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MORBIDITY AND MORTALITY WEEKLY REPORT


Current Trends

## Toy Safety - United States, 1983

The U.S. Consumer Product Safety Commission (CPSC) estimated that, in 1983, 594,100 toy-relàted injuries to children under 15 years of age were treated in U.S. hospital emergency rooms (Table 1); 16 children died (Table 2). Most injuries occurred from impacts with toys (falling on, tripping over, or hit by). Choking from ingestion of small toys or parts of toys was the second most frequently reported incident. Half the deaths involved children who choked on balloons, rode tricycles into pools, or were struck by motor vehicles while riding tricycles.

These incidents often involved children who may have been too young to use the toys - such as balloons, crayons, marbles, small building toy pieces, and stuffed crib toys-as they were intended. Parts of the toys were ingested, or pieces were broken or bitten off and put into the nose, ear, or mouth. Small riding toys and rocking horses were involved in tip-over and falling incidents and sometimes resulted in head/face injuries to children in the 1 -year age group. Toys with cords, including play phones that entangled some very young children, kites with metallic twine that contacted power lines and caused electrocution or burns, and electric or battery-powered toys that overheated, melted, and resulted in fires caused other toyrelated injuries in 1983.
Editorial Note: CPSC has mandatory safety standards for electric toys, bicycles, pacifiers, and infant rattles, toys with sharp points and edges, lead paint in toys, and small parts in toys. Approximately 150,000 different toys are on the market, and toy manufacturers are responsibile for assuring that products meet these standards. Many manufacturers have extensive testing programs. Although CPSC does some testing to check for compliance and to follow up on consumer complaints, it does not approve or endorse toys for safety.

During 1983, CPSC investigated consumer and trade complaints and reports of injuries and deaths by conducting inspections of toy manufacturers, importers, and distributors and

TABLE 1. Estimated injuries among children under 15 years old treated in hospital emergency rooms - United States, 1983

|  | Cause of injury |
| :--- | :--- |
| Toys | No. injuries |
| Bicycles | 118,000 |
| Sleds | 387,300 |
| Skates | 16,600 |
| Skateboards | 61,900 |
|  | 10,300 |
| Total | 594,100 |

[^0]by collecting samples of suspected unsafe toys. CPSC determines the appropriate corrective action based on the severity of the hazard presented by the subject toy, which may include: correcting the violation in future production, ceasing distribution, recalling from retail stores, and recalling from consumers.

Approximately 39 toys and 11 other children's articles were recalled between October 1 , 1983, and September 30, 1984. Several infant rattles were recalled because they presented a choking hazard. Manufacturers are responsible for notifying retailers when a product is recalled and should be removed from shelves; banned or recalled toys are removed from shelves.

The Toy Manufacturers of America (TMA) has a Voluntary Product Standard that establishes safety requirements and tests. This standard is currently being revised to cover additional safety requirements. Manufacturers have extensive testing programs, both to assure compliance with federal and voluntary standards and to conduct actual "play testing" of toys by children.

CPSC and TMA recommend the following guidelines for selecting and using safe toys:

1. Toys should be selected to suit the age, skills, abilities, and interests of the individual child. There are age recommendations on many toy packages, which sometimes reflect safety concerns, in addition to aiding in selection of stimulating, educational toys.
2. If supervision is required, "ground rules" for play should be set.
3. Instructions should be clear to parents and, when appropriate, to the child.
4. Toys should be sturdily constructed. Soft toys for young children should be well made, with eyes, noses, and other small parts tightly secured.
5. For infants and toddlers, small parts that children can put in their mouths and long strings or cords that can cause strangulation should be avoided.
6. Toys that shoot or propel objects that can injure eyes or become lodged in the throat should be avoided.
7. Arrows or darts should have soft cork tips, rubber suction cups, or other protective tips. Tips should be securely attached to their shafts and should be examined periodically to ensure the protective tips remain secured.
8. Electric toys with heating elements are recommended only for children over 8 years of age and only with adult supervision.
9. The surroundings in which toys will be used should be considered, as should sufficiency of toy storage and play space, and whether young children will be exposed to toys designed for older children.
CPSC has a toll-free telephone number ([800] 638-2772) that consumers and others can call to ask questions, request information, or file complaints.
Reported by U.S. Consumer Product Safety Commission, Washington, D.C.
TABLE 2. Reported fatalities associated with toys and other children's products United States, 1983

| Toy/Other | No. fatalities | Nature of injury leading to death |
| :--- | :---: | :--- |
| Balloons | 5 | Choking |
| Tricycles | 3 | Hit by auto (1); rode into pool/spa (2) |
| Small toy (soldier) | 1 | Choking |
| Small part (knob on | 1 |  |
| $\quad$ child's jewelry box) | 1 | Choking |
| Building toy piece | 1 | Aspiration |
| Toy whip | 1 | Hanging from tree |
| Doll-making kit | 1 | Plastic face over child's mouth |
| Unnamed toy | 1 | Struck head falling |
| Beach ball | 1 | Drowned while playing |
| Toy chest (homemade) | Neck compression |  |

# Temporal Patterns of Motor-Vehicle-Related Fatalities Associated with Young Drinking Drivers - United States, 1983 

Analysis of data from the Fatal Accident Reporting System (FARS) reveals that there were 37,971 reported fatal motor-vehicle incidents in 1983, resulting in 42,584 fatalities. Alcohol was an important contributing factor in $17,847(42 \%)$ of these deaths. Of the 54,649 drivers involved in these incidents, $16,483(30 \%)$ had positive blood-alcohol concentration test results or were judged by the investigating officers to be alcohol-involved. Thirty-three percent $(17,764)$ of all drivers in fatal motor-vehicle incidents were between the ages of 16 years and 24 years. Thirty-eight percent $(6,833)$ of the drivers from this age group were alcoholinvolved, compared to $26 \%$ for all other ages. In 1983, incidents involving young drinking drivers claimed 7,784 lives, of which $3,992(51 \%)$ were the young drivers themselves.*

Several studies have indicated that motor-vehicle-associated deaths involving young drinking drivers are not uniformly distributed temporally (2-4). For example, more fatalities occur during nighttime rather than daytime and on weekends rather than weekdays. Analysis of 1983 FARS data for youth-related alcohol-involved fatalities supports and expands these findings. Temporal patterns of fatalities were investigated by quarter, month, day of week and time of day, and holiday period. Examination of the frequency of fatalities by quarter shows that the third quarter (July-September) accounts for the largest proportion of fatalities, followed by the second, fourth, and first quarters (Table 3).

An examination of monthly totals for alcohol-involved young driver-related fatalities reveals a more detailed picture of the quarterly pattern. January has the fewest fatalities for the

[^1]TABLE 3. Motor-vehicle-related fatalities associated with young drinking drivers, by quarter and month - United States, 1983

| Quarter and month | Fatalities <br> No. (\%) |
| :--- | :---: |
| First | $1,527(19.6)$ |
| January | $465(6.0)$ |
| February | $490(6.3)$ |
| March | $572(7.3)$ |
|  |  |
| Second | $2,089(26.9)$ |
| April | $658(8.5)$ |
| May | $738(9.5)$ |
| June | $693(8.9)$ |
|  |  |
| Third | $2,360(30.3)$ |
| July | $821(10.5)$ |
| August | $806(10.4)$ |
| September | $733(9.4)$ |
|  | $1,808(23.2)$ |
| Fourth | $724(9.3)$ |
| October | $583(7.5)$ |
| November | $501(6.4)$ |
| December | $7,784(100.0)$ |
| Total |  |
|  |  |

## Motor-Vehicle-Related Fatalities - Continued

year. From January through May, the frequency of fatalities rises steadily, followed by a slight drop in June. Fatalities peak in July and August, then decline from September through December.

Temporal patterns of fatalities associated with young drinking drivers also vary depending on the day of the week and the time of day of the incident (Figure 1). Approximately 67\% of all such deaths occur on Friday, Saturday, or Sunday. Seventy percent of all such deaths occur between 8 p.m. and 4 a.m. When these two factors are considered simultaneously, $48 \%$ of all such deaths occur between $8 \mathrm{p} . \mathrm{m}$. and $4 \mathrm{a} . \mathrm{m}$. on the weekend.

The number of persons killed in motor-vehicle incidents involving young drinking drivers for the major holiday periods (5,6), Memorial Day, Independence Day, and Labor Day accounts for $65 \%$ of all holiday fatalities (Figure 2). The numbers of fatalities for these holidays were greater than those for similar quarterly nonholiday days of the week and times of day, while fewer young drinking driver-related fatalities occurred for the New Year's, Thanksgiving, and Christmas holiday periods.
Reported by T Zobeck, PhD, MB Grigson, Alcohol Epidemiologic Data System, CSR, Incorporated, J Noble, H Malin, MA, Div of Biometry and Epidemiology, National Institute on Alcohol Abuse and Alcoholism, Washington, DC; Epidemiologic Studies Br, Div of Surveillance and Epidemiologic Studies, Epidemiology Program Office, Special Studies Br, Chronic Diseases Div, Center for Environmental Health, CDC.
Editorial Note: Many fatal motor-vehicle-related injuries are associated with young drivers, particularly those who are alcohol-involved. Nonetheless, although alcohol use is clearly a risk factor for fatal vehicular injuries among young persons, the increased risk of incurring such injuries when drinking is not limited to young drivers.

The prevention of alcohol-associated motor-vehicle deaths and injuries has been a subject of scientific scrutiny (7). Research indicates that drunk-driving laws can have an effect in reducing fatality rates only when there is sustained public perception of a significant possibili-

FIGURE 1. Temporal patterns of fatalities associated with young drinking drivers, by day of week and time of day - United States, 1983

ty of arrest and conviction with severe penalty matched by a significant and sustained increase in the number of arrests and convictions.

Other proven methods in reducing motor-vehicle fatalities and injuries associated with younger drivers include raising the legal age for the consumption and purchase of alcohol, raising the aye of motor-vehicle licensure, and instituting a well-enforced curfew system to restrict night driving.

## References

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FIGURE 2. Motor-vehicle-associated fatalities involving young drinking drivers, by holiday* and equi valent nonholiday ${ }^{\dagger}$ periods - United States, 1983

-The complete holiday period was defined according to the National Safety Council (5) as lasting from 6 p.m. Friday to 12 midnight Monday, except for Thanksgiving, which was from 6 p.m. Wednesday to 12 midnight Sunday, and the New Year's holiday period. The complete New Year's holiday period was defined as lasting from 12:01 a.m. January 1, 1983, through 12 midnight January 2, 1983, and from 6 p.m., December 30, 1983, through 12 midnight, December 31, 1983.
${ }^{\dagger}$ The number of nonholiday fatalities for all equivalent periods (same quarter of year, day of week, and time of day as was found in the corresponding holiday period) was divided by the number of nonholiday equivalent periods. These were added to obtain the mean number of fatalities for the complete nonholiday equivalent period.

## Measles - Hawaii

Between May 5, and June 29, 1984, 106 cases of measles were reported on the island of Kauai, Hawaii (Figure 3). All met the clinical case definition* for measles; 25 cases were serologically confirmed. ${ }^{\dagger}$ Four distinct generations of illness were identified $10-12$ days apart. The second generation (May 17-28) was the largest, with 35 ( $33 \%$ ) cases. No source was identified. Seven children ( $7 \%$ ) of the 106 patients were hospitalized secondary to measles. Three were hospitalized for diarrhea and dehydration, and four, for evaluation.

The single largest group of cases, 52 ( $49 \%$ ), occurred among children under 5 years of age, including 36 ( $34 \%$ ) under 16 months of age (Table 4). Persons 15-19 years of age were the next largest group, accounting for 27 ( $25 \%$ ) cases. Forty-five ( $42 \%$ ) of the cases occurred among school-aged children (5-19 years). Although more than two-thirds of the first generation occurred among school-aged children (15/22), the second generation occurred mainly in
*Cases meeting the CDC measles case definition defined as: (1) generalized maculopapular rash for 3 days or more; (2) fever of $38.3 \mathrm{C}(101 \mathrm{~F})$ or higher, if measured; and (3) cough, coryza, or conjunctivitis. ${ }^{\dagger}$ Either by a fourfold rise between acute and convalescent measles titers or a measles-specific immunoglobulin M .
(Continued on page 707)
TABLE I. Summary-cases of specified notifiable diseases, United States

| Disease | 50th Week Ending |  |  | Cumulative, 50th Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Dec. 15, } \\ 1984 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Dec. } 17, \\ 1983 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1979-1983 \end{gathered}$ | $\begin{gathered} \text { Dec. } 15, \\ 1984 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Dec. 17 } \\ 1983 \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1979-1983 \\ \hline \end{gathered}$ |
| Acquired Immunodeficiency Syndrome (AIDS)* | 135 | 49 | N | 4,203 | 2,012 | N |
| Aseptic meningitis | 134 | 209 | 170 | 7,852 | 12,167 | 9,265 |
| Encephalitis: Primary (arthropod-borne \& unspec.) | 21 | 19 | 19 | 1.131 | 1.778 | 1.478 |
| Post-infectious | 1 | 4 | 4 | 82 | 91 | 91 |
| Gonorrhea: Civilian | 19,453 | 18,664 | 20.495 | 806,245 | 869,203 | 964,060 |
| Military | 253 | 428 | 601 | 19,605 | 23,154 | 25,893 |
| Hepatitis: Type A | 458 | 379 | 596 | 20,668 | 20.522 | 24,581 |
| Type B | 685 | 571 | 463 | 25,054 | 23.130 | 20.088 |
| Non A, Non B | 75 | 66 | N | 3,590 | 3.292 | N |
| Unspecified | 124 | 121 | 206 | 5,238 | 6.951 | 10,089 |
| Legionellosis | 13 | 19 | N | 628 | 734 | N |
| Leprosy | 4 | 7 | 5 | 226 | 233 | 227 |
| Malaria | 10 | 9 | 16 | 946 | 769 | 1.011 |
| Measles: Total ${ }^{-*}$ | 13 | 11 | 42 | 2,524 | 1.442 | 2.946 |
| Indigenous | 13 | 10 | N | 2,232 | 1,139 | N |
| Imported | - | 1 | N | 292 | 304 | N |
| Meningococcal infections: Total | 46 | 36 | 46 | 2,564 | 2,600 | 2,600 |
| Civilian <br> Military | 46 | 35 1 | 46 | 2,559 5 | 2,584 16 | 2,584 16 |
| Mumps | 68 | 139 | 139 | 2,807 | 3.237 | 5,146 |
| Pertussis | 14 | 67 | 40 | 2,081 | 2.270 | 1,610 |
| Rubella (German measles) | 7 | 12 | 25 | 729 | 938 | 2,255 |
| Syphilis (Primary \& Secondary): Civilian | 591 | 612 | 612 | 26.519 | 31,000 | 30,023 |
| Military | 4 | 8 | 7 | 275 | 375 | 357 |
| Toxic Shock syndrome | 6 | 14 | N | 446 | 416 | ${ }^{\text {N }}$ |
| Tuberculosis | 599 | 601 | 616 | 20,758 | 22,663 | 26.125 |
| Tularemia | 5 | 4 | 9 | 284 | 289 | 250 |
| Typhoid fever | 7 | 8 | 8 | 358 | 446 | 486 |
| Typhus fever, tick-borne (RMSF) | 3 | 3 49 | $\begin{array}{r}7 \\ \hline 1\end{array}$ | 848 | 1.095 | 1.095 |
| Rabies, animal | 46 | 49 | 61 | 5,089 | 5,719 | 5,990 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1984 |  | Cum. 1984 |
| :---: | :---: | :---: | :---: |
| Anthrax | 1 | Plague | 31 |
| Botulism: Foodborne | 19 | Poliomyelitis: Total | 4 |
| Infant (Calif. 1) | 90 | Paralytic | 4 |
| Other | 6 | Psittacosis (Mich. 1) | 87 |
| Brucellosis (Tex. 1) | 119 | Rabies, human | 3 |
| Cholera | 1 | Tetanus | 64 |
| Congenital rubella syndrome | 4 | Trichinosis | 61 |
| Diphtheria Leptospirosis | 1 30 | Typhus fever, flea-borne (endemic, murine) (Tex. 1) | 36 |
| Leptospirosis | 30 |  |  |

- The 1983 reports which appear in this table were collected before AIDS became a notifiable condition.
- There were no cases of internationally imported measles reported for this week.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
December 15, 1984 and December 17, 1983 (50th Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspeci- fied |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ | 1984 | 1984 | 1984 | 1984 | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |
| UNITED STATES | 4,203 | 134 | 1.131 | 82 | 806,245 | 869,203 | 458 | 685 | 75 | 124 | 13 | 226 |
| NEW ENGLAND | 144 | - | 47 | 3 | 22,241 | 22,931 | 5 | 46 | 4 | 14 | - | 11 |
| Maine | - | - | - | - | 979 | 1.084 | 1 | 2 | - | , | - | . |
| N.H. | 3 | - | 7 | - | 701 | 712 | 1 | 3 | - | - | - | - |
| Vt . | 1 | - | 5 | - | 370 | 425 | - | 1 | - | - | - |  |
| Mass. | 80 | - | 21 | - | 9.473 | 10,026 | 1 | 26 | 1 | 13 | - | 6 |
| R.I. | 6 | - | 2 | - | 1,586 | 1,245 | , | 3 | 1 | 13 | - | 4 |
| Conn. | 54 | - | 14 | 3 | 9.132 | 9.439 | 3 | 11 | 3 | 1 | - | 1 |
| MID ATLANTIC | 1.852 | 25 | 125 | 9 | 108,235 | 112.515 | 62 | 180 | 1 | 17 | 1 | 36 |
| Upstate N.Y. | 157 | 6 | 41 | 7 | 17,459 | 18,158 | 8 | 17 | - | 2 | - | 3 |
| N.Y. City | 1.344 | 1 | 11 | . | 41,962 | 45,252 | 40 | 111 | - | 9 | 1 | 31 |
| N.J. | 262 | 5 | 28 | - | 19,178 | 20,937 | 5 | 17 | 1 | 3 | - | 31 |
| Pa. | 89 | 13 | 45 | 2 | 29,636 | 28,168 | 9 | 35 | - | 3 | - | 2 |
| E.N. CENTRAL | 183 | 19 | 328 | 18 | 116.524 | 124.229 | 18 | 46 | 1 | 3 | 2 | 7 |
| Ohio | 20 | 6 | 105 | 9 | 30.816 | 31.972 | 4 | 19 | 1 | 1 | 2 | 3 |
| Ind. | 25 | 1 | 82 | - | 12,271 | 11,954 | 2 | 9 | - | - | - |  |
| III. | 98 | 2 | 37 | 6 | 27,367 | 35,689 | 3 | - | - | - | - | 2 |
| Mich. | 30 | 10 | 67 | - | 33,371 | 33,380 | 9 | 18 | - | 2 | 2 | 2 |
| Wis. | 10 | - | 37 | 3 | 12.699 | 11.234 | - | - | - | - | - | - |
| W.N. CENTRAL | 41 | 5 | 99 | 3 | 40.178 | 40.913 | 7 | 19 | 3 | - | 1 | 4 |
| Minn. | 11 | - | 46 | - | 6.009 | 5,706 | - | - | - | - | - | 2 |
| lowa | 2 | 2 | 32 | - | 4,409 | 4,433 | 2 | 6 | - | - | - | 1 |
| Mo. | 23 | 3 | 11 | - | 19.218 | 20.064 | - | 8 | 2 | - | - | 1 |
| N. Dak. | - | - | - | - | 385 | 428 | - |  | 2 | - | - | - |
| S. Dak. | - | - | 2 | 1 | 963 | 1.020 | 4 | 2 | - | - | - | . |
| Nebr. | 3 | - | 1 | - | 2.978 | 2,685 | - | 1 | - | - | 1 | - |
| Kans. | 2 | - | 7 | 2 | 6.216 | 6.577 | 1 | 2 | 1 | - | - | - |
| S. ATLANTIC | 540 | 34 | 173 | 17 | 196.574 | 225,574 | 39 | 114 | 27 | 10 | 6 | 14 |
| Del. | 5 | 1 | 1 | - | 3,905 | 4.130 | 4 | 1 | - | - | 1 | - |
| Md. | 51 | 4 | 33 | - | 23,353 | 28.870 | - | 9 | 2 | 2 | 1 | 1 |
| D. C. | 83 | 2 | , | - | 14.634 | 15,344 | - | 1 | 1 | - | - | 1 |
| Va . | 38 | 9 | 31 | 5 | 19.411 | 20,548 | 17 | 32 | 10 | 2 | 1 | 4 |
| W. Va. | 5 | - | 40 | - | 2.642 | 2.541 | - | 2 | 10 | - | - | - |
| N.C. | 14 | 4 | 33 | 7 | 33.186 | 34.522 | 1 | 18 | 2 | - | 1 | - |
| S.C. | 8 | 2 | 5 | - | 20.960 | 20.619 | 2 | 10 | 1 | - | - | - |
| Ga. | 56 | 2 | 2 | 2 | 28.722 | 47.441 | 2 | 11 | 2 | - | 1 | 1 |
| Fla. | 280 | 10 | 28 | 3 | 49.761 | 51,559 | 13 | 30 | 9 | 6 | 1 | 7 |
| E.S. CENTRAL | 25 | 6 | 53 | 8 | 73.176 | 73.031 | 10 | 36 | 4 | 6 | - | - |
| Ky. | 10 | - | 13 | - | 8.632 | 8.627 | 6 | - | - | 2 | - | - |
| Tenn. | 6 | - | 17 | 1 | 29,532 | 29.905 | 3 | 21 | - | 2 | - | - |
| Ala. | 6 | 5 | 20 | 6 | 22,109 | 22.529 | - | 13 | 4 | 2 | - | - |
| Miss. | 3 | 1 | 3 | 1 | 12,903 | 11,970 | 1 | 2 | - | - | - | - |
| W.S. CENTRAL | 290 | 12 | 107 | 4 | 109.265 | 121.161 | 77 | 43 | 3 | 32 | 1 | 24 |
| Ark. | 1 | - | - | 2 | 9.743 | 9,631 | 7 | 2 | - | 4 | - | 1 |
| La. | 44 | - | 12 | - | 23,835 | 23,405 | 1 | 4 | 1 | 3 | - | 1 |
| Okla | 9 | 2 | 19 | 1 | 12.050 | 13,850 | 7 | 9 | - | 5 | - | - |
| Tex. | 236 | 10 | 76 | 1 | 63,637 | 74,275 | 62 | 28 | 2 | 20 | 1 | 22 |
| MOUNTAIN | 71 | 8 | 34 | 11 | 26,770 | 27,634 | 52 | 53 | 7 | 13 | 1 | 8 |
| Mont. | - | - | - | - | 1.016 | 1.193 | 2 | 1 | 1 | - | - | - |
| Idaho | - | - | - | - | 1.250 | 1.236 | - | - | - | - | - | - |
| Wyo. | 1 | - | - | - | 712 | 725 | - | - | - | - | - | - |
| Colo. | 36 | 2 | 12 | - | 7.666 | 7.715 | 10 | 6 | 1 | 5 | - | - |
| N. Mex. | 2 | - | - | - | 3.190 | 3.416 | 5 | 18 | - | 2 | - | - |
| Ariz. | 19 | 2 | 12 | 3 | 7,605 | 7.857 | 9 | 15 | 3 | 5 | - | 6 |
| Utah | 7 | 3 | 10 | 8 | 1.253 | 1,323 | 14 | 8 | 2 | 1 | 1 | 1 |
| Nev. | 6 | 1 | - | - | 4.078 | 4.169 | 12 | 5 | - | - | - | 1 |
| PACIFIC | 1.057 | 25 | 165 | 9 | 113.282 | 121.215 | 188 | 148 | 25 | 29 | 1 | 122 |
| Wash. | 54 | 1 | 9 | - | 8,446 | 9.495 | 7 | 2 | 2 | - | - | 8 |
| Oreg. | 14 | - | - | - | 6.403 | 6,438 | 19 | 11 | 4 | 2 | - | 2 |
| Calif. | 975 | 20 | 152 | 9 | 93.753 | 99,994 | 162 | 131 | 19 | 27 | 1 | 92 |
| Alaska | 2 | - | - | - | 2,792 | 3.046 | - | 1 | - | - | - | O |
| Hawaii | 12 | 4 | 4 | - | 1,888 | 2,242 | - | 3 | - | - | . | 20 |
| Guam | - | U | - | - | 103 | 130 | U | U | U | U | U | - |
| P.R. | 69 | 2 | 3 | 2 | 3.180 | 2.615 | 2 | 24 | U | U | U | 5 |
| V.I. | - | U | - | - | 427 | 316 | U | U | U | U | U | 5 |
| Pac. Trust Terr. | - | U | - | - | - | - | U | U | U | U | U | - |

$N$ : Not notifiable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
December 15, 1984 and December 17, 1983 (50th Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported * |  | $\begin{aligned} & \hline \text { Total } \\ & \hline \text { Cum. } \\ & 1983 \end{aligned}$ |  |  |  |  |  |  |  |  |  |
|  | Cum. 1984 <br> 1984 | 1984 | Cum. 1984 | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ |
| UNITED STATES | 946 | 13 | 2,232 | - | 292 | 1,442 | 2,564 | 68 | 2,807 | 14 | 2.081 | 2.270 | 7 | 729 | 938 |
| NEW ENGLAND | 47 | - | 94 | - | 12 | 21 | 174 | 2 | 95 | 2 | 70 | 73 | 1 | 22 | 19 |
| Maine | . | - | - | - | - |  | 1 | - | 29 | 2 | 4 | 5 | 1 | 1 | 19 |
| N.H. | 7 | - | 33 | - | 3 | 3 | 11 | 1 | 20 | - | 14 | 10 | - | 1 | 5 |
| Vt . | 7 | - | 2 | - | 5 | - | 30 | - | 5 | - | 23 | 8 | - | - | 5 |
| Mass. | 26 | - | 49 | - | . | 9 | 70 | 1 | 21 | 2 | 21 | 38 | 1 | 19 | 7 |
| R.I. | 4 | - | $10^{-}$ | - | - | - | 18 | - | 11 | . | 4 | 5 | . | 19 | 7 |
| Conn. | 10 | - | 10 | - | 4 | 9 | 44 | - | 9 | - | 4 | 7 | - | 1 | 2 |
| MID ATLANTIC | 143 | - | 135 | - | 44 | 119 | 439 | 17 | 330 | - | 195 | 384 | 1 | 231 | 145 |
| Upstate N.Y. | 28 | - | 42 | - | 14 | 18 | 139 | 3 | 99 | - | 108 | 118 | - | 99 | 30 |
| N.Y. City | 48 | - | 89 | - | 20 | 71 | 87 | 5 | 35 | - | 16 | 56 | 1 | 105 | 86 |
| N.J. | 37 | - | 4 | - | 3 | 27 | 86 | . | 138 | - | 13 | 20 | , | 23 | 3 |
| Pa. | 30 | - | - | - | 7 | 3 | 127 | 9 | 58 | - | 58 | 190 | - | 4 | 26 |
| E.N. CENTRAL | 84 | - | 617 | - | 75 | 717 | 411 | 25 | 1.081 | 3 | 463 | 502 | 2 | 98 | 138 |
| Ohio | 20 | - | 3 | - | 6 | 87 | 136 | 12 | 505 | 3 | 79 | 151 | . | 2 | 2 |
| Ind. | 4 | - | 2 | - | 1 | 406 | 51 | 2 | 76 | - | 241 | 60 | - | 5 | 27 |
| 1 II . | 28 | - | 179 | - | 1 | 216 | 88 | 4 | 191 | - | 26 | 175 | 2 | 61 | 61 |
| Mich. | 17 | - | 411 | - | 54 | 7 | 85 | 7 | 194 | . | 31 | 42 | . | 22 | 19 |
| Wis. | 15 | - | 22 | - | 13 | 1 | 51 | - | 115 | - | 86 | 74 | . | 8 | 29 |
| W.N. CENTRAL | 24 | - | 49 | - | 9 | 8 | 163 | - | 108 | 1 | 127 | 178 | - | 39 | 43 |
| Minn. | 7 | - | 44 | - | 3 | 1 | 35 | - | 7 | - | 16 | 48 | - | 4 | 9 |
| lowa | 2 | - | - | - | - | - | 23 | - | 25 | - | 14 | 9 | - | 1 | - |
| Mo. | 8 | - | 5 | - | 1 | 1 | 52 | - | 10 | - | 20 | 23 | - | - | - |
| N. Dak. | 1 | - | - | - | . | - | 2 | - | 2 | - | - | 3 | - | 3 | - |
| S. Dak. | 1 | - | - | - | - | - | 6 | - | - | - | 9 | 8 | - | . | - |
| Nebr. | 3 | - | - | - | - | - | 13 | - | 4 | - | 13 | 4 | - | - | - |
| Kans. | 2 | - | - | - | 5 | 6 | 32 | - | 60 | 1 | 55 | 83 | - | 31 | 34 |
| S. ATLANTIC | 129 | - | 19 | - | 33 | 206 | 528 | 6 | 204 | 4 | 172 | 266 | 1 | 29 | 102 |
| Del. | 4 | - | - | - | - | - | 4 | - | 3 | - | 2 | 5 | - | 2 | - |
| Md. | 31 | - | 8 | - | 14 | 11 | 40 | 1 | 42 | - | 13 | 34 | - | 1 | 3 |
| D.C. | 1 | - | - | - | 5 | - | 8 | - | - | - | - | - | - | - | - |
| Va . | 35 | - | 1 | - | 4 | 23 | 67 | 1 | 19 | - | 15 | 50 | - | 1 | 2 |
| W. Va. | 1 | - | - | - | - | - | 5 | 2 | 41 | - | 11 | 9 | - | - | - |
| N.C. | 12 | - | - | - | 1 | 1 | 85 | - | 22 | 1 | 37 | 31 | - | - | 10 |
| S.C. | 2 | - | - | - | - | 4 | 57 | - | 5 | - | 1 | 14 | - | - | 1 |
| Ga. | 15 | - | 1 | - | 1 | 8 | 101 | - | 22 | - | 18 | 70 | - | 2 | 16 |
| Fla. | 28 | - | 9 | - | 8 | 159 | 161 | 2 | 50 | 3 | 75 | 53 | 1 | 23 | 70 |
| E.S. CENTRAL | 11 | - | 1 | - | 5 | 27 | 141 | - | 55 | - | 14 | 33 | - | 20 | 19 |
| Ky. | 2 | - | 1 | - | - | 1 | 50 | - | 11 | - | 2 | 14 | - | 14 | 18 |
| Tenn. | 2 | - | - | - | 2 | - | 40 | - | 17 | - | 7 | 8 | - | - | - |
| Ala. | 7 | - | - | - | 3 | 5 | 34 | - | 6 | - | 1 | 5 | - | 3 | 1 |
| Miss. | - | - | - | - | - | 21 | 17 | - | 21 | - | 4 | 6 | - | 3 | - |
| W.S. CENTRAL | 84 | - | 596 | - | 25 | 79 | 288 | 4 | 183 | - | 329 | 451 | - | 68 | 120 |
| Ark. | - | - | 8 | - | - | 13 | 49 | - | 8 | - | 19 | 26 | - | 3 | - |
| La. | 9 | - | 8 | - | - | 29 | 57 | - | - | - | 10 | 12 | - | - | 10 |
| Okla. | 10 | - | - | - | 8 | 1 | 28 | N | N | - | 241 | 330 | - | 5 | - |
| Tex. | 65 | - | 580 | - | 17 | 36 | 154 | 4 | 175 | - | 59 | 83 | - | 65 | 110 |
| MOUNTAIN | 28 | - | 113 | - | 32 | 34 | 85 | 5 | 263 | - | 122 | 232 | - | 22 | 37 |
| Mont. | 2 | - | 1 | - | - | 4 | 2 | 1 | 11 | - | 19 | 2 | - | 1 | 3 |
| daho | 2 | - | - | - | 23 | 10 | 10 | - | 10 | - | 7 | 16 | - | 1 | 8 |
| Wyo. | 7 | - | - | - | 6 | 1 | 3 | - | 2 | - | 6 45 | 6 134 | - | 3 | 9 |
| Colo. | 7 | - | - | - | 6 | 3 | 30 | N | 28 | - | 45 | 134 13 | - | 2 | 1 |
| V. Mex. | 1 | - | 88 | - | - | - | 8 | N | N | - | 12 | 13 29 | - | 1 | 8 |
| Ariz. | 11 | - | - | - | 1 | 1 | 17 | 3 | 194 | - | 24 | 29 31 | - | 4 | 8 |
| Utah | 5 | - | 25 | - | 2 | 15 | 9 | 1 | 11 .7 | - | 7 2 | 31 1 | - | 7 4 | 7 1 |
| Nev. | - | - | - | - | - | - | 6 | 1 | 7 | - | 2 | 1 | - | 4 | 1 |
| PACIFIC | 396 | 13 | $608$ | - | $57$ | 231 | 335 | 9 | 488 | 4 | 589 | 151 | 2 | 200 | 315 |
| Wash. | 20 | 13 | 157 | - | 15 | 35 | 53 | 1 | 53 | - | 321 30 | 20 10 | - | 2 2 | 9 14 |
| Oreg. | 14 | 1 | - | - | 38 | 10 | 49 | N | N | 4 | 30 161 | 10 114 | 2 | 189 | 14 290 |
| Calif. | 357 | - | 292 | - | 38 | 182 | 224 | 8 | 397 | 4 | 161 | 114 4 | 2 | 189 | 290 |
| Alaska | 5 | - | 159 | - | 4 | 2 | 8 | - | 14 24 | - | 1 76 | 4 3 | - | 6 | 1 |
| Hawaii | 5 | - | 159 | - | 4 | 2 | 1 | - | 24 | - | 76 | 3 | - | 6 | 1 |
| Guam | 1 | U | 83 | U | 2 | 2 | 1 | U | 5 | U | 1 | 14 | U | 2 | 8 |
| P.R. | 4 | 25 | 235 | - | . | 96 | 7 | 1 | 173 | U | 1 | 14 | U | 20 | 8 2 |
| V.I. |  | U |  | U | - | 5 |  | U | 5 | U | - | - | U | - | 2 |
| Pac. Trust Terr. | - | U | - | U | - | - | - | U | - | U | - | - | U | $\bullet$ | - |

-For measles only, imported cases includes both out-of-state and international importations.
N Not notifiable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
December 15, 1984 and December 17, 1983 (50th Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome$1984$ | Tuberculosis |  | Tularemia | Typhoid <br> Fever <br> Cum. <br> 1984 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum. <br> 1984 | Rabies, <br> Animal <br> Cum. <br> 1984 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1984 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1983 \end{aligned}$ |  |  |  |  |
| UNITED States | 26.519 | 31.000 | 6 | 20.758 | 22.663 | 284 | 358 | 848 -. | 5.089 |
| NEW ENGLAND | 516 | 655 | 1 | 633 | 693 | 7 | 21 | 6 |  |
| Maine | 10 | 655 19 | - | 36 | $\begin{array}{r}693 \\ \hline\end{array}$ | 7 | 21 | 6 | 13 |
| N.H. | 14 | 22 | - | 27 | 36 | - | - | - | 16 |
| Vt . | 1 | 3 | - | 8 | 11 |  |  |  |  |
| Mass. | 284 | 426 | 1 | 343 | 375 | 7 | 17 | 4 | 11 |
| R.I. | 22 | 23 | - | 55 | 62 |  |  |  |  |
| Conn. | 185 | 162 | - | 164 | 174 | - | 4 | 2 | 8 |
| MID ATLANTIC | 3.553 | 4.124 | - | 3.802 | 4.042 | 3 | 56 | 27 | 535 |
| Upstate N.Y. | 276 | 393 | - | 592 | 631 |  | 12 | 10 | 124 |
| N.Y. City | 2.145 | 2.378 | - | 1.576 | 1.640 | 2 | 18 | 3 |  |
| N.J. | 640 | 799 | - | 813 | 831 | 1 | 18 | 3 | 37 |
| Pa . | 492 | 554 | - | 821 | 940 | - | 8 | 11 | 374 |
| E.N. CENTRAL | 1.352 | 1.642 | - | 2.690 | 3.061 | 10 | 59 | 53 , | 211 |
| lind. | 228 143 | 441 141 |  | 489 342 | 487 359 | 2 | 7 | $28 \cdots 11$ | 27 |
| III. | 558 | 731 |  | 1.109 | 1,311 | 8 | 23 | 15 | 74 |
| Mich. | 349 | 236 |  | 600 | +754 | 8 | +88 | 3 | 21 |
| Wis. | 74 | 93 | - | 150 | 150 | - | 9 | - | 68 |
| W.N. CENTRAL | 345 | 376 |  | 621 | 719 | 83 | 10 | $53 \cdots 1$ | 746 |
| Minn. | 87 | 144 | - | 111 | 152 | 1 | 3 | 1 | 94 |
| lowa | 11 | 23 | - | 66 | 65 |  | - | 6 | 148 |
| Mo. | 179 | 142 | - | 304 | 358 | 45 | 5 | $18-1$ | 67 |
| S. Dak. | 9 | ${ }_{11}^{2}$ | - | 13 23 | $\begin{array}{r}8 \\ \hline\end{array}$ | 34 | - | 5 | 140 |
| Nebr. | 15 | 15 | - | 30 | 25 | 34 |  | 5 | 203 |
| Kans. | 43 | 39 | - | 74 | 74 | 3 | 2 | 18 | 50 |
| S. ATLANTIC | 7.567 | 8.406 | 1 | 4.385 | 4.522 | 8 | 41 | $395 \div 1$ | 1.505 |
| Del. | 20 | 43 |  | 56 | 66 |  |  | 1 | 6 |
| Md. | 470 | 506 | - | 424 | 361 | 1 | 2 | 28 | 846 |
| D.C. | 330 | 374 | - | 174 | 189 | 1 | 6 | 5 |  |
| Va | 402 | 545 | - | 449 | 488 | 1 | 8 | 50 | 206 |
| W. Va | 20 | 25 | - | 127 | 132 | - |  | 7 | 40 |
| N.C. | 830 | 853 | 1 | 680 | 714 | 1 | 1 | 176 | 25 |
| S.C. | 754 | 558 | - | 542 | 438 |  | 1 | 801 | 59 |
| Ga. | 1.059 | 1.498 | - | 662 | 753 | 4 | 9 | 48 | 183 |
| Fla. | 3.682 | 4.004 | - | 1.271 | 1.381 | - | 14 | 5 | 140 |
| ES CENTRAL | 1.973 9 | 2.109 | - | 1.957 | 2.022 | 7 | 10 | 94 | 249 |
| Tenn. | 534 | 578 | - | 586 | 498 622 | 5 | 2 | 19 49 | 53 78 |
| Ala | 647 | 803 | - | 558 | 510 | - | 2 | 15 | 118 |
| Miss. | 697 | 557 | - | 350 | 392 | 1 | 4 | 11 |  |
| W. S CENTRAL | 6.514 | 7.898 | 3 | 2.420 | 2.813 | 117 | 24 | 201 : | 979 |
| Ark. | 191 | 187 |  | 279 | 2, 346 | 83 |  | 28 | 101 |
| La. | 1.149 | 1,608 | - | 337 | 433 | 7 | 2 | 4 | 57 |
| Okla. | 206 | 194 | ; | 230 | 266 | 19 | 4 | 1191 | 101 |
| Tex. | 4.968 | 5.909 | 3 | 1.574 | 1.768 | 8 | 18 | 50 | 720 |
| MOUNTAIN | 648 | 631 | 1 | 567 | 625 | 36 | 13 | 13 | 279 |
| Mont. | 3 | 7 | - | 28 | 42 | 3 | 1 | 8 | 124 |
| Idaho | 23 | 7 | - | 28 | 32 | 8 | - | 1 | 11 |
| Wyo. | 4 | 12 |  | 5 | 12 | 1 |  | 3 | 27 |
| Colo. | 180 | 146 | - | 72 | 93 | 8 | 5 | 1 | 39 |
| N. Mex | 91 | 172 | - | 109 | 108 | 3 | 3 | - | 11 |
| Ariz. | 235 | 162 | 1 | 251 | 251 | 4 | 3 |  | 45 |
| Utah | 18 | 22 | - | 35 | 41 | 4 | - | - | 6 |
| Nev . | 94 | 103 | - | 39 | 46 | 5 | 1 | - | 16 |
| PACIFIC | 4.051 | 5.159 |  | 3.683 | 4.166 | 13 | 124 | $6 \div$ | 537 |
| Wash. | 138 | 192 | - | 189 | 230 | 3 | 3 | 2 . | 3 |
| Oreg. | 114 | 140 |  | 145 | 177 | 2 | 2 | 1 | 1 |
| Calif. | 3.716 | 4.735 |  | 3.067 | 3.455 | 8 | 110 | 2 | 525 |
| Alaska Hawaii | 77 | 14 |  | 75 | 73 |  | 1 | 1 | 8 |
| Hawaii | 77 | 78 | - | 207 | 231 | - | 8 | . | - |
| Guam |  | 879 | u | 5 | 9 | - | - | - | - |
| P.R. V.I. | 753 11 | 879 | U | 388 | 455 | - | 5 | - | 62 |
| Pac. Trust Terr. | 11. | 19 | U | 3 | 2 | - | 3 | - |  |
| Poc. Trust Terr. |  |  | U | - |  | - |  | - |  |

TABLEIV. Deaths in 121 U.S. cities,* week ending
December 15, 1984 (50th Week Ending)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\& ${ }^{\circ}{ }^{\circ}$ <br> Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&\& }{ }^{\circ \bullet} \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { All } \\ & \text { Ages } \end{aligned}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 688 | 498 | 131 | 23 | 14 | 22 | 49 | S. ATLANTIC | 1,234 | 796 | 259 | 101 | 32 | 42 | 65 |
| Boston, Mass. Bridgeport, Conn. | 185 | 114 | 49 | 9 | 5 | 8 | 15 | Atlanta, Ga. | 121 | 76 | 28 | 9 | 4 | 4 | 3 |
|  | 44 | 35 | 8 | 1 |  | . | 15 | Baltimore, Md. | 223 | 146 | 47 | 12 | 11 | 7 | 10 |
| Bridgeport, Conn. Cambridge, Mass. | 34 | 24 | 7 | 2 | 1 |  | 1 | Charlotte, N.C. | 84 | 50 | 20 | 9 | 1 | 3 | 8 |
| Fall River, Mass. | 24 | 24 | - | 2 | 1 |  | 1 | Jacksonville, Fla. | 131 | 77 | 26 | 20 | 2 | 6 | 7 |
| Hartford, Conn. | 60 | 48 | 8 | 2 | - | 2 | 2 | Miami, Fla. | 132 | 77 | 30 | 15 | 3 | 7 | 1 |
| Lowell, Mass. | 26 | 19 | 6 | 1 | - | . | 3 | Norfolk, Va. | 57 | 34 | 16 | 3 | 1 | 3 | 2 |
| Lynn, Mass. | 18 | 14 | 3 | 1 | - |  | 3 | Richmond, Va. | 82 | 49 | 24 | 7 | 2 | - | 7 |
| New Bedford, Mass. | s. 30 | 23 | 5 | 2 | - |  | 3 | Savannah, Ga. | 65 | 44 | 14 | 5 | 1 | 1 | 6 |
| New Haven, Conn. | 44 | 30 | 7 | 3 | - | 4 | 4 | St. Petersburg, Fla. | 147 | 117 | 21 | 4 | 1 | 4 | 10 |
| Providence, R.I. | 73 | 46 | 23 | 1 | 2 | 1 | 8 | Tampa, Fla. | 83 | 54 | 13 | 5 | 2 | 6 | 5 |
| Somerville, Mass. | 9 | 6 | 2 | - | 1 | . | 1 | Washington, D.C. | 39 | 30 | 4 | 4 | 1 | - | 3 |
| Springfield, Mass. | 48 | 41 | 4 | 1 | 1 | 1 | 3 | Wilmington, Del. | 70 | 42 | 16 | 8 | 3 | 1 | 3 |
| Waterbury, Conn. | 26 | 24 | 1 | - | 1 |  | 2 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 67 | 50 | 8 | - | 3 | 6 | 6 | E.S. CENTRAL | 763 | 479 | 189 | 45 | 24 | 26 | 44 |
|  |  |  |  |  |  |  |  | Birmingham, Ala. | 130 | 76 | 31 | 10 | 5 | 8 | 1 |
| MID. ATLANTICAlbany, $\mathrm{N} . \mathrm{Y}$. | 2,794 | 1.881 | 607 | 186 | 73 | 47 | 125 | Chattanooga, Tenn. | 64 | 48 | 13 | 2 | - | 1 | 10 |
|  | 56 | 36 | 10 | 3 | . | 7 | 1 | Knoxville, Tenn. | 66 | 45 | 16 | 1 | 1 | 3 | 3 |
| Allentown, Pa. Buffalo, N.Y. | 16 | 9 | 5 | 2 | - | . | - | Louisville, Ky. | 108 | 71 | 27 | 6 | 1 | 3 | 8 |
| Buffalo, N.Y.Camden, N.J. | 141 | 100 | 35 | 4 | 2 | - | 6 | Memphis, Tenn. | 91 | 48 | 30 | 7 | 3 | 3 | 2 |
|  | 45 | 30 | 10 | 4 | - | 1 | 1 | Mobile, Ala. | 92 | 60 | 20 | 6 | 4 | 2 | 8 |
| Elizabeth, N.J. | 33 | 24 | 9 | - | - | - | 1 | Montgomery, Ala. | 48 | 29 | 11 | 2 | 3 | 3 | 1 |
|  | 37 | 26 | 10 | - | - | 1 | 3 | Nashville, Tenn. | 164 | 102 | 41 | 11 | 7 | 3 | 11 |
| Jersey City, N.J. N.Y. City, N.Y. | 49 | 29 | 11 | 5 | 3 | 1 | 2 |  |  |  |  |  |  |  |  |
|  | 1,462 | 976 | 305 | 111 | 45 | 25 | 68 | W.S. CENTRAL | 1,349 | 839 | 295 | 105 | 47 | 63 | 63 |
| Newark, N.J. | 74 | 30 | 21 | 14 | 5 | 4 | 3 | Austin, Tex. | 63 | 38 | 10 | 10 | 1 | 4 | 4 |
| Paterson, N.J. | 29 | 18 | 7 | 3 | 1 | - |  | Baton Rouge, La. | 22 | 14 | 5 | 1 | 1 | 1 | 2 |
| Philadelphia, Pa.tPittsburgh, Pa. $\dagger$ | 366 | 247 | 81 | 23 | 11 | 4 | 19 | Corpus Christi, Tex. | 44 | 30 | 9 | 1 | 1 | 3 | 15 |
|  | 82 | 59 | 19 | 2 | 1 | 1 | 3 | Dallas, Tex. | 215 | 136 | 43 | 14 | 10 | 12 | 15 |
| Pittsburgh, Pa.t Reading, Pa . | 32 | 27 | 5 | - | - | . | 1 | El Paso, Tex. | 73 | 44 | 13 | 6 | 3 | 7 | 5 |
| Rochester, N.Y. | 119 | 86 | 26 | 5 | 2 | - | 13 | Fort Worth, Tex. | 88 | 64 | 15 | 5 | 1 | 3 | 7 |
| Schenectady, N. Y. | 37 | 29 | 6 | - | 1 | 1 | 1 | Houston, Tex. | 300 | 166 | 78 | 33 | 14 | 9 | 3 |
| Scranton, Pa.t | 28 | 25 | 3 | - | - | - | - | Little Rock, Ark. | 71 | 38 | 18 | 7 | 2 | 6 | 9 |
| Syracuse, N.Y. | 94 | 66 | 23 | 2 | 1 | 2 | 1 | New Orleans, La. | 124 | 82 | 28 | 10 | 4 | - | 2 |
| Trenton, N.J. | 49 | 31 | 13 | 4 | 1 |  | - | San Antonio, Tex. | 173 | 110 | 33 | 11 | 5 | 14 | 9 |
| Utica, N.Y. | 13 | 7 | 4 | 2 | , | - | - | Shreveport, La. | 58 | 34 | 18 | 4 | 2 | - |  |
| Yonkers, N.Y. | 32 | 26 | 4 | 2 | - | - | 3 | Tulsa, Okla. | 118 | 83 | 25 | 3 | 3 | 4 | 7 |
| E.N. CENTRAL | 2.237 | 1.588 | 400 | 102 | 58 | 80 | 90 | MOUNTAIN | 746 | 498 | 143 | 53 | 27 | 25 | 40 |
| Akron, OhioCanton, Ohio | 43 | 28 | 7 | 2 | 1 | 5 | - | Albuquerque, N.Mex | 74 | 48 | 15 | 7 | 2 | 2 | 5 |
|  | 32 | 23 | 7 | 1 | 1 | - | 2 | Colo. Springs, Colo. | 44 | 26 | 11 | 4 | 1 | 2 | 5 |
| Canton, Ohio | 459 | 415 | 5 | 7 | 11 | 12 | 11 | Denver, Colo. | 140 | 97 | 30 | 4 | 3 | 6 | 4 |
| Cincinnati, CnıoCleveland, Ohio | 169 | 106 | 45 | 8 | 4 | 6 | 15 | Las Vegas, Nev. | 86 | 58 | 17 | 8 | 3 | - | 4 |
|  | 143 | 81 | 38 | 11 | 4 | 9 | 5 | Ogden, Utah | 24 | 17 | 4 | 1 | - | 2 | 2 |
| Columbus, Ohio | 128 | 75 | 26 | 12 | 5 | 10 | 5 | Phoenix, Ariz. | 183 | 117 | 39 | 7 | 9 | 11 | 8 |
| Dayton, OhioDetroit, Mich. | 114 | 77 | 24 | 5 | 4 | 4 | 1 | Pueblo, Colo. | 23 | 16 | 2 | 4 | 1 | - | 1 |
|  | 264 | 157 | 65 | 27 | 6 | 9 | 11 | Salt Lake City, Utah | 57 | 36 | 10 | 8 | 2 | 1 | 11 |
| Evansville, Ind. | 48 | 37 | 9 | - | - | 2 | 2 | Tucson, Ariz. | 115 | 83 | 15 | 10 | 6 | 1 | 11 |
| Fort Wayne, Ind.Gary, Ind. | 66 | 47 | 13 | 1 | 3 | 2 | 4 |  |  |  |  |  |  |  |  |
|  | 11 | 6 | 1 | 2 | 1 | 1 | - | PACIFIC | 1.820 | 1.241 | 374 | 117 | 32 | 52 | 96 |
| Gary, Ind. Grand Rapids, Mich. | h. 56 | 42 | 11 | 2 | 1 |  | 1 | Berkeley, Calif. | 24 | 17 | 6 | 1 | - | - | 1 |
| Indianapolis, Ind. | 156 | 110 | 32 | 2 | 3 | 9 | 3 | Fresno, Calif. | 74 | 53 | 15 | 2 | 2 | 2 | 5 |
|  | 36 | 26 | 6 | 2 | 2 | - | 3 | Glendale, Calif. | 39 | 35 | 4 | 5 | - | - | 2 |
| Madison, Wis. Milwaukee, Wis | 164 | 113 | 35 | 6 | 5 | 5 | 4 | Honolulu, Hawaii | 78 | 49 | 21 | 5 | 1 | 2 | 2 |
| Peoria, III. | 60 | 34 | 21 | 2 | - | 3 | 4 | Long Beach, Calif. | 80 | 68 | 9 | 3 | 1 | - | 2 |
| Rockford, III. | 40 | 30 | 4 | 2 | 2 | 2 | 6 | Los Angeles, Calif. | 397 | 263 | 81 | 28 | 11 | 10 | 15 |
| South Bend, Ind. | 54 | 35 | 15 | 3 | 1 |  | 2 | Oakland, Calif. | 67 | 45 | 18 | 1 | 1 | 2 | 3 |
| Toledo. Ohio Youngstown, Ohio | 117 | 83 | 26 | 4 | 3 | 1 | 9 | Pasadena, Calif. | 39 | 30 | 5 | 2 | 2 | - | 2 |
|  | 77 | 63 | 10 | 3 | 1 | - | 2 | Portland, Oreg. | 131 | 93 | 24 | 8 9 | 2 | 4 | r |
| Youngstown, Ohio |  |  |  |  |  |  |  | Sacramento, Calif. | 160 145 | 96 85 | 45 36 | 9 15 | 2 | 8 | 14 |
| W.N. CENTRAL | 786 | 505 | 180 | 44 | 25 | 32 | 50 | San Diego, Calif. | 145 | 85 116 | 36 | 15 | 1 | 8 | 18 |
| Des Moines, lowa | 63 | 40 | 18 | 2 | 1 | 2 | 8 | San Francisco, Calif. | 162 | 116 | 27 | 16 | 2 | 1 | 14 |
| Duluth, Minn. | 29 | 18 | 7 | 1 | - | 3 | 1 | San Jose, Calif. | 165 | 106 | 38 | 10 | 4 | 7 | 14 |
| Kansas City, Kans. | 48 | 31 | 12 | 2 | 3 |  | 3 | Seattle, Wash. | 170 | 116 39 | 35 | 9 | 3 | 7 | 4 |
| Kansas City, Mo. | 124 | 81 | 32 | 5 | 3 | 3 | 9 | Spokane, Wash. | 54 35 | 39 30 | 7 | 6 | 1 | 1 | 5 |
| Lincoln, Nebr. | 36 | 23 | 9 | 1 | 1 | 2 | 3 | Tacoma, Wash. | 35 | 30 | 3 | 2 | - | - | 2 |
| Minneapolis, Minn. | 94 | 65 | 10 | 9 | 4 | 6 | 4 |  |  |  |  |  |  |  |  |
| Omaha, Nebr. | 102 | 61 | 27 | 4 | 4 | 6 | 8 | TOTAL | 12.417 | 8,325 | 2,578 | 776 | 332 | 389 | 622 |
| St. Louis, Mo. | 163 | 102 | 39 | 12 | 4 | 6 | 6 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. Wichita, Kans. | 51 | 37 | 9 | 2 | 2 | 1 | - |  |  |  |  |  |  |  |  |
|  | 76 | 47 | 17 | 6 | 3 | 3 | 8 |  |  |  |  |  |  |  |  |

- Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
- Pneumonia and influenza
t Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
t+ Total includes unknown ages.
$\S$ Data not available. Figures are estimates based on average of past 4 weeks.

TABLE V. Years of potential life lost, deaths, and death rates, by cause of death, and estimated number of physician contacts, by principal diagnosis, United States

| Cause of morbidity or mortality (Ninth Revision ICD, 1975) | Years of potential life lost before age 65 by persons dying in $1982^{\star} \dagger$ | Estimated mortality July 1984 |  | Estimated number of physician contacts July 1984* ${ }^{\text {• }}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { Annual } \\ \text { Rate } / 100,000^{\star} \S \end{gathered}$ |  |
| ALL CAUSES (TOTAL) | 9,429,000 | 163,990 | 817.8 | 114,800,000 |
| Accidents and adverse effects (E800-E949) | 2,367,000 | 8,780 | 43.8 | 6,700,000 |
| Malignant neoplasms (140-208) | 1,809,000 | 38,800 | 193.5 | 2,600,000 |
| Diseases of heart (390-398, 402, 404-429) | 1,566,000 | 60,340 | 300.9 | 6,400,000 |
| Suicides, homicides (E950-E978) | 1,314,000 | 4,430 | 22.1 | - |
| Cerebrovascular diseases $(430-438)$ | 256,000 | 11,870 | 59.2 | 900,000 |
| Chronic liver disease and cirrhosis (571) | 252,000 | 1.880 | 9.4 | 100,000 |
| Pneumonia and influenza $(480-487)$ | 118,000 | 3.550 | 17.7 | 600,000 |
| Chronic obstructive pulmonary diseases and allied conditions (490-496) | 114,000 | 5.130 | 25.6 | 900,000 |
| Diabetes mellitus (250) | 106,000 | 2,630 | 13.1 | 3,900,000 |
| Prenatal care* Infant mortality* |  | 3.200 | $9.8 / 1.000$ | $3,000,000$ e births |

-For details of calculation, see footnotes for Table V. MMWR 1984;33:2.
${ }^{\dagger}$ Years of potential life lost for persons between 1 year and 65 years old at the time of death are derived from the number of deaths in each age category as reported by the National Center for Health Statistics, Monthly Vital Statistics Report (MVSR), Vol. 31, No. 13, October 5, 1983.
$\S_{\text {National }}$ Center for Health Statistics, Monthly Vital Statistics Report (MVSR), Vol. 33, No. 8, November 15, 1984, pp. 8-9.
${ }^{4}$ IMS America National Disease and Therapeutic Index (NDTI), Monthly Report, July 1984, Section III.
${ }^{\dagger}{ }^{\prime}$ MVSR Vol. 33, No. 7, October 22, 1984, p. 1.

## Measles - Continued

preschool-aged children $0-4$ years of age ( $25 / 35$ ). Further investigation revealed that 16 $(46 \%)$ of the 35 second-generation cases were among infants 15 months of age or younger, $\S$ compared to two ( $9 \%$ ) of 22 cases in the first generation. High school stuaents accounted for $34(75 \%)$ of the school-aged patients. Seven additional cases occurred at four elementary schools.

Of the 106 cases, $48(45 \%)$ were considered preventablel (Table 5). Thirty-two of these patients had no record of measles vaccination or prior physician-diagnosed natural disease,
$\S_{\text {Measles vaccination is normally recommended at } 15 \text { months of age. }}$
${ }^{1}$ A measles case is considered preventable if illness occurs in a U.S. citizen: (1) at least 16 months of age; (2) born after 1956; (3) lacking adequate evidence of immunity to measles; (4) without a medical contraindication to receiving vaccine; and (5) with no religious or philosophical exemption under state law.
and 16 had been vaccinated at under 12 months of age. Thirty-six of the 58 nonpreventable cases** (62\%) occurred among children 15 months of age or younger, most of whom were too young for routine vaccination. Eighteen (31\%) of the nonpreventable cases had been immunized appropriately. ${ }^{\dagger \dagger}$ The remaining four measles patients were 28 years of age or older-too old for routine vaccination. Of the 45 school-aged patients, 16 (35\%) were vaccinated at 12 months of age or under; 12 ( $27 \%$ ) were unvaccinated. Thus, non-immune schoolchildren accounted for $58 \%(28 / 48)$ of all preventable measles cases.

Sixteen persons who subsequently developed measles had visited a doctor's office in May and June at the same time a patient with known or suspected measles was being seen in the office; one additional person was seen within 45 minutes after a patient with known measles left the office. All such visits occurred 8-14 days before onset of rash. Sixteen of the cases were in children; one was in a parent of one of these children. Mothers of four recalled face-to-face contact in the waiting room between their children and another child with rash. In 12 cases, for which exact times were available, the exposed person had been in the office with the measles patient for 20-90 minutes. No other possible sources of measles exposure were identified for these 17 cases. Interviews with parents revealed that, of the 16 children involved in office transmission, two were in the office primarily for measles-mumps-rubella vac-

[^2]FIGURE 3. Measles cases, by date of rash onset - Kauai, Hawaii, May 5-June 29, 1984


- Age of vaccination lowered to 6 months. Recommendations on office isolation procedures.


## Measles - Continued

cine, and four, for routine examination; four accompanied an ill relative; and seven were ill themselves. Transmission in physicians' offices was most important in infecting young preschool-aged children. Such transmission accounted for $36 \%$ of cases among children 15 months of age and under and $31 \%$ of cases among children under 5 years of age.

Interviews with office staff revealed that procedures for isolating sick children from well children in the office were not well implemented. In many cases, parents brought in their children complaining of high fever and rash without appointments and either had to wait in or pass through a common waiting room.

On June 6, because of increasing evidence that up to one-third of all measles cases were occurring among children under 15 months of age, measles vaccination recommendations were extended to children as young as 6 months of age for the duration of the outbreak. On June 7, to limit measles transmission in private offices, the Hawaii Department of Health recommended that health professionals: (1) screen patients requesting appointments by asking if symptoms of rash and fever were present. If possible, such patients should then be seen in separate facilities or at the end of the day after all other patients had left; (2) keep suspected measles patients in respiratory isolation in separate rooms with face masks to limit spread of the virus; they should be given priority and seen as soon as possible.

Although measles cases continued to be reported in June and July, the last case of suspected intraoffice transmission occurred on June 7. With the implementation of isolation precautions and continued vaccination of susceptible children and adults, reports of measles cases began to decline after the third generation (Figure 3).

To define other populations at risk for disease, an island-wide school and day-care center

TABLE 4. Age distribution of measles cases - Kauai, Hawaii, May and June 1984

| Age | No. cases (\%) |
| :--- | :---: |
| $\leqslant 15$ mos. | $36(34.0)$ |
| 16 mos. -4 yrs. | $16(15.1)$ |
| $5-9$ yrs. | $5(4.7)$ |
| $10-14$ yrs. | $13(12.3)$ |
| $15-19$ yrs. | $27(25.5)$ |
| $20-24$ yrs. | $2(1.9)$ |
| $25-27$ yrs. | $3(2.8)$ |
| $\geqslant 28$ yrs. | $4(3.8)$ |
|  |  |
| Total | $106(100.0)$ |

TABLE 5. Preventability of measles cases and number believed associated with physician's office, by age - Kauai, Hawaii, May and June 1984

| Age | Preventable cases | Nonpreventable cases | Doctor's office as <br> probable source |
| :--- | :---: | :---: | :---: |
| $\leqslant 15$ mos. | - | 36 | 13 |
| 16 mos. -4 yrs. | 15 | 1 | 3 |
| $5-9$ yrs. | 1 | 4 | - |
| $10-14$ yrs. | 7 | 6 | - |
| $15-19$ yrs. | 20 | 7 | - |
| $20-24$ yrs. | 2 | - | - |
| $25-27$ yrs. | 3 | - | - |
| $\geqslant 28$ yrs. | - | 4 | 1 |
| Total | 48 | 58 | 17 |

Measles - Continued
health record review was done. A student was considered susceptible to or at high risk for measles if there was no record of receipt of live measles vaccine on or after the first birthday and no record of physician-diagnosed measles. Using this definition, $47 \%(1,864 / 3,986)$ of high school students and $22 \%(2,200 / 5,100)$ of elementary, private, and parochial school students were considered susceptible. Those students were asked to provide proof of previous adequate vaccination or be vaccinated in school-based clinics, held in all three high schools before graduation and end of school or in public clinics. Over 1,000 students were vaccinated at the high school clinics. Approximately 400 persons were vaccinated in 13 public clinics held between June 7 and June 15 for the general public and elementary and private schools.
Reported by H Michioka, SMD Terrell-Perica, P Tokita, M Tsuchiya, T Inouye, Kauai District Health Office, $K$ Corrigan, A Hendersen, CM Ibara, G Kobayashi, R Salcido, C Wakida, A Liang, MD, State Epidemiologist, Hawaii State Dept of Health; Div of Field Svcs, Epidemiology Program Office, Div of Immunization, Center for Prevention Svcs, CDC.
Editorial Note: Over the last 5 years, Hawaii has made significant progress towards measles elimination. The last major cluster of measles cases occurred in 1979, when 68 cases were reported. Fewer than seven cases had been reported annually in Hawaii since 1980. The present outbreak confirms that measles can occur in populations essentially free of disease for long periods. The source of this outbreak was not determined.

Hawaii's immunization law, enacted in 1974, covers only new school enterers and has been vigorously enforced only since about 1976. In this outbreak, susceptible schoolchildren made up $62 \%(28 / 45)$ of all school-aged measles patients. The predominance of high school students among the school-aged patients may, in part, reflect a higher susceptibility rate among the age group that was too old to be affected by the law. Only the year of vaccination was required for the school record. Considerable numbers of susceptibles were identified, because many students had records of vaccination in the year of, or the year following, birth, making determination of who was vaccinated on or after the first birthday impossible. Vigorous enforcement of comprehensive school laws covering all students from kindergarten through grade 12 has been demonstrated to be the most effective means of reducing measles incidence rates (1).

This outbreak is also important because of the large number of preschool-aged children who acquired measles. Of the 52 preschool-aged children with measles, $69 \%$ were under 16 months of age and their cases, therefore, were nonpreventable. However, 15 children in the preschool-aged group simply had not been vaccinated, and their measles could have been prevented (Table 5).

This investigation suggests that transmission in physicians' offices played a major role in perpetuating the outbreak, particularly among children too young for routine vaccination. Intraoffice transmission can occur both when droplet nuclei are aerosolized by coughing children and by direct physical contact between children. Measles outbreaks in medical offices, airports, and other settings have been propagated by susceptible persons inhaling measlescontaining droplet nuclei left by infected persons (2-4). Transmission in medical offices has been documented to have occurred up to 75 minutes after an infectious person has left the office (5). The opportunity for intraoffice transmission by both direct contact and airborne routes was present on Kauai.

In situations where exposure has already occurred, susceptible persons who had face-to-face contact with a measles patient may benefit from immune globulin prophylaxis, if it is given within 6 days of exposure. Measles vaccination may provide protection if it is given within 72 hours of exposure. Prophylaxis is not generally offered to persons who have not had face-to-face contact but were in the office with the patient or arrived after the patient departed. The rarity of reports of transmission in doctors' offices suggests that airborne transmission is uncommon. Denominator data that would have defined the actual risk of mea-
sles for patients in a physician's office in this outbreak are lacking. However, should future outbreaks document substantial hazards for all susceptible patients who are in a medical office at the same time as a transmitting patient, prophylaxis for all contacts might be indicated.

Hawaii is a major international transit point. Tourists, businessmen, and refugees from countries where measles is endemic present a largely uncontrollable source of measles introduction into the Hawaiian Islands and the mainland. An immunized population continues to be the primary means of protection against the spread of measles in the United States. Continued vaccination of preschoolers and enactment and enforcement of school vaccination laws for children in kindergarten through grade 12, as well as vaccination efforts for college students, will continue to increase the level of immunity in the population, greatly limit the spread of measles introduced, and eventually eliminate measles from the United States.

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## Current Trends

## Influenza Activity - United States

Influenza viruses have recently been isolated from sporadic cases identified in California, New York, Texas, and Wisconsin. Type A(H3N2) influenza was isolated from a 38-year-old-man and his 14-year-old daughter in San Diego, California; from 7-and 2-year-old children on Long Island, New York; and from an 8-year-old girl and a 24-year-old college student in Milwaukee, Wisconsin. Type A(H1N1) influenza virus was isolated from a schoolchild in Houston, Texas. All became ill during the last half of November or December. None had a history of recent travel. Previously this season, type $A(H 3 N 2)$ and type B isolates had been identified in Nevada and Texas (1,2). No laboratory-confirmed influenza outbreaks have been documented in the United States this season.
Reported by L Sheppard, S Turner, PhD, M Thompson, DrPh, San Diego County Health Dept, San Diego, California Dept of Health Svcs; L Krilov, MD, Long Island Jewish Hospital, P Swenson, PhD, North Shore University Hospital, Long Island, New York; WP Glezen, MD, School of Medicine, Baylor University, Houston, Texas; H Dobbs, MD, Marquette University, G Sedmak, PhD, City of Milwaukee Health Laboratory, Wisconsin; State Epidemiologists and Laboratory Directors; Influenza Br, Div of Viral Diseases, Center for Infectious Diseases, CDC.

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## Combined Issues of MMWR

The December 28, 1984, issue of MMWR will not be published. The next issue will be Volume 33, Numbers 51 and 52, dated January 4, 1985, and will include the tables on specified notifiable diseases and deaths in 121 U.S. cities for the weeks ending December 22 and December 29.

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[^0]:    *Data for 1983 indicate that injuries decreased slightly from 1982.

[^1]:    -There are several limitations related to these findings. One is that blood-alcohol information is available for fewer than half the drivers reported in the FARS (1); also, these data do not allow consideration of other risk factors, such as miles driven by young drivers, compared with other drivers, or average number of occupants per car, by driver age.

[^2]:    "A case is considered nonpreventable if illness occurs in a person: (1) under 16 months of age; (2) born before 1957; (3) with adequate evidence of immunity; (4) with a medical contraindication to receiving vaccine; or (5) a religious or philosophical exemption under state law.
    ${ }^{\dagger}$ Persons can be considered immune to measles only if they have documentation of: (1) physiciandiagnosed measles; (2) laboratory evidence of measles immunity; or (3) adequate immunization with live measles vaccine on or after the first birthday.

