Toxicology

A special contribution from the American Association of Poison Control Centers.



2002 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System

WILLIAM A. WATSON, PHARMD, TOBY L. LITOVITZ, MD, GEORGE C. RODGERS, JR, MD, PHD, WENDY KLEIN-SCHWARTZ, PHARMD, MPH, JESSICA YOUNISS, MBA, S. RUTHERFOORD ROSE, PHARMD, DOUGLAS BORYS, RPH, MARY E. MAY, BA, MPH

Toxic Exposure Surveillance System (TESS) data are compiled by the American Association of Poison Control Centers (AAPCC) on behalf of US poison centers. These data are used to identify hazards early, focus prevention education, guide clinical research, and direct training. TESS data have prompted product reformulations, repackaging, recalls, and bans; are used to support regulatory actions; and form the basis of postmarketing surveillance of newly released drugs and products. From its inception in 1983, TESS has grown dramatically, with increases in the number of participating poison centers, population served by those centers, and reported human exposures (Table 1A).¹⁻¹⁹

The cumulative AAPCC database now contains 33.8 million human poison exposure cases. This report includes 2,380,028 human exposure cases reported by 64 participating poison centers during 2002, an increase of 4.9% compared to 2001 poisoning reports.

The American Association of Poison Control Centers gratefully acknowledges the generous financial contribution of McNeil Consumer and Specialty Pharmaceuticals in support of the compilation and production of this report.

© 1985-2003 by the American Association of Poison Control Centers. Published by permission. All rights reserved. Reprints are available at a cost of \$10 each. Address requests to AAPCC, 3201 New Mexico Ave, Suite 330, Washington, DC 20016. doi: 10.1016/S0735-6757(03)00088-3

US poison centers make possible the compilation and reporting of this comprehensive description of human exposures to potentially toxic substances through their meticulous documentation of each case using standardized definitions and compatible computer systems. Centers participating in this report include Regional Poison Control Center, Birmingham, AL; Alabama Poison Center, Tuscaloosa, AL; Arizona Poison and Drug Information Center, Tucson, AZ; Banner Poison Control Center, Phoenix, AZ; Arkansas Poison and Drug Information Center, Little Rock, AR; California Poison Control System—Fresno/Madera Division, CA; California Poison Control System—Sacramento Division, CA; California Poison Control System—San Diego Division, CA; California Poison Control System—San Francisco Division, 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, Tampa, FL; Florida Poison Information Center, Jacksonville, FL; Florida Poison Information Center, Miami, FL; Georgia Poison Center, Atlanta, GA; Illinois Poison Center, Chicago, IL; Indiana Poison Center, Indianapolis, IN; Iowa Statewide Poison Control Center, Sioux City, IA; Mid-America Poison Control Center, Kansas City, KS; Kentucky Regional Poison Center, Louisville, KY; Louisiana Drug and Poison Information Center, Monroe, LA; Northern New England Poison Center, Portland, ME; Maryland Poison Center, Baltimore, MD; Regional Center for Poison Control and Prevention Serving Massachusetts and Rhode Island, Boston, MA; Children's Hospital of Michigan Regional Poison Control Center, Detroit, MI; DeVos Children's Hospital Regional Poison Center, Grand Rapids, MI; Hennepin Regional Poison Center, Minneapolis, MN; Mississippi Regional Poison Control Center, Jackson, MS; Missouri 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; Long Island Regional Poison and Drug Information Center, Mineola, NY; Finger Lakes Regional Poison and Drug Information Center, Rochester, NY; Central New York Poison Center, Syracuse, NY; Western New York Poison Center, Buffalo, NY; Carolinas Poison Center, Charlotte, NC; Cincinnati Drug and Poison Information Center, Cincinnati, OH; Central Ohio Poison Center, Columbus, OH; Greater Cleveland Poison Control Center, Cleveland, OH; Oklahoma Poison Control Center, Oklahoma City, OK; Oregon Poison Center, Portland, OR; Pittsburgh Poison Center, Pittsburgh, PA; The Poison Control Center, Philadelphia, PA; Penn State Poison Center, Hershey, PA; San Jorge Children's Hospital Poison Center, Santurce, PR; Palmetto Poison Center, Columbia, SC; Middle Tennessee Poison Center, Nashville, TN; Southern Poison Center, Memphis, TN; Central Texas Poison Center, Temple, TX; North Texas Poison Center, Dallas, TX; Southeast Texas Poison Center, Galveston, TX; Texas Panhandle Poison Center, Amarillo, TX; West Texas Regional Poison Center, El Paso, TX; South Texas Poison Center, San Antonio, 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; West Virginia Poison Center, Charleston, WV; and Children's Hospital of Wisconsin Poison Center, Milwaukee, WI.

 TABLE 1A.
 Growth of the AAPCC Toxic Exposure Surveillance

 System
 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
1994	65	215.9	1,926,438	8.9
1995	67	218.5	2,023,089	9.3
1996	67	232.3	2,155,952	9.3
1997	66	250.1	2,192,088	8.8
1998	65	257.5	2,241,082	8.7
1999	64	260.9	2,201,156	8.4
2000	63	270.6	2,168,248	8.0
2001	64	281.3	2,267,979	8.1
2002 Total	64	291.6	2,380,028 33,820,996	8.2

CHARACTERIZATION OF PARTICIPATING CENTERS

Of the 64 reporting centers, 63 submitted data for the entire year. Fifty-two of the 64 participating centers were certified as regional poison centers by the AAPCC at the end of 2002. The annual human exposure case volume by center ranged from 11,473 to 104,507 (mean 37,756) for centers participating for the entire year. Penetrance, calculated for states that were served for the entire year by centers participating in TESS, ranged from 6.2 to 16.0 exposures per 1,000 population with a mean of 8.2 reported exposures per 1,000 population. Penetrance is defined as the number of human poison exposure cases reported per 1,000 individuals per year in the population served.

A total population of 291.6 million was served by the participating centers, including 49 entire states (all except North Dakota), the District of Columbia and Puerto Rico. Focusing on the population of the 50 states and DC, a total of 287.7 million of this 288.4 million population were served (99.8%). 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, as considerable variations in poison center penetrance were noted. Indeed, assuming all centers reached the penetrance level of 16.0 poisonings/1,000 population reported for one state, 4.6 million poisonings would have been reported to poison centers in 2002. Although this report focuses on the human exposure cases reported to TESS in 2002, the database also contains data (not presented here) on animal poison exposures (130,010 cases, mostly pets), human confirmed nonexposures (7,239), animal confirmed nonexposures (453), and information calls (1,110,635). An additional 4,605 duplicate reports were excluded (cases reported to more than one participating poison center). This total of 3,632,974 cases and information calls reported to TESS in

2002 does not reflect the full extent of poison center effort. Nearly 2.6 million follow-up calls were placed by poison centers during the year to provide further patient guidance, confirm compliance with recommendations, and gather final outcome data. Follow-ups were done in 44% of human exposure cases. One follow-up call was made in 22% of cases; and multiple follow-up calls (range 2 to 97) were placed in 22% of cases.

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. Comparison of data from the 44 states that participated for the entirety of both 2001 and 2002 shows an increase of 2.9% in the number of reported poison exposures from 2001 to 2002.

Information call subcategories were implemented in TESS in 2002. A total of 1,110,635 information calls were reported to TESS, including 136,103 calls coded in optional reporting categories such as administrative, immediate referral, and prevention/safety/education (Table 1B). These latter call types were reported inconsistently as they were not required to be reported by participating poison centers.

The most frequent information call was for drug identification, comprising 557,515 calls to poison centers during the year. Of these, 105,069 (18.8%) could not be identified over the telephone. Of the drug identification calls, 74.2% were received from the public, 13.7% from health professionals, and 10.2% from law enforcement. It is important to note that these calls were categorized based on the abuse potential of the identified substance in the absence of any knowledge of whether abuse was actually intended.

Drug information calls (175,562 calls) comprised 15.8% of all information calls. Of these 19.0% were questions about drug-drug interactions, 12.6% were questions about therapeutic use and indications, and 12.0% were questions about adverse effects. Environmental inquiries comprised 3.7% of all information calls. Of these, 27.3% related to clean-up of mercury thermometers and 12.7% involved pesticides. Poison information comprised 10.5% of information calls, with 11.5% of these involving food poisoning or food preparation practices and 11.5% involving plant toxicity.

REVIEW OF THE DATA

Changes to the data collection format in 2002 included: 1) required submission of information calls, 2) sub-categorization of information calls into 91 subcategories, 3) expanded scenario coding options, 4) addition of "withdrawal" as an exposure reason, 5) addition of substance formulation field, and 6) implementation of generic codes to capture calls about weapons of mass destruction. Prior revisions occurred in 1984, 1985, 1993, 2000 and 2001. Data reported after January 1, 2000 allows an unlimited number of substances for each case, a factor that should be considered when comparing substance data with prior years.

Of the 2,380,028 human exposures reported in 2002, 92.3% occurred at a residence (Table 2). Exposures occurred in the workplace in 2.2% of cases, in schools (1.5%), health care facilities (0.3%), and restaurants or food services (0.4%). Poison center peak call volumes were between 4 to 10 PM, although call frequency remained consistently high

TABLE 1B. Distribution of Information Calls

Information Call Type	No. of Calls	%	
Drug Identification			
Public inquiry: Drug sometimes involved in abuse	198.967	17.91	
Public inquiry: Drug not known to be abused	129,209	11.63	
Public inquiry: Unknown abuse potential	11,334	1.02	
Public inquiry: Unable to identify	74.412	6.70	
Health professional inquiry: Drug sometimes involved in abuse	19.388	1.75	
Health professional inquiry: Drug not known to be abused	33,599	3.03	
Health professional inquiry: Unknown abuse potential	2,503	0.23	
Health professional inquiry: Unable to identify	21,131	1.90	
Law Enforcement Inquiry: Drug sometimes involved in abuse	28,682	2.58	
Law Enforcement Inquiry: Drug not known to be abused	17,365	1.56	
Law Enforcement Inquiry: Unknown abuse potential	1,568	0.14	
Law Enforcement Inquiry: Unable to identify	9,526	0.86	
Other drug identification	9,831	0.89	
Subtotal	557,515	50.20	
Drug information	·		
Adverse effects (no known exposure)	21,052	1.90	
Brand/generic name clarifications	5,128	0.46	
Calculations	598	0.05	
Compatibility of parenteral medications	492	0.04	
Compounding	985	0.09	
Contraindications	3,086	0.28	
Dietary supplement, herbal, and homeopathic	2,929	0.26	
Dosage	14,325	1.29	
Dosage form/formulation	5,527	0.50	
Drug use during breast-feeding	8,878	0.80	
Drug-drug interactions	33,413	3.01	
Drug-food interactions	1,979	0.18	
Foreign drug	2,926	0.26	
Generic substitution	738	0.07	
Indications/therapeutic use	22,079	1.99	
Medication administration	3,497	0.31	
Medication availability	2,343	0.21	
Medication disposal	659	0.06	
Pharmacokinetics	4,387	0.39	
Pharmacology	3,016	0.27	
Regulatory	1,251	0.11	
Stability/storage	3,195	0.29	
Therapeutic drug monitoring	1,201	0.11	
Other drug info	31,878	2.87	
Subtotal	175,562	15.81	
Environmental information	41,008	3.69	
Medical information	33,167	2.99	
Occupational information	2,471	0.22	
Poison information	116,190	10.46	
Substance Abuse	9,483	0.85	
Teratogenicity information	6,072	0.55	
Other information	33,064	2.98	
Administrative (optional)	17,441	1.57	
Caller Reterred (optional)	52,594	4.74	
Prevention/Safety/Education (optional)	66,068	5.95	
I OTAI	1,110,635	100.00	

between 8 AM and midnight, with 90% of calls logged during this 16-hour period. The average number of human poison exposure consultations handled per day by all participating U.S. poison centers was 6,521. Higher volumes were observed in the warmer months, with a mean of 7,025 per day in June compared to 5,832 consultations per day in December. On average, ignoring time of day and seasonal fluctuations, U.S. poison centers handled one poison exposure every 13 seconds. Figure 1 shows the temporal consistency of TESS human exposure data and seasonal variation over the three year period of January 2000 through December 2002. Call volume was consistently lower on weekends and major holidays (Christmas, New Years, Thanksgiving weekend). Information calls to poison centers show an even more profound weekend decrease (Figure 2). There was a significant increase in information calls in early October 2001 associated with anthrax incidents and a second peak in late April 2002 in response to a nationally

 $\ensuremath{\mathsf{TABLE}}\xspace$ 2. Site of Caller and Site of Exposure, Human Exposure Cases

	Site of Caller (%)	Site of Exposure (%)
Residence		
Own	75.6	89.2
Other	2.4	3.1
Health care facility	14.3	0.3
Workplace	1.6	2.2
School	0.7	1.5
Public area	0.4	1.3
Restaurant/food service	0.0	0.4
Other	4.8	1.0
Unknown	0.3	1.0

syndicated newspaper column highlighting poison centers. The apparent increase in information calls in January 2002 reflects a combination of 1) nationwide promotion of a single toll-free number for all poison control centers, 1-800-222-1222, beginning in January 2002; and 2) a newly instituted requirement for poison centers to report all information calls to TESS (although most also reported in 2001).

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 39.1% of cases, and 51.6% 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. Of all poison exposures captured, 8,309 occurred in pregnant women. Of those with known pregnancy duration, 32% occurred in the first trimester, 37% in the second trimester, and 31% in the third trimester. In 4.5% of cases (107,249 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).

Fatalities differed from the total exposure data set in several ways. Table 4 presents the age and gender distribution for the 1,153 reported fatalities. Although responsible for the majority of poisoning reports, children younger than 6 years of age comprised just 2.0% (23) of the fatalities. Sixty-one percent of poisoning fatalities occurred in 20- to 49-year-old individuals.

A single substance was implicated in 91.9% of reports, and 2.7% of patients were exposed to more than two possibly poisonous drugs or products (Table 5). In contrast, 53% of fatal cases involved two or more drugs or products. The overwhelming majority of human exposures were acute (91.8%) compared to 52.7% of poison-related fatal exposures. Chronic exposures comprised 2.1% of all poison exposure reports, and acute-on-chronic exposures comprised 5.2%. (Chronic exposures were defined as continuous or repeated exposures occurring in a period exceeding 8 hours.)

Reason for exposure was coded according to the following definitions: *Unintentional general:* All unintentional exposures not otherwise defined below. Most unintentional



FIGURE 1. Frequency of Human Exposures Reported to US Poison Control Centers



FIGURE 2. Frequency of Information Calls to US Poison Control Centers

TABLE 3. Age and Gender Distribution of Human Exposure Cases

	Ma	le	Fema	ale	Unk	nown	Tota	al	Cumulativ	e Total
Age (yr)	No.	Row %	No.	Row %	No.	Row %	No.	Col %	No.	Col %
<1	73,564	51.4	68,909	48.2	533	0.4	143,006	6.0	143,006	6.0
1	205,143	51.7	191,075	48.1	679	0.2	396,897	16.7	539,903	22.7
2	205,042	52.5	184,831	47.3	664	0.2	390,537	16.4	930,440	39.1
3	91,570	54.8	75,020	44.9	365	0.2	166,955	7.0	1,097,395	46.1
4	43,944	55.4	35,151	44.3	247	0.3	79,342	3.3	1,176,737	49.4
5	25,446	55.9	19,895	43.7	152	0.3	45,493	1.9	1,222,230	51.4
Unknown child \leq 5	2,348	45.6	2,184	42.4	619	12.0	5,151	0.2	1,227,381	51.6
6-12	89,880	56.4	68,601	43.0	1,006	0.6	159,487	6.7	1,386,868	58.3
13-19	75,472	43.9	95,496	55.6	763	0.4	171,731	7.2	1,558,599	65.5
Unknown child	2,231	39.6	2,070	36.8	1,331	23.6	5,632	0.2	1,564,231	65.7
Total children (<20)	814,640	52.1	743,232	47.5	6,359	0.4	1,564,231	65.7	1,564,231	65.7
20-29	83,621	44.4	104,499	55.5	222	0.1	188,342	7.9	1,752,573	73.6
30-39	75,480	42.4	102,530	57.6	145	0.1	178,155	7.5	1,930,728	81.1
40-49	59,116	40.9	85,138	59.0	115	0.1	144,369	6.1	2,075,097	87.2
50-59	33,537	38.8	52,930	61.2	55	0.1	86,522	3.6	2,161,619	90.8
60-69	17,017	36.3	29,846	63.7	18	0.0	46,881	2.0	2,208,500	92.8
70-79	12,337	34.9	23,011	65.1	22	0.1	35,370	1.5	2,243,870	94.3
80-89	6,238	31.3	13,675	68.5	41	0.2	19,954	0.8	2,263,824	95.1
90-99	938	26.8	2,556	73.0	6	0.2	3,500	0.1	2,267,324	95.3
Unknown adult	38,784	38.6	58,546	58.3	3,097	3.1	100,427	4.2	2,367,751	99.5
Total adults	327,068	40.7	472,731	58.8	3,721	0.5	803,520	33.8	2,367,751	99.5
Unknown age	4,040	32.9	5,314	43.3	2,923	23.8	12,277	0.5	2,380,028	100.0
Total	1,145,748	48.1	1,221,277	51.3	13,003	0.5	2,380,028	100.0	2,380,028	100.0

 TABLE 4.
 Distribution of Age and Gender for 1,153 Fatalities

Age (yr)	Male	Female	Unknown	Total	%	Cumulative Total	Cumulative %
<1	2	4	1	7	0.6	7	0.6
1	3	1	0	4	0.3	11	1.0
2	4	0	0	4	0.3	15	1.3
3	3	1	0	4	0.3	19	1.6
4	1	3	0	4	0.3	23	2.0
5	0	0	0	0	0.0	23	2.0
6-12	3	3	0	6	0.5	29	2.5
13-19	36	40	0	76	6.6	105	9.1
20-29	131	70	0	201	17.4	306	26.5
30-39	127	101	0	228	19.8	534	46.3
40-49	138	141	1	280	24.3	814	70.6
50-59	79	67	0	146	12.7	960	83.3
60-69	34	32	0	66	5.7	1,026	89.0
70-79	22	31	0	53	4.6	1,079	93.6
80-89	14	25	1	40	3.5	1,119	97.1
90-99	3	4	0	7	0.6	1,126	97.7
Unknown adult	15	5	0	20	1.7	1,146	99.4
Unknown	4	2	1	7	0.6	1,153	100.0
Total	619	530	4	1,153	100.0	1,153	100.0

exposures in children are reported here. Environmental: Any passive, nonoccupational exposure that results from contamination of air, water, or soil. Environmental exposures are usually 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 used as medications are included. Drug interactions resulting from unintentional administration of drugs or foods which are known to interact are also included. Unintentional misuse: Unintentional improper or incorrect use of a nonpharmaceutical 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

No. of Substances	No. of Cases	% of Cases
1	2,186,083	91.9
2	129,887	5.5
3	37,787	1.6
4	14,538	0.6
5	5,993	0.3
6	2,828	0.1
7	1,322	0.1
8	684	0.0
≥9	906	0.0
Total	2,380,028	100.0

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 or euphoric effect. Intentional abuse: An exposure resulting from the intentional improper or incorrect use of a substance where the victim was likely attempting to achieve a euphoric or psychotropic effect. All recreational use of substances for any

TABLE 6A. Reason for Human Exposure Cases

Reason	No.	%
Unintentional		
General	1,498,801	63.0
Therapeutic error	193,194	8.1
Bite/sting	90,896	3.8
Misuse	90,637	3.8
Environmental	64,330	2.7
Food poisoning	42,690	1.8
Occupational	35,882	1.5
Unknown	4,167	0.2
Subtotal	2,020,597	84.9
Intentional		
Suspected suicide	181,894	7.6
Abuse	42,617	1.8
Misuse	41,246	1.7
Unknown	12,840	0.5
Subtotal	278,597	11.7
Other		
Malicious	8,801	0.4
Contamination/tampering	5,336	0.2
Withdrawal	420	0.0
Subtotal	14,557	0.6
Adverse Reaction		
Drug	41,215	1.7
Food	4,694	0.2
Other	11,224	0.5
Subtotal	57,133	2.4
Unknown	9,144	0.4
Total	2,380,028	100.0

TABLE 6B.	Scenarios	for Thera	peutic Errors	s
-----------	-----------	-----------	---------------	---

	Number of Cases	< 6 Years (Row %)	6-12 Years (Row %)	13-19 Years (Row %)	> 19 Years (Row %)	Unknown (Row %)
Inadvertently took/given medication twice	67.810	25.8	12.0	5.9	55.0	03
Other incorrect dose	27 134	23.0	12.5	77	40.8	0.3
Wrong medication taken/given	20.697	18.5	13.7	6.7	60.8	0.4
Inadvertently took/given someone else's medication	20,322	21.9	19.3	7.1	51.4	0.3
Other/unknown therapeutic error	13,986	25.8	12.1	7.7	53.7	0.6
Medication doses given/taken too close together	11,835	28.2	10.9	7.7	52.9	0.3
Incorrect formulation or concentration given	9,070	51.3	18.5	4.9	25.0	0.3
Confused units of measure	5,899	60.9	15.1	5.6	18.2	0.2
Incorrect dosing route	5,085	19.3	8.0	5.3	66.5	0.9
Dispensing cup error	4,743	60.8	16.9	4.8	17.3	0.1
More than 1 product containing same ingredient	3,750	35.1	17.3	12.8	34.6	0.2
Incorrect formulation or concentration dispensed	2,552	44.0	17.1	5.0	33.4	0.5
Health professional/iatrogenic error	2,522	32.2	10.6	5.0	51.0	1.1
10-fold dosing error	1,375	62.5	5.5	3.3	28.1	0.5
Drug interaction	856	11.2	8.2	7.8	72.3	0.5
Exposure through breast milk	125	94.4	1.6	0.0	0.0	4.0

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. Withdrawal: Effect related to decline in blood concentration of a pharmaceutical or other substances after discontinuing therapeutic use or abuse of that substance. 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 due to 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 coded instead as a therapeutic error.

The vast majority (84.9%) of poison exposures was unintentional; suicidal intent was present in 7.6% of cases (Table 6A). Therapeutic errors comprised 8.1% of exposures (193,194 cases), with unintentional nonpharmaceutical product misuse comprising another 3.8% of exposures. The types of therapeutic errors observed in each age group are delineated in Table 6B. Approximately 35% of therapeutic errors involved double-dosing. Dispensing cup errors were seen in 4,743 cases, 10-fold dosing errors in 1,375 cases, iatrogenic or dispensing errors in 5,074 cases, and errors resulting from exposure to multiple products with common ingredients occurred in 3,750 cases.

Unintentional poisonings outnumbered intentional poisonings in all age groups (Table 7). In contrast, of the 1,153 human poisoning fatalities reported, 89% of adolescent deaths and 81% of adult deaths (older than 19 years of age) were intentional (Table 8).

Ingestion was the route of exposure in 76.0% of cases (Table 9), followed in frequency by dermal, inhalation, and ocular routes. For the 1,153 fatalities, ingestion, inhalation, and parenteral were the predominant exposure routes.

Clinical effects (signs, symptoms, or laboratory abnormalities) were coded in 30.4% of cases (16.6% had one effect, 7.9% had two effects, 3.9% had three effects, 1.3% had four effects, 0.4% had five effects, and 0.2% had more than five effects). Of 1,580,083 clinical effects coded, 80.7% were deemed related, 8.9% were considered not related, and 10.4% were coded as "unknown if related".

The majority of cases reported to poison centers were managed in a non-health care facility (76%), usually at the site of exposure, the patient's own home (Table 10). This includes the 2% of cases that were referred to a health care facility but refused to go. Treatment in a health care facility was rendered in 22.2% of cases. The percentage of patients treated in a health care facility varied considerably with age.

TABLE 7. Distribution of Reason for Exposure by Age

	< 6 Years		6-12 Years		13-19 Years		> 19 Years		Unknown*		Total	
Reason	No.	Row %	No.	Row %	No.	Row %	No.	Row %	No.	Row %	No.	Col %
Unintentional	1,220,273	60.4	145,571	7.2	84,590	4.2	557,479	27.6	12,684	0.6	2,020,597	84.9
Intentional	996	0.4	8,497	3.0	78,785	28.3	186,815	67.1	3,504	1.3	278,597	11.7
Other	1,151	7.9	1,576	10.8	2,390	16.4	9,128	62.7	312	2.1	14,557	0.6
Adverse Reaction	4,437	7.8	3,201	5.6	4,582	8.0	44,165	77.3	748	1.3	57,133	2.4
Unknown	524	5.7	642	7.0	1,384	15.1	5,933	64.9	661	7.2	9,144	0.4
Total	1,227,381	51.6	159,487	6.7	171,731	7.2	803,520	33.8	17,909	0.8	2,380,028	100.0

*Includes unknown child and unknown age

TABLE 8.Distribution of Reason for Exposure and Age for 1,153Fatalities

	< 6	6-12	13-19	> 19		
Reason	Years	Years	Years	Years	Unknown	Total
Unintentional						
General	6	1	0	5	0	12
Therapeutic error	4	2	1	47	0	54
Bite/sting	2	0	0	3	0	5
Misuse	0	0	1	20	0	21
Environmental	3	2	1	20	0	26
Food poisoning	0	0	0	0	0	0
Occupational	0	0	1	15	0	16
Unknown	0	0	0	5	0	5
Subtotal	15	5	4	115	0	139
Intentional						
Suicide	0	1	37	590	1	629
Abuse	0	0	21	127	2	150
Misuse	0	0	1	61	0	62
Unknown	0	0	9	63	1	73
Subtotal	0	1	68	841	4	914
Other						
Contamination/						
tampering	0	0	0	0	0	0
Malicious	3	0	1	4	0	8
Subtotal	3	0	1	4	0	8
Adverse reaction	3	0	2	17	0	22
Unknown	2	0	1	64	3	70
Total	23	6	76	1,041	7	1,153

Only 10.5% of children under 6 years and only 13.9% of children between 6 and 12 years were managed in a health care facility compared to 48.3% of teenagers (13 to 19 years of age) and 35.9% of adults (over 19 years of age). Of cases managed in a health care facility, 54.3% were treated and released without admission, 13.8% were admitted for critical care, and 7.5% were admitted for noncritical care. Where treatment was provided in a health care facility,

 TABLE 9.
 Distribution of Route of Exposure for Human Exposure

 Cases and 1,153 Fatalities

	All Exposur	e Cases	Fatal Expo	sure Cases
Route	No.	%	No.	%
Ingestion	1,900,816	76.0	977	74.1
Dermal	193,822	7.8	22	1.7
Inhalation	154,167	6.2	103	7.8
Ocular	130,857	5.2	2	0.2
Bites and stings	90,896	3.6	6	0.5
Parenteral	11,113	0.4	53	4.0
Otic	2,563	0.1	0	0.0
Aspiration	1,562	0.1	24	1.8
Rectal	889	0.0	0	0.0
Vaginal	848	0.0	0	0.0
Other	2,885	0.1	3	0.2
Unknown	9,688	0.4	129	9.8
Total	2,500,106	100.0	1,319	100.0

NOTE: Multiple routes of exposure were observed in many poison exposure victims. Percentage is calculated on the total number of exposure routes (2,500,106 for all patients; 1,319 for fatal cases) rather than the total number of human exposures (2,380,028) or fatalities (1,153).

TABLE 10.	Management	Site of	Human	Exposure	Cases
-----------	------------	---------	-------	----------	-------

Site	No.	%
Managed on-site, non-health care facility	1,766,814	74.2
Managed in health care facility		
Treated and released	286,748	12.0
Admitted to critical care	72,877	3.1
Admitted to noncritical care	39,671	1.7
Admitted to psychiatry	43,360	1.8
Lost to follow-up; left AMA	85,437	3.6
Subtotal	528,093	22.2
Other	21,901	0.9
Refused referral	49,417	2.1
Unknown	13,803	0.6
Total	2,380,028	100.0

ABBREVIATION: AMA, against medical advice

32.1% of the patients were referred in by the poison center and 67.9% were already in or en route to the health care facility when the poison center was contacted. Health care facilities included acute care hospitals (81.9%), physician offices or clinics (10.3%), and freestanding emergency centers (3.3%).

Table 11 displays the medical outcome of the human poison exposure cases distributed by age, showing a greater rate of severe outcomes in the older age groups. Table 12 compares medical outcome and reason for exposure, and shows a greater frequency of serious outcomes in intentional exposures. Table 13 demonstrates an increasing duration of the clinical effects observed with more severe outcomes. Medical outcome categories were as follows: 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 systemic in nature than minor symptoms. Usually some form of treatment is indicated. Symptoms were not life-threatening and the patient had 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 lifethreatening 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

	< 6 Years		6-12 Years		13-19 Years		> 19 Years		Unknown*		Total	
Outcome	No.	Col %	No.	Col %	No.	Col %	No.	Col %	No.	Col %	No.	Col %
No effect	306,867	25.0	24,730	15.5	27,377	15.9	88,966	11.1	2,154	12.0	450,094	18.9
Minor effect	108,540	8.8	27,880	17.5	43,729	25.5	183,303	22.8	2,417	13.5	365,869	15.4
Moderate effect	9,690	0.8	4,274	2.7	17,863	10.4	78,347	9.8	591	3.3	110,765	4.7
Major effect	720	0.1	257	0.2	1,886	1.1	12,352	1.5	61	0.3	15,276	0.6
Death	23	0.0	6	0.0	76	0.0	1,041	0.1	7	0.0	1,153	0.0
No follow-up, nontoxic	298,268	24.3	29,562	18.5	11,405	6.6	58,115	7.2	2,087	11.7	399,437	16.8
No follow-up, minimal toxicity	461,429	37.6	63,643	39.9	47,733	27.8	280,191	34.9	5,401	30.2	858,397	36.1
No follow-up, potentially toxic	23,467	1.9	4,862	3.0	17,096	10.0	65,186	8.1	4,629	25.8	115,240	4.8
Unrelated effect	18,377	1.5	4,273	2.7	4,566	2.7	36,019	4.5	562	3.1	63,797	2.7
Total	1,227,381	51.6	159,487	6.7	171,731	7.2	803,520	33.8	17,909	0.8	2,380,028	100.0

*Includes unknown child and unknown age

made to determine the outcome of the exposure because the substance implicated 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 nonexposure: This outcome option was coded to designate cases where 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 non-exposure are excluded from this report.

Tables 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. Table 16 demonstrates the continuing decline in the use of ipecac-induced emesis in the treatment of poisoning.

Table 17A presents the most common substance categories involved in human exposures, listed by frequency of exposure. Tables 17B and 17C present similar data for children and adults, respectively, and show the considerable differences between pediatric and adult poison exposures. Table 18 lists the substance categories with the largest number of reported deaths; analgesics and antidepressants lead this list. While analysics are the most frequently involved substance category for both deaths and non-lethal human exposures, there is otherwise little correlation between the frequency of exposures to a substance and the number of deaths. Table 19 shows little variation over the past 20 years in the percentage of cases reported to TESS that are fatal poisonings and in the percentage of reported fatalities due to suicide. In contrast, the percentage of reported fatalities involving children under 6 years has declined. A breakdown of plant exposures is provided for those most commonly implicated (Table 20).

A summary of the 1,153 fatal exposures is presented in Table 21. Each of these cases was verified and abstracted by the reporting poison center. After extensive review, those exposures determined to be either "probably" or "undoubtedly" responsible for the fatality were included in Table 21. Abstracts of selected interesting or unusual cases are presented in the Appendix. Table 21 also reports the highest blood concentration for the responsible agents where that information is known. In addition, Table 21 identifies those cases reported indirectly to the poison center (10.8% of cases) and those cases in which a pre-hospital cardiac and/or respiratory arrest occurred (39% of cases). Deaths are cat-

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

Unintentional Intentional Other Adverse Reaction Unknown Total Outcome No. Col % No.			•		•								
Outcome No. Col % No. <		Uninten	tional	Intent	ional	Ot	her	Adverse	Reaction	Unk	nown	Tota	al
No effect 396,030 19.6 50,775 18.2 1,623 11.1 982 1.7 684 7.5 450,094 Minor effect 270,498 13.4 77,806 27.9 3,097 21.3 13,127 23.0 1,341 14.7 365,869 Moderate effect 50,680 2.5 49,842 17.9 985 6.8 7,846 13.7 1,412 15.4 110,765 Major effect 3,152 0.2 10,446 3.7 115 0.8 1,012 1.8 551 6.0 15,276 Death 139 0.0 914 0.3 8 0.1 22 0.0 70 0.8 1,153 No follow-up, nontoxic 392,747 19.4 4,241 1.5 1,088 7.5 1,118 2.0 243 2.7 399,437 No follow-up, minimal toxicity 800,333 39.6 30,342 10.9 4,863 33.4 21,367 37.4 1,492 16.3 </th <th>Outcome</th> <th>No.</th> <th>Col %</th>	Outcome	No.	Col %	No.	Col %	No.	Col %	No.	Col %	No.	Col %	No.	Col %
Minor effect270,49813.477,80627.93,09721.313,12723.01,34114.7365,869Moderate effect50,6802.549,84217.99856.87,84613.71,41215.4110,765Major effect3,1520.210,4463.71150.81,0121.85516.015,276Death1390.09140.380.1220.0700.81,153No follow-up, nontoxic392,74719.44,2411.51,0887.51,1182.02432.7399,437399,437No follow-up, minimal toxicity800,33339.630,34210.94,86333.421,36737.41,49216.3858,3973No follow-up, potentially toxic58,6472.949,32517.71,65511.43,3145.82,29925.1115,240Unrelated effect48,3712.44,9061.81,1237.78,34514.61,05211.563,797Total2,020,59784.9278,59711.714,5570.657,1332.49,1440.42,380,02810	No effect	396,030	19.6	50,775	18.2	1,623	11.1	982	1.7	684	7.5	450,094	18.9
Moderate effect50,6802.549,84217.99856.87,84613.71,41215.4110,765Major effect3,1520.210,4463.71150.81,0121.85516.015,276Death1390.09140.380.1220.0700.81,153No follow-up, nontoxic392,74719.44,2411.51,0887.51,1182.02432.7399,437390,437No follow-up, minimal toxicity800,33339.630,34210.94,86333.421,36737.41,49216.3858,397330,342No follow-up, potentially toxic58,6472.949,32517.71,65511.43,3145.82,29925.1115,240Unrelated effect48,3712.44,9061.81,1237.78,34514.61,05211.563,797Total2,020,59784.9278,59711.714,5570.657,1332.49,1440.42,380,02810	Minor effect	270,498	13.4	77,806	27.9	3,097	21.3	13,127	23.0	1,341	14.7	365,869	15.4
Major effect3,1520.210,4463.71150.81,0121.85516.015,276Death1390.09140.380.1220.0700.81,153No follow-up, nontoxic392,74719.44,2411.51,0887.51,1182.02432.7399,4377No follow-up, minimal toxicity800,33339.630,34210.94,86333.421,36737.41,49216.3858,3973No follow-up, potentially toxic58,6472.949,32517.71,65511.43,3145.82,29925.1115,240Unrelated effect48,3712.44,9061.81,1237.78,34514.61,05211.563,797Total2,020,59784.9278,59711.714,5570.657,1332.49,1440.42,380,02810	Moderate effect	50,680	2.5	49,842	17.9	985	6.8	7,846	13.7	1,412	15.4	110,765	4.7
Death1390.09140.380.1220.0700.81,153No follow-up, nontoxic392,74719.44,2411.51,0887.51,1182.02432.7399,4377No follow-up, minimal toxicity800,33339.630,34210.94,86333.421,36737.41,49216.3858,3973No follow-up, potentially toxic58,6472.949,32517.71,65511.43,3145.82,29925.1115,240Unrelated effect48,3712.44,9061.81,1237.78,34514.61,05211.563,797Total2,020,59784.9278,59711.714,5570.657,1332.49,1440.42,380,02810	Major effect	3,152	0.2	10,446	3.7	115	0.8	1,012	1.8	551	6.0	15,276	0.6
No follow-up, nontoxic392,74719.44,2411.51,0887.51,1182.02432.7399,437No follow-up, minimal toxicity800,33339.630,34210.94,86333.421,36737.41,49216.3858,39737.4No follow-up, potentially toxic58,6472.949,32517.71,65511.43,3145.82,29925.1115,240Unrelated effect48,3712.44,9061.81,1237.78,34514.61,05211.563,797Total2,020,59784.9278,59711.714,5570.657,1332.49,1440.42,380,02810.9	Death	139	0.0	914	0.3	8	0.1	22	0.0	70	0.8	1,153	0.0
No follow-up, minimal toxicity800,33339.630,34210.94,86333.421,36737.41,49216.3858,39737.4No follow-up, potentially toxic58,6472.949,32517.71,65511.43,3145.82,29925.1115,240Unrelated effect48,3712.44,9061.81,1237.78,34514.61,05211.563,797Total2,020,59784.9278,59711.714,5570.657,1332.49,1440.42,380,02810	No follow-up, nontoxic	392,747	19.4	4,241	1.5	1,088	7.5	1,118	2.0	243	2.7	399,437	16.8
No follow-up, potentially toxic58,6472.949,32517.71,65511.43,3145.82,29925.1115,240Unrelated effect48,3712.44,9061.81,1237.78,34514.61,05211.563,797Total2,020,59784.9278,59711.714,5570.657,1332.49,1440.42,380,02810	No follow-up, minimal toxicity	800,333	39.6	30,342	10.9	4,863	33.4	21,367	37.4	1,492	16.3	858,397	36.1
Unrelated effect 48,371 2.4 4,906 1.8 1,123 7.7 8,345 14.6 1,052 11.5 63,797 Total 2,020,597 84.9 278,597 11.7 14,557 0.6 57,133 2.4 9,144 0.4 2,380,028 10	No follow-up, potentially toxic	58,647	2.9	49,325	17.7	1,655	11.4	3,314	5.8	2,299	25.1	115,240	4.8
Total 2,020,597 84.9 278,597 11.7 14,557 0.6 57,133 2.4 9,144 0.4 2,380,028 10	Unrelated effect	48,371	2.4	4,906	1.8	1,123	7.7	8,345	14.6	1,052	11.5	63,797	2.7
	Total	2,020,597	84.9	278,597	11.7	14,557	0.6	57,133	2.4	9,144	0.4	2,380,028	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	39.5	7.1	2.9
>2 hours, ≤8 hours	25.5	22.3	8.4
>8 hours, ≤24 hours	17.1	30.2	25.4
>24 hours, ≤3 days	5.3	16.7	27.9
>3 days, ≤1 week	1.8	7.0	14.7
>1 week, ≤1 month	0.5	2.1	5.3
>1 month	0.2	0.6	1.3
Anticipated permanent	0.2	0.3	2.6
Unknown	10.0	13.9	11.5

egorized in Table 21 according to the agent deemed most responsible for the death by agreement of both the medical director of the reporting center and at least two additional clinical toxicologists. Additional agents implicated are listed below the primary agent.

The age distribution of reported fatalities is similar to that of past years. There were 23 fatalities reported in children <6 years of age, similar to the number reported in recent years. As a percentage of total fatalities, deaths in children <6 years of age have remained in the range of 2.0-2.7% over the last five years. The percentage of pediatric fatalities related to total pediatric calls has also remained essentially unchanged over the last five years at about 0.002%. By comparison, in 2002, 0.13% of all adult exposures reported were deaths. The reason for exposure in childhood deaths has shifted. While unintentional household poisonings due to curious toddlers were previously the predominant cause of these fatalities, in 2002 these deaths included 4 therapeutic errors, 3 environmental exposures, 3 adverse drug reactions, 3 malicious exposures, and 2 envenomations. Three deaths were related to carbon monoxide, three to cough/cold preparations, three to opioids, and two to household products (lamp oil and a detergent). All three malicious exposures involved the administration of antidepressants.

In the 6 to 12 year age range there were six deaths. In the 13-19 year age range there were 76 fatalities, similar to the 77 fatalities observed in 2001. This may signal the end of a steady five-year increase in reported adolescent fatalities. The most common reasons for the fatalities, as in previous years, were suicide (37) and intentional abuse (21). Only four fatalities in this age range were unintentional.

The most common classes of substance involved in the fatalities were analgesics, sedative/hypnotics/antipsychotics

TABLE 14. Decontamination and Therapeutic Interventions

Therapy	No. of Patients	%
Decontamination only	1,201,902	50.5
Observation only	286,384	12.0
No therapy provided	230,555	9.7
Decontamination and other therapy	200,999	8.4
Other therapy only (no decontamination)	114,516	4.8
Unknown if therapy provided/patient refused	345,672	14.5

TABLE 15. Therapy Provided in Human Exposure Cases

Therapy	No.
Decontamination	
Dilution/irrigation	1,121,885
Activated charcoal, single dose	142,157
Cathartic	54,004
Gastric lavage	25,307
Ipecac syrup	13,555
Other emetic	7,689
Activated charcoal, multidose	7,370
Whole bowel irrigation	2,689
Measures to Enhance Elimination	
Hemodialysis	1,400
Hemoperfusion	30
Other extracorporeal procedure	27
Specific Antidote Administration	
N-acetylcysteine (oral)	13,567
Benzodiazapines	12,791
Naloxone	10,783
Calcium	2,943
Flumazenil	2,043
N-acetylcysteine (IV)	1,480
Atropine	889
Antivenom (excluding Fab)	690
Fomepizole	678
Glucagon	640
Antivenom (Fab)	593
Phytonadione	578
Ethanol	498
Insulin	465
Folate	404
Digoxin immune FAB	346
Pyridoxine	344
Physostigmine	307
Hyperbaric oxygen	282
Cardiac pacing	185
Succimer	149
Methylene blue	121
Octreotide	114
Pralidoxime (2-PAM)	111
Deferoxamine	86
EDTA	82
Dimercaprol (BAL)	77
Sodium thisulfate	57
Sodium nitrite	34
Amyl nitrite	17
Penicillamine	8
Other interventions	
Alkalinization	7,533
Organ transplantation	14
ECMO	8

agents, antidepressants, stimulants and street drugs and cardiovascular agents (Table 18). Of the 380 fatalities where an analgesic was felt to be the primary cause of death, 47 were caused by acetaminophen alone as a single agent and 25 were caused by aspirin alone. Eighteen of the salicylate fatalities were acute and involved a single agent and had at least one premortem blood salicylate level. For those cases the mean level was 107 mg/dL (range 58-150 mg/dL). Six of these fatalities had maximum measured salicylate levels <100 mg/dL. Review of these cases suggests that dialysis is often instituted too late in the course of treatment to be

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
1994	1,926,438	54.1	2.7	6.8
1995	2,023,089	52.9	2.3	7.7
1996	2,155,952	52.8	1.8	7.3
1997	2,192,088	52.5	1.5	7.1
1998	2,241,082	52.7	1.2	6.8
1999	2,201,156	50.5	1.0	6.6
2000	2,168,248	52.7	0.8	6.7
2001	2,267,979	51.6	0.7	6.6
2002	2,380,028	51.6	0.6	6.3

useful. The number of deaths where oxycodone is the primary responsible agent continued to increase to 27 cases. There was also a substantial increase in the number of fatalities (75) where the primary substance was a longacting opioid (long-acting formulation, methadone or patches). This is an increase from the 49 such cases reported in 2001.

Substance	No.	%*
Analgesics	256,843	10.8
Cleaning substances	225,578	9.5
Cosmetics and personal care products	219,877	9.2
Foreign bodies	119,323	5.0
Sedatives/hypnotics/antipsychotics	111,001	4.7
Topicals	105,815	4.4
Cough and cold preparations	100,612	4.2
Antidepressants	99,860	4.2
Bites/envenomations	98,585	4.1
Pesticides	96,112	4.0
Plants	84,578	3.6
Food products, food poisoning	75,813	3.2
Alcohols	69,215	2.9
Antihistamines	69,107	2.9
Antimicrobials	63,372	2.7
Cardiovascular drugs	61,056	2.6
Hydrocarbons	59,132	2.5
Chemicals	54,623	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 (2,380,028) rather than the total number of substances.

 TABLE 17B.
 Substances Most Frequently Involved in Pediatric

 Exposures (Children Under 6 Years)

Substance	No.	%*
Cosmetics and personal care products	162,946	13.3
Cleaning substances	126,830	10.3
Analgesics	90,295	7.4
Foreign bodies	87,490	7.1
Topicals	85,970	7.0
Plants	62,306	5.1
Cough and cold preparations	62,107	5.1
Pesticides	50,415	4.1
Vitamins	45,239	3.7
Gastrointestinal preparations	38,817	3.2
Antimicrobials	33,764	2.8
Antihistamines	32,283	2.6
Arts/crafts/office supplies	31,873	2.6
Hormones and hormone antagonists	28,247	2.3
Hyrdrocarbons	21,738	1.8

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 exposures in children under six years (1,227,381) rather than the total number of substances.

The second most common class of drugs primarily responsible for fatalities was antidepressants, accounting for 133 deaths. Of these fatalities, 45 (34%) were due to a single agent, amitriptyline being the most common (12 cases). Non-tricyclic agents continue to account for a significant percentage of antidepressant deaths.

TABLE 17C.	Substances	Most	Frequently	Involved	in .	Adult
Exposures (>	>19 Years)					

Substance	No.	%*
Analgesics	110,215	13.7
Sedatives/hypnotics/antipsychotics	84,084	10.5
Cleaning substances	77,478	9.6
Antidepressants	65,236	8.1
Bites/envenomations	62,651	7.8
Food products, food poisoning	42,249	5.3
Alcohols	41,924	5.2
Cosmetics and personal care products	38,584	4.8
Cardiovascular drugs	37,150	4.6
Pesticides	36,465	4.5
Chemicals	31,854	4.0
Hydrocarbons	28,556	3.6
Fumes/gases/vapors	28,374	3.5
Anticonvulsants	23,597	2.9
Antihistamines	22,953	2.9
Stimulants and street drugs	22,844	2.8
Antimicrobials	20,558	2.6
Hormones and hormone antagonists	19,742	2.5
Cough and cold preparations	16,739	2.1
Plants	12,288	1.6

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 exposures in adults over 19 years (803,520) rather than the total number of substances.

 TABLE 18.
 Categories with Largest Numbers of Deaths

Category	No.	% of All Exposures in Category
Analgesics	659	.257
Sedative/hypnotics/psychotics	364	.328
Antidepressants	318	.318
Stimulants and street drugs	242	.528
Cardiovascular drugs	181	.296
Alcohols	139	.200
Chemicals	50	.091
Anticonvulsants	65	.181
Gases and fumes	44	.106
Antihistamines	71	.103
Muscle relaxants	52	.260
Hormones and hormone antagonists	33	.062
Cleaning substances	33	.013
Automotive products	30	.213
Cough and cold preparations	22	.022
Pesticides	18	.019

NOTE: Tables 18, 22A and 22B are based on an unlimited number of substances coded per exposure, while Table 21 only includes up to 3 substances per case.

The third most common class of drugs primarily responsible for fatalities was stimulants and street drugs, accounting for 126 deaths. There was an increase in the number of heroin fatalities, but the number of deaths associated with amphetamine, methamphetamine, and MDMA remained constant.

The vast majority (79%) of reported fatalities in 2002 were the result of an intentional action, similar to that observed in past years. The percentage of fatalities attributed to other reasons likewise remained essentially

TABLE 19. 20-Year Comparisons of Fatality Data

	Total F	atalities	talities Suicides		Pediat (< 0	ric Deaths 6 years)
Year	No.	% of Cases	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
1994	766	0.040	410	53.5	26	3.4
1995	724	0.036	405	55.9	20	2.8
1996	726	0.034	358	49.3	29	4.0
1997	786	0.036	418	53.2	25	3.2
1998	775	0.035	421	54.3	16	2.1
1999	873	0.040	472	54.1	24	2.7
2000	920	0.042	476	51.7	20	2.2
2001	1,074	0.047	552	51.4	26	2.4
2002	1,153	0.048	629	54.6	23	2.0

TABLE 20.	Frequency of	Plant Exposures	by Plant Type
-----------	--------------	-----------------	---------------

Botanical Name	Common Name	Frequency
Spathiphyllum spp.	Peace lily	3,602
Philodendron spp.	Philodendron	2,880
Euphorbia pulcherrima	Poinsettia	2,620
<i>llex</i> spp.	Holly	2,427
Phytolacca americana	Pokeweed, inkberry	1,863
Ficus spp.	Rubber tree, weeping fig	1,612
Toxicodendron radicans	Poison ivy	1,500
Dieffenbachia spp.	Dumbcane	1,324
Crassula spp.	Jade plant	1,146
Epipremnum aureum	Pothos, devil's ivy	1,083
Capsicum annuum	Pepper	1,049
Rhododendron spp.	Rhododendron, azalea	1,047
Chrysanthemum spp.	Chrysanthemum	869
Nerium oleander	Oleander	847
Schlumbergera Bridgesii	Christmas cactus	841
Hedera helix	English ivy	769
Eucalyptus spp.	Eucalyptus	727
<i>Malus</i> spp.	Apple, crabapple (plant parts)	703
Nandina domestica	Heavenly bamboo	694
Saintpaulia ionantha	African violet	685

NOTE: This table provides the frequency of involvement of plants in exposures reported to poison centers with no correlation with severity of toxicity. Several of the plants on the list pose little, if any, ingestion hazard.

unchanged (Table 8). As in previous years a disturbing number of fatalities (54) were the result of therapeutic errors. There were also 22 deaths related to adverse drug reactions. As in 2001, no deaths were reported related to food poisoning.

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 2,380,028 exposures, presented by substance categories. Table 22A focuses on nonpharmaceuticals; Table 22B presents drugs. Of the 2,688,520 substances logged in Tables 22A and 22B, 52.3% were nonpharmaceuticals and 47.7% were pharmaceuticals. The reason for the exposure was intentional for 29.4% of pharmaceutical substances implicated compared with only 5.0% of nonpharmaceutical substances. Correspondingly, treatment in a health care facility was provided in a higher percentage of exposures to pharmaceutical substances (38.7%) compared with nonpharmaceutical substances (16.7%). Pharmaceutical exposures also had more severe outcomes. Of substances implicated in fatal cases, 85.2% were pharmaceuticals, compared with only 47.7% of substances reported in nonfatal cases. Similarly, 84.4% 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 health care providers who provided comprehensive data to the poison centers for inclusion in this database. We especially acknowledge the dedicated efforts of the Specialists in Poison Information who meticulously coded more than 2.3 million poison exposures in 2002.

TABLE 21.	Summar	/ of Fatal	Exposures	Reported	to TESS	in 2002

Case	Age	Substances	Chronicity	Boute	Reason	Blood	Interval after Exposure
NONPHAR	MACEUTICAL	LS					
Adhesives/	glues		•	1.1.1.1.1.1.1	0		
1 ap 2 p	35 yr 38 yr	adhesive (toluene) contact cement (toluene/xylene)	A U	Inhalation	Occ Int abuse		
Alcohols							
3	49 yr	canned heat (ethanol/methanol)	A	Ingestion	Int suicide	ethanol 161 mg/dL	
4 aip	19 yr	ethanol	A	Ingestion	Int abuse	579 mg/dL	
5	20 yr	ethanol	A	Ingestion	Int unk	-	
6 ap	30 yr	ethanol	A	Ingestion	Int abuse	455 mg/dL	
7	48 yr	ethanol	С	Ingestion	Int abuse	320 mg/dL	
8 a	53 yr	ethanol	A/C	Ingestion	Int suicide	769 mg/dL	
9	56 yr	ethanol	A/C	Ingestion	Int abuse	257 mg/dL	
10	56 yr	ethanol	С	Ingestion	Int abuse	214 mg/dL	
11	Unk	ethanol	U	Ingestion	Int unk	468 mg/dL	
12	54 yr	ethanol	A/C	Ingestion	Int abuse	445 mg/dL	
		acetaminophen					
13	51 yr	ethanol acetaminophen	A/C	Ing/Inh	Int abuse	73.7 μg/mL	
4.4	00	cocaine	•	la senti se	lat substate		
14	36 yi	benzodiazepine barbiturate	A	ligeston			
15 p	45 vr	ethanol	А	Ingestion	Int suicide	380 mg/dL	
		brake fluid other chemical		3.4.4			
16 p	38 yr	ethanol	A/C	Ingestion	Int suicide		
17	10 \/r	othanal	٨	lpg/lph/Llpk	Int quigido		
17	TO yi	cocaine amphetamine ^A	~	Ing/Inn/Onk			
18 ip	35 yr	ethanol	U	Ingestion	Int abuse		
19 p	29 yr	ethanol	А	Ingestion	Int suicide	489 mg/dL	
20	40's yr	ethanol opioid	A/C	Ingestion	Int unk		
21	45 yr	ethanol paroxetine	A/C	Asp/Ing	Int suicide	250 mg/dL	
22 ip	41 yr	ethanol	А	Ingestion	Int unk	250 mg/dL	
		propoxyphene		-		$0.08 \ \mu g/mL$ §	
23	45 yr	ethanol trazodone	А	Ingestion	Int suicide	214 mg/dL	10 h
04	00	risperidone	0	la a /Llala	lat shuns		
24	So yr		U	ing/onk	int abuse		
25	59 yr	icopropagal	NC	Indection	Int abuse		
20 26 p	21 vr	mothanal	AVC II	Ingestion	In abuse		
20 p 27	37 yr	methanol	0	Ingestion		170 mg/dl	
28 n	38 yr	methanol	â	Ingestion	In abuse	500 mg/dL	
20 p	/1 vr	methanol	۵ ۵	Ingestion	Unknown	200 mg/dLg	
20 P	46 yr	methanol	Â	Indestion	Int suicide	105 mg/dL	
31	47 yr	methanol	ii ii	Indestion	Linknown	100 mg/dE	
30	47 yi 48 yr	methanol	۵ ۵	Ingestion	Int suicide	62 mg/dl	
33	74 yr	methanol	Â	Indestion	Linknown	256 mg/dL	
34	>19.vr	methanol	Δ	Indestion	Unknown	200 mg/dE	
35	20 yr	methanol	~	Ingestion	Int suicide		
55	23 yi	alprazolam acetaminophen/hydrocodone	~	ligeston	int suicide		
36	40's yr	methanol	А	Ingestion	Int suicide		
27	10 10	eurylene giycol	٨	Indoction	Int quicido	08 mg/d	
51	4∠ yî	ethylene glycol	~	ingestion		150 mg/dL	
38	39 yr	unknown alcohol	A	Ingestion	Int abuse		h

See also cases 56, 80 thru 82, 93, 94, 104, 126, 214, 221, 224, 289, 290, 295 thru 299, 308, 315, 342, 377, 378, 391, 406, 408, 409, 413, 451, 475, 481, 521 thru 524, 585, 623, 629, 657 thru 661, 670, 685, 703, 731, 735, 745, 746, 764, 765, 768, 796, 829, 850, 860, 861, 874, 887, 890, 892, 897, 903, 916, 928, 945, 960, 973, 980, 984, 998, 1009, 1018, 1057 thru 1061, 1078, 1107 thru 1110, 1116, 1120, 1146 (ethanol); 66, 112, 746 (isopropanol).

Automotive	e/aircraft/boat	products				
39 p	19 yr	antifreeze (ethylene glycol)	А	Ingestion	Int suicide	187 mg/dL
40	21 ýr	antifreeze (ethylene glycol)	A	Ingestion	Int suicide	0
41	23 yr	antifreeze (ethylene glycol)	A	Ingestion	Int suicide	125 mg/dL
42	24 yr	antifreeze (ethylene glycol)	А	Ingestion	Int suicide	5 mg/dL
43	28 yr	antifreeze (ethylene glycol)	A	Ingestion	Int suicide	192 mg/dL
44	36 yr	antifreeze (ethylene glycol)	А	Ingestion	Int suicide	40 mg/dL
45 p	40 yr	antifreeze (ethylene glycol)	А	Ingestion	Int suicide	0
46	42 yr	antifreeze (ethylene glycol)	С	Ingestion	Int suicide	
47	43 yr	antifreeze (ethylene glycol)	A	Ingestion	Int suicide	205 mg/dL
48 a	58 yr	antifreeze (ethylene glycol)	А	Ingestion	Int suicide	-
49	60 yr	antifreeze (ethylene glycol)	A	Ingestion	Int suicide	31 mg/dL
50	72 yr	antifreeze (ethylene glycol)	A	Ingestion	Int suicide	114 mg/dL
51	78 yr	antifreeze (ethylene glycol)	А	Ingestion	Int suicide	437 mg/dL
52	21 yr	antifreeze (ethylene glycol) acetaminophen	А	Ingestion	Int suicide	Ũ
53 p	54 yr	antifreeze (ethylene glycol) chlorpheniramine	U	Ing/Unk	Int suicide	
		cocaine				

5 h

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	after Exposure
54	89 vr	antifreeze (ethylene glycol)	Α	Ingestion	Int suicide	970 mg/dl	4 h
55	43 yr	doxazosin antifreeze (ethylene glycol) drain opener	A	Ingestion	Int suicide	or oring, az	4.11
56 a	45 yr	hydrochloric acid antifreeze (ethylene glycol) ethanol	А	Ingestion	Int suicide	916 mg/dL 29 mg/dl	1 h
57	23 yr	antifreeze (ethylene glycol)	А	Ing/Unk	Unknown	20 mg/dL	1.11
58	49 yr	marijuana antifreeze (ethylene glycol)	А	Ingestion	Int suicide	74.6 mg/dL	20 h
59 p	59 yr	tiagabine antifreeze (ethylene glycol)	А	Ingestion	Int suicide	136 mg/dL§ glycolic acid 200 mg/dL§	
60	58 yr	unknown drug antifreeze (ethylene glycol) valproic acid	А	Ingestion	Int suicide	16 mg/dL 172 μg/mL	24 h
61 62 p	52 yr 25 yr	brake fluid (methanol) carburetor cleaner (ketones/methylene chloride/toluene)	A U	Ingestion Ingestion	Int suicide Int suicide		
63 64 p	>19 yr 41 yr	gas line antifreeze (methanol) gas line antifreeze (methanol)	U A	Ingestion Ing/Unk	Unknown Int suicide		
65 a	37 yr	unknown automotive product	А	Ingestion	Int suicide	136 mg/dL	12 h
66	45 yr	(methanol) windshield washer fluid (methanol) isopropanol	С	Ingestion	Int suicide	131 mg/dL	
See also cas	ses 15 (brake	cologne e fluid); 888 (carburetor cleaner (methano	ol/methylene chlo	oride/toluene)).			
Bites and en	venomation	s					
67 a	28 yr	bat	А	Bite/sting/Derm	Bite/sting		
68	3 yr	Crotalus adamanteus	A	Bite/sting	Bite/sting		
69 a 70	43 yr 2 vr	scorpion. Centruroides species	A	Bite/sting Bite/sting	Bite/sting Bite/sting		
71 ap	54 yr	Triatoma (cone noses or kissing	A	Bite/sting	Bite/sting		
See also cas	se 1019 (Cer	ntruroides sculpturatus).					
Chemicals							
72 a	44 yr	acrylamide	A	Ingestion	Int suicide		
73 a 74	29 yr 33 yr	black liquor (sodium hydroxide/	A	Derm/Ocu	Occ		
75	53 yr	sodium suifide) black liquor (sodium hydroxide/ sodium sulfide)	А	Dermal	Осс		
76 77 p	50 yr	corrosive chemical	A	Ingestion	Int suicide		
77 p 78 p	43 yr 59 yr	cyanide	A	Ingestion	Int suicide		
79 ap	65 yr	cyanide	Α	Ingestion	Int suicide	1.68 μg/mL	2 h
80 p	44 yr	cyanide ethanol	A	Ingestion	Int suicide	3.6 μg/mL 210 mg/dl	
81 p	49 yr	cyanide	А	Ingestion	Int suicide	2 to mg/de	
82	55 yr	ethanol cyanide	А	Ingestion	Int suicide		
00	25 yr	ethanol	^	Ingestion	lat quiaida	275 mg/dL	
03	25 yr	ethylene glycol	A	Ingestion	Int suicide	glycolic acid 135 mg/dL	
84	29 yr	ethylene glycol	A	Ingestion	Int suicide	108.1 mg/dL	
86	41 yr	ethylene glycol	Ä	Ingestion	Unknown	9.7 mg/dL	
87	42 yr	ethylene glycol	A	Ingestion	Int suicide	130 mg/dL	
88	51 yr	ethylene glycol	A	Ingestion	Unknown	glycolic acid 185 mg/dL	
89 90 p	57 yr	ethylene glycol	U	Ingestion	Unknown	34.2 mg/dL	
90 p 91	41 yr	ethylene glycol	Â	Ingestion	Int suicide	92 mg/dL	
92	37 yr	acetaminophen ethylene glycol	А	Ingestion	Int suicide	58 mg/dL	
93	46 vr	brodifacoum ethylene glycol	А	Ingestion	Int suicide	79 mg/dl	13 h
	40 yi	diazepam		ingeotion		170 ng/mL§ nordiazepam 130 ng/mL§	10 1
94	42 yr	etnanor ethylene glycol ethanol	U	Ingestion	Int suicide	60 mg/dL 19.6 mg/dL 215 mg/dL	12 n
95	53 yr	amitriptyline ethylene glycol lithium	А	Ingestion	Int suicide		
96	22 yr	orlistat ^A ethylene glycol	A/C	Ingestion	Int suicide	20 mg/dL	
		toluene olanzapine ^A					
97 a	68 yr	formaldehyde	A	Other	Ther err		
98 99	≥19 yr 42 vr	hydrochloric acid	A	Ingestion	Int suicide		
100	37 ýr	hydrofluoric acid	A	Ingestion	Int suicide		

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
101	35 yr	hydrofluoric acid, 10%/phosphoric	А	Ingestion	Int suicide		
102	60 yr	acid, 5% hydrofluoric acid, 5%/phosphoric	А	Ingestion	Unint misuse		
103 p	34 yr	acid, 25% hydrofluoric acid, 5-10%/sulfuric	А	Ingestion	Int suicide		
104	30 yr	acid, 20-25% hydrofluoric acid, 14%/phosphoric acid, 7.5%	А	Ingestion	Int suicide		
105	10	ethanol	•	Davies /lask	0	246 mg/dL	
105 106 ain	49 yr 35 yr	netnyi bromide	A	Linknown	Ucc	1 200 µg/ml 8	
100 aip	00 yi	cocaine	7	Onknown	Onknown	0.037 µg/dL§	
107	32 yr	propylene glycol	А	Unknown	Int suicide	441.44 mg/dL§	
108 a	59 yr	sodium azide	A	Ingestion	Int suicide		
109 a	45 yr	sodium azide	A	Derm/Inh	Occ		
110	50	sodium hydroxide		A //	1.1.1.1.1.1.1.		
See also cas hydroxide); (52 yr ses 326 (bori 339 (unknow	sultrunc acid ic acid); 154 (cyanide); 36, 37, 300, 301 (n acid).	A (ethylene glycol);	Asp/ing ; 55 (hydrochloric ac	int suicide sid); 172 (hydrogen cyar	nide); 15 (other chemical); 109 (sodiu	m
Cleaning sul	bstances (ho	usehold)	^	Aon/Ing	L Internettin		
ттар 112 а	34 yr 40 yr	bleach, household (hypochlorite)	A	Asp/ing Asp/Derm/Ing/	Malicious		
112 a	40 yi	isopropanol	~	Inh/Ocu	Malicious		
113 a	84 vr	detergents (anionic/nonionic)	А	Asp/Ing	Unint aen		
114	93 vr	detergents (anionic/nonionic)	A	Dermal	Unint misuse		
115	49 yr	drain opener	А	Ingestion	Unint misuse		
116	26 yr	drain opener (alkali) diphenoxylate/atropine	A	Asp/Ing	Int suicide		
117	64 yr	drain opener (alkali/ammonia/ thioglycolates)	А	Ingestion	Int suicide		
118 a	27 yr	drain opener (sodium hydroxide)	Α	Ingestion	Int suicide		
119	49 yr	drain opener (sodium hydroxide)	А	Ingestion	Int suicide		
120	52 yr	drain opener (sulfuric acid)	A	Ingestion	Int suicide		
121 a	42 yr	drain opener (sulfuric acid) aspirin	A	Ingestion	Int suicide		
122	63 yr	drain opener (sulfuric acid, 94%)	A	Ingestion	Int suicide		
123 aip	13 mo	hand dishwashing detergent	A	Ingestion	Unint gen		
124	/1 yr	hand dishwashing detergent	A	Asp/Ing	Unint gen		
125	57 yr	nydrochloric acid	A	Ingestion	Int suicide		
120	88 yr	household cleaning agent ethanol	А	Ingestion	Int suicide		
127	59 yr	hydrogen chloride/nonionic surfactants sodium hypochlorite	A	Ingestion	Int suicide		
128	88 vr	pine oil	А	Ingestion	Unint misuse		
129	53 yr	pine oil/isopropanol cleaner	A	Ingestion	Int suicide		
130 p	80 yr	pine oil/isopropanol cleaner	А	Ingestion	Int unk		
131 p	69 yr	rust remover (sodium bisulfite/sodium hydrosulfite)	A	Ingestion	Int suicide	1 500 ng/ml 6	
132	77 yr	sodium hydroxide/sodium	А	Ingestion	Unint gen	1,000 fig/file§	
133	>19 yr	sodium hydroxide/sodium nitrate/ sodium chloride sodium hydroxide/sodium	A	Ingestion	Unknown		
134	50 yr	hypochlorite toilet bowl cleaner (hydrochloric	А	Ingestion	Int suicide		
		acid) acetaminophen/diphenhydramine					
135	40 yr	toilet bowl cleaner (hydrochloric acid, 15-20%) toilet bowl cleaner (ammonium chloride salts) wrinkle remover (sodium lauryl culted/(copropact))	A	Ingestion	Int suicide		
136	17 yr	suirate/isopropanoi) toilet bowl cleaner (phosphoric	А	Ingestion	Int suicide		

Industrial cleaners See also case 688 (industrial cleaner (anionic/nonionic/glycol ethers)).

Cosmetics/per	sonal care p	products				
137 a 138 p	75 yr 51 yr	denture cleaner toothpaste (fluoride) cocaine	A A	Derm/Ing Ingestion	Unint misuse Int suicide	0.04 μg/mL§ benzoylecgonine 3.32 μg/mL§
See also case	66 (cologne).				
Essential oils 139	89 yr	unknown essential oil	A	Asp/Ing	Unint misuse	
Fertilizers See also case	67 (plant fo	od).				

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
Foreign bo	odies/toys/misc	cellaneous 607 622 689 833 853 857 980	(activated charcoal)				
		, 667, 622, 666, 666, 666, 667, 666	(activated enarceal).				
140 ap	25 vr	argon	А	Inhalation	Occ		
141 ap	43 yr	argon	A	Inhalation	Occ		
142 ap	60 yr	carbon dioxide	A	Inhalation	Int suicide		
143 lp 144 n	13 yr 16 yr	carbon monoxide		Innalation	ENV Int suicide	57 %	
145 ip	22 yr	carbon monoxide	Â	Inhalation	Occ	57 /0	
146 p	24 yr	carbon monoxide	A	Inhalation	Env	30 %	
147 p	30 yr	carbon monoxide	A	Inhalation	Env Int quicido	12 0 %	
140 p 149 p	30 yr 45 yr	carbon monoxide	A	Inhalation	Unknown	43.9 %	
150 p	50 yr	carbon monoxide	A	Inhalation	Env		
151 p	70's yr	carbon monoxide	A	Inhalation	Env	72.3 %§	
152 p 153 p	80 yr ∖19 yr	carbon monoxide	A	Inhalation	Env		
153 p 154	50 vr	carbon monoxide	A	Inhalation	Env	32 %	
		cyanide					
155 ip	16 yr	carbon monoxide	A	Inhalation	Int suicide	71.1 %§	
156 in	22.11	marijuana	٨	lng/lnh	Int quioido	70.2.048	
100 lþ	32 yi	promethazine	A	ing/init	Int Suicide	120 ng/mL§	
157 p	10 mo	carbon monoxide/smoke	А	Inhalation	Env	11.1 %	1.75 h
158 p	2 yr	carbon monoxide/smoke	A	Inhalation	Env	43 %	
159 p	4 yr	carbon monoxide/smoke	A	Inhalation	Env	16.0.%	
161 n	7 vr	carbon monoxide/smoke	A	Inhalation	Env	60 %	
162 ip	21 yr	carbon monoxide/smoke	A	Inhalation	Env	73 %§	
163 ip	27 yr	carbon monoxide/smoke	A	Inhalation	Env	70 %§	
164 ip	44 yr	carbon monoxide/smoke	A	Inhalation	Int suicide	37 %§	
165 p 166 p	55 yr 60 yr	carbon monoxide/smoke	A	Inhalation	Env	49.5 % 52 %	
167 p	60's yr	carbon monoxide/smoke	A	Inhalation	Env	46 %	
168 p	65 yr	carbon monoxide/smoke	A	Inhalation	Env	25 %	
169 ip	68 yr	carbon monoxide/smoke	A	Inhalation	Env	50 %§	
170 171 n	80 yr ⇒19 yr	carbon monoxide/smoke	A	Innalation	Env	41 %	
172 p	33 yr	carbon monoxide/smoke	A	Inhalation	Env	21 %	
		hydrogen cyanide			_		
173 p	45 yr	chloramine	A	Inhalation	Occ		
174 175 in	5 i yr 19 yr	chiorine bydrogen sulfide	A	Innalation			
176 ip	25 yr	hydrogen sulfide	A	Inhalation	Occ		
177 p	43 yr	hydrogen sulfide	A	Asp/Ing/Inh	Occ	sulfide 0.9 μ g/mL§	
178 p	45 yr	hydrogen sulfide	A	Inhalation	Occ		
179 p 180	49 yr 70 yr	hydrogen sulfide	A	Innalation	UCC Env		
181 ip	34 yr	unknown fume	Ă	Inhalation	Unint misuse		
182 ip	36 yr	unknown fume	A	Inhalation	Unint misuse		
See also c	case 195 (carbo	on monoxide).					
Heavy me	tals						
183 i	89 yr	arsenic	U	Unknown	Malicious		
184 a	62 yr	cadmium	C	Unknown	Unknown	74 ng/mL§	
185 ap	19 mo	manganese/barium	A	Derm/Ing	Unint gen	manganese 390 ng/mL§	
						bandin 700 fig/files	
Hydrocarb	oons						
186 p	21 yr	butane	A	Inhalation	Int abuse		
188 p	15 yr	chlorofluorocarbon	Â	Inhalation	Int unk		
189 ap	62 yr	chlorofluorocarbon	А	Inhalation	Int suicide		
190 p	34 yr	difluoroethane	C	Inhalation	Int abuse		
191 aip	13 yr	gasoline	A	Inhalation	Int unk		
192 a	27 vr	hydrocarbon	Â	Asp/Ing Asp/Derm/	Occ		
		.,		Ing/Inh			
194 a	9 mo	lamp oil	A	Asp/Ing	Unint gen		
195	53 yr	mineral spirit solvent	A	Derm/Inh	Occ	22.5.04.8	
196 a	53 vr	paint thinner	u	Inhalation	Int abuse	22.5 709	
197 p	17 yr	tetrafluoroethane	Ŭ	Inhalation	Int abuse		
198	26 yr	toluene	U	Unknown	Int unk		
See also c	cases 706 (mot	cor oil); 96 (toluene).					
Mushroom	าร						
199 a	78 yr	Amanita phalloides	A	Ingestion	Unint misuse		
200	50 yr	Amanita species	A	Ingestion	Unint misuse		
201 a 202 n	75 yr 19 yr	monometnyinydrazine Psilocybin species	A	Ingestion	Unint misuse	nsilocin 200 na/ml 8	
203 a	68 vr	unknown mushrooms	A	Ingestion	Unint misuse	p300001200 Hg/HLS	
D				0			
Paints and	a stripping agei	nīs naint (oil-base)	Δ	Inhalation	Int abuse		
205	74 yr	paint stripping agent	Â	Ingestion	Int suicide		
206 aip	27 yr	spray paint	A/C	Inhalation	Int abuse	toluene 1.3 μ g/mL§	
						acetone 0.06 μg/mL§	

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
Pesticides: 207	Fumigants 40 yr	sulfuryl fluoride organophosphate	U	Unknown	Unknown		
Pesticides:	Herbicides (i	ncl. algaecides, defoliants, desiccants	, plant growth regu	lators)			
208 209 a	31 yr 43 yr	bentazone chlorphenoxyacetic acid diphenhydramine	A A	Ingestion Ingestion	Int suicide Int suicide		
210 a	80 yr	glyphosate	A	Ingestion	Int suicide		
211 a 212	56 yr	paraquat	A	Ingestion	Unint misuse	33.7 μg/mL	
Pesticides: 213 a	Insecticides 68 yr	(incl. insect growth regulators, molluso acephate	cicides, nematicides A	s) Ingestion	Int suicide		
214 ap	79 yr	nortriptyline calcium cyanide	А	Ingestion	Int suicide	2.49 μg/mL§	
215 a	17 vr	ethanol dinitrophenol	A/C	Indestion	Int suicide	150 mg/dL§	
016 p	50.17	caffeine	^	Ingestion	Int ouioido		
216 p 217 ap	40 yr	organophosphate	A	Derm/Ing	Unknown		
218	53 yr	organophosphate insecticide	A	Ing/Unk	Env		
See also ca	ise 207 (orga	inopriospriate).					
Pesticides:	Rodenticides	brodifacoum	A/C	Indestion	Int suicide		
220 a	38 yr	brodifacoum	A	Ingestion	Int suicide		
221 p	39 yr	strychnine	U	Ing/Unk	Unknown	00 m m / - 0	
		ventafaxine ^A				60 mg/dLg	
See also ca	ises 92 (brod	lifacoum); 904 (rodenticide).					
Plants							
222 ap 223 n	13 yr 13 yr	Conium maculatum Datura stramonium	A	Ingestion	Unint misuse		
		Datara stranonium	~	ingestion	int abuse		
Polishes an 224 p	d waxes 25 yr	polish (isobutane/mineral oil) marijuana ethanol	A	Ing/Inh	Int abuse		
Swimming	pool/aquariur	m acidic pool cleaner	Δ	Indestion	Int suicide		
PHARMACE			~	lingestion			
Analgesics			-		_		
226 227	11 yr 19 yr	acetaminophen	C A	Ingestion	Ther err	49 μg/mL 171 μg/ml	
228	22 yr	acetaminophen	A	Ingestion	Int suicide	298 µg/mL	
229	22 yr	acetaminophen	C	Ingestion	Int misuse	347 ug/ml	
230	29 yr 30 yr	acetaminophen	Â/C	Ingestion	Int misuse	$73 \mu\text{g/mL}$	
232	30 yr	acetaminophen	U	Ingestion	Int suicide	2.2 μg/mL	
233	30 yr	acetaminophen	A/C	Ingestion	Int misuse	25 μg/mL	
234	30 yr 30 yr	acetaminophen	A	Ingestion	Int suicide	200 µg/mL	29.5 h
236 a	31 yr	acetaminophen	U	Ingestion	Unknown	24 μg/mL	
237	31 yr	acetaminophen	C	Ingestion	Int misuse	131 μg/mL	15 h
230	32 yr 32 yr	acetaminophen	Ŭ	Ingestion	Int misuse	41 μg/mL	1511
240	33 yr	acetaminophen	Ă	Ingestion	Int suicide	196 µg/mL	33 h
241	34 yr	acetaminophen	C	Ingestion	Int unk	62 μg/mL	
242 243 a	35 yr 35 vr	acetaminophen	AVC	Ingestion	Int suicide	266 µg/mL	48 h
244 p	36 yr	acetaminophen	U	Ingestion	Unknown	56 μg/mL	
245	36 yr 37 yr	acetaminophen	U	Ingestion	Int suicide	11 μg/mL 15 μg/ml	
240	38 yr	acetaminophen	č	Ingestion	Int misuse	$36 \mu g/mL$	48 h
248	39 yr	acetaminophen	A	Ingestion	Int suicide	79 µg/mL	19 h
249 250	39 yr 40 yr	acetaminophen	A A/C	Ingestion	Unknown Int suicide	64 ug/ml	
251	41 yr	acetaminophen	Ŭ	Ingestion	Unknown	6.6 μg/mL	
252	42 yr	acetaminophen	U	Ingestion	Int suicide		10.1
253 254	42 yr 42 yr	acetaminophen	A	Ingestion	Int suicide	174 μg/mL 117 8 μg/ml	19 n
255	44 yr	acetaminophen	Ă	Ingestion	Int suicide	105 µg/mL	
256	44 yr	acetaminophen	A	Ingestion	Int suicide		
257 258	45 yr 45 yr	acetaminophen	Ŭ	Ingestion	Int suicide		
259 a	45 yr	acetaminophen	Ū	Ingestion	Int suicide	1,208 µg/mL	
260 261	45 yr	acetaminophen	A	Ingestion	Int suicide	102a/ml	
262	47 yr 47 vr	acetaminophen	U	Ingestion	Int unk	118 μα/mL	
263	47 yr	acetaminophen	Ŭ	Ingestion	Int suicide	89 µg/mL	
264 265	48 yr	acetaminophen	C	Ingestion	Int misuse	136 μg/mL 674α/ml	
266	57 yr	acetaminophen	ĉ	Ingestion	Ther err	or 4 μg/m∟	
267	62 ýr	acetaminophen	A	Ingestion	Int suicide	_75 μg/mL	18.5 h
268 269	67 yr	acetaminophen acetaminophen	A C	Ingestion	Int suicide	527 μg/mL 85 μg/ml	
270	74 yr	acetaminophen	Ă	Ingestion	Int suicide	233 µg/mL	24 h
271	88 yr	acetaminophen	A	Ingestion	Int suicide	779 µg/mL	

C 250	Age	Substances	Chronicity	Poute	Beacon	Blood	Interval after Exposure
	Age	Substances	Onionicity	Houte	11643011	Concentrations	
272 273	>19 yr 35 yr	acetaminophen acetaminophen acetaminophen/antihistamine/	C	Ingestion Ingestion	Int misuse Ther err	46.4 µg/mL	
274	42 yr	decongestant acetaminophen acetaminophen/aspirin/caffeine	A/C	Ingestion	Int suicide	76 μ g/mL	
275	29 yr	acetaminophen acetaminophen/dextromethorphan/	А	Ingestion	Int suicide	18 µg/mL	32 h
276	25 yr	doxylamine/psedudoephedrine acetaminophen	С	Ingestion	Int misuse		
277	16 yr	acetaminophen/diphennydramine acetaminophen acetaminophen/hydrocodone	А	Ingestion	Int suicide	126 µg/mL	8 h
278	36 yr	acetaminophen/oxycodone ^A acetaminophen acetaminophen/bydrocodone	A	Ingestion	Int suicide	141 μg/mL	
279	40's yr	amitriptyline/perphenazine acetaminophen acetaminophen/hydrocodone	С	Ingestion	Int suicide	337 μg/mL	
280	25 yr	fluoxetine ^A acetaminophen acetaminophen/bydrocodope	A/C	Ingestion	Unknown		
281	31 yr	other cough/cold medication ^A acetaminophen alprazolam	А	Ing/Unk	Int suicide	50 μg/mL	33 h
282	73 yr	cocaine acetaminophen alprazolam	A/C	Ingestion	Int suicide	320 µg/mL	
283 p	40 yr	lorazepam [~] acetaminophen amitriptyline	A/C	Ingestion	Int suicide	17 μg/mL	
284	26 yr	acetaminophen	С	Ingestion	Int misuse	5 mg/dl	
285	38 yr	acetaminophen	С	Ingestion	Int misuse	61.7 μg/mL 13 mg/dL	
286	40 yr	acetaminophen	С	Ingestion	Ther err	10.3 μg/mL 10.9 mg/dL	
287	51 yr	acetaminophen aspirin	А	Ingestion	Int suicide	60 μg/mL 14.9 mg/dL	
288	33 yr	acetaminophen aspirin diphonbydramino	A	Ingestion	Int suicide	9 μg/mL§ 16.5 mg/dL 0.12 μg/mL δ	
289	33 yr	acetaminophen aspirin ethanol	С	Ingestion	Int misuse	50.5 μg/mL 40.3 mg/dL	
290	43 yr	acetaminophen aspirin ethanol	A	Ingestion	Int suicide	218 µg/mL 11 mg/dL 44 mg/dL	
291	69 yr	acetaminophen benzodiazepine	А	Ingestion	Int suicide	383 µǵ/mL	
292	15 yr	acetaminophen caffeine	A	Ingestion	Int suicide	96 μg/mL	19 h
293	39 yr	acetaminophen clonazepam	A	Ingestion	Int suicide	871 μg/mL	
294	48 yr	acetaminophen cocaine caffeine ^A	U	Ing/Unk	Int suicide	181 μg/mL 71 μg/ml	
295	19 yr	acetaminophen	А	Ingestion	Int suicide	214 μg/mL	24 h
296 a	22 yr	acetaminophen	С	Ingestion	Ther err		
297 ip	41 yr	acetaminophen ethanol	U	Ingestion	Int suicide	645 μg/mL§ 10 mg/dL§	
298	76 yr	acetaminophen ethanol	A/C	Ingestion	Ther err	75 μg/mL	5 h
299	51 yr	acetaminophen ethanol trazodone ^A	U	Ingestion	Int suicide	17.8 μg/mL 15 mg/dL	
300	35 yr	acetaminophen ethylene glycol	U	Ingestion	Int suicide	15 μg/mL 22 ma/dL	
301	46 yr	acetaminophen ethylene glycol	А	Ingestion	Int suicide	172 μg/mL 14 mg/dL	
302 p	55 yr	acetaminophen fentanyl patch	А	Derm/Ing	Int unk	98 μg/mL	
303	45 yr	acetaminophen fluoxetine	А	Ingestion	Int unk	84.1 μg/mL	30 h
304	35 yr	acetaminophen fluoxetine bydrochlorothiazide/valsartan ^A	С	Ingestion	Int misuse	77 μg/mL	
305	41 yr	acetaminophen fluoxetine zolpidem ^A	A/C	Ingestion	Int suicide	≥200 μg/mL	
306	46 yr	acetaminophen	А	Ingestion	Int suicide	105.2 μg/mL 40 ng/ml δ	
307	30 yr	acetaminophen ibuprofen	С	Ingestion	Int misuse	8 μg/mL	

TABLE 21. Summary of Fatal Exposures Reported to TESS in 2002 (Continued)

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
308	27 yr	acetaminophen	А	Ingestion	Int suicide	5 μg/mL	16 h
		iron		0		139 µg/dL	16 h
309	21 yr	acetaminophen lithium	U	Ingestion	Int suicide	58.7 μg/mL 1.8 mEq/L	
310	40 yr	risperidone acetaminophen oxycodone	U	Ingestion	Int suicide		
311	14 yr	tricyclic antidepressant acetaminophen	A/C	Ingestion	Int suicide	170 μg/mL	
312	18 yr	acetaminophen	U	Ingestion	Int unk	33 μg/mL 32 μg/mL	
313	26 yr	unknown drug acetaminophen	А	Ingestion	Int suicide	282 μg/mL	
314	65 yr	acetaminophen	A/C	Ingestion	Int suicide	71.9 μg/mL	
315 p	44 yr	valproic acid acetaminophen venlafavine	А	Ingestion	Int suicide	84 µg/mL	
316	40's yr	ethanol ^A acetaminophen	U	Ingestion	Int suicide	70 mg/dL 170 μg/mL	
017	26.15	zolpidem		Ingestion	Int outoido	160	
317	36 yr	carbamazepine diphenhydramine	AVC	Ingestion	int suicide	34.4 μg/mL	
318	19 yr	acetaminophen/aspirin/caffeine bupropion (long-acting)	А	Ingestion	Int suicide	126 μg/mL¥	
319	22 vr	aspirin [~] acetaminophen/aspirin/caffeine	U	Ingestion	Int suicide	65 mg/dL 410 μα/mL¥	
	,	lorozonom		5		51.3 mg/dL¶	
320	41 yr	acetaminophen/codeine	С	Ingestion	Int misuse	15 μg/mL¥	
321	49 yr	acetaminophen/codeine	A	Ingestion	Unknown	228 µg/mL¥	
322	53 yr	acetaminophen/codeine	C	Ingestion	Int misuse	40 μg/mL¥ 47 μg/mL¥	
323 p 324 p	37 yr	acetaminophen/codeine	AVC	Ingestion	Int suicide	47 μg/mL¥ 877.5 μg/mL¥	7 h
		acetaminophen/butalbital/caffeine		-		codeine 12.2 µg/mL	
325	49 yr	acetaminophen/codeine	A/C	Asp/Ing	Int suicide	261 μg/mL¥	
326	77 yr	acetaminophen/codeine boric acid	А	Ingestion	Int suicide		
327	76 yr	acetaminophen/codeine lorazepam	A/C	Ingestion	Int suicide		
328	18 yr	acetaminophen/diphenhydramine	A	Ingestion	Int suicide	35 μg/mL¥	
329	21 yr	acetaminophen/diphenhydramine	A	Ingestion	Int suicide	29 μg/mL¥	23 h
330	24 yr 25 yr	acetaminophen/diphenhydramine	A	Ingestion	Int suicide	51 μα/mL¥	1 d
332	28 yr	acetaminophen/diphenhydramine	Ŭ	Ingestion	Int suicide	94 μg/mL¥	
333 a	32 yr	acetaminophen/diphenhydramine	A	Ingestion	Int suicide	540 μg/mL¥	
334	43 yr	acetaminopnen/dipnennydramine	A	Ingestion	int unk	546 μg/mL¥ diphenhydramine 5.36 μg/mL §	
335	47 yr	acetaminophen/diphenhydramine	U	Ingestion	Int suicide	103 μg/mL¥	
336	50 yr	acetaminophen/diphenhydramine	U	Ingestion	Int abuse	24.7 μg/mL¥	2 d
337	64 yr	acetaminophen/diphenhydramine	A/C	Ingestion	Int suicide	621 μg/mL¥§	
339	56 yr	acetaminophen/diphenhydramine acetaminophen	Â/C	Ingestion	Int suicide	910 μg/mL¥	
340	18 yr	acetaminophen/diphenhydramine activated charcoal	А	Asp/Ing	Int suicide	234.6 μg/mL¥	4 h
341	23 yr	acetaminophen/diphenhydramine	А	Ingestion	Int suicide	28.6 μg/mL¥ 11 mg/dl	48 h
342 p	50's yr	acetaminophen/diphenhydramine	А	Ingestion	Int suicide	$119 \ \mu g/mL$ ¥§ diphenhydramine 2.3 $\mu g/mL$ §	
343	27 vr	etnanoi acetaminophen/hydrocodone	Δ	Indestion	Int abuse	242 mg/dL§ 55 µg/ml ¥	
344	29 vr	acetaminophen/hydrocodone	Â/C	Indestion	Int suicide	160 μg/mL¥	
345	37 yr	acetaminophen/hydrocodone	A/C	Ingestion	Int suicide	198 μg/mL¥	72 h
346 p	38 yr	acetaminophen/hydrocodone	U	Ingestion	Int suicide	74	10 5
347	39 yr	acetaminophen/hydrocodone	U A/C	Ingestion	Unknown	74 μg/mL≆ 6.6 μα/mL¥	1911
349	42 yr	acetaminophen/hydrocodone	Ā/C	Ingestion	Int suicide	23.2 μg/mL¥	
350	42 yr	acetaminophen/hydrocodone	C	Ingestion	Ther err	58 µg/mL¥	
351	42 yr	acetaminophen/hydrocodone	A/C	Ingestion	Int misuse	590 μg/mL¥ hydrocodone 1,300 ng/mL	
352 p	43 yr	acetaminophen/hydrocodone	A	Ingestion	Int suicide	107 µg/mL¥	
353 354	44 yr 46 yr	acetaminophen/hydrocodone	A/C A	Ingestion	Int suicide	6/μg/mL¥ 133α/mL¥	24
355	48 vr	acetaminophen/hydrocodone	ĉ	Ingestion	Int unk	143 µg/mL¥	2 u
356	57 yr	acetaminophen/hydrocodone	С	Ingestion	Int suicide		
357	60's yr	acetaminophen/hydrocodone	A	Ingestion	Int suicide	905 μg/mL¥	4 h
350 350	65 yr 76 yr	acetaminophen/nydrocodone	A A/C	Ingestion	Int suicide	12.8 μg/mL¥ 5 μg/mL¥	6 h
360	76 vr	acetaminophen/hvdrocodone	Ű	Ingestion	Unknown	29 µg/mL¥	011
361	>19 yr	acetaminophen/hydrocodone	A/C	Ingestion	Int suicide		
362	40 yr	acetaminophen/hydrocodone acetaminophen/oxycodone carisoprodol ^A	С	Ingestion	Int suicide		

TABLE 21.	Summar	v of Fatal	Exposures	Reported to	TESS in 2002	(Continued)
-----------	--------	------------	-----------	-------------	--------------	-------------

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
363	25 yr	acetaminophen/hydrocodone alprazolam	А	Ingestion	Int suicide	154 μg/mL¥	
364	54 yr	carisoprodol ^A acetaminophen/hydrocodone amitriptyline	A/C	Ingestion	Int suicide		
365	35 yr	gabapentin ^A acetaminophen/hydrocodone amitriptyline	А	Ingestion	Int suicide	65.2 μg/mL¥	
366	53 yr	morphine (long-acting) ^A acetaminophen/hydrocodone aspirin/carisoprodol	А	Ingestion	Int suicide	41.9 μg/mL¥	
367	27 yr	acetaminophen/hydrocodone barbiturate	A	Ingestion	Int suicide		
368	26 yr	benzodiazepine ¹ acetaminophen/hydrocodone carisoprodol	С	Ingestion	Int misuse	23 µg/mL¥	
369	38 yr	acetaminophen/hydrocodone carisoprodol	U	Ingestion	Int suicide	50 μg/mL¥	
370	46 yr	acetaminophen/hydrocodone carisoprodol	С	Ingestion	Int misuse	16 μg/mL¥	
371 p	59 yr	acetaminophen/hydrocodone carisoprodol	A/C	Ingestion	Int suicide	181 μg/mL¥	
372 p	59 yr	acetaminophen/hydrocodone carisoprodol alprazolam	U	Ingestion	Int suicide		
373 p	60 yr	acetaminophen/hydrocodone chlordiazepoxide	С	Ingestion	Unknown	25 μg/mL¥	
374 p	43 yr	acetaminophen/hydrocodone clonazepam	A/C	Ingestion	Int suicide		
375	38 yr	acetaminophen/hydrocodone diazepam	A/C	Ingestion	Int suicide		
376	52 yr	acetaminophen/hydrocodone diazepam	А	Ingestion	Int suicide	89.8 μg/mL¥	
377 p	27 yr	acetaminophen/hydrocodone ethanol	U	Ingestion	Int suicide		
378 i	61 yr	acetaminophen/hydrocodone lorazepam ethanol	A/C	Ingestion	Int suicide		
379 p	Unk	acetaminophen/hydrocodone marijuana	A/C	Ing/Inh	Int abuse		
380 p	36 yr	acetaminophen/hydrocodone morphine alprazolam ^A	U	Ingestion	Int suicide	hydrocodone 107 ng/mL§ 178 ng/mL§ 150 ng/mL§	
381	50 yr	acetaminophen/hydrocodone morphine (long-acting) clonidine	A	Ingestion	Int suicide		
382	43 yr	acetaminophen/hydrocodone oxycodone	A/C	Ingestion	Int suicide	47.3 μg/mL¥	
383	42 yr	acetaminophen/hydrocodone tramadol cyclobenzaprine ^A	A/C	Ingestion	Unknown		
384	42 yr	acetaminophen/hydrocodone trazodone	U	Ingestion	Int suicide		
385 p 386 p	19 yr 28 yr	acetaminophen/oxycodone acetaminophen/oxycodone	U A	Ingestion Ingestion	Int unk Int suicide	oxycodone 900 ng/mL§ 268 μg/mL¥	
387	29 yr	acetaminophen/oxycodone	U	Ingestion	Int suicide		
388 389 ip	54 yr 58 yr	acetaminophen/oxycodone acetaminophen/oxycodone	A U	Ingestion	Unknown	105 μg/mL¥ 9.91 μg/mL¥§	
390	51 yr	acetaminophen/oxycodone	С	Ingestion	Int suicide	oxycodone 620 ng/mL§ 112.3 µg/mL¥	
391 p	40 yr	aspirin acetaminophen/oxycodone diazepam	А	Ingestion	Int suicide	12 mg/dL 25 μg/mL¥	4 h
392 p	45 yr	ethanol ^A acetaminophen/oxycodone methadone	A/C	Ingestion	Int misuse	196 mg/dL	
393	30 yr	tricyclic antidepressant ^A acetaminophen/oxycodone naproxen nabumetone	С	Ingestion	Int misuse		
394 p	26 yr	acetaminophen/propoxyphene	A	Ingestion	Int suicide		
395 p 396	33 yr 38 yr	acetaminophen/propoxyphene	A	Ingestion	Int suicide	25.2 µg/ml ¥	
397	47 yr	acetaminophen/propoxyphene	Â/C	Ingestion	Int suicide	20.2 µg/m±+	
398 200 ~	53 yr	acetaminophen/propoxyphene	A	Ingestion	Int suicide	209 μg/mL¥	
399 p 400	68 vr	acetaminophen/propoxyphene	AVC	Ingestion	Unknown	105 μα/mL¥	
401	80 yr	acetaminophen/propoxyphene	U	Ingestion	Int suicide	24.7 μg/mL¥	
402 ip 403 in	>19 yr	acetaminophen/propoxyphene	A A	Ingestion	Int suicide	982a/ml ¥8	
41 00 1	чо уг	alorazolam	~	ingeouoff		propoxyphene 6.15 μg/mL§ norpropoxyphene 6.15 μg/mL§ 370 ng/mL§	
404	67 yr	acetaminophen/propoxyphene	А	Ingestion	Int suicide	41.3 μg/mL¥	
405	99 yr	acetaminophen/propoxyphene aspirin	A/C	Ingestion	Int suicide		

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
406	40.500	acataminanhan/aranaw/nhana	^	Ingestion	Int ouiside	260	
406	42 yr	aspirin	A	Ingestion	int suicide	260 μg/mL+ş propoxyphene 0.9 μg/mL§ norpropoxyphene 0.87 μg/mL§ 50.8 mg/dL	5 h
407	51 yr	ethanol acetaminophen/propoxyphene carbamazepine	U	Ingestion	Int suicide	200 mg/dL§ 454 μg/mL¥	4 h
408	45 yr	bupropion acetaminophen/propoxyphene	A/C	Ingestion	Int suicide	57 μg/mL¥	5 h
409i	52 yr	acetaminophen/propoxyphene ethanol	A/C	Ingestion	Int misuse	51 μg/mL¥	
410	26 yr	acetaminophen/propoxyphene	A/C	Derm/Ing	Int abuse	504.1 μg/mL¥	
411 p	42 yr	acetaminophen/propoxyphene	А	Ingestion	Int suicide	240 μg/mL¥	
412	48 yr	acetaminophen/propoxyphene venlafaxine (long-acting) tizaridine ^A	A/C	Ingestion	Int suicide	78.1 μg/mL¥	
413	39 yr	acetaminophen/tramadol acetaminophen/propoxyphene	А	Ingestion	Int suicide	336 μg/mL¥	2 h
414	71 yr	acetaminophen/tramadol dicyclomine	A/C	Ingestion	Int suicide	180 μg/mL¥	2 11
415	39 yr	acetaminophen/tramadol heroin	А	Ingestion	Int abuse	40 µg/mL¥	
416	17 yr	aspirin	U	Ingestion	Unknown	66.4 mg/dL	
417	21 yr	aspirin	A	Ingestion	Int suicide	118 mg/dL	3 h
418 419	27 yr 29 yr	aspirin	A	Ingestion	Int suicide	99 mg/dL 126 mg/dl	
420	29 yr	aspirin	Â	Ingestion	Int suicide	150 mg/dL	
421	35 yr	aspirin	А	Ingestion	Int suicide	70.3 mg/dL	
422	36 yr	aspirin	Α	Ingestion	Int suicide	100 mg/dL	
423	43 yr	aspirin	A	Ingestion	Int suicide	76 mg/dL	10 h
424 425	45 yr 47 yr	aspirin	Δ	Ingestion	Int misuse	108 mg/dL	
426	47 yr	aspirin	ĉ	Ingestion	Int suicide	87 ma/dL	
427	48 yr	aspirin	A	Ingestion	Int suicide	119 mg/dL	
428	48 yr	aspirin	A	Ingestion	Int suicide	86 mg/dL	21 h
429	49 yr	aspirin	A	Ingestion	Int suicide	127 mg/dL	1 h
430	50 yr	aspirin	Δ	Ingestion	Int suicide	106 mg/dL	4 11
432	58 yr	aspirin	Â	Ingestion	Int suicide	111 mg/dL	
433	59 yr	aspirin	A	Ingestion	Int suicide	104 mg/dL	22 h
434	59 yr	aspirin	A	Ingestion	Int suicide		
435	60's yr	aspirin	C A/C	Ingestion	Int misuse	61.6 mg/dL 42.7 mg/dL	
430	72 yi 78 vr	aspirin	A/C	Ingestion	Int suicide	124 mg/dL	
438	80 yr	aspirin	A	Ingestion	Int suicide	136 mg/dL	4 h
439	82 yr	aspirin	A	Ingestion	Int suicide	137 mg/dL	24 h
440	83 yr	aspirin	A	Ingestion	Int suicide	58 mg/dL	
441	40 yr	aspirin acetaminophen	A	Ingestion	Int suicide	68 mg/dL 46 μg/mL	
442 a	42 yr	aspirin acetaminophen	A	Ingestion	Int suicide	73 mg/dL 130 μg/mL	16 h
443	63 yr	aspirin acetaminophen	A	Ingestion	Int suicide	70 mg/dL 204 μα/mL	
444	33 yr	aspirin acetaminophen cocaine	U	Ing/Inh	Int misuse	60 mg/dL 148 μg/mL	
445	54 yr	aspirin acetaminophen iburrofen	A	Ingestion	Int suicide	73 mg/dL 685 μg/mL	
446	48 yr	aspirin acetaminophen/codeine	A	Ingestion	Int suicide	90 mg/dL 7.8 μg/mL¥	
447	29 yr	aspirin acetaminophen/propoxyphene naproxen ^A	A/C	Ingestion	Int suicide	60 mg/dL 120 μg/mL¥	
448	63 yr	aspirin amlodinine/benazenril	А	Ingestion	Int suicide	84.9 mg/dL	2 h
449	35 yr	aspirin	А	Ing/Unk	Int suicide	141 mg/dL	
450 p	42 yr	aspirin cocaine opioid ^A	A	Ingestion	Int suicide	85 mg/dL	
451	37 yr	aspirin diphenhydramine ethanol	A	Ingestion	Int suicide	90 mg/dL	
452	39 yr	aspirin methadone amphetamine	A	Ing/Paren/Unk	Int suicide	88 mg/dL	7 h
453	19 yr	aspirin methamphetamine	С	Ingestion	Int unk	163 mg/dL 0.12 μg/mL§ d-amphetamine 0.05 μg/mL§	

TABLE 21. Summar	v of Fatal Exposures	Reported to	TESS in 2002	(Continued)
	,			

						Blood	Interval
Case	Age	Substances	Chronicity	Route	Reason	Concentrations	Exposure
454 p	>19 yr	aspirin nonsteroidal antiinflammatory	А	Ingestion	Int suicide		
455 p	58 yr	drug aspirin unknown drug	А	Ingestion	Int suicide	77.2 mg/dL	
456 457	53 yr 30 yr	aspirin/butalbital/caffeine aspirin/caffeine/orphenadrine/	A A	Ingestion Ingestion	Int suicide Int suicide	8.6 mg/dL¶ 647.5 mg/dL¶	
458 p	54 yr	phenacetin aspirin/codeine diazepam	A/C	Ingestion	Int abuse	330 ng/ml §	
459 460	4 yr 48 yr	colchicine	A A	Ingestion Ingestion	Unint gen Int suicide	000 Hg/m23	
461 a	56 vr	colchicine	A	Ingestion	Int unk		
462	82 yr	colchicine	A/C	Ing/Paren	Ther err		
463 a	83 yr	colchicine	A/C	Ingestion	Ther err		
464 p	30 yr	fentanyl alprazolam diphenbydramine ^A	A	Ingestion	Int suicide	4.1 ng/mL§ 350 ng/mL§ 1.38 µg/mL§	
465 ip	37 yr	fentanyl diazepam	А	Ingestion	Int suicide	9.7 ng/mL§ 77 ng/mL§	
466 p	49 yr	fentanyl morphine (long-acting)	U	Ingestion	Int abuse	450 ng/mLş 3.6 ng/mL 40 ng/mL	
467.00	1 100	fontanyl pateh	۸	Dormal	Thor orr		
407 ap 468 in	24 yr	fentanyl patch	Δ	Indestion			
469 n	24 yr	fentanyl patch	Ä	Ingestion	Int unk		
470 ip	27 vr	fentanyl patch	A	Ingestion	Int abuse		
471 p	28 yr	fentanyl patch	A/C	Parenteral	Int abuse		
472 p	41 yr	fentanyl patch	A/C	Dermal	Int suicide		
473 p	58 yr	fentanyl patch	С	Dermal	Int unk	27.7 ng/mL	
474 p	41 yr	tentanyl patch	A/C	Ingestion	Int suicide	4.6 ng/mL norfentanyl 6.3 ng/mL	
475 n	36 yr	carisoprodol ^A	Δ	Indestion	Int abuse		
476 p	19 yr	ethanol	Δ	Ingestion	Int unk	56.6 mg/dL 2.086 ng/mL 8	
477 ip	38 yr	hydrocodone	Â	Paren/Unk	Int abuse	50 ng/mL§ 50 ng/mL§ dihydrocodeine 40 ng/mL§	
		meprobamate ^A				130 fig/file§	
478 ip	23 yr	hydrocodone	A/C	Ingestion	Int abuse	93 ng/mL§ dihydrocodeine 21 ng/mL§	
479 aip	4 yr	carisoprodoi hydrocodone chlorpheniramine quaifenesin	A/C	Ingestion	Ther err	5.5 μg/mL§ 670 ng/mL§ 0.21 μg/mL§	
480 p	23 yr	hydrocodone citalopram	A/C	Ingestion	Int suicide	150 ng/mL§ 1,980 ng/mL§	
481 ip	48 yr	hydrocodone	A/C	Ingestion	Int abuse	220 ng/mL§ 230 mg/dL§	
482 ip	24 yr	hydrocodone	U	Unknown	Int unk	80 ng/mL§	
		propoxyphene				0.09 μ g/mL§ norpropoxyphene 0.9 μ g/mL§	
483 a	16 yr	bydromorphone	Δ	Parenteral	Ther err		
484	48 vr	hydromorphone	Û	Ingestion	Int suicide		
485 aip	7 ýr	meperidine	С	Ingestion	Ther err	1.27 μg/mL§	
486 ip	29 yr	meperidine hvdrocodone	С	Ingestion	Ther err	normeperidine 0.76 μg/mL§ 0.89 μg/mL§ 70 ng/mL§	
		promethazine ^A				390 ng/mL§	
487 p	17 yr	methadone	U	Ing/Unk	Int abuse		
488 p	19 yr	methadone	U	Unknown	Int abuse		
409 p 490 in	21 yr 24 yr	methadone	Δ	Unknown	Linknown		
491 p	26 vr	methadone	Â	Ingestion	Int suicide		
492 ip	26 yr	methadone	А	Ingestion	Int abuse	0.1 μg/mL§	
493 ip	29 yr	methadone	А	Ingestion	Int misuse	EDDP 0.05 μg/mL§ 0.34 μg/mL§	
494	33 yr	methadone	А	Ingestion	Unknown	EDDP 0.12 μ g/mLs	
495 p	37 yr	methadone	A	Ingestion	Int suicide		
496 p 497 ip	37 yr 38 yr	methadone methadone	A/C A/C	Ingestion	Unknown Unint misuse	0.67 μg/mL§	
498 p	40 vr	methadone	A/C	Ingestion	Int suicide	EDDE 0.09 MQ/IIIES	
499 p	40 vr	methadone	A/C	Ingestion	Int abuse		
500 ip	41 ýr	methadone	A/C	Ingestion	Int suicide	0.57 μg/mL§	
501	50 yr	methadone	A/C	Ingestion	Int misuse	0.68 μg/mL§	
502 ip	>19 yr	methadone	A	Ingestion	Int abuse	31 μg/mL§	
503	37 yr	methadone acetaminophen	A/C	Ingestion	Int suicide	Ευυν 15 μg/mL§ 43 μg/ml	
504 ip	34 yr	carisoprodol methadone acetaminophen/hydrocodone	A/C	Ingestion	Int suicide	To pyrine	

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
505 ip	37 yr	methadone acetaminophen/hydrocodone	U	Ing/Unk	Int unk	0.46 μg/mL§ hydrocodone 50 ng/mL§	
506 p	24 yr	paroxetine methadone	А	Ingestion	Int unk	9,800 ng/mL§ 0.2 μg/mL§	
507	42 yr	methadone	A/C	Ingestion	Int abuse		
508 ip	27 yr	alprazolam methadone alprazolam	U	Ingestion	Unknown	94.4 ng/mL 1.2 μg/mL§	
509 ip	61 yr	acetaminophen/codeine ^A methadone alprazolam	A/C	Ingestion	Int suicide	1.03 μg/mL§ 180 ng/mL§	
510 ip	26 yr	acetaminopnen/nydrocodone methadone chlordiazepoxide	А	Ing/Inh	Int misuse	nyarocodone 100 ng/mLş 0.72 µg/mL§ 740 ng/mL§	
511 ip	28 yr	methadone chlorpheniramine mirtazanine	A/C	Ingestion	Int unk	0.32 μg/mL§ 0.72 μg/mL§ 140 ng/mL§	
512 p	23 yr	methadone	A/C	Ingestion	Int unk	0.23 μg/mL§	
513 p	38 yr	methadone diazepam	A/C	Ingestion	Int abuse	0.4 μg/mL§ 200 ng/mL§	
514 ip	39 yr	methadone diazepam	U	Unknown	Unknown	nordiazepam 550 ng/mLş 0.09 µg/mLş 180 ng/mLş pordiazepam 160 ng/mL ş	
515 ip	42 yr	methadone diazepam	A/C	Ingestion	Int misuse	norulazepani roo ng/meg	
516 p	28 yr	bupropion methadone diazepam	A/C	Ing/Unk	Int misuse	0.64 μg/mL§ 41 ng/mL§ nordiazepam 163 ng/mL§	
517 p	43 yr	methadone diazepam	U	Ingestion	Int unk	0.056 μg/mLş benzolyecgonine 0.22 μg/mL§ 0.7 μg/mL§ 4,000 ng/mL§ nordiazepam 2.000 ng/mL§	
518 ip	44 yr	fluoxetine methadone diazepam	U	Unknown	Int unk	200 ng/mL§ 0.34 μg/mL§ 220 ng/mL§ nordiazepam 420 ng/mL§	
519 p	50 yr	hydrocodone methadone diazepam	U	Ingestion	Unknown		
520 aip	17 mo	paroxetine methadone diphenhydramine	А	Ingestion	Unknown	0.65 μg/mL§ 1.2 μg/mL§	
521 p	39 yr	methadone ethanol	A/C	Ingestion	Int unk		
522	41 yr	methadone ethanol	U	Ingestion	Unknown	0.74 μg/mL§	
523 p	Unk	methadone	U	Ingestion	Int abuse		
524 ip	47 yr	methadone	U	Ingestion	Int suicide	0.29 μg/mL§ EDDP 0.06 μg/mL§ 230 mg/dLδ	
525 i	28 yr	citalopram methadone fentanyl	A	Ing/Unk	Int unk	0.37 μg/mL§ EDDP 0.35 μg/mL§ 1.5 ng/mL§	
		diazepam				520 ng/mL§ nordiazepam 1,150 ng/mL§	
526 ip	17 yr	methadone aamma hydroxybutyrate	A/C	Ingestion	Int abuse	0.46 μg/mL§ 13 μα/mL§	
527	48 yr	methadone heroin	A	Ing/Paren	Int abuse	· · · · · · · · · · · · · · · · · · ·	
528 i	20 yr	methadone	А	Ing/Inh	Int abuse	0.21 μg/mL§	
529 ip	52 yr	methadone	А	Ingestion	Int misuse	0.35 μg/mL§	
530 ip	18 yr	marijuana methadone	А	Ingestion	Int unk	18.3 ng/mL§# 0.16 μg/mL§	
531 p	50 yr	olanzapine methadone	A/C	Ingestion	Int suicide	160 ng/mL§	
532	30 yr	gabapentin methadone opioid	A/C	Ing/Unk	Int abuse		
533 p	30 yr	benzodiazepine methadone oxycodone	A/C	Ingestion	Int misuse		
534 p	47 yr	acetaminophen/hydrocodone methadone oxycodone alorazolam ^A	A	Ingestion	Int unk		
535 p	43 yr	methadone oxycodone clonazepam ^A	A	Ing/Unk	Unknown		

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
536 in	41 vr	methadone	A/C	Ingestion	Int misuse	0.4 µg/ml §	
000 lp	ar yr	oxycodone doxepin ^A		ingeetien		140 ng/mL§ 200 ng/mL§ nordoxenin 250 ng/mL§	
537 ip	40 yr	methadone	A/C	Ingestion	Int misuse	0.34 μg/mL§ EDDP 0.09 μg/mL§	
		propoxypnene				norpropoxyphene 2 μ g/mL§	
538	39 yr	methadone	A	Ingestion	Int suicide		
539 p	54 yr	methadone sertraline	А	Ingestion	Int suicide		
540 p	18 yr	methadone	U	Ingestion	Int suicide		
541 p	26 yr	methadone venlafaxine	A/C	Ingestion	Int suicide	0.35 μg/mL§ 350 ng/mL§	
542 ip	41 yr	acetaminophen/butalbital/caffeine ^A methadone venlafaxine	А	Unknown	Unknown	0.35 μg/mL§ 880 ng/mL§	
543 p	22 yr	diphenhydramine methadone warfarin wfarin	А	Ingestion	Int abuse	0.05 μg/mL§	
544 n	20 vr	refecoxib	A/C	Indestion	Int abuse		
545 p	23 yr	morphine	A/C	Ingestion	Int suicide		
546 p	34 yr	morphine	A	Unknown	Int suicide		
547 p 548 p	50's yr	morphine	A/C	Ingestion	Int suicide	200 ng/ml &	
540 p	50 yr	acetaminophen/oxycodone cocaine	~	ilig/ of ik		12.9 μg/mL¥§ benzoylecgonine 0.12 μg/mL§	
549	42 yr	morphine acetaminophen/propoxyphene fontanyl patoh ^A	U	Derm/Ing	Int unk		
550 p	17 yr	alprazolam cocaine ^A	A/C	Ing/Inh/Unk	Int abuse		
551 p	38 yr	morphine alprazolam trazodone ^A	A	Ingestion	Int suicide		
552 p	59 yr	morphine amitriptvline	A/C	Ingestion	Int misuse	1,000 ng/mL§	
553	42 yr	morphine benzodiazepine amphetamine	A	Ingestion	Int suicide		
554 ip	35 yr	morphine carisoprodol meprobamate ^A	A	Unknown	Unknown	260 ng/mL§	
555 ip	34 yr	morphine codeine ephedrine ^A	A/C	Ingestion	Unint misuse	770 ng/mL§ 36 μg/mL§ 500 ng/mL§	
556 p	48 yr	morphine diazepam	A/C	Ingestion	Int suicide		
557	68 yr	morphine diazepam	A	Ingestion	Int suicide	4,961 ng/mL§ 130 ng/mL nordiazepam 50 ng/mL	
558 p	34 yr	morphine fentanyl patch alprazolam	A	Ingestion	Int suicide		
559 p	20 yr	morphine heroin	A/C	Parenteral	Int abuse		
560	83 yr	morphine Iorazepam digoxin ^A	A/C	Ingestion	Ther err		
561 i	27 yr	morphine methadone	A	Unknown	Int abuse	20 ng/mL§	
562 ip	48 yr	morphine oxycodone cvclobenzaprine	U	Ing/Unk	Unknown	140 ng/mL§ 220 ng/mL§ 0.08 μα/mL§	
563 p	39 yr	morphine oxycodone trazodone	A/C	Ingestion	Int suicide		
564 ai	33 yr	morphine promethazine	A	Parenteral	Ther err	280 ng/mL§ 110 ng/mL§	
565 p	38 yr	morphine (long acting) morphine	A/C	Ingestion	Int suicide		
566 p	37 yr	morphine (long-acting)	A	Ingestion	Int suicide		
568	42 yr	morphine (long-acting) morphine (long-acting) fentanyl patch zolpidem	A A	Derm/Ing	Int suicide		
569 p 570 p	49 yr 44 yr	opioid opioid benzodiazepine barbiturate	A A/C	Ing/Unk Unknown	Int unk Int abuse		
571	55 yr	opioid tricvclic antidepressant	U	Unknown	Unknown		
572 p 573 p	24 yr 41 yr	oxycodone	C U	Ingestion Ingestion	Int abuse Int suicide	8,000 ng/mL§	

_				_	_	Blood	Interval after
Case	Age	Substances	Chronicity	Route	Reason	Concentrations	Exposure
574 ip 575 p	47 yr 14 yr	oxycodone oxycodone alorazolam	A/C A	Ingestion Ing/Inh	Int abuse Int abuse	610 ng/mL§	
576 p	36 yr	oxycodone	A/C	Ingestion	Int unk	400 ng/mL§	
577 p	56 yr	alprazolarn oxycodone alprazolam carisoprodol ^A	A/C	Ingestion	Int suicide	o ng/m⊑§	
578 p	23 yr	oxycodone alprazolam marijuana	U	Unknown	Int abuse	321 ng/mL§ 15 ng/mL§ THC 10.1 ng/mL§ carboxy THC 24.6 ng/mL§	
579 p	33 yr	oxycodone clonazepam quetiapine ^A	A	Ingestion	Int suicide		
580 p	56 yr	oxycodone clonazepam venlafaxine ^A	A/C	Ingestion	Int suicide		
581 p	32 yr	oxycodine	А	Ing/Unk	Int abuse		
582 p	23 yr	oxycodone cocaine	A/C	Ing/Paren	Int abuse		
583	43 yr	oxycodone	С	Ingestion	Int misuse		
584 ip	47 yr	diazepam oxycodone	U	Ing/Unk	Int unk	180 ng/mL§	
		hydrocodone ^A				27,400 ng/mLş nordiazepam 590 ng/mL§ 90 ng/mL§ dibydrocodeipa 60 ng/mL§	
585	38 yr	oxycodone ethanol	А	Ing/Unk	Int abuse	113 mg/dL	
586 p	31 yr	oxycodone heroin	А	Ing/Paren	Int abuse	150 ng/mL§ morphine 170 ng/mL§	
587 p	39 yr	oxycodone	А	Ingestion	Int misuse	0.16 µg/mL§	
588 p	19 yr	methadone oxycodone methadone	А	Ingestion	Int suicide	0.12 μg/mL	
589 p	30 yr	alprazolam [~] oxycodone methadone diazenam	A/C	Ingestion	Int unk		
590 p	53 yr	oxycodone propranolol	А	Ingestion	Int suicide		
591	30 yr	oxycodone tizanidine	U	Ing/Paren	Unknown		
592	67 yr	oxycodone venlafaxine	A	Ingestion	Int suicide	224 ng/mL 600 ng/mL norvenlafaxine 142 ng/mL	
593 ip	51 yr	alprazolarn oxycodone venlafaxine promethazine ^A	U	Unknown	Int unk	56 ng/mL 330 ng/mL§ 5,270 ng/mL§ 100 ng/mL§	
594 p 595	44 yr 75 yr	oxycodone (long-acting)	A/C	Ingestion	Int suicide	840 ng/ml	
596	48 yr	oxycodone (long-acting) acetaminophen	A	Ingestion	Int suicide	46.6 µg/mL	
597 p	39 yr	oxycodone (long-acting) carisoprodol fentanyl patch ^A	A/C	Ingestion	Int suicide		
598 p	36 yr	oxycodone (long-acting)	A/C	Ingestion	Int suicide		
599	47 yr	pentazocine/naloxone carbamazepine diazepam	U	Unknown	Unknown		
600 p 601	59 yr 44 yr	propoxyphene propoxyphene alprazolam	A A/C	Ingestion Ingestion	Int unk Int suicide		
602 p	22 yr	quetiapine [®] propoxyphene diazepam	A	Ingestion	Unknown	0.12 μg/mL§ norpropoxyphene 0.42 μg/mL§ 200 na/mL§	
		morphine				nordiazepam 220 ng/mL§ 47 ng/mL§	
603 ip	42 yr	propoxyphene diphenhydramine	A	Ing/Unk	Int suicide	3 μg/mL§ norpropoxyphene 2.6 μg/mL§ 0.54 μg/mL§	
604 p	40 yr	sertraline^ tramadol	U	Ingestion	Int suicide	410 ng/mL§	
605 ip	55 yr	tramadol fentanyl meneridine	A/C	Ingestion	Int abuse	0.85 µg/mL§ nortramadol 0.084 µg/mL§ 1.8 ng/mL§ 0.035 سم/mL§	
		moponano				normeperidine 0.15 μ g/mL§	

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
See also cas caffeine); 868 diphenhydrar 277, 362, 548 405, 406, 614 983 (codeine 445, 715, 779 1016, 1060, 1 881 (naproxe 795, 936, 979	es 12, 13, 5 3 (acetamino mine); 35, 27 3, 591, 671, 6 4, 737, 844, 9 9; 525, 605 9, 875, 1064 1063, 1065, 7 n); 454 (nons 2, 1133, 114	2, 91, 339, 409, 441 thru 445, 503, 59 pphen/butalbital); 324, 541 (acetaminop 77 thru 280, 474, 504, 505, 509, 533, 6 809, 1054 (acetaminophen/oxycodone); 981 (aspirin); 776 (aspirin/butalbital/caffei (fentanyl); 302, 410, 549, 558, 568, 597 4 (ibuprofen); 808 (ketoprofen); 605 (me 1066, 1113, 1132 (methadone); 380, 565 steroidal antiinflammatory drug); 20, 450, 13, 1144 (oxycodone); 22, 482, 537, 75	5, 614, 679, 774, 1 hen/butalbital/cafi 28, 649 thru 651, 413, 447, 549, 652 nei); 366 (aspirin/ca , 795 (fentanyl pa peridine); 392, 45 , 602, 892, 944, 10 532, 734, 755, 75 9, 972, 983, 1068	775, 844, 899, 9 feine); 446, 508, 656, 797, 926, 5 trisoprodol); 1054 tch); 786 (flunixii 2, 561, 586 thru 68 (morphine); 2: 7, 812, 951 thru , 1072 (propoxyt	14, 925, 941, 1105, 1130 (a 648, 719, 990 (acetaminop 942, 949, 967, 968, 1014, 1 968, 1015 (acetaminophen/p 4 (aspirin/oxycodone); 1014 (n); 1063 (heroin); 306, 486, 589, 654, 655, 665, 666, 6 83, 365, 381, 466 (morphine 955, 1053, 1069, 1070, 1116 ohene); 543 (refecoxib); 383	Acetaminophen); 274 (acetaminopher hen/codeine); 134, 276 (acetaminopher uben/codeine); 134, 276 (acetaminopher/hyc ropoxyphene); 121, 284 thru 290, 31 aspirin/pentazocine); 763 (celecoxib); 518, 584, 930, 941, 1130 (hydrocod 93, 709, 710, 741, 742, 946, 964, 10 (long-acting)); 393 (nabumetone); 393 5 (opioid); 310, 382, 533 thru 536, 562 8, 414, 674, 993, 1118 (tramadol).	n/aspirin/ hen/ lrocodone); 8, 341, 390, 555, 655, 555, 655, one); 307, 07, 1011, , 447, 855, 563, 671,
Anesthetics 606 aip	38 yr	isoflurane metoprolol	A	Ing/Inh/Unk	Int unk	2.4 μg/mL§ 0.17 μg/mL§	
607 a	81 yr	lidocaine activated charcoal	А	Asp/Ing	Ther err	50 ng/m∟§	
608 p	32 yr	nitrous oxide	А	Inhalation	Int abuse		
Anticholinerg 609	ic drugs 20 vr	orphenadrine	A/C	Ingestion	Int suicide		
610 p	34 yr	tricyclic antidepressant trihexyphenidyl valproic acid quetianine	A/C	Ingestion	Int suicide	377 μg/mL	
See also cas	es 956, 975	(benztropine).					
Anticoagulan 611 a 612 613 614	nts 72 yr 51 yr 72 yr 47 yr	lepirudin warfarin warfarin aspirin	A C C A/C	Parenteral Ingestion Ingestion Ingestion	Ther err Adv rxn Adv rxn Unknown	7 mg/dL	
See also cas	es 543, 832	acetaminophen ^A (warfarin).				4.7 μg/mL	
Anticonvulsa	nts						
615 a 616	23 yr 95 yr	carbamazepine carbamazepine	A/C A/C	Ingestion Ingestion	Int suicide Int suicide	116 μg/mL 38.1 μg/mL	2 d
617	24 yr	doxazosin carbamazepine	A/C	Ingestion	Int suicide	28 µg/mL	
618	51 yr	fluoxetine carbamazepine	А	Ingestion	Int suicide	46.4 μg/mL	
619 620	45 yr 19 yr	trazodone ^A lamotrigine lamotrigine	A A	Ingestion Ingestion	Int suicide Int suicide	890 ng/mL 87.2 μg/mL	
621	32 yr	citalopram ^A lamotrigine venlafaxine	А	Ingestion	Int suicide		
622	84 yr	olanzapine^ phenytoin	С	Asp/Ing	Ther err	59 µg/mL	
623	44 yr	activated charcoal phenytoin	A/C	Ingestion	Int suicide	79 µg/mL	
624	39 yr	topiramate chloral hydrate ziprasidone ^A	U	Ingestion	Int suicide		
625 626 p	20 yr 37 yr	valproic acid	A/C	Ingestion	Int suicide	1,462 μg/mL 843 μg/mL	
627	60 yr	valproic acid	Â/C	Ingestion	Int suicide	841 μg/mL	
628	22 yr	valproic acid acetaminophen/hydrocodone	A/C	Ingestion	Int suicide	36.8 μg/mL 30 μg/mL¥	
629	54 yr	fluoxetine [~] valproic acid ethanol	А	Ingestion	Int suicide	1,381 μg/mL 26 mg/dL 27.3 μg/mL	
630	27 yr	valproic acid	А	Ingestion	Int suicide	$27.3 \ \mu g/mL$ 239 $\mu g/mL$ 1.3 mEq/l	
631	44 yr	valproic acid lithium	A/C	Ingestion	Int suicide	3.9 mEq/L	
632	38 yr	sertraline ^A valproic acid nefazodone	A/C	Ingestion	Int suicide	278 μg/mL	12 h
633	48 yr	valproic acid	U	Ingestion	Int suicide	1,011 μg/mL	
634	35 yr	quetiapine valproic acid risperidone	С	Ingestion	Unknown	93 μg/mL	
635 ap See also cas (topiramate);	18 yr es 317, 407 60, 314, 61	cionazeparn zonisamide , 599, 993 (carbamazepine); 364, 531, 0, 728, 878, 908, 951, 975, 976, 1002	A/C 662, 707, 708 (gal (valproic acid).	Ingestion bapentin); 992, 1	Int suicide 1000 (oxcarbazepine); 694,	44 μg/mL§ 801 (phenytoin); 58 (tiagabine); 712	

Antidepressants

636 ip	3 yr	amitriptyline	А	Ingestion	Malicious	4,600 ng/mL§
637	31 yr	amitriptyline	A	Ingestion	Int suicide	horaptynne 2,300 hg/mEg
638 i	38 yr	amitriptyline	A/C	Ingestion	Malicious	

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
639	38 vr	amitriptyline	Δ	Indestion	Int suicide		
640	39 vr	amitriptyline	Â/C	Indestion	Int suicide		
641	41 yr	amitriptyline	U	Ingestion	Int suicide		
642 p	43 yr	amitriptyline	U	Ingestion	Int suicide		
643 p	44 yr	amitriptyline	A/C	Ingestion	Int suicide	portriptyling 1 100 pg/ml	
644 645	47 yr 65 yr	amitriptyline	A/C	Ingestion	Int suicide	nortriptyline 1,100 ng/mL	
646	78 vr	amitriptyline	Â	Indestion	Int suicide	425 na/mL§	
647	85 yr	amitriptyline	A/C	Ingestion	Int suicide	nortriptyline 890 ng/mL§ 2,200 ng/mL§	7 h
648 ip	>19 yr	amitriptyline	A/C	Parenteral	Int abuse	nortriptyline 1,000 ng/mL§	7 h
649 p	25 yr	acetaminophen/codeine amitriptyline	А	Ingestion	Int suicide		
650 p	52 yr	acetaminophen/hydrocodone amitriptyline	U	Ingestion	Int suicide		
651	28 yr	acetaminophen/hydrocodone amitriptyline	А	Ingestion	Int suicide		
652 p	64 yr	omeprazole ^A amitriptyline	A/C	Ingestion	Int suicide	611 μg/m⊾ŧ	
050	00	acetaminophen/propoxyphene diazepam		1		000 () 0	
653 ip	38 yr	amitriptyline alprazolam	A/C	Ingestion	Unint misuse	990 ng/mL§ nortriptyline 580 ng/mL§ 78 ng/mL§	
654 p	40 yr	amitriptyline	A	Ingestion	Unknown	480 ng/mL§ nortriptyline 170 ng/mL§	
		clonazepam methadone ^A				6 ng/mL§ 7-aminoclonazepam 110 ng/mL§ 0 026 ug/mL §	
655 ip	31 yr	amitriptyline codeine	A/C	Ingestion	Unint misuse	2,200 ng/mL§ 380 ng/mL§	
656	50 yr	amitriptyline doxepin costaminophon/hydrocodopo	A/C	Ingestion	Int suicide	470 ng/m∟ş	
657	19 yr	amitriptyline	А	Ingestion	Int suicide		
658	41 yr	amitriptyline ethanol	А	Ingestion	Int suicide		
659 p	42 yr	amitriptyline	U	Ingestion	Int suicide	5,520 ng/mL§ nortriptyline 3,940 ng/mL§	
660 p	48 yr	amitriptyline	А	Ingestion	Int suicide	T64 Mg/d∟	
661	Unk	amitriptyline ethanol	А	Ingestion	Int suicide		
662	34 yr	amitriptyline gabapentin bydroxyzine	А	Ingestion	Int suicide		
663 p	40 yr	amitriptyline hydrochlorothiazide/triamterene	A/C	Ingestion	Int suicide		
664 p	42 yr	amitriptyline imipramine	A	Ingestion	Int suicide		
665 p	44 yr	amitriptyline	А	Ingestion	Int suicide		
666 ip	29 yr	amitriptyline	А	Ing/Unk	Int suicide	510 ng/mL§ nortriptyline 530 ng/mL§	
667	63 yr	methadone promethazine ^A amitriptyline metoprolol	С	Ingestion	Unknown	0.25 μg/mL§ 80 ng/mL§ 828 ng/mL	
668 ip	24 yr	amlodipine ^{**} amitriptyline	А	Ingestion	Int suicide	3,200 ng/mL§ nortriptyline 420 ng/mL§	
669	37 yr	montelukast amitriptyline	U	Ingestion	Int suicide		
670	35 yr	amitriptyline	U	Ingestion	Int suicide	1,800 ng/mL§	
).	olanzapine				nortriptyline 1,600 ng/mL§ 200 ng/mL§	4 6
671	27 yr	amitriptyline oxycodone	U	Ingestion	Int suicide	80 mg/a∟	in
672 p	41 yr	acetaminophen/oxycodone ^A amitriptyline prochlorperazine disulfiram ^A	А	Ingestion	Int unk		
673 p	16 yr	amitriptyline skeletal muscle relaxant	А	Ingestion	Int suicide		
674	47 yr	amitriptyline tramadol	А	Ingestion	Int suicide	36,000 ng/mL§# 5.9 μg/mL§	
675	53 yr	amitriptyline	A	Ingestion	Int suicide	80 ng/mL§ nortriptyline 100 ng/mL§	
		verapamil				0.26 μg/mL§ norverapamil 0.17 μg/mL§	
		zolpidem					

	. Summe	ary of ratal Exposures hepotted to	1200 11 20				
							Interval
						Blood	after
Case	Age	Substances	Chronicity	Route	Reason	Concentrations	Exposure
676 p	40 vr	amitriptyline	A/C	Ingestion	Int suicide		
		zolpidem					
677 p	40 yr	amitriptyline	A	Ingestion	Int suicide		
		clonazepam ^A					
678 ip	15 yr	bupropion	А	Ingestion	Int abuse		
679 p	38 yr	bupropion	A	Ingestion	Int suicide	1,440 ng/mL§	
		acetaminophen alprazolam				281.9 μg/mL§ .38.5 ng/mL§	
680	50 yr	bupropion	A/C	Ingestion	Int suicide	66.6 Hg/m23	
	,	lorazepam		0			
691 n	24.10	diphenhydramine	٨	Indoction	Int quioido		
001 p	24 yi	methylenedioxymethamphetamine	~	ingestion	Int Suicide		
682 p	17 yr	bupropion	A	Ingestion	Int suicide	19,500 ng/mL§	
		risperidone				174 ng/mL§#	
683	34 yr	bupropion	А	Ingestion	Int suicide	3,040 ng/mL§	
	- ,	sertraline				127 ng/mL§	
		ooffaire				norsertraline 418 ng/mL§	
684 n	29 vr	bupropion (long-acting)	А	Indestion	Int suicide		
00 . p	20).	citalopram		ingeotion			
		zolpidem ^A					
685	30 yr	bupropion (long-acting)	A	Ingestion	Int suicide		
		ethanol				274 mg/dL	
686 p	18 yr	citalopram	A/C	Ingestion	Int suicide	7,100 ng/mL§	
687 p	27 yr	citalopram	A	Ingestion	Int suicide		
000 h	STyr	industrial cleaner	A	ingestion	int suicide		
		(anionic/nonionic/glycol ethers)					
689	16 yr	citalopram	A	Asp/Ing	Int suicide		
		quetiapine activated charcoal					
690 p	25 yr	clomipramine	А	Ingestion	Int suicide	1,000 ng/mL§	
		acetaminophen/oxycodone				oxycodone 800 ng/mL§	
691	65 yr	clomipramine	A/C	Ingestion	Int suicide	310 ng/mL§	
		fluoxetine				500 ng/mL§	
						norfluoxetine 220 ng/mL§	
692 602	60's yr	desipramine	U	Ingestion	Unknown Int guioide		
093	54 yr	citalopram	A	ingestion	int suicide		
		methadone					
694	17 yr	desipramine	A/C	Ingestion	Int suicide	170 ng/mL§	
		phenytoin ^A				22 μg/mLs 12.7 μg/mL§	
695 p	17 yr	doxepin	A/C	Ingestion	Int suicide	689 ng/mL#	
696 p	22 yr	doxepin	U	Ingestion	Int suicide		
697 p	25 yr	doxepin	A/C	Ingestion	Int suicide		
699 p	42 yr	doxepin	A	Ingestion	Int suicide		
700 p	51 yr	doxepin	A	Ingestion	Int suicide		
701	53 yr	doxepin	A/C	Ingestion	Int suicide	829 ng/mL	36 h
702 p 703 p	83 yr 47 yr	doxepin	A/C A	Ingestion	Int suicide	12 000 ng/ml &	
700 p	47 yi	doxepin	7	ingestion		nordoxepin 1,000 ng/mL§	
		acetaminophen/propoxyphene				propoxyphene 1.4 μ g/mL§	
		ethanol				norpropoxyphene 1.1 μg/mL§	
704 p	45 yr	doxepin	А	Ingestion	Int suicide	50 mg/dE3	
	,	bupropion (long-acting)		0			
705 in	4 mo	clorazepate	٨	Indoction	Maliaioua	5 400 pg/ml 8	
705 lþ	4 110	carbinoxamine	A	ingestion	Malicious	0.13 µg/mL§	
		chlorpheniramine ^A				0.07 μg/mL§	
706	74 yr	doxepin	A/C	Ingestion	Int suicide	2,900 ng/mL	
		diazenam				480 ng/mL	
		motor oil				100 119,1112	
707 p	27 yr	doxepin	A/C	Ingestion	Int suicide		
		gabapentin olapzopino ^A					
708	52 yr	doxepin	A/C	Ingestion	Int suicide		
	,	gabapentin		0			
700 n	50 yr	sertraline	MC	lpg/Llpk	Int abuse	190 ng/ml	
709 p	50 yr	doxepin	AVC	ing/onk	Int abuse	nordoxepin 100 ng/mL	
		methadone				·····	
710 -	44	heroin	A/O	Ingost'	Int outstate	1 000 / 1 0	
710 p	44 yr	uoxepin methadone	A/C	ingestion	int suicide	1,900 ng/mL§ 2 9a/mL§	
		venlafaxine				400 ng/mL§	
711	33 yr	doxepin	A/C	Ingestion	Int suicide	5 5	
		quetiapine					
712 p	55 yr	doxepin	А	Ingestion	Int suicide		
		topiramate		J • • • • •			

							Interval
Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	after Exposure
713 n	36 vr	doxenin	A/C	Indestion	Int suicide		
710 p	00 yi	venlafaxine	7.0	ingestion			
714 n	18 vr	trazodone ⁿ		Linknown	Int suicide	500 ng/ml &	
714 p 715	40 yr 47 yr	fluoxetine	A	Ingestion	Int suicide	Soo ng/meg	
		quetiapine		ingeenen			
710 -	47	ibuprofen	A.(C)	la senti se	lat a data	0,100, a a (and 6	
716 p	47 yr	nuoxetine	A/C	Ingestion	Int suicide	2,100 ng/mL§ norfluoxetine 1,100 ng/mL§	
		ziprasidone				83 ng/mL	
717	40	clonazepam		la senti sen	lat avriately	10,470	
/ 1/	40 yr	Impramine	U	Ingestion	int suicide	desipramine 1.000 ng/mL§	
718	>19 yr	imipramine	Α	Ingestion	Int suicide		
719 ip	58 yr	imipramine	U	Ingestion	Int suicide		15 h
		acetaminophen/codeme				codeine 2 µg/mL§	1511
		dextromethorphan/guaifenesin/					
720	46 yr	pseudoephedrine [~]	۵	Indestion	Int suicide		
120	40 yi	amphetamine	A	ingestion			
		citalopram ^A					
721	21 yr	Impramine	A	Ingestion	Int suicide	15,000 ng/mL§ 800 ng/mL§	
722	34 yr	lithium	С	Ingestion	Ther err	2.5 mEg/L	
723	41 yr	lithium	A/C	Ingestion	Int unk	9.6 mEq/L	
724 p	50 yr	lithium	U	Ingestion	Int suicide	6.8 mFa/	
7251	51 yr 74 yr	lithium	U C	Ingestion	Adv rxn	6.8 MEQ/L	
727	86 yr	lithium	č	Ingestion	Ther err	2.8 mEq/L	
728	32 yr	lithium	A	Ingestion	Int suicide	9.2 mEq/L	
729	51 vr	valproic acid	Δ	Indestion	Int suicide	402 μg/mL 12 5 mEq/l	
125	01 yr	venlafaxine	A	ingestion		12.0 mEq/E	
730 p	24 yr	maprotiline	U	Ingestion	Int suicide		
		alprazolam risperidone ^A					
731	44 yr	mirtazapine	A/C	Ingestion	Int suicide		
	,	quetiapine		9.4			
700	20.10	ethanol	^	Indection	Int quioido	51 mg/dL	
733	>19 vr	nortriptyline	Ä	Ingestion	Int suicide		
734	36 yr	nortriptyline	A/C	Ingestion	Int suicide		
		benzodiazepine					
735 i	37 vr	nortriptyline	A/C	Ingestion	Int suicide		
	01 J.	ethanol		ingeenen			
700	70	paroxetine ^A		1	1.1		
736	72 yr	propranolol	A/C	Ingestion	Int suicide		
		zolpidem ^A					
737 p	61 yr	paroxetine	Α	Ingestion	Int suicide		
		aspirin alprazolam					
738 p	27 yr	paroxetine	U	Ing/Unk	Int suicide		
		clonazepam	-				
739	43 yr	paroxetine	С	Ingestion	Adv rxn		
		bupropion (long-acting) ^A					
740 ap	3 yr	sertraline	A	Ingestion	Malicious	1,300 ng/mL§	
741 in	27.vr	cortrolino	NC	Indection	Int quioido	norsertraline 580 ng/mL§	
741 ip	27 yr	sertraine	AVC	Ingestion	int suicide	norsertraline 1.700 ng/mL§	
		methadone				0.36 μg/mL§	
742 ip	50 yr	sertraline	A/C	Ingestion	Int suicide	970 ng/mL§	
		chlorpromazine				0.2 μg/mLs 34 ng/mL §	
743 p	54 yr	sertraline	А	Ingestion	Int suicide	0	
		olanzapine					
744	47 yr	cionazepam [*]	A/C	Indestion	Ther err		
/	<i>41</i> yi	paroxetine	RO	ingestion	THEF CH		
	0.5	quetiapine					
745	25 yr	trazodone	A	Ingestion	Int suicide		
746 p	46 yr	trazodone	А	Ingestion	Int suicide	4,438 ng/mL	
•		ethanol		0		389 mg/dL	
		isopropanol				28 mg/dL	
747	25 vr	trazodone	А	Ingestion	Int suicide	aceione 37 mg/uL	
	- ,.	olanzapine					
748 p	47 yr	tricyclic antidepressant	A/C	Ingestion	Int suicide	1,061 ng/mL	10 -
749 p 750 i	47 yr 48 yr	tricyclic antidepressant	A A/C	Ingestion	Int suicide	980 ng/mL	12 n
751 p	49 yr	tricyclic antidepressant	A/C	Ingestion	Unknown	466 ng/mL	
752	59 yr	tricyclic antidepressant	U	Ingestion	Int unk	č	
753 p	64 yr	tricyclic antidepressant	A	Ingestion	Int suicide		

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
754 p	29 yr	tricyclic antidepressant alprazolam clopazenam ^A	А	Ingestion	Int suicide	95 ng/mL	
755 p	18 yr	tricyclic antidepressant benzodiazepine opioid ^A	U	Ing/Unk	Int unk		
756	22 yr	tricyclic antidepressant fluoxetine	А	Ingestion	Int suicide		
757 p	19 yr	tricyclic antidepressant opioid benzodiazepine	A/C	Ingestion	Int suicide		
758 p	42 yr	tricyclic antidepressant pentobarbital guarana/ma huang/other botanicals	U	Ingestion	Int suicide		
759 p	52 yr	tricyclic antidepressant propoxyphene	U	Ingestion	Unknown		
760	25 vr	venlafaxine	U	Ingestion	Int suicide		
761 a	33 yr	venlafaxine	A	Ingestion	Int suicide	66,000 ng/mL§ norvenlafaxine 4,000 ng/mL§	
762	44 yr	venlafaxine	A/C	Ingestion	Int suicide		
763	51 yr	venlafaxine celecoxib paroxetine	A	Ingestion	Int suicide	45,000 ng/mL§	
764	49 yr	venlafaxine	А	Ingestion	Int suicide	3,800 ng/mL norvenlafaxine 480 ng/mL	
765	40's yr	etnanoi venlafaxine ethanol methamphetamine ^A	А	Ing/Unk	Int unk	90,400 ng/mL§	
766 ip	28 yr	venlafaxine phenelzine	A/C	Ingestion	Adv rxn	800 ng/mL§	
767	25 yr	venlafaxine (long-acting) bupropion (long-acting)	А	Ingestion	Int suicide	500 hg/mes	
768 p	52 yr	venlafaxine (long-acting)	A/C	Ingestion	Int suicide	340 mg/dL	
See also c	ases 94, 283,	364, 365, 552, 821, 848, 859 (amitri	ptyline); 278 (amitrip	tyline/perphenazir	ne); 407, 515, 620, 79	4, 807, 905, 946 (bupropion); 318, 704, 7	739, 767

See also cases 94, 283, 364, 355, 552, 821, 848, 659 (amitriplyline); 279 (amitriplyline); 279 (amitriplyline); 279 (amitriplyline); 279, 303 (bupropion (long-acting)); 131, 480, 524, 620, 632, 684, 693, 720, 797, 804, 830, 845, 871, 905, 982, 998, 1007 (citalopram); 536, 656, 922, 1104 (doxepin); 279, 303 thru 305, 517, 617, 628, 681, 756, 805, 897, 985, 1008, 1110 (fluoxetine); 664 (imipramine); 95, 309, 630, 631 (lithium); 840 (loxapine); 511 (mitrazpine); 632 (nefazodone); 213, 766 (nortriptyline); 21, 465, 505, 519, 735, 744, 763, 775, 805, 836, 842, 947, 961, 973, 1011 (paroxetine); 766 (phenelzine); 539, 603, 631, 682, 683, 708, 721, 877, 947, 986 (sertraline); 23, 299, 384, 551, 563, 618, 713, 780, 864, 948, 1119 (trazodone); 310, 392, 571, 609, 863, 1129 (tricyclic antidepressant); 221, 315, 411, 540 thru 542, 580, 592, 593, 621, 710, 713, 729, 803, 809, 864, 879, 906, 987, 992, 1003 (venlafaxine); 412 (venlafaxine (long-acting)).

Antihistamii	nes					
769 p	18 yr	diphenhydramine	Α	Ingestion	Int suicide	
770 p	19 yr	diphenhydramine	A	Ingestion	Int suicide	
771 p	30 yr	diphenhydramine	Α	Ingestion	Int suicide	
772 p	46 yr	diphenhydramine	A	Ingestion	Int suicide	
773	86 yr	diphenhydramine	A	Ingestion	Int suicide	
774 p	36 yr	diphenhydramine	A	Ingestion	Int suicide	
		acetaminophen		•		950 μg/mL
775	30 yr	diphenhydramine	A	Ingestion	Int suicide	
	-	acetaminophen paroxetine ^A		-		84 μg/mL
776 ip	33 yr	diphenhydramine aspirin/butalbital/caffeine marijuana ^A	A/C	Ing/Unk	Int suicide	
777	18 yr	diphenhydramine diazepam	A	Ingestion	Int suicide	8.4 μg/mL 7,800 ng/mL
778	30's yr	diphenhydramine	Α	Ingestion	Int suicide	, Ç
	-	doxylamine diphenhydramine ^A		-		24 μg/mL§
779 p	25 yr	diphenhydramine pseudoephedrine ibuprofen	A	Ingestion	Int suicide	
780 p	41 yr	diphenhydramine trazodone	A/C	Ingestion	Int suicide	
781	19 yr	meclizine acetaminophen/propoxyphene	A	Ingestion	Int suicide	
700	01	an and a state of the second sec	^	la a a atta a	last av dadala	

 782
 21 yr
 promethazine
 A
 Ingestion
 Int suicide

 See also cases 893 (brompheniramine); 705 (carbinoxamine); 53, 479, 511, 705 (chlorpheniramine); 977 (cimetidine); 18, 209, 288, 317, 451, 464, 520, 542, 603, 680, 778, 821, 833, 896, 930, 969, 1017, 1022, 1106 (diphenhydramine); 778 (doxylamine); 662, 887, 977 (hydroxyzine); 156, 486, 564, 593, 666, 931 (promethazine).

Antimicrobials 783 a	30 d	amphotericin B	A	Parenteral	Adv rxn	
784 785 786 ap	48 yr 33 yr 47 yr	ciprofloxacin tilmicosin tilmicosin	C A A	Parenteral Parenteral Parenteral	Ther err Int suicide Int suicide	
·	-	flunixin				
Antineoplastics						
787	67 yr	hydroxyurea methotrexate	С	Ingestion	Ther err	
788 a	49 yr	vincristine	U	Oth/Paren	Ther err	
See also case 7	787 (metho	trexate)				
Asthma therapi	es					
789	50 yr	theophylline	С	Ingestion	Ther err	30 μg/mL
790	59 yr	theophylline	A/C	Ingestion	Int suicide	118.4 µg/mL

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
791	66 vr	theophylline	C	Indestion	Ther err	33.6 µg/ml	
792	76 yr	theophylline	č	Ingestion	Ther err	36.8 μg/mL	
793	91 yr	theophylline	A/C	Ingestion	Int misuse	82 µg/mL	
794	20 yr	theophylline bupropion beroin	A/C	Ing/Inh	Int suicide	105 μg/mL	
795	60 yr	theophylline fentanyl patch	A/C	Derm/Ing	Int misuse	30 µg/mL	
796	60 yr	oxycodone ^A theophylline lisinopril	A/C	Ingestion	Int suicide	129.9 μg/mL	
See also ca	se 668 (mon	ethanol telukast).				5 mg/dL	
Cardiovasci	ular drugs						
797	32 yr	acebutolol acetaminophen/hydrocodone	A	Ingestion	Int suicide		
798 a	77 yr	amiodarone	С	Ingestion	Ther err		
799	89 yr	amlodipine	A/C	Ingestion	Ther err		
800	38 yr	amlodipine	A/C	Ing/Unk	Int suicide	1.7 μg/mL	
801	42 yr	amlodipine isosorbide mononitrate	А	Ingestion	Int suicide		
802	85 yr	amlodipine	A/C	Ingestion	Int suicide		
000	70	lovastatin			1.1.1.1.1.1.1.		
803	76 yr	amiodipine metoprolol	A/C	Ingestion	Int suicide		
		venlafaxine ^A					
804	46 yr	amlodipine	A/C	Ingestion	Int suicide		
		citalopram ^A					
805	62 yr	amlodipine	A	Ingestion	Int suicide		
		paroxetine fluoxetine ^A				418 ng/mL 234 ng/ml	
		Indoxetine				norfluoxetine 70 ng/mL	
806	48 yr	amlodipine	A	Ingestion	Int suicide	0.58 μg/mL§	
		propranolol lorazenam ^A				2.1 μg/mL§	
807	76 yr	atenolol	A/C	Ingestion	Int suicide	25 μg/mL§	
		amlodipine				0.88 μg/mL§	
a 808 p	39 vr	atenolol	A/C	Indestion	Int suicide	400 hg/mL§	
).	ketoprofen					
800	22 yr	oxazepam	٨	Indection	Int suicide		
003	22 yi	venlafaxine	~	Ingestion	int suicide		
		lorazepam ^A					
810 811	55 yr 49 yr	clonidine	A A/C	Ingestion	Int suicide		
011	40 yi	amlodipine	RO	ingestion			
010	10	atenolol ^A		1	1.1.1.1.1.1.1.		
812	43 yr	cionidine	A/C	Ing/Unk	Int suicide		
		benzodiazepine					
813	70 yr	digoxin	C	Ingestion	Ther err	4.1 ng/mL	
815 n	70 S yr 71 vr	digoxin	Č	Ingestion	Adv rxn	3.5 ng/mL	
816	79 yr	digoxin	č	Ingestion	Unknown	3.5 ng/mL	
817	82 yr	digoxin	С	Ingestion	Ther err	7.5 ng/mL	
818	87 yr	digoxin	C	Ingestion	Ther err	5 ng/mL	
819	89 yr 99 yr	digoxin	C	Ingestion	Adv rxn Ther err	2.3 ng/mL 2.2 ng/ml	
821	59 yr	digoxin	Ă/C	Ingestion	Int suicide	0.75 ng/mL§	
	-	amitriptyline		-		160 ng/mL§	
		diphenhydramine ^A				0.28 µg/mL§	
822	87 yr	digoxin	С	Ingestion	Ther err	3.3 ng/mL	
803	71 vr	atenolol	٨	Indection	Int suicide		
020	7 1 91	clorazepate	~	ingestion			
824	26 yr	diltiazem	A/C	Ingestion	Int suicide		
825 p 826	44 yr 58 yr	diltiazem	A/C	Ingestion	Int suicide		
827	55 yr	diltiazem	A/C	Ingestion	Int suicide		
	-	atenolol		-			
828	30 vr	lisinopril'` diltiazem	Δ	Indestion	Int suicide		
020	00 yr	benazepril					
000		simvastatin		1	1.1.1.1.1.1.1	/	
829 p	44 yr	alitiazem captopril	A/C	Ingestion	Int suicide	7.7 μg/mL§	
		ethanol				23 mg/dL	
830	81 yr	diltiazem	A/C	Ingestion	Int suicide		
831	69 vr	citalopram diltiazem	Δ	Indestion	Int suicide		
001	00 yi	clonidine	~	ingeolion			

TABLE 21.	Summar	y of Fatal	Exposures	Reported to	TESS in 2002	(Continued)
-----------	--------	------------	-----------	-------------	--------------	-------------

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
832	91 yr	diltiazem digoxin	A/C	Ingestion	Ther err	4.8 ng/mL	
833	55 yr	warfarin ^A diltiazem diphenhydramine	А	Asp/Ing	Int suicide	0.16 µg/mL§	
834	84 yr	activated charcoal diltiazem	U	Ingestion	Int suicide		
835 p	52 yr	diltiazem	A/C	Ingestion	Int suicide		
836	60 yr	diltiazem	А	Ingestion	Int suicide		
837	72 yr	diltiazem	А	Ing/Paren	Ther err		
838 839	40's yr 73 yr	propranolol diltiazem (long-acting) diltiazem (long-acting) isosorbide mononitrate	A/C A/C	Ingestion Ingestion	Int suicide Int suicide		
840	48 yr	lisinopril diltiazem (long-acting) loxapine	А	Ingestion	Int suicide		
841	32 yr	diltiazem (long-acting)	A/C	Ingestion	Int unk		
842	50 yr	diltiazem (long-acting)	A/C	Ingestion	Int suicide		
843	44 yr	enalapril	A/C	Ingestion	Int suicide		
844	34 yr	metoprolol acetaminophen aspirin ^A	A/C	Ingestion	Int suicide	77 μg/mL 50 mg/dL	
845	54 yr	metoprolol citalopram indoramin ^A	A/C	Ingestion	Int suicide	-	
846 p	16 yr	metoprolol	А	Ingestion	Int suicide		
847	50 yr	metoprolol (long-acting) amiodarone	A/C	Ingestion	Int suicide		
848	48 yr	metoprolol (long-acting)	А	Ingestion	Int suicide	1 200 ng/ml	
849	61 yr	metoprolol (long-acting)	A/C	Ingestion	Ther err	1,200 hg/mL	
850	47 yr	metoprolol (long-acting) ethanol	A/C	Ingestion	Int suicide		
851 ap	16 mo	nifedipine	A	Ingestion	Unint gen		
852 853	65 yr 91 yr	nifedipine amiodarone	A/C A	Asp/Ing	Int suicide		
854	55 yr	activated charcoal nifedipine	U	Ingestion	Int suicide		
855	49 yr	atenolol nifedipine lisinopril	А	Ingestion	Int suicide		
856 a 857 a	38 yr 59 yr	naproxen nifedipine (long-acting) propafenone	A A/C	Ingestion Asp/Ing	Ther err Unknown		
858	46 yr	activated charcoal propranolol	А	Ingestion	Int suicide		
859 p	36 yr	propranolol amitriptyline carisoprodol ^A	A/C	Ingestion	Int suicide		
860	27 yr	propranolol chlorpromazine ethanol ^A	A/C	Ing/Inh	Int suicide	2.1 μg/mL§ 140 ng/mL§ 110 ma/dL§	
861	42 yr	propranolol ethanol	A/C	Ingestion	Int unk		
862 ap	29 yr	propranolol iron polysaccharide	А	Ingestion	Int suicide	13 μg/mL§ 15 000 μg/dL§	
863	47 yr	propranolol	A/C	Ingestion	Int suicide	10,000 µg/aLg	
864 p	53 yr	propranolol venlafaxine	А	Ingestion	Int suicide	200 μg/mL§ 200 μg/mL§ 490,000 ng/mL§ norvenlafaxine 2,600 ng/mL§	
a 298	40 vr	trazodone ^A verapamil	А	Ingestion	Int suicide	4,100 ng/mL§ 10 µg/mL	
866	47 yr	verapamil	A/C	Ingestion	Ther err	. o µg,	
867 p 868	63 yr 36 yr	verapamil verapamil acetaminophen/butalbital	A A/C	Ingestion Ingestion	Int suicide Int suicide		
869	45 yr	propranolol (long acting) [~] verapamil alprazolam	A/C	Ingestion	Int suicide		
870	50's yr	verapamil amlodipine ziprasidone	A/C	Ingestion	Int suicide		
871	45 yr	verapamil atenolol citalopram	A	Ingestion	Int suicide	0.58 μg/mL§	

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
872	45 yr	verapamil	А	Ingestion	Int suicide		
873 a	24 yr	benzodiazepine verapamil	A/C	Ingestion	Int suicide		
874	39 yr	captopril verapamil	А	Ingestion	Int suicide		
875	50 yr	ethanol verapamil	A/C	Ingestion	Int suicide		
876	83 yr	ibuprofen verapamil	A/C	Ingestion	Int suicide		
877	73 yr	propranolol verapamil sertraline	A/C	Ingestion	Int suicide		
878 p	55 yr	lisinopril verapamil valproic acid	A/C	Ingestion	Int suicide		
879	28 yr	acetaminophen/propoxyphene ^A verapamil venlafaxine	U	Ing/Unk	Int suicide	64.2 μg/mL¥	
880	43 yr	bupropion ⁴ verapamil ziprasidone	А	Ingestion	Int suicide		
881	14 yr	verapamil (long acting)	А	Ingestion	Int suicide	1.9 μg/mL§	
882	42 yr	verapamil (long-acting)	A/C	Ingestion	Int suicide	0.435 μg/mL	
883	58 yr	verapamil (long-acting)	A/C	Ingestion	int misuse	5.54 μg/mL norverapamil 2.49 μg/mL	
884	77 yr	verapamil (long-acting)	A/C	Ingestion	Ther err		
885	78 yr	verapamil (long-acting)	A	Ingestion	Int suicide		
880	>19 yr	verapamii (iong-acting)	A	Ingestion	Unknown		
887	40 yr	verapamii (iong-acting) hydroxyzine ethanol	A/C	Ingestion	int suicide		
888	18 yr	verapamil (long-acting) metoprolol carburetor cleaner (methanol/methylene chloride/ toluene)	A	Ingestion	Int suicide		
889	38 yr	verapamil/trandolapril methylphenidate	А	Ingestion	Int suicide		
890	47 yr	verapamil/trandolapril (long-acting) ethanol	A/C	Ingestion	Int suicide		
See also cas (benazepril); (hydrochloro (lisinopril/hyd 850 (ramipril) Cold and co	ses 1113 (ac 829, 873 (c thiazide/val drochlorothi); 828 (simv ugh prepara	zebutolol); 847, 853 (amiodarone); 667, 80 aptopril); 381, 831 (clonidine); 560, 832 (d sartan); 845 (indoramin); 801, 840 (isosorb azide); 802 (iovastatin); 606, 667, 803, 886 astatin); 675 (verapamil). ations	7, 811, 870, 10 igoxin); 849 (dil ide dinitrate); 8 3 (metoprolol); 6	10 (amlodipine); 4 tiazem (long-actin 39 (isosorbide mo i69 (nitroglycerin);	48 (amlodipine/benaz g)); 54, 616 (doxazosi nonitrate); 796, 827, 8 590, 736, 806, 837, 8	epril); 664, 811, 822, 827, 854, 871 (ate n); 834 (enalapril); 304 339, 855, 877 (lisinopril); 19 376 (propranolol); 868 (propranolol (long	enolol) 828 g acting));
891 ai	4 mo	brompheniramine/pseudoephedrine	А	Ingestion	Ther err	brompheniramine 0.86 μ g/mL§ pseudoephedrine >10 μ g/mL§	
892	15 yr	chlorpheniramine/dextromethorphan ethanol morphine	A	Ingestion	Int abuse		
893 ap	3 yr	chlorpheniramine/dextromethorphan/ pseudoephedrine	A	Ingestion	Unint gen	chlorpheniramine 0.04 μg/mL§ dextromethorphan 0.009 μg/mL§ pseudoephedrine 4.8 μg/mL§ 0.19 μg/mL§	
894 an	2 vr	chlorpheniramine/hydrocodone	Α	Indestion	Ther err	0.10 µg/1123	
895 n	51 vr	promethazine/dextromethorphan	A	Indestion	Int suicide		
896	24 yr	pseudoephedrine ephedrine	Ŭ	Ing/Unk	Int unk	0.002 μg/mL§	
See also cas dextrometho medication);	ses 273 (ace prphan/pseu 779, 1077	diphenhydramine ²⁴ etaminophen/anthistamine/decongestant); doephedrine); 694 (dextromethorphan); 71 (pseudoephedrine). chals/homeopathic	275 (acetamino 19 (dextrometho	ophen/dextrometh orphan/guaifenesir	orphan/doxylamine/ps /pseudoephedrine); 4	0.004 μg/mL§ seudoephedrine); 936 (acetaminophen/ 79 (guaifenesin); 280 (other cough/cold	doxylamine/

Dietary Supple	inents/nerb	ais/nomeopathic					
897 p	34 yr	guarana/ma huang/other botanicals ethanol fluovetine	С	Ingestion	Int abuse	ephedrine 0.42 μg/mL	
898 See also case	40 yr s 987 (ephe	unknown herbal supplement dra); 758 (guarana/ma huang/other botanica	U als).	Ingestion	Adv rxn	norfluoxetine 270 ng/mL	
Diuretics 899	82 yr	furosemide acetaminophen alprazolam	A	Ingestion	Int suicide	164.7 μg/mL	4 h
See also case	663 (hydrod	chlorothiazide/triamterene).					
Electrolytes an 900 a See also case	nd minerals 59 yr s 308, 590 (iron dextran iron); 862 (iron polysaccharide).	A	Parenteral	Ther err	1,897 μg/dL	
Gastrointestin 901 p	al preparatic 40's yr s 414 (dicyc	ons diphenoxylate/atropine :lomine); 116 (diphenoxylate/atropine); 651 (A omeprazole);	Ingestion 95 (orlistat).	Int suicide		

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
Hermonee	and hormon						
902	45 vr	corticosteroid	С	Indestion	Adv rxn		
903	27 yr	glyburide metformin	A	Ingestion	Int suicide		
904	69 yr	ethanol insulin benzodiazepine	A/C	Ing/Paren	Int suicide		
905 p	53 yr	rodenticide insulin burropion	A/C	Ing/Paren	Int suicide		
906	54 yr	citalopram ^A insulin	А	Ing/Paren	Malicious	24 µU/mL	
907	24 yr	venlafaxine insulin	A/C	Paren/Unk	Int suicide		
908 a	48 yr	phencyclidine levothyroxine	U	Ingestion	Int misuse		
000		olanzapine valproic acid	0		71		
909	64 yr	metformin	C	Ingestion	Iner err		
910	69 yr	metformin	C C	Ingestion	Adv rxn		
012	70 yr	metformin	Č	Ingestion	Ther err		
913	77 yr	metformin	č	Indestion	Adv rxn		
914	75 yr	metformin	Ċ	Ingestion	Adv rxn	25 μg/mL 46 μg/ml	
915 p	78 yr	metformin alipizide	A/C	Ingestion	Int suicide	φμgrine	
		acarbose ^A					
916	47 yr	metformin glipizide	A/C	Ingestion	Int suicide	91 μg/mL§ 3.2 μg/mL§	
917	44 yr	ethanol ^c metformin	A/C	Ingestion	Int suicide	41 mg/dL	
See also ca	ases 915, 91	olanzapine ^A 6 (glipizide); 999 (glipizide (long-acting))	; 539 (levothyroxir	ne); 841, 903, 999	(metformin).		
Miscellane	ous druas						
918 a	21 vr	disulfiram	С	Indestion	Adv rxn		
919 a	17 yr	quinine	A	Ingestion	Int unk	14 μg/mL	
920 See also ca	65 yr ases 915 (ac	sildenafil arbose); 672 (disulfiram).	A	Ingestion	Adv rxn		
	```						
Muscle rela 921	axants 64 yr	baclofen	U	Ingestion	Int suicide		
922 p	64 yr	cionazepam baclofen quetiapine	A/C	Ingestion	Int suicide		
923 p	37 yr	doxepin ^A carisoprodol	A/C	Ingestion	Int suicide		
924 p	40 yr	carisoprodol	U	Ingestion	Int suicide		
925	18 yr	carisoprodol acetaminophen	А	Ingestion	Int suicide	46 μg/mL	
926 p	45 yr	carisoprodol acetaminophen/hydrocodone	А	Ingestion	Int suicide		
927 p	44 yr	carisoprodol alprazolam	A/C	Ingestion	Int suicide		
928 p	50 yr	carisoprodol alprazolam ethanol	A	Ingestion	Int suicide		
929	18 yr	carisoprodol	U	Ingestion	Int suicide		
930 ip	23 yr	carisoprodol	А	Ingestion	Int suicide	20 μg/mL§ meprobamate 5 97 μg/mL§	
		diphenhydramine hydrocodone ^A				13.9 μg/mL§ 180 ng/mL§	
931	47 yr	carisoprodol promethazine	A/C	Ingestion	Int suicide	0 0	
932	46 yr	cyclobenzaprine	A/C	Ingestion	Ther err		
933	51 yr	cyclobenzaprine	С	Ingestion	Int misuse		
934 ip	48 yr	cyclobenzaprine bultalbital	A/C	Ingestion	Int misuse	200 ng/mL§	
935	32 yr	alprazolam cyclobenzaprine	А	Ing/Unk	Int suicide	41 ng/mL§	
936	29 yr	cocaine cyclobenzaprine oxycodone acetaminophen/doxylamine/ dextromethorphan/ peoudenshedringA	A/C	Ingestion	Int abuse		
See also ca muscle rela	ases 362, 36 axant); 412, 5	3, 368 thru 372, 474, 478, 503, 554, 57 91 (tizanidine).	7, 597, 859, 943,	957 (carisoprodol)	; 382, 383, 562, 582, 9	929, 997, 1105 (cyclobenzaprine); 673	(skeletal
Sedative/h	ypnotics/anti	psychotics					
937	30 yr	alprazolam	A	Ingestion	Int unk		
938 p	32 yr	alprazolam	A/C	Ingestion	Int suicide		
939 940 p	40 yr 44 yr	alprazolam alprazolam	U A	Ingestion Ingestion	Int suicide Int suicide		

0		0.1.1		D. I.	D	Blood	Interval after
Case	Age	Substances	Chronicity	Route	Reason	Concentrations	Exposure
941	24 yr	alprazolam acetaminophen hydrocodone	U	Ingestion	Unknown	28.8 μg/mL	
942 ip	27 yr	alprazolam	U	Ingestion	Unknown		
943 p	60 yr	alprazolam	A/C	Ingestion	Int suicide		
944 ip	27 yr	carisoprodol alprazolam diazepam	A	Ingestion	Int suicide	460 ng/mL§ 120 ng/mL§ nordiazepam 90 ng/mL§	
945 p	54 vr	morphine alprazolam	U	Ingestion	Int suicide		
946 p	47.yr	ethanol	- A/C	Ing/Link	Int suicide	180 mg/dL	
940 p	47 yi	methadone bupropion ^A	AC	ing/onk		0.36 μg/mL§	
947	51 yr	alprazolam paroxetine sertraline	A/C	Ingestion	Int suicide		
948 p	54 yr	alprazolam	A/C	Ingestion	Int suicide		
949	72 yr	alprazolam	A/C	Ingestion	Int suicide		
		zolpidem acetaminophen/hydrocodone ^A					
950 951	56 yr 62 yr	barbiturate barbiturate	A	Ingestion	Int suicide		
551	02 yi	opioid valproic acid	~	ing/onix			
952 p	44 yr	barbiturate opioid	А	Ing/Unk	Int unk		
953 p	34 yr	benzodiazepine	А	Ingestion	Int suicide		
954 p	32 yr	opioid benzodiazepine	U	Ingestion	Int suicide		
		opioid barbiturate					
955	22 yr	opioid cocaine	U	Ing/Oth/Unk	Int suicide		
956	37 yr	buspirone olanzapine benztronine ^A	А	Ingestion	Int suicide		
957 ip	28 yr	butalbital meprobamate	U	Unknown	Int unk	0.53 μg/mL§ 10 μg/mL§	
958 ai	4 mo	chloral hydrate	А	Ingestion	Adv rxn	trichloroethanol 24 $\mu$ g/mL	3 h
959 p 960	46 yr 43 yr	chloral hydrate chloral hydrate	A A	Ingestion Ingestion	Int suicide Int suicide	trichloroethanol 5,300 $\mu$ g/mL§	
961	44 yr	ethanol chlorpromazine paroxetine	А	Ingestion	Int suicide	80 mg/dL§	
962 p	25 yr	clonazepam	А	Ingestion	Int unk		
963	24 yr	clozapine	A/C	Ingestion	Int suicide		
964	43 yr	clonazepam heroin methadopo	A/C	Ing/Paren	Unknown		
965 p	58 yr	clorazepate	А	Ingestion	Int suicide		
966 067 p	40's yr	clozapine	A/C	Ingestion	Ther err		
967 p	39 yr	acetaminophen/hydrocodone	U	Ingestion	int unk		
968 p	47 yr	diazepam	A/C	Derm/Ing	Ther err	55 ng/mL§	
		acetaminophen/propoxyphene				nordiazepam 105 ng/mL§ propoxyphene 0.05 µg/mL§ norpropoxyphene 0.05 µg/mL§	
969 in	33 vr	acetaminophen/hydrocodone ^A		Unknown	Unknown	hydrocodone 10 ng/mL§	
909 lh	33 yr	diphenhvdramine	0	Unknown	UNKNOWN	nordiazepam 160 ng/mL§ 0.06 μg/mL§	
970 p	53 yr	methamphetamine ^A	A/C	Indestion	Unknown	0.81 µg/mL§	
570 p	00 yi	flurazepam	A/8	ingestion			
971	82 yr	diazepam lorazepam	A/C	Ingestion	Int suicide		
972 p	33 yr	diazepam	U	Ing/Inh	Int suicide	1,200 ng/mL§ nordiazepam 600 ng/mL§	
		propoxyphene ^A					
973 ip	42 yr	diazepam	А	Ingestion	Int abuse	99 ng/mL§ nordiazepam 150 ng/mL§	
		parozetine ethanol				240 ng/mL§ 448 ma/dl &	
974	43 yr	fluphenazine	A	Ingestion	Int suicide	- to my, dLg	
310	≫ ı⊎ yr	benztropine	U	ingestion			
		valproic acio				18 μg/mL	

							Interval
Case	Ane	Substances	Chronicity	Boute	Beason	Blood	after Exposure
0000	, igo	Cubblanood	onnonnonty	Tiouto	1000011	Concentrations	Exposure
976	19 yr	haloperidol risperidone valoroic acid	A	Parenteral	Adv rxn		
977 p	75 yr	lorazepam hydroxyzine	A	Ingestion	Int suicide		
978 p	12 vr	olanzapine	А	lna/Unk	Int suicide		
979 p	34 yr	olanzapine	A/C	Ing/Unk	Int unk		
980	47 yr	olanzapine	A	Asp/Ing	Int suicide		
		activated charcoal ethanol ^A				194 ma/dl	
981	31 yr	olanzapine aspirin	A	Asp/Ing	Int suicide	310 ng/mL 10.4 mg/dL	6 h 6 h
982 p	47 yr	ziprasidone olanzapine citalopram	A/C	Ingestion	Int suicide		
983 p	30's yr	olanzapine	U	Unknown	Int unk	872 ng/mL§	
		codeine propoxyphene				1.07 μg/mL§ 0.1 μg/mL§ norpropoxyphene 1.76 μg/mL§	
984	42 yr	olanzapine	A/C	Ingestion	Int unk	neibieber/Jhnene in e #8/m23	
005	00	ethanol		1	1.1.1.1.1.1.1.		
985 p	30 yr	olanzapine fluoxetine	U	Ingestion	Int suicide	180 ng/mL§ 260 ng/mL§ norfluoxetine 120 ng/mL§	
986 n	44 yr	unknown drug olanzapine	ш	Indestion	Int suicide		
500 p	44 yi	sertraline	0	ingestion	int Suicide		
~~~	10	alprazolam					
987	43 yr	olanzapine venlafaxine ephedra	U	Ingestion	int suicide		
988 ap	50 yr	pentobarbital	A	Unknown	Int suicide		
989	65 yr	pentobarbital	A	Parenteral	Int suicide		
990	57 yr	acetaminophen/codeine	U	Ingestion	int suicide		
991	77 yr	phenobarbital diazepam	A/C	Ingestion	Int suicide	242 μg/mL	
992	46 yr	phenobarbital oxcarbazepine venlafaxine ^A	A	Ingestion	Int suicide		
993	43 yr	phenobarbital	A/C	Ingestion	Int suicide	58 μg/mL	1 d
		tramadol				20	1.4
994	25 yr	quetiapine	А	Ingestion	Int suicide	29 µg/me	1 u
995	41 yr	quetiapine	A/C	Ingestion	Int unk		
996 997	82 yr 42 yr	quetiapine	A A	Ingestion	Int suicide		
007	12 91	cyclobenzaprine clonazepam ^A		ing, on it			
998	37 yr	quetiapine ethanol citalopram ^A	A/C	Ing/Unk	Int suicide	1,200 ng/mL§ 324 mg/dL	
999	36 yr	quetiapine	A/C	Ingestion	Unint gen		
1000 p	20.1/	glipizide (long-acting) metformin ^A		Indestion	Int quicido	4 000 ng/ml 6	
1000 p	55 yi	oxcarbazepine olanzapine ^A	NO	ingestion		4,500 fig/mLg	
1001	19 yr	quetiapine phencyclidine valproic acid ^A	A/C	Ing/Inh	Int suicide		
1002	20 yr	quetiapine risperidone	A	Ingestion	Int suicide	16,200 ng/mL	
1003	23 yr	valproic acid quetiapine venlafaxine	A/C	Ingestion	Int suicide	36 μg/mL	
1004 p	8 mo	secobarbital	A	Unknown	Unknown		
1005	84 yr	temazepam	A	Ingestion	Int suicide		
1000 p	19 yr	temazepam	U	Ingestion	Malicious		
		citalopram		3		0.1	
1008	80 vr	temazepam	A/C	Ingestion	Int suicide	520 ng/mL§	
	,	fluoxetine chlorpromazine ^A				100 ng/mL§ 700 ng/mL§	
1009	30's yr	unknown sleep aid ethanol	A	Ingestion	Int suicide		
1010	24 yr	ziprasidone amlodipine	A/C	Ingestion	Int suicide	260 ng/mL	
1011 p	38 yr	ziprasidone	А	Ingestion	Int suicide		
		paroxetine methadone ^A					
1012	42 yr	ziprasidone	A/C	Ingestion	Int suicide		
1012 -	06	quetiapine	۸	Ingestion	Int unle		
1013 p 1014	36 yr 46 vr	zolpidem zolpidem	A	Ingestion	Int unk Int suicide		
-	.,	acetaminophen/hydrocodone aspirin/pentazocine ^A	-	<u>.</u>			

Serums, toxoids, vaccines

#### TABLE 21. Summary of Fatal Exposures Reported to TESS in 2002 (Continued)

Case	Age	Substances	Chronicity	Route	Reason	Inten Blood afte Concentrations Expos	val er sure
1015 p	34 yr	zolpidem acetaminophen/propoxyphene	А	Ingestion	Int suicide		
1016 p	43 yr	zolpidem alprazolam methadone	U	Ingestion	Int unk		
1017 p	89 yr	zolpidem diphenhydramine	U	Ingestion	Int suicide		
1018	79 yr	zolpidem	A/C	Ingestion	Int suicide	1,600 ng/mL§	

ethanol See also cases 35, 281, 282, 363, 372, 380, 403, 404, 464, 466, 477, 506 thru 509, 534, 550, 551, 558, 575 thru 578, 588, 592, 601, 653, 679, 730, 737, 754, 869, 899, 927, 928, 934, 986, 1016, 1096 (alprazolam); 14, 367, 570, 954, 1055, 1129 (barbiturate); 14, 20, 291, 367, 532, 553, 570, 734, 755, 757, 812, 872, 904, 1055, 1056, 1062, 1066, 1076, 1103 (benzodiazepine); 934 (bultalbital); 879 (bupropion); 624 (chloral hydrate); 373, 510, 711 (chlordiazepoxide); 742, 860, 1008 (chlorpromazine); 293, 374, 480, 512, 535, 579, 580, 634, 654, 677, 716, 738, 743, 754, 880, 921, 997 (clonazepam); 704, 823 (clorazepate); 963 (clozapine); 93, 375, 376, 391, 458, 466, 482, 513 thru 519, 525, 556, 557, 583, 584, 589, 598, 599, 602, 606, 652, 706, 777, 906, 944, 967, 991, 1079, 1143, (diazepam); 970 (flurazepam); 21, 282, 319, 327, 378, 446, 560, 680, 800, 809, 971 (lorazepam); 477, 554, 957 (meprobamate); 96, 530, 531, 618, 621, 670, 707, 743, 747, 804, 835, 908, 917, 956, 1000 (olanzapine); 808 (oxazepam); 758 (pentobarbital); 311, 629 (phenobarbital); 672 (prochlorperazine); 116, 538, 579, 601, 610, 633, 689, 691, 711, 715, 731, 744, 917, 922, 1012 (quetiapine); 23, 309, 634, 682, 730, 739, 976, 1002 (risperidone); 847, 1118 (temazepam); 624, 716, 870, 880, 981 (ziprasidone); 305, 316, 568, 675 thru 677, 684, 685, 736, 949 (zolpidem).

1019	2 yr	antivenom, Centruroides Centruroides sculpturatus	A	Bite/sting/ Paren	Adv rxn	
Stimulants	and street dr	uas				
1020	39 yr	amphetamine	А	Parenteral	Int abuse	
1021 p	39 yr	amphetamine	А	Unknown	Int abuse	
1022 p	17 ýr	amphetamine	A	Ingestion	Int abuse	0.56 μg/mL§
		diphenhydramine				0.04 µg/mL§
1022	Link	amphotominos		Linknown	Unknown	0.01 µg/mL§
1023 1024 ain	UNK 16 vr	amphetamines	0	Acp/lpg		
1024 alp	22 yr	cocaine	~	Asp/ing		
1025 p	22 yr	cocaine	$\widehat{\Delta}$	Ingestion	Int misuse	
1020 1027 n	20 yr	cocaine	i i	Ingestion	Int misuse	0.62 µg/ml
1027 p	24 91	cocane	0	ingestion		ecgoninemethylester 4.3 μg/mL benzovlecgonine 3.5 μg/mL
1028	24 vr	cocaine	А	lna/lnh	Int misuse	
1029	25 vr	cocaine	A	Inhalation	Int abuse	
1030 p	26 vr	cocaine	A	Parenteral	Int unk	
1031	26 vr	cocaine	A	Ingestion	Int misuse	
1032	26 vr	cocaine	A	Ingestion	Int misuse	
1033 p	27 vr	cocaine	A	Indestion	Int abuse	
1034 ip	27 vr	cocaine	U	Unknown	Int unk	
1035 i	29 vr	cocaine	Ā	Unknown	Int abuse	0.22 µg/mL
1036 p	33 vr	cocaine	Ü	Unknown	Int abuse	p.g.
1037	34 vr	cocaine	ū	Unknown	Int abuse	
1038	34 vr	cocaine	Ă	Ingestion	Int misuse	
1039	36 vr	cocaine	A/C	Inhalation	Int abuse	
1040	38 vr	cocaine	A	Unknown	Int suicide	
1041	38 vr	cocaine	A	Ingestion	Int misuse	
1042	39 vr	cocaine	Û	Parenteral	Int abuse	
1043	40 vr	cocaine	Ã/C	Unknown	Int abuse	
1044	40 vr	cocaine	ii ii	Unknown	Unknown	
1045 i	46 vr	cocaine	č	Unknown	Int unk	
1046 p	47 vr	cocaine	Ă	Ingestion	Int misuse	
1047	47 vr	cocaine	ü	Unknown	Int unk	
1048	56 vr	cocaine	ŭ	Unknown	Int abuse	
1049	>19 vr	cocaine	ũ	Unknown	Unknown	
1050	Unk	cocaine	ū	Unknown	Unknown	
1051 p	42 vr	cocaine	Ã/C	Ing/Unk	Int abuse	
		acetaminophen/hydrocodone				91 μg/mL¥
1052 p	21 yr	cocaine	A	Parenteral	Int abuse	
1052 p	20 1/2	amprietamine		Linknown	Int obugo	
1055 p	30 yi	amphetamine	0	UTKHOWH	int abuse	
		opioid ^A				
1054 p	21 yr	cocaine	A	Unknown	Int suicide	
	-	aspirin/oxycodone				
1055	05	acetaminopnen/oxycodone			1.1.1.1.1.1.1.1	
1055	25 yr	cocaine	A	Unknown	int suicide	
		benzodiazepine				
1056 5	07.1	Darbiturate		lng/lnh	Int abuse	
1056 p	37 yr	cocaine	U	ing/inn	Int abuse	
		benzodiazepine				
1057:	05.10	priencycliulite	^	lng/Llnk	Int minung	2.95
10571	25 yr	cocaine	A	ing/Unk	int misuse	3.85 µg/mLs
1059	07.1	ethanol		lng/lnh	Int abuse	40 mg/ais
1056	37 yr	ethanol	0	ing/inn	int abuse	
1059	40 yr	cocaine	Δ	lna/Link	Int abuse	
1000	40 yi	ethanol	7	ing/onix	int abuse	33 ma/dl
1060	30 vr	cocaine	LI I	Ina/Link	Int abuse	00 mg/d2
1000	00 yi	ethanol	0	ing/orin	int abase	80 mg/dl
		methadone ^A				60 mg/dE
1061	30's vr	cocaine	Δ	Unknown		
1001	00 3 yr	ethanol	-	Onknown		60 mg/dl
						00 mg/dL
1062 n	29 vr	cocaine	Δ	lna/Link	Int suicide	
1002 p	20 yi	heroin	-	ing/onix		
		benzodiazepine ^A				

TABLE 21.	Summar	of Fatal	Exposures	Reported to	TESS in 2002	(Continued)
-----------	--------	----------	-----------	-------------	--------------	-------------

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
1063 in	39 vr	cocaine	A/C	lna/lnh	Int abuse	0.024 µg/ml 8	
1005 lp	59 yi	heroin methodone ^A	~0	ing/init	in abuse	benzoylecgonine 1.2 μg/mL§ morphine 40 ng/mL§	
1064	42 yr	cocaine	А	Ing/Inh	Unknown	0.007 µg/meg	
1065 ip	43 yr	cocaine	U	Unknown	Int unk	0.1 μg/mL§ 1.3 μg/mL§	
1066 p	17 yr	cocaine methadone borzadiazapiso	A/C	Ing/Inh/Unk	Int abuse	0.06 μg/mL	
1067 p	20 yr	cocaine	A/C	Ing/Unk	Int abuse		
1068 p	22 yr	cocaine morphine propovyndene	A/C	Unknown	Int abuse		
1069	33 yr	cocaine	А	Inh/Unk	Int abuse		
1070	34 yr	cocaine	А	Unknown	Int abuse		
1071	>19 yr	cocaine	U	Unknown	Int abuse		
1072	43 yr	prencychanie cocaine propoxyphene marijuana	А	Ing/Inh/Unk	Int abuse		
1073 p	26 yr	cocaine (crack)	A	Ingestion	Int unk		
1074	32 yr 38 yr	cocaine (crack)	A	Innalation	Int abuse		
1076	46 yr	ephedrine	Â	Ingestion	Int suicide		
1077 ip	45 yr	ephedrine pseudoephedrine	С	Ingestion	Adv rxn		
1078 p	20 yr	gamma hydroxybutyrate cocaine ethanol ^A	A	Ing/Unk	Int suicide		
1079 p	28 yr	gamma hydroxybutyrate diazepam marijuana	A	Ing/Inh	Int suicide		
1080 p	18 yr	heroin	U	Unknown	Int abuse		
1081 ip	24 yr	heroin	A	Parenteral	Int abuse		
1082 p	25 yr	heroin	A	Parenteral	Int abuse		
1083 p	26 yr	heroin	U	Parenteral	Int abuse		
1084 ip	27 yr 28 yr	heroin	A	Unknown	Int abuse		
1086 ip	32 yr	heroin	A	Unknown	Int abuse		
1087 p	33 yr	heroin	A	Parenteral	Int unk		
1088 ip	34 yr	heroin	A	Parenteral	Int abuse		
1089 1090 in	39 yr	heroin	A	Inn/Unk Parenteral	Int abuse	morphine 190 ng/ml &	
1090 10	45 vr	heroin	ĉ	Unknown	Int abuse	morphine 190 hg/meg	
1092 p	49 yr	heroin	A	Parenteral	Int abuse		
1093	55 yr	heroin	С	Parenteral	Int abuse		
1094	>19 yr	heroin	U	Parenteral	Int abuse		
1095 1096 in	35 yr	acetaminophen/hydrocodone heroin	A/C	Ing/Paren	Int abuse		
1097	26 yr	alprazolam	11	Ing/Inh	Int abuse		
1009 5	20 5	amphetamine marijuana		Derenteral		morphine 790 ng/ml f	
1090 p	22 yr	cocaine	A/C	Paremerai		0.032 μg/mL§ benzoylecgonine 1.76 μg/mL§	
1099 p	26 yr	heroin cocaine	U	Unknown	Int abuse		
1100 ip	28 yr	cocaine	A/C	Inh/Paren	Int abuse	morphine 250 ng/mL§ benzoylecgonine 0.06 µg/mL§	
1101 p	58 yr	heroin cocaine	U	Inh/Paren	Int abuse		
1102 p	27 yr	heroin cocaine acetaminophen/hydrocodone	A/C	Ing/Inh/Paren	Int abuse	morphine 2,320 ng/mL	
1103 p	38 yr	heroin cocaine benzodiazepine	A	Parenteral	Int suicide		
1104 p	25 yr	heroin cocaine doxepin ^A	A	Ing/Inh	Int suicide		
1105 p	26 yr	heroin cyclobenzaprine acetaminophen	A/C	Ing/Paren	Int abuse		
1106 p	18 yr	heroin diphenhydramine	U	Unknown	Int abuse		
1107 ip	29 yr	heroin ethanol	А	Unknown	Int abuse	morphine 360 ng/mL§ 43 ma/dL§	
1108 p	33 yr	heroin ethanol	A	Ing/Unk	Int abuse	242 mg/dL	

1109 ip       33 yr       heroin cocaire cocaire       A/C       Ing/inh       Int abuse       morphine 77 gm/cl. 307 mg/cl. 100 ng/ml. 100 ng/ml	Interval after Exposure
1110 p       30 yr       heanth       A       Asp/hg/Paren       Int suicide       morphine 150 ng/mList inot functionation in the int abuse         1111 ip       20 yr       heroin       A/C       Ing/Inh       Int abuse       int abuse       int abuse       9 mg/al.         1112 ip       24 yr       heroin       A/C       Ing/Inh       Int abuse       int abuse       int abuse       int abuse       9 mg/al.         1113       23 yr       heroin       A       Unknown       Int abuse       morphine 100 ng/mList       int abuse	g/mL§ ig/dL§
effanol*       A/C       Ing/Inh       Int abuse	g/mL§ g/mL§ g/mL§
1112 ip       24 yr       Heroin       A       Unknown       Int abuse       Monthage of the state of	.g/dL g/mL§ g/mL §
1113       23 yr       heroin       A       Ing/Unk       Int suicide         1114 p       21 yr       heroin       U       Unknown       Int suicide         1114 p       21 yr       heroin       A       Ing/Inh       Int abuse         1115 ip       22 yr       heroin       A       Ing/Inh       Int abuse       morphine 100 ng/mL5         1116 ip       42 yr       heroin       A       Ing/Paren       Int abuse       morphine 60 ng/mL5         1117 ip       15 yr       heroin       A/C       Ing/Paren       Int abuse       morphine 60 ng/mL5         1117 ip       15 yr       heroin       A/C       Ing/Paren       Int abuse       135 mg/dL5         1118 p       60 yr       heroin       A/C       Ing/Paren       Int abuse       135 mg/dL5         1119 p       27 yr       heroin       A/C       Ing/Paren       Int abuse       130 mg/dL5         1120 ip       50 yr       maraphanine       A       Ing/Inh       Int abuse       16 µg/mL5         1121       20's yr       methamphetamine       A       Ing/aren       Int abuse       16 µg/mL5         1122       27 yr       methamphetamine       A       Ing/aren	g/mL§ g/mL§
1114 p       21 yr       heroin methylenedioxymethamphetamine cocaine ⁶ U       Unknown       Int abuse         1115 ip       22 yr       renthylenedioxymethamphetamine cocaine ⁶ A       Ing/Inh       Int abuse       morphine 100 ng/mL 0.11 µg/mL 0.011 µg/mL 0.011 µg/mL 0.011 µg/mL 0.010 µg/	J/IIIE§
1115 ip       22 yr       hennin       hennin       A       Ing/Inh       Int abuse       morphine 100 ng/mLS         1116 ip       42 yr       heroin       A       Ing/Paren       Int abuse       0.11 µg/mLS         1116 ip       42 yr       heroin       A       Ing/Paren       Int abuse       morphine 66 ng/mLS         1117 ip       15 yr       heroin       A/C       Ing/Paren       Int abuse       2.3 µg/mLS         1118 p       60 yr       heroin       A/C       Ing/Paren       Int abuse       2.3 µg/mLS         1118 p       60 yr       heroin       A/C       Ing/Paren       Int abuse       2.3 µg/mLS         1119 p       27 yr       heroin       A       Ing/Paren       Int abuse       430 mg/dLS         1120 ip       50 yr       methamphetamine       A       Ingestion       Int misuse       6.4 µg/mLS         1121 2       20's yr       methamphetamine       A       Ingestion       Int misuse       16 µg/mLS         1124 29 yr       methamphetamine       A       Ingestion       Int misuse       16 µg/mLS         1125 31 yr       methamphetamine       A       Ingestion       Int misuse       0.64 µg/mLS         1128 20 yr </td <td></td>	
$\begin{array}{cccc} cocaine^{\Lambda} & cocaine^{\Lambda} & A lng/Paren Int abuse \\ morphine 66 ng/mL2 \\ e thanol \\ e thanol \\ 1117 ip 15 yr heroin A C Ing/Inh Int abuse \\ 155 mg/dL \\ 2.3 \mug/mL \\ 1118 p 60 yr heroin A C Ing/Paren Int abuse \\ tranadol \\ 1118 p 60 yr heroin A C Ing/Paren Int abuse \\ tranadon \\ 1119 p 27 yr heroin A C Ing/Paren Int abuse \\ tranadon \\ 1120 ip 50 yr marijuana A Ing/Paren Int abuse \\ 1120 ip 50 yr marijuana A Ing/Paren Int abuse \\ 1120 ip 50 yr marijuana A Ing/Paren Int abuse \\ 1121 2 20's yr methamphetamine A Ingeston Int misuse \\ 1122 27 yr methamphetamine A Ingeston Int misuse \\ 1124 29 yr methamphetamine A Ingeston Int misuse \\ 1124 29 yr methamphetamine A Ingeston Int misuse \\ 1128 31 yr methamphetamine A Ingl/Ink Int abuse \\ 1128 20 yr methamphetamine A Ingl/Ink Int abuse \\ 1129 1124 29 yr methamphetamine A Ingl/Ink Int abuse \\ 1128 20 yr methamphetamine A Ingl/Ink Int abuse \\ 1129 36 yr methamphetamine A Ingl/Ink Int abuse \\ 1128 20 yr methamphetamine A Ingl/Ink Int abuse \\ 1129 31 yr methamphetamine A Ingl/Ink Int abuse \\ 1129 30 fyr methamphetamine A Ingl/Ink Int abuse \\ 1129 20 yr methamphetamine A Ingl/Ink Int abuse \\ 1129 1129 1129 1129 1120 yr methamphetamine A Ingl/Ink Int abuse \\ 1129 1129 1129 1129 1120 yr methamphetamine A Ingl/Ink Int abuse \\ 1130 ip 27 yr methamphetamine A Ingl/Ink Int abuse \\ 1130 ip 27 yr methamphetamine A Ingl/Ink Int abuse \\ 1131 34 yr methamphetamine A Ingl/Ink Int abuse \\ 1131 34 yr methamphetamine A Ingl/Ink Int abuse \\ 1131 34 yr methamphetamine A Ingl/Ink Int abuse \\ 1132 36 yr methamphetamine A Ingl/Ink Int abuse \\ 1133 ip 39 yr methamphetamine A Ingl/Ink Int abuse \\ 1133 ip 39 yr methamphetamine A Ingl/Ink Int abuse \\ 1133 ip 39 yr methamphetamine A Ingl/Ink Int abuse \\ 1134 12 yr methyleneloxymethamphetamine A Ingl/Ink Int abuse \\ 1135 ap 16 yr methyleneloxymethamphetamine A Ingl/Ink Int abuse \\ 1135 ap 10 yr methyleneloxymethamphetamine A Ingl/Ink Int abuse \\ 1136 ap 10 yr methyleneloxymethamphetamine A Ingl/Ink Int abuse \\ 1137 p 16 yr methyleneloxymethamp$	g/mL§ g/mL§
1117 ip       15 yr       heroin       A/C       Ing/Inh       Int abuse       135 mg/d.l.g.         1118 p       60 yr       heroin       A/C       Ing/Paren       Int abuse       111111111111111111111111111111111111	g/mL§ g/mL§
marijuana     haroi     A/C     Ing/Paren     Int abuse       1118 p     60 yr     heroin     A/C     Ing/Paren     Int abuse       1119 p     27 yr     heroin     A     Ing/Paren     Int abuse       1120 ip     50 yr     marijuana     A     Ing/Inh     Int abuse       1121 20's yr     methamphetamine     A     Ing/Inh     Int abuse       1122 27 yr     methamphetamine     A     Ingestion     Int misuse       1123 a     27 yr     methamphetamine     A     Ingestion     Int misuse       1124 29 yr     methamphetamine     A     Ingestion     Int misuse     16 µg/mL5       1125 31 yr     methamphetamine     A     Ingestion     Int misuse     0.64 µg/mL5       1127 43 yr     methamphetamine     A     Ingestion     Int misuse     0.64 µg/mL5       1129 20 yr     methamphetamine     A     Ingestion     Int misuse     0.64 µg/mL5       1130 ip     27 yr     methamphetamine     A     Ingestion     Int suicide       1131 43 4yr     methamphetamine     A     Ingestion     Int suicide       1131 34 yr     methamphetamine     A     Ingestion     Int abuse       1132 36 yr     methamphetamine     A     I	.g/dL§ g/mL &
1118 p       60 yr       heroin ² tranadol temazepam ^A A/C       Ing/Paren       Int abuse         1119 p       27 yr       heroin       A       Ing/Paren       Int abuse         1120 ip       50 yr       merjuana       A       Ing/Inh       Int abuse         1121 20's yr       methampletamine       A       Unknown       Int abuse       430 mg/dLξ         1121 20's yr       methampletamine       A       Unknown       Int abuse       16 µg/mLξ         1123 a       27 yr       methampletamine       A       Ingestion       Int misuse       16 µg/mLξ         1124 29 yr       methampletamine       A       Ingestion       Int misuse       0.64 µg/mLξ         1125 31 yr       methampletamine       A       Ingestion       Int misuse       0.64 µg/mLξ         1125 31 yr       methamphetamine       A       Ingestion       Int misuse       0.64 µg/mLξ         1127 43 yr       methamphetamine       A       Ingestion       Int abuse       0.64 µg/mLξ         1128 20 yr       methamphetamine       V       U       Unknown       0.27 µg/mLξ         1130 ip       27 yr       methamphetamine       A       Inhalation       Int abuse         1131	g/mL§
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
1121       20's yr       methamphetamine       A       Unknown       Int abuse         1122       27 yr       methamphetamine       A       Ingestion       Int misuse       16 µg/mL{s}         1124       29 yr       methamphetamine       A       Ingestion       Int misuse       16 µg/mL{s}         1125       31 yr       methamphetamine       A       Ingestion       Int misuse       0.64 µg/mL{s}         1126 p       36 yr       methamphetamine       A       Ing/Unk       Int abuse       0.64 µg/mL{s}         1127       43 yr       methamphetamine       A       Ingestion       Int misuse       0.64 µg/mL{s}         1128       >19 yr       methamphetamine       A       Induston       Int suicide       0.64 µg/mL{s}         1129       20 yr       methamphetamine       U       Ingestion       Int suicide       0.027 µg/mL{s}         1130 ip       27 yr       methamphetamine       U       Unknown       Unknown       0.27 µg/mL{s}         1131       34 yr       methamphetamine       A       Inhalation       Int abuse         1132       36 yr       methamphetamine       A       Ingestion       Int abuse         1133 ip       39 yr	lg/dL§
1123 a       27 yr       methamphetamine       A       Ingestion       Int misuse       16 μg/mL 6.3 μg/mL 6.3 μg/mL 6.3 μg/mL 4.4 mg/mL 6.3 μg/mL 6.3	0
1125       31 yr       methamphetamine       U       Ing/Paren       Int misuse         1126 p       36 yr       methamphetamine       A       Ing/Unk       Int abuse       0.64 µg/mL§         1127       43 yr       methamphetamine       A       Infalation       Int abuse       0.64 µg/mL§         1128       >19 yr       methamphetamine       U       Ingestion       Int misuse         1129       20 yr       methamphetamine       U       Ingestion       Int suicide         1130 ip       27 yr       methamphetamine       U       Unknown       Unknown       0.27 µg/mL§         1131       34 yr       methamphetamine       A       Inhalation       Int abuse       38.1 µg/mL§         1131       34 yr       methamphetamine       A       Inhalation       Int abuse       38.1 µg/mL§         1132       36 yr       methamphetamine       A       Inhalation       Int abuse       38.1 µg/mL§         1133 ip       39 yr       methamphetamine       A       Ingestion       Int abuse       132 µg/mL§         1134 p       16 yr       methamphetamine       A       Ingestion       Int abuse       132 µg/mL§         1135       ap       16 yr	g/mL§ g/mL§ g/mL §
1126 p       36 yr       methamphetamine       A       Ind/Unk       Int abuse       0.64 μg/mLξ         1127       43 yr       methamphetamine       A       Inhalation       Int abuse       0.64 μg/mLξ         1128       >19 yr       methamphetamine       A/C       Ingestion       Int misuse         1129       20 yr       methamphetamine       U       Ingestion       Int suicide         1130 ip       27 yr       methamphetamine       U       Unknown       Unknown       0.27 μg/mLξ         1131       34 yr       methamphetamine       A       Inhalation       Int abuse       38.1 μg/mLξ         1132       36 yr       methamphetamine       A       Inhalation       Int abuse       38.1 μg/mLξ         1131       34 yr       methamphetamine       A       Inhalation       Int abuse       38.1 μg/mLξ         1132       36 yr       methamphetamine       A       Ingestion       Int abuse       38.1 μg/mLξ         1133 ip       39 yr       methamphetamine       A       Ingestion       Int abuse       1.32 μg/mLξ         1134 p       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse       1.32 μg/mLξ         1135	g/mcg
1127       43 yr       methamphetamine       A       inflatution       inflatuton       inflatuton         1128       >19 yr       methamphetamine       A/C       Ingestion       Int misuse         1129       20 yr       methamphetamine       U       Ingestion       Int misuse         1130 ip       27 yr       methamphetamine       U       Unknown       Unknown       0.27 μg/mLξ         1131       34 yr       methamphetamine       A       Inhalation       Int abuse       600 ng/mLξ         1131       34 yr       methamphetamine       A       Inhalation       Int abuse       88.1 μg/mLξ         1132       36 yr       methamphetamine       A/C       Ing/Unk       Int abuse       88.1 μg/mLξ         1132       36 yr       methamphetamine       A/C       Ing/Unk       Int abuse       81.1 μg/mLξ         1133 ip       39 yr       methamphetamine       A       Ingestion       Int abuse       1.32 μg/mLξ         1135 ap       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse       1.32 μg/mLξ         1136       18 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse       0.74 μg/mLξ	g/mL§
1120       20 yr       Internampletamine       A/C       Ingestion       Intifususe         1129       20 yr       methamphetamine       U       Ingestion       Intifususe         1130 ip       27 yr       methamphetamine       U       Unknown       Unknown       0.27 µg/mLξ         1130 ip       27 yr       methamphetamine       U       Unknown       Unknown       0.27 µg/mLξ         1131       34 yr       methamphetamine       A       Inhalation       Int abuse         1132       36 yr       methamphetamine       A/C       Ing/Unk       Int abuse         1132       36 yr       methamphetamine       A/C       Ing/Unk       Int abuse         1133 ip       39 yr       methamphetamine       A       Ingestion       Int abuse         1134 p       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1135 ap       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1135 ap       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1136       18 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse	
1130 ip       27 yr       methamphetamine hydrocodone acetaminophen ^A U       Unknown       Unknown       0.27 μg/mL{ 600 ng/mL{ 38.1 μg/mL{ 38.1 μg/mL}{ 38.1 μg/mL{ 38.1 μg/mL}{ 38.1 μg/mL{ 38.1 μg/mL}{ 38.1 μg/mL{ 38.1 μg/mL}{ 38.1 μg/mL{ 38.1 μg/mL}{ 38.1 μg/mL}{ 38.1 μg/mL{ 38.1 μg/mL}{ 38.1 μg/mL}{	
1131       34 yr       methamphetamine       A       Inhalation       Int abuse         1132       36 yr       methamphetamine       A       Inhalation       Int abuse         1132       36 yr       methamphetamine       A/C       Ing/Unk       Int abuse         1133       ip       39 yr       methamphetamine       A       Ing/Unk       Int abuse         1134 p       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1135 ap       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1135 ap       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1137 p       18 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1138       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1139 p       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1140 p       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1141 p       29 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse	g/mL§ g/mL§ g/mL &
1132       36 yr       methamphetamine methadone       A/C       Ing/Unk       Int abuse         1133 ip       39 yr       methamphetamine oxycodone       A       Ing/Unk       Int unk       2.21 μg/mLξ         1134 p       16 yr       methylenedioxymethamphetamine oxycodone       A       Ingestion       Int abuse         1135 ap       16 yr       methylenedioxymethamphetamine oxycodone       A       Ingestion       Int abuse         1135 ap       18 yr       methylenedioxymethamphetamine oxycotone       A       Ingestion       Int abuse         1136       18 yr       methylenedioxymethamphetamine oxymethamphetamine oxycoton       A       Ingestion       Int abuse         1138       20 yr       methylenedioxymethamphetamine oxymethamphetamine oxymethamphetamine oxycoton       A       Ingestion       Int abuse         1139 p       20 yr       methylenedioxymethamphetamine oxymethamphetamine oxymethamphetamin	9,3
1133 ip       39 yr       methamphetamine oxycodone       A       Ing/Unk       Int unk       2.21 μg/mLξ         1134 p       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse       530 ng/mLξ         1135 ap       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse       1.32 μg/mLξ         1136       18 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse       1.32 μg/mLξ         1137 p       18 yr       methylenedioxymethamphetamine       A       Unknown       Int abuse       1.32 μg/mLξ         1138 20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse       1.32 μg/mLξ         1139 p       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1140 p       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1141 p       29 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1142 p       32 yr       methylenedioxymethamphetamine       U       Ing/Inh       Int abuse         uknown drug       uknown drug       uknown drug       Int abuse       Uknown drug <td></td>	
1134 p       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1135 ap       16 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1136 ap       18 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1136 ap       18 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1137 p       18 yr       methylenedioxymethamphetamine       A       Unknown       Int abuse         1138 20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1139 p       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1140 p       20 yr       methylenedioxymethamphetamine       U       Ingestion       Int abuse         1141 p       29 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1142 p       32 yr       methylenedioxymethamphetamine       U       Ingestion       Int abuse         1142 p       32 yr       methylenedioxymethamphetamine       U       Ing/Inh       Int abuse	g/mL§ g/mL§
1135 ap       16 yr       methylenedioxymethamphetamine       A       ingestion       int abuse       1.32 μg/mLs         1136       18 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1137 p       18 yr       methylenedioxymethamphetamine       A       Unknown       Int abuse         1138       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1139 p       20 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1140 p       20 yr       methylenedioxymethamphetamine       U       Ingestion       Int abuse         1140 p       20 yr       methylenedioxymethamphetamine       U       Ingestion       Int abuse         1141 p       29 yr       methylenedioxymethamphetamine       A       Ingestion       Int abuse         1142 p       32 yr       methylenedioxymethamphetamine       U       Ing/Inh       Int abuse         1142 p       32 yr       methylenedioxymethamphetamine       U       Ing/Inh       Int abuse	
1137 p     18 yr     methylenedioxymethamphetamine     A     ingestion     intrabuse       1138 p     20 yr     methylenedioxymethamphetamine     A     Unknown     Intrabuse       1138 p     20 yr     methylenedioxymethamphetamine     A     Ingestion     Intrabuse       1139 p     20 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1140 p     20 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1141 p     29 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1141 p     32 yr     methylenedioxymethamphetamine     U     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     U     Ing/Inh     Int abuse	g/mL§
1138     20 yr     methylenedioxymethamphetamine     A     Infraction     Infraction     0.74 μg/mL       1138     20 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse     0.74 μg/mL       1139 p     20 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse     0.74 μg/mL       1140 p     20 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1141 p     29 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     U     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     U     Ingestion     Int abuse	
1139 p     20 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1140 p     20 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1141 p     29 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     A     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     U     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     U     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     U     Ing/Inh     Int abuse	a/ml
1140 p 20 yr methylenedioxymethamphetamine U Ingestion Int abuse 1141 p 29 yr methylenedioxymethamphetamine A Ingestion Int abuse 1142 p 32 yr methylenedioxymethamphetamine U Ing/Inh Int abuse unknown drug	g/me
1141 p     29 ýr     methýlenedioxýmethamphetamine     A     Ingestion     Int abuse       1142 p     32 yr     methylenedioxymethamphetamine     U     Ing/Inh     Int abuse       cocaine     unknown drug     U     Ing/Inh     Int abuse	
1142 p 32 yr methylenedioxýmethamphetamine U Ing/Inh Int abuse cocaine unknown drug	
1143 ip21 yrmethylenedioxymethamphetamineUIng/UnkInt unk0.22 μg/mLξdiazepam510 ng/mLξ </td <td>g/mL§ g/mL§ g/mL§</td>	g/mL§ g/mL§ g/mL§
oxycodone 470 ng/mL§ 1144 18 yr methylenedioxymethamphetamine A Ingestion Int abuse	₃/mL§
145 i 20 yr phencyclidine U Unknown Unknown See also cases 17, 64, 452, 553, 720, 1052, 1053, 1077, 1097 (amphetamine); 215, 292, 294, 683 (caffeine); 13, 16, 17, 53, 106, 138, 281, 294, 444, 449, 4	149, 450, 516, 527,

See also cases 17, 64, 452, 553, 720, 1052, 1053, 1077, 1097 (ampretamine); 215, 292, 294, 663 (camene); 13, 16, 17, 53, 106, 138, 281, 294, 444, 449, 460, 165, 277, 558, 558, 550, 551, 552, 551, 558, 586, 580, 933, 952, 955, 1078, 1098 thru 1104, 1109, 1115, 1142 (cocaine); 555, 896 (ephedrine); 526 (gamma hydroxybutyrate); 415, 527, 559, 586, 709, 794, 964, 1062 (heroin); 57, 155, 224, 379, 510, 528, 529, 578, 776, 1072, 1079, 1097, 1111, 1112, 1117, 1131 (marijuana); 453, 765, 969, 1022 (methamphetamine); 681, 1067, 1114, 1115 (methylenedioxymethamphetamine); 889 (methylphenidate); 907, 1001, 1056, 1071 (phencyclidine).

Topical preparat 1146	ions 51 vr	camphor	A	Ingestion	Int abuse	
See also case 1	146 (meth	methyl salicylate ethanol yl salicylate).		<b>3</b> • • •		97.9 mg/dL 84 mg/dL

Case	Age	Substances	Chronicity	Route	Reason	Blood Concentrations	Interval after Exposure
Unknown d	drug						
1147	17 yr	unknown drug	A	Inhalation	Adv rxn		
1148 p	27 yr	unknown drug	A	Unknown	Int suicide		
1149 p	28 yr	unknown drug	U	Ingestion	Int suicide		
1150 p	29 yr	unknown drug	U	Ingestion	Unknown		
1151 ່	37 yr	unknown drug	А	Ingestion	Int suicide		
1152	43 yr	unknown drug	U	Unknown	Unknown		
1153	59 yr	unknown drug	А	Ingestion	Unknown		
See also c	ases 24, 59, 3	312, 313, 455, 846, 985, 1061, 1	142 (unknown drug).	0			

ABBREVIATIONS: C, chronic exposure; A, acute exposure; A/C, acute on chronic; U, unknown; Ocu, ocular; Ot, otic; Inh, inhalation; Ing, ingestion; Adv rxn, adverse reaction; Env, environmental; Int, intentional; Occ, occupational; Paren, parenteral; Ther error, therapeutic error; Unint gen, unintentional general

p Prehospital (cardiac and/or respiratory) arrest

i Reported to poison center indirectly (by coroner, medical examiner, or from other source) after the fatality occurred. § Concentration obtained postmortem ¥ Acetaminophen concentration

¶ Salicylate concentration ^A Additional substances not listed

# Concentration includes metabolite and parent compound

a Abstract provided in Appendix The term "long-acting" is used throughout for all sustained release, extended release, delayed release, or long-acting formulations.

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

No. of Arbitrary         No. of Arbitrary<			Age				Rea	son		Treated in Health	Outcome				
Abchevingues         view		No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Openacy         11.366         0.241         0.072         0.08         0.2468         1.172         1.02         0.01         0.2468         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.17         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.01         0.02         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	Adhesives/glues														
bit         bi	Cyanoacrylate	11,356	3,955	2,341	4,938	11,072	185	55	30	2,498	1,172	2,342	445	5	0
Tate.movies         1,199         1,199         177         297         1,141         4,50         7         5         173         208         108         13         1           Unissevant         4,381         2,280         688         1,200         4,201         98         28         101         104         3,28         2,887         3,588         7,788         1,878         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718         1,718 <td>Epoxy</td> <td>817</td> <td>304</td> <td>66</td> <td>441</td> <td>786</td> <td>13</td> <td>3</td> <td>13</td> <td>239</td> <td>127</td> <td>162</td> <td>59</td> <td>5</td> <td>0</td>	Epoxy	817	304	66	441	786	13	3	13	239	127	162	59	5	0
bon-box         i.722         i.149         426         149         1622         90         7         2         82         180         100         80         1         0           Caragory trail         19,475         838         5,578         7,30         18,822         90         10         10         14         706         10         1           Caragory trail         19,475         8,383         5,78         7,30         18,82         937         70         94         0         1,518         71,30         1,705         1,00           Ethmonic Other         5,384         4,290         30         255         7         7         7         2         2         7         1,60         1,50         1,50         1,50         1,50         1,50         1,50         1,50         1,50         1,50         1,50         1,50         2         1,50         2         1,50         2         1,50         2         1,50         2         1,50         30         2         1         1,50         2         1,50         30         30         1,50         1,50         30         30         1,50         30         30         30         30         3	Toluene/xylene	1,199	719	177	297	1,141	43	7	5	179	265	208	32	2	1
Ubbinom         4.381         2.280         5.58         1.520         4.201         9.38         2.8         5.48         2.84         2.84         7.84         7.80         7.04         7.81         7.04         7.81         7.04         7.81         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.04         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0	Non-toxic	1,722	1.145	426	143	1.652	59	7	2	62	189	101	8	1	0
Category total         19,475         4,383         9,577         7,339         18,852         9,30         100         104         3,822         2,477         5,538         7,74         16         2           Accode: Ethanci: bowrape         4,223         1,223         6,149         9,495         5,574         278         37         20         490         1,583         2,671         3         11         13         11         13         13         11         13         13         11         13         11         14         2         13         21         22         10         10         15         9         2         2         0         0         10         15         9         2         0         0         0         10         15         9         2         0         0         0         0         10         15         9         2         0         0         0         0         0         10         10         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Unknown	4.381	2.260	568	1.520	4.201	93	28	54	844	734	726	160	3	1
Accords         Ethemaci. Cher         And	Category total	19.475	8.383	3.578	7.339	18.852	393	100	104	3.822	2.487	3.539	704	16	2
Alcohol         Extranct.brwrape         (223)         1.223         6.149         9.198         5.204         8.228         37.3         685         31,410         4.213         18,401         7.38         17.3         11         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         14         15         14         15         14         15         14         15         14         15         14         15         13         173         91         14         15         16         16			-,	-,	.,	,				-,	_,	-,			_
Enthmole Conversion         4.2.23         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24         0.1.24	Alcohols	40.000	1 000	0.4.40	04.005	5 500	05 000	070	005	01 110	1.010	10 101	0 700	4 700	400
Lamband         5,844         4,120         466         6,27         20         74         20         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         740         7	Ethanol: beverage	42,233	1,223	6,149	34,395	5,508	35,228	3/3	665	31,410	4,213	13,401	8,793	1,706	120
Ingregraphic         218         118         22         103         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.76         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77         7.77	Etnanoi: otner	5,594	4,120	469	987	5,274	256	37	20	490	1,558	/13	91	13	1
bedpergradic         6,448         5,447         7,64         2,200         1,220         1,220         1,224         89         39         39         13           Pubbing alcohols         1.199         2.84         144         611         682         123         14         7         524         2.24         89         321         13           Pubbing alcohols         3070         263         21         1.86         335         33         1         1         7         1.32         64         10         2         0         0           Issing value         310         261         86         335         33         1         1         7         132         64         10         2         0         0         0         133         14         6         0         0         173         99         15         58         150         20         2         133         11         7         14         132         144         144         144         144         144         144         144         144         144         144         144         144         144         144         144         144         144         144         144	Higner alconol	248	118	22	103	235	1	4	2	79	00	61	21	2	0
Indemand         Lubing         Lubing <thlubing< th=""> <thlubing< th=""> <thlubing< <="" td=""><td>Isopropanol</td><td>8,998</td><td>5,497</td><td>764</td><td>2,694</td><td>7,769</td><td>1,113</td><td>58</td><td>23</td><td>1,833</td><td>2,607</td><td>1,620</td><td>384</td><td>59</td><td>3</td></thlubing<></thlubing<></thlubing<>	Isopropanol	8,998	5,497	764	2,694	7,769	1,113	58	23	1,833	2,607	1,620	384	59	3
PLADEng Sachias         PLADEng Sa	Methanol	1,049	284	144	611	882	123	14	(	524	243	244	89	32	13
Lithanol with metryl salcylate         4         2         9         2         0         0         1         1         1         1         1         1         1         1         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th="">         1         1         <th1< td=""><td>Rubbing alconois</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td><td></td><td></td><td></td><td></td><td></td></th1<></th1<>	Rubbing alconois									10					
Lethanol without methy         asso 2/4         2/5         3/5         2/8         2         1         50         138         5/         7/         0         0           issopriate         370         263         21         86         335         33         1         1         7/4         132         64         10         2         0           issopriate         methy         370         265         8205         803         62         1         44         433         23         7         0         0           Othor         304         208         28         86         21         1         44         433         23         7         0         0           Othor         304         208         281         2932         8         12         389         102         17         104         0         17         130         36,216         18,7         10         36,216         18,7         10         10         16         31         130         32         2         0         30         12,15         2,42         13         10         0         0         0         0         0         0         0 <t< td=""><td>Ethanol with methyl salicylate</td><td>47</td><td>29</td><td>1</td><td>1/</td><td>41</td><td>6</td><td>0</td><td>0</td><td>10</td><td>15</td><td>9</td><td>2</td><td>0</td><td>0</td></t<>	Ethanol with methyl salicylate	47	29	1	1/	41	6	0	0	10	15	9	2	0	0
biopropand with methyl sale/kath         370         263         21         86         335         33         1         1         74         132         64         10         2         0           bop opgand with methyl uknown rubing alcohol         173         99         15         88         100         2         1         344         3         23         7         0         0           Other         304         208         29         66         291         7         2         233         101         41         6         0         0           Other         706         1123         110         465         228         28         8         12         380         12         150         9,746         1,874         130           Artis pari, norwater color         3450         2,484         175         33         1593         23         2         18         128         504         242         5         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Ethanol without methyl salicylate	389	276	25	86	358	28	2	1	50	138	57	1	0	0
Basic Jack         Bit M         Cold         Zi         Go         S3         S3         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	Isopropanol with methyl	270	262	01	96	225	22	- 1	-	74	100	64	10	2	0
bit definition	Salicylate	370	203	21	00	335	33	I	1	74	132	04	10	2	0
Unknown         Home	salicylate	9 104	6 0 1 4	708	2 356	8 205	803	62	12	1 360	2 313	1 476	229	26	1
Other         No.basis         Solution         706         123         110         485         282         392         6         12         389         1107         1707         1347         19           Catagory total         69.215         18.254         8.457         41,924         29.30         36.016         563         746         36.86         111.11         17,766         9,744         139           Artist paint, non-water color         3.450         2.464         470         500         3.300         46         53         210         70         4         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Linknown rubbing alcohol</td> <td>173</td> <td>99</td> <td>15</td> <td>58</td> <td>150</td> <td>20</td> <td>2</td> <td>1</td> <td>.,000</td> <td>,010</td> <td>23</td> <td>7</td> <td>0</td> <td>0</td>	Linknown rubbing alcohol	173	99	15	58	150	20	2	1	.,000	,010	23	7	0	0
Unknown         706         123         110         465         282         392         6         12         386         102         157         107         34         7           Category (trid)         69.215         18.254         41,924         29330         38.016         563         746         382.266         111,511         77.66         9,744         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874         1,874 <t< td=""><td>Other</td><td>304</td><td>208</td><td>29</td><td>66</td><td>291</td><td>7</td><td>2</td><td>2</td><td>33</td><td>91</td><td>41</td><td>6</td><td>0</td><td>0</td></t<>	Other	304	208	29	66	291	7	2	2	33	91	41	6	0	0
Constraint         100         100         100         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101         101	Unknown	706	123	110	465	282	302	2	12	380	102	157	107	34	1
Concept Nation         ConceptNation         Concept Nation         Concept	Category total	69 215	18 254	8 457	41 924	20 230	38.016	563	746	36 286	11 511	17 866	9746	1 874	139
Artist paint, non-watter color         3,450         2,444         470         500         3,380         46         2         18         128         504         204         26         2         0           Chalk         1,648         1,648         146         115         33         1,593         23         2         0         30         216         42         5         0         0           Crayon         2,715         2,425         211         68         2,682         28         2         3         43         263         63         3         0         0           Office supplies: miscelianeous         354         144         35         172         242         7         3         1         31         70         49         50         0         0           Pencink         2,1384         12,600         8,162         777         2,1285         461         50         42         2,02         600         2,08         1<00		05,215	10,204	0,407	41,524	23,000	00,010	000	740	00,200	11,011	17,000	5,740	1,074	100
Arist paint, non-water color       3,450       2,464       470       500       3,380       46       2       18       128       504       204       26       2       0       0         Chaik       1,618       1,465       115       33       1,593       22       0       0       0       6       53       210       70       4       0       0         Clay       1,712       2,425       211       68       2,682       28       2       3       1       31       20       4       0       0         Office supplies: miscellaneous       354       144       35       172       342       7       3       1       31       70       49       5       0       0         Pencil       3,139       1,565       1,292       261       30,23       76       32       0       10       0       160       608       165       0       1       0       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10	Arts/crafts/office supplies														
Chalk         1,1618         1,1618         1,1618         1,1618         1,1618         1,1618         1,1618         1,1618         1,1618         1,1618         1,1618         1,1618         1,280         1,280         1,280         1,280         1,280         1,280         1,280         2,28         2         3         43         263         63         3         0         0           Crayon         2,715         2,425         211         68         2,682         28         2         3         43         263         63         3         0         0           Office supplies: miscelaneous         354         144         35         172         342         7         3         1         31         20         60         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	Artist paint, non-water color	3,450	2,464	470	500	3,380	46	2	18	128	504	204	26	2	0
Clay         1,909         1,824         188         90         1,886         17         0         6         53         210         70         4         0         0           Crayon         2.715         2.425         2.211         68         2.682         2.83         43         203         63         3         0         0           Glazo         172         76         46         49         171         1         0         161         31         70         49         5         0         0           Pencil         3,139         1,556         1,282         281         3,023         76         32         0         110         229         258         13         0         0           Pencil         3,385         1,990         116         73         1,344         16         0         4         23         129         31         1<0         0         0           Other         8,365         3,00         80         355         408         19         0         2         20         85         133         0         0         0           Other         8,365         3,402         16 <t< td=""><td>Chalk</td><td>1,618</td><td>1,465</td><td>115</td><td>33</td><td>1,593</td><td>23</td><td>2</td><td>0</td><td>30</td><td>216</td><td>42</td><td>5</td><td>0</td><td>0</td></t<>	Chalk	1,618	1,465	115	33	1,593	23	2	0	30	216	42	5	0	0
Crayon         2.715         2.425         211         68         2.682         2.8         2.3         4.3         2.63         6.3         3         0         0           Cliaze         172         76         46         49         171         1         0         06         11         20         3         0         0           Office supplies: miscellaneous         354         1444         35         172         242         7         3         1         31         70         49         5         0         0           Penclik         21,834         12,800         8162         757         21,265         461         50         43         424         2,702         60         27         3         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	Clay	1,909	1,624	188	90	1,886	17	0	6	53	210	70	4	0	0
Glaze       172       76       46       49       171       1       0       0       16       31       20       3       0       0         Office supplies: miscellaneous       354       144       35       172       342       7       3       1       31       70       49       5       0       0         Pencil       3,139       1,566       1,292       261       3,023       76       32       0       110       229       258       13       0       0         Pencil       2,183       1,280       8,162       757       21,265       461       50       43       424       2,702       600       27       3       0         Water color       1,385       1,90       116       73       1,364       116       96       1,28       1,025       336       45       1       0         Unknown       430       303       89       35       408       19       0       2       20       85       953       341       132       2       7         Automotive/aicraft/boat products       5102       610       756       3,675       4,474       526       53       14	Crayon	2,715	2,425	211	68	2,682	28	2	3	43	263	63	3	0	0
Office supplies: miscellaneous         354         144         35         172         342         7         3         1         31         70         49         5         0         0           Pencil         313         1,556         1,292         261         3,023         76         32         0         110         229         258         13         0         0           Penvlnk         2,183         1,290         8,162         757         21,265         461         50         43         424         2,702         600         27         3         0           Water core or         1,385         1,190         116         73         1,344         16         0         44         23         29         3         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1,51         3         1,52         3         14         17         0         2         20         85         3,61         14         0         0         0         14         1,50         1,52         3         11         15         14         <	Glaze	172	76	46	49	171	1	0	0	16	31	20	3	0	0
Pencli         3,139         1,556         1,252         261         3,023         76         22         0         110         229         258         13         0         0           Pen/Ink         21,844         12,800         8,162         77         21,98         117         9         0         160         608         185         20         1         0           Water color         1,385         1,190         116         73         1,384         157         35         19         258         1,055         336         45         1         0           Other         8,363         6,201         1,399         12,90         31,81         12,99         31,81         12,99         31,81         12,90         6,10         1,89         1,6         0           Category total         47,695         31,81         12,89         2,865         4,647         968         13         0         0         0         33         0         0         0         0         33         30         26         5         11         0         5         14         1,750         965         5         11         12         20         0         0	Office supplies: miscellaneous	354	144	35	172	342	7	3	1	31	70	49	5	0	0
Pen/Ink         21,834         12,800         8,162         757         21,265         461         50         43         424         2,702         600         27         3         0           Typewriter correction fluid         2,326         1,655         484         207         2,198         1117         9         0         160         608         185         20         1         0         0           Other         8,383         6,201         1,390         720         8,145         157         35         19         2268         1,055         336         45         1         0         0         0           Category total         47,695         31,873         12,598         2,965         46,457         968         135         96         1,296         6,102         1,879         152         7         0           Automotive/aircaft/boat products         5         31,873         12,598         3,865         1,441         73         7         2         582         327         517         84         1         20         0         33         30         26         5         1         0           Automotive/aiterfuicd         5,102         611 <td>Pencil</td> <td>3,139</td> <td>1,556</td> <td>1,292</td> <td>261</td> <td>3,023</td> <td>76</td> <td>32</td> <td>0</td> <td>110</td> <td>229</td> <td>258</td> <td>13</td> <td>0</td> <td>0</td>	Pencil	3,139	1,556	1,292	261	3,023	76	32	0	110	229	258	13	0	0
Typewriter correction fluid         2.326         1,625         4.84         207         2,198         117         9         0         160         608         185         2.0         1         0           Water color         1,385         1,190         116         73         1,384         16         0         4         23         129         39         1         0         0           Other         8,383         6,201         1,390         720         8,145         157         35         19         228         1,055         336         45         1         0         0         0           Category total         47,69         31,873         12,598         2,965         46,457         968         135         96         1,296         6,102         1,87         125         7         0           Automotive/aircart/boat producs         5102         610         756         3,675         4,474         526         53         14         1,750         965         353         341         132         22         16         0         133         30         26         5         1         0         0         14         15         16         15	Pen/Ink	21,834	12,800	8,162	757	21,265	461	50	43	424	2,702	600	27	3	0
Water color         1,885         1,190         116         73         1,364         16         0         4         23         129         39         1         0         0           Other         8,363         6,201         1,390         720         8,145         157         35         19         258         1,055         336         45         1         0           Category total         47,695         3,1873         12,598         2,965         46,457         968         135         96         1,296         6,102         1,879         152         7         88         16         2           Ethylene glycol         5,102         610         756         3,675         4,474         526         53         14         1,750         965         953         3,41         132         22           Glycol other         136         65         11         58         134         20         0         333         30         26         5         14         132         22           Glycol other         3307         1,224         300         1,33         2,360         175         20         16         907         754         835         1	Typewriter correction fluid	2,326	1,625	484	207	2,198	117	9	0	160	608	185	20	1	0
Other         8,363         6,201         1,390         720         8,145         157         35         19         228         1,055         336         45         1         0           Unknown         430         303         89         32         96         13         0         0         20         85         13         0         0         0           Category total         47,695         31,873         12,986         6,612         1,879         15.7         88         16         2           Automotive/aircraft/boat products         5,102         610         756         3,675         4,474         73         7         2         582         327         517         88         16         2           Glycot other         136         65         11         56         314         1,750         965         953         341         132         22         0         0         30         30         26         5         14         132         22         0         0         0         30         30         26         5         14         9         2         0         0         0         0         30         30         26 <td>Water color</td> <td>1,385</td> <td>1,190</td> <td>116</td> <td>73</td> <td>1,364</td> <td>16</td> <td>0</td> <td>4</td> <td>23</td> <td>129</td> <td>39</td> <td>1</td> <td>0</td> <td>0</td>	Water color	1,385	1,190	116	73	1,364	16	0	4	23	129	39	1	0	0
Unknown         430         303         89         35         408         19         0         2         20         85         13         0         0           Category total         47,695         31,873         12,598         2,965         46,457         968         135         96         1,296         6,102         1,879         152         7         0           Automotive/aircraft/boat products         Brake fluid         1.528         382         146         985         1,441         73         7         2         582         327         517         888         16         2           Glycol other         136         655         11         58         134         20         0         33         30         26         5         1         0           Glycol and methanol         1212         72         23         114         203         4         3         1         666         407         380         85         162         18         1           Other         3,073         1,284         380         1,393         2,686         178         23         666         407         380         85         162         18	Other	8,363	6,201	1,390	720	8,145	157	35	19	258	1,055	336	45	1	0
Category total         47,695         31,873         12,598         2,965         46,457         968         135         96         1,296         6,102         1,879         152         7         0           Automotive/aircraft/boat products         Brake fluid         1,528         382         146         985         1,441         73         7         2         582         327         517         88         16         2         2           Ethylene glycol         5,102         610         756         3,675         4,474         526         53         14         1,750         965         953         341         132         22           Glycol other         136         65         11         58         134         22         0         33         30         26         51         1         0           Glycol other         3,073         1,284         300         1,393         2,860         175         20         66         407         330         685         23         5           Non-toxic         23         15         4         4         230         0         0         0         4         6         167         2         1	Unknown	430	303	89	35	408	19	0	2	20	85	13	0	0	0
Automotive/aircraft/boat products         Brake fluid         1,528         382         146         985         1,441         73         7         2         582         327         517         88         16         2           Ethylene glycol         5,102         610         756         3,675         4,474         526         53         14         1,750         965         53         341         132         22           Glycol other         136         65         11         58         134         20         0         33         30         26         5         1         0           Glycol and methanol         212         72         23         114         203         44         3         1         65         57         47         9         2         0           Hothoroarbon         3,073         1,284         380         1,383         2,860         178         23         5         666         407         380         865         122         18         1           Non-toxic         23         15         4         4         23         0         0         4,758         2,939         3,53         865         200         0 <td>Category total</td> <td>47,695</td> <td>31,873</td> <td>12,598</td> <td>2,965</td> <td>46,457</td> <td>968</td> <td>135</td> <td>96</td> <td>1,296</td> <td>6,102</td> <td>1,879</td> <td>152</td> <td>7</td> <td>0</td>	Category total	47,695	31,873	12,598	2,965	46,457	968	135	96	1,296	6,102	1,879	152	7	0
Brake fluid         1,528         382         146         985         1,441         73         7         2         582         327         517         88         16         2           Ethylene glycol         5,102         610         756         3,675         4,474         526         53         14         1,750         965         953         341         132         22           Glycol and methanol         122         72         23         114         203         4         3         1         65         57         47         9         2         0           Hydrocarbon         3,073         1,284         380         1,393         2,860         175         20         16         907         754         835         162         18         1           Methanol         1,500         352         234         902         1,286         175         17         24         618         330         680         146         7         0           Other         2,163         875         359         913         2,064         57         17         24         618         330         680         146         7         0	Automotive/aircraft/boat products														
Ethylene glycol         5,102         610         756         3,675         4,474         526         53         14         1,750         965         953         341         132         22           Glycol: other         136         65         11         58         134         2         0         0         33         30         26         5         1         0           Glycol: other         136         65         11         58         114         20         0         0         33         30         26         5         1         0         3073         128         188         1393         2,860         175         20         16         907         754         835         162         18         1           Methanol         1,500         352         234         902         1,286         178         23         5         666         407         380         85         23         5           Non-toxic         23         15         4         4         23         0         0         4         68         303         680         146         7         7         10         0           Unknown         303<	Brake fluid	1,528	382	146	985	1,441	73	7	2	582	327	517	88	16	2
Glycol: other       136       65       11       58       134       2       0       0       33       30       26       5       1       0         Glycol and methanol       212       72       23       114       203       4       3       1       65       57       47       9       2       0         Hydrocarbon       3,073       1,284       380       1,393       2,860       175       20       16       907       754       835       162       18       1         Methanol       1,500       352       234       902       1,286       178       23       5       666       407       380       85       23       5         Non-toxic       23       15       4       4       23       0       0       4       618       330       680       146       7       0         Other       2,163       875       359       913       2,064       57       17       24       618       330       680       146       7       0         Category total       14,040       3,734       1,964       8,211       12,751       1,047       125       63       4,75	Ethylene glycol	5,102	610	756	3,675	4,474	526	53	14	1,750	965	953	341	132	22
Given and methanol       212       72       23       114       203       4       3       1       65       57       47       9       2       0         Hydrocarbon       3,073       1,284       380       1,393       2,860       175       20       16       907       754       835       162       18       1         Methanol       1,500       352       234       902       1,286       178       23       5       666       407       380       85       23       5         Non-toxic       23       15       4       4       23       0       0       0       48       6       1       2       0       0         Other       2,163       875       359       913       2,064       57       17       24       618       330       680       146       7       0         Category total       14,040       3,734       1,964       8,211       12,751       1,047       125       63       4,758       2,939       3,533       865       200       30         Batteries	Glycol: other	136	65	11	58	134	2	0	0	33	30	26	5	1	0
Hydrocarbon       3,073       1,284       380       1,393       2,860       175       20       16       907       754       835       162       18       1         Methanol       1,500       352       234       902       1,286       178       23       5       666       407       380       85       23       5         Non-toxic       23       15       4       4       23       0       0       4       6       1       2       0       0         Other       2,163       875       359       913       2,064       57       17       24       618       330       680       146       7       0         Other       3,03       79       51       167       266       32       2       1       133       63       94       27       1       0         Category total       14,040       3,734       1,964       8,211       12,751       1,047       125       63       4,758       2,939       3,533       865       200       30         Batteries	Glycol and methanol	212	72	23	114	203	4	3	1	65	57	47	9	2	0
Methanol         1,500         352         234         902         1,286         178         23         5         666         407         380         85         23         5           Non-toxic         23         15         4         4         23         0         0         0         4         66         1         2         0         0           Other         2,163         875         359         913         2,064         57         17         24         618         330         680         146         7         0           Unknown         303         79         51         167         266         32         2         1         133         63         94         27         1         0           Category total         14,040         3,734         1,964         8,211         12,751         1,047         12         63         4,758         2,939         3,533         865         200         30           Batteries	Hydrocarbon	3,073	1,284	380	1,393	2,860	175	20	16	907	754	835	162	18	1
Non-toxic         23         15         4         4         23         0         0         4         6         1         2         0         0           Other         2,163         875         359         913         2,064         57         17         24         618         330         680         146         7         0           Unknown         303         79         51         167         266         32         2         1         133         63         94         27         1         0           Category total         14,040         3,734         1,964         8,211         12,751         1,047         125         63         4,758         2,939         3,53         865         200         30           Batteries         Jatomotive battery         1,468         107         194         1,150         1,442         10         1         12         404         86         567         126         2         0           Disc batteries         J         1,468         107         194         1,150         1,442         10         0         7         52         7         1         0         0	Methanol	1,500	352	234	902	1,286	178	23	5	666	407	380	85	23	5
Other         2,163         875         359         913         2,064         57         17         24         618         330         680         146         7         0           Unknown         303         79         51         167         266         32         2         1         133         63         94         27         1         0           Category total         14,040         3,734         1,964         8,211         12,751         1,047         125         63         4,758         2,939         3,533         865         200         30           Batteries         Automotive battery         1,468         107         194         1,150         1,442         10         1         12         404         86         567         126         2         0           Lithium         134         46         27         52         123         9         0         2         60         38         17         9         5         0           Mercuric oxide         15         9         4         2         15         0         0         0         28         28         2         0         0         0	Non-toxic	23	15	4	4	23	0	0	0	4	6	1	2	0	0
Unknown       303       79       51       167       266       32       2       1       133       63       94       27       1       0         Category total       14,040       3,734       1,964       8,211       12,751       1,047       125       63       4,758       2,939       3,533       865       200       30         Batteries       Automotive battery       1,468       107       194       1,150       1,442       10       1       12       404       86       567       126       2       0         Automotive battery       1,468       107       194       1,150       1,442       10       1       12       404       86       567       126       2       0         Disc batteries <t< td=""><td>Other</td><td>2,163</td><td>875</td><td>359</td><td>913</td><td>2.064</td><td>57</td><td>17</td><td>24</td><td>618</td><td>330</td><td>680</td><td>146</td><td>7</td><td>0</td></t<>	Other	2,163	875	359	913	2.064	57	17	24	618	330	680	146	7	0
Category total       14,040       3,734       1,964       8,211       12,751       1,047       125       63       4,758       2,939       3,533       865       200       30         Batteries       Automotive battery       1,468       107       194       1,150       1,442       10       1       12       404       86       567       126       2       0       0       Disc battery       0.52       7       1       0       0       70       52       7       1       0       0       0       10       1       2       404       86       567       126       2       0       0       Disc battery       0.52       7       1       0       0       0       70       52       7       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Unknown	303	79	51	167	266	32	2	1	133	63	94	27	1	0
Batteries         Automotive battery       1,468       107       194       1,150       1,442       10       1       12       404       86       567       126       2       0         Disc batteries       Alkaline (MnO2)       90       62       13       13       88       1       0       0       70       52       7       1       0       0         Alkaline (MnO2)       90       62       13       13       88       1       0       0       70       52       7       1       0       0         Lithium       134       46       27       52       123       9       0       2       60       38       17       9       5       0         Mercuric oxide       15       9       4       2       15       0       0       0       8       5       2       0       0       0         Silver oxide       52       25       11       16       47       4       0       0       28       28       2       0       0       0         Silver oxide       52       25       11       16       47       4       0	Category total	14,040	3,734	1,964	8,211	12,751	1,047	125	63	4,758	2,939	3,533	865	200	30
Batteries           Automotive battery         1,468         107         194         1,150         1,442         10         1         12         404         86         567         126         2         0           Disc batteries		,	-, -	,		, -	,-			,	,	-,			
Automotive battery       1,468       107       194       1,150       1,442       10       1       12       404       86       567       126       2       0         Disc batteries       Alkaline (MnO2)       90       62       13       13       88       1       0       0       70       52       7       1       0       0         Lithium       134       46       27       52       123       9       0       2       60       38       17       9       5       0         Mercuric oxide       15       9       4       2       15       0       0       0       8       5       2       0       0       0         Nickel cadmium       10       4       2       4       10       0       0       0       2       2       1       0       0         Silver oxide       52       25       11       16       47       4       0       0       28       28       2       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Batteries														
Disc batteries         Alkaline (MnO2)       90       62       13       13       88       1       0       0       70       52       7       1       0       0         Lithium       134       46       27       52       123       9       0       2       60       38       17       9       5       0         Mercuric oxide       15       9       4       2       15       0       0       0       8       5       2       0       0       0         Nickel cadmium       10       4       2       4       10       0       0       0       0       2       2       1       0       0         Silver oxide       52       25       11       16       47       4       0       0       28       28       2       0       0       0         Zinc-air       87       29       13       45       83       4       0       0       68       4       0       0       0         Other       16       7       657       227       2,144       56       3       1       1,424       1,023       105       27	Automotive battery	1,468	107	194	1,150	1,442	10	1	12	404	86	567	126	2	0
Alkaline (MnO2)       90       62       13       13       88       1       0       0       70       52       7       1       0       0         Lithium       134       46       27       52       123       9       0       2       60       38       17       9       5       0         Mercuric oxide       15       9       4       2       15       0       0       0       8       5       2       0       0       0         Nickel cadmium       10       4       2       4       10       0       0       0       0       2       2       1       0       0         Silver oxide       52       25       11       16       47       4       0       0       28       28       2       0       0       0         Zinc-air       87       29       13       45       83       4       0       0       63       58       4       0       0       0         Other       16       7       657       227       2,144       56       3       1       1,424       1,023       105       27       1       0	Disc batteries														
Lithium       134       46       27       52       123       9       0       2       60       38       17       9       5       0         Mercuric oxide       15       9       4       2       15       0       0       0       8       5       2       0       0       0         Nickel cadmium       10       4       2       4       10       0       0       0       2       2       1       0       0         Silver oxide       52       25       11       16       47       4       0       0       28       28       2       0       0       0         Zinc-air       87       29       13       45       83       4       0       0       68       9       0       0       0         Other       16       7       6       3       15       1       0       0       6       9       2       0       0       0         Unknown       2,207       1,312       657       227       2,144       56       3       1       1,424       1,023       105       27       1       0       0         <	Alkaline (MnO2)	90	62	13	13	88	1	0	0	70	52	7	1	0	0
Mercuric oxide         15         9         4         2         15         0         0         8         5         2         0         0         0           Nickel cadmium         10         4         2         4         10         0         0         0         0         2         2         1         0         0           Silver oxide         52         25         11         16         47         4         0         0         28         28         2         0         0         0           Zinc-air         87         29         13         45         83         4         0         0         68         58         4         0         0         0           Other         16         7         6         3         15         1         0         0         6         9         2         0         0         0           Unknown         2,207         1,312         657         227         2,144         56         3         1         1,424         1,023         1,125         176         3         0           Other         5,543         2,815         1,393         1,297 <t< td=""><td>Lithium</td><td>134</td><td>46</td><td>27</td><td>52</td><td>123</td><td>9</td><td>0</td><td>2</td><td>60</td><td>38</td><td>17</td><td>9</td><td>5</td><td>0</td></t<>	Lithium	134	46	27	52	123	9	0	2	60	38	17	9	5	0
Nickel cadmium         10         4         2         4         10         0         0         0         0         2         2         1         0         0           Silver oxide         52         25         11         16         47         4         0         0         28         28         2         0         0         0           Zinc-air         87         29         13         45         83         4         0         0         63         58         4         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Mercuric oxide	15	9	4	2	15	0	0	0	8	5	2	0	0	0
Silver oxide       52       25       11       16       47       4       0       0       28       28       2       0       0       0         Zinc-air       87       29       13       45       83       4       0       0       63       58       4       0       0       0         Other       16       7       6       3       15       1       0       0       6       9       2       0       0       0         Unknown       2,207       1,312       657       227       2,144       56       3       1       1,424       1,023       105       27       1       0         Dry cell battery       5,543       2,815       1,393       1,297       5,311       187       32       3       747       1,180       1,125       176       3       0         Other       116       39       28       49       113       3       0       0       14       24       27       7       0       0	Nickel cadmium	10	4	2	4	10	0	0	0	0	2	2	1	0	0
Zinc-air872913458340063584000Other1676315100692000Unknown2,2071,3126572272,14456311,4241,0231052710Dry cell battery5,5432,8151,3931,2975,3111873237471,1801,12517630Other116392849113300142427700	Silver oxide	52	25	11	16	47	4	0	0	28	28	2	0	0	0
Other         16         7         6         3         15         1         0         6         9         2         0         0         0           Unknown         2,207         1,312         657         227         2,144         56         3         1         1,424         1,023         105         27         1         0           Dry cell battery         5,543         2,815         1,393         1,297         5,311         187         32         3         747         1,180         1,125         176         3         0           Other         116         39         28         49         113         3         0         0         14         24         27         7         0         0	Zinc-air	87	29	13	45	83	4	0	0	63	58	4	0	0	0
Unknown2,2071,3126572272,14456311,4241,0231052710Dry cell battery5,5432,8151,3931,2975,3111873237471,1801,12517630Other116392849113300142427700	Other	16	7	6	3	15	1	0	0	6	9	2	0	0	0
Dry cell battery         5,543         2,815         1,393         1,297         5,311         187         32         3         747         1,180         1,125         176         3         0           Other         116         39         28         49         113         3         0         0         14         24         27         7         0         0	Unknown	2,207	1,312	657	227	2,144	56	3	1	1,424	1,023	105	27	1	0
Other 116 39 28 49 113 3 0 0 14 24 27 7 0 0	Dry cell battery	5,543	2,815	1,393	1,297	5,311	187	32	3	747	1,180	1,125	176	3	0
	Other	116	39	28	49	113	3	0	0	14	24	27	7	0	0
Unknown 134 41 37 56 128 6 0 0 23 24 43 13 1 0	Unknown	134	41	37	56	128	6	0	0	23	24	43	13	1	0
Category total         9,872         4,496         2,385         2,914         9,519         281         36         18         2,847         2,529         1,903         360         12         0	Category total	9,872	4,496	2,385	2,914	9,519	281	36	18	2,847	2,529	1,903	360	12	0

TABLE 22A.	Demographic Profile	of Exposure Cases	by Generic (	Category of	Substances and	Products: No	npharmaceuticals (	Continued)
								/

	Age			_	Rea	ason		Treated in Health		(	Outcome			
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Bites and envenomations														
Coelenterate	1,329	116	649	556	1,326	1	0	1	123	39	556	74	3	0
Fish	1,389	33	249	1,094	1,385	1	1	2	410	11	422	146	4	0
Other/unknown	492	205	90	185	471	14	2	4	83	37	98	27	2	0
Insects														
Ant/fire ant	2,708	948	391	1,352	2,676	7	19	5	220	73	692	143	7	0
Bee/wasp/hornet	12,632	2,494	2,425	7,650	12,613	11	2	6	1,046	140	4,138	671	16	0
Caterpillar	2,428	539	628	1,241	2,409	9	3	7	188	76	679	76	0	0
Centipede/millipede	2,051	315	390	1,323	2,044	2	2	2	131	60	512	71	0	0
Mosquito	1,084	225	190	652	1,078	0	1	3	154	12	199	44	1	0
Scorpion	15,687	1,305	3,044	11,300	15,679	5	0	3	941	172	2,878	508	8	2
Tick	3,130	781	617	1,688	3,122	2	1	4	485	104	462	78	1	0
Other	17,527	3,490	2,892	11,029	17,359	36	85	25	2,547	408	3,543	996	14	1
Mammals						-	-	-				_	-	
Bat	374	50	59	249	373	0	0	0	170	87	51	7	0	1
Cat	818	122	173	502	816	0	0	2	413	15	203	40	0	0
Dog	1,618	269	687	640	1,612	1	0	2	1,071	56	462	100	2	0
Fox	13	0	3	10	13	0	0	0	10	2	3	2	0	0
Human	83	15	21	45	76	2	4	0	31	1	17	10	0	0
Raccoon	111	17	25	65	111	0	0	0	54	6	29	0	0	0
Rodent/lagomorph	1,824	432	657	694	1,808	5	5	4	404	79	385	30	0	0
Skunk	258	36	60	154	245	5	5	1	19	18	59	2	0	0
Other	1,294	217	440	609	1,284	3	0	1	583	73	231	31	0	0
Reptile: other/unknown	1,096	363	368	352	1,066	14	4	1	204	63	316	36	2	0
Snakes		10	105							10				
Copperhead	889	43	185	656	887	2	0	0	784	13	336	398	30	0
Coral	88	5	26	57	88	0	0	0	/5	5	37	20	1	0
Cottonmouth	1/3	2	40	129	1/3	0	0	0	138	4	73	56	8	0
Crotaline: unknown	25	1	9	15	25	0	0	0	19	4	10	/	1	0
Rattlesnake	1,150	53	178	902	1,137	9	3	1	1,014	28	235	567	94	2
Exotic snakes	105	0		100	100	•	0	0	100	0		50	-	0
Poisonous	125	3	14	106	122	3	0	0	108	2	38	52	1	0
Nonpoisonous	100	11	58	83	155	0	0	0	60	3	49	9	0	0
Unknown if poisonous	1 070	0	3	4	1 074	0	0	1	4 500	100	710	0	0	0
Nonpoisonous snake	1,970	161	191	1 202	1,974	1	0	0	1 260	70	719	205	24	0
Chikilowii shake	2,145	101	000	1,303	2,143	1	0	0	1,309	79	920	395	34	0
Spiders Black widow	0.796	015	115	0 100	0 700	4	0	0	907	140	760	201	44	0
Black widow	2,700	215	415	2,130	2,702	4	0	1	1 09/	149	709	591	24	0
Nearotizing apider: other	2,944	244	400	2,204	2,935	0	0	0	1,004	52	40	004	34	0
Tarantula	233	10	40	160	200	4	1	2	50	11	43	13	0	0
Other spider	12 408	1 / 32	2 209	8 655	12 383	12	6	2	1 761	246	2 868	7/9	8	0
Linknown insect or spider	4 813	615	798	3,380	4 805	1	1	3	614	240	2,000	189	4	0
Other/unknown bite/	4,010	010	100	0,000	-1,000			Ũ	014	21	000	100		Ū
envenomation	447	62	80	293	447	0	0	0	123	9	168	39	2	0
Category total	98,585	15,080	20,065	62,651	98,130	155	145	89	17,981	2,270	23,776	6,721	297	6
Building and construction														
Caulking compound and putty	2,704	1.858	175	662	2.664	17	2	21	238	469	213	45	1	0
Cement. concrete	1.894	462	130	1.283	1.841	18	8	25	709	190	417	379	14	0
Insulation	,			,	, -									
Asbestos	194	24	30	134	193	1	0	0	28	26	9	5	0	0
Fiberglass	1,492	565	262	657	1,438	20	8	23	176	119	309	48	1	0
Urea/formaldehyde	116	36	12	66	114	1	0	1	21	19	15	6	0	0
Other	256	130	19	106	253	1	0	1	35	39	37	6	0	0
Unknown	80	29	12	39	79	0	0	0	14	8	15	5	0	0
Soldering flux	345	126	43	174	338	1	3	2	113	55	93	29	3	0
Other	2.349	1.439	144	748	2.306	17	7	18	313	374	328	76	4	0
Unknown	127	26	11	87	118	7	0	2	37	21	22	14	2	0
Category total	9,557	4,695	838	3,956	9,344	83	28	93	1,684	1,320	1,458	613	25	0
- ·														
Chemicals	,									<b>.</b>			-	-
Acetone	1,251	377	168	695	1,140	78	10	10	386	216	320	97	8	0
Acids	0.450		0.15	0.010	0.000	~~		<u> </u>	4 000	<b>675</b>	4 000	450	~~	6
Hydrochloric	3,452	179	615	2,613	3,288	80	40	32	1,293	275	1,206	452	22	2
Hydrofluoric	1,159	49	62	956	1,136	14	1	3	917	163	391	293	23	5
Other	5,348	523	861	3,877	5,120	111	39	55	2,108	460	1,850	777	42	2
Unknown	467	31	80	351	432	10	15	8	193	25	144	((	4	U

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

		Age			Rea	son		Treated in Health		(	Outcome			
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Alkali	5,175	985	839	3,286	4,944	117	44	56	2,284	610	1,508	824	63	3
Ammonia	5,287	1,113	707	3,421	4,938	214	60	51	1,654	622	1,642	550	34	1
Borate/boric acid	2,724	1,317	315	1,071	2,501	150	39	24	481	614	299	53	5	1
Chlorate	64	18	17	29	63	0	1	0	16	17	8	14	0	0
Cyanide	224	10	17	185	159	25	25	3	140	39	48	16	10	8
Dioxin	10	2	100	8	10	0	0	0	3	4	2	100	100	10
Ethylene glycol Formaldebyde/formalin	975	143	322	092 765	1 063	130	22	2	516 477	235	370	901	122	18
Glycol: other	1,200	402	242	703 544	1 109	54	7	20	406	207	302	83	17	1
Ketone	714	227	63	416	690	11	2	8	315	123	220	78	4	0
Methylene chloride	694	154	88	448	665	22	3	3	263	116	198	58	7	0
Nitrate and nitrite	1,062	278	376	400	961	75	17	5	230	207	201	35	7	0
Phenol/creosote	906	89	130	672	883	7	1	13	355	100	277	115	5	1
Strychnine	46	14	5	27	27	13	2	2	23	8	4	6	3	0
Toluene diisocyanate	764	132	85	542	746	8	1	7	185	71	165	47	1	0
Other/unknown	21,843	7,201	3,436	10,856	20,145	657	444	474	5,595	3,720	4,167	1,216	106	6
Category total	54,623	13,383	8,528	31,854	50,708	2,011	784	796	17,840	8,004	13,446	4,987	492	50
Cleaning substances (household)														
Ammonia cleaner	2 4 1 8	971	249	1 172	2 258	111	24	15	437	393	555	153	10	0
Automatic dishwasher detergents	2,110	011	210	1,172	2,200		21	10	-07	000	000	100	10	Ū
Granular	4,450	3,733	137	565	4,411	18	14	6	204	1,398	697	41	3	0
Liquid or gel	3,830	3,277	103	445	3,797	15	10	8	260	1,160	722	56	3	0
Tablet	789	728	13	47	786	2	1	0	29	296	89	1	0	0
Rinse agent	1,280	1,202	19	57	1,272	7	0	1	54	262	147	10	0	0
Other/unknown	1,057	819	46	189	1,037	1	9	9	69	284	151	16	0	0
Bleaches	700			075		10					400			
Borate	728	367	71	275	690	19	6	11	115	124	168	31	2	0
Hypochlorite	53,100	20,801	5,537	26,301	49,862	2,128	568	419	9,922	7,484	15,122	2,456	56	2
Nonhypochlorite	645	272	74	291	606	27		4	114	92	191	19	4	0
	540	210	58	254	501	20	11	6	134	1 0 1 0	173	29	4	0
Clasher	5,410	4,105	299	987	5,242	70	34	60	597	1,218	820	90	3	U
Anionio/nonionio	0 /01	1 000	100	515	2 404	65	4	7	257	592	250	11	1	0
Attorne/upknown	2,401	1,020	120	711	2,404	86	4 18	25	207	555	468	44 77	1	0
Disinfectants	2,000	1,002	104	711	2,170	00	10	25	037	555	400		4	0
Hypochlorite	4 298	2 041	491	1 740	4 103	100	34	56	944	694	1 158	287	5	1
Phenol	1,735	1.072	181	475	1.629	73	18	7	302	328	420	62	2	0
Pine oil	5.540	3.156	525	1.800	4.989	422	56	53	1.256	1.354	1.224	168	18	3
Other/unknown	4,328	2,624	477	1,164	4,081	141	41	53	659	839	, 991	131	5	0
Drain openers														
Acid: hydrochloric	298	25	22	246	267	23	0	8	79	38	107	39	3	0
Acid: sulfuric	512	43	35	431	501	8	1	2	195	44	174	101	6	2
Acid: other/unknown	174	17	12	143	167	7	0	0	56	10	66	24	1	1
Alkali	3,747	506	311	2,869	3,458	213	27	36	1,152	452	1,071	493	59	7
Other/unknown	756	107	72	559	708	33	8	6	183	97	202	60	7	2
Fabric softeners/antistatic agents														
Aerosol/spray	98	66	10	21	93	3	0	1	3	20	10	3	0	0
Dry/powder	8	2	1	5	8	0	0	0	1	0	3	0	0	0
Liquid	1,114	896	57	156	1,071	31	0	10	106	279	127	10	0	0
Solid/sheet	450	398	16	34	437	5	1	6	12	105	29	4	0	0
	22	18	0	3	22	0	0	0	3	10	2	0	0	0
Glass cleaners	1 564	1 005	106	201	1 400	50		2	107	407	004	20	0	0
Animonia Apionio/popionio	1,304	1,220	130	201	1,492	09 11	0	0	127	407	224	20	1	0
	200	6 01 2	23	47	244 7 490	201	69	10	50 600	1 940	4/	106	2	0
Other/unknown	1,855	1 /13	200	314	1,400	11/	1/	3	247	1,040	370	26	3	0
Hand disbwashing	1,044	1,410	200	010	1,010	114	14	0	241	450	015	20	-	0
Anionic/nonionic	6,190	4.061	483	1.617	5.866	103	95	120	442	818	1.307	82	0	2
Other/unknown	1,908	1,180	166	554	1,776	40	40	51	149	226	401	25	0	0
Laundry additives	.,	,			.,					0			-	-
Bluing/brightening agent	86	31	16	39	78	2	2	4	13	19	21	6	0	0
Detergent booster	66	40	8	18	61	3	1	1	3	17	13	2	0	0
Enzyme/microbiological														
additive	81	48	7	25	79	1	0	1	11	19	15	2	0	0
Water softener	64	11	8	42	50	0	1	10	7	8	8	0	0	0
Other/unknown	589	471	27	89	561	14	1	13	49	129	98	7	0	1
Laundry detergents								<i></i>						-
Granular	6,079	5,000	303	757	5,921	95	27	32	611	1,278	1,462	81	2	υ

TABLE 22A.	Demographic Profile	of Exposure Cas	ses bv Generic (	Category of Sub	ostances and Products	: Nonpharmaceuticals	(Continued)
			···· <b>·</b>				\/

ProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvideProvide<			Age			Rea	son		Treated in Health		C	Outcome			
Linki4.413.162.906.206.707.157.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.107.10		No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Shap         194         91         10         33         12         5         1         5         10         20         2         0         0           Landy prevalvitative mover         7         0         0         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Liquid	4,411	3,185	289	923	4,242	115	13	37	563	715	1,125	95	5	2
Otherkninknown         272         189         13         59         257         5         4         4         4         182         62         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Soap</td> <td>134</td> <td>91</td> <td>10</td> <td>33</td> <td>125</td> <td>3</td> <td>1</td> <td>5</td> <td>10</td> <td>20</td> <td>27</td> <td>2</td> <td>0</td> <td>0</td>	Soap	134	91	10	33	125	3	1	5	10	20	27	2	0	0
Lander generation         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Other/unknown	272	198	13	59	257	5	4	4	41	62	55	6	0	0
Lagis showshaded         1.201         1.00         6         9         9         1.10         1.00         0         9         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         0.10         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1         1         1         0         0         0         0         1         1         1         0         0         0         0         1         1         1         0         0         0         0         1         1         1         1         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th< td=""><td>Laundry prewasn/stain removers</td><td>2</td><td>2</td><td>0</td><td>0</td><td>2</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	Laundry prewasn/stain removers	2	2	0	0	2	0	0	0	0	0	0	0	0	0
Score         Score <th< td=""><td>Liquid solvent-based</td><td>1 201</td><td>1 001</td><td>58</td><td>139</td><td>1 180</td><td>10</td><td>9</td><td>1</td><td>138</td><td>372</td><td>170</td><td>18</td><td>0</td><td>0</td></th<>	Liquid solvent-based	1 201	1 001	58	139	1 180	10	9	1	138	372	170	18	0	0
Online/introduce subset/ based         01         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Sprav solvent-based</td> <td>271</td> <td>233</td> <td>14</td> <td>23</td> <td>267</td> <td>3</td> <td>1</td> <td>0</td> <td>41</td> <td>67</td> <td>64</td> <td>6</td> <td>1</td> <td>0</td>	Sprav solvent-based	271	233	14	23	267	3	1	0	41	67	64	6	1	0
Dry extrambaned         178         156         8         19         177         1         0         0         9         23         0         0         0           Dignal subtaint-based         541         477         12         33         53         35         5         0         99         11         115         15         0         0           Diverviolence         555         443         36         174         588         0         0         7         15         15         16         0         0           Micelanesci         535         549         144         168         544         178         178         183         548         148         178         177         170         177         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170	Other/unknown solvent-based	61	46	3	12	57	0	3	1	8	5	14	1	0	0
Lingia diractambased         2,133         2,134         2,137         2,13         2,13         2,13         3         3         3         5         0         9         111         114         14         2,2         2         0           Other Antronovo suffactam-         5         7         7         8         0         0         0         7         15         15         1         0         0           Add         2,205         1,344         6         0.217         46         0.217         0.0         0.25         2,419         45.0         0.5         0.0         0         1.7         1.7         0.0         0.05         1.44         1.23         5.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0	Dry surfactant-based	178	156	3	19	177	1	0	0	9	23	20	0	0	0
Sproy subclusteribuned based         541         497         12         31         7         85         0         99         111         14         22         2         0           Checknizoon         85         443         38         114         589         4         0         1         71         15         15         0         0         0         7         75         15         15         0         0         0         7         75         15         15         0         0         0         7         75         15         15         0         0         0         7         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	Liquid surfactant-based	2,133	1,901	66	158	2,105	13	10	3	255	419	392	52	3	0
Other base         Bit         A         S         T         Bit         D         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T        <	Spray surfactant-based	541	497	12	31	533	3	5	0	99	111	114	22	2	0
Otherwinknown         595         443         386         114         586         4         0         1         7         1         199         112         1         7         1         2         0           Adadi         2,305         1,349         146         803         2,217         8,47         155         56         63         63         2,222         2,048         2,411         559         20         0           Anonchronicnic         6,777         4,467         522         232         122         98         14         157         57         83         978         149         125         40         0           Elhanol         316         155         54         77         300         10         3         3         48         10         0         10         27         7         3         0         0         10         27         10         13         10         0         11         10         11         10         11         10         1         10         1         0         1         0         1         0         0         0         0         10         10         10         10 <t< td=""><td>Other/unknown surfactant- based</td><td>85</td><td>74</td><td>3</td><td>7</td><td>85</td><td>0</td><td>0</td><td>0</td><td>7</td><td>15</td><td>15</td><td>1</td><td>0</td><td>0</td></t<>	Other/unknown surfactant- based	85	74	3	7	85	0	0	0	7	15	15	1	0	0
Minimeterisan channes         Line	Other/unknown	595	443	36	, 114	589	4	0	1	71	159	112	17	2	0
Adid         2,305         1,349         1,48         800         2,217         4.66         7         90         35.8         2,208         2,408         55.9         1         0           Arlanci/ronionic         6,777         4,447         552         252         53         212         38         170         63         376         649         375         641         122           Cationic         3,18         48         70         70         78         9         1         0           Elmanol         318         655         51         9         48         1077         30         10         12         44         30         0         12         11         17         3         0         0           Other framon         1,22         2,22         18         3         0         0         12         11         0         11         0         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         12         10         10         10         10         10         10         10         10         <	Miscellaneous cleaners					000	·	Ū		••				-	Ū
Akali         9,805         6,114         73         2,974         9,524         2,475         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757         757        757         757         <	Acid	2,305	1,349	146	803	2,217	46	7	30	355	549	455	95	1	0
Anion/containcic         6.777         4.467         525         517.7         6.717         6.71         157         57         63         878         174         1404         1.222         177         7         0           Ethanol         316         185         54         76         300         10         3         3         48         375         540         125         30         10         3         48         70         70         6         3         0         10         120         10         17         3         0         0         122         10         10         17         3         0         0         122         10         17         3         0         0         122         10         17         3         0         0         10         17         3         0         0         10         17         3         0         0         11         14         30         0         0         10         11         10         0         0         0         11         13         1         0         0         0         11         13         1         0         0         0         0         11	Alkali	9,895	6,141	736	2,974	9,524	245	53	63	2,262	2,048	2,413	559	20	0
Cathonic         2.223         1.02         2.82         9.33         2.129         9.86         16         5         6.49         7.75         5.40         12.5         4         0           Glycols         1,123         55.68         2.11         3.48         1.077         30         5         10         2.07         19.14         610         662         6.6         3         0           Methanol         61         2.2         2.07         19.44         685         6.8         3         0         0         2.2         10         6.42         3         0         0         2.2         10         2.42         3         0         0           Overt clearmer         2         1.6         3         1.0         2.77         2.0         2.83         1.41         0         1         0         1         0         0         0         0         0         1.23         2.83         1.03         1.23         2.83         1.04         2.02         707         0         0         0         1         1.0         0         1.0         0         0         1.1         1.0         1.0         1.0         0         0         0 <td>Anionic/nonionic</td> <td>6,777</td> <td>4,467</td> <td>525</td> <td>1,717</td> <td>6,471</td> <td>157</td> <td>57</td> <td>83</td> <td>878</td> <td>1,494</td> <td>1,232</td> <td>137</td> <td>7</td> <td>0</td>	Anionic/nonionic	6,777	4,467	525	1,717	6,471	157	57	83	878	1,494	1,232	137	7	0
Ethanol         316         185         54         76         300         10         3         3         3         48         70         76         9         1         0           Biogropanol         2277         1.644         668         628         2.822         97         33         12         414         610         622         68         3         0           Other/Linkown         1.148         6.906         1.08         3         0         0         12         10         71         3         0         0           Other/Linkown         1.148         6.906         1.08         3.10         2.7         0         2         0         66         8         6         1         0         0         0         1         1         0         1         0         1         0         0         0         1         1         0         2         13         0         0         0         0         1         1         0         2         13         0         0         0         0         1         1         0         2         1         0         1         1         1         0         0	Cationic	2,253	1,025	252	953	2,129	98	16	5	649	375	540	125	4	0
logocos         1,12.3         508         211         348         1,077         30         5         10         207         191         2680         34         1         0           Methanol         61         22         10         29         58         3         0         0         22         10         642         3         0         0           Over claamer         22         10         24         30         0         0         22         10         2.42         3         0         0           Over claamer         28         5         10         27         0         2         0         6         6         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Ethanol</td> <td>316</td> <td>185</td> <td>54</td> <td>76</td> <td>300</td> <td>10</td> <td>3</td> <td>3</td> <td>48</td> <td>70</td> <td>76</td> <td>9</td> <td>1</td> <td>0</td>	Ethanol	316	185	54	76	300	10	3	3	48	70	76	9	1	0
Bodynamic         2.272         1.644         0.683         0.622         1.9         3.3         1.2         1.4         610         0.62         608         3         0           Prinerol         5.2         2.8         5         1.9         4.8         4         0         0         1.2         1.0         1.7         3         0         0           Chmer/unknown         1.1458         6.808         1.08         2.7         0         2         0         6.6         8         6         1         0         0         0         1         1         0         1         0         1         0         1         0         1         0         1         0         1         0         0         0         1         1         0         1         0         0         0         0         0         0         1         1         0         1         0         0         0         0         0         0         0         1         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	Glycols	1,123	558	211	348	1,077	30	5	10	207	191	286	34	1	0
metalox         152         16         23         16         24         10         24         13         0         0           Other clannes         11.48         6.30         1.030         3.411         11.094         181         83         88         1.50         2.623         2.132         2.33         15         1           Add         2.89         16         3         10.75         2.664         83         88         1.50         2.622         7.87         13         1         3         4         0         1         1         0         1         1         0         1         1         0         1         1         0         1         1         0         1         1         0         1         1         0         1         1         0         1         1         0         0         1         1         0         0         1         1         0         0         0         1         1         0         0         0         0         1         1         0         0         0         1         1         0         0         0         1         1         0         0         0	Isopropanol	2,972	1,644	685	628	2,822	97	33	12	414	610 10	692	66	3	0
Other         Other <th< td=""><td>Phenol</td><td>52</td><td>22</td><td>5</td><td>29 19</td><td>48</td><td>4</td><td>0</td><td>0</td><td>12</td><td>10</td><td>24 17</td><td>3</td><td>0</td><td>0</td></th<>	Phenol	52	22	5	29 19	48	4	0	0	12	10	24 17	3	0	0
Over clearers         No.         <	Other/unknown	11.458	6.936	1.038	3.411	11.094	181	83	88	1.507	2.623	2,132	233	15	1
Adci2.8627.163.11.7152.5644.93.20011010100Othergent3.20.85.92.413.7152.5644.93.20110110100Other Inkinow3.220.80.92.443.780000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 <td>Oven cleaners</td> <td>,</td> <td>-,</td> <td>.,</td> <td>-,</td> <td>,</td> <td></td> <td></td> <td></td> <td>.,</td> <td>_,</td> <td>_,</td> <td></td> <td></td> <td></td>	Oven cleaners	,	-,	.,	-,	,				.,	_,	_,			
Akali         2,882         571         351         1,715         2,564         49         32         35         1,142         282         797         4.37         27         0           Otheryunknown         332         68         59         2.44         378         9         3         2         151         31         123         48         0         0           Akali         27         0         0         0         4         3         3         1         0         0           Anonichionic         37         1         0         2         3         0         0         0         4         3         3         1         0         0           Other/unknown         325         50         16         12         11         207         0         0         0         1         1         2         16         30         11         20         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Acid	29	16	3	10	27	0	2	0	6	8	6	1	0	0
Detergent         5         1         1         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         0         0           Aukai         27         6         1         20         23         0         0         0         0         0         1         11         20         0         0           Anonic/nonionic         372         73         24         370         446         10         2         11         102         33         211         71         22         0           Other acid         372         73         24         370         246         50         0         2         11         10         11         23         13         1         23         11         12         13         13         14         23         10         15         11         201         13         13         13         10         0         0           Other acidspended         71         73         34         65         14         10         10	Alkali	2,682	571	351	1,715	2,564	49	32	35	1,042	262	797	437	27	0
Other         Other         Mail         2         1         1         1         123         48         2         0           Make         Maxit         27         6         1         20         27         0         0         0         4         3         133         1         0         0           Anionic/nonionic         3         1         0         2         1         1         0         0         0         1         11         20         0         0         0         1         11         0         0           Other/unknown         325         60         16         245         288         13         2         21         188         39         3         1         0         0           Spot removers/dry cleaning agents         7         33         11         26         1         0         0         0         4         2         0         0         0           Spot removers/dry cleaning agents         7         3         13         6         1         0         0         0         13         10         0         0         0           Spot removers/dry cleaning agents         27	Detergent	5	1	1	3	4	0	1	0	1	1	0	1	0	0
Basis         Basis         Prescription         <	Other/unknown	392	86	59	244	378	9	3	2	151	31	123	48	2	0
Articali       27       6       1       20       27       0       0       0       4       3       13       1       0       0         Arianic/nonionic       33       1       20       73       24       370       446       10       2       11       207       93       211       71       2       0       0         Other acid       372       214       486       6       0       1       18       54       132       37       0       0       0         Other acid       372       214       866       6       0       118       54       132       31       0       0         Other anovers/dy cleaning agents       33       33       11       0       0       9       9       8       1       0       0         Anionic/nonionic       473       384       22       65       466       5       0       2       68       93       93       17       0       0         Perchinoreative       27       13       3       1       26       41       13       0       0       0       1       10       0       0         M	Rust removers														
Allocation         Allocation         Allocation         Allocation         B         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C <thc< th="">         C        C</thc<>	Alkali Anionio/nonionio	27	6	1	20	27	0	0	0	4	3	13	1	0	0
Injoinduin, audi       412       113       21       11       213       211       211       21       21       23       211       21       20         Other acid       325       60       16       245       288       13       2       21       68       30       114       23       0       1         Spot removers/dy cleaning agents       473       384       22       65       466       5       0       2       78       93       17       0       0         Glycol       119       79       73       2115       1       2       78       93       1       0       0         Perchloroethylene       27       13       3       11       26       1       0       0       4       2       0       0       0       0       4       2       0       0       0       0       4       2       0       0       0       0       14       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0<	Anionic/nonionic	د 172	1 73	24	2 370	3 116	10	2	11	207	03	1 211	71	2	0
Other         Other <th< td=""><td>Other acid</td><td>372</td><td>119</td><td>37</td><td>214</td><td>365</td><td>6</td><td>0</td><td>1</td><td>118</td><td>54</td><td>132</td><td>37</td><td>0</td><td>0</td></th<>	Other acid	372	119	37	214	365	6	0	1	118	54	132	37	0	0
Spot removers/dry cleaning agents       Anionic/nonionic       Arrow and the second se	Other/unknown	325	60	16	245	288	13	2	21	68	30	114	23	Ő	1
Anionic/nonionic         473         384         22         65         466         5         0         2         68         93         93         17         0         0           Glycol         119         79         7         32         115         1         1         2         17         27         18         3         0         0           Berchloreethylene         27         13         3         1         26         1         0         0         4         2         0         0         0           Other halogenated hydrocarbon         74         27         6         41         67         2         3         1         15         15         17         4         0         0           Other halogenated mydrocarbon         714         177         79         202         9         1         2         55         55         58         1         0         0           Starch/Mark in finishysing         771         636         65         69         738         29         2         26         14         3         314         440         951         270         16         6         6           Va	Spot removers/dry cleaning agents														
Glycol11979732115112172718300Perchloroethylene271331126100998100Defnance731136100998100Other halogenated742764167231155558100Other nonhalogenated71636656973829222615350300Other/unknown14188104113800314342920166Acid2,7499352621,5292,5841251125834440951270166Akali2,0181,419944911,962441732554739455200Other/unknown3,1862,5291,5353,10772141384393529220166111179410001111111111111111111111111111	Anionic/nonionic	473	384	22	65	466	5	0	2	68	93	93	17	0	0
Perchloroethylene         27         13         33         11         26         1         0         0         9         9         8         1         0         0           Isopropanol         7         3         1         3         6         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	Glycol	119	79	7	32	115	1	1	2	17	27	18	3	0	0
Isopropanol       7       3       1       3       6       1       0       0       0       4       2       0       0       0       0         Other halogenated hydrocarbon       74       27       6       41       67       2       3       1       15       15       17       4       0       0         Other nonhalogenated hydrocarbon       214       117       17       79       202       9       1       2       55       55       58       1       0       0         Other halogenated hydrocarbon       214       117       17       79       202       9       1       2       55       55       58       1       0       0       0         Starch/abit       665       69       738       29       2       2       61       13       314       34       34       55       20       0       0         Cide       2,749       935       262       1,529       2,584       15       11       7       33       314       843       323       56       3<       1         Other/unknown       3,186       2,529       193       3,107       72	Perchloroethylene	27	13	3	11	26	1	0	0	9	9	8	1	0	0
Other naiogenated hydrocarbon         74         27         6         41         67         2         3         1         15         17         4         0         0           Other nonhalogenated hydrocarbon         141         188         10         41         138         0         0         3         14         34         29         2         0         3         14         34         29         2         2         2         2         153         55         58         1         0         0           Other/unknown         141         88         10         41         138         0         0         3         14         34         29         2         2         2         2         2         2         3         1         3         3         4         3         2         2         0         0           Start/fabric finish/szing         7/1         835         262         1,525         2,584         125         11         25         834         440         951         270         16         6           Aid         3,186         2,529         16         17         2,158         316         17         4 <td>Isopropanol</td> <td>7</td> <td>3</td> <td>1</td> <td>3</td> <td>6</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td>	Isopropanol	7	3	1	3	6	1	0	0	0	4	2	0	0	0
Other nonhalogenated hydrocarbon         214         117         17         79         202         9         1         2         55         55         58         1         0         0           Other/unknown         141         88         10         1138         0         0         3         14         34         29         2         0         0           Starch/fabric finish/sizing         771         636         65         69         738         29         2         2         26         153         50         3         0         0           Acid         2,749         935         262         1,529         2,584         125         11         25         834         440         951         270         16         6           Akiai         2,018         1,419         94         491         1,962         44         1         7         325         547         394         55         2         0           Other/unknown         3,186         2,629         119         517         3,109         72         14         29         821         548         1,167         261         6         0         AiAiai         199	Other halogenated hydrocarbon	74	27	6	41	67	2	3	1	15	15	17	4	0	0
hydrocarbon2141171779202912555558100Other/unknown141881041138003143429200Starch/fabr/szing77163665697382922261535350300Toilet bowl cleaners27499352621,5292,5841251125834440951270166Alcid2,0181,149944911,96244173255473945520Other/unknown3,1862,5291195173,10956413314843323563<1Wall/floor/lile cleaners714292,5841,573,10956413314843323563<1Akidi9,9006,4397672,6229,3633,34551361,1792,2722,5183966950Anionic/nonionic2,0401,2391776101,972477103834054577222Cationic1,9331,2541,4625241,357381032553635310Glycol2,1751,584151429 <t< td=""><td>Other nonhalogenated</td><td></td><td></td><td>•</td><td></td><td>0.</td><td>-</td><td>0</td><td>·</td><td></td><td></td><td></td><td>•</td><td></td><td>Ū</td></t<>	Other nonhalogenated			•		0.	-	0	·				•		Ū
Other/unknown         141         88         10         41         138         0         0         3         14         34         29         2         0         0           Starch/fabric finish/sizing         771         636         65         69         738         29         2         2         26         153         50         3         0         0           Acid         2,749         935         262         1,529         2,584         125         11         25         834         440         951         2,70         16         6           Akai         2,018         1,419         94         491         1,962         44         1         7         325         547         394         55         2         0           Other/unknown         3,186         2,529         119         571         3,109         72         14         29         821         548         1,167         261         6         0           Akai         9,900         6,439         767         2,622         9,363         34         55         136         1,799         2,272         2,518         396         12         0         0 <t< td=""><td>hydrocarbon</td><td>214</td><td>117</td><td>17</td><td>79</td><td>202</td><td>9</td><td>1</td><td>2</td><td>55</td><td>55</td><td>58</td><td>1</td><td>0</td><td>0</td></t<>	hydrocarbon	214	117	17	79	202	9	1	2	55	55	58	1	0	0
Starch/fabric finish/sizing         771         636         65         69         738         29         2         2         26         153         50         3         0         0           Toilet bowl cleaners         Acid         2,749         935         262         1,529         2,584         125         11         25         834         440         951         270         16         6           Alkali         2,018         1,419         94         491         1,962         44         1         7         325         547         394         55         2         0           Other/unknown         3,186         2,529         119         517         3,109         56         4         13         314         843         323         56         3         1           Walt/floor/tile cleaners         Acid         3,224         1,421         245         1,535         3,107         72         14         29         821         548         1,167         261         6         0           Alkali         9,000         6,439         767         2,622         9,363         34         12         341         457         398         69	Other/unknown	141	88	10	41	138	0	0	3	14	34	29	2	0	0
Acid2,7499352621,5292,5841251125834440951273666Alkali2,0181,419944911,96244173255473945520Other/unknown3,1862,5291195173,109564133148433235631Wal/floor/file cleaners5122,5291,9353,1077214298215481,16726160Alkali9,9006,4397672,6229,63334551361,7992,2722,518396120Anionic/nonionic2,0401,2391776101,972477103834054577220Cationic1,9331,2541465241,355738123414573886950Glycol2,1751,5841514292,102504172535523635310Glycol2,1751,5841514292,102504172535523635310Cationic1,8811,1841605211,766907153344753875020Uher/unknown1,376768125460	Starch/fabric finish/sizing	771	636	65	69	738	29	2	2	26	153	50	3	0	0
Alkali       2,149       353       262       1,539       2,084       123       11       23       634       440       951       270       16       0         Alkali       2,018       1,419       94       491       1,962       44       1       7       325       547       394       55       2       0         Other/unknown       3,186       2,529       119       517       3,109       56       4       13       314       843       323       56       3       1         Wall/floor/file cleaners	I ollet bowl cleaners	0.740	025	060	1 500	0 5 9 4	105	11	05	004	440	051	070	16	c
Dither/unknown       3,186       2,579       119       517       3,109       56       4       13       314       843       323       56       3       1         Wall/floor/tile cleaners       Acid       3,224       1,421       245       1,535       3,107       72       14       29       821       548       1,167       261       6       0         Akidi       9,900       6,439       767       2,622       9,363       334       55       136       1,799       2,272       2,518       396       12       0         Anionic/nonionic       2,040       1,239       177       610       1,972       47       7       10       383       405       457       72       2       0         Cationic       1,933       1,254       146       524       1,835       73       8       12       341       457       398       69       5       0         Ethanol       45       37       2       6       450       0       0       2       19       4       0       0       0         Glycol       2,175       1,584       151       429       2,102       50       4	Acid	2,749	935 1 / 1 Q	202	1,529	2,004	125	1	25	004 325	440 547	304	270	2	0
Wall/floor/tile cleaners         Acid         3,224         1,421         245         1,535         3,107         72         14         29         821         548         1,167         261         6         0           Alkali         9,900         6,439         767         2,622         9,363         334         55         136         1,799         2,272         2,518         396         12         0           Anionic/nonioric         2,040         1,239         177         610         1,972         47         7         10         383         405         457         72         2         0           Cationic         1,933         1,254         146         524         1,835         73         8         12         341         457         398         69         5         0           Glycol         2,175         1,584         151         429         2,102         50         4         17         253         552         363         53         1         0           Isopropanol         1,881         1,184         160         521         1,766         90         7         15         334         475         387         50	Other/unknown	3,186	2,529	119	517	3.109	56	4	13	314	843	323	56	3	1
Acid3,2241,4212451,5353,1077214298215481,16726160Alkali9,9006,4397672,6229,683334551361,7992,2722,518396120Anionic/nonionic2,0401,2391776101,972477103834054577220Cationic1,9331,2541465241,835738123414573986950Ethanol453726450002133633100Glycol2,1751,5841514292,1025044172535523635310Isopropanol1,8811,1841605211,766907153344753875020Other/unknown1,3767681254601,2933410332542873355940Category total212,660121,84118,0571,105202,4546,4401,6221,78435,05241,18449,4258,27035323532323532323633300021,8413,46533,36313103350541,18449,	Wall/floor/tile cleaners	-,	_,			-,		-						-	
Alkali9,9006,4397672,6229,363334551361,7992,2722,518396120Anionic/nonionic2,0401,2391776101,972477103834054577220Cationic1,9331,2541465241,835738123414573986950Ethanol453726450002194000Glycol2,1751,5841514292,102504172535523635310Isopropanol1,8811,1841605241,766907153344753875020Other/unknown1,3767681254601,2933410332542873355940Category total212,660121,84118,0571,105202,4546,4401,6221,78435,05241,18449,4258,27035532Industrial cleanersH11878510912071350565620180Aikali4,0731,3455132,1833,85313954221,8065601,340557300Aikali4,0731,3455132,183	Acid	3,224	1,421	245	1,535	3,107	72	14	29	821	548	1,167	261	6	0
Anionic/nonionic2,0401,2391776101,972477103834054577220Cationic1,9331,2541465241,835738123414573986950Ethanol453726450002194000Glycol2,1751,5841514292,102504172535523635310Isopropanol1,8811,1841605211,766907153344753875020Other/unknown1,3767681254601,2933410332542873355940Category total121,660121,84118,20571,105202,4546,4401,6221,78435,05241,18449,4258,27035532Acid2,8649972041,6382,74782112071350565620180Alkali4,0731,3455132,1833,85313954221,8061,340557300Acid4,0731,3455132,1833,85313954221,8061,340557300Alkali4,0731,3455132,1841,2954816 </td <td>Alkali</td> <td>9,900</td> <td>6,439</td> <td>767</td> <td>2,622</td> <td>9,363</td> <td>334</td> <td>55</td> <td>136</td> <td>1,799</td> <td>2,272</td> <td>2,518</td> <td>396</td> <td>12</td> <td>0</td>	Alkali	9,900	6,439	767	2,622	9,363	334	55	136	1,799	2,272	2,518	396	12	0
Cationic1,9331,2541465241,835738123414573986950Ethanol453726450002194000Glycol2,1751,5841514292,102504172535523635310Isopropanol1,8811,1841605211,766907153344753875020Other/unknown1,3767681254601,2933410332542873355940Wheel cleaner: HF/bifluoride110187851091007510442700Category total212,660121,84118,20571,105202,4546,4401,6221,78435,05241,18449,4258,27035532Industrial cleanersAcid2,8649972041,6382,747821120713505656201800Akiali4,0731,3455132,1833,85313954221,8065601,340557300Acid4,0731,3455132,1833,85313954241421953667400Disinfectant572111	Anionic/nonionic	2,040	1,239	177	610	1,972	47	7	10	383	405	457	72	2	0
Ethanol453726450002194000Glycol2,1751,5841514292,102504172535523635310Isopropanol1,8811,1841605211,766907153344753875020Other/unknown1,3767681254601,2933410332542873355940Wheel cleaner: HF/bifluoride110187851091007510442700Category total212,660121,84118,20571,105202,4546,4401,6221,78435,05241,18449,4258,27035532Industrial cleanersAcid2,8649972041,6382,74782112071350565620180Alkali4,0731,3455132,1833,85313954221,8061,340557300Alkali4,0731,3455132,1833,85313954241,8061,340557300Cationic1,3747321464891,2954816143252343666301Disinfectant57211197 <t< td=""><td>Cationic</td><td>1,933</td><td>1,254</td><td>146</td><td>524</td><td>1,835</td><td>73</td><td>8</td><td>12</td><td>341</td><td>457</td><td>398</td><td>69</td><td>5</td><td>0</td></t<>	Cationic	1,933	1,254	146	524	1,835	73	8	12	341	457	398	69	5	0
Glycol       2,175       1,584       151       429       2,102       50       4       17       253       552       363       53       1       0         Isopropanol       1,881       1,184       160       521       1,766       90       7       15       334       475       387       50       2       0         Other/unknown       1,376       768       125       460       1,293       34       10       33       254       287       335       59       4       0         Wheel cleaner: HF/bifluoride       110       18       7       85       109       1       0       0       75       10       44       27       0       0         Category total       212,660       121,841       18,205       71,105       202,454       6,440       1,622       1,784       35,052       41,184       49,425       8,270       355       32         Industrial cleaners	Ethanol	45	37	2	6	45	0	0	0	2	19	4	0	0	0
Inspire       1,881       1,184       160       521       1,766       90       7       15       334       475       387       50       2       0         Other/unknown       1,376       768       125       460       1,293       34       10       33       254       287       335       59       4       0         Wheel cleaner:       HF/bifluoride       110       18       7       85       109       1       0       0       75       10       44       27       0       0         Category total       212,660       121,841       18,205       71,105       202,454       6,440       1,622       1,784       35,052       41,184       49,425       8,270       355       32         Industrial cleaners	Glycol	2,175	1,584	151	429	2,102	50	4	1/	253	552	363	53	1	0
Wheel cleaner: HF/bifluoride       110       18       7       85       109       1       0       0       75       10       44       27       0       0         Category total       212,660       121,841       18,205       71,105       202,454       6,440       1,622       1,784       35,052       41,184       49,425       8,270       355       32         Industrial cleaners       Image: Contract of the product	Other/unknown	1,001	768	100	521 460	1,700	90 34	10	33	334 254	475	335	50	2	0
Category total       212,660       121,841       18,205       71,105       202,454       6,440       1,622       1,784       35,052       41,184       49,425       8,270       355       32         industrial cleaners         Acid       2,864       997       204       1,638       2,747       82       11       20       713       505       656       201       8       0         Alkali       4,073       1,345       513       2,183       3,853       139       54       22       1,806       560       1,340       557       30       0         Anionic/noninic       1,374       732       146       489       1,295       48       16       14       325       234       366       63       0       1         Cationic       1,195       469       184       531       1,104       70       15       4       412       195       366       74       0       0         Disinfectant       572       111       97       359       505       42       22       3       265       81       199       50       0       0         Other/unknown       2,840       1,335	Wheel cleaner: HE/bifluoride	1,370	18	7	400	1,233	1	0	0	75	10	44	27	4	0
Industrial cleaners       Acid       2,864       997       204       1,638       2,747       82       11       20       713       505       656       201       8       0         Alkali       4,073       1,345       513       2,183       3,853       139       54       22       1,806       560       1,340       557       30       0         Anionic/noninic       1,374       732       146       489       1,295       48       16       14       325       234       366       63       0       1         Cationic       1,195       469       184       531       1,104       70       15       4       412       195       366       74       0       0         Disinfectant       572       111       97       359       505       42       22       3       265       81       199       50       0       0         Other/unknown       2,840       1,335       309       1,173       2,664       88       59       24       887       483       867       217       11       0	Category total	212.660	121.841	18.205	71.105	202.454	6.440	1.622	1.784	35.052	41.184	49.425	8.270	355	32
Acid2,8649972041,6382,74782112071350565620180Alkali4,0731,3455132,1833,85313954221,8065601,340557300Anionic/nonionic1,3747321464891,2954816143252343666301Cationic1,1954691845311,104701544121953667400Disinfectant5721119735950542223265811995000Other/unknown2,8401,3353091,1732,664885924887483867217110		_,	.,	.,_00	.,	,	.,	,	,		.,	.,	.,		
Acid2,8649972041,6382,74782112071350565620180Alkali4,0731,3455132,1833,85313954221,8065601,340557300Anionic/nonionic1,3747321464891,2954816143252343666301Cationic1,1954691845311,104701544121953667400Disinfectant5721119735950542223265811995000Other/unknown2,8401,3353091,1732,664885924887483867217110	Industrial cleaners												<i></i>	_	~
Anionic/nonionic4,0731,3455132,1833,8531.3954221,8065601,340557300Anionic/nonionic1,3747321464891,2954816143252343666301Cationic1,1954691845311,104701544121953667400Disinfectant5721119735950542223265811995000Other/unknown2,8401,3353091,1732,664885924887483867217110	ACIO	2,864	997	204	1,638	2,747	82	11 54	20	713	505	656	201	8	U
Cationic       1,074       1,02       140       403       1,250       40       10       14       323       234       300       63       0       1         Cationic       1,195       469       184       531       1,104       70       15       4       412       195       366       74       0       0         Disinfectant       572       111       97       359       505       42       22       3       265       81       199       50       0       0         Other/unknown       2,840       1,335       309       1,173       2,664       88       59       24       887       483       867       217       11       0		4,073	1,345 720	513 1/6	2,103 120	3,803 1 205	139	04 16	22 14	1,800 205	224	1,340	63 100	3U 0	1
Disinfectant         572         111         97         359         505         42         22         3         265         81         199         50         0         0           Other/unknown         2,840         1,335         309         1,173         2,664         88         59         24         887         483         867         217         11         0	Cationic	1,374	1 32 169	184 184	409 531	1 104	40 70	15	14 4	323 412	∠04 195	366	03 74	0	0
Other/unknown         2,840         1,335         309         1,173         2,664         88         59         24         887         483         867         217         11         0	Disinfectant	572	111	97	359	505	42	22	3	265	81	199	50	0	0
	Other/unknown	2,840	1,335	309	1,173	2,664	88	59	24	887	483	867	217	11	0

TABLE 22A.	Demographic Profile of Ex	posure Cases by G	Generic Category o	of Substances and Pro	oducts: Nonph	harmaceuticals (Co	ontinued)
							/

		Age			Rea	son		Treated in Health		(	Outcome			
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Category total	12,918	4,989	1,453	6,373	12,168	469	177	87	4,408	2,058	3,794	1,162	49	1
Cosmetics/personal care products														
Baby oil	2,735	2,552	49	127	2,702	18	6	9	177	745	212	15	1	0
Bath oil/bubble bath	6,751	6,280	270	185	6,672	48	6	23	199	1,387	640	22	0	0
Cream/lotion/make-up	22,526	18,891	1,065	2,510	21,881	249	58	327	867	3,662	1,462	129	10	0
Dental care products														
Denture cleaner	1.539	236	65	1.227	1.494	32	7	4	96	314	145	13	1	1
Toothpaste with fluoride	24 087	21 965	954	1 129	23 462	284	47	287	411	4 852	1 218	40	1	1
Toothpaste without fluoride	1 686	1 401	95	187	1 614	15	8	48	41	329	99	4	0	0
Other	2 267	1 043	358	855	1 902	.32	4	327	175	317	341	25	2	0
Deodorant	11 /03	0,608	620	1 065	10 607	117	30	552	330	1 636	1 000	54	3	0
Depilaton	2 217	5,030	224	1,000	1 502	95	10	619	404	1,000	675	220	0	0
Deusha	2,217	102	504	1,202	115	200	21	010	434	132	7	223	0	0
Douche Eve preduct	124	1 1 1 0 6	60	14	1 051	10	2	4	01	200	100	10	0	0
Eye product	1,380	1,120	63	180	1,351	10	1	17	81	208	123	18	U	U
Hair care products													_	
Coloring agent	2,276	950	239	1,064	1,971	30	4	269	419	360	534	110	5	0
Curl activator	41	30	3	8	40	1	0	0	7	11	4	1	0	0
Oil	238	198	15	24	230	4	3	1	33	58	37	6	0	0
Permanent wave solution	455	200	27	226	396	6	1	49	146	68	107	51	2	0
Relaxer: sodium hydroxide	775	574	38	159	747	7	2	18	360	182	240	84	3	0
Relaxer: other alkaline	857	639	47	167	828	4	1	23	356	205	311	77	2	0
Relaxer: other non-alkaline	58	46	1	11	58	0	0	0	15	11	20	2	0	0
Rinse/conditioner/relaxer	2.448	1.970	181	291	2.345	76	6	19	238	554	284	42	1	0
Shampoo	7.476	5,883	634	934	7,109	285	22	53	485	1.273	1.241	79	3	0
Sprav	2,360	1 499	367	488	2 026	304	12	9	391	524	456	60	6	0
Other	2,000	1 9/17	251	509	2 587	55	10	65	363	554	469	79	7	0
Linstick/balm: with campbor	082	001	51	28	2,007	8	0	2	28	167	70	10	,	0
Lipstick/balm. with camphon	90Z	2 901	161	101	312	20	1	2	20	107	100	2	1	0
Lipstick/baim: without campnor	4,075	3,804	101	101	4,018	30	1	23	00	473	138	9	1	U
Mouthwash														
Ethanol	16,204	4,058	2,917	9,137	14,763	1,329	51	31	1,318	2,798	1,242	295	35	0
Non-ethanol	730	356	123	247	669	51	1	7	66	180	63	5	0	0
Fluoride	2,557	1,791	575	185	2,520	28	0	6	60	532	93	2	0	0
Unknown	152	30	42	78	131	18	0	3	24	18	29	4	0	0
Nail products														
Acrylic nail adhesive	1,417	527	503	373	1,392	18	6	1	455	167	396	102	1	0
Acrylic nail primer	210	159	7	43	205	2	0	3	94	33	84	19	0	0
Acrylic nail remover	41	28	6	7	41	0	0	0	6	8	14	1	0	0
Polish	11.251	10,152	597	474	11.135	83	16	15	613	2,185	1.534	70	1	0
Polish remover: acetone	3 704	2 815	328	550	3 596	79	13	13	346	1 140	621	39	1	0
Polish remover: other	2 373	1 830	228	308	2 290	58	14	10	225	728	413	14	0	0
Polish remover: unknown	7 764	5 622	865	1 253	7 / 80	215	12	10	77/	1 865	1 252	73	6	0
Other	0.005	1 050	000	670	0.050	15	42	10	F60	1,000	1,232	105	0	0
Other Darf was (as la was (after the sus	2,295	17.014	201	1 0 / 0	2,250	15	100	20	1 000	450	0.005	125	10	1
Penume/cologne/artersnave	20,424	17,014	1,522	1,244	19,801	458	109	38	1,202	5,278	3,685	138	10	1
Peroxide	16,604	7,100	1,543	7,850	15,890	363	79	255	1,205	2,569	2,686	226	11	0
Powder: talc	3,518	3,101	188	219	3,445	45	13	13	306	715	754	58	0	0
Powder: without talc	2,773	2,618	71	82	2,749	18	2	4	97	500	487	23	0	0
Soap	16,652	12,706	1,273	2,620	15,841	324	108	370	827	2,626	2,161	119	2	0
Suntan/sunscreen	9,730	8,551	676	479	9,517	30	8	171	357	1,293	1,884	57	1	0
Category total	219,877	162,946	17,609	38,584	210,443	4,837	708	3,723	14,384	41,203	27,889	2,522	119	3
Deodorizers														
Air fresheners														
Aerosol	2,710	1,934	461	310	2,497	181	20	9	306	491	717	61	2	0
Liquid	4,124	2,291	561	1,196	3,970	84	25	17	594	998	699	41	4	0
Solid	5,247	4,688	175	369	5,206	22	16	2	248	1,062	712	30	1	0
Other/unknown	2,944	2,339	308	291	2,867	57	8	9	252	585	716	32	3	0
Diaper pail deodorizer	63	57	0	6	62	1	0	0	5	17	5	0	0	0
Toilet bowl deodorizer	981	901	31	46	973	4	4	0	91	325	76	4	0	0
Other	4 962	3 669	380	881	4 800	109	21	26	614	1 1 3 5	831	82	5	0
	100	61	17	2001	4,000 07	100	6	20	10	1,100	10	2	0	0
	01 101	15 040	1 0 4 0	0 101	00 400	4	100	3	0 100	20	0 775	2	15	0
Calegory Iolai	21,131	15,940	1,942	ა,121	20,402	402	100	00	2,123	4,039	3,115	202	15	U
Dves														
Fabric	588	<b>∆</b> २२	79	84	577	3	1	6	12	130	36	2	Ω	Ω
Food	1 260	1 0/0	167	10	1 000	0 07	1	10	-12 07	102	50	1	1	0
i oou	1,209	1,048	10/	48	1,220	21	4	٥١ د	21	193	54	1	-	0
Leather	149	118	16	15	143	5	0	1	6	38		U	0	U
Other	619	308	192	112	576	19	3	21	78	131	52	11	10	0
Unknown	74	45	9	19	64	1	0	8	11	13	9	2	1	0
Category total	2,699	1,951	456	278	2,580	55	8	54	164	514	160	17	12	0

TABLE 22A.	Demographic Profile	of Exposure Cases	bv Generic	Category of	Substances and	Products: Nor	pharmaceuticals (	(Continued)

No. of Douboin         No. of Teaching         No. of Douboin         No. of		Age					Rea	son		Treated in Health		(	Outcome		
Alternation         Second and a second alternation of the secon		No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Convention         SEE         AII         SEE         AII         SEE         SEE         PO         PO        PO         PO         PO	Essential oils														
Chrammonal         191         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691         691	Clove oil	592	413	46	129	569	10	3	9	73	138	134	8	0	0
Exace protect         Bit         <	Cinnamon oil	519	359	89	68	472	32	2	13	51	31	257	5	0	0
Pennyropial         25         3         3         18         14         11         0         0         4         2         3         0         0         0           Chatropic         Catago (1)         Catago (2)         Catago (2) <t< td=""><td>Eucalyptus oil</td><td>393</td><td>252</td><td>29</td><td>105</td><td>367</td><td>15</td><td>1</td><td>9</td><td>81</td><td>139</td><td>80</td><td>11</td><td>2</td><td>0</td></t<>	Eucalyptus oil	393	252	29	105	367	15	1	9	81	139	80	11	2	0
Test proi         271         138         22         200         228         4         0         0         1         680         1           Cattegyr Utal         7,242         5,416         5,441         1,243         6,839         1,84         1,22         1,18         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         1,08         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Pennyroyal oil	25	3	3	18	14	11	0	0	4	2	3	0	0	0
Other         5.442         5.421         5.53         5.53         1.56         1.56         7.0         3.5         1.55           Category Idea         Category Idea <td>Tea tree oil</td> <td>271</td> <td>158</td> <td>22</td> <td>90</td> <td>258</td> <td>4</td> <td>0</td> <td>9</td> <td>41</td> <td>68</td> <td>48</td> <td>9</td> <td>0</td> <td>0</td>	Tea tree oil	271	158	22	90	258	4	0	9	41	68	48	9	0	0
Category total         7.242         6,46         6.44         7.244         6,466         7.44         7.837         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.83         7.93         7.83         7.93         7.83         7.93         7.83         7.93         7.83         7.93         7.83         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93         7.93 <td>Other/unknown</td> <td>5,442</td> <td>4,231</td> <td>355</td> <td>824</td> <td>5,256</td> <td>92</td> <td>16</td> <td>75</td> <td>538</td> <td>1,353</td> <td>1,095</td> <td>73</td> <td>3</td> <td>1</td>	Other/unknown	5,442	4,231	355	824	5,256	92	16	75	538	1,353	1,095	73	3	1
Further         Further         Unit         State         2         2         4         15         6.52         1.54         12         0         0           Dutchor femilier         4.654         30.71         438         10.12         4.481         12         13         13         20         0         0           Dither         1.889         3.07         7         48         1.02         1.05         1.0         1.5         2.47         33         1.03         2.00         0         0           Category total         1.083         3.02         1.08         2.03         1.01         1.11         3.78         6.98         6.95         1.77         1.127         2.82         6.8         0           Category total         0.058         4.48         1.018         2.58         1.05         5         2         1.02         1.018         3.02         1.01         1.028         1.02         1.028         1.01         1.018         3.02         1.01         1.018         3.02         1.01         1.018         3.02         1.01         1.018         3.02         1.01         1.018         3.02         1.01         1.01         1.018         3.01	Category total	7,242	5,416	544	1,234	6,936	164	22	115	788	1,731	1,617	106	5	1
Househol plant food 1 3.638 2,167 482 023 3.482 22 22 4 1 035 652 164 12 0 0 0 Plant formone 96 37 7 44 4.81 10 21 25 219 891 247 33 1 0 Other 1.88 1.88 10.83 0.513 20 51 115 15 15 10 15 247 530 133 20 0 0 Unknown 397 37 61 143 665 3 2 5 45 44 33 6 0 1 1 Trice attinguishes 3,965 3.24 1.193 2.322 3.668 107 204 38 698 656 1.125 167 2.682 65 1 Plant formone 75 751 2058 12.08 12.047 61 55 3 65 19 685 1.125 187 2.88 68 0 0 0 Protein contact. To the second sec	Fertilizers														
Outsocrimalizar         4,554         30/1         448         10/12         4.481         10         21         25         219         891         257         33         1         0           Other         1,568         200         515         1,815         10         15         247         330         133         200         0         0           Category total         10,552         6,735         1,138         2,523         1,668         107         240         38         898         666         1,127         107         2,02         0         0         0         1         1,127         107         2,022         0         1,131         3,718         6,693         5,777         1,217         2,022         0         3         70         179         75         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Household plant food</td> <td>3,533</td> <td>2,167</td> <td>432</td> <td>923</td> <td>3,482</td> <td>22</td> <td>22</td> <td>4</td> <td>135</td> <td>652</td> <td>154</td> <td>12</td> <td>0</td> <td>0</td>	Household plant food	3,533	2,167	432	923	3,482	22	22	4	135	652	154	12	0	0
Plant Income         90         37         7         40         84         2         0         4         19         11         2         0         0           Unknown         597         377         61         143         586         3         2         5         45         94         39         6         0         1         1           Regroy total         10,626         6.73         1         11         55         55         56         665         1.56         57         16         2         1         1         1         7         2         1         1         1         7         2         1         1         1         7         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Outdoor fertilizer	4,554	3,071	438	1,012	4,481	19	21	25	219	891	267	33	1	0
Other         1.888         1.083         2.08         515         1.815         1.51         1.0         15         2.47         3.30         1.33         2.00         0         0           Category Isal         10.652         6.73         1.138         2.352         3.568         107         201         38         688         6.965         1.75         1.87         2.2         0           Cord product/stood poleoning         7.511         2.0.67         1.2.68         2.2.49         7.00         7.40         1.131         3.718         6.588         5.777         12.187         2.8         8         0         0           Charcoal         5.53         5.53         5         19         6.88         4.2         8         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0        <	Plant hormone	90	37	7	46	84	2	0	4	19	19	11	2	0	0
Unknown         587         377         61         143         885         3         2         5         45         894         39         6         0         1           Galegory Ital         10.682         6.73         1138         2.632         3.588         10.7         204         38         698         656         1.125         187         2         0           Free actinguishers         3.385         3.24         1.133         2.352         3.588         107         2.04         38         698         656         1.125         187         2.882         85         0         0           Forigh bodies/toy/miscetanceut         3.44         1.48         5.41         1.55         3         5         19         684         2.882         6.87         0         0         0           Charcod         0.5164         4.4827         2.88         85         5.41         1.58         5.77         1.106         3.282         4.38         0.0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<	Other	1,858	1,083	200	515	1,815	15	10	15	247	330	133	20	0	0
Category Istail 10,682 6,735 1,138 2,639 10,47 61 65 63 666 1,096 604 73 1 1 Fire extinguishers 3,955 324 1,138 2,352 3,568 107 204 38 808 6,666 1,125 197 2,682 Foreign bodies/toy/infacellaneous Ach 523 451 14 56 510 5 3 5 19 68 42 8 0 0 0 Energin bodies/toy/infacellaneous Christmas mannent 1,027 7,42 238 80 5,141 13 6 2,8 42 98 3,7 8 6 9 Energin bodies/toy/infacellaneous Energin bodies/toy/infacellaneous Energin bodies/toy/infacellaneous Basic 456 38 67 555 19 2 8 42 98 3,7 0 179 7,5 0 0 Christmas mannent 1,027 7,42 83 199 1,022 2 0 3,7 0 179 7,7 5 0 0 Christmas mannent 1,027 7,42 83 199 1,022 2 0 3,7 0 1,016 332 47 3 0 0 Christmas mannent 4,280 40,124 2,431 7,325 4,3347 2,24 83 99 1,177 5,210 2,75 14 0 0 Executine 6,488 5,291 3,41 728 6,202 45 144 8 168 7,78 141 1 0 0 Executine 6,488 5,291 3,41 728 6,202 45 144 8 168 7,78 3,21 19 2,5 0 0 Glow product 7,315 3,524 3,459 2,77 1,71 38 7 2 413 908 1,698 44 1 0 0 Glow product 7,315 3,524 3,459 2,77 1,71 38 7 2 413 908 1,698 44 1 0 0 Sal Demonseties Demonseties Macroy 1,4939 6,398 3,437 4,709 14,294 7,316 5 904 2,477 141 16 0 0 Chremotapounk 319 2,41 2,22 1,44 12 802 9,2 0 0 0 Sal Manneaties Macroy 1,4939 6,398 3,437 4,709 17 18 5 904 2,477 141 16 0 Chremotapounk 190 7,75 5,327 8,164 79 1,71 4 400 1,005 994 2,00 1 0 0 0 0 0 Toy Macroy 1,4939 5,582 2,449 5,57 8,144 79 1,71 4 400 1,005 994 2,07 14 0 0 Chremotapounk 190 17,97 13,125 117,249 1,003 70 91 105 47 4 1 0 0 Chremotapounk 190 19,203 2,289 1,182 51 10 0 0 0 0 0 0 0 0 Toy Macroy 1,4939 5,582 2,449 5,57 8,144 79 1,71 4 400 1,005 994 2,00 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Unknown	597	377	61	143	585	3	2	5	45	94	39	6	0	1
Fire extinguishes         3.9.65         3.2.4         1.1.80         2.9.28         3.6.86         10.7         10.13         3.7.16         5.9.80         6.7.7         12.107         2.9.80         8.0         9.0           Food products/food poisoning         75.81         20.87         12.08         42.94         70.0         70.1         13.7.16         5.905         5.777         12.07         2.08         40         0         0           Chronicol         52.3         4.51         1.4         5.65         19         2         8         4.26         6.0         0         0           Contronal         3.865         2.966         5.87         99         3.500         61         7         0         1.016         5.82         4.7         3         0         0           Contronal         3.665         2.966         5.87         99         3.500         61         7         0         1.016         5.27         14         0         0           Contronal         5.291         3.41         72         1.324         1.48         14         10         0         0         0         0         0         0         0         0         0	Category total	10,632	6,735	1,138	2,639	10,447	61	55	53	665	1,986	604	73	1	1
Food productarMood poisoning         75,13         20,87         12,038         42,249         70,035         740         1,131         3,718         5,873         5,777         12,187         2,882         85           Chrigen bodies/tog/misediamous         543         451         14         66         50         5         3         5         19         662         1,115         30         0         0           Charcoal         686         465         68         7         555         19         2         8         42         96         622         1,115         30         0         0           Charcoal         686         456         587         99         3,500         61         7         0         1,106         1,116         5,116         527         14         0         0           Descurinte         4,306         2,308         133         2,214         31         101         13         2,413         108         143         102         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Fire extinguishers	3,955	324	1,193	2,352	3,568	107	204	38	898	656	1,125	187	2	0
DecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisionDecisi	Food products/food poisoning	75,813	20,587	12,036	42,249	70,035	740	1,131	3,718	5,963	5,777	12,187	2,682	85	0
Aan         bod         bod         b         b         b         b         b         b         d         b         d         b         d         b         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d         d </td <td>Foreign bodies/toys/miscellaneou</td> <td>s</td> <td></td> <td></td> <td>50</td> <td>510</td> <td>_</td> <td></td> <td>-</td> <td>10</td> <td></td> <td>10</td> <td></td> <td></td> <td></td>	Foreign bodies/toys/miscellaneou	s			50	510	_		-	10		10			
bubble blowing solution         5,144         4,827         2,38         88         5,141         15         6         2         199         6.62         1,115         30         0         0         0           Christmas onnament         1,027         743         88         199         1,022         2         0         3         70         179         77         5         0         0           Desiccant         44,290         40,124         2,443         1,382         43,947         224         93         9         1,716         5,210         275         14         0         0           Glass         2,339         816         305         1,194         2,194         31         101         8         97         353         141         1         0         0         0         141         15         0         0         0         0         0         0         141         15         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td>Ash</td><td>523</td><td>451</td><td>14</td><td>56</td><td>510</td><td>5</td><td>3</td><td>5</td><td>19</td><td>68</td><td>42</td><td>8</td><td>0</td><td>0</td></td<>	Ash	523	451	14	56	510	5	3	5	19	68	42	8	0	0
Draterocal         bbs         496         38         87         bbs         19         2         8         70         179         77         75         0         0           Coin         3.866         2.966         587         99         3.590         61         7         0         1,176         5.210         275         14         0         0           Desiccant         6.408         5.291         3.41         722         91         177         5.210         275         146         0         0           Glow product         7.315         3.524         3.488         287         7,167         138         7         2         14         126         29         2         0         0           Glow product         7.315         3.524         3.488         287         7,167         138         7         2         11         7         8         91         353         141         15         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>Bubble blowing solution</td> <td>5,164</td> <td>4,827</td> <td>238</td> <td>88</td> <td>5,141</td> <td>15</td> <td>6</td> <td>2</td> <td>159</td> <td>662</td> <td>1,115</td> <td>30</td> <td>0</td> <td>0</td>	Bubble blowing solution	5,164	4,827	238	88	5,141	15	6	2	159	662	1,115	30	0	0
Christmas ornament         1,027         7/43         83         199         1,022         2         0         3         7/0         1,06         1,016         352         47         0         0           Desiccant         44,290         40,124         2,543         1,382         43,947         224         93         9         1,105         5,210         27.1         1,4         0         0           Glass         2,339         816         305         1,114         2164         31         101         8         126         28         14         10         0         0         0         106         106         106         106         106         106         106         106         107         13         17         7         8         91         353         141         15         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td>Charcoal</td><td>585</td><td>456</td><td>36</td><td>87</td><td>555</td><td>19</td><td>2</td><td>8</td><td>42</td><td>96</td><td>37</td><td>8</td><td>6</td><td>9</td></td<>	Charcoal	585	456	36	87	555	19	2	8	42	96	37	8	6	9
Com         3,680         2,965         987         99         3,690         0         7         0         1,105         1,101         3,52         4,7         3         0         0           FeaceAurine         6,408         6,291         341         728         6,202         45         144         8         78         231         88         218         189         25         0         0           Glow product         7,315         3,524         3,458         287         7,167         138         7         2         4         12         22         2         0         0           Soil         2,770         2,388         143         228         2,742         11         7         8         91         353         141         15         0         0         0           Thermometers         -         -         136         6,383         3,637         4,700         14,896         71         16         5         94         2,477         141         16         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Christmas ornament	1,027	743	83	199	1,022	2	0	3	70	1/9	11	5	0	0
LesicCant         44,290         40,124         2,294         1,89         43,947         2,24         93         9         1,175         5,210         2,17         1,175         5,210         2,17         1,175         5,210         2,17         1,175         5,210         2,17         1,175         5,21         1,181         1,175         5,210         2,17         1,175         5,21         1,181         1,175         5,210         2,70         1,38         1,173         5,211         1,21         2,21         2,414         18         916         1,41         15         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Coin	3,665	2,965	587	99	3,590	61	/	0	1,106	1,016	352	47	3	0
Pacesay Drine         6,408         5,291         341         120         6,202         435         144         6         1365         1365         1365         143         1         0           Glow product         7,315         3,524         3,458         287         7,167         138         7         2         1         4         12         62         29         2         0         0           Soil         2,770         2,388         143         228         2,742         1         7         8         91         353         141         15         0         0           Thermometers	Desiccant	44,290	40,124	2,543	1,382	43,947	224	93	9	1,175	5,210	2/5	14	1	0
Dates         2.5.39         6.10         3.00         1.94         2.194         31         101         6         2.76         5.21         1.685         4.4         1         0         0           linenes, punk         3.19         2.84         1.2         2.1         31         2         1         4         12         6.2         29         2         0         0           Solid         2.770         2.388         1.43         228         2.774         11         7         8         91         33.3         10         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Clean	0,400	0,291	341	1 1 0 4	0,202	40	144	0	100	795	100	14	1	0
Datus punk         3,13         3,24         3,43         2,49         7,10         132         2         1         4         12         66         29         2         0         0           Soil         2,770         2,288         1.32         22         1         4         12         66         2.99         0         0           Soil         2,770         2,288         1.33         228         2,742         11         7         8         91         363         1.41         16         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Glass Class product	2,009	2 5 0 4	2 459	1,194	2,194	100	101	0	210	321	1 659	25	1	0
Inclusion         513         2         2         1         2         1         7         8         12         2         1         7         8         12         2         1         7         8         91         353         141         15         0         0           Thermometers		7,315	3,524	3,400	207	7,107	130	1	2	413	900	1,000	44	0	0
Low         Low <thlow< th=""> <thlow< th=""> <thlow< th=""></thlow<></thlow<></thlow<>	Soil	2 770	204	1/3	21	27/2	∠ 11	7	4 8	01	353	29	15	0	0
Marcury         14,993         6,388         3,637         4,700         14,896         71         16         5         904         2,477         141         16         0         0           Other         1,937         775         537         585         1,911         12         0         0         9         11         2         0         0         0         9         11         2         0         0         0         9         11         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Thermometers</td> <td>2,770</td> <td>2,000</td> <td>140</td> <td>220</td> <td>2,142</td> <td></td> <td>'</td> <td>0</td> <td>51</td> <td>000</td> <td>141</td> <td>15</td> <td>0</td> <td>0</td>	Thermometers	2,770	2,000	140	220	2,142		'	0	51	000	141	15	0	0
Includy         Includy <t< td=""><td>Mercuny</td><td>14 993</td><td>6 388</td><td>3 637</td><td>4 700</td><td>14 896</td><td>71</td><td>16</td><td>5</td><td>904</td><td>2 477</td><td>141</td><td>16</td><td>0</td><td>0</td></t<>	Mercuny	14 993	6 388	3 637	4 700	14 896	71	16	5	904	2 477	141	16	0	0
Unknown         192         81         46         64         192         0         0         9         11         2         0         0         0           Toy         8,295         5,562         2,449         257         8,184         79         17         14         420         1,005         994         20         1         0           Other         19,010         12,499         283         61,337         174         14         0           Cateon         491         316         82         88         459         7         20         5         45         76         47         6         0         0           Caton dioxide         636         50         227         337         580         39         6         9         119         91         105         47         4         1           Choramine         2,993         119         291         105         477         4         1           Choramine         2,993         119         258         2,579         2,902         75         1         1         1         84         312         132         0         0           Chorine other </td <td>Other</td> <td>1 937</td> <td>775</td> <td>537</td> <td>585</td> <td>1 911</td> <td>12</td> <td>10</td> <td>3</td> <td>70</td> <td>370</td> <td>80</td> <td>0</td> <td>0</td> <td>0</td>	Other	1 937	775	537	585	1 911	12	10	3	70	370	80	0	0	0
Toy         8,295         5,562         2,449         257         8,184         79         17         14         420         1,005         994         20         1         0           Other         19,010         12,499         3,286         3,662         18,225         315         213         223         1,730         2,836         1,337         174         14         0           Category total         119,323         87,490         17,797         13,125         117,249         1,037         647         316         6,699         16,445         6,702         428         26         9           Fune         Carbon monoxide         15,904         2,125         2,530         10,889         15,403         403         17         36         5,493         2,239         4,898         1,367         184         31           Chiormanica         2,993         119         258         2,657         2,902         75         1         15         698         144         1,020         406         12         1           Chiormanica         2,993         1,111         4,782         6,464         141         7         70         2,020         13         8	Unknown	192	81	46	64	192	0	0	0	9	11	2	0	0	0
Other         10,010         12,499         3,286         3,062         18,225         315         213         232         1,730         2,886         1,337         174         14         0           Linknown         491         316         82         88         459         7         20         5         45         76         47         6         0         0           Category total         119,323         87,490         1,779         13,15         117,249         1,037         647         316         6,699         16,445         6,702         42.8         26         9           Funes/gases/vapors         E         Carbon cloxide         636         50         227         337         580         39         6         9         119         91         105         47         4         1           Carbon monoxide         15,904         2,125         2,500         10         11         11         188         844         312         132         0         0           Chlorine: side mixed with hypochlorite         6,661         469         1,311         4,782         6,434         141         7         70         2,020         422         2,633	Toy	8 295	5 562	2 4 4 9	257	8 184	79	17	14	420	1 005	994	20	1	0
Uhknown         491         316         82         88         459         7         20         5         45         76         47         6         0         0           Category total         119,323         87,490         17,797         13,125         117,249         1,037         647         316         6,699         16,445         6,702         428         26         9           Fumes/gases/vapors         E         E         E         E         E         E         E         E           Carbon dioxide         15,904         2,125         2,530         10,899         15,403         403         17         36         5,493         2,239         4,589         1,84         31           Chloramine         2,993         119         258         2,579         2,902         75         1         15         698         144         1,020         406         12         1           Chloramine         2,993         119         154         1644         1410         1<0	Other	19.010	12,499	3.286	3.062	18.225	315	213	232	1.730	2.836	1.337	174	14	0
Category total         119,223         87,490         17,797         13,125         117,249         1,037         647         316         6,699         16,445         6,702         428         26         9           Fumes/gases/vapors         Carbon dioxide         636         50         227         337         580         39         6         9         119         91         105         47         4         1           Carbon monoxide         15,904         2,125         2,530         10,898         15,403         403         17         36         5,493         2,239         4,589         1,367         184         31           Chloramine         2,993         119         258         2,579         2,902         75         1         1         1.88         34         312         132         0         0           Chlorine: acid mixed with hydroogen suffide         1,418         149         159         1,664         1,410         1         0         5         398         133         462         113         2         0         0           Polyner fume fever         10         0         2         8         100         0         0         1         1 <td>Unknown</td> <td>491</td> <td>316</td> <td>82</td> <td>88</td> <td>459</td> <td>7</td> <td>20</td> <td>5</td> <td>45</td> <td>76</td> <td>47</td> <td>6</td> <td>0</td> <td>0</td>	Unknown	491	316	82	88	459	7	20	5	45	76	47	6	0	0
Fumes/gases/vapors           Carbon dioxide         636         50         227         337         580         39         6         9         119         91         105         47         4         1           Carbon monoxide         15,904         2,125         2,500         10,899         15,403         17         36         5,433         2,239         4,589         1,367         184         31           Chlorine: acid mixed with hypochlorite         6,661         449         1,311         4,782         6,434         141         7         70         2,020         25         398         133         462         113         25         6           Chlorine: cide mixed with hypochlorite         6,661         449         1,410         1         0         5         398         133         462         113         25         6           Methane and natural gas         5,469         847         1,469         3,053         5,405         40         13         8         944         972         1,715         211         11         10           Polymer fume fiver         10         0         2         8         10         0         0         14	Category total	119,323	87,490	17,797	13,125	117,249	1,037	647	316	6,699	16,445	6,702	428	26	9
Carbon dioxide         636         50         227         337         580         39         6         9         119         91         105         47         4         1           Carbon monoxide         15,904         2,129         2,500         10,89         15,403         177         36         5,403         2,209         4,589         1,367         184         31           Chloramine         2,993         119         258         2,579         2,902         75         1         15         698         144         1,020         406         12         1           Chlorine: acid mixed with hypochlorite         6,661         469         1,311         4,782         6,434         141         7         70         2,020         422         2,633         1,026         21         1           Hydrogen sulfide         1,418         149         159         1,064         1,410         1         0         5         398         133         462         113         22         0         0           Polymer fume fever         10         0         2         8         10         0         0         1         1         2         2         0 <td< td=""><td>Fumes/gases/vapors</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Fumes/gases/vapors														
Carbon monoxide         15,904         2,125         2,500         10,889         15,403         403         17         36         5,493         2,293         1,367         184         31           Chloramine         2,993         119         258         2,579         2,902         75         1         15         698         144         1,020         406         12         1           Chlorine: acid mixed with hypochlorite         6,661         4669         1,311         4,782         6,434         141         7         70         2,020         422         2,633         1,026         21         1           Hydrogen sulide         1,418         149         159         1,064         1,411         1         0         5         38         432         3,422         1,312         21         0         0           Polymer fume fever         10         0         2         8         10         0         0         1         1         2         2         0         0           Other         2,126         2,17         2,27         1,573         2,83         8         25         650         413         550         166         10         0 <td>Carbon dioxide</td> <td>636</td> <td>50</td> <td>227</td> <td>337</td> <td>580</td> <td>39</td> <td>6</td> <td>9</td> <td>119</td> <td>91</td> <td>105</td> <td>47</td> <td>4</td> <td>1</td>	Carbon dioxide	636	50	227	337	580	39	6	9	119	91	105	47	4	1
Chloramine       2,993       119       258       2,579       2,902       75       1       15       698       144       1,020       406       12       1         Chlorine: acid mixed with hypochlorite       686       21       64       595       666       17       1       1       188       34       312       132       0       0         Chlorine: other       6,661       469       1,311       4,782       6,434       141       7       70       2,020       422       2,633       1,026       21       1         Hydrogen sulfide       1,418       149       155       1,064       1,410       1       0       5       398       133       462       113       25       6         Polymer fume fever       10       0       2       8       10       0       0       1       1       2       2       0       0         Polymer fume fever       10       0       2       8       10       0       0       1       1       2       2       0       0       3       2         Other       2,458       1411       333       1,52       2,833       165       111	Carbon monoxide	15,904	2,125	2,530	10,889	15,403	403	17	36	5,493	2,239	4,589	1,367	184	31
Chlorine: acid mixed with hypochlorite         686         21         64         595         666         17         1         1         188         34         31         132         0         0           Chlorine: other         6,661         469         1,311         4,782         6,434         141         7         70         2,020         422         2,633         1,026         21         1           Hydrogen sulfide         1,418         149         159         1,064         1,410         1         0         5         398         133         462         113         25         6           Methane and natural gas         5,469         847         1,469         3,053         5,405         40         13         8         944         972         1,715         211         11         0           Polymer fume fever         10         0         2         2,627         197         3         11         963         369         820         254         160         10         0           Cher         2,126         2,17         2,27         1,573         2,059         14         55         8         471         490         743         1,09	Chloramine	2,993	119	258	2,579	2,902	75	1	15	698	144	1,020	406	12	1
hypochlorite686216459566617111883431213200Chlorine: other6,661491,3114,7826,4341417702,0204222,6331,026211Hydrogen sulfide1,4181491591,0641,410105398133462113256Methane and natural gas5,4698471,4693,0535,405401389449721,715211110Polymer fume fever1002810000112200Propane/simple asphyxiant2,8652916251,9022,6271973111963369820254162Uhknown2,4581413831,5922,3691455847149074310932Category total41,2264,4297,25528,37439,85996511118811,9455,30812,9513,83328644Heavy metalsAluminum1,074475944711,03591112120226731910Arsenic (excluding pesticide)1,199183869028712014218611159977791<	Chlorine: acid mixed with														
Chlorine: other       6,661       469       1,311       4,782       6,434       141       7       70       2,020       422       2,633       1,026       21       1         Hydrogen sulfide       1,418       149       159       1,064       1,410       1       0       5       398       133       462       113       25       6         Methane and natural gas       5,469       847       1,469       3,053       5,405       40       13       8       944       972       1,715       21       11       0         Polymer fume fever       10       0       2       8       10       0       0       1       1       2       2       0       0         Propane/simple asphyxiant       2,865       291       625       1,902       2,627       197       3       11       963       369       820       254       16       2         Unknown       2,126       4,12       383       1,592       2,369       14       55       8       471       490       743       109       3       2         Aluminum       1,074       475       94       471       1,035       9       11	hypochlorite	686	21	64	595	666	17	1	1	188	34	312	132	0	0
Hydrogen sulfide       1,418       1,419       1,469       1,469       1,410       1       0       5       398       133       462       113       25       6         Methane and natural gas       5,469       847       1,469       3,053       5,405       40       13       8       944       972       1,715       211       11       0         Polymer fume fever       10       0       2       8       10       0       0       1       1       2       2       0       0         Propane/simple asphyxiant       2,865       291       625       1,902       2,627       197       3       11       963       369       820       254       16       2         Other       2,126       217       227       1,573       2,053       38       8       25       650       413       550       166       10       0         Category total       41,226       4,429       7,255       28,374       39,859       965       111       188       11,945       5,308       12,951       3,833       286       44         Heavy metals        11       1,45       0       14       14	Chlorine: other	6,661	469	1,311	4,782	6,434	141	7	70	2,020	422	2,633	1,026	21	1
Methane and natural gas       5,469       847       1,469       3,053       5,405       40       13       8       944       972       1,715       211       11       0         Polymer fume fever       10       0       2       8       10       0       0       1       1       2       2       0       0         Propane/simple asphyxiant       2,865       291       625       1,902       2,627       197       3       11       963       369       820       254       16       2         Other       2,126       217       227       1,573       2,053       38       8       25       660       413       550       166       10       0         Unknown       2,458       141       383       1,592       2,369       14       55       8       471       490       743       109       3       2         Category total       41,226       4,429       7,255       28,374       39,859       965       111       188       11,945       5,308       12,951       3,833       286       44         Heavy metals       1,199       183       86       902       871       20	Hydrogen sulfide	1,418	149	159	1,064	1,410	1	0	5	398	133	462	113	25	6
Propane/simple asphyxiant       2,865       291       625       1,902       2,627       197       3       11       963       369       820       254       16       2         Other       2,126       217       227       1,573       2,053       38       8       25       650       413       550       166       10       0         Unknown       2,458       141       383       1,592       2,369       14       55       8       471       490       743       109       3       2         Category total       41,226       4,429       7,255       28,374       39,859       965       111       188       11,945       5,308       12,951       3,833       286       44         Heavy metals       4       471       1,035       9       11       12       120       226       73       19       1       0         Arsenic (excluding pesticide)       1,199       183       86       902       871       20       142       18       611       159       97       77       9       1         Barium       6       1       1       4       6       0       0       0	Methane and natural gas	5,469	847	1,469	3,053	5,405	40	13	8	944	972	1,715	211	11	0
Proparle/simple asphyxiant       2,665       291       625       1,573       2,627       197       3       11       963       369       620       254       16       2         Other       2,126       217       227       1,573       2,053       38       8       25       650       413       550       166       10       0         Unknown       2,458       141       383       1,592       2,369       14       55       8       471       490       743       109       3       21         Category total       41,226       4,429       7,255       28,374       39,859       965       111       188       11,945       5,308       12,951       3,833       286       44         Heavy metals       Heavy metals       Heavy metals       11       1       1035       9       11       12       120       226       73       19       1       0         Barium       6       1       1       4       6       0       0       3       2       1       0       2       0         Copper       1,053       211       305       491       990       28       13       15<	Polymer tume tever	10	0	2	8	10	107	0	0	1	1	2	2	10	0
Other       2,126       217       227       1,573       2,053       38       8       25       650       413       550       166       10       0         Unknown       2,458       141       383       1,592       2,369       14       55       8       471       490       743       109       3       2         Category total       41,226       4,429       7,255       28,374       39,859       965       111       188       11,945       5,308       12,951       3,833       286       44         Heavy metals       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #       #<	Propane/simple aspnyxiant	2,865	291	625	1,902	2,627	197	3	11	963	369	820	254	16	2
Onrhown       2,458       141       363       1,592       2,369       14       55       6       471       490       743       109       3       2         Category total       41,226       4,429       7,255       28,374       39,859       965       111       188       11,945       5,308       12,951       3,833       286       44         Heavy metals       Aluminum       1,074       475       94       471       1,035       9       11       12       120       226       73       19       1       0         Arsenic (excluding pesticide)       1,199       183       86       902       871       20       142       18       611       159       97       77       9       1         Barium       6       1       1       4       6       0       0       3       2       1       0       2       0       2       0       2       1       0       2       0       2       0       2       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1	Other	2,126	217	227	1,573	2,053	38	8	25	471	413	550	100	10	0
Heavy metals         Aluminum       1,074       475       94       471       1,035       9       11       12       120       226       73       19       1       0         Arsenic (excluding pesticide)       1,199       183       86       902       871       20       142       18       611       159       97       77       9       1         Barium       6       1       1       4       6       0       0       3       2       1       0       2       0         Cadmium       96       9       2       83       82       0       2       1       49       15       14       10       0       1         Copper       1,053       211       305       491       990       28       13       15       278       147       296       49       3       0         Fireplace flame colors       9       8       0       1       9       0       0       0       9       5       3       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Category total	2,458 41,226	4,429	383 7,255	28,374	2,369	965	55 111	8 188	471 11,945	490 5,308	743 12,951	3,833	3 286	2 44
Aluminum       1,074       475       94       471       1,035       9       11       12       120       226       73       19       1       0         Arsenic (excluding pesticide)       1,199       183       86       902       871       20       142       18       611       159       97       77       9       1         Barium       6       1       1       4       6       0       0       3       2       1       0       2       0         Cadmium       96       9       2       83       82       0       2       1       49       15       14       10       0       1         Copper       1,053       211       305       491       990       28       13       15       278       147       296       49       3       0         Fireplace flame colors       9       8       0       1       9       0       0       0       9       5       3       0       0       0         Gold       14       4       1       9       14       0       0       9       5       3       0       0       0	Heavy metals														
Arsenic (excluding pesticide)       1,199       183       86       902       871       20       142       18       1159       177       9       1         Barium       6       1       1       4       6       0       0       3       2       1       0       2       0         Cadmium       96       9       2       83       82       0       2       1       49       15       14       10       0       1         Copper       1,053       211       305       491       990       28       13       15       278       147       296       49       3       0         Fireplace flame colors       9       8       0       1       9       0       0       0       0       2       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Aluminum	1.074	475	94	471	1.035	9	11	12	120	226	73	19	1	0
Barium       6       1       1       4       6       0       0       0       3       2       1       0       2       0         Cadmium       96       9       2       83       82       0       2       1       49       15       14       10       0       1         Copper       1,053       211       305       491       990       28       13       15       278       147       296       49       3       0         Fireplace flame colors       9       8       0       1       9       0       0       0       0       2       1       0       0       0         Gold       14       4       1       9       14       0       0       0       9       5       3       0       0       0         Gold       14       4       1       9       14       0       0       0       9       5       3       0       0       0         Lead       9,347       6,002       1,564       1,705       9,174       44       40       14       6,708       658       179       87       15       0	Arsenic (excluding pesticide)	1,199	183	86	902	871	20	142	18	611	159	97	77	9	1
Cadmium       96       9       2       83       82       0       2       1       49       15       14       10       0       1         Copper       1,053       211       305       491       990       28       13       15       278       147       296       49       3       0         Fireplace flame colors       9       8       0       1       9       0       0       0       0       2       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Barium	6	1	1	4	6	0	0	0	3	2	1	0	2	0
Copper       1,053       211       305       491       90       28       13       15       278       147       296       49       3       0         Fireplace flame colors       9       8       0       1       9       0       0       0       0       211       305       491       99       28       13       15       278       147       296       49       3       0       0         Gold       14       4       1       9       14       0       0       0       9       5       3       0       0       0       0         Lead       9,347       6,002       1,564       1,705       9,174       44       40       14       6,708       658       179       87       15       0         Manganese       68       6       24       37       55       2       0       6       33       4       12       8       2       0         Mercury: elemental       1,846       265       501       1,039       1,710       63       23       13       438       574       129       36       2       0         Mercury: other/unknown       4	Cadmium	96	9	2	83	82	0	2	- 1	49	15	14	10	0	1
Fireplace flame colors       9       8       0       1       9       0       0       0       0       2       1       0       0       0         Gold       14       4       1       9       14       0       0       0       9       5       3       0       0       0       0         Lead       9,347       6,002       1,564       1,705       9,174       44       40       14       6,708       658       179       87       15       0         Manganese       68       6       24       37       55       2       0       6       33       4       12       8       2       0         Mercury: elemental       1,846       265       501       1,039       1,710       63       23       13       438       574       129       36       2       0         Mercury: other/unknown       432       170       39       220       399       6       4       13       86       90       25       16       2       0         Metal fume fever       884       10       50       820       860       5       1       18       239       14 </td <td>Copper</td> <td>1,053</td> <td>211</td> <td>305</td> <td>491</td> <td>990</td> <td>28</td> <td>13</td> <td>15</td> <td>278</td> <td>147</td> <td>296</td> <td>49</td> <td>3</td> <td>0</td>	Copper	1,053	211	305	491	990	28	13	15	278	147	296	49	3	0
Gold       14       4       1       9       14       0       0       0       9       5       3       0       0       0         Lead       9,347       6,002       1,564       1,705       9,174       44       40       14       6,708       658       179       87       15       0         Manganese       68       6       24       37       55       2       0       6       33       4       12       8       2       0         Mercury: elemental       1,846       265       501       1,039       1,710       63       23       13       438       574       129       36       2       0         Mercury: other/unknown       432       170       39       220       399       6       4       13       86       90       25       16       2       0         Metal fume fever       884       10       50       820       860       5       1       18       239       14       251       110       0       0	Fireplace flame colors	9	8	0	1	9	0	0	0	0	2	1	0	0	0
Lead         9,347         6,002         1,564         1,705         9,174         44         40         14         6,708         658         179         87         15         0           Manganese         68         6         24         37         55         2         0         6         33         4         12         8         2         0           Mercury: elemental         1,846         265         501         1,039         1,710         63         23         13         438         574         129         36         2         0           Mercury: other/unknown         432         170         39         220         399         6         4         13         86         90         25         16         2         0           Metal fume fever         884         10         50         820         860         5         1         18         239         14         251         110         0         0	Gold	14	4	- 1	9	14	0	0	0	9	5	3	0	0	0
Manganese       68       6       24       37       55       2       0       6       33       4       12       8       2       0         Mercury: elemental       1,846       265       501       1,039       1,710       63       23       13       438       574       129       36       2       0         Mercury: other/unknown       432       170       39       220       399       6       4       13       86       90       25       16       2       0         Metal fume fever       884       10       50       820       860       5       1       18       239       14       251       110       0       0	Lead	9,347	6,002	1,564	1,705	9,174	44	40	14	6,708	658	179	87	15	0
Mercury: elemental         1,846         265         501         1,039         1,710         63         23         13         438         574         129         36         2         0           Mercury: other/unknown         432         170         39         220         399         6         4         13         86         90         25         16         2         0           Metal fume fever         884         10         50         820         860         5         1         18         239         14         251         110         0         0	Manganese	68	6	24	37	55	2	0	6	33	4	12	8	2	0
Mercury: other/unknown         432         170         39         220         399         6         4         13         86         90         25         16         2         0           Metal fume fever         884         10         50         820         860         5         1         18         239         14         251         110         0         0	Mercury: elemental	1.846	265	501	1,039	1.710	63	23	13	438	574	129	36	2	0
Metal fume fever 884 10 50 820 860 5 1 18 239 14 251 110 0 0	Mercury: other/unknown	432	170	39	220	399	6	4	13	86	90	25	16	2	0
	Metal fume fever	884	10	50	820	860	5	1	18	239	14	251	110	0	0

TABLE 22A.	Demographic Profile of Exp	posure Cases by Generic	Category of Substances an	d Products: Non	pharmaceuticals (	Continued)

		Age			Rea	son		Treated in Health		(	Outcome			
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Selenium	119	56	7	54	101	10	2	6	21	25	11	1	0	0
Thallium	51	6	2	42	39	1	5	3	37	24	2	5	2	0
Other	1,271	422	184	651	1,171	30	15	42	330	171	155	59	6	1
Unknown	63	14	4	44	50	0	4	2	29	10	7	3	1	0
Category total	17,532	7,842	2,864	6,573	16,566	218	262	163	8,991	2,126	1,256	480	45	3
Hydrocarbons														
Benzene	116	18	18	78	109	6	0	0	65	15	22	14	1	0
Carbon tetrachloride	43	9	2	31	42	0	0	0	13	18	4	1	0	0
Diesel fuel	1,013	187	124	688	962	37	9	3	257	141	315	42	1	0
Fluorochlorocarbon/propellant	7,955	615	1,356	5,759	7,418	435	59	24	1,423	1,757	1,631	391	20	5
Gasoline	20,334	5,340	3,646	11,180	19,063	1,095	110	28	3,176	3,085	7,489	615	26	1
Halogenated hydrocarbon: other	560	138	71	344	526	20	6	7	243	86	171	58	3	0
Kerosene	2,389	1,260	275	835	2,296	57	21	8	728	504	647	191	14	0
Lamp oil	2,856	2,412	105	329	2,814	35	5	2	1,015	920	720	256	19	1
Lighter fluid/naphtha	3,428	1,746	355	1,279	3,179	194	36	14	1,001	769	953	219	14	0
Lubricating oil/motor oil	5,056	3,116	498	1,412	4,866	122	51	6	847	1,556	873	120	5	1
Mineral seal oil	221	1 2 2 2	23	1 601	218	156	20	17	41	600	40	175	10	0
Teluene/wdene	1 642	1,303	190	1 107	3,215 1 / 90	100	30 10	10	924 706	107	940 500	1/5	10	2
	823	270	102	430	705	87	19	7	235	197	199	37	5	2
Other	7 194	3 750	761	2 589	6 897	178	53	53	1 675	1 828	1 479	343	20	1
Unknown	2 070	967	232	849	1 955	65	24	15	576	477	489	117	20	2
Category total	59,132	21,738	8,145	28,556	55,747	2,603	448	196	12,945	12,229	16,502	2,750	165	15
Lacrimators														
Capsicum defense sprav	3.948	779	1.295	1.784	3.284	130	435	37	620	77	1,791	145	1	0
Lacrimator: CN	1,622	294	522	767	1.279	56	229	17	322	58	774	95	2	0
Lacrimator: CS	143	37	51	53	121	5	12	3	36	5	81	9	0	0
Other	149	17	28	103	147	0	0	2	16	9	34	0	0	0
Unknown	95	13	25	55	73	1	20	0	30	1	43	3	0	0
Category total	5,957	1,140	1,921	2,762	4,904	192	696	59	1,024	150	2,723	252	3	0
Matches/fireworks/explosives														
Explosive	265	141	60	61	241	18	4	0	61	48	40	13	2	0
Firework	556	417	87	48	537	13	4	2	59	158	56	11	4	0
Match	1,282	1,207	26	45	1,272	10	0	0	40	272	19	5	0	0
Other	60	23	16	19	57	3	0	0	17	14	11	10	0	0
Unknown	6	5	0	1	6	0	0	0	2	1	1	0	0	0
Category total	2,169	1,793	189	174	2,113	44	8	2	179	493	127	39	6	0
Mushrooms														
Coprine	21	13	0	8	18	2	0	1	8	7	3	4	0	0
Cyclopeptide	56	9	13	34	37	16	0	0	51	10	9	21	3	2
Gastrointestinal irritant	177	65	23	89	145	30	0	2	76	40	61	27	1	0
Hallucinogenic	766	29	438	285	137	612	10	6	543	43	128	341	11	1
Ibotenic acid	31	1	14	16	8	21	1	1	19	2	8	11	3	0
Manamathylhydrazina	200	105	34 15	50	219	10	0	10	41	03	42	10	1	1
Muscarine	8	2	15	50	7	1	0	0	29	24	15	1	1	0
Orellanine	4	0	2	2	2	1	0	1	2	0	4	1	0	0
Other potentially toxic	36	16	2	17	31	2	1	1	20	11	6	10	2	0
Unknown	7.304	4.919	1.113	1.231	6.313	887	11	71	2.498	3.550	881	408	23	1
Category total	8,722	5,160	1,654	1,850	6,977	1,590	23	104	3,294	3,751	1,157	848	45	5
Paints and stripping agents														
Paints														
Anti-algae	40	3	4	32	40	0	0	0	14	10	15	4	1	0
Anti-corrosion	74	11	10	53	68	1	1	4	26	9	17	6	0	0
Oil-base	4,018	1,259	760	1,968	3,723	201	32	56	819	580	1,012	201	10	2
Water-base	6,683	5,071	435	1,156	6,580	31	15	53	456	964	481	57	4	0
Stains	987	439	80	463	958	3	0	24	127	164	207	25	0	0
Stripping agents														
Methylene chloride	1,095	177	116	793	1065	14	3	12	335	77	433	100	3	0
Other	1,020	206	64	744	972	14	1	30	331	100	330	115	1	1
Unknown	275	89	20	163	264	4	2	3	82	32	81	26	0	0
varnisn, lacquer	1,2/1	368	141	/38	1,225	21	2	23	235	151	284	/2 55	1	U
Uner paint/vamisn/iacquer	1,300 7 906	202	125	045 2 2 7 0	1,320	18	ა გ	15	219	299 1 105	26U 000	55 170	1	U 1
Category total	24 797	4,004 13 በ/ዓ	2 457	2,210 9 N33	23 847	101	63 79	280	3 623	3 571	020 3 Q/R	179 840	0 20	1 1
	L-7,1 L1	10,040	2,401	0,000	20,047	400	50	200	0,020	3,071	0,040	540	20	-

TABLE 22A.	Demographic Profile	of Exposure Cases	by Generic	Category of	Substances and	Products: Nor	pharmaceuticals (	Continued)
								/

		Age				Rea	ison		Treated in Health		(	Outcome		
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Posticidos														
Fundicides (non-medicinal)														
Carbamate	181	55	13	113	175	3	0	2	53	24	49	6	1	0
Copper compound	25	2	3	20	22	2	0	1	14	4	11	2	1	0 0
Mercurial	2	1	1	_0	2	0	0	0	0	0	0	0	0	0
Non-mercurial	60	15	2	43	58	1	0	1	15	14	11	4	0	ñ
Phthalimide	125	61	11	51	123	1	0	1	26	23	14	5	0	0
Wood preservative	480	98	33	344	463	6	0	10	115	52	102	15	1	0
Other/unknown	625	182	42	394	584	11	5	23	152	96	134	26	1	0
Fumigants							-						-	-
Aluminum phosphide	97	2	7	83	95	2	0	0	62	10	23	14	4	0
Metam sodium	10	0	2	8	10	0	0	0	8	2	4	0	0	0
Methyl bromide	4	0	0	4	4	0	0	0	2	0	2	0	0	0
Sulfuryl fluoride	458	56	66	331	450	0	5	2	42	79	69	8	3	1
Other	43	3	4	36	42	1	0	0	21	3	17	6	0	0
Unknown	68	10	6	51	67	1	0	0	12	7	18	4	0	0
Herbicides (includes algicides, defoliants, dessicants, plant growth regulators)														
Carbamate	42	7	9	26	36	6	0	0	18	12	8	2	2	0
2,4-D or 2,4,5-T	455	163	37	250	438	8	3	5	89	64	75	19	2	0
Chlorophenoxy	1,717	443	200	1,057	1,641	29	7	31	421	299	416	66	4	1
Diquat	355	83	24	246	332	8	0	15	89	89	86	14	4	0
Glyphosate	4,472	1,217	397	2,814	4,191	43	20	212	868	1,087	1,144	104	5	1
Paraquat	75	1	6	68	69	1	2	2	54	4	17	11	2	2
Triazine	352	65	33	249	340	5	1	3	109	60	86	21	0	0
Urea	93	24	21	48	89	3	1	0	21	11	16	4	1	0
Other	1,623	418	177	1,006	1,573	16	7	24	434	265	332	63	2	1
Unknown	378	94	73	207	359	5	5	5	92	40	93	11	0	0
Insecticides (includes insect growth regulators, molluscicides, nematicides)							_	_						
Arsenic pesticide	422	336	10	72	419	2	0	0	45	154	10	1	0	0
Borate/boric acid	3,818	3,215	145	446	3,736	57	17	8	280	968	143	19	3	0
Carbamate only	3,022	1,319	257	1,422	2,856	82	28	49	574	562	424	96	17	0
Carbamate with other insecticide	723	199	87	432	659	26	20	14	134	126	142	31	1	0
Chlorinated hydrocarbon only	1,522	598	231	683	1,399	55	5	56	543	449	319	58	9	0
Chlorinated hydrocarbon with	040	06	04	100	000	-	0	0	20	40	40	2	2	0
	242	90 70	24 10	120	200	1	0	2	30	40	40	10	3	0
Meteldebude	100	120	10	04 65	104	I G	0	5	33	32	17	12	1	0
Niestine	199	120	14	11	190	0	2	0	40	60	17	0	1	0
	CI 9 021	3 0.201	674	1 961	7 5 6 7	200	- E O	160	4	5 1 700	1 614	401	0	0
Organophosphate/corbometo	190	2,391	10	4,001	170	209	0	100	2,072	1,702	20	401	1	4
Organophosphate/carbamated	109	57	10	114	170	9	U	2	40	31	39	9	1	U
hydrocarbon	42	8	10	23	39	3	0	0	15	5	8	1	1	0
insecticide	1,338	340	142	839	1,271	29	14	19	303	226	301	93	1	1
Organophosphate/ carbamate/chlorinated hydrocarbon	22	1	1	20	22	0	0	0	2	6	4	0	0	0
Piperonyl butoxide only	30	10	5	15	26	1	0	2	9	5	12	1	1	0
Piperonyl butoxide/pyrethrin	1,123	417	140	560	1,055	34	5	29	183	154	202	47	1	0
Pyrethrins only	877	307	102	457	827	31	1	17	170	119	164	39	3	0
Pyrethrin	4,967	1,837	595	2,489	4,644	111	27	174	890	890	1,175	201	9	0
Pyrethroid	12,475	3,915	1,356	7,067	11,506	355	86	496	2,260	2,096	3,010	537	25	0
Rotenone	84	31	11	42	77	2	1	4	12	24	17	4	0	0
Veterinary insecticide	151	54	12	84	144	3	1	3	27	37	24	0	0	0
Other	7,611	4,588	643	2,313	7,351	101	25	119	799	1,419	747	139	13	2
Unknown	3,848	1,040	436	2,283	3,470	138	109	96	906	489	727	184	10	0
Repellents														
Bird, dog, deer or other														
mammal repellent	205	94	30	81	200	1	0	2	20	45	41	4	0	0
Insect repellent with DEET	5,321	3,629	802	867	4,981	56	43	230	478	1,160	1,343	92	8	0
Insect repellent without DEET	1,196	938	138	113	1,158	11	3	24	88	260	159	19	0	0
Insect repellent: unknown	2,183	1,498	338	329	2,112	17	11	37	152	333	389	43	1	0
Naphthalene	1,883	1,367	113	380	1,831	31	8	10	404	740	135	23	4	0
Paradichlorobenzene	123	76	7	39	120	1	1	0	14	40	11	1	0	0
Other moth repellent	40	29	2	9	38	0	2	0	5	12	1	1	0	0

TABLE 22A.	Demographic Profile of Exp	posure Cases by Generic C	Category of Substances and	Products: Non	pharmaceuticals (	Continued)

		Age				Rea	Reason Treat in Hea			Treated in Health Care		Outcome		
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Unknown moth repellent Rodenticides	2,003	1,301	145	540	1,940	39	11	9	384	651	157	21	0	0
ANTU	1	0	0	1	1	0	0	0	0	1	0	0	0	0
Anticoagulant: warfarin-type	462	388	17	53	433	22	5	0	139	183	9	6	0	0
Anticoagulant: long-acting,														
superwarfarin	17,100	15,185	463	1,384	16,348	612	90	27	5,128	5,705	264	122	40	3
Bromethalin	389	334	11	38	367	18	2	2	133	147	10	2	0	0
Cholecalciferol	27	25	0	2	26	1	0	0	8	12	1	0	0	0
Cyanide	2	0	0	2	1	1	0	0	1	0	1	0	0	0
Monofluoroacetate	2	1	0	0	2	0	0	0	2	2	0	0	0	0
Strychnine	124	14	11	94	58	38	21	0	68	23	11	10	7	1
Vacor	3	2	0	1	3	0	0	0	0	2	0	0	0	0
Zinc phosphide	146	68	13	62	118	22	4	1	68	49	19	3	3	0
Other	791	562	62	151	743	25	15	7	111	187	47	7	2	1
Unknown	1,460	950	91	388	1,211	154	79	4	630	440	63	26	12	0
Category total	96,112	50,415	8,342	36,465	90,696	2,457	745	1,954	19,921	21,844	14,563	2,661	274	18
Photographic products														
Developer/fixing/stop bath	457	35	168	251	444	4	1	8	132	45	161	25	1	0
Photographic coating fluid	24	14	6	4	24	0	0	0	1	6	1	0	0	0
Other	822	285	96	432	786	30	1	3	125	138	196	40	1	0
Unknown	9	2	3	4	8	0	0	1	1	2	3	0	0	0
Category total	1,312	336	273	691	1,262	34	2	12	259	191	361	65	2	0
Plant														
Amygdalin/cyanogenic glycoside	2,653	1,804	433	399	2,513	70	8	57	131	582	95	15	1	0
Anticholinergic	1,072	343	475	240	523	523	9	10	613	179	124	358	34	1
Cardiac glycoside	2,054	1,292	373	381	1,946	87	3	16	282	578	129	35	2	0
Colchicine	12	10	0	2	12	0	0	0	1	4	0	0	0	0
Depressant	277	171	37	67	220	44	0	11	49	43	27	6	1	0
Dermatitis	13.569	7.070	1.983	4.404	12.503	385	171	479	1.170	1.480	2.244	422	9	0
Gastrointestinal irritant	14,102	11.155	1.225	1.650	13,553	291	34	202	884	3.017	1.083	169	4	0
Hallucinogenic	478	159	166	127	274	180	2	21	173	93	65	83	4	0
Nicotine	142	39	39	64	121	10	1	3	58	30	40	19	0	0
Non-toxic	15 094	12 445	1 368	1 179	14 605	193	14	270	413	1 708	624	79	9	0
Oxalate	11,932	10,585	739	578	11 751	131	3	42	393	3 117	1 372	80	3	0
Solanine	1 286	969	120	188	1 239	26	2	18	127	421	90	12	0	0
Stimulant	202	126	25	100	1,200	20	1	3	121	68	10	10	1	1
Toyalbumin	177	64	20	43	152	17	2	2	70	40	10	7		0
Other toxic	4 502	2 / 25	29	559	100	102	2	105	425	49	240	67	7	0
Unknown toxic or unknown if	4,592	3,425	567	556	4,373	103	5	105	420	1,100	345	07	1	0
	16,936	12 649	1 857	2 320	16 378	267	46	216	1 211	3 607	1 297	197	11	0
Category total	84,578	62,306	9,456	12,288	80,351	2,336	301	1,456	6,042	16,142	7,594	1,559	87	2
Polishes and waxes	8,910	7,166	526	1,170	8,701	148	33	22	1,053	2,965	1,432	130	9	1
Radioisotopes	374	21	62	279	340	6	7	18	108	32	40	24	0	0
Sporting againment						-							-	-
Sporting equipment	72	47	21	5	66	5	2	0	1	10	4	0	0	0
Fishing ball	73	47	21	5	00	5	2	0	4	10	4	0	0	0
Call hall	21	15	3	10	21	1	0	0	10	5		0	0	0
Golf Dall	37	1	23	13	30	1	0	0	10	4	11	1	0	0
	51	24	3	23	50	1	0	0	25	18	17	1	0	0
Hunting product: other	381	204	74	100	339	22	17	1	113	103	36	4	0	0
Other	166	104	49	13	161	2	1	0	20	58	9	2	0	0
Unknown	2	2	0	0	2	0	0	0	0	1	0	0	0	0
Category total	731	397	173	157	675	31	20	1	174	199	79	8	0	0
Swimming pool/aquarium	10,586	4,508	1,969	3,909	10,038	101	20	415	1,882	1,618	3,147	643	16	1
Tobacco products	7,866	6,779	242	836	7,370	371	48	66	1,642	2,736	1,697	277	10	1
Weapons of mass destruction														
Anthrax	192	9	4	174	84	4	96	2	33	28	14	3	1	0
Other biological weapon	63	6	5	52	61	0	1	0	5	1	4	0	0	0
Other chemical weapon	7	0	1	5	4	0	2	0	3	0	2	1	0	0
Suspicious powder in envelope/														
package	231	10	13	203	63	1	160	0	50	67	11	0	0	0
Other suspicious powder	138	5	9	118	48	2	83	0	16	24	5	5	0	0
Other suspicious substance	90	2	6	78	18	0	71	0	16	20	8	0	0	0
Category total	721	32	38	630	278	7	413	2	123	140	44	9	1	0

<b>.</b>		•			•					•		•		,
			Age			Rea	son		Treated in Health	Outcome				
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Other/unknown nondrug substances	27,217	11,808	4,610	10,194	23,391	707	1,731	791	4,753	3,839	4,434	915	108	1
Total number of non- pharmaceuticals	1,407,184	727,036	180,962	486,815	1,304,548	69,604	11,551	17,697	235,616	230,689	246,733	55,180	4,678	369
% of nonpharmaceuticals		51.7%	12.9%	34.6%	92.7%	4.9%	0.8%	1.3%	16.7%	16.4%	17.5%	3.9%	0.3%	0.0%
% of all substances	52.3%	27.0%	6.7%	18.1%	48.5%	2.6%	0.4%	0.7%	8.8%	8.6%	9.2%	2.1%	0.2%	0.0%

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

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

		Age			Rea	Reason		Treated in Health			Outcome			
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Analgesics														
Acetaminophen only														
Adult formulation	29,967	7,225	10,214	12,341	14,455	15,043	12	328	17,349	8,237	4,593	2,313	586	63
Pediatric formulation	20,159	18,065	1,838	216	19,725	323	8	89	2,546	4,369	371	74	10	0
Unknown formulation	8,251	1,987	2,610	3,561	3,463	4,539	5	103	5,386	2,070	1,504	885	306	56
Acetaminophen in combination with:														
Aspirin with other ingredient	1,636	495	456	675	805	750	0	68	818	381	335	128	11	2
Aspirin without other	4 520	1 505	1 000	1 670	0.061	1 071	0	101	0.067	1 101	000	014	20	-
	4,539	1,535	1,290	1,679	2,301	1,971	2	191	2,207	1,191	1 070	314	20	10
Codellie	17 296	1,000	1,230	3,573	2,300	10.007	10	400	3,300	0.075	1,370	203	120 501	10
Hydrocodone	17,300	1,302	2,040	12,959	5,672	0.744	13	1,100	10,541	2,075	4,310	2,033	150	10
Oxycodone	5,431	200	732	4,040	2,050	2,744		522	2,923	1 010	1,202	023	100	10
Propoxyphene	0,018	100	780	4,507	2,123	3,538	3	292	3,840	1,219	1,508	739	211	28
Other opioid	1,179	120	217	831	441	630	1	83	624	169	230	157	38	9
formulation	19,260	2,682	4,788	11,645	6,286	12,294	12	544	12,718	4,016	4,834	2,559	439	26
formulation	58	46	9	3	55	1	0	2	4	6	7	2	0	0
Aspirin alone														
Adult formulation	5,744	1,925	1,540	2,239	2,982	2,593	2	135	3,100	1,623	981	670	64	12
Pediatric formulation	729	503	117	107	631	79	0	17	196	266	43	26	2	0
Unknown formulation	10,728	2,029	3,539	5,057	3,800	6,605	6	207	7,496	2,422	2,324	1,864	266	48
Aspirin in combination with:														
Carisoprodol	329	15	33	273	57	255	0	13	265	35	105	78	20	0
Codeine	255	31	30	191	83	158	0	11	170	41	64	36	13	1
Oxycodone	201	19	29	150	69	113	0	14	123	30	40	23	7	1
Propoxyphene	39	5	4	30	16	23	0	0	28	4	11	3	4	0
Other opioid	67	2	9	54	14	45	0	8	49	11	18	10	3	0
Other drug: adult														
formulation Other drug: pediatric	1,801	352	304	1,136	827	835	2	116	993	365	423	198	45	5
formulation	2	2	0	0	2	0	0	0	0	2	0	0	0	0
Nonaspirin salicylate	1,116	583	153	377	863	210	2	36	356	297	145	80	9	0
Opioids														
Codeine	1,282	474	280	519	796	380	2	97	440	249	227	74	17	3
Meperidine	558	42	59	447	198	250	1	95	337	83	129	96	21	4
Methadone	2,747	156	260	2,300	712	1,697	8	206	1,956	222	493	649	345	89
Morphine	2,327	208	269	1,815	967	1,064	7	234	1,361	283	437	366	147	37
Oxycodone	4,883	415	563	3,839	1,867	2,593	8	295	2,895	645	1,071	751	294	44
Pentazocine	187	10	18	158	72	78	1	31	99	21	51	20	4	2
Propoxyphene	519	47	47	419	160	324	1	24	351	88	117	86	28	15
Tramadol	2,400	286	293	1,794	826	1,316	1	213	1,585	475	590	387	103	8
Other/unknown	5.321	593	631	4.037	1.768	2.558	16	814	3.245	621	1.190	1.016	402	62
Other nonsteroidal anti- inflammatory drugs	- , -			,	,	,			-, -		,	,		
Colchicine	235	44	24	166	149	58	2	24	139	48	51	29	13	5
Cox-2 inhibitor	6,568	2,335	698	3,488	4,249	1,754	7	525	2,469	1,730	830	459	126	8
Ibuprofen	65,726	37,823	13,890	13,692	47,357	17,051	28	1,118	18,575	16,299	6,222	1,839	253	12
Ibuprofen with														
hydrocodone	43	3	2	37	19	19	0	4	21	8	8	6	0	0
Indomethacin	661	155	85	416	335	257	0	63	316	149	130	48	20	0
Ketoprofen	403	194	65	140	280	103	0	17	134	138	41	13	1	1
Naproxen	12,627	2,594	3,531	6,407	5,986	5,829	5	750	5,818	3,094	2,252	818	115	9
Other	5,929	1,872	776	3,222	3,958	1,580	4	353	2,068	1,429	861	384	94	6
Unknown	12	1	4	7	4	6	1	1	7	3	0	0	0	0
Phenacetin	3	0	0	3	1	2	0	0	2	0	1	1	0	0
Phenazopyridine	1,115	789	101	220	959	89	0	64	285	438	133	28	7	0
Salicylamide	18	11	2	4	14	4	0	0	8	7	3	1	0	0
Other	2,239	684	228	1,317	1,474	463	5	283	645	325	620	181	42	2
Unknown	244	36	86	116	60	166	0	15	162	41	63	20	2	0
Category total	256,843	90,295	54,494	110,215	141,363	103,679	179	9,651	118,095	58,257	40,895	20,676	4,901	659
Anesthetics														
Inhalation anesthetics														
Nitrous oxide	201	14	57	129	111	57	2	29	106	9	47	40	4	1
Other	216	16	44	148	165	30	10		104	24	77	21	7	1
Unknown	2	1	0	1	0		0	- 1	2	- 1	1	0	0	0
Ketamine and analoos	342	12	101	223	65	248	11	13	284	30	80	109	35	0
						= . 5			· .					

TABLE 22B.	Demographic Profile	of Exposure Cases b	v Generic Category	of Substances and	Products: Pharmaceuticals	(Continued)
			,			(

Locatheproine         cont         cont         Adv         Part         Nome         Manuer         Manuer         Manuer         Descination           Locatheproine         77         3         1         9         6         0         1         2         77         2         10         0         1         0         1         0         1         0         1         0         1         0         2         1         0         2         1         0         2         4         0         1         0         2         0         1         1         0         0         2         4         0         1         1         0         0         0         2         4         0         1         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			Age			Reason		Treated in Health			Outcome				
Locational methods         Hole         Hole <th></th> <th>No. of Exposures</th> <th>&lt;6</th> <th>6-19</th> <th>&gt;19</th> <th>Unint</th> <th>Int</th> <th>Other</th> <th>Adv Rxn</th> <th>Care Facility</th> <th>None</th> <th>Minor</th> <th>Moderate</th> <th>Major</th> <th>Death</th>		No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Diblocaine         17         2         47         7         2         9         1         0           Libceane         1,272         444         500         1,201         5,831         10         2         2         251         440         2,20         840         2,141         6,00         2         0         1         2         0         1         2         0         1         1         0         1         1         0         1         1         0         1         1         0         1         0         1         0         1         0         1         0         1         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         0         0         1         0         0         0         0         0         0         0         0         0         0        <	Local/topical anesthetics														
Lubacalne 1,772 9 848 207 611 1,771 78 3 117 378 469 288 80 13 1 Cher Charlow 6,283 4,448 500 122 13 22 13 0 0 7 14 4 6 7 5 2 0 Catagory Lal 8,671 5,534 912 2,74 7,855 5,96 49 430 7,77 2,868 1,100 377 7,9 3 Catagory Lal 8,671 5,534 912 2,74 7,855 5,96 49 430 7,77 2,268 1,100 377 7,9 3 Catagory Lal 8,671 5,534 912 2,74 7,855 5,96 49 430 7,77 2,268 1,100 377 7,9 3 Catagory Lal 8,671 5,534 912 2,74 7,855 5,98 49 430 7,77 2,268 1,100 3,77 7,9 3 Catagory Lal 8,671 5,534 912 2,74 7,855 5,98 4,9 430 7,97 1,0 3,77 7,9 3 Catagory Lal 8,671 5,534 912 2,74 7,855 5,98 4,9 430 7,97 1,0 3,77 7,9 3 Catagory Lal 8,71 5,534 912 2,74 7,855 5,98 4,9 430 7,97 1,0 1 Catagory Lal 8,71 5,534 912 2,74 7,857 1,00 1,13 0 5,9 1,12 2,11 1, 3 37 1,5 0 Catagory Lal 8,72 1,07 1,00 1,3 0 5,9 1,12 2,11 1, 3 37 1,5 0 Catagory Lal 1,24 1,249 1,25 1,210 1,13 2,75 3,1 1,99 7,365 5,288 1,111 655 1,10 7,7 1 6 1,0 Catagory Lal 4,15 1,10 1,13 2,758 3,18 5,19 9 4 10 1,70 1,70 1,20 1,27 2,21 1,7 1 1 Catagory Lal 4,155 1,310 1,31 2,738 3,18 5,19 9 4 10 1,70 1,70 1,70 1,70 1,70 1,7 1 1 Catagory Lal 4,155 1,310 1,31 2,738 3,18 5,19 9 4 10 1,70 1,70 1,70 1,70 1,70 1,70 1,70 1	Dibucaine	47	37	1	9	46	0	0	1	2	17	2	0	1	0
Other         63:33         4:48         500         1.233         0.833         1.20         2.3         2.1         0         7         1.4         4         5         5         2         0           Unknown         5         2         0         3         2         1         0         2         1.0         0         1.714         4.4         5         5         2         0           Company total         8.571         0.563         0.12         2.374         7.835         8.84         4.00         1.714         4.4         6         5         1         1         0         0         1.714         4.408         1.01         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Lidocaine	1,772	945	207	611	1,571	78	3	117	378	460	258	80	13	1
Other         33         12         2         17         22         3         0         7         14         4         5         5         2         0         0         2         4         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Other/unknown	6,253	4,495	500	1,233	5,853	120	23	251	880	2,143	629	122	15	0
Unlexovn         5         2         0         3         2         1         0         2         4         0         1         0         2         0           Calegory brain         6.700         6.760         1.681         720         3.539         1.778         4         340         1.774         2.808         1.000         8.71         0         0         9         1.00         1.01         1.01         1.01         1.01         1.01         0         0         9         1.01         0         0         9         1.01         0         0         9         1.01         0         0         1.02         1.11         0         0         0         1.02         1.01         1.01         0         0         1.02         1.01         1.02         1.01         1.02         1.01         1.01         0         0         0         1.02         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01         1.01 <th1.01< th=""> <th1.01< t<="" td=""><td>Other</td><td>33</td><td>12</td><td>2</td><td>17</td><td>22</td><td>3</td><td>0</td><td>7</td><td>14</td><td>4</td><td>5</td><td>5</td><td>2</td><td>0</td></th1.01<></th1.01<>	Other	33	12	2	17	22	3	0	7	14	4	5	5	2	0
Category Utal         8.871         5.54         912         2.747         7.885         5.88         49         49         40         1.774         2.898         1.000         977         70         3           Ancid-bolancy ic drugs         5.760         1.861         720         3.379         3.539         1.778         4         307         2.926         1.300         1.046         811         1         0         0           Markin-location         9         0         0         0         9         1         1         0         0         0         1         1         0         0           Warkin-locating         2.64         832         89         1.724         1.997         365         5         298         1.181         665         163         372         100         7         1         1         0         0         0         7         7         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Unknown	5	2	0	3	2	1	0	2	4	0	1	0	2	0
Anticonserve         5.760         1.761         720         3.539         1.778         4         987         2.926         1.900         1.014         1.01           Anticoguents (Supported INHB)	Category total	8,871	5,534	912	2,374	7,835	538	49	430	1,774	2,688	1,100	377	79	3
AnticogenetaImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImploreImplore<	Anticholinergic drugs	5,780	1,661	720	3,379	3,539	1,778	4	387	2,926	1,390	1,046	811	194	10
Operation         Unit         No	Anticoagulants														
minimizer         9         0         0         9         5         1         0         0         1         0         0           Wann         Mark         Base         1         1         0         0         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10 <td>Glycoprotein IIA/IIB</td> <td></td> <td></td> <td></td> <td>_</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td>_</td> <td></td> <td></td> <td>_</td> <td>-</td>	Glycoprotein IIA/IIB				_	-		-		-	_			_	-
Hepan         164         27         6         127         100         13         0         00         102         21         13         37         15         100           Warmin (excluding Unknown)         284         832         833         372         100         7         1           Other Unknown         48         21         3         22         107         133         1         2         16         7         2         1         7         1           Other         48         21         33         22         33         1         2         16         7         2         1         7         1           Other         48         2.276         3.185         519         9         418         1.731         6.437         2.711         8.58         9.57         2.52         1.751         2.58         1.751         2.302         2.410         6.736         2.322         2.467         1.643         8.98         2.58         1.641         2.268         3.431         1.010         3.33         2         1.0         1.02         1.01         2.335         1.01         1.01         1.01         1.01         1.02         1.02 <td>inhibitor</td> <td>9</td> <td>0</td> <td>0</td> <td>9</td> <td>8</td> <td>1</td> <td>0</td> <td>0</td> <td>9</td> <td>5</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td>	inhibitor	9	0	0	9	8	1	0	0	9	5	1	1	0	0
Name         Sector         Sector <td>Heparin</td> <td>164</td> <td>27</td> <td>6</td> <td>127</td> <td>100</td> <td>13</td> <td>0</td> <td>50</td> <td>102</td> <td>21</td> <td>13</td> <td>37</td> <td>15</td> <td>0</td>	Heparin	164	27	6	127	100	13	0	50	102	21	13	37	15	0
	Wartarin (excluding	2 684	833	80	1 754	1 007	365	5	208	1 1 2 1	655	163	370	100	7
Other         I.Z.B         O.T.         O.T. <tho.t.< th="">         O.T.         O.T.         <t< td=""><td>Other antiplatelet</td><td>1 22/</td><td>315</td><td>33</td><td>872</td><td>1,007</td><td>133</td><td>1</td><td>230</td><td>283</td><td>373</td><td>80</td><td>75</td><td>100</td><td>3</td></t<></tho.t.<>	Other antiplatelet	1 22/	315	33	872	1,007	133	1	230	283	373	80	75	100	3
Current of the second		1,224	010	33	012	1,027	100	1 0	0	303	10	00	1	10	- 1
Andiophy         1.210         1.210         2.785         3.185         519         4         1.720         1.073         2.61         4.85         1.19         11           Anticonvisants         Carbamazingini         5.65         1.221         2.033         2.033         1.378         6         4.322         2.701         1.463         8.89         915         7.58         117         55           Phemytoin         4.017         509         2.286         2.288         2.471         15         6.432         2.701         8.89         915         7.58         4.01         2.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00	Unknown	40	2 I 15	0	11	20	4		9	29	12	2	1	1	0
concept of the first fir	Category total	4 155	1 210	131	2 795	3 185	519	9	ے 418	1 720	1 073	261	487	139	11
Andregnessants         5,845         1,228         1,121         2,969         3,433         1,841         2         2,88         3,423         1,105         1,463         889         2,68         1,75           Phenytoin         4,017         598         3,21         3,073         2,103         1,179         6         4,32         2,071         1,34         66         9,00         3         1         4         0         0         3         3         1         4         0         0         3         3         1         4         0         0         3         3         1         4         0         0         3         3         2         1         0         0         0         3         3         2         1         0         0         0         3         3         2         1         0         0         0         3         3         2         1         0         0         0         3         3         1         1         0         0         0         3         3         1         1         0         0         0         3         3         1         1         0         0         0         0		4,100	1,210	101	2,700	0,100	010	Ū	410	1,720	1,010	201	-107	100	
Carlia Datapolitie         June 1         June 2         June 3         June 3 <thjune 3<="" th=""></thjune>	Corbomozonino	5 645	1 500	1 101	2 060	2 120	1 0/1	2	269	2 100	1 105	1 /62	000	269	0
Primiyolin         n, 1/1         abs         3, 1/3         2, 1/3         6         1, 3/2         2, 1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3         1/3	Carbanazepine	5,645	1,520	1,121	2,909	0,400	1,041	2	200	0,420	1,105	1,403	090	200	0
Primitopie         347         30         20         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         20	Prieriytoin	4,017	595	321	3,073	2,103	1,370	0 1	432	2,701	009	915	/ 56	117	5
Succiminate         90         140         90         24         24         24         24         24         14         0         0         33         14         14         14         0         0           Other         15,682         1,891         2,096         10,762         6,804         8,160         17         816         10,100         3,28         4,004         2,431         772         31           Other         15,682         1,891         2,005         16,496         16,876         38         1,911         23,127         7,673         6,965         5,651         1,000         6           Octica antidepressants         Octica antidepressants         0         3         3         1         0         6         0         11         146         35         47         38         10         0         6         0         11         146         35         17         38         11         0         11         146         35         47         38         10         2         10         1         17         7         2         6         3         1         1         0         1         17         7         2         10 </td <td>Primidone</td> <td>347</td> <td>50</td> <td>28</td> <td>208</td> <td>283</td> <td>47</td> <td>1</td> <td>15</td> <td>134</td> <td>00</td> <td>100</td> <td>23</td> <td>3</td> <td>0</td>	Primidone	347	50	28	208	283	47	1	15	134	00	100	23	3	0
Valipticia Labol         10.062         1,116         2,306         1,736         2,402         2,403         2,426         2,431         7,72         31           Unknown         7         2         0         4         3         4         0         0         3         3         2         1         0         0           Category total         35.845         5.22         6,744         2,377         1,816         1,010         3,728         4,00         65           Antidepressants         -         -         7,873         8,965         5,619         2,277         4,919         11         168         5,839         1,083         1,739         1,944         846         54           Amoxapin         7,567         111         127         132         1,944         846         54         38         1,02         29         1,262         182         410         423         180         23           Dokepin         1,576         111         127         132         130         2         12         13         1         1         7         2         6         3         1         1         1         2         15         1		96	40	32	24	4 000	14 5 400	10	410	30	31	14	4	110	0
Uninov         15.802         1.891         2.908         10.762         0.604         0.7         0.10         3.263         4.004         2.131         7.72         3         7         2         0         4         3         4         0         0         3         3         2         1         0         0           Category total         35.836         5.222         6.784         23.977         1.649         16.876         3         1.941         2.3127         7.673         8.965         5.651         1.000         65           Amitripytine         7         4         3         10         6         8         0         2.101         1.11         168         5.839         1.083         1.739         1.944         8.46         54           Amoxapine         17         4         3         10         6         8         0         11         146         35         47         38         20         33           Doxepin         1.576         111         127         13.02         130         1         17         7         2         6         3         1           Magrotiline         27         2         6		10,062	1,118	2,376	6,497	4,083	5,432	12	410	0,730	2,320	2,467	1,536	440	21
Unincom 7 2 2 0 4 3 3 4 0 0 3 3 2 1 0 0 6 5 3 1 , 1941 23, 127 7, 673 8, 965 5, 651 1, 600 65 Antidepressants Cyclic antidepressants Designamine 17 4 3 10 6 8 0 2 10 3 3 1 1 0 0 20 3 Designamine 17 4 3 10 6 8 0 2 10 3 3 1 1 10 0 20 3 Designamine 1, 576 111 127 1, 327 392 1, 130 2 29 1, 128 440 423 180 23 Designamine 1, 576 111 127 1, 327 392 1, 130 2 29 1, 128 440 423 180 23 Designamine 1, 058 237 339 477 5 582 411 0 48 650 264 222 151 53 6 Maprotiline 27 2 6 19 12 13 0 1 17 7 2 6 3 1 1 Nortinplyine 1, 110 132 132 840 421 2 607 2 68 751 204 233 209 85 8 Protripsyline 1, 110 132 132 840 421 2 607 2 68 751 204 233 209 85 8 Protripsyline 1, 1423 103 203 1, 108 472 834 5 39 1, 091 173 316 435 199 14 Unknow cyclic antidepressant formulated with a benzoalizepine 53 8 7 38 24 28 0 0 37 11 45 1 7 12 10 9 Cyclic antidepressant formulated with a benzoalizepine 53 8 7 38 24 28 0 0 37 11 44 10 4 0 Cyclic antidepressant formulated with a benzoalizepine 53 8 7 38 24 28 0 0 37 11 14 10 4 0 Cyclic antidepressant formulated with a benzoalizepine 53 8 7 38 24 28 0 10 37 11 14 10 4 0 Cyclic antidepressant formulated with a benzoalizepine 53 8 7 38 2, 1,630 2,593 9 596 3,877 898 1,181 1,247 280 15 NAO Inhibitor 317 42 4 208 181 84 0 50 171 77 38 61 26 2 SSRI 4624 7.615 11,188 27.008 17.03 5,620 5,347 898 1,181 1,247 280 15 NAO Inhibitor 317 42 4 286 181 84 0 50 171 77 73 8 61 26 2 Unknown 90 11 16 60 20 63 1 4 66 3 10 20 9 9 2 0 9 2 0 0 7 1 7 2.168 10,08 13,862 9,026 5,033 12 2,079 3,027 11,166 10,067 10,47 1,302 93 Tracodone 12,573 77 41 1,951 9,722 3,161 8,927 8 148 20 5,031 12,248 10,0 240 3,352 1,578 6,33 2 2,100 0 Dipherhydramine 16 0 73 63 32 2,100 0 Dipherhydramine 170 6 1,679 1,589 2,500 5,540 5,540 5,541 1,500 1,578 8,520 5,541 1,500 2,573 32 2,100 0 Dipherhydramine 170 6 1,670 2,773 1,474 7,708 1,585 9,578 5,777 1,21 1,238 1,246 7,130 2,457 0,431 3,32 2,100 0 Dipherhydramine 170 6 1,670 2,773 1,474 7,708 8,175 6,474 2,578 4,110 0,88 1,382 2,100 0 Dipherhydramine 170 6 1,578 8,500 5,541 1,598 5,500 5,545 5,177 2,1 1,23 4	Other	15,662	1,891	2,906	10,762	6,504	8,160	17	816	10,100	3,283	4,004	2,431	112	31
Lategory initial 3,6,63 5,222 6,764 2,3,57 16,46 16,676 36 1,241 2,217 7,673 6,265 5,611 1,000 65 Amidgoressants Cyclic antidepressants Amitripyline 7,513 923 915 5,619 2,277 4,919 11 168 5,839 1,083 1,739 1,944 846 54 Amicxapine 17 4 4 3 10 6 8 0 2 10 3 3 1 1 0 Designamine 207 27 33 147 86 106 0 11 146 35 47 38 20 3 Doxepin 1,576 111 127 1,327 392 1,130 2 29 1,282 182 410 423 Imigramine 1,058 237 339 475 582 411 0 48 650 264 222 151 53 6 Maprotiline 2,7 2 6 19 12 13 0 1 17 7 2 6 6 3 1 Nortiptyline 1,110 132 132 840 412 607 2 68 751 204 233 209 85 8 Protiptyline 1,110 132 132 840 412 607 2 68 751 204 233 209 85 8 Protiptyline 1,423 103 203 1,108 472 834 5 39 1,091 173 316 435 199 14 Unknown cyclic antidepressant formulated with a phenotingarine 53 8 7 38 24 28 0 0 37 11 145 1 7 12 10 9 Cyclic antidepressant formulated with a phenotingarine 146 4 75 37 7 34 0 1 45 1 7 12 10 9 Cyclic antidepressant formulated with a phenotingarine 146 4 17 9 112 51 84 0 3 100 18 29 42 15 1 Lithium 4,954 301 802 3,822 1,630 2,593 9 596 3,877 898 1,161 1,247 280 15 MAO inhibitor 317 42 4 268 181 84 0 50 171 77 78 6 61 26 2 SSRI 46,244 7,615 11,188 27,060 1,068 2,259 16 4,050 171 77 78 6 61 26 2 SSRI 46,244 7,615 11,188 27,060 1,068 2,259 16 4,050 171 77 6 43 23 Other 22,644 3,510 4,281 14,533 8,642 12,597 16 1,035 15,748 5,260 5,354 3,952 1,137 66 Unknown 9 01 11 6 600 20 63 1 4 63 10 0 20 9 2 0 Category ital 99,860 13,830 10,025 6,233 3,225 59,168 86 4,517 68,444 2,2527 2,444 16,70 4,618 318 Athibations Diphenhydramine: W1 22,517 14,741 7,708 10,64 2,763 3,407 3,642 12,257 14,70 646 10,70 6 Diphenhydramine: W1 2,717 14,741 7,708 10,64 2,256 2,343 73 2 Other 32,773 14,741 7,708 10,64 2,256 17,122 4,516 10,855 8,564 4,517 2,545 4,516 10,60 6 Diphenhydramine: W1 4,917 9,712 3,88 8,006 13,667 7,723 24 613 8,673 4,735 4,014 2,203 358 29 Diphenhydramine: W1 2,256 10,3 40,78 3,542 2,256 7 120 2,538 1,242 1,170 666 Unknown 190 11 16 600 20 6,31 1,267 1,570 2,454 6,312 2,26 3,73 3 COther 22,484 3,510 4,241 3,703 4,047 3,642 2,256 11 1,57 6	Unknown Ostanami tatal	1	2	0	4	3	4	0	1041	3	3	2	1	0	0
Antidepressants         Value         Antidepressants         Value         Va	Category total	35,836	5,222	6,784	23,597	16,496	10,870	38	1,941	23,127	7,673	8,965	5,651	1,600	60
Cyclic antidepressants         Vision Vi	Antidepressants														
Aminiphyline         7,513         923         915         6,619         2,277         4,919         11         118         5,339         1,083         1,739         1,944         946         54           Designamine         207         27         33         147         66         106         0         11         146         35         47         383         20         3           Doxepin         1,576         111         127         1,327         392         1,100         2         29         1,22         410         423         160         23         6         19         12         13         0         1         177         7         2         6         3         1           Nortipyline         1,101         132         132         440         14         607         2         68         751         204         233         209         85         8           Protripyline         28         5         4         19         12         67         834         5         39         1,011         1,43         1,01         1,42         1,01         1,4         1         1         1,43         1,01         1,212	Cyclic antidepressants														
Amoxapine         17         4         3         10         6         8         0         2         10         3         3         1         1         0           Designamine         207         27         33         147         768         106         0         11         146         35         47         38         20         3           Dowepin         1.576         111         127         1,327         392         1,130         2         2         9         1,262         182         410         423         180         23           Impromine         2.7         2         6         9         12         13         0         1         17         7         2         6         3         1           Protitylyline         1,101         132         132         440         19         12         15         0         1         19         7         6         2         10         10           Other cyclic         antidepressant         1,423         103         203         1,108         21         13         21         11         14         10         4         0         3         100         1	Amitriptyline	7,513	923	915	5,619	2,277	4,919	11	168	5,839	1,083	1,739	1,944	846	54
Descipramine         207         27         33         147         96         106         0         1         146         35         47         38         20         33           Doxepin         1,576         111         127         339         475         582         111         0         48         650         264         222         151         63         6           Maprotiline         27         2         6         19         12         13         0         1         17         7         2         6         3         1           Nortiptyline         1,101         312         132         840         412         667         39         1,011         173         316         435         199         14           Other cyclic         antidepressant         1,423         103         203         1,018         472         834         0         1         45         1         7         12         10         9           Ordicic antidepressant         1,643         1,437         303         2,03         1,631         8,77         888         1,181         1,42         260         1,18         29         22         15 <td>Amoxapine</td> <td>17</td> <td>4</td> <td>3</td> <td>10</td> <td>6</td> <td>8</td> <td>0</td> <td>2</td> <td>10</td> <td>3</td> <td>3</td> <td>1</td> <td>1</td> <td>0</td>	Amoxapine	17	4	3	10	6	8	0	2	10	3	3	1	1	0
Doespin         1,576         111         127         1,327         392         1,130         2         9         1,262         116         410         423         180         213           Imipramine         1,058         237         339         475         568         411         0         1         177         7         2         6         3         1           Nortiptyline         1,110         132         132         840         412         607         2         68         751         204         233         209         85         8           Protriptyline         1,423         103         203         1,108         472         834         5         39         1,011         173         316         435         199         14           Uhrown cyclic         1,423         103         203         1,108         472         84         0         0         1         145         1         7         12         10         9           Cyclic antidepressant         1,423         16         1         8         0         0         3         100         18         29         42         15         1           <	Desipramine	207	27	33	147	86	106	0	11	146	35	47	38	20	3
Imparamine         1,058         237         339         475         582         411         0         48         660         224         12         151         53         6           Maprotiline         27         2         6         13         12         133         0         1         17         7         2         6         3         1           Nortriptyline         1,10         132         132         840         412         607         1         19         7         7         6         2         0           Other cyclic antidepressant         1,423         103         203         1,108         472         834         5         39         1,091         173         316         435         199         1           Order antidepressant formulated with a phenotination         46         4         5         37         7         38         24         28         40         1         45         1         7         12         10           Order antidepressant formulated with a phenotination         400         17         7         80         3.877         88         11         84         0         50         3.877         88 <th< td=""><td>Doxepin</td><td>1,576</td><td>111</td><td>127</td><td>1,327</td><td>392</td><td>1,130</td><td>2</td><td>29</td><td>1,262</td><td>182</td><td>410</td><td>423</td><td>180</td><td>23</td></th<>	Doxepin	1,576	111	127	1,327	392	1,130	2	29	1,262	182	410	423	180	23
Map orbitine         27         2         6         19         12         13         0         1         17         7         2         6         3         1           Nortriptyline         1,100         132         132         840         412         607         2         6         751         204         233         209         85         8           Protriptyline         28         5         4         19         17         7         6         2         0           antidepressant formulated with a benzodiazepine         1,42         103         203         1,108         472         2834         5         39         1091         173         316         435         199         14           Uhrknown cyclic antidepressant formulated with a phenotihizene         46         4         5         37         7         34         0         0         37         11         14         0         42         4         28         18         4         0         50         117         77         88         1,18         1,416         26         1,53         32         2,079         30,027         11,965         0,607         1,302         933 <t< td=""><td>Imipramine</td><td>1,058</td><td>237</td><td>339</td><td>475</td><td>582</td><td>411</td><td>0</td><td>48</td><td>650</td><td>264</td><td>222</td><td>151</td><td>53</td><td>6</td></t<>	Imipramine	1,058	237	339	475	582	411	0	48	650	264	222	151	53	6
Northrphyline         1.10         1.32         1.32         1.40         1.41         607         2         68         751         204         2.33         2.09         85         8           Protriptyline         28         5         4         19         12         15         0         1         19         7         7         6         2         0           Other cyclic         antidepressant         1,423         103         203         1,108         472         834         5         39         1,091         173         316         435         199         14           Unknown cyclic         antidepressant         46         4         5         37         7         34         0         1         45         1         7         12         10         9           Cyclic antidepressant         formulated with a         benexodiazepine         53         8         7         38         24         28         16.30         3.00         3.87         3.89         1.181         1.247         15         1           Libium         4.954         301         802         3.82         1.61         8.27         3.87         3.89         1.181 <td>Maprotiline</td> <td>27</td> <td>2</td> <td>6</td> <td>19</td> <td>12</td> <td>13</td> <td>0</td> <td>1</td> <td>17</td> <td>7</td> <td>2</td> <td>6</td> <td>3</td> <td>1</td>	Maprotiline	27	2	6	19	12	13	0	1	17	7	2	6	3	1
Protipylpine         28         5         4         19         12         15         0         1         19         7         7         6         2         0           Other cyclic antidepressant formulated with a benzodiazepine         1,423         103         203         1,108         472         834         5         39         1,011         173         316         435         199         14           Unknown cyclic antidepressant formulated with a benzodiazepine         46         5         37         7         34         0         1         45         1         7         12         10         9           Cyclic antidepressant formulated with a benzodiazepine         53         8         7         98         24         28         0         0         37         11         14         10         42         10         10         10         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11	Nortriptyline	1,110	132	132	840	412	607	2	68	751	204	233	209	85	8
Other cyclic antidepressant         1,42         103         203         1,108         472         834         5         39         1,091         173         316         435         199         14           Unknown cyclic antidepressant formulated with a benzolizepine         46         4         5         37         7         34         0         1         45         1         7         12         10         9           Cyclic antidepressant formulated with a benzolizepine         53         8         7         38         24         28         0         0         37         11         14         10         4         0           Cyclic antidepressant formulated with a benzolizepine         51         84         0         33         100         18         29         422         15         1           Lithium         4,964         301         802         3,822         1,630         2,593         9         596         3,877         898         1,181         1,247         280         13           MAO inhibitor         317         42         4         268         18,188         8,29         9,591         3,007         11,965         1,667         6,047         1,302	Protriptyline	28	5	4	19	12	15	0	1	19	7	7	6	2	0
antidepressant         1,423         103         203         1,108         472         834         5         39         1,091         173         316         435         199         14           Unknown cyclic antidepressant formulated with a benzodiazepine         46         4         5         37         7         34         0         1         45         1         7         12         10         9           Cyclic antidepressant formulated with a phenotilazine         53         8         7         38         24         28         0         37         11         14         10         4         0           Cyclic antidepressant formulated with a phenotilazine         140         177         9         112         51         84         0         33         100         18         29         42         15         1           Lithium         4,954         301         802         3,822         1,630         2,533         32         2,079         30,027         11,965         0,667         6,047         1,302         93           SSRI         46,244         7,615         11,188         2,000         17,058         8,623         316         4         63         10	Other cyclic														
Unknown cyclic antidepressant formulated with a benzodiazepine         6         4         5         37         7         34         0         1         45         1         7         12         10         9           Cyclic antidepressant formulated with a benzodiazepine         53         8         7         38         24         28         0         0         37         11         14         10         4         0           Cyclic antidepressant formulated with a phenothiazine         140         17         9         112         51         84         0         3         100         18         29         42         15         1           Lithium         4,964         3011         802         3,827         956         3,877         88         1,81         1,247         20         151           MAO inhibitor         317         42         4         268         181         84         0         50         171         77         38         61         1267         13.02         233           Trazodone         12,573         764         1,951         9,722         3,616         8,927         8         324         6,17         12,64         6,453         16,74<	antidepressant	1,423	103	203	1,108	472	834	5	39	1,091	173	316	435	199	14
antidepressant formulated with a benzodiazepine       43       43       1       43       1       7       12       10       9         Cyclic antidepressant formulated with a benzodiazepine       53       8       7       38       24       28       0       0       37       11       14       10       4       0         Cyclic antidepressant formulated with a phenothizzine       140       17       9       112       51       84       0       3       100       18       29       42       15       1         Lithium       4,954       301       802       3,822       1,830       2,6733       32       2,079       30,027       11,965       10,667       6,047       1,302       93         SSRI       46,244       7,615       11,188       27,080       17,058       26,733       32       2,079       30,027       11,965       10,667       6,047       1,302       93       23       230       4,157       2,115       453       233         Other       22,484       3,510       4,281       14,533       8,642       12,573       16       1,035       15,748       5,280       5,354       3,952       1,137	Unknown cyclic	46	4	5	07	7	24	0	-	45	-	7	10	10	0
Cyclic antidepressant benzodiazepine         53         8         7         38         24         28         0         0         37         11         14         10         4         0           Cyclic antidepressant formulated with a phenothiazine         140         17         9         112         51         84         0         3         100         18         29         42         15         1           Lithium         4,954         301         802         3,822         1,630         2,593         9         596         3,877         898         1,181         1,247         280         15           MA0 inhibitor         317         42         4         286         181         84         0         50         171         777         38         61         26         2         3         1,302         2,079         30,027         11,965         10,667         6,017         1,302         93         17.302         93         17.302         93         17.302         93         17.302         93         17.302         93         17.302         93         15.33         8,642         12,573         14.4         63         10         2.0         0.2         1,30	antidepressant	40	4	5	37	1	34	U	I	45	1	1	12	10	9
Denzoolazepine         53         8         7         38         24         28         0         0         37         11         14         10         4         0           Cyclic anticlepressant formulated with a phenothiazine         140         17         9         112         51         84         0         3         100         18         29         42         15           MAO inhibitor         317         42         4         268         181         84         0         50         171         77         38         61         26         2           SSRI         46,244         7,615         11,188         27,080         17,058         26,733         32         2,079         30,027         11,965         10,667         6,047         1,302         93         20         0         7,137         66         2,009         4,157         2,115         453         23         2,115         453         23         2,157         16         1,035         15,748         5,280         5,354         3,952         1,137         66           Uhknown         90         11         16         60         20         63         1         4         63	formulated with a	50		-				•	0	07			10		0
Cyclic antidepressant phenothiazine         140         17         9         112         51         84         0         3         100         18         29         42         15         1           Lithium         4.954         301         802         3,822         1,630         2,593         9         596         3,877         898         1,811         1,247         280         15           MAO Inhibitor         317         42         4         268         181         84         0         50         171         77         38         61         26         2           SSRI         46,244         7,615         11,188         27,080         17,058         26,733         32         2,079         30,027         11,965         16,676         6,047         1,302         93           Trazodone         12,573         784         1,951         9,722         3,161         8,027         8         382         9,591         2,309         4,157         2,115         453         8,96         1,657         1,453         8,642         12,597         16         1,035         16,748         5,354         3,952         1,178         4,014         2,303         358	benzodiazepine	53	8	1	38	24	28	U	0	37	11	14	10	4	0
ohrenothiazine         140         17         9         112         51         84         0         3         100         18         29         42         15         1           Lithium         4,954         301         802         3,822         1,630         2,593         9         596         3,877         898         1,181         1,247         280         15           MAO inhibitor         317         42         4         268         181         84         0         50         171         77         38         61         22         93           SSRI         46,244         7,615         11,188         27,080         17,058         26,733         32         2,079         30,027         11,965         10,667         6,047         1,302         93           Other         22,484         3,510         4,281         14,533         8,642         12,597         16         1,035         15,748         5,254         5,354         3,952         1,137         66           Category total         99,860         13,836         20,025         65,216         36         4,517         69,444         22,527         24,461         16,703         4,914	formulated with a														
Lithium       4,954       301       802       3,822       1,630       2,593       9       596       3,877       898       1,181       1,247       280       15         MAO inhibitor       317       42       4       268       181       84       0       50       171       777       38       61       26       2         SSRI       46,244       7,615       11,188       27,080       17,058       26,733       32       2,079       30,027       11,965       10,667       6,047       1,302       93         Trazodone       12,573       784       1,951       4,233       8,642       12,597       16       10,05       15,748       5,280       5,354       3,952       1,137       66         Unknown       90       11       16       60       20       63       1       4       63       10       20       9       2       0         Category total       99,860       13,862       20,025       65,33       35,025       59,186       86       4,517       69,444       22,527       24,446       16,708       3,852       1,318       4,618       318         Diphenhydramine:       00 Co	phenothiazine	140	17	9	112	51	84	0	3	100	18	29	42	15	1
MAO inhibitor       317       42       4       268       181       84       0       50       171       77       38       61       26       2         SSRI       46,244       7,615       11,188       27,080       17,058       26,733       32       2,079       30,027       11,965       10,667       6,047       1,302       93         Trazodone       12,573       784       1,951       9,722       3,161       8,927       8       382       9,591       2,309       4,157       2,115       453       23         Other       22,484       3,510       4,221       14,533       8,642       12,597       16       1,035       15,748       5,280       5,544       3,552       1,137       66         Unknown       90       11       16       60       20       63       1       4       63       10       20       9       2       0         Category total       99,860       13,867       2,025       59,186       86       4,517       69,44       2,2527       24,446       16,708       4,014       2,303       358       29       0       0       0       0       0       0       0	Lithium	4,954	301	802	3,822	1,630	2,593	9	596	3,877	898	1,181	1,247	280	15
SSRI       46,244       7,615       11,188       27,080       17,058       26,733       32       2,079       30,027       11,965       10,667       6,047       1,302       93         Trazodone       12,573       784       1,951       9,722       3,161       8,927       8       382       9,591       2,09       4,157       2,115       453       23         Other       22,484       3,510       4,281       14,533       8,642       12,597       16       1,035       15,748       5,280       5,354       3,952       1,137       66         Unknown       90       11       16       60       20       63       1       4       63       10       20       9       2       0         Category total       99,860       13,86       20,025       65,236       35,025       59,186       86       4,517       69,444       22,527       24,446       16,078       4,014       2,033       358       29         Diphenhydramine:       unknown if OTC or       Rx       21,684       9,742       3,828       8,006       13,667       7,273       24       613       8,673       4,735       4,014       2,303       358       <	MAO inhibitor	317	42	4	268	181	84	0	50	171	77	38	61	26	2
Trazodone       12,573       784       1,951       9,722       3,161       8,927       8       382       9,591       2,309       4,157       2,115       453       23         Other       22,484       3,510       4,281       14,533       8,642       12,597       16       1,035       15,748       5,280       5,354       3,952       1,137       66         Unknown       90       11       16       60       20       63       1       4       63       10       20       9       2       0         Category total       99,860       13,836       20,025       65,236       35,025       59,186       86       4,517       69,444       22,527       24,446       16,708       4,618       318         Antifistamines       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K       K	SSRI	46,244	7,615	11,188	27,080	17,058	26,733	32	2,079	30,027	11,965	10,667	6,047	1,302	93
Other         22,484         3,510         4,281         14,533         8,642         12,597         16         1,035         15,748         5,280         5,354         3,952         1,137         66           Unknown         90         11         16         60         20         63         1         4         63         10         20         9         2         0           Category total         99,860         13,836         20,025         65,26         35,025         59,186         86         4,517         69,444         22,527         24,446         16,708         4,618         318           Antihistamines         Uphenhydramine: unknown if OTC or Rx         21,684         9,742         3,828         8,006         13,667         7,273         24         613         8,673         4,735         4,014         2,303         358         29           Diphenhydramine: Rx         225         103         40         81         155         64         0         6         73         63         32         21         0         0           Diphenhydramine: OTC         6,224         2,713         1,080         2,407         3,642         2,226         7         120	Trazodone	12,573	784	1,951	9,722	3,161	8,927	8	382	9,591	2,309	4,157	2,115	453	23
Unknown         90         11         16         60         20         63         1         4         63         10         20         9         2         0           Category total         99,860         13,836         20,025         65,236         35,025         59,186         86         4,517         69,444         22,527         24,466         16,708         4,618         318           Antihistamines         Diphenhydramine: unknown if OTC or Rx         21,684         9,742         3,828         8,006         13,667         7,273         24         613         8,673         4,735         4,014         2,303         358         29           Diphenhydramine: Rx         21,684         9,742         3,828         8,006         13,667         7,273         24         613         8,673         4,735         4,014         2,303         358         29           Diphenhydramine: Rx         225         103         40         81         155         64         0         6         73         63         32         21         0         0           Diphenhydramine: OTC         6,224         2,713         1,687         2,295         6,777         1,123         4         267 <td>Other</td> <td>22,484</td> <td>3,510</td> <td>4,281</td> <td>14,533</td> <td>8,642</td> <td>12,597</td> <td>16</td> <td>1,035</td> <td>15,748</td> <td>5,280</td> <td>5,354</td> <td>3,952</td> <td>1,137</td> <td>66</td>	Other	22,484	3,510	4,281	14,533	8,642	12,597	16	1,035	15,748	5,280	5,354	3,952	1,137	66
Category total       99,80       13,83       20,025       65,236       35,025       59,186       86       4,517       69,444       22,527       24,46       16,708       4,618       318         Antihistamines       Diphenhydramine: unknown if OTC or Rx       21,684       9,742       3,828       8,006       13,667       7,273       24       613       8,673       4,735       4,014       2,303       358       29         Diphenhydramine: Nghenhydramine: OTC       6,224       2,713       1,080       2,407       3,642       2,226       7       120       2,538       1,242       1,170       686       100       5         H2 receptor antagonist       8,201       4,848       879       2,295       6,777       1,123       4       267       1,970       2,345       700       343       73       2         Other       32,773       14,741       7,708       10,164       23,769       7,659       21       1,165       10,865       8,550       4,631       2,206       373       35         Category total       69,107       32,283       13,535       22,953       48,210       18,345       56       2,171       24,119       16,935       10,547	Unknown	90	11	16	60	20	63	1	4	63	10	20	9	2	0
Antihistamines           Diphenhydramine: unknown if OTC or Rx         21,684         9,742         3,828         8,006         13,667         7,273         24         613         8,673         4,735         4,014         2,303         358         29           Diphenhydramine: Rx         225         103         40         81         155         64         0         6         73         63         32         21         0         0           Diphenhydramine: OTC         6,224         2,713         1,080         2,407         3,642         2,226         7         120         2,538         1,242         1,170         668         100         5           H2 receptor antagonist         8,201         4,984         879         2,295         6,777         1,123         4         267         1,970         2,345         70         343         73         2           Other         32,773         14,741         7,708         10,164         23,769         7,659         21         1,165         10,865         8,550         4,631         2,206         373         35           Category total         69,107         32,283         13,505         2,9453         48,210         18,345 <td>Category total</td> <td>99,860</td> <td>13,836</td> <td>20,025</td> <td>65,236</td> <td>35,025</td> <td>59,186</td> <td>86</td> <td>4,517</td> <td>69,444</td> <td>22,527</td> <td>24,446</td> <td>16,708</td> <td>4,618</td> <td>318</td>	Category total	99,860	13,836	20,025	65,236	35,025	59,186	86	4,517	69,444	22,527	24,446	16,708	4,618	318
Diphenhydramine: unknown if OTC or Rx       21,684       9,742       3,828       8,006       13,667       7,273       24       613       8,673       4,735       4,014       2,303       358       29         Diphenhydramine: Nghenhydramine: Rx       225       103       40       81       155       64       0       6       73       63       32       21       0       0         Diphenhydramine: OTC       6,224       2,713       1,080       2,407       3,642       2,226       7       120       2,538       1,242       1,170       686       100       5         H2 receptor antagonist       8,201       4,984       879       2,295       6,777       1,123       4       267       1,970       2,345       700       343       73       2         Other       32,773       14,741       7,708       10,164       23,769       7,659       21       1,165       10,865       8,550       4,631       2,206       373       35         Category total       69,107       32,283       13,535       22,953       48,210       18,345       56       2,171       24,119       16,935       10,547       5,559       904       71	Antihistamines														
unknown if OTC or       Rx       21,684       9,742       3,828       8,006       13,667       7,273       24       613       8,673       4,735       4,014       2,303       358       29         Diphenhydramine: Rx       225       103       40       81       155       64       0       6       73       63       32       21       0       0         Diphenhydramine: OTC       6,244       2,713       1,080       2,407       3,642       2,226       7       120       2,538       1,242       1,170       686       100       5         H2 receptor antagonist       8,201       4,984       879       2,295       6,777       1,123       4       267       1,970       2,345       700       343       73       2         Other       32,773       14,741       7,708       10,164       23,769       7,659       21       1,165       10.855       8,550       4,631       2,206       373       355         Category total       69,107       32,283       13,555       22,953       48,210       18,345       56       2,171       24,119       16,935       10,547       5,559       904       71         Antimicrobi	Diphenhydramine:														
Rx       21,684       9,742       3,828       8,006       13,667       7,273       24       613       8,673       4,735       4,014       2,303       358       29         Diphenhydramine: Rx       225       103       40       81       155       64       0       6       73       63       32       21       0       0         Diphenhydramine: OTC       6,224       2,713       1,080       2,407       3,642       2,226       7       120       2,538       1,242       1,170       686       100       5         H2 receptor antagonist       8,201       4,984       879       2,295       6,777       1,123       4       267       1,970       2,345       700       343       73       2         Other       32,773       14,741       7,708       10,164       23,769       7,659       21       1,165       10,865       8,550       4,631       2,206       373       35         Category total       69,107       32,283       13,535       22,953       48,210       18,345       56       2,171       24,119       16,935       10,547       5,559       904       71         Antimicrobials       S <t< td=""><td>unknown if OTC or</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	unknown if OTC or														
Diphenhydramine: Rx       225       103       40       81       155       64       0       6       73       63       32       21       0       0         Diphenhydramine: OTC       6,224       2,713       1,080       2,407       3,642       2,226       7       120       2,538       1,242       1,170       686       100       5         H2 receptor antagonist       8,201       4,984       879       2,295       6,777       1,123       4       267       1,970       2,345       700       343       73       2         Other       32,773       14,741       7,708       10,164       23,769       7,659       21       1,165       10,865       8,550       4,631       2,206       373       35         Category total       69,107       32,283       13,535       22,953       48,210       18,345       56       2,171       24,119       16,935       10,547       5,559       904       71         Antimicrobials       Systemic       38,503       18,184       6,603       13,507       28,157       5,177       21       5,032       7,949       6,436       4,102       1,511       239       11         Topic	Rx	21,684	9,742	3,828	8,006	13,667	7,273	24	613	8,673	4,735	4,014	2,303	358	29
Diphenhydramine: OTC       6,224       2,713       1,080       2,407       3,642       2,226       7       120       2,538       1,242       1,170       686       100       5         H2 receptor antagonist       8,201       4,984       879       2,295       6,777       1,123       4       267       1,970       2,345       700       343       73       2         Other       32,773       14,741       7,708       10,164       23,769       7,659       21       1,165       10,865       8,550       4,631       2,206       373       35         Category total       69,107       32,283       13,535       22,953       48,210       18,345       56       2,171       24,119       16,935       10,547       5,559       904       71         Antimicrobials       Antibiotics       Systemic       38,503       18,184       6,603       13,507       28,157       5,177       21       5,032       7,949       6,436       4,102       1,511       239       11         Topical       8,221       6,216       542       1,423       7,954       80       3       180       230       1,284       412       40       2       0	Diphenhydramine: Rx	225	103	40	81	155	64	0	6	73	63	32	21	0	0
H2 receptor antagonist       8,201       4,984       879       2,295       6,777       1,123       4       267       1,970       2,345       700       343       73       2         Other       32,773       14,741       7,708       10,164       23,769       7,659       21       1,165       10,865       8,550       4,631       2,206       373       35         Category total       69,107       32,283       13,535       22,953       48,210       18,345       56       2,171       24,119       16,935       10,547       5,559       904       71         Antimicrobials       Antibiotics       Systemic       38,503       18,184       6,603       13,507       28,157       5,177       21       5,032       7,949       6,436       4,102       1,511       239       11         Topical       8,221       6,216       542       1,423       7,954       80       3       180       230       1,284       412       40       2       0         Unknown       593       148       167       274       287       174       1       130       216       102       115       29       5       0	Diphenhydramine: OTC	6,224	2,713	1,080	2,407	3,642	2,226	7	120	2,538	1,242	1,170	686	100	5
Other         32,773         14,741         7,708         10,164         23,769         7,659         21         1,165         10,865         8,550         4,631         2,206         373         35           Category total         69,107         32,283         13,535         22,953         48,210         18,345         56         2,171         24,119         16,935         10,547         5,559         904         71           Antimicrobials         Antibiotics         Systemic         38,503         18,184         6,603         13,507         28,157         5,177         21         5,032         7,949         6,436         4,102         1,511         239         11           Topical         8,221         6,216         542         1,423         7,954         80         3         180         230         1,284         412         40         2         0           Unknown         593         148         167         274         287         174         1         130         216         102         115         29         5         0	H2 receptor antagonist	8,201	4,984	879	2,295	6,777	1,123	4	267	1,970	2,345	700	343	73	2
Category total         69,107         32,283         13,535         22,953         48,210         18,345         56         2,171         24,119         16,935         10,547         5,559         904         71           Antimicrobials Antibiotics         Systemic         38,503         18,184         6,603         13,507         28,157         5,177         21         5,032         7,949         6,436         4,102         1,511         239         11           Topical         8,221         6,216         542         1,423         7,954         80         3         180         230         1,284         412         40         2         0           Unknown         593         148         167         274         287         174         1         130         216         102         115         29         5         0	Other	32,773	14,741	7,708	10,164	23,769	7,659	21	1,165	10,865	8,550	4,631	2,206	373	35
Antimicrobials           Antibiotics           Systemic         38,503         18,184         6,603         13,507         28,157         5,177         21         5,032         7,949         6,436         4,102         1,511         239         11           Topical         8,221         6,216         542         1,423         7,954         80         3         180         230         1,284         412         40         2         0           Unknown         593         148         167         274         287         174         1         130         216         102         115         29         5         0	Category total	69,107	32,283	13,535	22,953	48,210	18,345	56	2,171	24,119	16,935	10,547	5,559	904	71
Antibiotics           Systemic         38,503         18,184         6,603         13,507         28,157         5,177         21         5,032         7,949         6,436         4,102         1,511         239         11           Topical         8,221         6,216         542         1,423         7,954         80         3         180         230         1,284         412         40         2         0           Unknown         593         148         167         274         287         174         1         130         216         102         115         29         5         0	Antimicrobials														
Systemic38,50318,1846,60313,50728,1575,177215,0327,9496,4364,1021,51123911Topical8,2216,2165421,4237,9548031802301,2844124020Unknown59314816727428717411302161021152950	Antibiotics														
Topical8,2216,2165421,4237,9548031802301,2844124020Unknown59314816727428717411302161021152950	Systemic	38,503	18,184	6,603	13,507	28,157	5,177	21	5,032	7,949	6,436	4,102	1,511	239	11
Unknown 593 148 167 274 287 174 1 130 216 102 115 29 5 0	Topical	8,221	6,216	542	1,423	7,954	80	3	180	230	1,284	412	40	2	0
	Unknown	593	148	167	274	287	174	1	130	216	102	115	29	5	0

TABLE 22B.	Demographic Profile of Exposur	e Cases by Generic	Category of Substances	and Products: Pharmac	euticals (Continued)

	No. 1	Age			Rea	son		Treated in Health			Outcome	utcome		
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Antifungals														
Systemic	1,393	680	168	536	1,073	115	1	200	342	322	121	74	16	1
Topical	8,120	6,158	378	1,556	7,884	67	15	150	336	1,349	534	47	3	0
Unknown	21	8	2	11	19	0	0	1	7	3	3	4	0	0
Anthelmintics														
Diethylcarbamazine	109	64	6	38	108	1	0	0	6	22	2	0	0	0
Piperazine	420	315	41	61	401	14	1	2	68	141	23	6	0	0
Other	917	565	90	260	866	13	0	34	128	225	91	27	3	0
Antiparasitias	17	10	2	5	15	2	U	0	4	3	3	U	0	0
Antiparasilics	561	130	81	335	403	08	1	56	262	150	67	56	10	1
Metronidazole	1 406	366	169	859	855	280	0	268	370	259	201	63	8	0
Other	73	37	10	26	65	200	0	4	18	16	6	2	1	0
Antituberculars		0.		20		·	0	·			Ū	-	•	Ū
Isoniazid	415	69	175	171	173	187	0	47	295	106	54	54	90	0
Rifampin	73	18	6	49	36	13	0	23	30	14	11	10	5	0
Other	23	2	0	21	5	4	0	13	12	2	4	2	2	0
Antivirals														
Amantadine	90	21	15	53	55	27	0	8	44	19	15	15	4	0
Anti-influenza agent:														
other	190	62	27	100	146	25	0	17	48	44	16	14	0	0
Antiretroviral	729	153	39	532	374	262	2	85	417	180	118	87	31	0
Systemic	948	296	127	521	644	1/6	0	121	306	197	98	73	11	1
I opical	188	71	31	85	174	1	0	13	9	24	17	3	0	0
Othor	179	105	12	97	150	42	0	25	10	20	29	14	2	1
	109	120	13	7	150	4	0	2	19	50	10	1	0	0
Category total	63 372	33 764	8 723	20 558	49 972	6 769	45	6.418	11 186	10 986	6 053	2 137	434	15
	1 172	232	82	839	869	71	1	222	533	230	147	119	35	3
Antineoplastics	1,172	232	02	039	809	71	I	222	555	230	147	119	35	3
Asthma therapies	7 004	F 400	070	070	0.070	000		000	4 0.07	1 007	000	070		0
Albuterol	1,001	5,420	8/6	679 757	0,370	333	17	200	1,307	1,937	160	372	11	0
Terbutaline and other	1,030	170	94	757	000	257	0	00	565	202	102	242	39	0
beta-2 agonist	2,761	1,308	577	866	2,443	171	6	138	383	656	306	119	11	0
Other beta agonist	608	160	187	258	531	43	0	33	194	94	183	72	4	0
Leukotriene antagonist/	0.440	0.004	1 0 10	000	0.000	010	0	07	4 4 4 7	0 507	000	00	10	0
Innibitor	8,419	6,694	1,049	660	8,033	312	0	67	1,147	2,597	282	89	18	2
Unknown	624	321	70	228	10	62	1	47	121	150	50	40	4	0
	19	ۍ 14 076	0	0 2.456	10 570	9 1 1 0 7	24	627	0 2 745	5640	1 006	4	0	10
Category total	20,402	14,070	2,001	3,450	10,572	1,107	24	037	3,745	5,049	1,000	930	07	10
Cardiovascular drugs														
ACE inhibitor	10,988	3,776	671	6,491	8,820	1,799	6	332	4,120	3,938	890	887	164	19
Alpha blocker	1,555	407	68	1,067	1,224	232	1	86	875	522	170	176	26	4
Angiotensin receptor	0.400	4 000	107	0.000	0.000	000		447	4 404	4 405	054	004	10	0
	3,408	1,002	187	2,206	2,883	399	1	117	1,134	1,195	251	221	48	3
Antiarmythmic: other	5.049	1 964	38	2 903	1,019	99	0	261	401	420	82 254	83 250	37	4
Antihyperipidemic	5,040 1 387	1,004	275	2,091	4,209	202	1	201	636	1,300	102	200	10	1
Beta blocker	14 113	3 501	1 056	9.485	10 584	3 053	10	302	6 862	5 097	1 2 2 5	1 582	201	30
Calcium antagonist	9 585	2 256	514	6 781	7 437	1 853	4	245	4 919	3 4 9 4	815	1,002	365	68
	2 923	753	128	2 035	2 297	256	0	333	1 469	916	217	489	154	13
Clonidine	5.222	1.638	1.732	1.828	3.620	1.404	7	145	3.212	1.205	1.192	1.080	171	6
Hvdralazine	212	56	16	137	167	43	0	1	103	81	21	28	2	0
Long-acting nitrate	800	252	21	523	691	92	0	16	307	307	68	83	10	1
Nitroglycerin	2,146	1,157	84	892	1,793	285	4	59	703	937	168	126	22	5
Nitroprusside	41	3	2	34	16	0	0	24	38	7	2	7	2	0
Vasodilator:	350	121	19	202	282	20	1	97	110	110	2/	22	٥	1
Vasopressor	5	1	1	3	3	03	0	21	2	0	2	1	0 0	0
Other	2 028	705	158	1 152	1 700	225	n	ے 01	ے 570	500	152	120	20	10
Unknown	2,020 68	17	1.50 Q	/12	31	223	n	ر د د	42	16	10	123	0	0
Category total	61 056	18.222	5,403	37,150	47,911	10.574	36	2,229	26,716	20,586	5.848	6,456	1.529	181
Cold and course	0.,000	,	0,400	0.,100	,011		50	2,220	20,710	20,000	0,010	0,100	.,520	
preparations	100,612	62,107	21,496	16,739	82,183	15,021	52	3,090	22,704	22,782	14,564	4,719	320	22
Diagnostic agents	486	76	48	359	392	12	0	79	210	59	104	32	7	0

TABLE 22B.	Demographic Profile of	of Exposure Cases b	v Generic Categor	v of Substances and I	Products: Pharmaceuticals ((	Continued)
			,			/

			Age			Rea	ison		Treated in Health	Treated in Health Care		Outcome		
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Dietary supplements/ herbals/ homeopathic														
Amino acids														
Creatine	262	67	64	130	139	44	1	75	129	33	32	38	2	0
Other amino acid														
dietary supplement	208	121	27	58	166	20	0	20	47	40	15	6	3	0
Cultural medicines														
Ayurvedic	5	1	0	3	3	1	0	1	1	3	1	1	0	0
Asian	106	33	13	56	76	7	0	21	45	18	23	7	1	0
Hispanic	4	2	0	2	2	1	0	1	2	1	0	0	0	0
Other	37	10	3	24	18	10	2	1	22	0	10	1	2	0
Botanical products						_					-		-	
Blue cohosh	1	0	1	0	1	0	0	0	0	0	0	0	0	0
Ginkgo biloba	290	140	38	109	195	41	0	50	91	69	31	12	4	0
Echinacea	473	322	48	101	385	29	0	58	08	116	29	12	2	0
Ginseng	393	183	/1	135	244	87	1	60	131	90	59	33	5	0
Kava kava	257	79	38	137	135	80	U	39	129	50	39	32	э	U
(single ingredient)	1.556	457	316	775	759	540	0	248	843	337	352	274	20	1
Citrus aurantium	.,						-							
(single ingredient)	4	3	0	1	3	1	0	0	3	2	0	1	0	0
St. John's wort	313	133	55	123	198	76	0	38	116	93	44	22	1	0
Valerian	282	78	47	153	136	89	3	46	131	63	57	25	3	0
Yohimbe	117	16	8	91	53	20	0	43	73	13	22	35	3	0
Multi-botanical with														
ma huang	8,770	2,616	2,405	3,690	4,085	3,430	12	1,180	4,827	1,887	2,049	1,531	88	2
Multi-botanical without														
aurantium	1.058	524	140	391	703	182	1	165	335	263	152	72	5	0
Multi-botanical with	.,												-	-
citrus aurantium	40	18	6	16	28	7	0	5	14	16	7	3	1	0
Other single ingredient														
botanical	1,633	819	121	684	1,200	138	7	275	408	295	192	79	11	0
Homeopathic	4,766	4,217	196	346	4,420	174	4	159	499	1,193	181	51	1	0
Hormonal products			_			_		_			_	_		
Androgen/precursor	24	6	7	11	10	7	0	7	14	4	3	5	2	0
Phytoestrogen	112	45	7	60	69	14	0	27	38	11	18	9	0	0
Glandular	28	11	4	12	19	1	0	(	(	5	2	3	0	0
Melatonin	53	22	15	15	35	15	0	3	20	14	10	1	1	0
Other dietary														
Blue-green algae	58	26	8	24	49	3	0	6	14	3	9	3	2	0
Glucosamine (with or	00	20	0	21	10	Ŭ	0	Ŭ	14	Ŭ	Ŭ	0	-	0
without														
chondroitin)	132	85	13	34	111	12	0	9	20	32	7	6	0	0
Other single ingredient					100					~ ~ ~		10		
non-botanical	139	67	16	56	100	15	1	22	44	24	16	12	1	0
Unknown supplement/	1 807	689	347	755	1 073	410	7	287	748	328	275	196	32	1
Category total	22,928	10.790	4.014	7.992	14.415	5.454	39	2.853	8.831	5.009	3.635	2.470	195	4
outogoly total	22,020		.,	.,002	,	0,101		2,000	0,001	0,000	0,000	2,0		•
Diuretics														
Furosemide	2,734	994	155	1,579	2,274	350	0	96	999	833	324	219	49	5
Thiazide	2,457	885	195	1,370	1,896	484	1	66	948	743	248	202	49	3
Other	2,307	830	169	1,296	1,849	339	0	102	777	698	237	158	31	0
Unknown	330	118	26	185	235	53	3	35	140	86	35	52	8	0
Category total	7,828	2,827	545	4,430	6,254	1,226	4	299	2,864	2,360	844	631	137	8
Electrolytes and minerals														
Calcium	3 917	2 790	303	687	3 662	155	Δ	84	300	878	182	61	11	0
Chromium trivalent	278	52	35	187	274	0	-	4	75	26	.36	4	2	0
Colloidal silver	210	1	0	1	1	0	0	1	, 0	0	0	1	0	0
Fluoride	3,730	3.273	320	134	3,651	38	2	36	169	911	274	7	n	ñ
Iron	3,833	2,157	511	1,137	3,073	547	36	163	1,181	1.070	412	, 140	19	4
Magnesium	794	300	119	371	664	49	17	58	179	212	71	37	10	0
Potassium	1.895	689	150	1.048	1.566	246	4	72	617	590	183	111	20	1
Selenium	,	0	0	1		0	0	0	0	0	0	0	0	0
Sodium	2,509	1,536	559	400	2,292	161	31	23	276	513	353	35	- 1	0
Zinc	1,570	900	136	512	1,443	45	3	71	202	314	205	42	4	0
Multi-mineral dietary														
supplement	58	39	2	17	49	3	2	3	9	12	2	2	0	0

TABLE 22B.	Demographic Profile of Exposur	e Cases by Generic	Category of Substances	and Products: Pharmac	euticals (Continued)

		Age Reason					Treated in Health	l Outcome						
	No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Multi-mineral, multi- herbal dietary							_						_	
supplement	177	96	22	58	120	27	0	29	52	28	25	17	0	0
Other	515	328	53	131	409	48	3	53	114	133	46	12	2	0
Unknown	8	7	0	1	8	0	0	0	1	3	1	0	0	0
Category total	19,287	12,168	2,300	4,685	17,213	1,319	102	597	3,275	4,690	1,790	469	69	5
Eye/ear/nose/throat prepa Nasal preparations	rations													
Tetrahydrozoline	62	49	4	9	59	1	2	0	18	31	8	1	1	0
Other decongestant	2,095	940	255	890	1,886	81	6	118	308	619	323	52	4	0
Other	609	370	42	193	585	7	1	14	42	88	83	13	0	0
Unknown	16	4	1	11	13	0	0	3	4	3	3	0	0	0
Ophthalmic preparations														
Contact lens product	3,274	1,847	293	1,122	3,209	35	5	23	429	381	588	119	3	0
Glaucoma therapy	164	47	6	111	136	5	0	22	43	31	23	11	1	0
Tetrahydrozoline	1,335	881	154	287	1,166	65	84	11	362	606	127	17	2	0
Other sympathomimetic	647	276	89	271	512	39	40	55	161	203	90	24	2	0
Other	1,434	749	151	515	1,316	30	11	75	176	196	159	52	4	0
Unknown	41	12	10	15	24	3	4	8	10	7	12	2	0	0
Otic preparations					- ·	÷				•		-		-
Combination product	1,141	764	126	241	1,120	6	5	9	84	304	287	9	0	0
Other	2 623	1 235	249	1 123	2 589	20	4	10	272	368	715	57	0	0
Unknown	35	11		20	35	_0	0	0	3	4	10	1	0	0
Steroid, topical for eye/	475	200	69	204	437	8	1	29	28	58	102	5	1	0
Throat preparations		200		201	101	Ū		20	20			Ū		Ū
Lozenge without local anesthetic	785	606	79	98	742	24	0	17	40	130	47	2	0	0
anesthetic	259	145	62	50	225	20	2	12	26	63	25	2	0	0
Other	351	198	87	66	302	25	5	18	71	105	46	5	1	0
Unknown	9	2	4	3	6	1	1	1	0	0	5	1	0	0
Category total	15,355	8,336	1,684	5,229	14,362	370	171	425	2,077	3,197	2,653	373	19	0
Gastrointestinal preparatio	ons													
Salicvlate-containing	2.525	1.964	218	339	2.284	96	1	138	241	610	102	26	3	0
Proton pump inhibitor	5.470	2,154	453	2.829	4.085	1.070	1	296	1.649	1.445	527	326	92	6
Other	18.073	16,286	755	988	17.644	269	21	131	536	2.612	433	79	9	0
Antidiarrheals	,	,			,					_,			-	-
Diphenoxylate/atropine	513	192	62	256	319	157	1	30	334	164	80	51	19	3
Loperamide	1 066	563	137	364	859	132	2	72	322	370	114	41	.0	0
Non-onioid	430	348	.30	52	402	14	1	12	32	77	12	2	0	0
Paregoric	29	18	3	8	23	5	0	1	10	8	6	2	0	0
Other opioid	20	1	0	1	20	0	0	0	0	0	0	0	0	0
Antispasmodics	<u> </u>		0		-	Ū	0	Ŭ	0	Ũ	0	U	Ũ	0
Anticholinergic	1 109	329	184	590	612	420	1	66	611	294	213	172	27	1
Other	126	41	16	69	76	.20	0	15	61	32	24	7	7	0
Laxative	13 614	9 251	1 307	3 011	12 099	880	194	410	1 721	2 175	1 757	219	30	1
Other	10,160	7 653	536	1 937	9 100	634	7	402	1,566	2 141	584	331	53	5
Unknown	48	17	3	28	24	17	1	5	19	_,8	8	2	0	0
Category total	53,165	38,817	3,704	10,472	47,529	3,728	230	1,578	7,102	9,936	3,860	1,258	249	16
Hormones and hormone antagonists														
Androgen	599	233	60	302	370	158	1	66	202	119	71	38	6	1
Corticosteroid	12,145	6,842	1,463	3,784	10,407	593	16	1,097	1,552	1,841	784	454	93	2
Estrogen	4,124	2,595	195	1,328	3,670	342	1	106	785	943	238	141	33	1
Insulin	2,446	120	137	2,163	1.839	464	14	98	973	742	134	487	65	4
Oral contraceptive	10.602	8.603	1.020	936	9,742	593	11	248	931	1.858	362	50	4	0
Oral hypoalvcemics	.,	.,	,		· ,· ·=					,			-	-
Biguanide	3 374	761	289	2 312	2 563	655	3	139	1 413	1 157	316	310	61	14
Sulfonvlurea	3 964	1 498	208	2 241	3 079	708	2	146	2 645	1 669	273	758	129	4
Thiszolidinedione	1 205	527	200	605	1 056	188	0	46	500	560	270	120	22	2
Other/unknown	1,235	160	24	033	1,000	70	1	40	260	101	20	75	10	<u>د</u> م
Progestin	1 204	707	24 151	500	1 1 7 5	110	۱ م	105	202	201	2ສ ອບ	20	10	0
Selectivo ostrocos	1,394	121	101	500	1,175	112	U	105	200	291	02	30	10	U
receptor modulator	680	263	35	381	607	40	0	29	147	207	44	28	6	0
Thyroid preparation	9.438	4.730	720	3.959	8.418	855	3	143	1.899	2.018	488	303	59	5
Other hormone	2,098	986	442	662	1,578	399	6	108	570	541	248	80	7	0
	· · · · · · · · · · · · · · · · · · ·													

Heroin

LSD

1,990

1,774

1,751

1,800

	No. of Exposures	Age Reason					Treated in Health	Outcome						
		<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Other hormone antagonist	481	194	52	232	405	48	0	24	109	120	31	14	2	0
Unknown hormone or	18	5	1	10	11	6	0	1	6	3	1	1	1	٥
Category total	53 072	28 247	4 867	19 742	45 252	5 233	58	2 363	12 346	12 269	3 194	2 892	508	33
oalegory total	50,072	20,241	4,007	13,142	40,202	0,200	00	2,000	12,040	12,205	0,104	2,002	000	00
Miscellaneous drugs														
Allopurinol	427	211	20	196	363	45	0	19	143	145	27	26	5	0
Disulfiram	420	14	16	376	107	228	5	72	223	46	96	65	9	2
L-dopa and related drug	940	254	19	663	807	86	0	42	320	255	111	84	12	2
Ergot alkaloid	348	148	45	154	219	87	0	40	213	124	57	29	6	0
Neuromuscular blocking	12	1	1	8	6	з	0	з	8	2	0	з	1	0
Nicotine pharmaceutical	808	320	79	404	557	72	1	176	168	185	137	53	1	0
Other	17 261	7 226	1 841	8 076	14 031	1 741	72	1 337	4 508	3 821	2 671	1 002	176	8
Category total	20,216	8,174	2,021	9,877	16,090	2,262	78	1,689	5,583	4,578	3,099	1,262	210	12
	-, -	- /		- , -	-,	, -		,	-,		.,	, -		
Muscle relaxants														
Carisoprodol (formulated	7 364	334	790	6 1 7 6	1 5 1 2	5 574	4	150	5 847	827	2 593	1 445	388	27
Cyclobenzaprine	5 769	915	836	3 963	2 059	3 468	5	173	4 031	1 082	1 614	1,440	262	13
Methocarbamol	1 427	154	227	1 035	502	835	1	71	920	270	370	184	40	2
Other	5.268	884	615	3,725	2.174	2.677	2	334	3.327	1.055	1.222	889	301	9
Unknown	188	11	47	127	25	156	0	5	140	29	56	17	5	1
Category total	20,016	2,298	2,515	15,026	6,272	12,710	12	733	14,265	3,263	5,855	3,542	996	52
Narcotic antagonists	317	14	26	272	91	161	2	52	227	37	72	72	13	0
Radiopharmaceuticals	18	2	1	14	9	0	0	9	5	2	4	0	0	0
Sedative/hypnotics/ antipsychotics														
Atypical antipsychotic	25,252	1,873	5,525	17,681	7,659	16,374	27	912	19,291	4,173	7,228	5,710	1,448	78
Long-acting	2 942	599	258	2 058	1 604	1 198	9	67	1 654	537	602	463	182	11
Short/intermediate-	2,042	000	200	2,000	1,004	1,100	0	01	1,004	001	002	100	102	
acting	588	36	90	454	181	373	1	17	445	71	194	109	42	8
Unknown type	43	4	1	37	9	30	0	1	40	1	14	17	3	2
Benzodiazepine	58,797	5,524	6,347	46,316	14,321	42,108	295	1,273	44,153	8,915	19,481	9,684	2,601	207
Buspirone	2,542	302	345	1,873	938	1,454	3	115	1,693	536	678	355	82	7
Chloral hydrate	247	74	34	137	97	119	1	27	181	23	91	52	17	4
Ethchlorvynol	12	4	1	7	7	5	0	0	5	1	2	2	1	0
Glutethimide	1	0	0	1	0	1	0	0	1	0	0	0	0	0
Meprobamate	127	10	10	106	39	80	0	3	96	18	30	33	13	3
Methaqualone	19	0	3	15	1	17	0	0	14	0	7	4	0	0
Phenothiazine	5,224	808	691	3,691	2,282	2,423	10	417	3,441	985	1,168	1,094	254	11
Sleep aid (UTC)	1,062	89	1/4	10 001	229	812	10	10	790	1/6	301	216	30	1
Unler	13,835	922	2,118	10,081	3,000	9,374	12	631	10,099	2,041	4,729	2,298	509	32
Category total	111,001	9 10,254	46 15,643	242 84,084	45 31,068	239 74,607	372	3,479	82,144	29 17,506	34,596	20,100	5,193	364
Serums, toxoids, vaccines	2,082	464	267	1,311	1,522	10	4	536	616	173	440	103	10	1
Stimulants and street														
Amphetamine	11 392	3 1 1 4	5 007	3 199	7 140	3 647	54	428	5 844	2 668	2 245	1 757	237	21
Amyl/butyl nitrite	88	11	13	61	39	45	3	0	42	11	15	9	207	0
Caffeine	4.836	809	2.225	1.764	1.832	2.644	19	300	2.250	548	1.248	810	23	4
Cocaine	6.869	85	797	5.881	559	6.032	43	41	6.141	783	1.430	2.206	625	91
Diet aids	-,			-,		-,			-,		.,	_,		
Phenylpropanolamine	193	58	46	87	97	84	0	11	111	55	40	29	5	0
Phenylpropanolamine														
and caffeine	33	8	8	16	12	17	0	4	13	5	7	4	0	0
Other: OTC	253	74	67	111	125	85	0	43	127	47	47	34	1	0
Other: Rx	62	13	19	30	24	26	1	11	41	8	16	11	2	0
Unknown	140	27	50	62	44	79	0	16	96	32	38	22	0	0
Ephedrine	1,923	430	414	1,064	721	1,068	4	111	1,188	338	421	385	35	4
GHB and analog/	1 000	10	005	1 00 4	454	000	000	10		~~	004	407	070	~
precursor Hallucinogenic	1,386	12	265	1,084	154	883	263	13	1,181	30	264	487	212	3
amphetamine	2,185	23	858	1,258	246	1.752	127	30	1.751	116	443	723	143	15

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

TABLE 22B.	Demographic Profile of Exposu	re Cases by Generic	c Category of Substance	es and Products: Pha	armaceuticals (Continued)
		· · · · · · · · · · · · · · ·			

	No. of Exposures		Age			Rea	son		Treated in Health		Outcome			
		<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
Marijuana	3,711	125	1,542	2,002	489	3,018	66	56	2,973	316	1,005	998	256	28
Mescaline/peyote	118	18	29	69	79	37	0	1	49	6	21	21	5	0
Methamphetamine	2,454	93	429	1,884	378	1,949	55	12	1,929	140	435	742	132	18
Methylphenidate	6,513	1,324	3,667	1,495	4,508	1,734	7	222	2,712	1,616	1,104	763	66	3
Phencyclidine	918	16	286	605	100	739	25	7	825	41	215	367	96	6
Phenylpropanolamine														
look-alike drug	5	0	4	1	1	4	0	0	4	0	3	1	0	0
Other stimulant	124	17	29	77	28	86	0	9	85	13	20	31	5	0
Other hallucinogen	68	0	38	28	7	58	0	1	64	0	13	41	5	0
Unknown hallucinogen	8	0	5	3	1	4	3	0	5	0	0	0	1	0
Other stimulant/street		-									_	10		
arug	45	5	15	25	11	29	1	3	31	8	1	10	1	0
Unknown stimulant/	273	16	96	156	30	100	33	11	201	18	56	65	18	0
Category total	273 45 795	6 28/	90 16 186	22 844	16 801	26 124	707	13/0	201	6 973	0 /05	10 208	2 220	242
Calegory lotal	45,795	0,204	10,100	22,044	10,001	20,124	121	1,349	29,012	0,973	9,495	10,200	2,220	242
Topical preparations														
Acne preparation	2,947	1,776	580	578	2,772	77	2	94	198	591	373	33	2	0
Boric acid/borate	196	103	10	81	185	4	3	4	24	44	19	3	0	0
Calamine	3,003	2,139	186	666	2,972	19	1	11	140	513	170	5	0	0
Camphor	8,817	6,852	526	1,426	8,589	158	13	51	922	2,774	1,103	77	9	1
Camphor/methyl							-					-		-
salicylate	1,825	1,569	80	1/2	1,791	6	2	25	167	627	251	9	0	0
Diaper care/rash product	50,262	48,456	650	1,066	50,205	34	3	15	450	6,514	824	19	1	0
Hexachlorophene	103	77	6	20	99	1	0	3	12	20	14	1	0	0
Hydrogen peroxide	8 222	3 282	751	4 156	8 029	133	15	37	439	997	1 067	57	3	0
lodine or iodide	0,222	0,202	101	4,100	0,020	100	10	01	-100	007	1,007	01	Ũ	0
antiseptic	1,646	568	308	742	1,389	165	18	66	419	361	362	50	5	0
Mercury antiseptic	197	139	19	39	175	14	0	8	21	56	11	3	0	0
Methyl salicylate	10.104	7.954	726	1.397	9.933	72	17	77	891	2.344	1.923	64	7	1
Minoxidil	46	27	1	18	40	1	0	5	14	17	4	2	0	0
Podophyllin	63	14	9	38	46	9	0	8	19	9	16	3	0	0
Silver nitrate	206	32	86	84	178	7	2	17	40	13	59	11	0	0
Topical steroid	7,758	5,599	522	1,614	7,616	39	3	95	168	990	365	26	2	0
Wart preparation	1,620	1,073	190	353	1,547	35	5	33	213	365	283	35	1	0
Topical steroid with														
antibiotic	1,407	1,084	93	221	1,377	9	1	20	55	245	97	8	0	0
Other liniment	2,794	1,743	173	863	2,580	21	3	188	206	544	609	30	3	0
Other topical antiseptic	4,599	3,483	344	757	4,400	101	12	81	414	1,143	497	40	3	0
Category total	105,815	85,970	5,260	14,291	103,923	905	100	838	4,812	18,167	8,047	476	36	2
Veterinary drugs	3,382	1,378	252	1,719	3,247	40	15	78	345	799	569	73	1	0
Vitamins														
Multiple vitamin tablets: adult formulations														
No iron, no fluoride	2,873	1,793	307	760	2,445	222	3	200	379	579	224	56	5	0
With iron, no fluoride	6,757	4,680	554	1,508	6,073	560	2	116	974	1,739	351	92	9	1
With iron carbonyl (no														
fluoride)	56	46	1	9	52	3	0	0	7	21	1	1	0	0
With iron, with fluoride	87	59	13	15	76	6	0	4	12	17	8	0	1	0
No iron, with fluoride	33	27	5	1	31	2	0	0	1	5	1	1	0	0
Multiple vitamin tablets: pediatric formulations														
No iron no fluoride	7 795	6 774	952	50	7 642	136	2	13	213	1 4 1 9	167	5	0	0
With iron, no fluoride	18.420	16.693	1.602	105	18.175	216	- 3	23	1.392	4.558	661	33	n n	ñ
With iron carbonyl (no	. 3, 120	. 0,000	.,002	100	,	2.0	0	20	.,002	.,000	501	00	5	Ũ
fluoride)	16	14	2	0	16	0	0	0	1	4	0	0	0	0
With iron, with fluoride	371	348	22	0	369	2	0	0	34	73	15	2	0	0
No iron, with fluoride	1,405	1,348	53	3	1,396	8	1	0	36	246	20	0	0	0
Multiple vitamin liquids: adult formulations	,													
No iron, no fluoride	130	76	19	35	100	18	0	12	33	38	16	3	1	0
With iron, no fluoride	213	116	16	81	187	18	0	8	30	44	14	6	0	0
With iron, with fluoride	6	6	0	0	6	0	0	0	0	1	0	0	0	0
No iron, with fluoride	177	173	4	0	177	0	0	0	4	30	0	0	0	0

No. of Basic Sources          6         6-19         >19         Unit         It         Other         Adv Ro         Facility         None         Minor         Moderate         Major         Decision           Multiple vitamin liquids: pediatric formulations         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -				Age			Rea	son		Treated in Health			Outcome		
Multiple vitamin liquids: pormulations         Moliron, no fluoride         285         257         24         4         278         3         0         4         8         64         11         0         0           No iron, no fluoride         576         558         15         3         566         4         0         6         43         121         31         2         0           With iron, no fluoride         80         77         2         1         79         1         0         2         20         3         0         0           Multiple vitamins, unspecified adult formulations         116         17         44         9         0         10         13         10         8         2         0           With iron, no fluoride         1,823         1,210         185         422         1,583         194         144         345         501         119         32         6         0         0         0         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		No. of Exposures	<6	6-19	>19	Unint	Int	Other	Adv Rxn	Care Facility	None	Minor	Moderate	Major	Death
No iron, no fluoride         285         257         24         4         278         3         0         4         8         64         11         0         0           With iron, no fluoride         576         558         15         3         566         44         0         6         43         121         31         2         0           With iron, with fluoride         431         416         11         3         427         3         0         1         16         72         5         0         0           No iron, no fluoride         1823         1,210         185         422         1,583         194         1         44         345         501         119         32         6           With iron, no fluoride         1,823         1,210         185         422         1,583         194         1         44         345         501         119         32         6           With iron, no fluoride         12         2         3         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Multiple vitamin liquids: pediatric formulations														
With iron, no fluoride         578         15         3         566         4         0         6         43         121         31         2         0           With iron, with fluoride         431         416         11         3         427         3         0         1         16         72         5         0         0           Multiple vitamins, unspecified adult from, with fluoride         633         30         16         17         44         9         0         10         13         10         8         2         0           With iron, with fluoride         18         2         3         22         1         0         0         3         6         3         0         0           With iron, with fluoride         28         2         1         0         28         0         0         0         11         19         22         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	No iron, no fluoride	285	257	24	4	278	3	0	4	8	64	11	0	0	0
With iron, with fluoride         430         77         2         1         79         1         0         0         2         20         3         0         0           No iron, with fluoride         431         11         3         427         3         0         16         72         5         0         0           Multiple vitamins, unspecified adult formulations         50         10         155         422         1,583         194         1         44         345         501         119         32         6           With iron, no fluoride         1,823         1,210         185         422         1,583         194         1         44         345         501         119         32         6           With iron, with fluoride         28         27         1         0         22         10         0         3         0         0         0         0         11         29         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td>With iron, no fluoride</td><td>576</td><td>558</td><td>15</td><td>3</td><td>566</td><td>4</td><td>0</td><td>6</td><td>43</td><td>121</td><td>31</td><td>2</td><td>0</td><td>0</td></td<>	With iron, no fluoride	576	558	15	3	566	4	0	6	43	121	31	2	0	0
No iron, with fluoride         431         416         11         3         427         3         0         1         16         72         5         0         0           Multiple vitamins, unspecified adult romulations         -         -         -         -         -         -         -         -         -         -         0         10         13         10         8         2         0         0           With iron, no fluoride         1.823         1.210         1.85         4.22         1.583         194         1         4.44         345         501         119         32         6           With iron, no fluoride         2.8         2.7         1         0         2.8         0         0         0         0         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>With iron, with fluoride</td> <td>80</td> <td>77</td> <td>2</td> <td>1</td> <td>79</td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> <td>20</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td>	With iron, with fluoride	80	77	2	1	79	1	0	0	2	20	3	0	0	0
Multiple vitamins, unspecified adult formulations         No iron, no fluoride         63         3.0         1.6         1.7         4.4         9         0         10         1.3         1.0         8         2         0           With iron, no fluoride         1.823         1.210         185         422         1.583         194         1         44         345         501         119         32         6           With iron, no fluoride         2.8         2.7         1         0         28         0         0         0         0         2         0         0         0           Multiple vitamins, unspecified pediatio formulations         2.8         2.7         140         28         0         1         11         2.9         2         0         0           Multiple vitamins, unspecified pediatio formulations         71         2.8         2.725         4         0         1         15         0         0         0         0         13         2         0         0           With iron, on fluoride         72         11         1         0         12         0         0         0         0         0         0         0         0         0	No iron, with fluoride	431	416	11	3	427	3	0	1	16	72	5	0	0	0
No iron, no fluoride       63       30       16       17       44       9       0       10       13       10       8       2       0         With iron, no fluoride       1,833       1,210       185       422       1,583       194       1       44       345       501       119       32       6         With iron, no fluoride       23       18       2       3       22       1       0       3       6       3       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Multiple vitamins, unspecifie adult formulations	ed													
With iron, no fluoride       1,823       1,210       185       422       1,583       194       1       44       345       501       119       32       6         With iron, with fluoride       23       18       2       3       22       1       0       0       3       6       3       0       0         Multiple vitamins, unspecified peridations formulations       112       28       2       168       3       0       1       111       29       2       0       0         With iron, no fluoride       172       142       28       2       168       3       0       1       111       29       2       0       0         With iron, no fluoride       172       142       28       2       725       4       0       2       59       100       29       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	No iron, no fluoride	63	30	16	17	44	9	0	10	13	10	8	2	0	0
With iron, with fluoride       23       18       2       3       22       1       0       0       3       6       3       0       0         No iron, with fluoride       28       27       1       0       28       0       0       0       0       2       0       0       0         Multiple vitamins, unspecified pediatric formulations       772       142       28       2       168       3       0       1       11       29       2       0       0         With iron, no fluoride       71       142       28       2       725       4       0       2       59       190       29       0       0         With iron, with fluoride       12       11       1       0       12       0       0       0       13       2       0       0         With iron, with fluoride       25       785       34       36       1,686       12       11       10       394       122       845       89       4         Other vitamins       2,492       1,763       127       588       2,154       211       1       168       85       43       22       10       10       16<	With iron, no fluoride	1,823	1,210	185	422	1,583	194	1	44	345	501	119	32	6	0
No iron, with fluoride         28         27         1         0         28         0         0         0         2         0         0         0           Multiple vitamins, unspecified pediatric formulatior formulatior formulatior formulatior formulatior formulatior formulatior formulatior formulatior formulation with fluoride         172         142         28         2         168         3         0         1         171         29         2         0         0           With iron, no fluoride         172         141         10         12         0         0         1         5         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>With iron, with fluoride</td> <td>23</td> <td>18</td> <td>2</td> <td>3</td> <td>22</td> <td>1</td> <td>0</td> <td>0</td> <td>3</td> <td>6</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td>	With iron, with fluoride	23	18	2	3	22	1	0	0	3	6	3	0	0	0
Multiple vitamins, unspecified periodiatric formulations         Noi ron, no fluoride         172         142         28         2         168         3         0         1         11         29         2         0         0           With iron, no fluoride         731         667         62         2         725         4         0         2         59         190         29         0         0           With iron, no fluoride         12         11         1         0         12         0         0         0         1         5         0         0         0           No iron, with fluoride         65         63         2         0         65         0         0         0         1         5         0         0         0           Other vitamins         2,789         2,494         71         213         2,695         43         0         48         100         455         64         15         2           Nation (B3)         2,578         534         324         110         294         75         0         24         116         85         43         22         17           Vitamin C         2,492         1,763	No iron, with fluoride	28	27	1	0	28	0	0	0	0	2	0	0	0	0
No iron, no fluoride       172       142       28       2       168       3       0       1       11       29       2       0       0         With iron, no fluoride       731       667       62       2       725       4       0       2       59       190       29       0       0         With iron, no fluoride       12       11       1       0       12       0       0       1       5       0       0       0         No iron, with fluoride       65       63       2       0       65       0       0       0       13       2       0       0         Other vitamins       2,789       2,494       71       213       2,695       43       0       48       100       455       64       15       2         Vitamin A       2,789       2,494       71       213       2,695       43       0       48       100       455       64       15       2       10       10       163       34       329       45       110       116       380       498       160       60       12       10       116       361       24       10       12 <td< td=""><td>Multiple vitamins, unspecifie pediatric formulations</td><td>ed</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Multiple vitamins, unspecifie pediatric formulations	ed													
With iron, no fluoride       731       667       62       2       725       4       0       2       59       190       29       0       0         With iron, with fluoride       12       11       1       0       12       0       0       0       1       5       0       0       0       0         No iron, with fluoride       65       63       2       0       65       0       0       0       13       2       0       0         Other vitamins       2,789       2,494       71       213       2,695       43       0       48       100       455       64       15       2         Niacin (B3)       2,578       534       336       1,686       1,254       261       1       1,053       394       122       845       89       4         Other stamins       2,492       1,773       267       588       2,154       211       1       116       380       498       600       60       12         Vitamin C       2,349       1,774       260       308       2,148       131       1       64       217       459       119       18       3<	No iron, no fluoride	172	142	28	2	168	3	0	1	11	29	2	0	0	0
With iron, with fluoride       12       11       1       0       12       0       0       0       1       5       0       0       0         No iron, with fluoride       65       63       2       0       65       0       0       0       0       13       2       0       0         Other vitamins       2,789       2,494       71       213       2,695       43       0       48       100       455       64       15       2         Niacin (B3)       2,578       534       336       1,686       1,254       261       1       1,053       394       122       845       89       4         Pyridoxine (B6)       394       239       45       110       294       75       0       24       116       85       43       22       10       10         Other B complex       vitamins       2,492       1,763       127       588       2,144       131       1       64       217       459       119       18       3       3       4       3       4       3       4       3       4       3       4       3       4       4       4       4 <t< td=""><td>With iron, no fluoride</td><td>731</td><td>667</td><td>62</td><td>2</td><td>725</td><td>4</td><td>0</td><td>2</td><td>59</td><td>190</td><td>29</td><td>0</td><td>0</td><td>0</td></t<>	With iron, no fluoride	731	667	62	2	725	4	0	2	59	190	29	0	0	0
No iron, with fluoride Other vitamins         65         63         2         0         65         0         0         0         13         2         0         0           Vitamin A         2,789         2,494         71         213         2,695         43         0         48         100         455         64         15         2           Niacin (B3)         2,578         534         336         1,666         1,254         261         1         1,053         394         122         845         89         4           Pridoxine (B6)         394         239         45         110         294         75         0         24         116         85         43         22         10           Other B complex vitamins         2,492         1,763         127         588         2,154         211         1         116         380         498         160         60         12         13         3         14         167         183         119         18         3         3         11         16         380         61         126         8         1         16         13         2         16         1         16         381 <td>With iron, with fluoride</td> <td>12</td> <td>11</td> <td>1</td> <td>0</td> <td>12</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	With iron, with fluoride	12	11	1	0	12	0	0	0	1	5	0	0	0	0
Other vitamins         Vitamin A         2,789         2,494         71         213         2,695         43         0         48         100         455         64         15         2           Niacin (B3)         2,578         534         336         1,686         1,254         261         1         1,053         394         122         845         89         4           Pyridoxine (B6)         394         239         45         110         294         75         0         24         116         85         43         22         10           Other B complex         394         1,774         260         308         2,148         131         1         64         217         459         119         18         3           Vitamin C         2,349         1,774         260         308         2,148         131         1         64         217         459         119         18         3           Vitamin E         1,979         1,523         81         369         1,841         67         2         66         227         401         92         25         1           Other         995         533         855	No iron, with fluoride	65	63	2	0	65	0	0	0	0	13	2	0	0	0
Vitamin A       2,789       2,494       71       213       2,695       43       0       48       100       455       64       15       2         Niacin (B3)       2,578       534       336       1,686       1,254       261       1       1,053       394       122       845       89       4         Pyridoxine (B6)       394       239       45       110       294       75       0       24       116       85       43       22       10         Other B complex       1,763       127       588       2,154       211       1       116       380       498       160       600       12         Vitamin C       2,349       1,774       260       308       2,148       131       1       64       217       459       119       18       3         Vitamin C       2,349       1,774       260       308       2,148       131       1       64       217       459       119       18       3         Vitamin E       1,979       1,523       81       369       1,814       67       2       18       157       84       122       48       26       2	Other vitamins														
Niacin (B3)       2,578       534       336       1,686       1,254       261       1       1,053       394       122       845       89       4         Pyridoxine (B6)       394       239       45       110       294       75       0       24       116       85       43       22       10         Other B complex vitamins       2,492       1,763       127       588       2,154       211       1       166       217       459       119       18       33         Vitamin C       2,349       1,774       260       308       2,148       131       1       64       217       459       119       18       3         Vitamin D       284       151       26       106       242       23       1       17       63       61       26       8       1         Vitamin E       1,979       1,523       81       369       1,841       67       2       16       227       401       92       25       1         Other       995       593       85       307       798       74       2       118       157       184       1322       20       7	Vitamin A	2,789	2,494	71	213	2,695	43	0	48	100	455	64	15	2	0
Pyridoxine (B6)       394       239       45       110       294       75       0       24       116       85       43       22       10         Other B complex vitamins       2,492       1,763       127       588       2,154       211       1       116       380       498       160       60       12         Vitamin C       2,349       1,774       260       308       2,148       131       1       64       217       459       119       18       3         Vitamin D       284       151       26       106       242       23       1       17       63       61       26       8       1         Vitamin E       1,979       1,523       81       369       1,841       67       2       66       227       401       92       25       1         Other       995       593       85       307       798       74       2       118       157       184       132       20       7         Unknown       825       539       148       135       681       101       2       38       183       242       48       26       2 <th< td=""><td>Niacin (B3)</td><td>2,578</td><td>534</td><td>336</td><td>1,686</td><td>1,254</td><td>261</td><td>1</td><td>1,053</td><td>394</td><td>122</td><td>845</td><td>89</td><td>4</td><td>0</td></th<>	Niacin (B3)	2,578	534	336	1,686	1,254	261	1	1,053	394	122	845	89	4	0
Other B complex vitamins         2,492         1,763         127         588         2,154         211         1         116         380         498         160         60         12           Vitamin C         2,349         1,774         260         308         2,148         131         1         64         217         459         119         18         3           Vitamin D         284         151         26         106         242         23         1         17         63         61         26         8         1           Vitamin E         1,979         1,523         81         369         1,841         67         2         66         227         401         92         25         1           Other         995         593         85         307         798         74         2         118         157         184         132         20         7           Unknown         825         539         148         135         681         101         2         38         183         242         48         26         2           Unknown drug         16,134         3,984         3,600         8,155         7,30	Pyridoxine (B6)	394	239	45	110	294	75	0	24	116	85	43	22	10	0
vitamins       2,492       1,763       127       588       2,154       211       1       116       380       498       160       60       12         Vitamin C       2,349       1,774       260       308       2,148       131       1       64       217       459       119       18       3         Vitamin D       284       151       26       106       242       23       1       17       63       61       26       8       1         Vitamin E       1,979       1,523       81       369       1,841       67       2       66       227       401       92       25       1         Other       995       593       85       307       798       74       2       118       157       184       132       20       7         Unknown       825       539       148       135       681       101       2       38       183       242       48       26       2         Category total       57,313       45,239       5,078       6,846       52,849       2,399       22       1,988       5,454       12,314       3,220       518       64	Other B complex														
Vitamin C       2,349       1,774       260       308       2,148       131       1       64       217       459       119       18       3         Vitamin D       284       151       26       106       242       23       1       17       63       61       26       8       1         Vitamin E       1,979       1,523       81       369       1,841       67       2       66       227       401       92       25       1         Other       995       593       85       307       798       74       2       118       157       184       132       200       7         Unknown       825       539       148       135       681       101       2       38       183       242       48       26       2         Category total       57,313       45,239       5,078       6,846       52,849       2,399       22       1,988       5,454       12,314       3,220       518       64         Unknown drug       16,134       3,984       3,600       8,155       7,308       5,744       1,053       1,200       9,923       2,905       2,467       2,328	vitamins	2,492	1,763	127	588	2,154	211	1	116	380	498	160	60	12	0
Vitamin D       284       151       26       106       242       23       1       17       63       61       26       8       1         Vitamin E       1,979       1,523       81       369       1,841       67       2       66       227       401       92       25       1         Other       995       593       85       307       798       74       2       118       157       184       132       20       7         Unknown       825       539       148       135       681       101       2       38       183       242       48       26       2         Category total       57,313       45,239       5,078       6,846       52,849       2,399       22       1,988       5,454       12,314       3,220       518       64         Unknown drug       16,134       3,984       3,600       8,155       7,308       5,744       1,053       1,200       9,923       2,905       2,467       2,328       606       23         Total number of pharmaceuticals       1,281,336       543,764       203,177       526,639       839,757       376,847       3,568       52,256       4	Vitamin C	2,349	1,774	260	308	2,148	131	1	64	217	459	119	18	3	0
Vitamin E       1,979       1,523       81       369       1,841       67       2       66       227       401       92       25       1         Other       995       593       85       307       798       74       2       118       157       184       132       20       7         Unknown       825       539       148       135       681       101       2       38       183       242       48       26       2         Category total       57,313       45,239       5,078       6,846       52,849       2,399       22       1,988       5,454       12,314       3,220       518       64         Unknown drug       16,134       3,984       3,600       8,155       7,308       5,744       1,053       1,200       9,923       2,905       2,467       2,328       606       23         Total number of pharmaceuticals       1,281,336       543,764       203,177       526,639       839,757       376,847       3,568       52,256       495,780       275,013       199,702       111,445       25,373       2,11         % of pharmaceuticals       42.4%       15.9%       41.1%       65.5%       29.4% </td <td>Vitamin D</td> <td>284</td> <td>151</td> <td>26</td> <td>106</td> <td>242</td> <td>23</td> <td>1</td> <td>17</td> <td>63</td> <td>61</td> <td>26</td> <td>8</td> <td>1</td> <td>0</td>	Vitamin D	284	151	26	106	242	23	1	17	63	61	26	8	1	0
Other       995       593       85       307       798       74       2       118       157       184       132       20       7         Unknown       825       539       148       135       681       101       2       38       183       242       48       26       2         Category total       57,313       45,239       5,078       6,846       52,849       2,399       22       1,988       5,454       12,314       3,220       518       64         Unknown drug       16,134       3,984       3,600       8,155       7,308       5,744       1,053       1,200       9,923       2,905       2,467       2,328       606       53         Total number of pharmaceuticals       1,281,336       543,764       203,177       526,639       839,757       376,847       3,568       52,256       495,780       275,013       199,702       111,445       25,373       2,133         % of pharmaceuticals       42.4%       15.9%       41.1%       65.5%       29.4%       0.3%       4.1%       38.7%       21.5%       15.6%       8.7%       2.0%       0.2%         % of all substances       47.7%       20.2%       7.6%	Vitamin E	1,979	1,523	81	369	1,841	67	2	66	227	401	92	25	1	1
Unknown       825       539       148       135       681       101       2       38       183       242       48       26       2         Category total       57,313       45,239       5,078       6,846       52,849       2,399       22       1,988       5,454       12,314       3,220       518       64         Unknown drug       16,134       3,984       3,600       8,155       7,308       5,744       1,053       1,200       9,923       2,905       2,467       2,328       606       33         Total number of pharmaceuticals       1,281,336       543,764       203,177       526,639       839,757       376,847       3,568       52,256       495,780       275,013       199,702       111,445       25,373       2,13         % of pharmaceuticals       42.4%       15.9%       41.1%       65.5%       29.4%       0.3%       4.1%       38.7%       21.5%       15.6%       8.7%       2.0%       0.2         % of all substances       47.7%       20.2%       7.6%       19.6%       31.2%       14.0%       0.1%       1.9%       18.4%       10.2%       7.4%       4.1%       0.9%       0.1	Other	995	593	85	307	798	74	2	118	157	184	132	20	7	0
Category total       57,313       45,239       5,078       6,846       52,849       2,399       22       1,988       5,454       12,314       3,220       518       64         Unknown drug       16,134       3,984       3,600       8,155       7,308       5,744       1,053       1,200       9,923       2,905       2,467       2,328       606       666         Total number of pharmaceuticals       1,281,336       543,764       203,177       526,639       839,757       376,847       3,568       52,256       495,780       275,013       199,702       111,445       25,373       2,13         % of pharmaceuticals       42.4%       15.9%       41.1%       65.5%       29.4%       0.3%       4.1%       38.7%       21.5%       15.6%       8.7%       2.0%       0.2         % of all substances       47.7%       20.2%       7.6%       19.6%       31.2%       14.0%       0.1%       1.9%       18.4%       10.2%       7.4%       4.1%       0.9%       0.1	Unknown	825	539	148	135	681	101	2	38	183	242	48	26	2	0
Unknown drug       16,134       3,984       3,600       8,155       7,308       5,744       1,053       1,200       9,923       2,905       2,467       2,328       606         Total number of pharmaceuticals       1,281,336       543,764       203,177       526,639       839,757       376,847       3,568       52,256       495,780       275,013       199,702       111,445       25,373       2,11         % of pharmaceuticals       42.4%       15.9%       41.1%       65.5%       29.4%       0.3%       4.1%       38.7%       21.5%       15.6%       8.7%       2.0%       0.2%         % of all substances       47.7%       20.2%       7.6%       19.6%       31.2%       14.0%       0.1%       1.9%       18.4%       10.2%       7.4%       4.1%       0.9%       0.1	Category total	57,313	45,239	5,078	6,846	52,849	2,399	22	1,988	5,454	12,314	3,220	518	64	2
Total number of pharmaceuticals         1,281,336         543,764         203,177         526,639         839,757         376,847         3,568         52,256         495,780         275,013         199,702         111,445         25,373         2,19           % of pharmaceuticals         42.4%         15.9%         41.1%         65.5%         29.4%         0.3%         4.1%         38.7%         21.5%         15.6%         8.7%         2.0%         0.2           % of all substances         47.7%         20.2%         7.6%         19.6%         31.2%         14.0%         0.1%         1.9%         18.4%         10.2%         7.4%         4.1%         0.9%         0.1	Unknown drug	16,134	3,984	3,600	8,155	7,308	5,744	1,053	1,200	9,923	2,905	2,467	2,328	606	21
% of pharmaceuticals         42.4%         15.9%         41.1%         65.5%         29.4%         0.3%         4.1%         38.7%         21.5%         15.6%         8.7%         2.0%         0.2           % of all substances         47.7%         20.2%         7.6%         19.6%         31.2%         14.0%         0.1%         1.9%         18.4%         10.2%         7.4%         4.1%         0.9%         0.1	Total number of pharmaceuticals	1,281,336	543,764	203,177	526,639	839,757	376,847	3,568	52,256	495,780	275,013	199,702	111,445	25,373	2,130
% of all substances 47.7% 20.2% 7.6% 19.6% 31.2% 14.0% 0.1% 1.9% 18.4% 10.2% 7.4% 4.1% 0.9% 0.1	% of pharmaceuticals		42.4%	15.9%	41.1%	65.5%	29.4%	0.3%	4.1%	38.7%	21.5%	15.6%	8.7%	2.0%	0.2%
	% of all substances	47.7%	20.2%	7.6%	19.6%	31.2%	14.0%	0.1%	1.9%	18.4%	10.2%	7.4%	4.1%	0.9%	0.1%

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

#### REFERENCES

1. Veltri JC, Litovitz TL: 1983 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1984;2:420-443

2. Litovitz TL, Veltri JC: 1984 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1985;3:423-450

3. Litovitz TL, Normann SA, Veltri JC: 1985 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1986;4:427-458

4. Litovitz TL, Martin TG, Schmitz B: 1986 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1987;5:405-445

 Litovitz TL, Schmitz BF, Matyunas N, Martin TG: 1987 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1988;6:479-515

 Litovitz TL, Schmitz BF, Holm KC: 1988 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1989;7:495-545

7. Litovitz TL, Schmitz BF, Bailey KM: 1989 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1990;8:394-442

8. Litovitz TL, Bailey KM, Schmitz BF, Holm KC, Klein-Schwartz W: 1990 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1991;9:461-509

9. Litovitz TL, Holm KC, Bailey KM, Schmitz BF: 1991 Annual Report of the American Association of Poison Control Centers National Data Collection System. Am J Emerg Med 1992;10:452-505

10. Litovitz TL, Holm KC, Clancy C, Schmitz BF, Clark LR, Oderda GM: 1992 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1993;11:494-555

11. Litovitz TL, Clark LR, Soloway RA: 1993 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1994;12:546-584

12. Litovitz TL, Felberg L, Soloway RA, Ford M, Geller R: 1994 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1995; 13:551-597

13. Litovitz TL, Felberg L, White S, Klein-Schwartz W: 1995 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1996;14:487-537

14. Litovitz TL, Smilkstein M, Felberg L, Klein-Schwartz W, Berlin R, Morgan JL: 1996 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1997;15:447-500

15. Litovitz TL, Klein-Schwartz W, Dyer KS, Shannon M, Lee S, Powers M: 1997 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1998;16:443-497

16. Litovitz TL, Klein-Schwartz W, Caravati EM, Youniss J,

Crouch B, Lee S: 1998 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1999;17:435-487

17. Litovitz TL, Klein-Schwartz W, White S, Cobaugh DJ, Youniss J, Drab A, Benson BE: 1999 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 2000;18:517-574

18. Litovitz TL, Klein-Schwartz W, White S, Cobaugh DJ, Youniss

J, Omslaer JC, Drab A, Benson BE: 2000 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 2001;19:337-395

19. Litovitz TL, Klein-Schwartz W, Rodgers GC, Cobaugh DJ, Youniss J, Omslaer JC, May ME, Woolf AD, Benson BE: 2001 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 2002; 20:391-452

AAPCC's 2002 fatality verification process involved the preparation and review of abstracts on over 1400 fatalities reported to poison centers, some of which were eventually determined to be unrelated to a poison exposure. The review process requires the dedication and commitment of hundreds of poison center staff members . . . more than could possibly be listed here. The following fatality abstract authors were identified by their poison centers as having made a major contribution to this effort. These individuals are acknowledged for their commitment to toxicosurveillance through the careful verification and preparation of clinical abstracts of poisoning cases. Without the dedicated contributions of these individuals, this report would not be possible.

Akhtar, Jawaid Albertson, Timothy E. Alsop, Judith A. Arnold, Thomas Artalejo, III, Leo Baer, Alexander B. Banner, William Barker, Kim Baskin, Doreen Bayer, Marc Benitez, John G. Bernstein, Jeffrey N. Beuhler, Michael C. Bilden, Elisabeth F. Bond, G. Randall Borys, Douglas J. Bosse, George M. Bottei, E. Boyer, Leslie V. Brooker, Jill B. Brooks, Daniel E. Bronstein, Alvin C. Brown, Kelly L. Burkhart, Keith K. Burns, Michele M. Cantor, Richard Caperino-Crean, Laura Caraccio, Thomas R. Caravati, E. Martin Casavant, Marcel J. Chyka, Peter A. Clancy, Cathleen Cleary, Jean Cobb, Douglas Cook, Debbie Courtemanche, Lin Donovan, J. Ward Dorough, Lois I. Doyon, Suzanne Durback-Morris, Lynn F. Eisenga, Bernard H. Fernández, Miguel Finke, Daniel Fisher, John Ford Marsha Fowler, Janet

Fuller, Julee Furbee, R. Brent Gaar, Gregory G. Geller, Richard J. Geller, Robert J. Gummin, David Hantsch, Christina Haynes, Jr, John F. Henretig, Fred M. Hoffman, Robert S. Holmes, Becky L. Holstege, Christopher P. Horowitz, Zane Hughes, Michael P. Johnson, Paul B. Kay, Tama Kemmerer, David A. Keyes, Daniel C. Kimball, Twyla A. Kunisaki, Thomas Lavonas, Eric Lawrence, Ruth A. Lewis-Younger, Cynthia Lieber, Betty Ling, Louis J. Lloyd, Jim Lofton. Amanda LoVecchio, Frank Lovely, Perry L. Lowry, Jennifer Marraffa, Jeanna M. Marcus, Steven M. McGoodwin, Lee McGuigan, Michael A. McKinney, Patrick E. McNally, Jude T. Mercurio-Zappala, Maria Michels, Jill Morgan, Brent Morgan, David L. Mowry, James B. Mrvos, Rita Muller, Allison A. Nester, Mary Lou Nichols, Michele NYC Toxicology Fellows

O'Donnell, Sandra J. Oller, Lisa Olson, Kent R. Omslaer, Judith C. O'Malley, Gerald F. Nikkanen, Heikki E. Perez, Alberto Joshi, Prashant Reed, Michael D. Richardson, William Rivera, Hector L. Rivera, Wilfredo Robertson, William O. Rose, S. Rutherfoord Rossi, Pamala Ryan, Mark Salhanick, Steven D. Scalzo, Anthony J. Schultz, Debora Scruton, Susan Seger, Donna Seifert, Steven A. Serafin, David Shum, Shu Simmons, Henry F. Smith, Greg Smolinske, Susan C. Speranza, Vincent C. Spiller, Henry A. Stremski, Ernest Stork, Christine M. Teter, Cynthia Tharratt, R. Steven Thomas, Jerry D. Thomas, Richard Thompson, Jon Tong, Tri Wahl, Michael Wallace Kevin L. Warfield, Sharita Waszolek, Kathleen Weisman, Richard S. White, Suzanne R. Willis, Branch Winbery, Stephen L.

#### APPENDIX

Drug and chemical concentrations provided in these abstracts were measured in blood, serum or plasma unless otherwise indicated.

**Case 1.** A 35-year-old plumber had a respiratory arrest after exposure to a **toluene-based adhesive** in an unventilated well. He developed asystole and expired after transport to an emergency department (ED).

**Case 4.** A 19-year-old man was found on a college campus the morning after a fraternity party. He was intubated and brought to the ED. He was comatose with no neurological function. A blood **ethanol** concentration was 579 mg/dL. He was admitted to the ICU. He had no neurological improvement and was declared brain dead three days later. Postmortem toxicologic analysis did not detect other substances.

**Case 6.** A 30-year-old man had a cardiopulmonary arrest on a houseboat. Two physicians were present and continued CPR up to 45 minutes prior to the arrival of EMS. He was resuscitated and transported to a local hospital, then to a tertiary care facility. Dopamine and norepinephrine were required to maintain an adequate blood pressure. Pupils were fixed and dilated and he exhibited no neurological response. A blood **ethanol** concentration was 455 mg/dL. The patient continued to deteriorate and expired approximately 24 hours after arrival at the hospital. An autopsy showed hypoxic encephalopathy secondary to acute ethanol intoxication.

**Case 8.** A 53-year-old woman ingested a liter of vodka in a suicide attempt. After an unknown time, the patient became unresponsive requiring mechanical ventilation, with a systolic blood pressure of 70 mm Hg and heart rate, 70 beats/min. Arterial blood gas was pH, 7.15; pCO₂, 28 mm Hg; and pO₂, 239 mm Hg. A blood **ethanol** concentration was 769 mg/dL. Hemodialysis was performed to increase ethanol clearance. Both AST and ALT enzyme concentrations were greater than 5,000 U/L. Acetaminophen was not detected. The patient received intensive supportive care but expired six days after admission due to complications of hepatic failure.

**Case 48.** A 58-year-old man presented in the ED with a history of intentional ingestion of **antifreeze** containing **ethylene glycol**. He was medically cleared and admitted to a psychiatry unit. The following morning he was found in cardiopulmonary arrest and was resuscitated and transferred to the ICU where he was ventilated and given vasopressors. His arterial pH at that time was 6.68. Fomepizole was administered. The patient died 24 hours after admission. Postmortem showed hypoxic encephalopathy, gastrointestinal hemorrhage, and gastritis.

**Case 56.** A 45-year-old man was found unresponsive in the back yard of his mother's house after drinking from a one-gallon container of **antifreeze**. On arrival at the ED he was vomiting copious amounts of green fluid, and urine and stool were green. The patient was intubated for respiratory support. Vital signs were stable. Laboratory results showed: pH, 7.13; pCO₂, 41 mm Hg; pO₂, 111 mm Hg; bicarbonate, 13 mEq/L; glucose, 154 mg/dL; BUN, 21 mg/dL; creatinine, 1.3 mg/dL; anion gap, 22 mEq/L; serum osmolality, 505 mOsm/kg; calculated osmolar gap, 188.7 mOsm/kg; and blood **ethanol**, 29 mg/dL. The patient became agitated

and combative and was sedated with midazolam. He received two doses of fomepizole and hemodialysis was instituted. The patient's feet became dusky and cold; no dorsalis pulses were palpable. Femoral pulses were weak bilaterally. Radial and brachial pulses were good. Twelve hours post ingestion, the patient's urine output decreased from 200 to 120 mL/hr. His systolic blood pressure dropped to 72 mm Hg and heart rate was 120 beats/min. He was given an IV fluid bolus. Doppler studies showed no blood flow to his right lower leg and markedly decreased blood flow to the left lower leg. The ethylene glycol concentration was reported as 916 mg/dL. The next morning, the patient's pupils were fixed and dilated and he had no gag reflex. His hypotension was unresponsive to fluid boluses, but later in the day his blood pressure increased to 200/120 mm Hg. Hemodialysis was repeated. He remained comatose with fixed, dilated pupils. He expired later that day.

**Case 65.** A 37-year-old prisoner was found unresponsive in his cell on morning rounds. He was transported to the ED where he was comatose and in respiratory distress. A chest x-ray revealed bilateral infiltrates. In the ICU his pH was 6.7; serum osmolality, 370 mOsm/kg; and creatinine, 2.4 mg/dL. Further history revealed that the patient had worked in the prison motor pool the day before presentation. Toxic alcohol poisoning was suspected. An ethanol bolus was given followed by a continuous infusion. Urine did not fluoresce and there were no oxalate crystals. Hemodialysis was initiated. The patient required vasopressors during dialysis. The following morning the patient showed clinical signs of cerebral herniation and subsequently had a cardiopulmonary arrest and died. A **methanol** concentration obtained prior to dialysis was 136 mg/dL.

**Case 67.** A 28-year-old man arrived at the hospital with headache, nausea, vomiting and hallucinations. He had been exposed to a liquid **plant food** 2 days prior. He was endotracheally intubated for respiratory depression and became progressively encephalopathic. Additional history 10 days later implicated a **bat bite** 3 weeks prior while the patient was in the attic of his house. He had not received rabies immune globulin as there originally was no history of a bite. The patient continued to deteriorate clinically with seizures and cardiovascular instability. He died on the 15th hospital day when supportive care was withdrawn.

Case 69. A 43-year-old man was reportedly bitten by a timber rattlesnake (Crotalus horridus horridus) while he was trying to capture the snake. He was unstable in the ED one hour after the bite, requiring endotracheal intubation and epinephrine for a blood pressure of 60/47 mm Hg. He was treated with 10 vials of crotaline polyvalent antivenom, diphenhydramine, corticosteroids, morphine and diazepam. He was transferred to another hospital. An additional 16 vials of crotaline polyvalent antivenom were administered. Dopamine and epinephrine were administered for hypotension. Four hours after admission there was laboratory evidence of disseminated intravascular coagulation. Six vials of crotaline polyvalent immune Fab (ovine) were administered. Over the next few hours his condition appeared to stabilize and vasopressors were discontinued. Several hours later epistaxis and bleeding from his mouth began. An additional 7 vials of crotaline polyvalent antivenom, fresh frozen plasma, platelets and cryoprecipitate were administered. Renal failure developed and required hemodialysis.

By the third day he had developed multisystem organ failure. He expired on the tenth hospital day.

Case 71. A 54-year-old woman was possibly envenomated by cone noses (Triatoma genus of the Reduviid family, common name kissing bugs) while sleeping. She was in a sleeping bag outside the house and told her husband that she thought she was having an allergic reaction. She experienced a cardiopulmonary arrest and CPR was performed. Epinephrine was administered. There was ST wave depression on ECG, her pupils were fixed and dilated and the CT scan of her head was unremarkable. Despite aggressive care she could not be resuscitated.

Case 72. A 44-year-old technician at a medical school in Mexico ingested 25 grams of acrylamide at work. He had a history of heart disease. He presented to the ED 2 hours post ingestion with dizziness and vomiting, and complained of hallucinations, blurred vision, and paresthesias in both hands. Oxygen and activated charcoal were administered. The patient developed cardiogenic shock with a mean arterial blood pressure of 50 mm Hg while receiving dopamine. norepinephrine and phenylephrine. Endotracheal intubation was performed and the initial arterial blood gas was pH, 7.44;  $pCO_2$ , 29 mm Hg;  $pO_2$ , 137 mm Hg; and bicarbonate, 8 mEq/L. The patient also received an intravenous vitamin B complex with pyridoxine 600 mg. He became oliguric with a serum creatinine of 4.6 mg/dL. His AST and ALT increased into the 300's U/L. Approximately 21 hours post ingestion the patient had renal failure, hypokalemia, and cardiovascular collapse. He expired approximately 48 hours post ingestion.

**Case 73.** A 29-year-old motor vehicle passenger was exposed to **anhydrous ammonia** that was presumably intended for use by a methamphetamine laboratory. The patient was in a single motor vehicle crash and was transported to the ED for treatment of trauma, and dermal and inhalation exposure to anhydrous ammonia. She was decontaminated and intubated for management of respiratory distress. Adequate oxygenation could not be maintained. She had a cardiorespiratory arrest and died despite resuscitation efforts. It is believed that the anhydrous ammonia container leaked in the vehicle and toxicity from the fumes caused the motor vehicle crash.

**Case 79.** A 65-year-old woman was found unresponsive after reportedly ingesting **cvanide** from an unknown source. She had a cardiac arrest en route to the ED and was resuscitated with atropine and epinephrine. She was given amyl nitrite en route and sodium nitrite and sodium thiosulfate in the ED. Her initial pH was 6.89; lactic acid, 5.1 mg/dL; and methemoglobin, 2.5%. Her whole blood cyanide was 1.68  $\mu$ g/mL. She remained unresponsive and died 2 days after admission.

Case 97. A 68-year-old man with a history of prostate cancer underwent surgery and 200 mL formaldehyde (1%) was instilled in the bladder. The bladder perforated and the formaldehyde leaked into the peritoneum. The patient was treated with low-dose dopamine for a blood pressure of 95/50 mm Hg. Arterial blood gas pH was 7.24 and bicarbonate 12 mEq/L. Treatment included sodium bicarbonate, multiple-dose activated charcoal and hemodialysis. His heart rate was 150 beats/min and his systolic blood pressure dropped to 60 to 70 mm Hg. Norepinephrine therapy was initiated. The patient developed acute respiratory distress alysis, his arterial blood gas pH was 7.34; pCO₂, 38 mm Hg; pO₂, 66 mm Hg; bicarbonate, 21 mEq/L; and oxygen saturation 82% on 100% oxygen. Other labs included: creatine kinase, 2681 U/L; serum osmolality, 317 mOsm/kg; calculated osmolal gap 23 mOsm/kg; sodium, 128 mEq/L; potassium, 4.9 mEq/L; chloride, 94mEq/L; bicarbonate, 13 mEq/L; glucose, 550 mg/dL; BUN, 18 mg/dL; creatinine, 2.0 mg/dL; calcium, 7.2 mg/dL; phosphate, 4.6 mg/dL; total protein, 5.1 g/dL; albumin, 2.2 g/dL and total bilirubin 1.0 mg/dL. Despite aggressive therapy the patient died the night of admission. The cause of death was listed as formaldehyde toxicity secondary to a bladder fistula which resulted from prostatic carcinoma.

**Case 106.** A 35-year-old woman with a history of heroin and cocaine abuse was found dead in rigor mortis. An odor of volatile chemicals was noted in the room. At autopsy, **phenol** concentrations were 1,200  $\mu$ g/mL in serum and 13,000  $\mu$ g/mL in gastric contents. The serum cocaine concentration was 0.037  $\mu$ g/mL. There were no gastric or epigastric burns. The esophageal tissue was described as "firm, as if embalmed".

Case 108. A 59-year-old chemist walked into the ED 30 minutes after reportedly ingesting one gram of sodium azide in a suicide attempt. In the ED the patient rapidly developed tachypnea, respiratory distress and decreased mental status. His blood pressure was 94/44 mm Hg and his heart rate was 120 beats/min. He underwent endotracheal intubation, developed intractable hypotension and expired two hours after presentation.

Case 109. A 45-year-old man suffered 11% body-surface-area burns after a workplace explosion of a 6% sodium azide, 30-50% caustic soda (sodium hydroxide) solution. He was decontaminated at the scene. On arrival at the ED his systolic blood pressure was 85 mm Hg with a heart rate of 75 beats/min. His initial arterial blood pH was 7.26 with a calculated bicarbonate of 10 mEq/L. Five hours after exposure his blood pressure was 50 mm Hg despite IV fluids and a dopamine infusion. His lactate was 20 mmol/L. He developed refractory hypotension and metabolic acidosis despite fluid resuscitation, a bicarbonate infusion and maximal vasopressor support. He died 11 hours post exposure. Postmortem examination revealed burns, cerebral edema, pulmonary edema and a pelvic fracture.

Case 111. A 34-year-old man reportedly ingested an unknown amount of household bleach (sodium hypochlorite) for an unknown reason. While his wife claimed that it was commercial bleach, the product was later identified as common household bleach. When EMS arrived the patient was combative. He vomited during endotracheal intubation and had a cardiac arrest prior to arrival at the ED. He could not be resuscitated. Postmortem examination revealed dark mucosal discolorations on the lesser curvature of the stomach and pulmonary congestion and edema. Gastric contents pH was 6.0.

Case 112. A 40-year-old man had a small amount of household bleach (sodium hypochlorite) and rubbing alcohol (isopropanol) thrown on his face and mouth during an argument. He presented at the ED with shortness of breath. Oxygen saturation was 77% and pulmonary edema was noted on chest x-ray. Ocular irritation was present. Over the next 12 hours he experienced emesis, tachypnea

and progressive dyspnea with oxygen saturation of 50%. Severe acute respiratory distress syndrome required endotracheal intubation. Hypotension and metabolic acidosis developed and were treated with fluids and dopamine. Evaluation for ingestion of other substances was negative. No alternate explanation or additional history of the actual exposure was identified. He stabilized over the next two days. He then developed pneumonia and was treated with antibiotics. Further clinical deterioration occurred and the patient died 20 days after exposure. The police charged his assailant with causing his demise.

**Case 113.** An 84-year-old woman with Alzheimer's disease ingested an unknown amount of a heavy duty liquid laundry **detergent (anionic/nonionic)**. In the ED she was foaming at the mouth and had an arterial oxygen saturation of 70-80%. Hematemesis was noted and she was intubated and admitted to the ICU. Vital signs were: systolic blood pressure, 60-70 mm Hg; heart rate, 100 beats/min; respiratory rate, 18 breaths/min; and afebrile. Pertinent laboratory results included sodium, 150 mEq/L; potassium, 2.3 mEq/L; chloride, 111 mEq/L; bicarbonate, 14 mEq/L; and blood glucose 299 mg/dL. A chest x-ray revealed bilateral pulmonary infiltrates. The patient was treated with supportive respiratory care and dopamine and norepinephrine for hypotension. Twelve hours after arrival the patient had no respiratory effort. The patient expired within 24 hours.

Case 118. A 27-year-old man was brought to the ED with hematemesis. He stated that he had ingested an alkaline drain opener (sodium hydroxide) in a suicide attempt. He was hemodynamically stable but required endotracheal intubation in the ED. Endoscopy showed necrosis of the entire esophagus and gastric mucosa with burns extending into the proximal duodenum. He was admitted to the ICU and corticosteroids and antibiotics were started. He was extubated 7 days post-ingestion. He experienced intermittent fevers that were treated with antibiotics. Two episodes of hematemesis occurred 15 days after the ingestion. A chest x-ray 20 days post ingestion showed an enlarged cardiac silhouette. CT scan confirmed a pericardial effusion secondary to esophageal perforation. Pericardiocentesis removed 450 mL of turbid fluid. The patient continued to do poorly and died secondary to cardiac tamponade 29 days after the ingestion.

**Case 121.** A 42-year-old man, when informed that he was to be fired from his job, reportedly ingested a **sulfuric acid-based drain opener** and an unknown amount of aspirin. The patient presented to the ED with complaints of mouth, throat and abdominal pain. The patient was intubated. Full thickness burns and edema were seen on endoscopy. The patient developed abdominal free air and became acidotic and hypotensive. The serum aspirin concentration was undetectable. The patient was found at surgery. He underwent a total gastrectomy and removal of most of his small bowel. The patient left the operating room in disseminated intravascular coagulation with a hemoglobin of 3 g/dL. He expired three days after the ingestion.

**Case 123.** A 13-month-old girl was found dead at home. The child was thought to have been drinking liquid **hand dishwashing detergent**. On postmortem examination the abdomen, stomach and intestines were markedly dilated with the intraluminal presence of detergent and bubbles. There was no evidence of either corrosive injury or aspiration. A toxicology screen was negative. A partially-filled 8 ounce bottle of liquid detergent (citric scent) was found at home.

**Case 137.** A 75-year-old woman unintentionally applied **denture powder** to her dentures while they were still in her mouth. On ED evaluation she was found to have severe burns to the lips, mouth and oropharynx with swelling and drooling. She required endotracheal intubation for respiratory distress secondary to increased secretions and irritation. She developed profound hypotension and died.

**Cases 140 and 141.** Two male workers, ages 25 and 43 years, were cleaning a 1500 gallon tank containing **argon** gas when they fell in the tank. Both workers were found unresponsive and slightly cyanotic when they were removed from the tank. They were in cardiopulmonary arrest when they presented at the ED. Neither patient could be successfully resuscitated. Autopsy findings were consistent with asphyxia from argon gas.

**Case 142.** A 60-year-old man was found at home in cardiopulmonary arrest with a plastic bag over his head. The bag was attached to a canister of **carbon dioxide**. The patient was resuscitated in the ED and admitted to the ICU on multiple vasopressors. He did not regain consciousness and died on the third hospital day. The cause of death was determined to be anoxic encephalopathy due to carbon dioxide poisoning.

**Case 184.** A 62-year-old man died after two years of chronic respiratory and renal disease. Autopsy showed a blood **cadmium** concentration of 74 ng/mL (normal less than 5 ng/mL). The patient had worked on the railroad and was a machine operator for 30 years, but no definitive source of the cadmium was discovered despite an extensive investigation of home and work sites. Death was attributed to cadmium toxicity from an unknown source.

**Case 185.** A 19-month-old boy was transported to the ED by paramedics who described him as "black and smoking". In the ED the child was in cardiopulmonary arrest. He was noted to have a black sticky material on his arms and shoulders, a blackened and swollen oropharynx and "smoke" coming from his nasopharynx. His oropharyngeal secretions burned holes in the hospital bed sheets. An emergency tracheostomy was done but the child could not be resuscitated. The substance was determined to be a **manganese/barium** compound from an unknown source. Upon postmortem examination no injury was found below the aryepiglottic folds. Postmortem blood concentrations were: manganese, 390 ng/mL; and barium, 760 ng/mL.

**Case 187.** A 13-year-old boy was found dead with a plastic bag tightly bound over his head. The bag was connected to a can of a **chlorofluorocarbon**. A suicide note was found at the scene.

**Case 189.** A 62-year-old man was transported to the ED after having been found at home in cardiac arrest with a bag over his head. The bag was connected to a **chlorofluoro-carbon** source. CPR and endotracheal intubation were performed at the scene. On arrival at the ED his heart rate was 30 beats/min and his pupils were fixed and dilated. He was started on a dopamine infusion and admitted to the ICU. The patient expired the following morning.

**Case 191.** A 13-year-old boy was found in cardiopulmonary arrest slumped over the **gasoline** tank of an all-terrain vehicle. The patient could not be resuscitated. **Case 192.** A 9-year-old mentally retarded boy presented to the ED after ingesting an unknown amount of a **hydrocarbon-based hand cleaner**. In the ED he was tachycardic and hypoxic on 100% oxygen. A chest x-ray showed bilateral pulmonary infiltrates. He was admitted to the PICU where he was intubated and mechanically ventilated. A tracheal culture grew gram negative bacteria. Over the next day he became unresponsive with evidence of sepsis and disseminated intravascular coagulation. His condition deteriorated and he expired on his second hospital day.

**Case 193.** A 27-year-old man was apparently immersed in an unknown **hydrocarbon** liquid in a manhole for approximately one hour while working. He presented to the ED with evidence of pulmonary aspiration. He was intubated and decontaminated. Oxygen saturation prior to intubation was 70-80%. A chest x-ray showed extensive pneumonitis and high ventilator peak pressures were necessary for oxygenation. Arterial blood gas revealed: pH, 7.253; pO₂, 69 mm Hg; pCO₂, 34 mm Hg; base excess, 12 mmol/L; and 91% saturation on 100% oxygen. The WBC was 40,000/ $\mu$ L. The patient's blood pressure was normal and his heart rate 130-140 beats/min. He expired approximately 6 hours after the exposure.

**Case 194.** A 9-month-old girl was brought to the ED in respiratory distress after ingesting an unknown amount of **lamp oil**. During transfer to another facility the child decompensated and was intubated and started on vasopressors. A chest x-ray showed bilateral pulmonary white out. The child's respiratory status and blood pressure both improved over the next 12 hours. By 36 hours after admission, however, the child had fixed pupils and no spontaneous respirations. On the sixth hospital day supportive care was withdrawn and the child expired.

**Case 196.** A 53-year-old man was found unresponsive at home. Two containers of **paint thinner** and a soaked pad were found next to him. In the ED his vital signs were normal with a respiratory rate of 12 breaths/min. An endotracheal tube was placed and he was treated with aggressive supportive care. In the ICU he had multiple seizures. He did not regain consciousness and was diagnosed with hypoxic brain injury. His family made his status DNR and he died 15 days after admission.

**Case 199.** A 78-year-old man cooked and ate five mushrooms that he picked from under a tree in a wooded area near his home. The mushrooms were later thought to be *Amanita phalloides*. Approximately 14 hours after ingestion he developed nausea and vomiting, followed several hours later by non-bloody, non-mucoid diarrhea and muscle cramping. Laboratory results were AST, 134 U/L; ALT, 95 U/L; PT, 12.6 s; BUN, 37 mg/dL; creatinine, 2.2 mg/dL; and glucose, 180 mg/dL. He was transferred to the regional poison treatment center and treated with multiple doses of activated charcoal, high dose penicillin and lactulose. Due to progressive acidosis and coagulopathy he was transferred to a liver transplant center where he was determined not to be a suitable candidate. He died from multisystem organ failure 12 days after exposure.

**Case 201.** A 75-year-old woman ate a soup containing an unknown amount of what were described as "beefsteak or red morel" **monomethylhydrazine mushrooms**. She developed vomiting and diarrhea about five hours after ingestion. Her husband had eaten the same soup and vomited

shortly after ingestion, but developed no other symptoms. The patient had no history of ethanol use. She presented to an ED approximately seven hours after ingestion where her systolic blood pressure was 30 to 50 mm Hg. Hypotension transiently responded to IV fluids. However, her blood pressure dropped again requiring dopamine and dobutamine. Initial laboratory values were: BUN, 24 mg/dL; creatinine, 1.3 mg/dL; and glucose, 227 mg/dL; with normal hepatic enzymes. An arterial blood gas was: pH, 7.0; pCO₂, 32 mm Hg; pO₂, 160 mm Hg; and bicarbonate, 8 mEq/L. She was admitted to an ICU at which time her blood pressure was 80/30 mm Hg with vasopressor support. She was awake and alert. The next morning the patient exhibited alternating periods of tachycardia and bradycardia followed by a cardiopulmonary arrest from which she was resuscitated. She was intubated but was later able to be extubated. She was oliguric with 25 mL urine output over approximately an 18-hour period. Repeat laboratory values showed: BUN, 30 mg/dL; creatinine, 2.1 mg/dL; AST, 68 U/L; WBC, 30,000/µL; troponin, 0.17 ng/mL; and serum myoglobin, 1409 ng/mL. After the cardiopulmonary arrest, the patient was unresponsive and remained hypotensive despite vasopressor support. Oxygen saturation was 86% with 100% oxygen by non-rebreather mask. She was not reintubated as her family did not want further heroic lifesaving efforts. The patient's condition continued to deteriorate and she expired on the second hospital day.

**Case 203.** A 68-year-old man was transferred to a local health care facility 48 hours after the ingestion of **unknown mushrooms**. He presented with renal insufficiency, metabolic acidosis and hepatitis. His laboratory studies revealed: total bilirubin, 4 mg/dL; transaminases, in the 2000 U/L range; and INR, 2.1. Over the next few days, his renal and hepatic failure worsened despite supportive care and hemodialysis. The patient expired 12 days post ingestion.

**Case 206.** A 27-year-old woman was found dead in her home. She had a past history of chronic inhalation abuse and had recently been sick for 3-4 days, with vomiting and diarrhea. Silver colored **paint** was found on the palms of her hands and on her lower extremity. Postmortem blood analysis showed a toluene concentration of 1.3  $\mu$ g/mL and an acetone concentration of 0.06  $\mu$ g/mL.

Case 209. A 43-year-old woman was brought to the ED after ingesting an estimated two ounces of a **chlorophenoxy** herbicide and unknown amount of diphenhydramine at an unknown time prior to presentation. In the ED she was unresponsive and there was evidence of vomiting prior to arrival. Her pupils were 2 to 3 mm and sluggishly reactive. Her heart rate was 95 beats/min; blood pressure, 130/60 mm Hg; and oxygen saturation, 100% on room air. Urine output was minimal. An ECG showed a QTc of 600 msec. Naloxone was given without effect. Her lower extremities were noted to be cool although pedal pulses were present. She was intubated and sedated. Activated charcoal was given. She was transferred to a toxicology treatment center where she received 10 liters of fluid with bicarbonate during the first 24 hours. She developed acute renal failure requiring hemodialysis, a corrosive colitis requiring a hemicolectomy, acute respiratory distress syndrome, sepsis, hepatic failure and encephalopathy. She died 42 days post ingestion.

**Case 210.** An 80-year-old suicidal man ingested three tablespoonfuls of a **glyphosate**-containing herbicide mixed

in orange juice. He was admitted to the ICU where he had an arterial blood pH of 7.16 with a pCO₂ of 67 mm Hg. His serum potassium was 5.9 mEq/L. ICU treatment included a bicarbonate infusion to treat respiratory acidosis and sodium polystyrene sulfonate to treat hyperkalemia. The patient developed ventricular ectopy which progressed to asystole. The family elected to withdraw treatment and he died.

**Case 211.** A 58-year-old man unintentionally ingested **paraquat methosulfate** from a soda can. The presence of paraquat was confirmed analytically. He presented with symptoms of gastritis and esophagitis. Pulmonary congestion and oliguria began two days post ingestion and required endotracheal intubation and hemodialysis the following day. Low oxygen saturations were tolerated, with a maximum of 40% oxygen delivered by ventilator. After a brief period of initial hypertension requiring nitroglycerin, he became hypotensive and subsequently required dopamine to maintain an adequate blood pressure. He expired on the 18th hospital day.

Case 213. A 68-year-old woman was found unconscious on her bathroom floor next to empty bottles of a concentrated acephate insecticide and nortriptyline. Some vomitus was on the floor. Increased secretions from her mouth and nose were observed by EMS. An endotracheal tube was placed and atropine (2 mg) was administered without response. In the ED her systolic blood pressure was 54 mm Hg; heart rate, 135 beats/min; and oxygen saturation, 87%. Rales were present. ECG intervals were within normal limits. She was given atropine, 10 mg IV every 15 minutes, as well as a 2.0 g dose of intravenous pralidoxime. Her total initial atropine dose was 130 mg. Vasopressors were used to treat hypotension and sodium bicarbonate was infused to correct a metabolic acidosis (pH 7.1). Activated charcoal and sorbitol were administered via nasogastric tube. The patient was placed on an atropine infusion at an initial rate of 90 mg/hr. Intermittently the atropine infusion was stopped, and the pulmonary secretions recurred. She also received a continuous pralidoxime infusion at 1250 mg/hr. She deteriorated clinically and developed intractable hypotension, respiratory failure, renal failure and evidence of early disseminated intravascular coagulation. She developed ventricular tachycardia and the atropine infusion was reduced with resolution of the dysrhythmia. She had a cardiac arrest and died on the fifth hospital day, while still receiving atropine and pralidoxime. Her plasma cholinesterase concentration, collected upon arrival at the ED, was 100 IU/L (normal 1400-5600 IU/L), or 7% of the lower limit of normal for that lab. Another specimen, sent to a different lab and collected two days after her presentation, had a serum cholinesterase of 218 IU/L (normal 3200-7200 IU/L) which was 6.8% of lower limit of normal for that lab.

**Case 214.** A 79-year-old man with a history of depression and coronary artery disease phoned his son to say "goodbye". He indicated that he had just ingested ant poison. He was found at home unresponsive with agonal respirations. A product containing 42% **calcium cyanide** was found nearby. He was intubated at the scene and resuscitated. Heart rate and blood pressure were restored. Approximately 5 hours later he arrested and could not be resuscitated. Postmortem blood analysis revealed: cyanide, 2.49  $\mu$ g/mL; **ethanol**, 150 mg/dL; and lidocaine, 1.3  $\mu$ g/mL. **Case 215.** A 17-year-old girl presented to the ED approximately 5 hours after ingesting an unknown number of tablets which she had bought on the street for weight reduction. She had been taking one tablet daily for several days before the overdose. In the ED she had tachycardia, diaphoresis and a fluctuating mental status. She developed a fever which was difficult to control. Her ECG revealed a prolonged QT interval. Laboratory analysis revealed a potassium of 9 mEq/L. She then developed ventricular tachycardia, arrested and died about 6 hours after ED arrival. Postmortem blood analysis revealed **dinitrophenol** and **caffeine**.

Case 217. A 40-year-old man was found unconscious after spraying an unknown substance in the garden of his mother's farm. Paramedics found the patient incontinent of urine and stool, diaphoretic, with pinpoint pupils and bronchospasm. An endotracheal tube was placed and he was given atropine in the field. In the ED he was decontaminated with copious amounts of water. A strong odor of insecticide was present. He received a total of 12.5 mg atropine and 1 gram pralidoxime. Heart rate was 120 beats/min and blood pressure 123/75 mm Hg. He was mechanically ventilated and paralyzed. He had a large anion gap acidosis. Organo**phosphate** poisoning and either ethylene glycol or methanol were suspected. The patient was vigorously decontaminated again. He received a single dose of activated charcoal. The patient was admitted to the ICU. Laboratory values included pH, 7.25; pCO₂, 21.5 mm Hg; pO₂, 152 mm Hg; bicarbonate, 9.2 mEq/L; oxygen saturation 98% on 50% oxygen. He received 3 additional mg of atropine and secretions were minimal thereafter. He had very short-lived episodes of tremors. Charcoal stools smelled of insecticide. The next morning the patient's arterial blood pH was 6.93. He had been receiving atropine and pralidoxime and his lungs were clear. He still smelled strongly of insecticide. There was concern about the potential for ethylene glycol poisoning so the patient was hemodialyzed with no correction of the acidosis. The patient became hypotensive, and dopamine and norepinephrine were initiated to maintain a blood pressure of 80/50 mm Hg. Oxygen saturations were in the 70-80% range on 100% oxygen. The patient expired the next day after the family decided to withdraw supportive care. At autopsy, plasma and RBC cholinesterase values were 339 and 5,602 IU/L respectively (laboratory reference values not known).

**Case 219.** A 31-year-old man was admitted to the hospital after reportedly ingesting 2 to 3 boxes of a **brodifacoum rodenticide** daily for the three prior days. His INR was 5.8 on admission. The patient was treated with phytonadione and discharged to a psychiatric facility the following day. Over the next three months the patient had three additional hospital admissions and one additional psychiatric admission. His INR normalized while he was in the hospital and receiving phytonadione, but became abnormal (values to >100) within a few days after hospital discharge. He denied further ingestions and it was believed that his compliance with outpatient phytonadione therapy was poor. He died after a bleeding episode three months later.

**Case 220.** A 38-year-old man was brought to the ED after having been found by roommates comatose with dried blood in the corner of his mouth. A CT scan revealed subarachnoid and intracranial hemorrhage. His PTT was 134 s and his PT too high to measure. He remained unresponsive and died when supportive care was withdrawn approximately 24 hours after admission. By history he had ingested **brodifacoum** in a suicide attempt approximately one month prior to this admission. He had been treated at a local hospital and discharged on large oral doses of phytonadione. He had been followed up at least once at an ambulatory clinic.

Case 222. A 13-year-old girl ingested Conium macula*tum* (poison hemlock) after mistaking it for parsley. She developed giddiness, flushing, diaphoresis, nausea and vomiting. She sought relief by bathing. She then began to develop dystaxia, dyspnea, marked tongue edema and ascending paralysis. She became cyanotic and seized. Paramedics found her hypothermic and in cardiopulmonary arrest with blood tinged sputum and fixed and dilated pupils. An orotracheal tube was placed and she was resuscitated. Gastric lavage yielded plant fragments and activated charcoal was administered. CT of the head showed evidence of hypoxic ischemic injury and she was declared brain dead 36 hours after presentation. A plant sample was positively identified. At autopsy she was found to have an underlying subclinical myelitis which was believed to have contributed to her outcome. A companion had ingested a similar quantity of the plant and had less severe symptoms.

Case 236. A 31-year-old woman presented to the emergency department in status epilepticus with a blood glucose of 28 mg/dL. She had significant elevations in her liver transaminases (AST and ALT both greater than 3,000 U/L) and an **acetaminophen** concentration of 24  $\mu$ g/mL. She was intubated and her seizures were controlled with benzodiazepines. She received activated charcoal, N-acetylcysteine therapy was initiated, and she was admitted to the intensive care unit. Her transaminases continued to rise, peaked in the 6,000 U/L range on the third hospital day, and then rapidly declined. INR, bilirubin, and ammonia concentration rose steadily despite lactulose and vitamin K therapy. Despite maximal supportive care and N-acetylcysteine therapy the patient's condition continued to deteriorate. Aggressive care was stopped at the family's request and she died on the sixth hospital day.

Case 243. A 35-year-old man reportedly ingested approximately 250 acetaminophen tablets. He was brought to the ED approximately 48 hours after the ingestion because he was groggy. His other medications included clonidine, amlodipine, propranolol, furosemide, atorvastatin, quinapril, nefazodone, bupropion, olanzapine, clonazepam, rabeprazole and warfarin. He presented with normal vital signs and mild alteration of his mental status. Laboratory values included: acetaminophen, 266 µg/mL; AST, 577 U/L; AST, 594 U/L; bilirubin, 3.4 mg/dL; INR, 4.7; creatinine, 1.6 mg/dL; and platelet count,  $87,000/\mu$ L. Intravenous N-acetylcysteine therapy was initiated. Hypotension developed concurrent to therapy and the intravenous N-acetylcysteine was discontinued. The patient's clinical status progressively deteriorated and he required vasopressors and endotracheal intubation. His liver enzymes continued to rise and peaked at >4,500 U/L on his third hospital day. His coagulopathy persisted and required phytonadione and fresh frozen plasma. The patient was transferred to a tertiary care hospital where he died on the eighth day of hospitalization.

Case 259. A 45-year-old woman with history of schizophrenia treated with haloperidol and olanzapine was found unresponsive in her bed at an assisted living facility. She had been engaging in normal activities that day and had not shown any signs of illness. In the ED she was found to have decreased respirations and was intubated. Her ECG was described as normal. Significant initial laboratory values were serum bicarbonate, 6 mEq/L; blood glucose, 59 mg/ dL; AST, 638 U/L; ALT, 599 U/L; creatinine, 2.0 mg/dL; PT, 15.8 s; PTT, 46.7 s; INR, 2.1; amylase, 1,091 U/L. The initial diagnosis was sepsis and antibiotic therapy was initiated. The following day, because of an increase in her ALT to 1,033 U/L and AST to 1,332 U/L, an acetaminophen concentration was measured with a result of 256  $\mu$ g/mL. Analysis of an admission blood sample revealed an acetaminophen concentration of 1,208  $\mu$ g/mL. She was started on oral N-acetylcysteine. Her condition deteriorated and she died two days later.

**Case 296.** A 22-year-old woman with Crohn's disease was known to be taking more than 5 grams of **acetamino-phen** daily for pain. For five days prior to admission she had also been binge drinking **ethanol** and had reportedly been taking an additional 10 to 20 acetaminophen tablets daily (unknown strength). On presentation to the ED she had nausea and vomiting, and was jaundiced, agitated and confused. She was intubated and soon became unresponsive. Her transaminases peaked at several thousand U/L and her INR at 16, with a peak total bilirubin of 14.6 mg/dL. The patient received oral N-acetylcysteine without improvement. She was declared brain dead two days after presentation.

Case 333. A 32-year-old woman intentionally ingested 150 tablets of acetaminophen (500 mg) in combination with **diphenhydramine** (25 mg). EMS personnel found the patient naked and combative at home. The time of ingestion was unknown. Naloxone (2 mg) was administered without effect. Vomitus was in the patient's hair, ears and on her face. In the ED her vital signs were normal except for a heart rate of 115 beats/min. She received metoclopramide and oral N-acetylcysteine was initiated. The patient became agitated and combative. An initial acetaminophen concentration was 540  $\mu$ g/mL, liver enzymes were minimally elevated, and bicarbonate was 12 mEq/L. The patient was sedated with diazepam and physostigmine (2 mg) was given with improvement in mental status. A sodium bicarbonate infusion was initiated and the patient was transferred to the regional poison treatment center for intravenous N-acetylcysteine. Approximately 18 hours post ingestion, she developed a sudden decrease in mental status, respiratory distress, and oxygen desaturation accompanied by sinus tachycardia and hypotension. She was intubated, sedated with propofol, and vasopressor support was initiated. Laboratory values showed: anion gap, 22 mEq/L; BUN, 10 mg/dL; creatinine, 1.0 mg/dL; ALT, 333 U/L; PT, 25.5 s; and INR, 3.74. At 24 hours post ingestion, ALT was 1,860 U/L and her acetaminophen concentration was 177  $\mu$ g/mL. She received two courses of hemodialysis. She remained unresponsive. A CT scan was negative for cerebral edema. She was placed on the waiting list for a liver transplant but her coagulopathy worsened and she developed pulmonary

hemorrhage and renal failure. The family elected to withdraw life support and the patient expired four days post ingestion.

**Case 442.** A 42-year-old woman was found minimally responsive by her boyfriend. In the ED she was intubated and ventilated for airway protection. She was thought to have ingested an unknown quantity of **aspirin** and **aceta-minophen**. Initial laboratory values showed: pH, 7.2; bicarbonate, 9 mEq/L; and anion gap, 30 mEq/L. An acetaminophen concentration approximately 16 hours after ingestion was 130  $\mu$ g/mL and the salicylate concentration was 73 mg/dL. Hemodialysis was recommended but the patient became hypotensive despite intravenous fluids and dopamine. She then precipitously became bradycardic, arrested and could not be resuscitated. Death occurred 4.5 hours after presenting in the ED.

Case 461. A 56-year-old man presented to the ED stating that he had inadvertently ingested 69 of his **colchicine** pills approximately 1.5 hours before arrival. He was asymptomatic. The patient was admitted and treated with gastric lavage, whole bowel irrigation, and multidose activated charcoal. In the ICU he remained asymptomatic and stable until approximately 15 hours after arrival when he began to experience severe emesis, hypoxia, and respiratory distress with frequent ventricular premature beats. Electrolytes and liver function tests were normal. His respiratory status and mental status continued to worsen. He became anuric with acute renal failure and developed leukopenia. On the morning of the second hospital day his blood pressure became labile and his respiratory status worsened further. He was intubated, vasopressors were started, and a cannula was inserted for hemodialysis. Later in the afternoon of the second hospital day the patient arrested. He was resuscitated and placed on epinephrine and norepinephrine infusions. He became progressively more cyanotic and was refractory to therapy. He expired from multisystem organ failure on the third hospital day.

**Case 463.** An 83-year-old nursing home patient was prescribed **colchicine** for acute gouty arthritis. She was incorrectly given 6 tablets (0.6 mg) every hour for 4 hours. At the end of 4 hours the patient began complaining of nausea, vomiting and abdominal pain. She was taken to the ED 11 hours after the first dose of colchicine was administered. At presentation the patient had tachycardia and tachypnea and was vomiting and retching. She was treated with ondansetron for nausea; fluids; and a dose of corticosteroids (she was on chronic corticosteroids for ulcerative colitis). The patient developed an arrhythmia and sudden death occurred 14 hours after arrival at the hospital.

**Case 467.** A 4-year-old girl was found unresponsive at home by her grandmother. EMS was called and the child was asystolic and cold. CPR was initiated, but the child could not be resuscitated. ED staff noted one **fentanyl patch** on the child and two additional marks on her skin where other patches had been. The history was that the grandmother had applied the patches to relieve the child's pain. The grandmother also reported that the child had an apparent seizure at home. It is unknown how many patches had been used and when they were applied. A urine drug screen was negative.

**Case 479.** A 4-year-old boy was found unresponsive at home by his mother. EMS was called and the child was

transported to the local hospital where he was in cardiopulmonary arrest and could not be resuscitated. The child had been suffering from a cold and sore throat. He had been receiving a **hydrocodone** syrup. The child had been given a dose and had fallen asleep with snoring respirations. The father, with the same name as the boy, had also been receiving a hydrocodone-based medication, and the mother may have administered the father's medication to the child. Postmortem heart blood drug concentrations were: hydrocodone, 670 ng/mL; **chlorpheniramine**, 0.21  $\mu$ g/mL; and **guaifenesin**, detected. Hydrocodone measured in bile was 300 ng/mL.

**Case 483.** A 16-year-old girl was hospitalized for control of chronic pain with **hydromorphone** administered by patient-controlled analgesia infusion. She was supposed to have received a 2 mg total dose administered as a 0.1 mg/mL solution. Instead she received a 1 mg/mL admixture administered over several hours, with an estimated total dose of 16 mg. She became unresponsive, apneic and hypotensive. She was intubated and given naloxone boluses followed by a continuous naloxone infusion with only minimal improvement in her mental status. She was transferred to a tertiary pediatric facility where her neurologic status continued to deteriorate. She expired two days after the exposure.

**Case 485.** A 7-year-old obese boy received **meperidine** at home for pain control after an outpatient tonsillectomy and adenoidectomy. His mother noticed he was very lethargic and discontinued the meperidine. The day following his surgery he was found dead at home. Postmortem analysis reported heart blood meperidine, 1.27  $\mu$ g/mL; heart blood normeperidine, 0.76  $\mu$ g/mL; CSF meperidine, 0.86  $\mu$ g/mL; and CSF normeperidine, 0.40  $\mu$ g/mL. The medical examiner determined the cause of death was meperidine intoxication complicated by pneumonia.

**Case 520.** A 17-month-old boy was found in cardiopulmonary arrest at home by his mother. He arrived in the ED in full arrest, cold and cyanotic. Resuscitation efforts were unsuccessful. There was a question as to whether the child had ingested some of his mother's **methadone**. Postmortem toxicologic analysis of the child's blood revealed methadone, 0.65  $\mu$ g/mL; and **diphenhydramine**, 1.2  $\mu$ g/mL. The cause of death was determined to be multiple drug overdose. The mother was subsequently indicted for the death of her son.

**Case 564.** A hospitalized 33-year-old man was found dead in his bed after undergoing an uncomplicated Nissen fundoplication to manage acid reflux disease. Post-operative medications included **promethazine** and a **morphine** pump. It was believed that the pump had inadvertently been set improperly or loaded with a higher concentration of morphine than normally used. Postmortem analysis of blood revealed morphine, 280 ng/mL; and promethazine, 110 ng/mL.

**Case 606.** A 38-year-old hospital security guard was found face down and unresponsive in an operating room. It is unknown if resuscitation was attempted on site. The guard had been known to steal drugs from the hospital and had attempted suicide once previously. Postmortem toxicology was significant for blood concentrations of **isoflurane**, 2.4  $\mu$ g/mL; **metoprolol**, 0.17  $\mu$ g/mL; **diazepam**, 50 ng/mL;

and meperidine, 0.05  $\mu$ g/mL. His urine toxicology screen also showed the presence of paroxetine, butorphanol, morphine and THC.

**Case 607.** An 81-year-old man with end-stage prostate cancer was admitted to the hospital for intractable pain. He was given 60 mL of 2% viscous **lidocaine** to gargle, but unintentionally swallowed it. Thirty minutes after the incident he was reportedly asymptomatic. Activated charcoal was administered. He vomited and possibly aspirated the activated charcoal. He expired the following day.

**Case 611.** A 72-year-old man with a history of superior mesenteric artery thrombosis received parenteral **lepirudin** as a bolus instead of an infusion. He received a dose of 24 mg, calculated to be 0.44 mg/kg. Immediately after receiving the lepirudin he complained of numbness all over and then lost consciousness. Cardiac rhythms of atrial and ventricular fibrillation were noted. He expired shortly after the drug was administered.

**Case 615.** A 23-year-old man intentionally ingested **carbamazepine** in a suicide attempt. He presented to the ED with a carbamazepine concentration of 44  $\mu$ g/mL. He received one dose of activated charcoal in the ED. In the ICU he developed status epilepticus, requiring intubation and ventilation, and had QRS prolongation. His repeat carbamazepine concentration after two days was 116  $\mu$ g/mL. The patient suffered a cardiac arrest and died.

Case 635. An 18-year-old woman was found unresponsive after the ingestion of an estimated 60 zonisamide capsules. She experienced multiple tonic-clonic seizures and had copious airway secretions. During transport to the ED she experienced a cardiopulmonary arrest. Treatment with atropine, epinephrine and sodium bicarbonate resulted in a wide complex tachycardia. Treatment over the next hour with additional sodium bicarbonate and dopamine resulted in a narrow complex rhythm. A CT scan 24 hours after admission showed massive cerebral edema with tonsillar herniation. Brain death was confirmed. There was no evidence of anoxic injury to any other organ system. No other substances were involved by history although a TLC urine drug screen was positive for metabolites of mirtazapine, diphenhydramine and caffeine. Only caffeine was confirmed by GC/MS. There was no record of past mirtazapine availability or use and it is not known how zonisamide metabolites migrate in this TLC system. The highest serum zonisamide concentration was 44  $\mu$ g/mL (therapeutic up to 40  $\mu$ g/mL). The coroner ruled that her death was due to a zonisamide overdose.

**Case 740.** A 3-year-old boy was found dead by police, face down in a creek, after having been reported missing about 2 hours previously. Autopsy findings were consistent with drowning. Postmortem toxicologic analysis showed a blood **sertraline** concentration of 1,300 ng/mL and a norsertraline concentration of 580 ng/mL. The mother confessed to having given the child two sertraline capsules to quiet him down. The manner of death was listed as homicide.

**Case 761.** A 33-year-old woman was found seizing in her car with more than 100 **venlafaxine** tablets of various strengths. She had threatened suicide. In the ED she was in status epilepticus. Her blood pressure was 90/60 mm Hg with a heart rate of 150 beats/min. Her ECG showed sinus tachycardia. She rapidly developed ventricular fibrillation

and pulseless electrical activity. She could not be resuscitated and died approximately 2 hours after the ingestion. At autopsy, tablet fragments and activated charcoal were found in the stomach. Postmortem drug concentrations were: venlafaxine (160,000 ng/mL in aortic blood, 66,000 ng/mL in femoral blood and 340,000 ng/g in the liver) and o-desmethylvenlafaxine (15,000 ng/mL in aortic blood, 4,000 ng/mL in femoral blood and 25,000 ng/g in liver).

**Case 783.** A 30-day-old infant born at 25 weeks gestation, weighing 1 kg, was administered 1 mg of intravenous **amphotericin B** for treatment of gram negative sepsis. The baby developed bradycardia and hypotension after the drug was administered. He was subsequently removed from the ventilator and died.

**Case 786.** A 47-year-old man reportedly injecting 12 mL of **tilmicosin** and possibly an unknown amount of **flunixin** (both veterinary products) into his thigh in a presumed suicide attempt. The tilmicosin had reportedly expired. When EMS arrived 40 minutes later he was in respiratory arrest and hypotensive. He was ventilated on the way to the ED where he was started on dobutamine with minimal improvement. He then went into ventricular fibrillation and could not be resuscitated in spite of several rounds of defibrillation.

**Case 788.** A 49-year-old man was receiving **vincristine** intravenously and cytarabine intrathecally. The vincristine was administered intrathecally instead of intravenously. About 12 hours later the error was identified. The patient received continuous spinal drainage but expired two days later.

**Case 798.** A 77-year-old woman with a history of diabetes, hypertension, hypercholesterolemia, atrial fibrillation, myocardial infarction and CVA was sent to the ED when her physician noted an INR of 5.8 during a routine evaluation. The patient revealed that she had been taking **amiodarone** 400 mg three times each day for 2 months. It was intended that she take that dose for three weeks, then switch to a lower maintenance dose. Over the course of the hospitalization her AST rose to 4,610 U/L and her bilirubin to 3 mg/dL. No other identifiable cause was determined for her liver function abnormalities. The patient developed clinical signs of sepsis and died.

**Case 851.** A 16-month-old boy was ataxic and unable to stand after awakening from a nap. A partially filled **nifed-ipine** prescription was found in his bed. He was transported by car to the ED where he was found to be pulseless with agonal respirations. CPR was initiated. Several boluses of calcium chloride, sodium bicarbonate and epinephrine were administered followed by continuous infusions of calcium chloride and epinephrine. Heart rate and blood pressure were transiently stabilized. An initial arterial blood pH was 6.6. An intracardiac pacemaker was placed which initially captured. The child experienced recurrent episodes of bradycardia and hypotension, each treated with calcium and epinephrine. Glucagon was administered without effect. The child expired 17 hours after presentation.

**Case 856.** A 38-year-old woman presented to the hospital with a history of hypertension, congestive heart failure, end stage renal disease, pulmonary edema and pneumonia. Her blood pressure was 240/120 mm Hg at presentation. She was treated with intravenous nitroglycerin but then refused therapy as it caused headaches. She was placed on a labe-

talol infusion and had a generalized seizure and was intubated. A CT scan of her head was performed with no abnormalities found. She was then given intravenous nitroprusside and the labetalol was discontinued. She improved and was weaned off the nitroprusside after 12 to 14 hours. Sustained release nifedipine therapy was initiated. Approximately 3 to 4 hours later she suffered a cardiopulmonary arrest. She was resuscitated and started on norepinephrine, dopamine, and dobutamine for treatment of hypotension. The following morning she was weaned off norepinephrine and dopamine and her blood pressure was stable at 140/110 mm Hg. Therapy with oral labetalol (200 mg) and sustained release nifedipine (90 mg) was started. Approximately 1 to 2 hours later she suffered another cardiopulmonary arrest. She was successfully resuscitated and norepinephrine, dopamine and dobutamine were re-initiated at maximum infusion rates. She was also given 10 mL of 3% calcium gluconate that increased her heart rate from 40 to 60 beats/min but did not increase her blood pressure. She received 1 mg of glucagon with no response. External cardiac pacing captured, but had no effect on her blood pressure. She arrested again and was resuscitated with atropine and epinephrine. At that time she had a junctional rhythm at 60 beats/min and a blood pressure of 100/50 mm Hg, though both started to decline. It was determined that the oral medications (including the sustained release nifedipine) had been crushed and administered via the nasogastric tube. There was no response to a bolus of intravenous calcium and the patient expired.

**Case 857.** A 59-year-old man stated that he unintentionally tipped his bottle of **propafenone** back too far and ingested all 30 tablets at once. The patient went to the ED where he was given **activated charcoal**. He had a cardiopulmonary arrest and aspirated the charcoal he was drinking. The patient was resuscitated and intubated. He was transferred to a tertiary care facility where an EEG showed diffuse slowing, consistent with anoxic encephalopathy. After several days, life support was withdrawn and the patient expired.

**Case 862.** A 29-year-old man with a history of bipolar disease and prior suicide attempts was heard to collapse in his bedroom. He was brought to the ED in cardiopulmonary arrest and could not be resuscitated. An empty bottle of 100 **iron polysaccharide** 150 mg capsules was found near the patient. The patient had vomited before his collapse. No other information about the ingestion was known. Postmortem toxicology analysis revealed a heart blood iron concentration of 15,000  $\mu$ g/dL, a heart blood **propranolol** concentration of 13  $\mu$ g/mL and a femoral blood propranolol concentration of 4  $\mu$ g/mL.

**Case 873.** A 24-year-old prisoner ingested 60 **verapamil** 80 mg tablets and 40 **captopril** 25 mg tablets. When the ingestion was discovered about 6 hours later, he was taken to the infirmary. He underwent gastric lavage with no tablet fragments seen. He was transported to the ED where he had hypotension (80/40 mm Hg), bradycardia (50 to 60 beats/min), and a serum calcium of 7.8 mg/dL. His arterial blood pH was 7.28; pCO₂, 36 mm Hg; and pO₂, 96 mm Hg. He was given intravenous calcium chloride and calcium gluconate. Dopamine was also started for hypotension and decreased urine output. The patient complained of continuous back pain and was restless. He was given activated

charcoal by nasogastric tube. His abdomen became distended. The patient was dusky and his pupils were dilated and less responsive to light. He then developed ventricular fibrillation. CPR and defibrillation were performed without success. He died about 2 hours after ED presentation.

**Case 891.** A 4-month-old infant died after receiving a cold and allergy preparation containing **pseudoephedrine** and **brompheniramine** for a flu-like illness. The caregiver had been pouring the medicine from the bottle directly into the child's mouth. Postmortem heart blood concentration of pseudoephedrine was greater than 10  $\mu$ g/mL; and brompheniramine, 0.86  $\mu$ g/mL.

**Case 893.** A 3-year-old boy was found unresponsive by his mother. The child was intubated in the field and CPR was initiated. Resuscitation efforts were unsuccessful. The child had been treated for the previous three days for an upper respiratory infection. An empty bottle of a cough and cold preparation containing **chlorpheniramine**, **pseudoephedrine** and **dextromethorphan** was found. The child also had access to **brompheniramine**. Postmortem GC/MS analysis of cardiac blood revealed the following drug concentrations: chlorpheniramine 0.04  $\mu$ g/mL, brompheniramine 0.19  $\mu$ g/mL, dextromethorphan 0.009  $\mu$ g/mL and pseudoephedrine 4.8  $\mu$ g/mL.

**Case 894.** A 2-year-old, 15 kg boy was prescribed a cough and cold preparation containing **hydrocodone** (10 mg/5 mL) and **chlorpheniramine** (8 mg/5 mL) for cough suppression, to be administered at 1.5 mL per dose. A 30 mL bottle was dispensed. He received a single dose and was found dead 3 hours later. It was found that 10 mL were missing from the bottle.

**Case 900.** A 59-year-old woman, admitted for treatment of cellulitis, received 1.5 grams of intravenous **iron dextran** for treatment of anemia. She had been otherwise well except for Valley Fever. Her serum iron was 1,897  $\mu$ g/dL one day after iron administration. Over the next five days her lab values rose to: ALT, 1,914 U/L; AST, 9,943 U/L; INR, 6.9; and serum ammonia, 157  $\mu$ mol/L. She developed mental status changes followed by obtundation and a seizure, fixed and dilated pupils, intermittent ventricular tachycardia and fibrillation, minimal response to pain, and hyperkalemia. She was mechanically ventilated and on vasopressors. Intravenous deferoxamine was started and maximal supportive care continued. She had a cardiac arrest in the helicopter during transfer to a tertiary care facility and died.

Case 908. A 48-year-old woman was brought to the ED following an overdose of her mother's **levothyroxine**. The time of ingestion was unknown. The patient had overdosed on four previous occasions and was being treated for a bipolar affective disorder with olanzapine and valproic acid. She had reportedly taken 7 to 10 tablets of these in addition to the levothyroxine. On presentation to the ED her rectal temperature was 40 °C; blood pressure, 223/114 mm Hg; heart rate, 151 beats/min; respirations, 40 breaths/min; and oxygen saturation, 88% on room air and 97% on 6 liters of oxygen via nasal cannula. The patient appeared to be in thyroid storm, and propranolol and benzodiazepines were recommended. Within 20 minutes of arrival to the ED the patient suffered a tonic-clonic seizure, went into ventricular fibrillation and became pulseless and apneic. The patient was intubated, defibrillated three times and started on intravenous dopamine, epinephrine and atropine. A transcutaneous pacemaker was placed, but the only response was pulseless electrical activity. The patient did not respond to further resuscitation efforts and was pronounced dead.

**Case 918.** A 21-year-old man was receiving court-ordered **disulfiram**. He developed fulminant hepatic failure thought to be secondary to the disulfiram. He underwent a liver transplant and died of post operative complications.

Case 919. A 17-year-old medical center employee was found sitting with a cup containing pills and complaining of hearing loss, dizziness and "not feeling well". The pills were identified as quinine. He had previously been known to go through the trash looking for medications. The patient was brought to the ED where he became hypotensive and then had a cardiac arrest. After a difficult endotracheal intubation he was resuscitated but had persistent cardiac dysrhythmias. The patient was started on vasopressors and a sodium bicarbonate infusion. He became progressively more hypotensive with an idioventricular rhythm that did not respond to calcium. He was also started on mannitol for presumed anoxic encephalopathy. He developed acidosis, hypotension, acute respiratory distress syndrome and multiorgan failure and expired the next day. A blood quinine concentration done several hours after admission was 14  $\mu$ g/mL.

**Case 958.** A 4-month-old, 9 kg infant, received 450 mg of **chloral hydrate** for sedation before a CT scan. The level of sedation was inadequate 30 minutes after dosing and the child was administered an additional 225 mg. Three hours later the child had a cardiopulmonary arrest and died. A trichloroethanol concentration at the time of attempted resuscitation was 24  $\mu$ g/mL.

**Case 988.** A 50-year-old HIV positive suicidal man who worked in an animal shelter was found at home with agonal breathing after an overdose of veterinary **pentobarbital**. The route of administration was unknown. He arrived in the ED in cardiopulmonary arrest. He was intubated and started on an epinephrine infusion with restoration of a heart rhythm. Over several hours his cardiovascular status deteriorated and he died 9 to 10 hours after the exposure.

**Case 1024.** A 16-year-old boy ingested several zippersealed bags of **cocaine** while fleeing from authorities. He immediately collapsed. EMS was unable to intubate him and he died. At autopsy bags of cocaine were found lodged in the trachea, causing asphyxia.

Case 1123. Paramedics and police were called to the residence of a 27-year-old man because of his altered mental status. In the ED he was normotensive and described as alert and oriented. He gave the history that three days previously he had swallowed a balloon containing methamphetamine. The day prior to admission he noticed balloon fragments in his stool and his family began to notice behavioral changes. In the hospital his mental status deteriorated rapidly. The medical record indicates that he was found "swinging from an IV ceiling mount" while simultaneously "masturbating, barking and meowing". Shortly afterwards he collapsed. His rectal temperature was 42.2 °C. His temperature was lowered with external cooling and he was intubated. The patient was initially hypertensive but became hypotensive. His heart rate was 170 beats/min. The patient became acidotic and developed a gastrointestinal bleed. He also required vasopressor therapy for hypotension, which became intractable. Nineteen hours after admission the patient had a cardiopulmonary arrest and could not be resuscitated. Autopsy revealed both pulmonary and cerebral edema. Multiple "ruptured small balloons with firm contents" were found in the stomach and intestinal tract, together with necrosis throughout the small and large intestines. Postmortem methamphetamine blood concentrations were 16  $\mu$ g/mL (heart) and 10  $\mu$ g/mL (femoral).

**Case 1135.** A 16-year-old girl at a party told her friends that she took **methylenedioxymethamphetamine (MDMA)**, although the ingestion was not witnessed. Later that evening she was feeling ill and was given a lot of water to drink. She later vomited and went to bed. The next morning her friend went back to the scene of the party looking for her. The patient was found on the bedroom floor. They believed that she had a pulse at that time. They transported her by car to the ED; she arrived in asystole. CPR was initiated but the patient did not survive. Postmortem toxicology revealed a blood methylenedioxymethamphetamine concentration of 1.32  $\mu$ g/mL.