A | Ingestion | Int suicide | 2,340 ng/mL 71 ng/mL |
| 357 | 38 yr | Desipramine lorazepam | A | Ingestion | Int suicide | |
| 358 | 35 yr | Desipramine mint extract (90% ethanol) | A | Ingestion | Int suicide | |
| 359 | 37 yr | Desipramine nifedipine | A | Ingestion | Int suicide | 2,098 ng/mL |
| 360 | 57 yr | Desipramine nortriptyline | A | Ingestion | Int suicide | |
| 361 | >19 yr | Desipramine propranolol haloperidol | U | Ingestion | Int suicide | |
| 362 | 49 yr | Desipramine trazodone chlorpromazine | A/C | Ingestion | Int suicide | |
| 363 ^P | 17 yr | Doxepin | A | Ingestion | Int suicide | |
| 364 | 18 yr | Doxepin | A | Ingestion | Int suicide | |
| 365 ^P | 34 yr | Doxepin | A | Ingestion | Int suicide | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|------|--------|---|------------|-----------|-------------|--|
| 366P | 36 yr | Doxepin | A | Ingestion | Int suicide | >1,000 ng/mL |
| 367P | 41 yr | Doxepin | A | Ingestion | Int suicide | |
| 368P | 53 yr | Doxepin | A | Ingestion | Int suicide | 1,300 ng/mL§ nordoxepin 200 ng/mL§ |
| 369P | >19 yr | Doxepin | U | Ingestion | Int suicide | |
| 370P | 15 yr | Doxepin codeine alprazolam | A | Ingestion | Int suicide | 3,010 ng/mL§ 3.0 µg/mL§ 110 ng/mL§ |
| 371 | 47 yr | Doxepin haloperidol | A/C | Ingestion | Int suicide | |
| 372P | 28 yr | Doxepin trifluoperazine | U | Ingestion | Int suicide | |
| 373P | 37 yr | Fluoxetine nortriptyline doxylamine | U | Ingestion | Int suicide | 4,000 ng/mL 4,200 ng/mL |
| 374P | 50 yr | Fluoxetine valproic acid hydrocodone | U | Ingestion | Int suicide | 9.0 µg/mL |
| 375P | 22 yr | Imipramine | A | Ingestion | Int suicide | |
| 376P | 27 yr | Imipramine | A | Ingestion | Int suicide | 6,300 ng/mL desipramine 480 ng/mL |
| 377 | 28 yr | Imipramine | A | Ingestion | Int suicide | |
| 378P | 41 yr | Imipramine | A | Ingestion | Int suicide | |
| 379 | 50 yr | Imipramine | A | Ingestion | Int suicide | |
| 380 | 41 yr | Imipramine aspirin trifluoperazine | A | Ingestion | Int suicide | 1,000 ng/mL 55 mg/dL |
| 381 | 40 yr | Imipramine carisoprodol | A | Ingestion | Int suicide | |
| 382 | 19 yr | Imipramine clonazepam | A/C | Ingestion | Int suicide | 3,695 ng/mL |
| 383 | 32 yr | Imipramine cocaine | A | Ingestion | Int suicide | |
| 384 | 47 yr | Imipramine cocaine | A | Ingestion | Int suicide | |
| 385P | 38 yr | Imipramine ethanol | A | Ingestion | Int suicide | |
| 386 | 32 yr | Imipramine opiate | A | Ingestion | Int unknown | |
| 387 | 30 yr | Lithium amitriptyline nortriptyline | A | Ingestion | Int suicide | 6.5 mEq/L 630 ng/mL 450 ng/mL |
| 388 | 60 yr | Lithium imipramine carbamazepine | A/C | Ingestion | Int suicide | 4.86 mEq/L 100 ng/mL 13.3 µg/mL§ |
| 389 | 32 yr | Loxapine clomipramine | A | Ingestion | Int suicide | |
| 390 | 37 yr | Nortriptyline | A/C | Ingestion | Int suicide | |
| 391 | 37 yr | Nortriptyline | U | Unknown | Unknown | |
| 392 | 41 yr | Nortriptyline | U | Unknown | Int suicide | |
| 393P | 65 yr | Nortriptyline | A | Ingestion | Int suicide | 5,000 ng/mL |
| 394 | 63 yr | Nortriptyline chlorpromazine | A | Ingestion | Int suicide | 954 ng/mL |
| 395P | 44 yr | Nortriptyline cocaine ethanol | A | Ingestion | Int unknown | 1,046 ng/mL§ .55 µg/mL§ |
| 396 | 44 yr | Nortriptyline diltiazem (long acting) lorazepam | A/C | Ingestion | Int suicide | |
| 397 | 21 yr | Nortriptyline fluphenazine bupropion | A | Ingestion | Int suicide | 962 ng/mL |
| 398 | 18 yr | Nortriptyline omeprazole cimetidine | A | Ingestion | Unknown | |
| 399 | 16 yr | Nortriptyline perphenazine | A | Ingestion | Int suicide | |
| 400P | 31 yr | Nortriptyline temazepam ranitidine | A | Ingestion | Int suicide | |
| 401 | 29 yr | Nortriptyline trazodone clonazepam | A/C | Ingestion | Int suicide | |
| 402 | 43 yr | Sertraline thioridazine triazolam | A | Ingestion | Int suicide | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|--|--------|--|------------|------------|---------------|-------------------------------------|
| 403P | 44 yr | Tranlycypromine | A/C | Ingestion | Int suicide | .44 mg/L§ |
| 404P | 14 yr | Trazodone | A | Ingestion | Int suicide | |
| 405P | 26 yr | Tricyclic antidepressant | A | Ingestion | Int suicide | |
| 406 | 50 yr | Tricyclic antidepressant | U | Ingestion | Int unknown | >600 ng/mL |
| 407P | 47 yr | Tricyclic antidepressant amphetamine | A | Ingestion | Int suicide | |
| 408 | 39 yr | Tricyclic antidepressant ethanol | U | Ingestion | Int suicide | 1,842 ng/mL 132 mg/dL |
| See also cases 214, 221, 257, 354, 387, 455, 477, 503, 589 (amitriptyline); 307 (amitriptyline/perphenazine); 397, 449 (bupropion); 332, 389 (clomipramine); 257, 494 (doxepin); 176, 330, 354, 356, 469 (fluoxetine); 388 (imipramine); 320, 321, 464 (lithium); 316 (loxapine); 360, 373, 387, 525, 541 (nortriptyline); 547, 593 (phenelzine); 556 (tranlycypromine); 336, 362, 401, 525, 538 (trazodone); 522, 555 (sertraline); 528, 601, 619 (unspecified cyclic antidepressants). | | | | | | |
| Antihistamines | | | | | | |
| 409 | 21 yr | Astemizole colchicine cocaine | A | Ingestion | Int suicide | |
| 410P | 40 yr | Diphenhydramine (OTC) sleep aid | A | Ingestion | Int suicide | |
| 411P | 44 yr | Diphenhydramine (OTC) | A | Ingestion | Int suicide | 4.99 µg/mL |
| 412P | 46 yr | Diphenhydramine | A | Ingestion | Int suicide | |
| 413 | 30 yr | Diphenhydramine benzodiazepines | A | Ingestion | Int suicide | |
| See also cases 398, 535 (cimetidine); 400, 496 (ranitidine); 51, 244, 276, 310, 329, 500, 550, 553 (diphenhydramine); 373 (doxylamine); 272, 458, 494 (hydroxyzine); and 323 (terfenadine). | | | | | | |
| Antimicrobials | | | | | | |
| 414P | 28 yr | Isoniazid | A/C | Ingestion | Int suicide | 14 µg/mL |
| 415P | 35 yr | Isoniazid | A | Ingestion | Int suicide | 56 µg/mL |
| See also cases 555 (azidothymidine); 471 (cephalexin); 438 (ciprofloxin); and 441 (trimethoprim/sulfamethoxazole). | | | | | | |
| Antineoplastics | | | | | | |
| 416 | 58 yr | Paclitaxel | A | Parenteral | Adv rxn | |
| Asthma therapies | | | | | | |
| 417 | 15 yr | Theophylline (long-acting) | A/C | Ingestion | Int suicide | 118 µg/mL |
| 418P | 18 yr | Theophylline (long-acting) | A | Ingestion | Int suicide | 105 µg/mL |
| 419P | 20 yr | Theophylline | U | Ingestion | Unknown | |
| 420 | 21 yr | Theophylline | A | Ingestion | Int unknown | 70 µg/mL |
| 421 | 52 yr | Theophylline (long-acting) | C | Ingestion | Int unknown | 98 µg/mL |
| 422 | 58 yr | Theophylline | A/C | Parenteral | Ther error | 39 µg/mL |
| 423P | 60 yr | Theophylline | C | Ingestion | Ther error | 52 µg/mL |
| 424 | 60 yr | Theophylline | A/C | Ingestion | Unint unknown | 60 µg/dL |
| 425 | 64 yr | Theophylline | A/C | Ingestion | Ther error | 77 µg/mL |
| 426 | 67 yr | Theophylline | A/C | Ingestion | Unint unknown | 40 µg/mL |
| 427 | 70s yr | Theophylline | C | Ingestion | Unknown | 55 µg/mL |
| 428 | 71 yr | Theophylline (long-acting) | C | Ingestion | Ther error | 33 µg/mL |
| 429 | 74 yr | Theophylline | C | Ingestion | Ther error | 30 µg/mL |
| 430 | 75 yr | Theophylline | C | Ingestion | Ther error | 47 µg/mL |
| 431 | 79 yr | Theophylline | C | Ingestion | Unint unknown | 36 µg/mL |
| 432 | 80 yr | Theophylline | C | Ingestion | Ther error | 35 µg/mL |
| 433 | 82 yr | Theophylline | C | Ingestion | Unknown | 66 µg/mL |
| 434P | 83 yr | Theophylline (long-acting) | C | Ingestion | Unknown | 58 µg/mL |
| 435 | 84 yr | Theophylline | C | Ingestion | Unknown | 33 µg/mL |
| 436 | 90 yr | Theophylline (long-acting) | C | Ingestion | Adv rxn | 55 µg/mL |
| 437 | 91 yr | Theophylline | C | Ingestion | Unknown | 49 µg/mL |
| 438 | 73 yr | Theophylline ciprofloxin | C | Ingestion | Ther error | 52 µg/mL |
| 439 | 37 yr | Theophylline clonazepam morphine | A/C | Ingestion | Int suicide | 50 µg/mL 99 ng/mL§ .56 µg/mL§ |
| 440 | 43 yr | Theophylline quinine thyroxine | A/C | Ingestion | Int suicide | 123 µg/mL |
| 441 | 48 yr | Theophylline timethoprim/sulfamethoxazole | A | Ingestion | Int suicide | |
| See also cases 319 (albuterol); and 58, 451 (theophylline). | | | | | | |
| Cardiovascular drugs | | | | | | |
| 442P | 26 yr | Atenolol | A | Ingestion | Int suicide | |
| 443 | 57 yr | Atenolol temazepam ethanol | A/C | Ingestion | Int suicide | |
| 444P | 50 yr | Clonidine nifedipine acetaminophen/hydrocodone | A/C | Ingestion | Int suicide | |
| 445 | 74 yr | Digoxin | A/C | Ingestion | Int suicide | 11.8 ng/mL |
| 446 | 90 yr | Digoxin | C | Ingestion | Adv rxn | 6.1 ng/mL |
| 447 | 92 yr | Digoxin | A | Ingestion | Int suicide | 9.8 ng/mL |
| 448 | 66 yr | Digoxin alprazolam | A | Ingestion | Int suicide | >4.0 ng/mL |

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TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|------------------|--------|--|------------|------------|-------------|--|
| 449 | 84 yr | Digoxin | A | Ingestion | Int suicide | 11.4 ng/mL |
| 450 | 80 yr | bupropion Digoxin | A/C | Ingestion | Int suicide | |
| 451 | 67 yr | furosemide Digoxin | C | Ing/Paren | Adv rxn | 5 ng/mL 34 µg/mL |
| 452 | 21 yr | theophylline Diltiazem | A | Ingestion | Int suicide | |
| 453 | 39 yr | Diltiazem | A | Ingestion | Int suicide | 6.4 µg/mL |
| 454 | 41 yr | Diltiazem (sustained release) | A | Ingestion | Int suicide | |
| 455 | 73 yr | Diltiazem | A/C | Ingestion | Int suicide | |
| 456 | 38 yr | amitriptyline indomethacin Diltiazem | A | Ing/Inhal | Int suicide | 6.7 µg/mL§ |
| 457 | 76 yr | cocaine (crack) Diltiazem | A/C | Ingestion | Int suicide | |
| 458 | 34 yr | digoxin nifedipine Diltiazem | A/C | Ingestion | Int suicide | |
| 459 | 37 yr | hydroxyzine acetaminophen Diltiazem | A | Ingestion | Int suicide | 12 µg/mL |
| 460 ^P | 24 yr | metoprolol ethanol Diltiazem (sustained release) | A | Ingestion | Int suicide | 38 µg/mL |
| 461 | 38 yr | unknown diuretic Disopyramide | A | Ingestion | Unknown | |
| 462 | 90s yr | Disopyramide | C | Ingestion | Ther error | |
| 463 ^P | 9 mo | Flecainide | A/C | Ingestion | Unint gen | 21.3 µg/mL§ |
| 464 | 41 yr | Flecainide | A | Ingestion | Int suicide | |
| 465 | 42 yr | lithium codeine Metoprolol | A | Ingestion | Int suicide | 4.0 mEq/L 12-16 h >10 mg/dL |
| 466 | 51 yr | Metoprolol | A | Ingestion | Int suicide | |
| 467 | 3 yr | verapamil Nifedipine (sustained release) | A | Ingestion | Ther error | |
| 468 | 40 yr | Nifedipine | A/C | Ingestion | Int suicide | |
| 469 | 82 yr | acetaminophen/propoxyphene Nifedipine | A/C | Ingestion | Int suicide | 1.5 µg/mL 1 d |
| 470 ^P | 58 yr | atenolol fluoxetine Nifedipine (sustained release) | A/C | Ingestion | Int suicide | 1,300 ng/mL§ |
| 471 | 14 yr | nitroglycerin Pindolol | A | Ingestion | Int suicide | |
| 472 | 80 yr | cephalexin Procainamide | C | Parenteral | Ther error | 21.6 µg/mL |
| 473 | 53 yr | Procainamide | C | Parenteral | Ther error | 17.1 µg/mL 19.0 µg/mL N-acetylprocainamide 59.6 µg/mL 3.3 ng/mL |
| 474 ^P | 37 yr | digoxin Propranolol | A | Ingestion | Int suicide | |
| 475 ^P | 60 yr | Propranolol | A | Ingestion | Int suicide | |
| 476 ^P | >19 yr | Propranolol | A | Ingestion | Int suicide | |
| 477 | 40 yr | Propranolol | U | Ingestion | Int suicide | |
| 478 ^P | 25 yr | amitriptyline Propranolol | A | Ingestion | Int suicide | |
| 479 | 36 yr | ethanol Propranolol | A | Ingestion | Int suicide | 258 mg/dL |
| 480 | 72 yr | verapamil lisinopril Quinidine | A | Parenteral | Ther error | |
| 481 ^P | 75 yr | Quinidine | C | Ingestion | Unknown | |
| 482 | 39 yr | Quinidine | A | Ingestion | Int suicide | 16.3 µg/mL§ |
| 483 | 33 yr | verapamil | A/C | Ingestion | Int suicide | 1.3 µg/mL§ |
| 484 | 35 yr | Verapamil (sustained release) | A/C | Ingestion | Int suicide | |
| 485 ^P | 35 yr | Verapamil | A | Ingestion | Int suicide | |
| 486 | 49 yr | Verapamil (sustained release) | A/C | Ingestion | Ther error | |
| 487 | 49 yr | Verapamil (sustained release) | A | Ingestion | Int suicide | |
| 488 ^P | 60 yr | Verapamil | A/C | Ingestion | Unknown | |
| 489 | 62 yr | Verapamil (sustained release) | A/C | Ingestion | Int suicide | |
| 490 | 75 yr | Verapamil (sustained release) | A | Ingestion | Int suicide | |
| 491 | 20 yr | Verapamil | A | Ingestion | Int suicide | |
| 492 ^P | 37 yr | acetaminophen Verapamil (sustained release) | A/C | Ingestion | Int suicide | |

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TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|--|-------|---|------------|------------|-------------|---|
| 493 | 40 yr | Verapamil buspirone acetaminophen/diphenhydramine | U | Ingestion | Int suicide | |
| 494 | 30 yr | Verapamil doxepin hydroxyzine | A | Ingestion | Int suicide | |
| 495 | 76 yr | Verapamil (sustained release) ethanol | A/C | Ingestion | Unknown | |
| 496 | 33 yr | Verapamil indomethacin ranitidine | A | Ingestion | Int suicide | |
| 497 ^P | 20 yr | Verapamil (sustained release) nadolol | A | Ingestion | Int suicide | |
| 498 | 64 yr | Verapamil phenytoin | A/C | Ingestion | Int suicide | 17 µg/mL |
| See also cases 469, 535 (atenolol); 243 (captopril); 219, 457, 473 (digoxin); 396 (diltiazem); 334 (enalapril); 479 (lisinopril); 215 (methyldopa); 459 (metoprolol); 497 (nadolol); 12, 359, 444, 457 (nifedipine); 470 (nitroglycerin); 12, 274, 361 (propranolol); and 466, 479, 482 (verapamil). | | | | | | |
| Cough and cold preparations | | | | | | |
| 499 | 39 yr | Acetaminophen/ethanol/doxylamine/ pseudoephedrine/dextromethorphan | C | Ingestion | Int abuse | |
| 500 ^P | 53 yr | Acetaminophen/ethanol/doxylamine/ pseudoephedrine/dextromethorphan | A | Ingestion | Int suicide | doxylamine 1.7 µg/mL§ dextromethorphan 6.4 µg/mL§ 484 [¶] µg/mL§ 0.7 µg/mL§ 2.5 µg/mL§ |
| 501 ^P | 12 mo | diphenhydramine thioridazine | A | Ingestion | Unint gen | |
| 502 ^P | 8 yr | Benzonatate Cough/cold medications containing: dextromethorphan, phenylpropanolamine, pseudoephedrine, doxylamine, acetaminophen | A | Ingestion | Unknown | |
| 503 ^{1P} | 43 yr | Hydrocodone/chlorpheniramine/ phenylephrine/acetaminophen/caffeine amitriptyline ethanol | A | Ingestion | Int suicide | |
| See also case 175 (acetaminophen/salicylamide/phenyltoloxamine). | | | | | | |
| Diagnostic agents | | | | | | |
| 504 | 49 yr | Contrast media (diatrizoate sodium, diatrizoate meglumine) | A | Aspir/Ing | Adv rxn | |
| Diuretics | | | | | | |
| See also cases 255 (bumetanide); 450 (furosemide); 253 (spironolactone); and 460 (unknown diuretic). | | | | | | |
| Electrolytes and minerals | | | | | | |
| 505 | 20 mo | Ferrous sulfate | A | Ingestion | Unint gen | 1,080 µg/dL |
| 506 | 15 yr | Ferrous sulfate acetaminophen | A | Ingestion | Int suicide | 1,924 µg/dL 67 µg/mL |
| 507 | 11 mo | Iron (prenatal supplement) | A | Ingestion | Unint gen | 30,500 µg/dL |
| 508 | 14 yr | Iron | A | Ingestion | Int suicide | 476 µg/dL |
| 509 | 68 yr | Sodium chloride solution | A | Parenteral | Ther error | |
| Gastrointestinal preparations | | | | | | |
| 510 | 30 yr | diphenoxylate/atropine | A | Ingestion | Int suicide | |
| 511 | 23 yr | polyethylene glycol electrolyte lavage solution | A | Aspir/Ing | Adv rxn | |
| 512 | 79 yr | polyethylene glycol electrolyte lavage solution | A | Aspir/Ing | Adv rxn | |
| 513 | 5 mo | sucralfate | A | Parenteral | Ther error | |
| See also cases 202 (diphenoxylate/atropine); 283, 317 (metoclopramide); and 398 (omeprazole). | | | | | | |
| Hormones and Hormone Antagonists | | | | | | |
| 514 | 37 yr | Insulin | A | Parenteral | Int suicide | |
| 515 ^P | 33 yr | Insulin ethanol | A | Ing/Paren | Int suicide | 82 µU/mL |
| 516 | 27 yr | Prednisone corticosteroids | C | Ingestion | Int misuse | |
| See also cases 516 (corticosteroid); 243 (estrogen, conjugated); 252 (glyburide); 551 (insulin); 194 (prednisone); and 440 (thyroxine). | | | | | | |
| Miscellaneous drugs | | | | | | |
| 517 | 21 mo | Arginine | A | Parenteral | Unknown | |
| See also cases 533 (hydroxyurea); and 256, 440 (quinine). | | | | | | |
| Muscle relaxants | | | | | | |
| 518 ^P | 31 yr | Baclofen | A | Ingestion | Int suicide | |
| 519 | 48 yr | Carisoprodol | U | Ingestion | Int unknown | |
| 520 ^P | 28 yr | Carisoprodol ethanol | A | Ingestion | Int suicide | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|--|--------|---|------------|-----------|-------------|---|
| 521 ^P | 43 yr | Carisoprodol | A | Ingestion | Int suicide | 44 µg/mL meprobamate 47 µg/mL |
| 522 | 47 yr | ethanol Carisoprodol salicylate | A | Ingestion | Int misuse | 19 mg/dL |
| 523 | 22 yr | Cyclobenzaprine acetaminophen/hydrocodone phenytoin | A | Ingestion | Int suicide | <10 µg/mL ^{II} <2 µg/mL |
| See also cases 537 (baclofen); 206, 217, 220, 381, 553 (carisoprodol); and 250, 531 (cyclobenzaprine). | | | | | | |
| Sedatives/hypnotics/antipsychotics | | | | | | |
| 524 | >19 yr | Alprazolam ethanol | A/C | Ingestion | Int suicide | 230 mg/dL§ 117 ng/mL |
| 525 | 72 yr | Alprazolam trazodone nortriptyline | A | Ingestion | Int suicide | 4,195 ng/mL 198 ng/mL |
| 526 | 90 yr | Barbiturates | U | Unknown | Unknown | |
| 527 ^P | 35 yr | Barbiturates ethanol | A | Ingestion | Int unknown | |
| 528 ^P | 58 yr | Benzodiazepines propoxyphene | A/C | Ingestion | Int unknown | 1,000 ng/mL |
| 529 | 46 yr | tricyclic antidepressant Butalbital/aspirin | A | Ingestion | Int suicide | 70 ng/mL aspirin 29 mg/dL butalbital 20 µg/mL |
| 530 | 89 yr | acetaminophen/propoxyphene Butalbital lorazepam | A | Ingestion | Int suicide | |
| 531 | 42 | haloperidol Chlordiazepoxide cyclobenzaprine | A | Ingestion | Int suicide | |
| 532 ^P | 5 yr | Chloral hydrate | A | Ingestion | Ther error | |
| 533 | 81 yr | Chloral hydrate hydroxyurea | A | Ingestion | Int suicide | |
| 534 ^P | 31 yr | Chlorpromazine | A | Ingestion | Int suicide | |
| 535 | 43 yr | Chlorpromazine atenolol cimetidine | A | Ingestion | Int suicide | |
| 536 ^P | 37 yr | Chlorpromazine buspirone | U | Ingestion | Int suicide | |
| 537 | 31 yr | Clonazepam baclofen | A/C | Ingestion | Int suicide | |
| 538 ^P | 19 mo | Clonazepam trazodone | A | Ingestion | Unint gen | |
| 539 | 68 yr | Droperidol | C | Ingestion | Adv rxn | |
| 540 ^P | 46 yr | Ethchlorvinyl | A | Ingestion | Int suicide | |
| 541 ^P | 62 yr | Ethchlorvinyl nortriptyline codeine | A | Ingestion | Int suicide | |
| 542 | 33 yr | Haloperidol | C | Ingestion | Adv rxn | |
| 543 | 73 yr | Haloperidol | A/C | Ingestion | Adv rxn | |
| 544 ^P | 40s yr | Lorazepam propoxyphene | A | Ingestion | Int suicide | 330 ng/mL§ 2 µg/mL§ |
| 545 ^P | 26 yr | Meprobamate | U | Ingestion | Unknown | |
| 546 | 31 yr | Meprobamate diazepam morphine | U | Ingestion | Int unknown | |
| 547 ^P | 44 yr | Meprobamate phenelzine | U | Unknown | Int suicide | |
| 548 ^P | 51 yr | Meprobamate phenobarbital | A | Ingestion | Int unknown | |
| 549 ^P | 49 yr | Pentobarbital ethanol cocaine | A | Ingestion | Int abuse | 28.7 µg/mL 19 µg/mL 184 mg/dL |
| 550 ^P | 40 yr | Perphenazine temazepam | A | Ingestion | Int suicide | |
| 551 | 61 yr | diphenhydramine Phenobarbital insulin | A/C | Ing/Paren | Int suicide | 148 µg/mL |
| 552 ^P | 39 yr | Phenobarbital phenytoin carbamazepine | A | Ingestion | Int suicide | 80 µg/mL 33 µg/mL 12 µg/mL |
| 553 | 38 yr | Prochlorperazine diphenhydramine carisoprodol | A | Ingestion | Int suicide | |
| 554 | 57 yr | Thioridazine | A | Ingestion | Adv rxn | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|--|--------|---|------------|-------------|-------------|--|
| 555 ^P | >19 yr | Thioridazine sertraline azidothymidine | U | Ingestion | Unknown | 11 µg/mL 0.9 µg/mL |
| 556 | >19 yr | Thioridazine tranylcypromine | A/C | Ingestion | Int suicide | |
| 557 | 96 yr | Temazepam | A | Ingestion | Int suicide | |
| 558 | 85 yr | Temazepam barbiturate | A | Ingestion | Int suicide | |
| 559 | 33 yr | Trifluoperazine amantadine | A/C | Ingestion | Int suicide | |
| <i>See also cases 176, 213, 284, 308, 370, 448, 588 (alprazolam); 558, 615 (barbiturate); 264, 265, 413, 591, 597, 600 (benzodiazepines); 216, 335, 493, 536 (buspirone); 259 (butabarbital); 281, 285, 333, 382, 401, 439 (clonazepam); 336 (clorazepate); 308, 616, 624 (chlordiazepoxide); 10, 362, 394 (chlorpromazine); 107, 213, 214, 218, 271, 546, 598, 604 (diazepam); 334, 397 (fluphenazine); 593 (flurazepam); 361, 371, 530 (haloperidol); 137, 212, 307, 357, 396, 530 (lorazepam); 318, 319, 320, 399 (perphenazine); 260, 322, 548 (phenobarbital); 244 (phenothiazine); 605 (secobarbital); 273, 400, 443, 550, 618 (temazepam); 310, 402, 500 (thioridazine); 274, 335 (thiothixene); 402 (triazolam); and 372, 380 (trifluoperazine).</i> | | | | | | |
| Stimulants and street drugs | | | | | | |
| 560 | 18 yr | Amphetamine | A | Unknown | Int abuse | |
| 561 ^P | 50 yr | Amphetamine | A | Ingestion | Int suicide | >1,000 ng/mL |
| 562 ^P | 22 yr | Amphetamine cocaine | A | Ingestion | Int abuse | |
| 563 ^P | 28 yr | opioids Caffeine ethanol | A | Ingestion | Int unknown | |
| 564 | 1 d | Cocaine | C | Parenteral | Int abuse | |
| 565 ^P | 21 yr | Cocaine | A | Inhalation | Int abuse | 2.1 µg/mL |
| 566 ^P | 21 yr | Cocaine | U | Unknown | Int abuse | |
| 567 ^P | 23 yr | Cocaine | A | Inhalation | Int abuse | |
| 568 | 24 yr | Cocaine | A/C | Parenteral | Int abuse | |
| 569 ^P | 24 yr | Cocaine | A | Parenteral | Int abuse | |
| 570 | 25 yr | Cocaine | A | Unknown | Int abuse | |
| 571 ^P | 27 yr | Cocaine | A/C | Unknown | Int abuse | |
| 572 | 27 yr | Cocaine | A | Inhalation | Int unknown | 5 µg/mL |
| 573 | 28 yr | Cocaine (crack) | A | Inhalation | Int abuse | |
| 574 | 30 yr | Cocaine (crack) | U | Inhalation | Int abuse | |
| 575 ^P | 30 yr | Cocaine | U | Unknown | Unknown | |
| 576 | 30 yr | Cocaine (crack) | A | Ingestion | Int abuse | |
| 577 | 30 yr | Cocaine | A | Parenteral | Int abuse | |
| 578 | 32 yr | Cocaine | A | Ing/Paren | Int unknown | |
| 579 ^P | 34 yr | Cocaine | A/C | Unknown | Int abuse | |
| 580 | 35 yr | Cocaine | A | Unknown | Int abuse | |
| 581 | 36 yr | Cocaine (crack) | A/C | Inhalation | Int abuse | |
| 582 | 36 yr | Cocaine | U | Unknown | Int abuse | |
| 583 ^P | 36 yr | Cocaine (crack) | A | Inhalation | Int abuse | |
| 584 | 43 yr | Cocaine | A/C | Parenteral | Int abuse | |
| 585 | 45 yr | Cocaine (packets) | U | Ingestion | Int misuse | |
| 586 ^P | 45 yr | Cocaine | C | Unknown | Int abuse | |
| 587 ^P | 55 yr | Cocaine | A | Ingestion | Int misuse | |
| 588 | 39 yr | Cocaine alprazolam | A | Ingestion | Int unknown | |
| 589 | 37 yr | Cocaine amitriptyline ethanol | A/C | Unknown | Int abuse | 50 µg/mL 3-6 h 128 mg/dL 3-6 h |
| 590 | 33 yr | Cocaine amphetamine | A/C | Ingestion | Int abuse | |
| 591 ^P | 29 yr | Cocaine benzodiazepine (unspecified) | A | Ingestion | Int unknown | 3,000 ng/mL |
| 592 | 27 yr | Cocaine ethanol | A/C | Ing/unknown | Int unknown | 195 mg/dL |
| 593 | 36 yr | Cocaine | A | Ingestion | Int abuse | .10 µg/mL§ benzoylecgonine 7.88 µg/mL§ ecgonine methyl ester 2.51 µg/mL§ desalkyl flurazepam 120 ng/mL§ |
| 594 ^P | 30 yr | flurazepam phenelzine Cocaine | A/C | Inhalation | Int abuse | |
| 595 | 33 yr | heroin Cocaine | U | Parenteral | Int abuse | |
| 596 ^P | 32 yr | heroin Cocaine | A/C | Ing/Paren | Int suicide | |
| 597 ^P | 38 yr | ethanol Cocaine marijuana | A | Ing/Paren | Int abuse | 130 mg/dL |
| 598 ^P | 35 yr | benzodiazepines Cocaine meperidine/promethazine diazepam | A | Ingestion | Int suicide | |

(Continued on following page)

TABLE 21. Summary of Fatal Exposures Reported to TESS in 1993 (Cont'd)

| Case | Age | Substances | Chronicity | Route | Reason | Blood Levels |
|------------------|--------|--|------------|-------------|-------------|--|
| 599 ^P | 35 yr | Cocaine methadone | A | Unknown | Int abuse | |
| 600 ^P | 48 yr | Cocaine methadone | A/C | Parenteral | Int abuse | |
| 601 | 34 yr | Cocaine opiates tricyclic antidepressant | U | Ing/Paren | Int unknown | |
| 602 | 39 yr | Cocaine phencyclidine | U | Unknown | Int abuse | benzoylecgonine 0.3 µg/mL§ phencyclidine 0.3 µg/mL§ |
| 603 ^P | 34 yr | Cocaine propoxyphene | A | Unknown | Int abuse | |
| 604 ^P | 26 yr | Cocaine propoxyphene diazepam | A/C | Ing/Inhal | Int suicide | 1.6 µg/mL .46 µg/mL desmethyldiazepam .19 µg/mL |
| 605 | 27 yr | Cocaine Secobarbital | A | Ing/Inhal | Int suicide | |
| 606 | 25 yr | Cocaine warfarin opiates | A | Inhal/Paren | Int abuse | |
| 607 ^P | 30 yr | Heroin | A | Parenteral | Int abuse | |
| 607 ^P | 30 yr | Heroin | A | Unknown | Int abuse | |
| 609 | 34 yr | Heroin | U | Parenteral | Int abuse | |
| 610 ^P | 36 yr | Heroin | A/C | Parenteral | Int abuse | |
| 611 ^P | 37 yr | Heroin | A | Parenteral | Int unknown | |
| 612 | 53 yr | Heroin | C | Parenteral | Int abuse | |
| 613 | >19 yr | Heroin | A | Aspiration | Int abuse | |
| 614 | 25 yr | Heroin | A | Inhalation | Int abuse | |
| 615 ^P | >19 yr | cocaine Heroin cocaine barbiturates | A | Ing/Paren | Int abuse | |
| 616 ^P | 47 yr | Heroin cocaine chlordiazepoxide | A/C | Ing/Paren | Int abuse | |
| 617 ^P | 42 yr | Heroin ethanol | A | Parenteral | Int abuse | morphine .35 µg/mL§ 110 mg/dL§ |
| 618 ^P | 30 yr | Heroin phencyclidine temazepam | A/C | Ingestion | Int abuse | |
| 619 ^P | 43 yr | Heroin unknown cyclic antidepressant | A | Ing/Paren | Int abuse | |
| 620 ^P | 30 yr | Methamphetamine cocaine | A | Parenteral | Int abuse | |
| 621 | 17 yr | Methamphetamine heroin | U | Unknown | Int abuse | |
| 622 | 53 yr | Methylenedioxyamphetamine | A | Ingestion | Int suicide | |
| 623 | 49 yr | Pemoline | A/C | Ingestion | Int suicide | |
| 624 ^P | 37 yr | Phencyclidine amphetamine chlordiazepoxide | A | Ingestion | Int suicide | |

See also cases 407, 590, 624 (amphetamine); 11, 72, 107, 179, 265, 266, 286, 383, 384, 395, 409, 456, 549, 562, 614, 615, 616, 620 (cocaine); 251, 253, 594, 595, 596, 621 (heroin); 597 (marijuana); 317 (methamphetamine); and 602, 618 (phencyclidine).

| Vitamins | | | | | | |
|----------|-------|--|---|-----------|-----------|---------------|
| 625 | 62 yr | Nicotinic acid (slow release) acetaminophen | C | Ingestion | Adv rxn | 40 µg/mL 36 h |
| 626 | 23 mo | Prenatal vitamins with iron | A | Ingestion | Unint gen | 251 µg/dL |

ABBREVIATIONS: A, acute exposure; C, chronic exposure, A/C, acute on chronic; U, unknown.

¹ Reported to poison center indirectly (by coroner, medical examiner, or from other source) after the fatality occurred.

^P Prehospital (cardiac and/or respiratory) arrest.

§ Level obtained postmortem.

[¶] Acetaminophen level.

[†] Salicylate level.

* Level includes metabolite and parent compound.

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|---------------------|---------------|--------------|---------------|---------------|---------------|------------|------------|---|---------------|---------------|--------------|------------|-----------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Adhesives/glues | | | | | | | | | | | | | | |
| Cyanoacrylates | 10,647 | 3,619 | 1,921 | 3,276 | 10,458 | 149 | 18 | 19 | 2,343 | 1,395 | 2,499 | 523 | 7 | 0 |
| Epoxy | 695 | 297 | 50 | 264 | 677 | 8 | 2 | 7 | 241 | 163 | 175 | 62 | 6 | 0 |
| Toluene/xylene | 2,070 | 1,455 | 315 | 210 | 1,988 | 73 | 3 | 4 | 276 | 599 | 457 | 35 | 4 | 0 |
| Nontoxic | 1,482 | 1,040 | 277 | 96 | 1,419 | 44 | 5 | 13 | 88 | 208 | 123 | 4 | 1 | 0 |
| Unknown | 7,141 | 3,475 | 966 | 1,741 | 6,855 | 131 | 38 | 110 | 1,081 | 1,744 | 1,224 | 169 | 8 | 0 |
| Category total | 22,035 | 9,886 | 3,559 | 5,587 | 21,397 | 405 | 66 | 153 | 4,029 | 4,109 | 4,478 | 793 | 26 | 0 |
| Alcohols | | | | | | | | | | | | | | |
| Ethanol (beverage) | 21,347 | 1,394 | 2,827 | 14,403 | 3,425 | 17,286 | 151 | 312 | 15,584 | 2,491 | 6,880 | 2,874 | 543 | 52 |
| Ethanol (other) | 5,856 | 1,559 | 687 | 2,864 | 2,548 | 3,188 | 22 | 55 | 3,022 | 1,081 | 1,538 | 545 | 97 | 0 |
| Higher alcohols | 145 | 49 | 19 | 55 | 131 | 12 | 0 | 1 | 67 | 28 | 40 | 8 | 2 | 0 |
| Isopropanol | 7,774 | 5,275 | 631 | 1,431 | 6,961 | 742 | 25 | 4 | 1,780 | 2,815 | 1,404 | 216 | 37 | 1 |
| Methanol | 813 | 234 | 115 | 334 | 700 | 98 | 4 | 4 | 456 | 255 | 190 | 51 | 16 | 8 |
| Rubbing alcohol | | | | | | | | | | | | | | |
| Ethanol, with methyl salicylate | 36 | 25 | 2 | 7 | 30 | 4 | 1 | 0 | 11 | 15 | 8 | 1 | 1 | 0 |
| Ethanol, without methyl salicylate | 262 | 208 | 20 | 27 | 245 | 15 | 0 | 0 | 43 | 113 | 40 | 4 | 0 | 1 |
| Isopropanol, with methyl salicylate | 229 | 165 | 15 | 44 | 206 | 22 | 1 | 0 | 66 | 93 | 48 | 5 | 1 | 0 |
| Isopropanol, without methyl salicylate | 9,011 | 6,806 | 676 | 1,210 | 8,200 | 752 | 30 | 4 | 1,677 | 3,455 | 1,505 | 148 | 24 | 0 |
| Unknown rubbing alcohol | 248 | 163 | 32 | 36 | 211 | 28 | 6 | 1 | 65 | 63 | 34 | 6 | 0 | 0 |
| Other alcohol | 68 | 35 | 8 | 18 | 56 | 6 | 1 | 4 | 24 | 20 | 16 | 2 | 0 | 0 |
| Unknown alcohol | 805 | 146 | 108 | 465 | 313 | 469 | 3 | 10 | 523 | 143 | 156 | 97 | 21 | 0 |
| *Category total | 46,594 | 16,059 | 5,140 | 20,894 | 23,026 | 22,622 | 244 | 395 | 23,318 | 10,572 | 11,859 | 3,957 | 742 | 62 |
| Arts/crafts/office supplies | | | | | | | | | | | | | | |
| Artist paints, | | | | | | | | | | | | | | |
| non-watercolor | 846 | 625 | 96 | 93 | 830 | 14 | 1 | 1 | 59 | 226 | 80 | 6 | 1 | 0 |
| Chalk | 1,721 | 1,567 | 93 | 44 | 1,693 | 21 | 4 | 2 | 40 | 296 | 59 | 2 | 0 | 0 |
| Clay | 1,389 | 1,218 | 81 | 67 | 1,375 | 12 | 1 | 1 | 55 | 218 | 70 | 6 | 0 | 0 |
| Crayon | 1,952 | 1,758 | 104 | 66 | 1,935 | 15 | 2 | 0 | 43 | 262 | 40 | 0 | 1 | 0 |
| Glazes | 260 | 100 | 43 | 99 | 253 | 4 | 2 | 1 | 55 | 73 | 22 | 7 | 0 | 0 |
| Office supplies: | | | | | | | | | | | | | | |
| miscellaneous | 245 | 104 | 20 | 79 | 244 | 0 | 0 | 1 | 40 | 56 | 49 | 5 | 0 | 0 |
| Pencil | 2,919 | 1,505 | 1,048 | 233 | 2,836 | 36 | 40 | 2 | 222 | 278 | 325 | 12 | 0 | 0 |
| Pens/ink | 12,456 | 9,667 | 2,104 | 442 | 12,190 | 222 | 19 | 21 | 391 | 2,497 | 412 | 29 | 2 | 0 |
| Typewriter correction fluid | 1,761 | 1,119 | 407 | 171 | 1,590 | 150 | 12 | 3 | 219 | 578 | 256 | 14 | 1 | 1 |
| Water color | 2,465 | 1,989 | 262 | 149 | 2,419 | 34 | 1 | 10 | 76 | 476 | 114 | 10 | 1 | 0 |
| Other | 4,828 | 3,751 | 451 | 396 | 4,715 | 75 | 19 | 14 | 243 | 760 | 244 | 48 | 0 | 0 |
| Unknown | 361 | 269 | 53 | 25 | 350 | 10 | 1 | 0 | 29 | 55 | 26 | 1 | 0 | 0 |
| *Category total | 31,203 | 23,672 | 4,762 | 1,854 | 30,430 | 593 | 102 | 56 | 1,472 | 5,775 | 1,697 | 140 | 6 | 1 |
| Auto/aircraft/boat products | | | | | | | | | | | | | | |
| Ethylene glycol | 3,572 | 694 | 473 | 1,753 | 3,328 | 214 | 17 | 1 | 1,336 | 836 | 923 | 209 | 66 | 2 |
| Glycols: other | 1,446 | 493 | 142 | 587 | 1,398 | 39 | 6 | 1 | 487 | 351 | 508 | 68 | 9 | 0 |
| Glycol and methanol | 73 | 18 | 12 | 34 | 68 | 5 | 0 | 0 | 23 | 16 | 27 | 5 | 2 | 0 |
| Hydrocarbons | 3,136 | 1,319 | 411 | 992 | 3,038 | 72 | 16 | 3 | 848 | 747 | 1,245 | 154 | 6 | 0 |
| Methanol | 1,203 | 409 | 162 | 449 | 1,125 | 69 | 4 | 1 | 564 | 417 | 329 | 46 | 12 | 5 |
| Nontoxic | 83 | 65 | 6 | 7 | 78 | 4 | 1 | 0 | 16 | 24 | 9 | 1 | 0 | 0 |
| Other | 1,581 | 541 | 187 | 597 | 1,525 | 48 | 1 | 5 | 594 | 271 | 636 | 113 | 8 | 0 |
| Unknown | 274 | 76 | 35 | 125 | 256 | 15 | 2 | 1 | 117 | 42 | 108 | 20 | 1 | 0 |
| *Category total | 11,368 | 3,615 | 1,428 | 4,544 | 10,816 | 466 | 47 | 12 | 3,985 | 2,704 | 3,785 | 616 | 104 | 7 |
| Batteries | | | | | | | | | | | | | | |
| Automotive batteries | | | | | | | | | | | | | | |
| Disc batteries | | | | | | | | | | | | | | |
| Alkaline (MnO ₂) | 96 | 77 | 11 | 4 | 95 | 1 | 0 | 0 | 66 | 73 | 2 | 0 | 1 | 0 |
| Lithium | 44 | 17 | 3 | 12 | 43 | 1 | 0 | 0 | 26 | 12 | 8 | 1 | 3 | 0 |
| Mercuric oxide | 39 | 19 | 1 | 18 | 38 | 1 | 0 | 0 | 31 | 26 | 3 | 0 | 0 | 0 |
| Nickel cadmium | 4 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| Silver oxide | 58 | 45 | 6 | 4 | 56 | 1 | 0 | 0 | 41 | 36 | 6 | 2 | 0 | 0 |
| Zinc-air | 94 | 48 | 9 | 30 | 92 | 2 | 0 | 0 | 71 | 76 | 0 | 1 | 1 | 0 |
| Other | 16 | 10 | 6 | 0 | 16 | 0 | 0 | 0 | 13 | 9 | 2 | 1 | 0 | 0 |
| Unknown | 1,719 | 1,317 | 276 | 98 | 1,684 | 25 | 2 | 0 | 1,215 | 942 | 74 | 19 | 5 | 0 |
| Dry cell batteries | 3,580 | 2,064 | 804 | 471 | 3,421 | 139 | 6 | 2 | 560 | 913 | 976 | 138 | 3 | 0 |
| Other batteries | 101 | 54 | 23 | 12 | 98 | 2 | 0 | 1 | 20 | 26 | 26 | 5 | 1 | 0 |
| Unknown batteries | 58 | 24 | 12 | 13 | 56 | 2 | 0 | 0 | 16 | 8 | 20 | 3 | 0 | 0 |
| *Category total | 7,452 | 3,863 | 1,380 | 1,484 | 7,222 | 192 | 11 | 3 | 2,620 | 2,284 | 1,848 | 332 | 17 | 1 |
| Bites and envenomations | | | | | | | | | | | | | | |
| Coelenterate | 65 | 17 | 14 | 23 | 65 | 0 | 0 | 0 | 27 | 3 | 20 | 1 | 0 | 0 |
| Fish | 1,164 | 35 | 217 | 724 | 1,102 | 6 | 0 | 56 | 409 | 13 | 449 | 124 | 0 | 0 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|---------------------|----------|--------|--------|--------|-----|-------|------------|---|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Other/unknown marine animal | 175 | 49 | 35 | 64 | 171 | 2 | 0 | 2 | 42 | 21 | 42 | 20 | 0 | 0 |
| Insects | | | | | | | | | | | | | | |
| Ant/fire ant | 2,484 | 1,025 | 361 | 724 | 2,379 | 4 | 2 | 99 | 309 | 42 | 1,024 | 127 | 5 | 0 |
| Bee/wasp/hornet | 16,186 | 3,844 | 3,762 | 6,211 | 15,976 | 17 | 1 | 189 | 1,881 | 255 | 7,268 | 719 | 25 | 1 |
| Caterpillar | 1,701 | 495 | 453 | 642 | 1,545 | 6 | 0 | 149 | 138 | 50 | 553 | 53 | 0 | 0 |
| Centipede/millipede | 85 | 25 | 18 | 28 | 81 | 1 | 0 | 3 | 9 | 7 | 25 | 1 | 0 | 0 |
| Mosquito | 226 | 86 | 46 | 62 | 220 | 0 | 0 | 6 | 43 | 4 | 86 | 15 | 0 | 0 |
| Scorpion | 7,546 | 642 | 1,498 | 3,669 | 7,252 | 5 | 0 | 288 | 599 | 105 | 4,088 | 320 | 10 | 0 |
| Tick | 2,473 | 752 | 546 | 824 | 2,438 | 4 | 1 | 27 | 549 | 200 | 468 | 36 | 1 | 0 |
| Other insect | 7,857 | 1,887 | 1,414 | 3,445 | 7,429 | 16 | 64 | 340 | 1,575 | 327 | 2,516 | 433 | 6 | 0 |
| Mammals | | | | | | | | | | | | | | |
| Bat | 82 | 14 | 12 | 38 | 82 | 0 | 0 | 0 | 47 | 13 | 16 | 3 | 0 | 0 |
| Cat | 555 | 118 | 110 | 214 | 537 | 11 | 0 | 7 | 265 | 16 | 133 | 13 | 0 | 0 |
| Dog | 1,360 | 280 | 502 | 451 | 1,260 | 89 | 2 | 7 | 861 | 50 | 201 | 29 | 2 | 0 |
| Fox | 6 | 2 | 1 | 3 | 6 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| Human | 99 | 39 | 25 | 27 | 87 | 4 | 6 | 1 | 34 | 2 | 22 | 4 | 0 | 0 |
| Raccoon | 62 | 3 | 10 | 38 | 58 | 0 | 0 | 4 | 41 | 8 | 17 | 0 | 0 | 0 |
| Rodents/lagomorphs | 1,623 | 437 | 646 | 327 | 1,592 | 9 | 8 | 13 | 369 | 96 | 388 | 18 | 0 | 0 |
| Skunk | 155 | 19 | 39 | 48 | 154 | 0 | 0 | 1 | 22 | 17 | 32 | 2 | 0 | 0 |
| Other mammal | 559 | 126 | 164 | 185 | 545 | 0 | 0 | 14 | 232 | 43 | 126 | 8 | 1 | 0 |
| Reptile: other/unknown | 919 | 403 | 308 | 132 | 888 | 11 | 3 | 15 | 154 | 77 | 267 | 24 | 1 | 0 |
| Snakes | | | | | | | | | | | | | | |
| Copperhead | 377 | 25 | 85 | 231 | 374 | 0 | 0 | 3 | 326 | 11 | 162 | 129 | 5 | 0 |
| Coral | 43 | 0 | 14 | 23 | 40 | 0 | 0 | 3 | 40 | 7 | 12 | 8 | 1 | 0 |
| Cottonmouth | 48 | 3 | 9 | 33 | 45 | 0 | 0 | 3 | 40 | 4 | 22 | 6 | 1 | 0 |
| Crotalid: unknown | 11 | 0 | 3 | 7 | 11 | 0 | 0 | 0 | 8 | 1 | 4 | 2 | 1 | 0 |
| Rattlesnake | 604 | 40 | 100 | 368 | 565 | 7 | 3 | 28 | 510 | 30 | 154 | 217 | 47 | 0 |
| Exotic snakes | | | | | | | | | | | | | | |
| Poisonous | 67 | 7 | 13 | 38 | 66 | 0 | 0 | 0 | 56 | 2 | 19 | 17 | 13 | 0 |
| Nonpoisonous | 331 | 23 | 115 | 140 | 321 | 3 | 0 | 6 | 127 | 9 | 122 | 18 | 0 | 0 |
| Unknown if poisonous | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Nonpoisonous snake | 1,647 | 236 | 811 | 447 | 1,616 | 3 | 0 | 27 | 337 | 102 | 650 | 19 | 2 | 0 |
| Unknown snake | 1,604 | 148 | 560 | 715 | 1,544 | 8 | 0 | 52 | 940 | 148 | 695 | 175 | 16 | 0 |
| Spiders | | | | | | | | | | | | | | |
| Black widow | 1,818 | 179 | 266 | 1,036 | 1,786 | 0 | 0 | 30 | 608 | 137 | 743 | 254 | 7 | 0 |
| Brown recluse | 1,776 | 179 | 243 | 1,010 | 1,710 | 0 | 0 | 66 | 986 | 43 | 474 | 333 | 24 | 0 |
| Other spider | 1,341 | 197 | 258 | 702 | 1,303 | 1 | 1 | 35 | 297 | 26 | 521 | 98 | 2 | 0 |
| Tarantula | 72 | 10 | 27 | 18 | 70 | 0 | 0 | 2 | 13 | 2 | 42 | 2 | 0 | 0 |
| Unknown insect or spider | 16,951 | 2,900 | 2,956 | 6,487 | 16,808 | 4 | 4 | 128 | 4,097 | 235 | 6,550 | 1,007 | 18 | 0 |
| Other/unknown animal bite | 563 | 60 | 234 | 222 | 470 | 3 | 1 | 89 | 102 | 11 | 154 | 47 | 2 | 0 |
| *Category total | 72,637 | 14,306 | 15,875 | 29,357 | 70,598 | 214 | 96 | 1,693 | 16,097 | 2,118 | 28,065 | 4,282 | 190 | 1 |
| Building and construction products | | | | | | | | | | | | | | |
| Caulking compounds and putties | 2,821 | 2,169 | 149 | 340 | 2,790 | 18 | 5 | 8 | 237 | 767 | 270 | 28 | 2 | 0 |
| Cement, concrete Insulation | 1,111 | 259 | 83 | 497 | 1,096 | 10 | 1 | 1 | 547 | 129 | 288 | 223 | 9 | 0 |
| Asbestos | 143 | 24 | 18 | 74 | 136 | 1 | 2 | 2 | 39 | 17 | 11 | 5 | 0 | 0 |
| Fiberglass | 1,249 | 528 | 201 | 345 | 1,221 | 10 | 3 | 12 | 216 | 176 | 342 | 29 | 0 | 0 |
| Urea/formaldehyde | 118 | 52 | 11 | 41 | 116 | 0 | 0 | 2 | 25 | 22 | 26 | 8 | 0 | 0 |
| Other | 373 | 155 | 28 | 143 | 364 | 6 | 2 | 0 | 30 | 76 | 42 | 10 | 0 | 0 |
| Unknown | 105 | 48 | 12 | 33 | 105 | 0 | 0 | 0 | 18 | 16 | 23 | 4 | 0 | 0 |
| Soldering flux | 429 | 210 | 42 | 118 | 426 | 1 | 1 | 1 | 151 | 99 | 125 | 27 | 4 | 0 |
| Other construction product | 1,479 | 817 | 163 | 346 | 1,449 | 16 | 4 | 9 | 319 | 267 | 312 | 43 | 1 | 0 |
| Unknown construction product | 109 | 34 | 13 | 41 | 109 | 0 | 0 | 0 | 44 | 17 | 33 | 11 | 0 | 0 |
| *Category total | 7,937 | 4,296 | 720 | 1,978 | 7,812 | 62 | 18 | 35 | 1,626 | 1,586 | 1,472 | 388 | 16 | 0 |
| Chemicals | | | | | | | | | | | | | | |
| Acetone | 1,062 | 359 | 127 | 415 | 1,004 | 44 | 7 | 2 | 377 | 188 | 368 | 52 | 7 | 0 |
| Acids | | | | | | | | | | | | | | |
| Hydrochloric | 2,396 | 176 | 381 | 1,326 | 2,311 | 57 | 13 | 2 | 969 | 190 | 979 | 323 | 9 | 0 |
| Hydrofluoric | 1,118 | 90 | 65 | 677 | 1,103 | 12 | 1 | 2 | 888 | 89 | 413 | 346 | 25 | 0 |
| Other | 3,945 | 589 | 490 | 1,976 | 3,828 | 79 | 11 | 13 | 1,848 | 440 | 1,568 | 496 | 30 | 1 |
| Unknown | 426 | 57 | 67 | 210 | 399 | 18 | 5 | 1 | 212 | 28 | 156 | 78 | 1 | 0 |
| Alkali | 4,824 | 1,667 | 669 | 1,671 | 4,628 | 86 | 75 | 20 | 2,046 | 766 | 1,637 | 614 | 44 | 2 |
| Ammonia | 5,080 | 1,578 | 611 | 2,126 | 4,834 | 194 | 29 | 11 | 1,805 | 682 | 1,939 | 510 | 21 | 3 |
| Borates/boric acid | 3,317 | 2,075 | 270 | 758 | 3,102 | 174 | 18 | 10 | 610 | 954 | 304 | 40 | 3 | 0 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|---------------------|----------|-------|--------|--------|-------|-------|------------|---|---------|----------|-------|-------|----|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | None | Minor | Moderate | Major | Death | |
| Chlorates | 38 | 15 | 7 | 14 | 37 | 0 | 1 | 0 | 10 | 7 | 10 | 5 | 1 | 0 |
| Cyanide | 307 | 19 | 11 | 198 | 271 | 29 | 4 | 0 | 215 | 52 | 95 | 35 | 8 | 7 |
| Dioxin | 15 | 2 | 0 | 9 | 15 | 0 | 0 | 0 | 6 | 1 | 3 | 1 | 0 | 0 |
| Formaldehyde/formalin | 1,442 | 241 | 225 | 656 | 1,368 | 47 | 6 | 13 | 660 | 178 | 563 | 87 | 3 | 0 |
| Glycol: ethylene | 501 | 102 | 69 | 234 | 409 | 71 | 6 | 1 | 254 | 93 | 101 | 46 | 24 | 11 |
| Glycol: other | 1,065 | 505 | 94 | 318 | 1,034 | 20 | 2 | 6 | 386 | 228 | 276 | 69 | 6 | 1 |
| Ketones | 844 | 223 | 66 | 406 | 824 | 13 | 2 | 2 | 425 | 138 | 288 | 92 | 3 | 0 |
| Methylene chloride | 718 | 105 | 67 | 395 | 697 | 8 | 2 | 3 | 371 | 66 | 292 | 92 | 1 | 0 |
| Nitrates and nitrites | 791 | 231 | 235 | 225 | 725 | 39 | 16 | 10 | 231 | 176 | 189 | 42 | 3 | 1 |
| Phenol/creosote | 1,216 | 213 | 139 | 577 | 1,193 | 13 | 2 | 4 | 508 | 144 | 468 | 136 | 7 | 0 |
| Strychnine | 14 | 3 | 0 | 10 | 7 | 6 | 1 | 0 | 9 | 5 | 1 | 1 | 2 | 1 |
| Toluene diisocyanate | 401 | 56 | 39 | 207 | 398 | 1 | 0 | 2 | 159 | 48 | 121 | 32 | 0 | 0 |
| Other chemicals | 12,654 | 4,016 | 1,559 | 4,752 | 11,985 | 357 | 104 | 149 | 4,554 | 2,438 | 3,488 | 830 | 48 | 6 |
| Unknown chemicals | 2,066 | 1,019 | 259 | 488 | 1,986 | 29 | 27 | 20 | 404 | 327 | 265 | 82 | 1 | 0 |
| *Category total | 44,240 | 13,341 | 5,450 | 17,648 | 42,158 | 1,297 | 332 | 271 | 16,947 | 7,238 | 13,524 | 4,009 | 247 | 33 |
| Cleaning substances (household) | | | | | | | | | | | | | | |
| Ammonia cleaners (all purpose) | 3,902 | 1,956 | 325 | 1,228 | 3,756 | 117 | 14 | 10 | 697 | 797 | 1,188 | 158 | 1 | 0 |
| Automatic dishwasher detergents | | | | | | | | | | | | | | |
| Granules | 4,962 | 4,340 | 179 | 305 | 4,926 | 26 | 9 | 1 | 185 | 2,100 | 879 | 33 | 1 | 0 |
| Liquids | 1,827 | 1,461 | 86 | 182 | 1,812 | 10 | 2 | 3 | 92 | 728 | 301 | 23 | 1 | 0 |
| Rinse agents | 703 | 649 | 18 | 25 | 702 | 1 | 0 | 0 | 20 | 250 | 81 | 2 | 0 | 0 |
| Other/unknown | 902 | 735 | 53 | 71 | 895 | 4 | 2 | 1 | 77 | 337 | 171 | 18 | 1 | 0 |
| Bleaches | | | | | | | | | | | | | | |
| Borate | 618 | 328 | 50 | 136 | 574 | 13 | 3 | 27 | 89 | 145 | 168 | 18 | 0 | 0 |
| Hypochlorite | 39,824 | 17,777 | 3,781 | 12,668 | 38,223 | 1,244 | 187 | 113 | 8,229 | 6,758 | 13,651 | 1,516 | 35 | 3 |
| Nonhypochlorite | 1,331 | 785 | 73 | 313 | 1,283 | 23 | 1 | 21 | 175 | 295 | 356 | 26 | 1 | 0 |
| Other/unknown | 220 | 90 | 23 | 80 | 209 | 8 | 1 | 2 | 58 | 34 | 66 | 10 | 0 | 0 |
| Carpet/upholstery cleaners | 3,085 | 2,374 | 158 | 390 | 3,013 | 39 | 4 | 26 | 279 | 845 | 576 | 45 | 1 | 0 |
| Cleaners | | | | | | | | | | | | | | |
| Anionic/nonionic | 7,982 | 6,188 | 491 | 831 | 7,760 | 159 | 24 | 34 | 738 | 2,548 | 1,408 | 114 | 3 | 0 |
| Other/unknown | 2,226 | 1,347 | 153 | 414 | 2,162 | 38 | 12 | 6 | 310 | 542 | 457 | 69 | 2 | 0 |
| Disinfectants | | | | | | | | | | | | | | |
| Hypochlorite | 4,469 | 1,773 | 527 | 1,391 | 4,380 | 61 | 17 | 7 | 1,052 | 801 | 1,716 | 283 | 6 | 0 |
| Phenol | 3,404 | 2,269 | 251 | 640 | 3,201 | 181 | 13 | 5 | 539 | 895 | 847 | 75 | 5 | 0 |
| Pine oil | 10,308 | 7,622 | 623 | 1,397 | 9,869 | 372 | 25 | 25 | 1,991 | 3,600 | 2,300 | 211 | 8 | 1 |
| Other/unknown | 2,046 | 1,087 | 209 | 524 | 1,936 | 95 | 9 | 5 | 554 | 515 | 625 | 92 | 5 | 1 |
| Drain cleaners | | | | | | | | | | | | | | |
| Acid | 879 | 94 | 68 | 500 | 847 | 23 | 6 | 1 | 356 | 80 | 408 | 138 | 9 | 3 |
| Alkali | 2,777 | 558 | 226 | 1,315 | 2,560 | 192 | 13 | 6 | 1,077 | 388 | 1,039 | 357 | 34 | 3 |
| Other/unknown | 340 | 77 | 22 | 174 | 321 | 15 | 2 | 0 | 129 | 43 | 126 | 33 | 1 | 0 |
| Fabric softeners/ antistatic agents | | | | | | | | | | | | | | |
| Aerosol/spray | 64 | 30 | 7 | 21 | 62 | 0 | 0 | 2 | 4 | 10 | 18 | 2 | 0 | 0 |
| Dry/powder | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Liquid | 1,161 | 899 | 65 | 123 | 1,116 | 19 | 0 | 26 | 82 | 350 | 155 | 9 | 1 | 0 |
| Solid/sheet | 440 | 363 | 22 | 28 | 416 | 1 | 0 | 22 | 27 | 107 | 28 | 1 | 0 | 0 |
| Other/unknown | 23 | 19 | 0 | 4 | 22 | 0 | 0 | 1 | 1 | 5 | 4 | 0 | 0 | 0 |
| Glass cleaners | | | | | | | | | | | | | | |
| Ammonia | 2,782 | 2,162 | 240 | 275 | 2,681 | 81 | 11 | 1 | 277 | 738 | 564 | 23 | 4 | 1 |
| Anionic/nonionic | 44 | 31 | 4 | 4 | 41 | 3 | 0 | 0 | 6 | 16 | 7 | 1 | 0 | 0 |
| Isopropanol | 2,553 | 2,022 | 199 | 210 | 2,499 | 42 | 6 | 4 | 211 | 773 | 532 | 33 | 2 | 0 |
| Other/unknown | 4,678 | 3,779 | 389 | 342 | 4,551 | 111 | 13 | 1 | 398 | 1,447 | 1,041 | 38 | 2 | 0 |
| Hand dishwashing | | | | | | | | | | | | | | |
| Anionic/nonionic | 8,357 | 5,557 | 707 | 1,220 | 8,094 | 98 | 76 | 78 | 408 | 1,725 | 2,402 | 77 | 0 | 0 |
| Other/unknown | 1,870 | 1,101 | 189 | 414 | 1,787 | 37 | 16 | 27 | 205 | 295 | 415 | 21 | 0 | 0 |
| Laundry additives | | | | | | | | | | | | | | |
| Bluing/brightening agent | 49 | 35 | 7 | 3 | 45 | 3 | 1 | 0 | 6 | 23 | 9 | 1 | 0 | 0 |
| Detergent booster | 44 | 25 | 3 | 11 | 41 | 3 | 0 | 0 | 6 | 21 | 11 | 0 | 0 | 0 |
| Enzyme/microbiological additive | 34 | 24 | 1 | 5 | 34 | 0 | 0 | 0 | 4 | 12 | 4 | 2 | 0 | 0 |
| Water softener | 73 | 29 | 3 | 13 | 69 | 0 | 2 | 0 | 17 | 14 | 17 | 1 | 0 | 0 |
| Other/unknown | 267 | 194 | 18 | 32 | 260 | 2 | 0 | 4 | 48 | 64 | 74 | 15 | 2 | 0 |
| Laundry Detergents | | | | | | | | | | | | | | |
| Granules | 8,661 | 7,333 | 385 | 562 | 8,429 | 78 | 16 | 130 | 1,038 | 2,408 | 2,518 | 169 | 9 | 0 |
| Liquids | 3,552 | 2,569 | 227 | 516 | 3,362 | 63 | 11 | 116 | 420 | 734 | 977 | 57 | 1 | 1 |
| Soaps | 105 | 77 | 10 | 14 | 100 | 0 | 0 | 4 | 14 | 22 | 26 | 1 | 0 | 0 |
| Other/unknown | 312 | 218 | 20 | 58 | 293 | 6 | 3 | 7 | 85 | 103 | 61 | 6 | 0 | 0 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|--|------------------|----------|--------|--------|---------|-------|-------|---------|---------------------------------|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Laundry prewash/stain removers | | | | | | | | | | | | | | |
| Dry solvent-based | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liquid solvent-based | 199 | 136 | 11 | 33 | 197 | 1 | 0 | 1 | 21 | 69 | 55 | 4 | 0 | 0 |
| Spray solvent-based | 476 | 354 | 26 | 58 | 463 | 6 | 2 | 3 | 69 | 122 | 149 | 20 | 0 | 0 |
| Other/unknown solvent-based | 160 | 105 | 11 | 31 | 155 | 2 | 1 | 2 | 17 | 52 | 26 | 3 | 0 | 0 |
| Dry surfactant-based | 739 | 672 | 27 | 21 | 735 | 3 | 0 | 1 | 22 | 217 | 90 | 4 | 0 | 0 |
| Liquid surfactant-based | 1,731 | 1,491 | 62 | 117 | 1,712 | 11 | 3 | 4 | 185 | 500 | 372 | 33 | 1 | 0 |
| Spray surfactant-based | 349 | 292 | 11 | 30 | 345 | 3 | 0 | 0 | 37 | 75 | 121 | 6 | 0 | 0 |
| Other/unknown surfactant-based | 124 | 112 | 5 | 3 | 124 | 0 | 0 | 0 | 2 | 32 | 19 | 0 | 0 | 0 |
| Other/unknown | 70 | 43 | 6 | 13 | 69 | 0 | 0 | 1 | 14 | 15 | 31 | 1 | 0 | 0 |
| Miscellaneous cleaner | | | | | | | | | | | | | | |
| Acid | 837 | 317 | 51 | 330 | 822 | 10 | 3 | 1 | 227 | 182 | 293 | 53 | 0 | 1 |
| Alkali | 6,564 | 3,527 | 609 | 1,657 | 6,327 | 166 | 38 | 23 | 1,979 | 1,697 | 2,009 | 466 | 19 | 1 |
| Anionic/nonionic | 7,430 | 5,160 | 530 | 1,210 | 7,183 | 151 | 28 | 49 | 989 | 1,892 | 1,818 | 130 | 2 | 0 |
| Cationic | 3,009 | 1,662 | 306 | 746 | 2,894 | 90 | 5 | 15 | 735 | 775 | 837 | 134 | 5 | 0 |
| Ethanol | 419 | 298 | 32 | 63 | 411 | 7 | 1 | 0 | 59 | 131 | 99 | 9 | 0 | 0 |
| Glycols | 836 | 476 | 81 | 195 | 810 | 18 | 5 | 3 | 185 | 218 | 209 | 27 | 3 | 0 |
| Isopropanol | 1,094 | 754 | 130 | 134 | 1,074 | 15 | 3 | 2 | 130 | 367 | 245 | 17 | 2 | 0 |
| Methanol | 34 | 26 | 4 | 3 | 33 | 1 | 0 | 0 | 4 | 7 | 4 | 2 | 0 | 0 |
| Phenol | 16 | 6 | 6 | 3 | 15 | 1 | 0 | 0 | 7 | 4 | 7 | 0 | 0 | 0 |
| Other/unknown | 3,067 | 1,714 | 300 | 732 | 2,937 | 80 | 26 | 18 | 708 | 759 | 855 | 115 | 4 | 0 |
| Oven cleaner | | | | | | | | | | | | | | |
| Acid | 9 | 2 | 1 | 4 | 9 | 0 | 0 | 0 | 6 | 0 | 2 | 3 | 0 | 0 |
| Alkali | 3,071 | 806 | 326 | 1,316 | 2,977 | 57 | 22 | 13 | 1,357 | 247 | 1,243 | 478 | 25 | 1 |
| Detergent type | 4 | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other/unknown | 347 | 74 | 47 | 131 | 339 | 5 | 2 | 1 | 114 | 42 | 117 | 28 | 1 | 0 |
| Rust remover | | | | | | | | | | | | | | |
| Alkali | 57 | 23 | 6 | 20 | 55 | 0 | 0 | 2 | 15 | 18 | 19 | 5 | 0 | 0 |
| Anionic/nonionic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydrofluoric acid | 1,532 | 154 | 100 | 694 | 1,496 | 33 | 1 | 0 | 965 | 176 | 631 | 410 | 13 | 1 |
| Acid other | 227 | 97 | 22 | 78 | 216 | 7 | 3 | 1 | 75 | 53 | 59 | 21 | 1 | 0 |
| Other/unknown | 275 | 55 | 11 | 146 | 266 | 6 | 1 | 2 | 72 | 39 | 106 | 27 | 0 | 0 |
| Spot remover/dry cleaning agent | | | | | | | | | | | | | | |
| Anionic/nonionic | 249 | 161 | 21 | 45 | 239 | 1 | 6 | 3 | 36 | 54 | 85 | 5 | 0 | 0 |
| Glycol | 82 | 57 | 6 | 14 | 82 | 0 | 0 | 0 | 12 | 26 | 19 | 2 | 0 | 0 |
| Carbon tetrachloride | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Perchloroethylene | 72 | 35 | 9 | 23 | 67 | 5 | 0 | 0 | 29 | 25 | 19 | 4 | 0 | 0 |
| Other halogenated hydrocarbon | 179 | 60 | 27 | 67 | 159 | 16 | 1 | 3 | 52 | 41 | 41 | 15 | 0 | 0 |
| Isopropanol | 96 | 72 | 7 | 11 | 96 | 0 | 0 | 0 | 13 | 35 | 21 | 0 | 0 | 0 |
| Other nonhalogenated hydrocarbon | 173 | 110 | 15 | 37 | 164 | 7 | 1 | 1 | 35 | 56 | 58 | 7 | 1 | 0 |
| Other/unknown | 95 | 43 | 5 | 32 | 91 | 2 | 0 | 2 | 18 | 30 | 31 | 5 | 0 | 0 |
| Starch/fabric finishes/sizing | 1,129 | 924 | 83 | 85 | 1,095 | 21 | 3 | 8 | 51 | 262 | 147 | 2 | 1 | 0 |
| Toilet bowl cleaner | | | | | | | | | | | | | | |
| Acid | 2,940 | 1,183 | 229 | 1,002 | 2,802 | 119 | 6 | 4 | 905 | 643 | 1,130 | 239 | 17 | 3 |
| Alkali | 356 | 213 | 16 | 79 | 352 | 4 | 0 | 0 | 63 | 120 | 63 | 11 | 0 | 0 |
| Other/unknown | 2,096 | 1,633 | 112 | 237 | 2,058 | 33 | 1 | 3 | 200 | 657 | 257 | 33 | 1 | 1 |
| Wall/floor/tile cleaner | | | | | | | | | | | | | | |
| Acid | 3,260 | 1,490 | 254 | 1,024 | 3,199 | 48 | 6 | 6 | 784 | 751 | 1,266 | 213 | 5 | 0 |
| Alkali | 7,279 | 4,082 | 619 | 1,605 | 7,098 | 119 | 26 | 28 | 1,706 | 1,735 | 2,540 | 365 | 5 | 0 |
| Anionic/nonionic | 716 | 518 | 49 | 93 | 700 | 13 | 1 | 2 | 78 | 192 | 139 | 15 | 0 | 0 |
| Cationic | 799 | 554 | 61 | 132 | 777 | 14 | 2 | 4 | 122 | 205 | 165 | 16 | 0 | 0 |
| Ethanol | 3 | 1 | 0 | 2 | 3 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 |
| Glycols | 522 | 367 | 37 | 88 | 509 | 7 | 3 | 3 | 74 | 139 | 112 | 14 | 1 | 0 |
| Isopropanol | 99 | 67 | 8 | 7 | 98 | 0 | 0 | 1 | 3 | 9 | 9 | 0 | 0 | 0 |
| Methanol | 4 | 1 | 0 | 2 | 4 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 |
| Other/unknown | 458 | 232 | 42 | 127 | 435 | 16 | 1 | 5 | 123 | 106 | 122 | 32 | 0 | 0 |
| *Category total | 180,161 | 108,140 | 14,204 | 38,920 | 174,031 | 4,266 | 700 | 931 | 32,206 | 43,348 | 50,868 | 6,653 | 242 | 21 |
| Industrial cleaners | | | | | | | | | | | | | | |
| Acids | 1,026 | 172 | 117 | 511 | 995 | 22 | 4 | 4 | 464 | 147 | 378 | 131 | 4 | 0 |
| Alkali | 2,198 | 419 | 306 | 1,026 | 2,120 | 47 | 20 | 8 | 1,325 | 228 | 906 | 425 | 23 | 0 |
| Anionic/nonionic | 341 | 113 | 50 | 113 | 322 | 14 | 3 | 1 | 127 | 55 | 136 | 31 | 0 | 0 |
| Cationic | 504 | 94 | 89 | 209 | 462 | 34 | 4 | 1 | 273 | 85 | 206 | 55 | 4 | 0 |
| Other/unknown | 1,538 | 324 | 216 | 671 | 1,481 | 37 | 11 | 5 | 777 | 215 | 661 | 177 | 4 | 1 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|--------------------------------------|------------------|----------|--------|--------|---------|-------|-------|---------|---------------------------------|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| *Category total | 5,607 | 1,122 | 778 | 2,530 | 5,380 | 154 | 42 | 19 | 2,966 | 730 | 2,287 | 819 | 35 | 1 |
| Cosmetics/personal care products | | | | | | | | | | | | | | |
| Bath oil, bubble bath | 6,481 | 5,962 | 281 | 185 | 6,376 | 26 | 11 | 65 | 220 | 1,776 | 802 | 23 | 0 | 0 |
| Creams, lotions, make-up | 13,825 | 10,961 | 866 | 1,451 | 13,193 | 219 | 51 | 333 | 711 | 2,868 | 1,247 | 75 | 7 | 0 |
| Dental care products | | | | | | | | | | | | | | |
| False teeth cleaning | 1,107 | 261 | 70 | 680 | 1,082 | 17 | 5 | 2 | 94 | 368 | 134 | 9 | 0 | 0 |
| Toothpaste with fluoride | 2,507 | 1,990 | 181 | 141 | 2,346 | 34 | 22 | 102 | 143 | 725 | 571 | 21 | 0 | 0 |
| Toothpaste without fluoride | 223 | 161 | 23 | 24 | 207 | 5 | 1 | 10 | 23 | 47 | 33 | 4 | 0 | 0 |
| Other | 1,038 | 676 | 68 | 170 | 1,007 | 15 | 3 | 13 | 127 | 222 | 355 | 10 | 2 | 0 |
| Deodorants | 9,180 | 7,833 | 538 | 509 | 8,914 | 125 | 26 | 112 | 370 | 1,875 | 989 | 58 | 3 | 0 |
| Depilatories | 515 | 161 | 69 | 206 | 372 | 39 | 3 | 101 | 136 | 75 | 189 | 42 | 0 | 0 |
| Douches | 235 | 166 | 11 | 27 | 218 | 7 | 0 | 9 | 34 | 85 | 22 | 3 | 0 | 0 |
| Eye products | 1,051 | 828 | 51 | 115 | 1,008 | 7 | 1 | 35 | 75 | 213 | 99 | 24 | 0 | 0 |
| Hair care products | | | | | | | | | | | | | | |
| Coloring agents | 1,422 | 621 | 110 | 458 | 1,262 | 20 | 1 | 136 | 366 | 280 | 472 | 91 | 1 | 0 |
| Rinses, conditioners, relaxers | 3,184 | 2,490 | 233 | 352 | 3,064 | 62 | 6 | 48 | 730 | 999 | 675 | 167 | 6 | 0 |
| Shampoos | 8,236 | 6,509 | 641 | 801 | 7,940 | 195 | 10 | 74 | 659 | 1,918 | 1,649 | 77 | 1 | 0 |
| Sprays | 4,472 | 2,873 | 776 | 607 | 4,003 | 395 | 33 | 30 | 621 | 1,083 | 1,277 | 79 | 11 | 0 |
| Other | 3,082 | 2,072 | 269 | 466 | 2,895 | 71 | 13 | 97 | 583 | 802 | 657 | 129 | 4 | 0 |
| Lipsticks/balms, with camphor | 502 | 449 | 29 | 14 | 495 | 2 | 1 | 4 | 21 | 118 | 56 | 2 | 0 | 0 |
| Lipsticks/balms, without camphor | 2,210 | 2,088 | 66 | 36 | 2,187 | 11 | 1 | 9 | 41 | 305 | 83 | 0 | 0 | 0 |
| Mouthwash | | | | | | | | | | | | | | |
| Ethanol | 4,351 | 2,277 | 710 | 1,070 | 3,693 | 586 | 37 | 23 | 811 | 1,428 | 856 | 98 | 16 | 1 |
| Nonethanol | 577 | 369 | 104 | 82 | 512 | 53 | 3 | 7 | 132 | 216 | 109 | 10 | 0 | 0 |
| Fluoride | 1,144 | 888 | 205 | 38 | 1,120 | 19 | 0 | 5 | 52 | 409 | 75 | 4 | 0 | 0 |
| Unknown | 151 | 36 | 91 | 13 | 131 | 13 | 6 | 1 | 22 | 22 | 74 | 3 | 0 | 0 |
| Nail products | | | | | | | | | | | | | | |
| Polish | 8,250 | 7,381 | 473 | 279 | 8,141 | 85 | 11 | 8 | 564 | 2,336 | 1,531 | 67 | 0 | 0 |
| Polish removers: acetone | 2,915 | 2,351 | 229 | 260 | 2,831 | 73 | 6 | 4 | 356 | 1,189 | 543 | 23 | 2 | 0 |
| Polish removers: other | 1,515 | 1,203 | 141 | 124 | 1,484 | 27 | 3 | 1 | 134 | 545 | 279 | 12 | 1 | 0 |
| Polish removers: unknown | 6,425 | 5,071 | 579 | 551 | 6,218 | 177 | 20 | 2 | 777 | 2,222 | 1,074 | 42 | 0 | 0 |
| Other miscellaneous | 2,964 | 1,951 | 348 | 437 | 2,901 | 24 | 6 | 31 | 730 | 658 | 838 | 184 | 5 | 0 |
| Perfume, cologne, aftershave | 28,104 | 25,441 | 1,264 | 1,139 | 27,629 | 373 | 44 | 30 | 1,785 | 10,051 | 4,135 | 99 | 5 | 0 |
| Peroxide | 10,371 | 5,884 | 1,005 | 2,569 | 10,013 | 270 | 29 | 47 | 775 | 2,328 | 1,856 | 111 | 7 | 0 |
| Powders: talc | 2,939 | 2,621 | 156 | 121 | 2,864 | 59 | 1 | 12 | 313 | 794 | 810 | 37 | 1 | 0 |
| Powders: without talc | 900 | 837 | 38 | 16 | 886 | 4 | 6 | 4 | 29 | 168 | 192 | 3 | 0 | 0 |
| Soaps | 9,986 | 7,581 | 692 | 1,217 | 9,494 | 134 | 59 | 290 | 639 | 2,492 | 1,782 | 85 | 3 | 1 |
| Suntan/sunscreen products | 3,999 | 3,212 | 370 | 238 | 3,860 | 13 | 3 | 120 | 277 | 718 | 1,254 | 34 | 1 | 0 |
| *Category total | 143,861 | 113,204 | 10,687 | 14,396 | 138,346 | 3,160 | 422 | 1,765 | 12,350 | 39,335 | 24,718 | 1,626 | 76 | 2 |
| Deodorizers | | | | | | | | | | | | | | |
| Air fresheners | 10,759 | 9,333 | 659 | 559 | 10,564 | 136 | 31 | 17 | 763 | 3,361 | 1,862 | 57 | 6 | 1 |
| Diaper pail deodorizers | 1,153 | 1,107 | 33 | 8 | 1,151 | 1 | 0 | 0 | 41 | 433 | 43 | 2 | 0 | 0 |
| Toilet bowl deodorizers | 954 | 882 | 34 | 23 | 947 | 6 | 1 | 0 | 81 | 360 | 74 | 6 | 1 | 0 |
| Other | 2,474 | 1,940 | 180 | 248 | 2,417 | 38 | 5 | 12 | 340 | 808 | 473 | 35 | 0 | 0 |
| Unknown | 151 | 116 | 11 | 21 | 144 | 7 | 0 | 0 | 32 | 49 | 34 | 2 | 0 | 0 |
| *Category total | 15,491 | 13,378 | 917 | 859 | 15,223 | 188 | 37 | 29 | 1,257 | 5,011 | 2,486 | 102 | 7 | 1 |
| Dyes | | | | | | | | | | | | | | |
| Fabric | 839 | 680 | 61 | 58 | 827 | 5 | 0 | 7 | 72 | 256 | 40 | 3 | 0 | 0 |
| Food dye (e.g., Easter egg) | 1,033 | 920 | 70 | 26 | 1,011 | 11 | 2 | 7 | 16 | 238 | 34 | 0 | 1 | 0 |
| Leather | 109 | 92 | 3 | 11 | 108 | 1 | 0 | 0 | 12 | 33 | 8 | 0 | 0 | 0 |
| Other | 440 | 243 | 97 | 76 | 413 | 11 | 0 | 15 | 55 | 109 | 49 | 10 | 1 | 0 |
| Unknown | 81 | 51 | 7 | 10 | 74 | 0 | 1 | 5 | 16 | 16 | 9 | 2 | 1 | 0 |
| *Category total | 2,502 | 1,986 | 238 | 181 | 2,433 | 28 | 3 | 34 | 171 | 652 | 140 | 15 | 3 | 0 |
| Essential oils | 3,120 | 2,118 | 486 | 371 | 2,915 | 126 | 24 | 46 | 436 | 734 | 1,174 | 45 | 1 | 0 |
| Fertilizers | | | | | | | | | | | | | | |
| Household plant food | 4,716 | 3,248 | 556 | 666 | 4,674 | 31 | 9 | 1 | 136 | 1,162 | 194 | 13 | 0 | 0 |
| Outdoor fertilizers | 1,705 | 1,081 | 196 | 310 | 1,679 | 11 | 4 | 9 | 135 | 445 | 168 | 27 | 0 | 0 |
| Plant hormones | 135 | 56 | 13 | 41 | 132 | 1 | 0 | 1 | 34 | 32 | 18 | 7 | 0 | 0 |
| Other | 286 | 189 | 25 | 40 | 281 | 3 | 0 | 2 | 33 | 66 | 37 | 4 | 0 | 0 |
| Unknown | 1,408 | 992 | 143 | 191 | 1,379 | 12 | 3 | 10 | 150 | 389 | 149 | 20 | 2 | 0 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|---------------------|----------|-------|--------|--------|-----|-------|------------|---|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| *Category total | 8,250 | 5,566 | 933 | 1,248 | 8,145 | 58 | 16 | 23 | 488 | 2,094 | 566 | 71 | 2 | 0 |
| Fire extinguishers | 2,386 | 273 | 562 | 1,023 | 2,216 | 64 | 90 | 8 | 753 | 333 | 964 | 128 | 2 | 0 |
| Food products/food poisoning | 59,997 | 15,940 | 9,341 | 24,919 | 53,155 | 539 | 1,345 | 4,798 | 6,613 | 6,132 | 11,103 | 1,883 | 54 | 3 |
| Foreign bodies/toys/ miscellaneous | | | | | | | | | | | | | | |
| Ashes | 613 | 557 | 21 | 26 | 604 | 5 | 3 | 1 | 36 | 120 | 65 | 3 | 0 | 0 |
| Bubble blowing solutions | 3,568 | 3,329 | 152 | 55 | 3,552 | 9 | 2 | 3 | 113 | 654 | 954 | 14 | 0 | 0 |
| Charcoal | 774 | 576 | 52 | 71 | 746 | 24 | 0 | 4 | 64 | 137 | 78 | 17 | 9 | 1 |
| Christmas ornaments | 1,311 | 1,134 | 92 | 60 | 1,302 | 5 | 1 | 3 | 87 | 272 | 97 | 5 | 0 | 0 |
| Coins | 3,915 | 3,271 | 563 | 53 | 3,877 | 24 | 1 | 2 | 1,431 | 1,163 | 361 | 46 | 2 | 0 |
| Desiccants | 14,578 | 12,986 | 982 | 392 | 14,418 | 117 | 30 | 8 | 445 | 2,049 | 119 | 8 | 0 | 0 |
| Feces/urine | 2,750 | 2,292 | 174 | 153 | 2,669 | 15 | 56 | 4 | 133 | 536 | 131 | 10 | 1 | 0 |
| Glass | 1,226 | 531 | 142 | 382 | 1,034 | 20 | 160 | 8 | 148 | 253 | 90 | 9 | 1 | 0 |
| Incense, punk | 286 | 246 | 19 | 16 | 275 | 10 | 1 | 0 | 19 | 72 | 29 | 6 | 0 | 0 |
| Soil | 1,762 | 1,559 | 77 | 97 | 1,755 | 4 | 2 | 1 | 51 | 331 | 85 | 6 | 0 | 0 |
| Thermometer | 11,815 | 6,596 | 3,187 | 1,184 | 11,713 | 74 | 11 | 9 | 638 | 1,830 | 204 | 7 | 4 | 0 |
| Toys | 4,498 | 3,396 | 945 | 94 | 4,436 | 47 | 8 | 6 | 243 | 849 | 527 | 17 | 0 | 0 |
| Other | 14,360 | 9,184 | 3,135 | 1,318 | 13,809 | 217 | 253 | 64 | 1,715 | 2,812 | 1,815 | 135 | 4 | 0 |
| Unknown | 184 | 118 | 26 | 26 | 152 | 6 | 24 | 2 | 33 | 31 | 37 | 3 | 0 | 0 |
| *Category total | 61,640 | 45,775 | 9,567 | 3,927 | 60,342 | 577 | 552 | 115 | 5,156 | 11,109 | 4,592 | 286 | 21 | 1 |
| Fumes/gases/vapors | | | | | | | | | | | | | | |
| Carbon dioxide | 431 | 40 | 114 | 209 | 401 | 23 | 2 | 1 | 179 | 32 | 139 | 36 | 5 | 0 |
| Carbon monoxide | 12,879 | 1,764 | 1,903 | 6,444 | 12,553 | 274 | 1 | 11 | 5,932 | 1,218 | 4,615 | 1,288 | 165 | 32 |
| Chloramine | 2,804 | 91 | 167 | 1,952 | 2,707 | 95 | 1 | 1 | 833 | 73 | 1,430 | 360 | 6 | 0 |
| Chlorine: acid mixed with hypochlorite | 790 | 22 | 81 | 578 | 770 | 18 | 1 | 1 | 240 | 30 | 422 | 169 | 0 | 0 |
| Chlorine: other | 5,044 | 494 | 991 | 2,584 | 4,939 | 73 | 6 | 20 | 1,718 | 251 | 2,470 | 692 | 11 | 0 |
| Hydrogen sulfide | 1,144 | 112 | 155 | 498 | 1,139 | 1 | 1 | 0 | 412 | 115 | 408 | 95 | 12 | 2 |
| Methane and natural gas | 2,956 | 480 | 486 | 1,312 | 2,900 | 50 | 1 | 0 | 1,107 | 374 | 1,115 | 172 | 8 | 0 |
| Polymer fume fever | 11 | 2 | 0 | 7 | 11 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 |
| Propane/simple asphyxiants | 2,177 | 215 | 452 | 1,042 | 1,964 | 198 | 3 | 1 | 792 | 218 | 777 | 185 | 11 | 0 |
| Other | 2,028 | 223 | 259 | 1,061 | 1,982 | 26 | 7 | 9 | 878 | 222 | 761 | 169 | 10 | 0 |
| Unknown | 1,814 | 139 | 279 | 820 | 1,782 | 13 | 14 | 4 | 627 | 118 | 720 | 133 | 3 | 0 |
| *Category total | 32,078 | 3,582 | 4,887 | 16,507 | 31,148 | 771 | 37 | 48 | 12,718 | 2,652 | 12,861 | 3,299 | 231 | 34 |
| Fungicides | | | | | | | | | | | | | | |
| Carbamate fungicide | 238 | 73 | 18 | 112 | 230 | 3 | 1 | 4 | 74 | 53 | 65 | 11 | 2 | 0 |
| Mercurial fungicide | 7 | 1 | 1 | 5 | 7 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 |
| Nonmercurial fungicide | 260 | 63 | 26 | 132 | 253 | 3 | 0 | 3 | 98 | 33 | 76 | 22 | 2 | 0 |
| Phthalimide fungicide | 231 | 135 | 30 | 46 | 227 | 2 | 2 | 0 | 40 | 52 | 20 | 6 | 1 | 0 |
| Other/unknown | 371 | 123 | 40 | 141 | 362 | 4 | 1 | 3 | 90 | 75 | 79 | 15 | 1 | 0 |
| *Category total | 1,107 | 395 | 115 | 436 | 1,079 | 12 | 4 | 10 | 305 | 213 | 242 | 54 | 6 | 0 |
| Heavy metals | | | | | | | | | | | | | | |
| Aluminum | 691 | 345 | 60 | 184 | 674 | 9 | 3 | 4 | 131 | 143 | 65 | 16 | 2 | 0 |
| Arsenic (excluding pesticides) | 487 | 48 | 28 | 288 | 388 | 21 | 40 | 3 | 296 | 88 | 59 | 28 | 9 | 1 |
| Barium | 27 | 4 | 4 | 13 | 23 | 1 | 1 | 2 | 11 | 1 | 8 | 0 | 1 | 0 |
| Cadmium | 75 | 17 | 7 | 44 | 68 | 2 | 1 | 0 | 35 | 8 | 16 | 5 | 0 | 0 |
| Copper | 887 | 189 | 311 | 271 | 822 | 29 | 15 | 7 | 290 | 134 | 302 | 40 | 2 | 0 |
| Fireplace flame colors | 14 | 13 | 0 | 1 | 14 | 0 | 0 | 0 | 0 | 7 | 0 | 1 | 0 | 0 |
| Gold | 5 | 4 | 0 | 1 | 4 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| Lead | 2,874 | 1,438 | 475 | 636 | 2,758 | 42 | 19 | 13 | 1,179 | 540 | 156 | 67 | 6 | 1 |
| Manganese | 52 | 7 | 18 | 19 | 44 | 6 | 0 | 0 | 19 | 12 | 14 | 1 | 0 | 0 |
| Mercury | 1,843 | 705 | 403 | 444 | 1,647 | 158 | 8 | 16 | 407 | 515 | 116 | 28 | 8 | 2 |
| Metal fume fever | 955 | 20 | 47 | 721 | 945 | 5 | 1 | 3 | 324 | 10 | 382 | 134 | 4 | 0 |
| Selenium | 65 | 25 | 7 | 22 | 56 | 4 | 0 | 4 | 7 | 18 | 5 | 3 | 0 | 0 |
| Thallium | 39 | 17 | 0 | 17 | 31 | 3 | 1 | 2 | 19 | 6 | 2 | 1 | 2 | 1 |
| Other | 746 | 280 | 102 | 264 | 691 | 22 | 2 | 30 | 282 | 132 | 142 | 47 | 1 | 0 |
| Unknown | 37 | 7 | 9 | 12 | 33 | 0 | 2 | 1 | 20 | 7 | 3 | 0 | 0 | 0 |
| *Category total | 8,797 | 3,119 | 1,471 | 2,937 | 8,198 | 303 | 93 | 85 | 3,022 | 1,623 | 1,270 | 371 | 35 | 5 |
| Herbicides | | | | | | | | | | | | | | |
| Carbamate herbicide | 67 | 4 | 6 | 45 | 65 | 2 | 0 | 0 | 30 | 14 | 20 | 10 | 0 | 0 |
| 2,4-D or 2,4,5-T | 1,743 | 509 | 179 | 736 | 1,695 | 24 | 2 | 20 | 486 | 386 | 448 | 90 | 5 | 0 |
| Diquat | 80 | 17 | 14 | 35 | 77 | 1 | 0 | 1 | 34 | 18 | 16 | 6 | 0 | 0 |
| Paraquat | 104 | 6 | 10 | 67 | 89 | 12 | 1 | 0 | 74 | 9 | 21 | 13 | 5 | 0 |
| Paraquat/diquat | 4 | 2 | 0 | 2 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| Triazine herbicide | 402 | 68 | 40 | 192 | 391 | 6 | 0 | 5 | 205 | 48 | 143 | 25 | 1 | 0 |
| Urea herbicide | 57 | 6 | 8 | 29 | 56 | 1 | 0 | 0 | 26 | 7 | 11 | 6 | 0 | 0 |
| Other | 4,339 | 1,144 | 477 | 2,174 | 4,093 | 75 | 9 | 155 | 1,143 | 1,007 | 1,115 | 112 | 5 | 0 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|------------------|----------|-------|--------|--------|-------|-------|---------|---------------------------------|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Unknown | 263 | 82 | 46 | 87 | 252 | 5 | 1 | 4 | 64 | 42 | 74 | 13 | 0 | 0 |
| *Category total | 7,059 | 1,838 | 780 | 3,367 | 6,721 | 126 | 13 | 186 | 2,063 | 1,532 | 1,848 | 275 | 16 | 0 |
| Hydrocarbons | | | | | | | | | | | | | | |
| Benzene | 110 | 20 | 7 | 46 | 106 | 2 | 0 | 2 | 67 | 11 | 25 | 8 | 0 | 0 |
| Carbon tetrachloride | 80 | 4 | 5 | 51 | 79 | 0 | 0 | 1 | 34 | 6 | 43 | 5 | 1 | 0 |
| Diesel fuel | 1,236 | 274 | 128 | 617 | 1,202 | 22 | 7 | 1 | 309 | 198 | 492 | 54 | 5 | 0 |
| Freon and other propellants | 6,015 | 784 | 702 | 2,925 | 5,756 | 224 | 11 | 13 | 1,366 | 1,158 | 1,521 | 286 | 16 | 4 |
| Gasoline | 19,200 | 6,439 | 3,865 | 6,632 | 17,937 | 1,182 | 42 | 7 | 3,362 | 4,002 | 8,124 | 546 | 20 | 2 |
| Halogenated | | | | | | | | | | | | | | |
| hydrocarbon: other | 1,262 | 213 | 214 | 578 | 1,160 | 72 | 8 | 17 | 599 | 133 | 527 | 123 | 3 | 4 |
| Kerosene | 3,247 | 2,152 | 274 | 596 | 3,152 | 70 | 17 | 5 | 1,133 | 939 | 1,076 | 189 | 17 | 0 |
| Lighter fluid/naphtha | 3,903 | 2,390 | 360 | 822 | 3,683 | 161 | 33 | 12 | 1,233 | 1,247 | 1,172 | 206 | 10 | 2 |
| Lubricating oil/motor oil | 3,791 | 2,738 | 296 | 521 | 3,715 | 52 | 20 | 2 | 511 | 1,542 | 641 | 65 | 1 | 1 |
| Mineral seal oil | 276 | 240 | 12 | 17 | 271 | 5 | 0 | 0 | 46 | 148 | 35 | 6 | 0 | 0 |
| Mineral spirits/varsol | 5,089 | 2,646 | 633 | 1,263 | 4,866 | 180 | 20 | 10 | 1,155 | 1,416 | 1,572 | 170 | 14 | 0 |
| Toluene/xylene | 1,674 | 279 | 180 | 869 | 1,491 | 157 | 11 | 7 | 882 | 237 | 617 | 192 | 28 | 2 |
| Turpentine | 1,296 | 563 | 212 | 390 | 1,142 | 132 | 12 | 3 | 374 | 351 | 387 | 39 | 3 | 0 |
| Other | 5,574 | 2,918 | 661 | 1,425 | 5,310 | 200 | 28 | 24 | 1,525 | 1,622 | 1,374 | 326 | 19 | 6 |
| Unknown | 5,883 | 3,713 | 470 | 1,155 | 5,710 | 121 | 29 | 15 | 1,676 | 1,883 | 1,520 | 329 | 20 | 1 |
| *Category total | 58,636 | 25,373 | 8,019 | 17,907 | 55,580 | 2,580 | 238 | 119 | 14,272 | 14,893 | 19,126 | 2,544 | 157 | 22 |
| Insecticides/pesticides (excluding rodenticides) | | | | | | | | | | | | | | |
| Arsenic pesticides | 431 | 332 | 32 | 52 | 411 | 16 | 2 | 1 | 149 | 224 | 35 | 3 | 2 | 0 |
| Borates/boric acid | 2,733 | 2,231 | 134 | 286 | 2,668 | 54 | 3 | 5 | 325 | 954 | 161 | 7 | 1 | 1 |
| Carbamate only | 5,014 | 2,490 | 461 | 1,545 | 4,785 | 169 | 25 | 23 | 1,140 | 1,175 | 910 | 151 | 13 | 1 |
| Carbamate with other pesticide | 806 | 303 | 94 | 300 | 775 | 17 | 3 | 9 | 193 | 177 | 240 | 30 | 1 | 0 |
| Chlorinated hydrocarbon only | 2,645 | 1,240 | 381 | 766 | 2,430 | 102 | 17 | 89 | 986 | 911 | 499 | 99 | 18 | 2 |
| Chlorinated hydrocarbon with other pesticide | 155 | 48 | 14 | 60 | 151 | 4 | 0 | 0 | 39 | 21 | 44 | 6 | 0 | 0 |
| Metaldehyde | 199 | 157 | 5 | 30 | 197 | 0 | 0 | 2 | 40 | 111 | 13 | 3 | 0 | 0 |
| Nicotine | 5 | 0 | 1 | 3 | 3 | 1 | 1 | 0 | 2 | 0 | 3 | 0 | 1 | 0 |
| Organophosphate | | | | | | | | | | | | | | |
| Only | 11,056 | 3,952 | 919 | 4,648 | 10,628 | 261 | 38 | 91 | 3,423 | 2,740 | 2,511 | 523 | 57 | 3 |
| With carbamate | 1,172 | 475 | 104 | 410 | 1,107 | 37 | 13 | 12 | 232 | 286 | 263 | 36 | 1 | 0 |
| With chlorinated hydrocarbon | 201 | 68 | 21 | 81 | 192 | 4 | 1 | 1 | 58 | 41 | 54 | 5 | 1 | 0 |
| With other pesticide | 1,209 | 454 | 119 | 494 | 1,154 | 39 | 1 | 9 | 317 | 292 | 326 | 46 | 0 | 0 |
| With carbamate & chlorinated hydrocarbon | 55 | 12 | 9 | 25 | 48 | 3 | 2 | 1 | 18 | 10 | 15 | 5 | 0 | 0 |
| Piperonyl butoxide only | 97 | 37 | 6 | 33 | 94 | 1 | 2 | 0 | 28 | 16 | 29 | 3 | 1 | 0 |
| Piperonyl butoxide/pyrethrin | | | | | | | | | | | | | | |
| Pyrethrins only | 4,083 | 1,500 | 528 | 1,541 | 3,843 | 108 | 30 | 92 | 1,023 | 692 | 1,144 | 197 | 9 | 0 |
| Repellants (insect) | 4,404 | 1,603 | 482 | 1,703 | 4,137 | 133 | 8 | 111 | 1,285 | 847 | 1,172 | 199 | 8 | 0 |
| Rotenone | 4,751 | 3,317 | 784 | 418 | 4,589 | 48 | 28 | 80 | 567 | 1,273 | 1,296 | 70 | 2 | 0 |
| Veterinary insecticide | 114 | 26 | 20 | 47 | 111 | 1 | 0 | 1 | 26 | 23 | 36 | 6 | 0 | 0 |
| Other | 3,986 | 2,351 | 342 | 1,000 | 3,893 | 45 | 0 | 43 | 632 | 1,194 | 831 | 117 | 3 | 1 |
| Unknown | 3,095 | 1,991 | 208 | 592 | 3,005 | 64 | 5 | 15 | 480 | 756 | 380 | 55 | 5 | 0 |
| *Category total | 3,167 | 1,029 | 367 | 1,250 | 2,994 | 88 | 50 | 26 | 990 | 552 | 694 | 127 | 9 | 0 |
| Lacrimators | | | | | | | | | | | | | | |
| Capsicum/peppers | 944 | 324 | 311 | 225 | 845 | 24 | 63 | 6 | 144 | 37 | 629 | 23 | 1 | 0 |
| Lacrimators: CN | 9,570 | 2,666 | 3,539 | 2,045 | 8,297 | 266 | 826 | 19 | 1,426 | 359 | 5,634 | 277 | 9 | 0 |
| Lacrimators: CR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lacrimators: CS | 620 | 230 | 230 | 85 | 558 | 10 | 43 | 4 | 147 | 36 | 388 | 20 | 0 | 0 |
| Lacrimators: DM | 3 | 0 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Other | 76 | 14 | 19 | 19 | 75 | 1 | 0 | 0 | 25 | 4 | 38 | 4 | 0 | 0 |
| Unknown | 1,807 | 430 | 663 | 418 | 1,450 | 54 | 272 | 6 | 337 | 58 | 1,055 | 55 | 0 | 0 |
| *Category total | 13,020 | 3,664 | 4,764 | 2,793 | 11,227 | 355 | 1,205 | 35 | 2,079 | 494 | 7,745 | 379 | 10 | 0 |
| Matches/fireworks/explosives | | | | | | | | | | | | | | |
| Explosives | 322 | 177 | 83 | 47 | 304 | 7 | 6 | 3 | 98 | 106 | 59 | 13 | 1 | 0 |
| Fireworks | 485 | 387 | 69 | 19 | 475 | 7 | 3 | 0 | 51 | 147 | 57 | 11 | 1 | 0 |
| Matches | 1,668 | 1,544 | 61 | 41 | 1,644 | 18 | 3 | 0 | 72 | 522 | 29 | 1 | 0 | 0 |
| Other | 65 | 32 | 14 | 11 | 59 | 4 | 1 | 0 | 17 | 18 | 22 | 4 | 0 | 0 |
| Unknown | 5 | 3 | 1 | 0 | 5 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 |
| *Category total | 2,545 | 2,143 | 228 | 118 | 2,487 | 36 | 13 | 3 | 239 | 796 | 168 | 29 | 2 | 0 |
| Moth repellants | | | | | | | | | | | | | | |
| Naphthalene | 1,777 | 1,468 | 103 | 137 | 1,755 | 14 | 3 | 2 | 395 | 858 | 113 | 13 | 2 | 0 |
| Paradichlorobenzene | 211 | 171 | 14 | 17 | 206 | 3 | 0 | 1 | 19 | 101 | 9 | 2 | 0 | 0 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|--------------------------------------|------------------|----------|--------|-------|--------|-------|-------|---------|---------------------------------|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Other | 8 | 5 | 2 | 1 | 8 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 |
| Unknown | 3,121 | 2,549 | 184 | 254 | 3,058 | 44 | 8 | 5 | 684 | 1,365 | 219 | 21 | 1 | 0 |
| *Category total | 5,117 | 4,193 | 303 | 409 | 5,027 | 61 | 11 | 8 | 1,098 | 2,327 | 342 | 36 | 3 | 0 |
| Mushrooms | | | | | | | | | | | | | | |
| Coprine | 15 | 12 | 0 | 3 | 15 | 0 | 0 | 0 | 1 | 8 | 3 | 1 | 0 | 0 |
| Cyclopeptide | 44 | 6 | 11 | 23 | 35 | 6 | 0 | 3 | 27 | 10 | 13 | 8 | 1 | 0 |
| Gastrointestinal irritants | 208 | 127 | 27 | 45 | 184 | 22 | 0 | 1 | 75 | 86 | 48 | 16 | 0 | 0 |
| Hallucinogenic | 334 | 77 | 110 | 108 | 125 | 203 | 3 | 2 | 182 | 73 | 56 | 92 | 4 | 0 |
| Ibotenic acid | 14 | 4 | 1 | 7 | 11 | 3 | 0 | 0 | 9 | 1 | 4 | 5 | 3 | 0 |
| Miscellaneous, nontoxic | 170 | 82 | 19 | 58 | 149 | 7 | 0 | 13 | 40 | 62 | 24 | 7 | 0 | 0 |
| Monomethylhydrazine | 75 | 4 | 9 | 47 | 72 | 3 | 0 | 0 | 28 | 12 | 28 | 17 | 0 | 0 |
| Muscarine | 11 | 2 | 1 | 8 | 9 | 2 | 0 | 0 | 7 | 1 | 2 | 3 | 1 | 0 |
| Orellanine | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other potentially toxic | 59 | 35 | 8 | 11 | 57 | 0 | 0 | 1 | 23 | 32 | 12 | 1 | 1 | 0 |
| Unknown | 7,045 | 5,575 | 733 | 582 | 6,649 | 317 | 15 | 56 | 1,706 | 4,340 | 582 | 162 | 7 | 1 |
| *Category total | 7,976 | 5,924 | 919 | 893 | 7,307 | 563 | 18 | 76 | 2,098 | 4,625 | 772 | 312 | 17 | 1 |
| Paints and stripping agents | | | | | | | | | | | | | | |
| Paint: antialgae | 15 | 0 | 3 | 8 | 15 | 0 | 0 | 0 | 5 | 1 | 4 | 0 | 2 | 0 |
| Paint: anticorrosion | 73 | 20 | 13 | 28 | 72 | 1 | 0 | 0 | 23 | 11 | 24 | 2 | 0 | 0 |
| Paint: oil-base | 2,914 | 1,001 | 546 | 1,010 | 2,762 | 133 | 5 | 9 | 701 | 553 | 910 | 145 | 8 | 1 |
| Paint: water-base | 3,174 | 2,468 | 190 | 367 | 3,123 | 26 | 8 | 14 | 248 | 751 | 287 | 40 | 0 | 0 |
| Stains | 1,103 | 455 | 129 | 349 | 1,070 | 22 | 4 | 5 | 223 | 248 | 319 | 45 | 0 | 0 |
| Stripping agents | | | | | | | | | | | | | | |
| Methylene chloride | 1,206 | 216 | 111 | 634 | 1,155 | 42 | 3 | 2 | 459 | 123 | 536 | 136 | 9 | 0 |
| Other | 479 | 113 | 35 | 252 | 464 | 9 | 2 | 3 | 193 | 51 | 189 | 56 | 3 | 0 |
| Unknown | 489 | 146 | 39 | 221 | 475 | 11 | 1 | 2 | 152 | 87 | 177 | 37 | 1 | 0 |
| Varnishes, lacquers | 821 | 306 | 86 | 281 | 803 | 12 | 3 | 2 | 196 | 134 | 207 | 44 | 0 | 0 |
| Wood preservatives | 411 | 99 | 44 | 200 | 406 | 2 | 0 | 3 | 96 | 50 | 117 | 15 | 0 | 0 |
| Other paint/varnish/lacquer | 1,227 | 595 | 164 | 328 | 1,184 | 33 | 4 | 5 | 279 | 224 | 329 | 51 | 1 | 0 |
| Unknown paint/varnish/lacquer | 10,751 | 6,418 | 984 | 2,121 | 10,386 | 280 | 18 | 53 | 1,839 | 2,010 | 1,624 | 268 | 10 | 1 |
| *Category total | 22,663 | 11,837 | 2,344 | 5,799 | 21,915 | 571 | 48 | 98 | 4,414 | 4,243 | 4,723 | 839 | 34 | 2 |
| Photographic products | | | | | | | | | | | | | | |
| Developers/fixing/stop baths | 373 | 51 | 104 | 145 | 358 | 7 | 3 | 5 | 137 | 49 | 138 | 25 | 1 | 0 |
| Photographic coating fluids | 9 | 4 | 2 | 3 | 9 | 0 | 0 | 0 | 3 | 3 | 4 | 0 | 0 | 0 |
| Other | 319 | 213 | 29 | 49 | 313 | 5 | 0 | 1 | 46 | 60 | 46 | 6 | 0 | 0 |
| Unknown | 17 | 4 | 1 | 5 | 17 | 0 | 0 | 0 | 5 | 4 | 4 | 0 | 0 | 0 |
| *Category total | 718 | 272 | 136 | 202 | 697 | 12 | 3 | 6 | 191 | 116 | 192 | 31 | 1 | 0 |
| Plants | | | | | | | | | | | | | | |
| Amygdalin/cyanogenic glycosides | 3,174 | 2,378 | 493 | 198 | 3,100 | 43 | 0 | 30 | 163 | 884 | 138 | 15 | 1 | 0 |
| Anticholinergic | 959 | 267 | 447 | 171 | 533 | 340 | 71 | 6 | 498 | 164 | 189 | 201 | 15 | 0 |
| Cardiac glycosides | 2,388 | 1,771 | 328 | 174 | 2,302 | 74 | 2 | 7 | 469 | 1,069 | 202 | 19 | 1 | 0 |
| Colchicine | 26 | 16 | 2 | 8 | 26 | 0 | 0 | 0 | 4 | 20 | 3 | 0 | 0 | 0 |
| Depressants | 50 | 37 | 1 | 10 | 41 | 7 | 0 | 2 | 12 | 13 | 10 | 0 | 0 | 0 |
| Dermatitis | 16,287 | 8,800 | 2,301 | 3,302 | 15,603 | 192 | 88 | 371 | 1,339 | 2,380 | 3,983 | 431 | 6 | 0 |
| Gastrointestinal irritants | 17,689 | 14,524 | 1,483 | 1,261 | 17,236 | 307 | 15 | 112 | 1,183 | 5,944 | 1,378 | 121 | 8 | 0 |
| Hallucinogenic | 261 | 148 | 59 | 37 | 189 | 64 | 0 | 7 | 65 | 88 | 27 | 22 | 0 | 0 |
| Nicotine | 371 | 86 | 97 | 156 | 350 | 9 | 2 | 5 | 176 | 65 | 164 | 58 | 1 | 0 |
| Nontoxic plant | 19,053 | 16,369 | 1,501 | 757 | 18,734 | 150 | 13 | 144 | 525 | 3,002 | 695 | 71 | 3 | 0 |
| Oxalate | 14,243 | 12,643 | 969 | 449 | 14,055 | 144 | 9 | 24 | 572 | 5,544 | 2,033 | 79 | 0 | 0 |
| Solanine | 1,853 | 1,542 | 117 | 138 | 1,813 | 20 | 2 | 17 | 279 | 946 | 172 | 12 | 0 | 0 |
| Stimulants | 362 | 247 | 45 | 55 | 314 | 29 | 0 | 18 | 97 | 165 | 56 | 9 | 2 | 0 |
| Toxalbumins | 237 | 137 | 49 | 39 | 226 | 11 | 0 | 0 | 91 | 109 | 37 | 5 | 0 | 0 |
| Other | 2,374 | 1,710 | 344 | 227 | 2,222 | 68 | 1 | 79 | 279 | 692 | 248 | 33 | 5 | 1 |
| Unknown | 15,398 | 12,098 | 1,817 | 942 | 14,962 | 240 | 10 | 168 | 1,426 | 5,185 | 1,525 | 176 | 3 | 0 |
| *Category total | 94,725 | 72,773 | 10,053 | 7,924 | 91,706 | 1,698 | 213 | 990 | 7,178 | 26,270 | 10,860 | 1,252 | 45 | 1 |
| Polishes and waxes | 6,993 | 5,639 | 407 | 678 | 6,844 | 115 | 19 | 8 | 824 | 2,820 | 1,272 | 93 | 6 | 1 |
| Radioisotopes | 166 | 11 | 20 | 85 | 154 | 0 | 4 | 5 | 55 | 19 | 14 | 7 | 0 | 0 |
| Rodenticides | | | | | | | | | | | | | | |
| ANTU | 6 | 5 | 0 | 1 | 5 | 1 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 |
| Anticoagulant: standard | 1,427 | 1,260 | 49 | 86 | 1,368 | 47 | 9 | 0 | 497 | 526 | 33 | 6 | 0 | 0 |
| Anticoagulant: long-acting | 10,692 | 9,947 | 323 | 542 | 10,587 | 327 | 29 | 4 | 4,230 | 4,637 | 219 | 51 | 14 | 1 |
| Barium carbonate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cyanide | 3 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Monofluoroacetate | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Strychnine | 151 | 38 | 14 | 67 | 85 | 41 | 12 | 2 | 101 | 36 | 16 | 13 | 6 | 0 |
| Vacor | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

(Continued on following page)

TABLE 22A. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Nonpharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|--|------------------|----------|---------|---------|-----------|--------|-------|---------|---------------------------------|---------|---------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Other | 950 | 670 | 59 | 178 | 869 | 71 | 6 | 2 | 468 | 307 | 59 | 19 | 5 | 1 |
| Unknown | 1,419 | 1,118 | 72 | 163 | 1,254 | 125 | 28 | 2 | 698 | 549 | 52 | 19 | 4 | 0 |
| *Category total | 14,920 | 13,038 | 517 | 1,041 | 14,171 | 613 | 85 | 10 | 6,001 | 6,058 | 379 | 108 | 29 | 2 |
| Sporting equipment | | | | | | | | | | | | | | |
| Fishing bait | 136 | 96 | 21 | 15 | 135 | 1 | 0 | 0 | 24 | 41 | 13 | 5 | 0 | 0 |
| Fishing products, other | 21 | 14 | 4 | 1 | 20 | 0 | 1 | 0 | 3 | 13 | 4 | 0 | 0 | 0 |
| Golf balls | 71 | 6 | 49 | 11 | 63 | 8 | 0 | 0 | 18 | 9 | 29 | 9 | 0 | 0 |
| Golf products, other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gun bluing | 55 | 26 | 2 | 21 | 53 | 0 | 1 | 1 | 28 | 19 | 16 | 2 | 1 | 0 |
| Hunting products, other | 405 | 247 | 80 | 59 | 365 | 23 | 10 | 2 | 117 | 151 | 34 | 5 | 0 | 0 |
| Other | 77 | 39 | 29 | 7 | 70 | 6 | 1 | 0 | 6 | 20 | 2 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Category total | 765 | 428 | 185 | 114 | 706 | 38 | 13 | 3 | 196 | 253 | 98 | 21 | 1 | 0 |
| Swimming pool/aquarium | 5,675 | 3,110 | 840 | 1,205 | 5,578 | 57 | 11 | 24 | 946 | 1,287 | 1,582 | 289 | 9 | 0 |
| Tobacco products | 8,778 | 7,633 | 415 | 539 | 8,325 | 226 | 39 | 173 | 1,823 | 3,290 | 2,184 | 148 | 3 | 0 |
| Other/unknown nondrug substance | 8,337 | 3,624 | 1,253 | 2,253 | 7,651 | 166 | 303 | 114 | 1,729 | 1,699 | 1,493 | 254 | 20 | 0 |
| Total number of nonpharmaceutical substances | 1,075,934 | 588,752 | 128,714 | 252,211 | 1,009,381 | 44,509 | 6,746 | 12,998 | 205,694 | 233,369 | 243,453 | 38,174 | 2,548 | 210 |
| % of nonpharmaceutical substances | | 54.7 | 12.0 | 23.4 | 93.8 | 4.1 | 0.6 | 1.2 | 19.1 | 21.7 | 22.6 | 3.5 | 0.2 | 0.0 |
| % of all substances | 57.6 | 31.5 | 6.9 | 13.5 | 54.0 | 2.4 | 0.4 | 0.7 | 11.0 | 12.5 | 13.0 | 2.0 | 0.1 | 0.0 |

NOTE: Patients with unknown age, reason, or medical outcome were omitted from the respective tabulations.

ABBREVIATIONS: Adv Rxn, adverse reaction; Int, intentional; Unint, unintentional.

TABLE 22B. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Pharmaceuticals

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|--------------------------------------|------------------|----------|-------|-------|--------|--------|-------|---------|---------------------------------|---------|-------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Analgesics | | | | | | | | | | | | | | |
| Acetaminophen only | | | | | | | | | | | | | | |
| Adult formulations | 24,307 | 6,774 | 8,922 | 7,249 | 11,047 | 12,940 | 43 | 191 | 14,704 | 7,861 | 3,531 | 1,107 | 250 | 35 |
| Pediatric formulations | 35,788 | 33,250 | 2,090 | 326 | 35,281 | 325 | 71 | 91 | 4,287 | 9,699 | 723 | 49 | 10 | 0 |
| Unknown formulations | 8,232 | 2,838 | 2,558 | 2,292 | 3,764 | 4,306 | 21 | 76 | 4,993 | 2,377 | 1,123 | 454 | 161 | 24 |
| Acetaminophen in combination with | | | | | | | | | | | | | | |
| Aspirin (with other ingredients) | | | | | | | | | | | | | | |
| Aspirin (with other ingredients) | 1,737 | 657 | 474 | 498 | 910 | 735 | 9 | 75 | 811 | 519 | 348 | 73 | 4 | 0 |
| Aspirin (no other ingredients) | | | | | | | | | | | | | | |
| Aspirin (no other ingredients) | 40 | 13 | 17 | 8 | 19 | 21 | 0 | 0 | 25 | 13 | 11 | 3 | 0 | 0 |
| Codeine | 6,436 | 1,262 | 1,236 | 3,253 | 2,482 | 3,392 | 12 | 521 | 3,742 | 1,530 | 1,711 | 425 | 84 | 3 |
| Oxycodone | 2,393 | 351 | 296 | 1,403 | 927 | 1,246 | 7 | 190 | 1,368 | 466 | 624 | 153 | 49 | 4 |
| Propoxyphene | 4,134 | 588 | 587 | 2,517 | 1,358 | 2,565 | 11 | 163 | 2,833 | 958 | 1,151 | 348 | 98 | 18 |
| Other narcotics | 5,190 | 608 | 798 | 3,113 | 1,704 | 2,924 | 12 | 510 | 3,053 | 953 | 1,460 | 363 | 68 | 4 |
| Other drugs, adult formulations | | | | | | | | | | | | | | |
| Other drugs, adult formulations | 5,770 | 1,157 | 1,389 | 2,740 | 2,071 | 3,505 | 10 | 146 | 3,738 | 1,467 | 1,496 | 502 | 79 | 4 |
| Other drugs, pediatric formulations | | | | | | | | | | | | | | |
| Other drugs, pediatric formulations | 260 | 42 | 46 | 143 | 113 | 128 | 0 | 18 | 135 | 69 | 67 | 12 | 5 | 0 |
| Aspirin only | | | | | | | | | | | | | | |
| Adult formulations | 4,775 | 1,720 | 1,495 | 1,273 | 2,371 | 2,285 | 5 | 97 | 2,573 | 1,513 | 818 | 354 | 25 | 10 |
| Pediatric formulations | 445 | 395 | 44 | 5 | 426 | 16 | 1 | 1 | 96 | 190 | 24 | 6 | 1 | 0 |
| Unknown formulations | 10,337 | 2,192 | 3,861 | 3,523 | 3,410 | 6,692 | 15 | 161 | 7,078 | 2,575 | 2,277 | 1,099 | 126 | 24 |
| Aspirin in combination with | | | | | | | | | | | | | | |
| Codeine | | | | | | | | | | | | | | |
| Codeine | 812 | 127 | 110 | 481 | 259 | 506 | 0 | 43 | 532 | 143 | 248 | 78 | 14 | 0 |
| Oxycodone | | | | | | | | | | | | | | |
| Oxycodone | 376 | 56 | 41 | 230 | 120 | 222 | 0 | 33 | 230 | 66 | 93 | 29 | 7 | 0 |
| Propoxyphene | | | | | | | | | | | | | | |
| Propoxyphene | 62 | 16 | 8 | 32 | 26 | 31 | 0 | 5 | 40 | 18 | 14 | 8 | 1 | 0 |
| Other narcotics/analogs | | | | | | | | | | | | | | |
| Other narcotics/analogs | 172 | 22 | 25 | 106 | 53 | 106 | 0 | 13 | 108 | 27 | 56 | 17 | 1 | 1 |
| Other drugs (adult formulations) | | | | | | | | | | | | | | |
| Other drugs (adult formulations) | 2,931 | 587 | 617 | 1,442 | 1,061 | 1,742 | 4 | 105 | 1,909 | 742 | 811 | 244 | 52 | 1 |
| Other drugs (pediatric formulations) | | | | | | | | | | | | | | |
| Other drugs (pediatric formulations) | 5 | 2 | 2 | 1 | 3 | 2 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 0 |

(Continued on following page)

TABLE 22B. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Pharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|------------------|----------|--------|--------|--------|--------|-------|---------|---------------------------------|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Narcotics | | | | | | | | | | | | | | |
| Codeine | 1,563 | 731 | 304 | 389 | 1,067 | 362 | 4 | 121 | 548 | 457 | 256 | 49 | 6 | 6 |
| Meperidine | 517 | 69 | 65 | 301 | 179 | 275 | 4 | 57 | 316 | 72 | 132 | 54 | 16 | 2 |
| Methadone | 397 | 55 | 29 | 256 | 133 | 222 | 8 | 20 | 301 | 39 | 77 | 76 | 44 | 3 |
| Morphine | 505 | 79 | 58 | 305 | 235 | 226 | 3 | 33 | 303 | 73 | 92 | 63 | 30 | 3 |
| Oxycodone | 138 | 15 | 21 | 67 | 46 | 73 | 0 | 18 | 87 | 19 | 32 | 14 | 4 | 0 |
| Pentazocine | 282 | 36 | 22 | 177 | 94 | 140 | 3 | 42 | 167 | 40 | 92 | 37 | 5 | 0 |
| Propoxyphene | 716 | 80 | 94 | 450 | 210 | 460 | 1 | 36 | 495 | 147 | 193 | 77 | 22 | 11 |
| Other/unknown | 1,654 | 311 | 192 | 908 | 734 | 656 | 3 | 237 | 901 | 245 | 474 | 166 | 69 | 10 |
| Nonaspirin salicylates | 990 | 478 | 143 | 290 | 632 | 309 | 5 | 40 | 428 | 330 | 187 | 52 | 5 | 0 |
| Other nonsteroidal anti-inflammatory drugs | | | | | | | | | | | | | | |
| Colchicine | 107 | 35 | 13 | 46 | 60 | 36 | 1 | 9 | 65 | 35 | 8 | 12 | 3 | 3 |
| Ibuprofen, OTC | 19,139 | 12,224 | 3,537 | 2,735 | 14,085 | 4,727 | 19 | 282 | 5,567 | 6,820 | 1,754 | 266 | 16 | 0 |
| Ibuprofen, R _x | 5,177 | 1,401 | 1,235 | 2,120 | 2,307 | 2,710 | 15 | 128 | 2,719 | 1,540 | 855 | 171 | 17 | 2 |
| Ibuprofen, unknown if OTC or R _x | 8,697 | 3,038 | 2,570 | 2,434 | 4,228 | 4,208 | 8 | 224 | 4,263 | 2,803 | 1,375 | 285 | 41 | 1 |
| Indomethacin | 752 | 226 | 114 | 323 | 368 | 307 | 1 | 75 | 385 | 233 | 137 | 31 | 3 | 1 |
| Other | 12,010 | 4,503 | 2,030 | 4,400 | 6,584 | 4,639 | 20 | 710 | 5,357 | 3,980 | 1,969 | 423 | 54 | 2 |
| Unknown | 10 | 2 | 1 | 4 | 5 | 4 | 0 | 1 | 4 | 2 | 1 | 0 | 0 | 0 |
| Phenacetin | 4 | 3 | 0 | 1 | 3 | 1 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 |
| Phenazopyridine | 562 | 433 | 49 | 65 | 488 | 45 | 0 | 29 | 155 | 234 | 81 | 4 | 4 | 0 |
| Salicylamide | 88 | 62 | 9 | 15 | 68 | 18 | 0 | 2 | 22 | 40 | 15 | 1 | 0 | 0 |
| Other analgesic | 69 | 25 | 11 | 21 | 40 | 23 | 0 | 4 | 34 | 18 | 9 | 2 | 3 | 0 |
| Unknown analgesic | 183 | 29 | 67 | 66 | 44 | 131 | 0 | 8 | 123 | 38 | 35 | 7 | 1 | 0 |
| *Category total | 167,762 | 76,492 | 35,180 | 46,008 | 99,015 | 63,261 | 316 | 4,515 | 74,500 | 48,354 | 24,362 | 7,115 | 1,378 | 172 |
| Anesthetics | | | | | | | | | | | | | | |
| Inhalation anesthetics | | | | | | | | | | | | | | |
| Nitrous oxide | 141 | 4 | 61 | 57 | 52 | 72 | 0 | 17 | 69 | 13 | 34 | 17 | 2 | 3 |
| Other/unknown | 156 | 19 | 25 | 80 | 137 | 14 | 1 | 0 | 68 | 16 | 67 | 8 | 0 | 0 |
| Ketamine and analogs | 24 | 2 | 1 | 15 | 9 | 13 | 0 | 1 | 14 | 2 | 5 | 6 | 1 | 0 |
| Local and topical anesthetics | | | | | | | | | | | | | | |
| Other anesthetics | 4,447 | 3,334 | 341 | 577 | 4,136 | 120 | 14 | 162 | 896 | 1,905 | 550 | 77 | 21 | 1 |
| Unknown anesthetic | 8 | 2 | 1 | 4 | 7 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 |
| Unknown anesthetic | 7 | 2 | 0 | 3 | 4 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 0 |
| *Category total | 4,783 | 3,363 | 429 | 736 | 4,345 | 220 | 15 | 183 | 1,050 | 1,940 | 661 | 110 | 24 | 4 |
| Anticholinergic drugs | | | | | | | | | | | | | | |
| Atropine | 3,747 | 1,065 | 455 | 1,894 | 1,734 | 1,726 | 17 | 223 | 2,417 | 1,064 | 877 | 523 | 78 | 3 |
| Anticoagulants | | | | | | | | | | | | | | |
| Heparin | | | | | | | | | | | | | | |
| Heparin | 70 | 20 | 1 | 32 | 62 | 4 | 0 | 3 | 44 | 14 | 11 | 14 | 1 | 0 |
| Warfarin (excluding rodenticides) | | | | | | | | | | | | | | |
| Warfarin (excluding rodenticides) | 761 | 375 | 41 | 288 | 586 | 140 | 2 | 28 | 386 | 281 | 59 | 50 | 13 | 1 |
| Other | 67 | 29 | 3 | 32 | 50 | 7 | 2 | 8 | 25 | 31 | 5 | 1 | 0 | 0 |
| Unknown | 11 | 9 | 0 | 1 | 9 | 2 | 0 | 0 | 8 | 7 | 0 | 0 | 0 | 0 |
| *Category total | 909 | 433 | 45 | 353 | 707 | 153 | 4 | 39 | 463 | 333 | 75 | 65 | 14 | 1 |
| Anticonvulsants | | | | | | | | | | | | | | |
| Carbamazepine | | | | | | | | | | | | | | |
| Carbamazepine | 5,563 | 1,824 | 1,035 | 2,357 | 3,179 | 2,105 | 15 | 201 | 3,777 | 1,390 | 1,502 | 820 | 243 | 5 |
| Phenytoin | | | | | | | | | | | | | | |
| Phenytoin | 3,891 | 992 | 390 | 2,157 | 2,114 | 1,429 | 16 | 253 | 2,678 | 1,002 | 961 | 520 | 86 | 4 |
| Succinimides | | | | | | | | | | | | | | |
| Succinimides | 110 | 52 | 25 | 31 | 87 | 21 | 0 | 2 | 42 | 40 | 20 | 2 | 1 | 0 |
| Valproic acid | | | | | | | | | | | | | | |
| Valproic acid | 1,938 | 476 | 412 | 892 | 1,119 | 711 | 7 | 89 | 1,063 | 622 | 374 | 141 | 55 | 3 |
| Other | 186 | 38 | 12 | 110 | 140 | 21 | 1 | 24 | 73 | 35 | 46 | 15 | 4 | 0 |
| Unknown | 8 | 0 | 2 | 5 | 5 | 2 | 0 | 1 | 4 | 1 | 2 | 1 | 0 | 0 |
| *Category total | 11,696 | 3,382 | 1,876 | 5,552 | 6,644 | 4,289 | 39 | 570 | 7,637 | 3,090 | 2,905 | 1,499 | 389 | 12 |
| Antidepressants | | | | | | | | | | | | | | |
| Cyclic antidepressants | | | | | | | | | | | | | | |
| Amitriptyline | | | | | | | | | | | | | | |
| Amitriptyline | 6,710 | 973 | 780 | 4,266 | 1,889 | 4,587 | 10 | 146 | 5,500 | 1,109 | 1,694 | 1,318 | 762 | 44 |
| Amoxapine | | | | | | | | | | | | | | |
| Amoxapine | 190 | 32 | 23 | 122 | 55 | 125 | 1 | 9 | 167 | 34 | 46 | 40 | 17 | 6 |
| Desipramine | | | | | | | | | | | | | | |
| Desipramine | 1,456 | 231 | 360 | 706 | 490 | 881 | 3 | 64 | 1,159 | 336 | 351 | 238 | 110 | 26 |
| Doxepin | | | | | | | | | | | | | | |
| Doxepin | 2,911 | 199 | 291 | 2,081 | 595 | 2,220 | 6 | 60 | 2,442 | 416 | 784 | 592 | 320 | 11 |
| Imipramine | | | | | | | | | | | | | | |
| Imipramine | 3,394 | 659 | 988 | 1,465 | 1,325 | 1,879 | 6 | 156 | 2,457 | 861 | 833 | 496 | 219 | 13 |
| Maprotiline | | | | | | | | | | | | | | |
| Maprotiline | 97 | 14 | 10 | 62 | 34 | 59 | 0 | 3 | 76 | 22 | 29 | 14 | 9 | 0 |
| Nortriptyline | | | | | | | | | | | | | | |
| Nortriptyline | 2,617 | 241 | 442 | 1,670 | 672 | 1,806 | 6 | 98 | 2,043 | 488 | 674 | 438 | 185 | 15 |
| Protriptyline | | | | | | | | | | | | | | |
| Protriptyline | 48 | 8 | 4 | 30 | 14 | 30 | 0 | 3 | 36 | 10 | 12 | 7 | 1 | 0 |
| Other cyclic antidepressant | | | | | | | | | | | | | | |
| Other cyclic antidepressant | 1,286 | 83 | 156 | 881 | 296 | 904 | 1 | 76 | 1,014 | 234 | 366 | 223 | 71 | 4 |
| Unknown cyclic antidepressant | | | | | | | | | | | | | | |
| Unknown cyclic antidepressant | 378 | 17 | 55 | 260 | 47 | 312 | 0 | 6 | 345 | 39 | 69 | 90 | 102 | 5 |
| Cyclic antidepressant formulated with a benzodiazepine | | | | | | | | | | | | | | |
| Cyclic antidepressant formulated with a benzodiazepine | 197 | 32 | 21 | 128 | 55 | 136 | 0 | 5 | 161 | 35 | 52 | 37 | 16 | 0 |

(Continued on following page)

TABLE 22B. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Pharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|------------------|----------|-------|--------|--------|--------|-------|---------|---------------------------------|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Cyclic antidepressant formulated with a phenothiazine | 631 | 110 | 69 | 406 | 181 | 427 | 2 | 16 | 508 | 128 | 164 | 106 | 51 | 8 |
| Lithium | 4,560 | 348 | 803 | 2,778 | 1,417 | 2,722 | 14 | 314 | 3,632 | 1,087 | 1,177 | 710 | 184 | 3 |
| MAO inhibitors | 556 | 69 | 15 | 378 | 196 | 249 | 1 | 102 | 424 | 106 | 117 | 139 | 43 | 3 |
| Trazodone | 3,808 | 235 | 475 | 2,609 | 815 | 2,858 | 9 | 111 | 2,925 | 799 | 1,376 | 419 | 71 | 6 |
| Other antidepressants | 11,651 | 1,352 | 2,356 | 6,463 | 3,053 | 7,759 | 17 | 744 | 8,424 | 3,350 | 3,077 | 979 | 215 | 7 |
| Unknown antidepressants | 59 | 4 | 9 | 35 | 10 | 47 | 0 | 1 | 43 | 5 | 13 | 3 | 2 | 0 |
| *Category total | 40,549 | 4,607 | 6,857 | 24,340 | 11,144 | 27,001 | 76 | 1,914 | 31,356 | 9,059 | 10,834 | 5,849 | 2,378 | 151 |
| Antihistamines | | | | | | | | | | | | | | |
| H ₂ receptor antagonists | 3,283 | 1,385 | 468 | 1,131 | 2,105 | 998 | 6 | 166 | 1,320 | 1,151 | 401 | 97 | 18 | 0 |
| Diphenhydramine (unknown if OTC or R _x) | 10,457 | 6,609 | 1,354 | 2,088 | 7,797 | 2,372 | 36 | 216 | 3,841 | 3,529 | 2,251 | 658 | 53 | 6 |
| Diphenhydramine (R _x) | 209 | 84 | 37 | 72 | 123 | 74 | 1 | 7 | 120 | 51 | 58 | 18 | 4 | 0 |
| Diphenhydramine (OTC) | 6,924 | 1,533 | 1,456 | 3,349 | 2,594 | 4,123 | 17 | 164 | 4,231 | 1,448 | 1,928 | 786 | 74 | 4 |
| Other | 13,478 | 5,723 | 2,930 | 3,982 | 8,577 | 4,332 | 38 | 470 | 6,190 | 4,517 | 2,484 | 831 | 91 | 4 |
| *Category total | 34,351 | 15,334 | 6,245 | 10,622 | 21,196 | 11,899 | 98 | 1,023 | 15,702 | 10,696 | 7,122 | 2,390 | 240 | 14 |
| Antimicrobials | | | | | | | | | | | | | | |
| Antibiotics: systemic | 41,073 | 24,655 | 6,315 | 7,633 | 30,899 | 5,796 | 102 | 4,152 | 8,807 | 10,370 | 4,490 | 704 | 64 | 3 |
| Antibiotics: topical | 5,185 | 4,072 | 326 | 561 | 5,014 | 67 | 6 | 96 | 195 | 1,083 | 253 | 19 | 1 | 0 |
| Antibiotics: unknown | 2,098 | 638 | 592 | 662 | 1,058 | 657 | 11 | 361 | 799 | 418 | 483 | 62 | 4 | 0 |
| Antifungals: systemic | 745 | 416 | 105 | 151 | 598 | 83 | 3 | 61 | 151 | 216 | 68 | 9 | 2 | 0 |
| Antifungals: topical | 6,275 | 4,980 | 322 | 690 | 6,126 | 56 | 17 | 72 | 292 | 1,367 | 568 | 24 | 2 | 0 |
| Antifungals: unknown | 22 | 12 | 1 | 3 | 20 | 1 | 0 | 1 | 3 | 3 | 0 | 1 | 0 | 0 |
| Anthelmintics: | | | | | | | | | | | | | | |
| diethylcarbamazine | 947 | 677 | 31 | 200 | 938 | 6 | 2 | 0 | 42 | 264 | 25 | 3 | 0 | 0 |
| Anthelmintics: | | | | | | | | | | | | | | |
| piperazine | 561 | 460 | 30 | 53 | 550 | 7 | 2 | 1 | 56 | 199 | 28 | 3 | 0 | 0 |
| Anthelmintics: other | 599 | 285 | 68 | 160 | 563 | 10 | 2 | 23 | 192 | 151 | 127 | 36 | 6 | 0 |
| Anthelmintics: unknown | 23 | 15 | 1 | 5 | 19 | 3 | 1 | 0 | 5 | 11 | 2 | 0 | 0 | 0 |
| Antiparasitics: | | | | | | | | | | | | | | |
| antimalarials | 196 | 84 | 28 | 58 | 142 | 23 | 0 | 29 | 118 | 77 | 26 | 16 | 0 | 0 |
| Antiparasitics: | | | | | | | | | | | | | | |
| metronidazole | 962 | 243 | 161 | 421 | 508 | 277 | 4 | 169 | 380 | 205 | 182 | 31 | 0 | 0 |
| Antiparasitics: other | 335 | 212 | 41 | 56 | 278 | 24 | 0 | 33 | 73 | 103 | 31 | 5 | 1 | 0 |
| Antituberculars: | | | | | | | | | | | | | | |
| isoniazid | 453 | 94 | 133 | 182 | 166 | 260 | 0 | 24 | 341 | 126 | 59 | 65 | 59 | 2 |
| Antituberculars: | | | | | | | | | | | | | | |
| rifampin | 61 | 24 | 14 | 17 | 39 | 14 | 0 | 8 | 32 | 23 | 14 | 0 | 1 | 0 |
| Antituberculars: | | | | | | | | | | | | | | |
| other | 17 | 3 | 7 | 4 | 6 | 8 | 0 | 3 | 12 | 5 | 3 | 1 | 0 | 0 |
| Antituberculars: unknown | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Antivirals: systemic | 675 | 230 | 83 | 290 | 373 | 235 | 4 | 58 | 298 | 205 | 86 | 25 | 7 | 0 |
| Antivirals: topical | 52 | 28 | 4 | 13 | 45 | 3 | 0 | 4 | 9 | 6 | 9 | 4 | 0 | 0 |
| Antivirals: unknown | 45 | 14 | 7 | 20 | 27 | 14 | 0 | 4 | 17 | 12 | 3 | 2 | 0 | 0 |
| Other antimicrobials | 102 | 64 | 11 | 21 | 86 | 9 | 0 | 7 | 29 | 31 | 18 | 3 | 0 | 0 |
| Unknown antimicrobials | 8 | 4 | 1 | 2 | 4 | 3 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 |
| *Category total | 60,435 | 37,211 | 8,281 | 11,202 | 47,460 | 7,556 | 154 | 5,107 | 11,854 | 14,878 | 6,475 | 1,013 | 147 | 5 |
| Antineoplastics | 613 | 226 | 39 | 241 | 513 | 47 | 5 | 45 | 246 | 200 | 87 | 24 | 3 | 1 |
| Asthma therapies | | | | | | | | | | | | | | |
| Aminophylline/theophylline | 4,473 | 1,047 | 1,116 | 2,038 | 2,530 | 1,621 | 20 | 248 | 2,878 | 1,078 | 1,026 | 782 | 120 | 27 |
| Terbutaline and other beta-2 agonists | 10,666 | 8,366 | 1,295 | 812 | 9,580 | 738 | 47 | 275 | 4,395 | 4,097 | 2,231 | 800 | 12 | 0 |
| Other beta agonists | 996 | 287 | 391 | 253 | 421 | 540 | 4 | 25 | 640 | 258 | 269 | 137 | 5 | 0 |
| Other | 507 | 370 | 77 | 43 | 447 | 37 | 0 | 20 | 75 | 188 | 40 | 6 | 0 | 0 |
| Unknown | 27 | 7 | 11 | 6 | 12 | 13 | 2 | 0 | 10 | 8 | 6 | 4 | 0 | 0 |
| *Category total | 16,669 | 10,077 | 2,890 | 3,152 | 12,990 | 2,949 | 73 | 568 | 7,998 | 5,629 | 3,572 | 1,729 | 137 | 27 |
| Cardiovascular drugs | | | | | | | | | | | | | | |
| Alpha blockers | 168 | 64 | 14 | 73 | 122 | 40 | 0 | 5 | 100 | 64 | 22 | 21 | 2 | 0 |
| Antiarrhythmics | 1,095 | 265 | 62 | 654 | 904 | 134 | 7 | 45 | 489 | 456 | 108 | 51 | 26 | 9 |
| Antihypertensives | 6,548 | 3,092 | 737 | 2,352 | 5,054 | 1,254 | 17 | 188 | 3,305 | 2,723 | 927 | 557 | 113 | 2 |
| Beta blockers | 5,063 | 1,708 | 542 | 2,406 | 3,437 | 1,439 | 24 | 149 | 2,930 | 2,128 | 599 | 481 | 97 | 17 |
| Calcium antagonists | 6,730 | 1,897 | 510 | 3,774 | 4,835 | 1,653 | 33 | 182 | 3,802 | 2,684 | 801 | 668 | 182 | 35 |
| Cardiac glycosides | 2,285 | 977 | 127 | 1,059 | 1,848 | 316 | 6 | 87 | 1,285 | 935 | 199 | 273 | 73 | 10 |
| Hydralazine | 217 | 88 | 19 | 88 | 165 | 42 | 1 | 8 | 105 | 90 | 31 | 24 | 3 | 0 |
| Long-acting nitrates | 722 | 338 | 29 | 317 | 626 | 79 | 2 | 13 | 269 | 349 | 78 | 28 | 2 | 0 |

(Continued on following page)

TABLE 22B. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Pharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|---------------------|----------|--------|--------|--------|--------|-------|------------|---|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Nitroglycerin | 2,026 | 1,409 | 119 | 418 | 1,768 | 232 | 4 | 18 | 604 | 1,013 | 147 | 47 | 9 | 1 |
| Nitroprusside | 35 | 3 | 0 | 24 | 14 | 0 | 0 | 20 | 33 | 2 | 5 | 8 | 2 | 0 |
| Other vasodilators | 537 | 298 | 35 | 171 | 456 | 60 | 3 | 10 | 189 | 248 | 52 | 14 | 1 | 0 |
| Unknown types of vasodilators | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| Vasopressors | 12 | 3 | 5 | 4 | 9 | 2 | 0 | 1 | 10 | 3 | 5 | 1 | 0 | 0 |
| Other cardiovascular drugs | 523 | 147 | 127 | 203 | 451 | 43 | 2 | 24 | 145 | 143 | 89 | 29 | 2 | 0 |
| Unknown cardiovascular drugs | 43 | 20 | 6 | 13 | 33 | 9 | 1 | 0 | 15 | 16 | 1 | 0 | 0 | 0 |
| *Category total | 25,999 | 10,309 | 2,332 | 11,557 | 19,722 | 5,304 | 100 | 750 | 13,282 | 10,854 | 3,064 | 2,203 | 512 | 74 |
| Cough and cold preparations | 105,588 | 72,540 | 15,522 | 14,120 | 89,647 | 12,586 | 336 | 2,812 | 26,109 | 34,201 | 21,587 | 2,821 | 147 | 8 |
| Diagnostic agents | 316 | 100 | 32 | 120 | 270 | 18 | 0 | 28 | 132 | 71 | 62 | 19 | 0 | 1 |
| Diuretics | | | | | | | | | | | | | | |
| Furosemide | 1,205 | 640 | 109 | 398 | 1,001 | 175 | 7 | 18 | 433 | 436 | 191 | 61 | 4 | 1 |
| Thiazide | 1,215 | 650 | 123 | 378 | 964 | 211 | 4 | 33 | 478 | 511 | 145 | 40 | 3 | 0 |
| Other | 1,462 | 752 | 191 | 416 | 1,114 | 279 | 10 | 57 | 536 | 572 | 191 | 54 | 1 | 1 |
| Unknown | 258 | 130 | 29 | 87 | 187 | 58 | 2 | 8 | 111 | 88 | 45 | 7 | 0 | 1 |
| *Category total | 4,140 | 2,172 | 452 | 1,279 | 3,266 | 723 | 23 | 116 | 1,558 | 1,607 | 572 | 162 | 8 | 3 |
| Electrolytes and minerals | | | | | | | | | | | | | | |
| Calcium | 1,537 | 1,189 | 135 | 169 | 1,438 | 70 | 3 | 24 | 188 | 343 | 92 | 21 | 0 | 0 |
| Fluoride | 3,483 | 3,088 | 264 | 86 | 3,417 | 40 | 3 | 21 | 249 | 1,143 | 503 | 16 | 0 | 1 |
| Iron | 4,616 | 3,114 | 649 | 684 | 3,595 | 944 | 5 | 63 | 2,420 | 1,794 | 852 | 247 | 26 | 4 |
| Magnesium | 266 | 109 | 37 | 77 | 222 | 24 | 6 | 14 | 75 | 50 | 57 | 11 | 1 | 0 |
| Potassium | 832 | 452 | 61 | 259 | 690 | 108 | 3 | 27 | 238 | 325 | 80 | 30 | 8 | 0 |
| Sodium | 2,165 | 1,482 | 376 | 206 | 2,012 | 113 | 20 | 16 | 333 | 627 | 391 | 23 | 4 | 1 |
| Zinc | 885 | 492 | 91 | 222 | 811 | 42 | 0 | 30 | 169 | 167 | 151 | 40 | 1 | 0 |
| Other | 119 | 66 | 8 | 27 | 104 | 7 | 0 | 7 | 19 | 25 | 9 | 0 | 1 | 0 |
| Unknown | 5 | 2 | 2 | 1 | 3 | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 |
| *Category total | 13,908 | 9,994 | 1,623 | 1,731 | 12,292 | 1,349 | 41 | 202 | 3,712 | 4,474 | 2,137 | 389 | 41 | 6 |
| Eye/ear/nose/throat preparations | | | | | | | | | | | | | | |
| Nasal preparations | | | | | | | | | | | | | | |
| Tetrahydrozoline | 102 | 43 | 9 | 23 | 98 | 3 | 0 | 1 | 24 | 31 | 48 | 0 | 1 | 0 |
| Other decongestants | 2,496 | 1,492 | 233 | 562 | 2,311 | 96 | 6 | 79 | 569 | 1,039 | 425 | 35 | 3 | 0 |
| Other | 374 | 269 | 28 | 49 | 359 | 2 | 4 | 9 | 29 | 69 | 69 | 6 | 0 | 0 |
| Unknown | 13 | 3 | 2 | 5 | 9 | 1 | 0 | 3 | 5 | 3 | 3 | 0 | 0 | 0 |
| Ophthalmic preparations | | | | | | | | | | | | | | |
| Contact lens products | 3,613 | 2,097 | 243 | 855 | 3,568 | 22 | 8 | 13 | 486 | 698 | 687 | 113 | 2 | 0 |
| Glaucoma therapies | 126 | 56 | 8 | 52 | 109 | 5 | 0 | 12 | 32 | 42 | 25 | 3 | 0 | 0 |
| Tetrahydrozoline | 1,417 | 1,066 | 114 | 170 | 1,304 | 49 | 36 | 15 | 708 | 808 | 147 | 38 | 6 | 0 |
| Other ophthalmic sympathomimetics | 218 | 144 | 20 | 39 | 197 | 6 | 2 | 13 | 71 | 111 | 20 | 4 | 1 | 0 |
| Other | 599 | 335 | 48 | 145 | 545 | 15 | 1 | 38 | 82 | 113 | 99 | 17 | 0 | 0 |
| Unknown | 22 | 9 | 3 | 7 | 16 | 2 | 1 | 3 | 7 | 4 | 6 | 0 | 0 | 0 |
| Otic preparations | | | | | | | | | | | | | | |
| Combination products | 907 | 683 | 75 | 102 | 898 | 3 | 3 | 2 | 107 | 348 | 173 | 11 | 0 | 0 |
| Other | 1,503 | 897 | 129 | 323 | 1,473 | 13 | 5 | 10 | 147 | 323 | 390 | 15 | 0 | 0 |
| Unknown | 47 | 28 | 3 | 11 | 47 | 0 | 0 | 0 | 3 | 10 | 16 | 0 | 0 | 0 |
| Steroids—topical for eye/nose/throat | 746 | 373 | 111 | 191 | 685 | 9 | 4 | 46 | 60 | 133 | 146 | 6 | 0 | 0 |
| Throat preparations | | | | | | | | | | | | | | |
| Lozenges without local anesthetics | 678 | 516 | 79 | 54 | 634 | 35 | 0 | 8 | 33 | 193 | 33 | 3 | 1 | 0 |
| Lozenges with local anesthetics | 606 | 414 | 89 | 59 | 579 | 18 | 0 | 9 | 48 | 156 | 183 | 3 | 0 | 0 |
| Other | 289 | 179 | 47 | 41 | 270 | 12 | 2 | 4 | 47 | 102 | 59 | 3 | 0 | 0 |
| Unknown | 9 | 5 | 1 | 2 | 7 | 2 | 0 | 0 | 2 | 1 | 2 | 1 | 0 | 0 |
| *Category total | 13,765 | 8,609 | 1,242 | 2,690 | 13,109 | 293 | 72 | 265 | 2,460 | 4,184 | 2,531 | 258 | 14 | 0 |
| Gastrointestinal preparations | | | | | | | | | | | | | | |
| Antacids:salicylate containing | 2,533 | 2,114 | 160 | 139 | 2,412 | 52 | 4 | 64 | 202 | 785 | 285 | 10 | 0 | 0 |
| Antacids: other | 16,228 | 14,903 | 564 | 540 | 15,919 | 183 | 19 | 90 | 478 | 3,043 | 420 | 35 | 3 | 0 |
| Antidiarrheals diphenoxylate | 1,594 | 890 | 173 | 460 | 1,214 | 263 | 7 | 108 | 807 | 657 | 296 | 75 | 10 | 2 |

(Continued on following page)

TABLE 22B. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Pharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|--------------------------------------|------------------|----------|-------|--------|--------|--------|-------|---------|---------------------------------|---------|--------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Antidiarrheals: nonnarcotic | 679 | 561 | 45 | 59 | 635 | 20 | 1 | 19 | 64 | 152 | 22 | 2 | 1 | 0 |
| Antidiarrheals: paregoric | 153 | 114 | 17 | 16 | 133 | 15 | 0 | 5 | 38 | 56 | 30 | 3 | 1 | 0 |
| Antidiarrheals: other narcotic | 233 | 182 | 16 | 9 | 231 | 2 | 0 | 0 | 6 | 40 | 66 | 1 | 0 | 0 |
| Antispasmodics: anticholinergic | 1,475 | 586 | 291 | 523 | 836 | 536 | 5 | 90 | 782 | 503 | 326 | 113 | 11 | 0 |
| Antispasmodics: other | 8 | 2 | 2 | 4 | 6 | 2 | 0 | 0 | 5 | 2 | 3 | 0 | 0 | 0 |
| Laxatives | 12,493 | 9,404 | 1,162 | 1,478 | 11,402 | 789 | 93 | 180 | 1,970 | 2,542 | 2,592 | 216 | 10 | 0 |
| Other | 3,185 | 2,448 | 199 | 379 | 2,834 | 237 | 10 | 100 | 619 | 821 | 313 | 88 | 7 | 3 |
| Unknown | 445 | 258 | 30 | 126 | 326 | 77 | 0 | 39 | 110 | 158 | 25 | 14 | 2 | 1 |
| *Category total | 39,026 | 31,462 | 2,659 | 3,733 | 35,948 | 2,176 | 139 | 695 | 5,081 | 8,759 | 4,378 | 557 | 45 | 6 |
| Hormones and hormone antagonists | | | | | | | | | | | | | | |
| Androgens | 155 | 40 | 25 | 65 | 82 | 64 | 1 | 8 | 55 | 32 | 7 | 9 | 0 | 0 |
| Corticosteroids | 5,431 | 3,386 | 594 | 1,090 | 4,727 | 314 | 25 | 354 | 667 | 1,067 | 347 | 55 | 4 | 2 |
| Estrogens | 2,115 | 1,558 | 139 | 320 | 1,890 | 156 | 9 | 55 | 273 | 533 | 82 | 18 | 2 | 0 |
| Insulin | 868 | 63 | 54 | 617 | 583 | 249 | 12 | 20 | 398 | 259 | 101 | 138 | 19 | 3 |
| Oral contraceptives | 9,848 | 8,675 | 681 | 305 | 9,302 | 479 | 6 | 54 | 709 | 2,022 | 284 | 17 | 1 | 0 |
| Oral hypoglycemics | 2,272 | 1,207 | 180 | 761 | 1,794 | 430 | 7 | 31 | 1,669 | 1,017 | 278 | 352 | 48 | 1 |
| Progestins | 959 | 571 | 131 | 180 | 805 | 81 | 1 | 72 | 145 | 205 | 41 | 12 | 1 | 0 |
| Thyroid preparations | 4,199 | 2,814 | 329 | 844 | 3,789 | 345 | 10 | 49 | 923 | 1,291 | 187 | 55 | 7 | 0 |
| Other hormones | 455 | 250 | 57 | 124 | 354 | 69 | 1 | 30 | 192 | 146 | 105 | 28 | 3 | 0 |
| Other hormone antagonists | 205 | 96 | 26 | 65 | 165 | 28 | 0 | 10 | 56 | 80 | 11 | 4 | 0 | 0 |
| Unknown hormones or antagonists | 11 | 6 | 1 | 4 | 8 | 1 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 0 |
| *Category total | 26,518 | 18,666 | 2,217 | 4,375 | 23,499 | 2,216 | 73 | 684 | 5,089 | 6,654 | 1,444 | 688 | 85 | 6 |
| Miscellaneous drugs | | | | | | | | | | | | | | |
| Allopurinol | 265 | 162 | 13 | 71 | 220 | 28 | 0 | 15 | 79 | 102 | 20 | 6 | 1 | 0 |
| L-dopa and related drugs | 360 | 137 | 8 | 179 | 302 | 37 | 2 | 17 | 152 | 134 | 61 | 19 | 0 | 0 |
| Disulfiram | 577 | 32 | 25 | 367 | 161 | 328 | 6 | 78 | 365 | 84 | 144 | 71 | 9 | 0 |
| Ergot alkaloids | 637 | 305 | 91 | 199 | 407 | 161 | 1 | 64 | 364 | 242 | 113 | 43 | 3 | 0 |
| Homeopathic preparations | 1,653 | 1,098 | 135 | 312 | 1,327 | 181 | 3 | 131 | 409 | 541 | 170 | 31 | 8 | 0 |
| Methysergide | 2 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| Neuromuscular blocking agents | 13 | 4 | 2 | 5 | 8 | 1 | 0 | 4 | 11 | 1 | 2 | 1 | 1 | 0 |
| Other | 6,431 | 3,543 | 654 | 1,696 | 5,236 | 762 | 25 | 373 | 1,539 | 1,804 | 1,124 | 217 | 20 | 2 |
| *Category total | 9,938 | 5,282 | 928 | 2,830 | 7,662 | 1,499 | 37 | 682 | 2,920 | 2,910 | 1,634 | 388 | 42 | 2 |
| Muscle relaxants | | | | | | | | | | | | | | |
| Cyclobenzaprine | 2,945 | 560 | 432 | 1,676 | 1,036 | 1,815 | 2 | 75 | 2,182 | 623 | 874 | 391 | 85 | 3 |
| Methocarbamol | 1,018 | 143 | 189 | 550 | 342 | 634 | 3 | 35 | 704 | 250 | 300 | 61 | 13 | 0 |
| Other | 4,209 | 505 | 467 | 2,717 | 1,192 | 2,813 | 5 | 160 | 2,997 | 691 | 1,360 | 460 | 131 | 9 |
| Unknown | 56 | 6 | 20 | 20 | 9 | 46 | 0 | 0 | 37 | 13 | 15 | 3 | 1 | 0 |
| *Category total | 8,228 | 1,214 | 1,108 | 4,963 | 2,579 | 5,308 | 10 | 270 | 5,920 | 1,577 | 2,549 | 915 | 230 | 12 |
| Narcotic antagonists | 35 | 3 | 5 | 19 | 16 | 15 | 0 | 4 | 21 | 3 | 9 | 4 | 2 | 0 |
| Radiopharmaceuticals | 11 | 3 | 0 | 4 | 10 | 0 | 0 | 1 | 6 | 3 | 2 | 1 | 0 | 0 |
| Sedatives/hypnotics/antipsychotics | | | | | | | | | | | | | | |
| Barbiturates: long-acting | 3,517 | 833 | 326 | 2,026 | 1,768 | 1,608 | 10 | 79 | 2,242 | 817 | 882 | 412 | 178 | 4 |
| Barbiturates: short-acting | 1,159 | 110 | 158 | 730 | 305 | 796 | 8 | 37 | 873 | 173 | 381 | 133 | 59 | 4 |
| Barbiturates: unknown type | 31 | 3 | 6 | 21 | 4 | 22 | 0 | 0 | 29 | 2 | 6 | 10 | 4 | 3 |
| Benzodiazepines | 32,334 | 4,203 | 2,636 | 21,513 | 8,112 | 23,289 | 46 | 619 | 24,382 | 5,459 | 10,913 | 3,484 | 877 | 33 |
| Chloral hydrate | 556 | 143 | 57 | 313 | 203 | 308 | 5 | 36 | 428 | 78 | 190 | 87 | 48 | 2 |
| Ethchlorvynol | 195 | 25 | 8 | 139 | 47 | 140 | 2 | 1 | 149 | 17 | 51 | 34 | 16 | 2 |
| Glutethimide | 42 | 1 | 9 | 26 | 4 | 36 | 1 | 0 | 33 | 6 | 9 | 7 | 7 | 0 |
| Meprobamate | 367 | 45 | 28 | 260 | 105 | 251 | 1 | 7 | 265 | 50 | 108 | 60 | 21 | 4 |
| Methaqualone | 62 | 7 | 9 | 39 | 11 | 47 | 1 | 1 | 51 | 5 | 16 | 10 | 2 | 0 |
| Phenothiazines | 10,975 | 1,420 | 1,522 | 6,831 | 3,475 | 6,729 | 23 | 615 | 8,485 | 2,369 | 2,935 | 1,954 | 315 | 25 |
| Sleep aids (OTC) | 2,984 | 153 | 600 | 1,904 | 411 | 2,532 | 4 | 23 | 2,464 | 578 | 899 | 408 | 27 | 0 |
| Other | 2,033 | 291 | 234 | 1,258 | 648 | 1,254 | 4 | 111 | 1,379 | 500 | 578 | 150 | 28 | 3 |
| Unknown | 266 | 12 | 60 | 129 | 21 | 235 | 2 | 3 | 219 | 27 | 67 | 33 | 3 | 0 |
| *Category total | 54,521 | 7,246 | 5,653 | 35,189 | 15,114 | 37,247 | 107 | 1,532 | 40,999 | 10,081 | 17,035 | 6,782 | 1,585 | 80 |
| Serums, toxoids, vaccines | 1,039 | 229 | 115 | 447 | 725 | 11 | 3 | 297 | 411 | 96 | 253 | 58 | 5 | 0 |

(Continued on following page)

TABLE 22B. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Pharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|---------------------|----------|-------|-------|--------|--------|-------|------------|---|---------|-------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| Stimulants and street drugs | | | | | | | | | | | | | | |
| Amphetamines | 6,902 | 2,166 | 2,484 | 1,732 | 4,033 | 2,630 | 41 | 156 | 3,820 | 1,931 | 1,441 | 827 | 74 | 11 |
| Amyl/butyl nitrites | 66 | 11 | 7 | 30 | 34 | 31 | 1 | 0 | 30 | 8 | 21 | 8 | 2 | 0 |
| Caffeine | 5,568 | 1,048 | 2,955 | 1,181 | 1,962 | 3,365 | 22 | 174 | 2,808 | 839 | 1,818 | 684 | 13 | 1 |
| Cocaine | 3,334 | 133 | 326 | 2,454 | 333 | 2,911 | 24 | 20 | 3,008 | 436 | 734 | 773 | 219 | 58 |
| Diet aids: phenyl- propanolamine | 2,240 | 726 | 942 | 458 | 997 | 1,181 | 0 | 49 | 1,366 | 688 | 476 | 289 | 15 | 0 |
| Diet aids: phenyl- propanolamine and caffeine | 235 | 57 | 94 | 70 | 92 | 137 | 0 | 5 | 164 | 63 | 39 | 35 | 0 | 0 |
| Diet aids: other, OTC | 182 | 91 | 35 | 42 | 108 | 52 | 1 | 20 | 73 | 63 | 36 | 11 | 0 | 0 |
| Diet aids: other, Rx | 40 | 14 | 8 | 12 | 23 | 13 | 0 | 3 | 25 | 15 | 10 | 5 | 0 | 0 |
| Diet aids: unknown | 164 | 55 | 58 | 40 | 70 | 80 | 1 | 9 | 104 | 37 | 37 | 19 | 1 | 0 |
| Heroin | 900 | 25 | 33 | 719 | 88 | 793 | 3 | 5 | 808 | 85 | 177 | 250 | 110 | 18 |
| LSD | 890 | 28 | 513 | 223 | 114 | 725 | 34 | 2 | 633 | 52 | 187 | 237 | 18 | 0 |
| Marijuana | 1,032 | 98 | 488 | 330 | 204 | 780 | 22 | 15 | 681 | 87 | 250 | 176 | 21 | 1 |
| Mescaline/peyote | 167 | 41 | 43 | 61 | 97 | 62 | 1 | 2 | 75 | 11 | 46 | 21 | 1 | 0 |
| Phencyclidine | 348 | 19 | 95 | 205 | 39 | 291 | 9 | 0 | 301 | 17 | 81 | 105 | 37 | 3 |
| Phenylpropanolamine look-alike drugs | 189 | 26 | 99 | 48 | 45 | 143 | 1 | 0 | 163 | 38 | 51 | 32 | 0 | 0 |
| Other stimulants | 901 | 218 | 359 | 272 | 283 | 597 | 5 | 9 | 617 | 205 | 244 | 151 | 8 | 0 |
| Other hallucinogens | 2 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Unknown hallucinogens | 8 | 0 | 3 | 5 | 0 | 8 | 0 | 0 | 7 | 2 | 1 | 2 | 1 | 0 |
| Other street drugs | 40 | 12 | 10 | 9 | 19 | 20 | 1 | 0 | 20 | 4 | 9 | 6 | 1 | 0 |
| Unknown stimulants/ street drugs | 97 | 16 | 37 | 28 | 17 | 74 | 5 | 1 | 80 | 12 | 17 | 28 | 1 | 0 |
| *Category total | 23,305 | 4,785 | 8,589 | 7,920 | 8,559 | 13,894 | 171 | 470 | 14,784 | 4,594 | 5,676 | 3,659 | 522 | 92 |
| Topical preparations | | | | | | | | | | | | | | |
| Acne preparations | 1,677 | 768 | 494 | 210 | 1,503 | 38 | 4 | 128 | 168 | 290 | 625 | 39 | 0 | 0 |
| Boric acid/borates | 259 | 174 | 14 | 47 | 248 | 4 | 2 | 5 | 31 | 82 | 33 | 6 | 0 | 0 |
| Calamine | 4,549 | 3,717 | 227 | 488 | 4,488 | 32 | 12 | 15 | 336 | 1,028 | 271 | 33 | 0 | 0 |
| Camphor | 7,635 | 6,055 | 457 | 877 | 7,380 | 179 | 15 | 50 | 1,460 | 3,232 | 1,211 | 74 | 15 | 0 |
| Camphor and methyl salicylate | 1,209 | 952 | 79 | 129 | 1,153 | 20 | 2 | 33 | 219 | 461 | 258 | 9 | 1 | 0 |
| Diaper products | 16,607 | 15,573 | 473 | 414 | 16,546 | 43 | 4 | 9 | 236 | 2,965 | 569 | 14 | 1 | 0 |
| Hexachlorophene antiseptics | 128 | 74 | 14 | 30 | 122 | 3 | 1 | 2 | 27 | 33 | 24 | 1 | 0 | 0 |
| Hydrogen peroxide iodine or iodide antiseptics | 7,912 | 4,511 | 757 | 1,961 | 7,695 | 155 | 16 | 35 | 497 | 1,551 | 1,502 | 82 | 4 | 0 |
| Mercury antiseptics | 1,639 | 682 | 245 | 562 | 1,382 | 189 | 7 | 52 | 412 | 445 | 305 | 45 | 2 | 0 |
| Methyl salicylate | 573 | 466 | 31 | 60 | 549 | 19 | 1 | 4 | 54 | 182 | 31 | 1 | 1 | 0 |
| Podophyllin | 8,045 | 5,888 | 603 | 1,153 | 7,899 | 60 | 21 | 60 | 826 | 2,378 | 1,738 | 42 | 5 | 0 |
| Silver nitrate | 51 | 15 | 3 | 19 | 35 | 9 | 0 | 6 | 25 | 6 | 15 | 4 | 1 | 0 |
| Topical steroids | 156 | 27 | 47 | 65 | 142 | 6 | 2 | 5 | 34 | 21 | 56 | 5 | 1 | 0 |
| Topical steroids with antibiotics | 5,748 | 4,352 | 298 | 770 | 5,619 | 54 | 8 | 63 | 180 | 962 | 369 | 19 | 0 | 0 |
| Wart preparations | 1,356 | 1,077 | 83 | 147 | 1,333 | 5 | 1 | 16 | 67 | 319 | 123 | 4 | 0 | 0 |
| Other liniments | 2,037 | 1,510 | 199 | 238 | 1,981 | 27 | 3 | 23 | 237 | 594 | 444 | 40 | 0 | 0 |
| Other topical antiseptics | 1,611 | 948 | 135 | 397 | 1,513 | 26 | 8 | 61 | 171 | 377 | 430 | 22 | 1 | 0 |
| *Category total | 3,505 | 2,489 | 346 | 492 | 3,359 | 101 | 14 | 26 | 446 | 1,257 | 459 | 38 | 1 | 0 |
| Veterinary Drugs | 64,697 | 49,278 | 4,505 | 8,059 | 62,947 | 970 | 121 | 593 | 5,426 | 16,183 | 8,463 | 478 | 33 | 0 |
| Veterinary Drugs | 2,691 | 1,537 | 213 | 726 | 2,638 | 28 | 9 | 13 | 284 | 738 | 456 | 26 | 4 | 0 |
| Vitamins | | | | | | | | | | | | | | |
| Multiple vitamin tablets: adult formulations | | | | | | | | | | | | | | |
| No iron, no fluoride | 1,855 | 1,357 | 216 | 219 | 1,593 | 152 | 1 | 106 | 235 | 479 | 148 | 11 | 1 | 0 |
| With iron, no fluoride | 4,394 | 3,258 | 511 | 485 | 3,748 | 586 | 4 | 52 | 1,183 | 1,754 | 417 | 67 | 5 | 0 |
| With iron, with fluoride | 71 | 62 | 5 | 3 | 64 | 7 | 0 | 0 | 22 | 21 | 12 | 5 | 0 | 0 |
| No iron, with fluoride | 193 | 190 | 3 | 0 | 192 | 0 | 0 | 0 | 8 | 94 | 5 | 0 | 0 | 0 |
| Multiple vitamin tablets: pediatric formulations | | | | | | | | | | | | | | |
| No iron, no fluoride | 7,725 | 6,955 | 718 | 35 | 7,597 | 111 | 4 | 12 | 274 | 2,375 | 303 | 6 | 0 | 0 |
| With iron, no fluoride | 12,427 | 11,274 | 1,063 | 65 | 12,249 | 153 | 1 | 22 | 2,148 | 5,183 | 1,156 | 79 | 0 | 0 |
| With iron, with fluoride | 668 | 630 | 27 | 7 | 652 | 14 | 0 | 1 | 67 | 191 | 48 | 2 | 0 | 0 |
| No iron, with fluoride | 1,890 | 1,791 | 69 | 27 | 1,871 | 15 | 0 | 3 | 75 | 468 | 62 | 0 | 0 | 0 |
| Multiple vitamin liquids: adult formulations | | | | | | | | | | | | | | |

(Continued on following page)

TABLE 22B. Demographic Profile of Exposure Cases by Generic Category of Substances and Products: Pharmaceuticals (Cont'd)

| Substance Implicated in the Exposure | No. of Exposures | Age (yr) | | | Reason | | | | Treated in Health Care Facility | Outcome | | | | |
|---|------------------|----------|---------|---------|---------|---------|-------|---------|---------------------------------|---------|---------|----------|-------|-------|
| | | <6 | 6-19 | >19 | Unint | Int | Other | Adv Rxn | | None | Minor | Moderate | Major | Death |
| No iron, no fluoride | 273 | 185 | 37 | 43 | 227 | 36 | 0 | 7 | 130 | 93 | 24 | 3 | 2 | 0 |
| With iron, no fluoride | 78 | 42 | 9 | 19 | 60 | 11 | 1 | 6 | 19 | 21 | 8 | 0 | 0 | 0 |
| With iron, with fluoride | 3 | 1 | 2 | 0 | 1 | 1 | 1 | 0 | 3 | 3 | 0 | 0 | 0 | 0 |
| No iron, with fluoride | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Multiple vitamin liquids: pediatric formulations | | | | | | | | | | | | | | |
| No iron, no fluoride | 209 | 198 | 5 | 4 | 201 | 1 | 0 | 6 | 15 | 55 | 19 | 0 | 0 | 0 |
| With iron, no fluoride | 363 | 338 | 18 | 2 | 359 | 3 | 0 | 1 | 34 | 134 | 34 | 1 | 0 | 0 |
| With iron, with fluoride | 92 | 89 | 3 | 0 | 91 | 0 | 0 | 0 | 9 | 28 | 7 | 0 | 0 | 0 |
| No iron, with fluoride | 526 | 505 | 13 | 3 | 516 | 2 | 2 | 6 | 19 | 131 | 25 | 0 | 0 | 0 |
| Multiple vitamins, unspecified adult formulations | | | | | | | | | | | | | | |
| No iron, no fluoride | 42 | 27 | 4 | 8 | 32 | 6 | 0 | 4 | 9 | 7 | 3 | 0 | 0 | 0 |
| With iron, no fluoride | 1,727 | 1,381 | 194 | 116 | 1,537 | 164 | 3 | 21 | 465 | 705 | 181 | 22 | 2 | 1 |
| With iron, with fluoride | 12 | 8 | 3 | 1 | 10 | 2 | 0 | 0 | 7 | 6 | 2 | 2 | 0 | 0 |
| No iron, with fluoride | 9 | 3 | 2 | 4 | 6 | 2 | 0 | 1 | 3 | 2 | 2 | 0 | 0 | 0 |
| Multiple vitamins, unspecified pediatric formulations | | | | | | | | | | | | | | |
| No iron, no fluoride | 125 | 111 | 12 | 1 | 124 | 1 | 0 | 0 | 6 | 38 | 5 | 0 | 0 | 0 |
| With iron, no fluoride | 140 | 128 | 11 | 1 | 138 | 2 | 0 | 0 | 23 | 67 | 12 | 1 | 0 | 0 |
| With iron, with fluoride | 6 | 5 | 1 | 0 | 5 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| No iron, with fluoride | 30 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 10 | 1 | 0 | 0 | 0 |
| Other vitamins | | | | | | | | | | | | | | |
| Vitamin A | 950 | 656 | 81 | 155 | 833 | 70 | 0 | 43 | 129 | 265 | 68 | 11 | 0 | 0 |
| Niacin(B ₃) | 1,779 | 410 | 161 | 956 | 873 | 107 | 6 | 790 | 212 | 88 | 790 | 40 | 1 | 1 |
| Pyridoxine (B ₆) | 283 | 172 | 27 | 59 | 224 | 35 | 0 | 23 | 62 | 79 | 23 | 12 | 3 | 0 |
| Other B complex vitamins | 1,085 | 715 | 103 | 206 | 874 | 112 | 3 | 91 | 182 | 269 | 94 | 12 | 0 | 0 |
| Vitamin C | 1,860 | 1,441 | 221 | 148 | 1,698 | 119 | 3 | 37 | 144 | 459 | 131 | 10 | 2 | 0 |
| Vitamin D | 163 | 107 | 12 | 36 | 143 | 15 | 4 | 1 | 39 | 57 | 8 | 1 | 0 | 0 |
| Vitamin E | 1,048 | 849 | 73 | 98 | 975 | 44 | 0 | 28 | 89 | 261 | 47 | 1 | 0 | 0 |
| Other | 581 | 432 | 48 | 76 | 511 | 39 | 2 | 28 | 101 | 175 | 63 | 3 | 1 | 0 |
| Unknown | 938 | 690 | 93 | 103 | 799 | 91 | 2 | 40 | 242 | 281 | 70 | 15 | 3 | 0 |
| *Category total | 41,547 | 34,042 | 3,745 | 2,880 | 38,235 | 1,902 | 37 | 1,329 | 5,955 | 13,800 | 3,768 | 304 | 20 | 2 |
| Unknown drugs | 16,116 | 5,642 | 2,729 | 5,485 | 10,736 | 3,380 | 840 | 538 | 7,961 | 3,683 | 2,724 | 1,021 | 210 | 0 |
| Total number of pharmaceutical substances | 792,902 | 415,303 | 115,966 | 212,227 | 552,722 | 208,020 | 2,916 | 25,468 | 295,333 | 219,715 | 135,314 | 41,050 | 8,293 | 682 |
| % of pharmaceutical substances | | 52.4 | 14.6 | 26.8 | 69.7 | 26.2 | 0.4 | 3.2 | 37.2 | 27.7 | 17.1 | 5.2 | 1.0 | 0.1 |
| % of all substances | 42.4 | 22.2 | 6.2 | 11.4 | 29.6 | 11.1 | 0.2 | 1.4 | 15.8 | 11.8 | 7.2 | 2.2 | 0.4 | 0.0 |

NOTE: Patients with unknown age, reason, or medical outcome were omitted from the respective tabulations.

ABBREVIATIONS: Adv Rxn, adverse reaction; Int, intentional; Unint, unintentional.

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