CENTERS FOR DISEASE CONTROL


## MORBIDITY AND MORIALITY WEEKIY REPORT

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## Epidemiologic Notes and Reports

## Toxic-Shock Syndrome - United States, 1970-1980

To date, 941 confirmed cases of toxic-shock syndrome (TSS)* have been reported to CDC. The dates of onset for these cases, which range from 1970 through 1980, are shown in Figure 1. Probable cases (those reported to state health departments that are missing one of the major criteria) have a similar distribution. Of the confirmed cases, 928 ( $99 \%$ ) were in women; 905 ( $98 \%$ ) of these women had onset during a menstrual period. Elevert. cases occurred in the postpartum period.
FIGURE 1. Reported cases of toxic-shock syndrome, by date of onset, United States, January 1970 through December 1980


[^0]Toxic-Shock Syndrome - Continued
The age range for female patients was 6-61 years, with a mean of 23 years. One-third of all cases occurred in women 15-19 years old. The age range for male patients was 6-58 years, with a mean of 23 years. Seven cases occurred in blacks, 3 in Asians, 3 in Hispanics, and 2 in American Indians. Seventy-three cases resulted in death (case-fatality ratio $=$ $7.8 \%$ ). The case definition for fatal cases is identical to that for surviving cases, except that desquamation is not required.

Cases have been reported from 48 states (Figure 2). The marked variability in the reported number of cases per state may be due in part to real differences in the prevalence of TSS among geographic areas, but much of this variability-in particular, the high numbers in Minnesota, Wisconsin, and Utah-undoubtedly reflects the interest of local investigators, including state epidemiologists. Initially, these cases were reported directly to CDC, but since September 1980 a national surveillance system has been in operation; under this system, cases are reported to CDC through state health departments. Cases have also occurred in Canada (see related story), Great Britain, Sweden, Germany, and the Netherlands.
Reported by State and Territorial Epidemiologists; Field Services Div, Epidemiology Program Office; Toxic-Shock Syndrome Task Force, Bacterial Diseases Div, Center for Infectious Diseases, CDC.
Editorial Note: Figure 1 illustrates the sporadic occurrence of reported cases of TSS before 1978, an increased number of cases beginning in late 1978, a rapidly increasing upward trend continuing through August 1980, and a sudden decrease thereafter.

The medical community was first alerted to TSS with the publication of an article in November 1978 (2); the finding of an unusually high occurrence of TSS among menstruating women, however, was not published until May 1980 (3). Widespread awareness FIGURE 2. Distribution of reported cases of toxic-shock syndrome, United States, January 1970 through December 1980


## Toxic-Shock Syndrome - Continued

of the problem followed, enhanced by a report in June that TSS was tampon-associated (i). The observed increase in the number of cases is in part a result of improved recognition of the disease and better (and more current) reporting (i.e., most cases have been reported retrospectively, and recall decreases over time). However, the substantial rise in the number of cases before May 1980 makes it likely that a real increase in the disease Was the major factor responsible for the seemingly sudden appearance of TSS (1-4). The decrease since September is of interest because the number of reported cases of a disease usually increases as a result of publicity, and further articles on TSS were published in September, November, and December (4-7).

There are several possible explanations for the decrease in reported cases that began in September 1980. First, there is an inherent lag from the time of onset of a case to the time it is confirmed by a state health department. This delay in reporting is an unlikely cause for the observed decrease, however, because the distribution of cases over time has not changed substantially during the past 4 months of reporting. Moreover, the same trend can be seen in individual states, where close communication between the state health department and practicing physicians insures minimal reporting delay. To assure that delay in reporting of cases from state health departments to CDC since initiation of the new surveillance system is not a factor, CDC investigators telephoned each state during the week before this report. Nor does initiation of the national surveillance system appear to be a factor because the same temporal trends are noted when only those cases reported through state health departments are examined.

A second possibility is that the recent decrease in the number of cases can be attributed to diminished interest in the reporting of the disease due to waning media attention. Cases of non-menstrually associated TSS with onset dates since September, however, have continued to be reported at the same rate, suggesting that there is still increased awareness and interest in the disease. A third possible explanation-that there is seasonal variation for this syndrome-is not supported by the distribution of cases with onset before 1980 (Figure 1).

Another conceivable reason for the recent decrease is that publicity concerning TSS has made women progressively more aware of the disease. Thus, women with early symptoms of TSS may have removed their tampons and sought the attention of physicians more quickly. These measures would reduce the incidence of shock, and, as a result, fewer patients would meet the strict case definition for TSS, which requires hypotension (a systolic blood pressure of 90 mm Hg or below). These factors are undoubtedly important. However, the fact that there has not been a coincident increase in the number of probable cases does not support the conjecture that increasing awareness accounts for the decrease in cases.

Because most cases of TSS are menstrually associated, the most likely explanation for the distribution of cases illustrated in Figure 1 is that women have changed their tampon-wearing habits. Data based on telephone interviews by tampon manufacturers indicate that as recently as July 1980, 70\% of the women in the United States used tampons. By November/December 1980, this figure had dropped to approximately $55 \%$. plain the large decrease in reported cases. It is unlikely that changes in the use of highly absorbent tampons have had a major effect on the incidence of TSS, because additional data from tampons have had a major effect on the incidence of TSS, because additional
tage of tage of tampon users who use "super" or "super-plus" tampons.

## Toxic-Shock Syndrome - Continued

Finally, a large number of American women discontinued using Rely brand tampons after the Procter and Gamble Company announced the removal of the product from the market on September 22, 1980. This brand, which was shown to be associated with an increased risk of TSS in earlier studies (4,8), was initially introduced to a large part of the country in August 1978 as a first step in a national marketing program (although it had been introduced in test markets in 1974). Rely had shown a steady increase in overall percentage of tampon sales nationally until the time of its withdrawal.

Additional studies will be needed to clarify the importance of various potential mechanisms underlying the apparent decrease in cases occurring in the last 3 months of 1980, and further observation will be necessary to determine whether these trends will persist. Non-menstrually associated cases will undoubtedly continue to occur, albeit at a low rate. Menstrually associated cases, which have occurred in women using all brands of tampons, will also presumably continue to occur. It is still true that women can almost entirely eliminate their risk of TSS by not using tampons and that women who choose to use tampons can reduce their risk by using them intermittently during each menstrual period. Also, informing women about TSS and advising them to remove their tampons and seek medical attention if they develop symptoms of the disease are still warranted as public health measures.
(Continued on page 33)

| TABLE I. Summary - cases of specified notifiable diseases, United States [Cumulative totals include revised and delayed reports through previous weeks.] |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DISEASE | 3rd WEEK ENDING |  | MEDIAN 1976.1980 | CUMULATIVE, FIRST 3 WEEKS |  |  |
|  | $\begin{gathered} \text { January } 24 . \\ 1981 \\ \hline \end{gathered}$ | $\begin{gathered} \text { January } 17 . \\ 1900 \end{gathered}$ |  | January 24, 1981 | $\begin{gathered} \text { January } 17 . \\ 1980 \\ \hline \end{gathered}$ | $\begin{aligned} & \text { MEDIAN } \\ & 1976-1980 \\ & \hline \end{aligned}$ |
| Aseptic meningitis | 39 | 60 | 44 | 189 | 175 | 123 |
| Brucellosis | 2 | 1 | 1 | 5 | 3 | 4 |
| Chickenpox | 4,767 | 4.785 | 4.785 | 12.079 | 10.023 | 12,583 |
| Diphtheria | - | - | 1 | - | - | 3 |
| Encephalitis: Primary (arthropod-borne \& unspec.) | 20 | 11 | 10 | 39 | 28 | 28 |
| Post-infectious | 2 | 2 | 1 | 4 | 4 | 4 |
| Hepatitis. Viral: Type B | 325 | 281 | 281 | 946 | 129 | 747 |
| Type A | 520 | 519 | 548 | 1.240 | 1.224 | 1,415 |
| Type unspecified | 240 | 178 | 178 | 590 | 460 | 468 |
| Malaria | 22 | 47 | 9 | 79 | 71 | 21 |
| Measles (rubeola) | 24 | 80 | 211 | 95 | 160 | 595 |
| Meningococcal infections: Total | 92 | 76 | 46 | 189 | 142 | 103 |
| Civilian Military | 91 | 76 | 46 | 188 | 140 | 103 |
| Mumps | 127 | 256 | 384 | 272 | 579 | 948 |
| Pertussis | 13 | 17 | 26 | 33 | 40 | 88 |
| Rubella (German measles) | 51 | 42 | 174 | 117 | 111 | 405 |
| Tetanus | 11 | 4 | 2 | 1.4 | 4 | 3 |
| Tuberculosis | 427 | 410 | 502 | 1.111 | 995 | 1,187 |
| Tularemia | - | 1 | 1 | 1.1 | 5 | 8 |
| Typhoid fever | 4 | 2 | 4 | 25 | 7 | 13 |
| Typhus tever, tick-barne (Rky. Mt. spotted) | - | - | - | 4 | 1 | 2 |
| Venereal diseases: <br> Gonorrhea: Civilian Military | $\begin{array}{r} 21.145 \\ 603 \end{array}$ | $\begin{array}{r} 19,639 \\ 525 \end{array}$ | 18.832 418 | 58.055 1.793 | 51.757 1.257 | 52,877 1,531 |
| Syphilis, primary 8 secondary: Civilian | 603 562 | 525 480 | 418 489 | 1.793 1.656 | $\begin{aligned} & 1.257 \\ & 1.379 \end{aligned}$ | $\begin{aligned} & 1.531 \\ & 1.354 \end{aligned}$ |
| Rabies in animals Military | 7 | 11 | 8 | 19 | 1.39 | 17 |
| Rabies in animals | 90 | 83 | 50 | 240 | 220 | 134 |

TABLE II. Notifiable diseases of low frequency, United States

|  | CUM. 1981 |  | CUM. 1981 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Poliomyelitis: Total | - |
| Botulism Utah 1 | 3 | Paraly tic | - |
| Chalera | - | Psittacosis | 4 |
| Conganital ruballa syndrome | $\overline{7}$ | Rabies in man | 4 |
| Leprosy Calif. 1 | 7 | Trichinosis N.J. 1, Alaska 8 | 11 |
| Leptospirosis Hawaii 1 Plague | 2 | Typhus fever, flas borna (endamic, murina) | 1 |

[^1]ISS Cases
$1980--725$
$$
1979-135
$$

| Jan | 41 | 6 |
| :--- | ---: | ---: |
| Feb | 29 | 8 |
| Mar | 42 | 7 |
| Apr | 38 | 11 |
| May | 07 | 6 |
| Jun | 72 | 14 |
| Jui | 71 | 7 |
| Aug | 119 | 8 |
| Sep | 106 | 7 |
| Oct | 58 | 14 |
| Nov | 42 | 20 |
| Dec | 39 | 28 |

Death 45 ..... 13
$1978--36$
$\underline{5}$

TABLE III. Cases of specified notifiable diseases, United States, weeks ending January 24, 1981, and January 19, 1980 (3rd week)

| Reporting area | ASEPTIC <br> MENN. <br> GITIS <br> 1991 | BRU CEL Losis 1981 | ${ }_{\text {chicken }}^{\text {POX }}$ | бiphtheaia |  | EnCEPHALITIS |  |  | hepatitis (virall. by type |  |  | malaria |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Primary |  |  | B ${ }_{1981}$ | $\begin{gathered} A \\ \hline 1981 \end{gathered}$ | Unspectified <br> 1981 |  |  |
|  |  |  | 1981 | 1981 | ${ }_{1}^{\text {cum }} 1$ | 1981 | 1980 |  |  |  |  | 1981 | A |
| United states | 39 | 2 | 4.767 | - | - | 20 | 1 | 2 | 325 | 520 | 240 | 22 | 19 |
| New england | - | - | 443 | - | - | 2 | 1 | - | 11 | 11 | 10 | 1 | 2 |
| N.H. | = | $=$ | 139 | : | - | : | $=$ | - | 2 | 2 | $\underline{-}$ | - | 1 |
| Vit. | - | Z | ${ }_{21}^{10}$ | Z | - | - | - | Z | 7 | - | $=$ | Z | - |
| R.L. | - | - | 164 | - | - | 1 | - | - | 3 | 6 | 10 | 1 | 1 |
| Conn. | - | Z | 32 71 | Z | - | $\overline{1}$ | $\overline{7}$ | Z | 5 | $\underline{3}$ | = | - | - |
| Mid. atlantic | 8 | - | 212 | - | - | 1 |  |  |  |  |  |  |  |
| N. ${ }_{\text {Usplate }}^{\text {N.Y.Y. }}$ | 3 | - | 127 | - | - | I | $-$ | - | 24 | 26 | 9 | $\underline{1}$ | ${ }_{3}$ |
| N.J. ${ }_{\text {den }}$ | 2 | - | 48 | - | - | 1 | $\stackrel{1}{-}$ | - | 13 | 20 | ${ }_{5}$ | 1 | ? |
| Pa. | ? | Z | NN 37 | Z | Z | - | 3 | Z | $\underline{7}$ | $\underline{9}$ | 5 | - | = |
| E.N. central | 1 | - | 1.956 | - | - | 3 | - | - | 17 | 53 | 14 | 1 | 3 |
| Ind. | - | - | 172 | - | - | $\frac{7}{7}$ | - | - |  | 1 | 3 | $-$ | - |
| ${ }_{\text {Mich }} 11$. | - | - | 278 338 | = | = | $\underline{1}$ | = | Z | 2 | 22 16 | 4 | - | - |
| Wis. | 1 | - | 695 | - | - | 2 | - | - | 15 | 13 | 4 | 1 | 3 |
| W.N. central |  |  | ${ }^{\text {f }}$ |  |  |  |  |  |  |  |  |  |  |
| Minn. | 1 | - | 1.143 | Z | - | - | - | - | 16 | 34 | 5 | - | 1 |
| ${ }_{\substack{\text { lowa } \\ \text { Mo. }}}$ | 1 | Z | $29^{2}$ | - | = | : | Z | : | 1 | ${ }^{3}$ | 1 | - | - |
| ${ }^{\text {N. Dak. }}$ | - | - | ${ }^{23}$ | - | - | - | - | - | 12 | 16 | 3 | - | 1 |
| ${ }^{5}$ Dik. | - | - | 22 | - | - | - | - | - |  |  | - | - | - |
| ${ }_{\text {Nobrr }}$ | - | Z | 64 | = | = | - | = | Z | - | 1 | - | - | - |
|  | - | - | 737 | - | - | - | - | - | ${ }_{2}^{1}$ | $\frac{1}{3}$ | - | : |  |
| ${ }_{\text {Sol }}^{\text {S AtLantic }}$ | 6 | 1 | 424 | - | - | 5 | 1 | 2 | 67 | 38 | 29 | 1 | 5 |
| Md. | Z | : | $?$ | E | : | = | = | : | 1 | $\underline{2}$ | 1 | - | - |
| d.c. | - | - | - | - | = | - | = | - | 4 | - | 1 | $=$ | - |
| w. $\mathrm{v}_{\mathrm{a}}$ | 1 | 1 | 28 | - | - | 4 | - | 2 | 9 | 3 | 11 | - | 2 |
| N.c. | $i$ | - | 192 | Z | = | 1 | 1 | = | ${ }^{6}$ | 4 | ${ }_{3}^{3}$ | - | - |
| Ga | 2 | - | 15 | = | = | $\underline{-}$ | $\underline{-}$ | - | 9 | 2 | $\underline{-}$ | - | - |
| ${ }^{\text {Fla, }}$ | $\overline{2}$ | : | 39 143 | - | = | - | - | = | 11 | 11 | $\overline{9}$ | 1 | ${ }_{1}$ |
| Ess central |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }_{2}$ | Z | 89 59 | - | Z | - | - | - | 17 | 40 | 5 | - | - |
| ${ }_{\text {Ala }}$ | $\frac{1}{3}$ | Z | ${ }_{34}$ | - | - | - | - | - | ${ }^{3}$ | 15 | 3 | - | - |
| Miss. | 3 | - | 34 | - | - | - | - | - | 11 | 9 | 2 | - | - |
|  |  | - | 2 | - | - | - | - |  | 1 | 12 |  | - |  |
|  | 4 | - | 304 | - | - | 3 | 1 | - | 33 | 95 | 50 | 1 | 2 |
| ${ }_{\text {Lokla }}$ | - | Z | ${ }^{33}$ | - | = | - | - | = | 5 | 10 | $\frac{1}{3}$ | - | 1 |
| Tex. | - | - | N | - | - | 1 | - | - | 4 | 1 | 5 | - | $\underline{-}$ |
| MOUNTAIN |  |  | 271 | - | - | 2 | 1 | - | 24 | ${ }^{\text {a }}$ | 41 | - |  |
| Mont | 1 | - | 43 | - | - | - | 1 | - | 16 | 40 | 29 | - | 2 |
|  | $\underline{1}$ | - | - | - | - | - | - | - | - | 2 | - | - | - |
| Colo. | - | Z | こ | Z | = | Z | Z | Z | - | $\stackrel{2}{2}$ | こ | - | Z |
| N. Mex. | Z | - | 34 | - | - | - | 1 | - | 10 | 19 | 2 | - | 1 |
| $\underset{\substack{\text { Ariza } \\ \text { Utah }}}{\text { ate }}$ | $z$ | z | N | z | = | : | = | = | , | 6 | $1{ }^{1}$ | - | i |
| Nov. | - | - | ${ }_{3}$ | : | - | - | - | : | $\frac{1}{2}$ | 1 | 1685 | - | $\underline{1}$ |
|  | - | - | 6 | - | - | - | - | - | 2 | 2 | 5 | - | - |
|  | 12 | 1 | 253 | - | - |  | 3 | - | 104 | 154 |  | 11 | 54 |
|  | 2 | Z | 136 | Z | = | ${ }_{2}^{1}$ | 1 | = | ${ }^{6}$ | 30 | 7 | $\stackrel{2}{1}$ | 2 |
| ${ }^{\text {Alaska }}$ | 6 | 1 | - | : | : | 3 | 2 | - | \%6 | 112 | 67 | 15 | 52 |
| Hawaii | - | = | 2 | - | - | - | - | - | - |  | - | - |  |

[^2]TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending January 24, 1981, and January 19, 1980 (3rd week)

| REPORTING AREA | measles (fubeola) |  |  | MENINGOCOCCAL INFECTIONS total |  |  | MUMPS |  | PERTUSSIS | RUBELLA |  | TETANUS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1981 | $\begin{aligned} & \text { CuM. } \\ & 1981 \end{aligned}$ | $\begin{aligned} & \text { CUM. } \\ & 1980 \end{aligned}$ | 1981 | $\begin{aligned} & \text { CUM. } \\ & 1981 \end{aligned}$ | CUM. <br> 1981 | 1981 | CUM. 1981 | 1981 | 1981 | CUM. 1981 | CUM. <br> 1981 |
| UNITED STATES | 24 | 95 | 160 | 92 | 189 | 142 | 127 | 272 | 13 | 51 | 117 | 4 |
| NEW ENGLAND | - | 3 | 16 | 6 | 19 | 6 | 7 | 15 | - | 6 | 20 | - |
| Maine | - | - | - | - | - | - | 1 | 3 | - | - | 12 | - |
| N.H. | - | 2 | 5 | 1 | 1 | - | 1 | 1 | - | 5 | 5 | - |
| Vt. | - | 1 | 10 | - | - | - | - | 1 | - | - | - | - |
| Mass. | - | - | - | 3 | 8 | 3 | 3 | 6 | - | 1 | 3 | - |
| R.I. | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - |
| Conn. | - | - | - | 1 | 8 | 3 | 2 | 4 | - | - | - | - |
| MID. ATLANTIC | 11 | 31 | 24 | 12 | 24 | 15 | 4 | 23 | 2 | 16 | 27 | - |
| Upstata N.Y. | 8 | 18 | 6 | 5 | 9 | 9 | 2 | 7 | 2 | 9 | 11 | - |
| N.Y. City | 1 | 5 | 18 | - | - | 3 | - | 4 | - | 1 | 3 | - |
| N.J. | 2 | 5 | - | 1 | 9 | 2 | - | 5 | - | 6 | 11 | - |
| Pa . | - | 3 | - | 6 | 6 | 1 | 2 | 7 | - | - | 2 | - |
| E.N. CENTRAL | - | 5 | 24 | 9 | 14 | 17 | 35 | 69 | - | 10 | 19 | 1 |
| Ohio | - | - | 2 | 5 | 5 | 8 | 13 | 15 | - | - | - | - |
| Ind. | - | - | - | - | 3 | 3 | 5 | 11 | - | 5 | 10 | - |
| III. | - | - | 2 | 1 | 1 | 2 | 4 | 7 | - | 2 | 2 | - |
| Mich. | - | 5 | 15 | 3 | 5 | 4 | 10 | 25 | - | 2 | 3 | 1 |
| Wis. | - | - | 5 | - | - | - | 3 | 11 | - | 1 | 4 | - |
| W.N. CENTRAL | - | - | 25 | 7 | 11 | 5 | 22 | 28 | 2 | 2 | 5 | 2 |
| Minn. | - | - | 8 | 5 | 7 | 1 | - | - | 2 | - | - | 1 |
| lowa | - | - | - | 2 | 3 | - | 3 | 6 | - | - | - | - |
| Mo. | - | - | 15 | - | 1 | 3 | - | - | - | - | - | 1 |
| N. Dak. | - | - | - | - | - | 1 | - | - | - | - | - | - |
| S. Dak. | - | - | - | - | - | - | - | - | - | - | - | - |
| Nebr. | - | - | 2 | - | - | - | - | - | - | - | - | - |
| Kans. | - | - | - | - | - | - | 19 | 22 | - | 2 | 5 | - |
| S. ATLANTIC | 7 | 10 | 11 | 29 | 47 | 33 | 16 | 37 | 4 | 2 | 9 | 1 |
| Del. | - | - | - | 1 | 2 | - | , | 2 | - | - | - | - |
| Md. | - | - | 1 | - | - | 7 | 4 | 7 | - | - | - | - |
| D.C. | - | - | - | - | 1 | - | - | - | - | - | - | - |
| V . | - | - | 1 | 5 | 5 | 4 | 6 | 8 | - | - | 5 | - |
| W. Va. | 1 | 1 | - | 1 | 3 | 2 | 1 | 9 | - | 1 | 1 | - |
| N.C. | - | - | 1 | 3 | 6 | 7 | 2 | 2 | - | - | 2 | - |
| S.c. | - | - | - | 1 | 5 | 3 | - | 1 | 1 | - | - | 1 |
| Ga. | 5 | 6 | - | 7 | 11 | 3 | - | 2 | 2 | - | - | - |
| Fla. | 1 | 3 | 8 | 11 | 14 | 7 | 3 | 6 | 1 | 1 | 1 | - |
| E.S. CENTRAL | - | - | 17 | 2 | 14 | 14 | 2 | 10 | 2 | - | 3 | - |
| Ky. | - | - | 8 | - | 5 | 5 | - | 5 | 1 | - | 2 | - |
| Tenn. | - | - | - | 2 | 8 | 2 | - | 3 | 1 | - | 1 | - |
| Ala. | - | - | - | - | - | 7 | 2 | 2 | - | - | - | - |
| Miss. | - | - | 9 | - | 1 | - | - | - | - | - | - | - |
| W.S. CENTRAL | - | 5 | 3 | 13 | 24 | 9 | 9 | 18 | - | 4 | 1 | - |
| Ark. | - | - | 1 | 1 | 4 | 2 | - | - | - | - | - | _ |
| La. | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - |
| Okla. | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Tex. | - | 4 | 2 | 11 | 19 | 6 | 9 | 18 | - | 4 | 7 | - |
| MOUNTAIN | - | 4 | 9 | 8 | 17 | 14 | 3 | 8 | 1 | - | - | - |
| Mant | - | - | - | t | 1 | 1 | - | - | - | - | - | - |
| Idaho | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - |
| Wyo. | - | - | - | - |  | t | 1 |  | - | - | - | - |
| Colo. | - | - | - | 1 | 3 | 6 | 1 | 5 | - | - | - | - |
| N. Mex. | - | - | - | 1 | 4 | 1 | 1 | 5 | 1 | - | - | - |
| Ariz. | - | - | 8 | 5 | 6 | 2 | - | 1 | $-$ | - | - | - |
| Utah | - | - | - | - | 2 | 1 | _ | 1 | - | _ | _ | - |
| Nev. | - | 4 | 1 | - | - | 2 | 1 | 1 | - | - | - | - |
| PACIFIC | 6 | 37 | 31 | 6 | 19 | 29 | 29 | 64 | 2 | 11 | 27 | - |
| Wash. | - | - | 1 | 1 | 3 | 5 | 14 | 26 | 1 | 4 | 4 | - |
| Orag. | $\overline{0}$ | 36 | - | - | - | 3 | 2 | 4 | 1 | 4 | 4 | - |
| Calif. | 6 | 36 | 28 | 2 | 13 | 21 | 12 | 32 | 1 | 1 | 23 | - |
| Alaska | - | - | - | 1 | 1 | 2 | 12 | 32 | 1 | 1 | 23 | - |
| Hawaii | - | 1 | 2 | 2 | 2 | - | 1 | 2 | - | - | - | - |
| Guam | NA | - | - | - | - | - | NA | - | NA | NA | - | - |
| P.R. | 3 | 3 | - | - | - | - | N4 | 3 | $\cdots$ | - | - | - |
| V.I. | NH | - | - | - | - | - | NA | - | NA | Na | - | - |
| Pac. Trust Terr. | NA | - | 1 | - | - | - | va | - | NA | Na | - | - |

NA: Not available.
All delayed reports and corrections will be included in the following week's cumulative totals

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending January 24, 1981, and January 19, 1980 (3rd week)

| REPORTING AREA | TUBERCULOSIS |  | $\begin{array}{\|l} \hline \begin{array}{l} \text { TULA } \\ \text { REMIA } \end{array} \\ \hline \begin{array}{l} \text { CUMM. } \\ \text { 1981 } \end{array} \\ \hline \end{array}$ | TYPHOID FEVER |  | TYPHUS FEVER (Tick-borne) (RMSF) |  | VENEfEAL DISEASES (Civilian) |  |  |  |  |  | RAEIES <br> (in <br> Animals) <br> CUM. <br> 19月1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | GONDRAHEA |  |  | SYPHILIS (Prio \& Sec.) |  |
|  | 1981 | $\underset{\text { CUM }}{\substack{\text { CUM }}}$ |  | 1981 | $\begin{aligned} & \text { CUM. } \\ & 1981 \end{aligned}$ |  |  | 1981 | CUM. 1981 | 1981 | CUM. 1981 | $\begin{aligned} & \text { CuM. } \\ & \text { 1980 } \end{aligned}$ | 1981 |  | $\begin{aligned} & \text { CUM. } \\ & 1981 \end{aligned}$ | $\begin{aligned} & \text { CUM. } \\ & 1980 \end{aligned}$ |
| UNITED STATES 427 |  | 1.111 |  | 4 | 4 | 25 | - | 4 | 21.145 | 58,055 | 51.757 | 562 | 1,656 | 1,379 | 240 |
| NEW ENGLAND <br> Maîne <br> N.H. <br> V . | 13 | 34 | - | - | 1 | - | - | 644 | 1.541 | 1.601 | 20 | 36 | 30 | - |
|  | 1 | 4 | - | - | - | - | - | 19 | 73 | 102 | 1 | 1 | - |  |
|  | - | - | - |  | - | - | - | 21 | 63 | 58 | - | - |  | - |
| Mass. | 1 | 1 | - | - | $\bar{\square}$ | - | - | 14 | 32 | 52 | - | - | - | - |
|  | 7 | 23 | - | - | 1 | - | - | 268 | 603 | 601 | 11 | 24 | 16 | - |
| R.I. Conn. | 4 | 6 |  |  | - | - | - | 30 | 75 695 | 64 724 | 8 | 10 | 2 | - |
| MID. ATLANTIC <br> Upstate N.Y. <br> N.Y. City <br> N.J. <br> Pa . |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | 51 | 183 | - | 1 | 3 | - | - | 1,893 339 | 5.589 | 5.921 | 95 | 254 | 219 | - |
|  | 30 | 32 | - | 1 | 1 | - | - | 339 700 | 506 2.325 | 460 2.637 | 11 56 | 25 151 | 6 162 | - |
|  | 3 | 66 55 | - | - | 2 | - | - | 700 135 | 2,325 1,099 | 2,637 1,144 | 16 10 | 151 29 | 162 | - |
|  | 8 | 30 | - | - | - | - | - | 719 | 1.659 | 1.680 | 18 | 49 | 32 | - |
| E.N. CENTRAL <br> Ohio <br> Ind. <br> III. <br> Mich. <br> Wis. | 78 | 143 | - | 1 | 1 | - | - | 5.098 | 9.153 | 8,835 | 36 | 77 | 144 | 24 |
|  | 18 | 31 | - | - | - | - | - | 2.664 | 3.922 | 3.113 | 7 | 28 | 29 | - |
|  | 1 | 1 | - | - | - | - | - | 489 | 804 | 613 | 3 | 7 | 16 | 2 |
|  | 20 | 70 | - | 1 | 1 | - | - | 943 | 1,746 | 2,606 | 23 | 23 | 78 | 7 |
|  | 37 | 37 | - | - | - | - | - | 708 | 1.876 | 1,705 | 2 | 9 | 14 | - |
|  | 2 | 4 | - | - | - | - | - | 294 | 805 | 798 | 1 | 10 | 7 | 15 |
| W.N. CEN <br> Minn. <br> lowa <br> Mo. <br> N. Dak. <br> $S$ Dak. <br> Nobr. <br> Kans. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 8 | 20 | - | 1 | 1 | - | 1 | 1,116 | 3, 105 | 2.356 | 9 | 27 | 10 | 99 |
|  | - | - | - | - | - | - | - | 354 | 484 | 397 | 3 | 5 | 1 | 15 |
|  | 4 | 8 | - | - | - | - | - | 100 | 293 | 296 | - | - | 2 | 36 |
|  | - | - | - | - | - | - | 1 | 346 | 1.441 | 946 | 5 | 17 | 7 | 10 |
|  | 4 | 4 | - | $\bar{\square}$ | $\bar{\square}$ | - | - | 6 | 35 | 33 | - | - | - | 26 |
|  | - | 4 | - | 1 | 1 | - | - | 31 | 88 | 70 | - | - | - | - |
|  | - | - | - | - | - | - | - | 85 | 246 | 194 | - | 2 | - | 4 |
|  | - | 4 | - | - | - | - | - | 154 | 518 | 420 | 1 | 3 | - | 8 |
| \& ATLANTIC | 107 | 253 | 2 | - | 2 | - | 2 | 5,485 | 14,081 | 12,615 | 155 | 388 | 283 | 14 |
| Md. | 1 | 1 | 1 | - | - | - | - | 85 | 270 | 202 | - | 1 | 1 | - |
| D.c. | 7 | 20 | - | - | - | - | - | 515 | 1,185 | 911 | 7 | 30 | 28 | - |
|  | 9 | 18 | - | - | - | - | - | 379 | 881 | 772 | 17 | 44 | 21 | - |
| W. $\mathrm{V}_{\mathrm{B}}$.N. | 11 | 24 | - | - | - | - | - | 756 | 1,524 | 1,139 | 13 | 24 | 21 | 3 |
|  | 1 | 11 | - | - | 2 | - | = | 44 | 182 | 170 | - | - | - | 1 |
| N.C. S.C. S. | 31 | 69 | - | - | - | - | 2 | 903 | 2.450 | 1.975 | 11 | 39 | 19 | - |
| $\mathrm{G}_{\mathrm{a}}$. $\mathrm{Fl}_{\mathrm{t}}$. | 5 | 20 | 1 | - | - | - | - | 324 | 1. 261 | 1.411 | 7 | 26 | 5 | $\cdots$ |
|  | 8 | 25 | - | - | - | - | - | 1,103 | 3.128 | 2,491 | 33 | 102 | 85 | 7 |
|  | 34 | 65 | - | - | - | - | - | 1.376 | 3.200 | 3.544 | 67 | 122 | 103 | 3 |
| E.S. CENTRAL <br> Ky. <br> Tөлп. <br> Ala. <br> Miss. | 31 | 101 | 1 | - | 1 | - | 1 | 1,099 | 4.679 | 4.191 | 27 | 146 | 114 | 10 |
|  | 11 | 24 | 1 | - | - | - | - | 131 | 617 | 638 | 3 | 8 | 11 | 3 |
|  | 13 | 32 | - | - | - | - | 1 | 493 | 1.679 | 1,729 | 3 | 47 | 56 | 3 |
|  | 1 | 45 | - | - | - | - | - | 185 | 1.365 | 903 | 6 | 51 | 15 | 4 |
|  | - | - | - | - | 1 | - | - | 290 | 1.018 | 923 | 15 | 40 | 32 | - |
| W.S. CENTRAL Ark. <br> Ls. <br> $\mathrm{Okl}_{\mathrm{E}}$. <br> Tex. | 30 | 66 | - | - | - | - | - | 2,474 | 9,491 | 6,448 | 126 | 437 | 295 | 55 |
|  | - | - | - | - | - | - | - | 152 | 440 | 480 | 6 | 6 | 3 | 16 |
|  | 1 | 21 | - | - | - | - | - | 519 | 1,316 | 573 | 41 | 76 | 67 | 5 |
|  | 3 | 20 | - | - | - | - | - | 302 | 889 | 790 | 9 | 12 | 2 | 10 |
|  | 20 | 25 | - | - | - | - | - | 1,501 | 6,846 | 4,605 | 70 | 343 | 223 | 24 |
| MOUNTAIN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mont. Idatho | 10 | 20 | 1 | - | - | - | - | 716 | 2.040 | 1,977 | 20 | 33 | 23 | 5 |
|  | 3 | 1 | - | - | - | - | - | 26 | 71 | 90 | - | , | - | 5 |
| Who.Colo | 3 | 3 | - | - | - | - | - | 27 | 61 | 84 | 2 | 2 | 1 | - |
|  | 3 | - | 1 | - | - | - | - | 11 | 56 | 71 | 1 | 1 | 2 | - |
| N. Mex, | 3 | 4 | 1 | - | - | - | - | 273 | 676 | 498 | 5 | 12 | 10 | - |
| ${ }_{\text {Arizax }}{ }_{\text {U }}$ | 3 | 9 | - | - | - | - | - | 96 | 264 | 348 | 7 | 7 | 5 | - |
|  | - | - | - | - | - | - | - | 183 | 498 | 445 | - | - | - | - |
| Noy. | - | - | - | - | - | - | - | 38 | 89 | 101 | - | - | 2 | - |
|  | 1 | 3 | - | - | - | - | - | 62 | 325 | 340 | 5 | 11 | 3 | - |
|  | 99 | 291 | - | 1 | 16 | - | - | 2,620 | 8,376 | 7,813 | 74 | 258 | 261 | 33 |
| Wessh. Oreg. | 1 | 17 | - | - | - | - | - | 287 | 9. 713 | 801 | 7 | - | 18 | - |
| Calif. | 3 | 10 | - | - | - | - | - | 191 | 545 | 472 | 3 | 1 | 6 | - |
| Alaska <br> Hawail | 94 | 261 | - | 1 | 14 | - | - | 2,011 | 6,739 | 6,257 | 65 | 241 | 233 | 31 |
|  | - | 1 | - | $\underline{-}$ | 14 | - | - | 2,00 | 192 | 6. 195 | - | 24 | 1 | 2 |
| Hawaii | 1 | 3 | - | - | 2 | - | - | 51 | 187 | 98 | 6 | 8 | 3 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Guam P.R. | NA | - | - | Na | - | NA | - | NA | - | 12 | NA | - | - | - |
| V.1.Pac. Trust Terr. | - | - | - | - | - | - | - | 70 | 171 | 51 | 5 | 15 | 11 | 2 |
|  | NA | - | - | Na | - | NA | - | Na | - | 5 | Na | - | 3 | - |
| Pac. Trust Terr. <br> NA. | NA | - | - | NA | - | NA | - | NA | - | 42 | Na | - | - | - |

All delayed available.

TABLE IV. Deaths in 121 U.S. cities,* week ending January 24, 1981 (3rd week)

| REPORTING AREA | all causes, by age (years) |  |  |  |  | $\begin{aligned} & \text { P\& I*: } \\ & \text { TOTAL } \end{aligned}$ | REPORTING AREA | ALL CAUSES, by age (Yeats) |  |  |  |  | $\left\lvert\, \begin{aligned} & P \& l^{* *} \\ & \text { TGTAL } \end{aligned}\right.$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\text { AGES }}{\text { ALL }}$ | $>65$ | 45-64 | 2544 | $<1$ |  |  | $\begin{aligned} & \text { ALL } \\ & \text { AGES } \end{aligned}$ | $>65$ | 45.64 | 25.44 | $<1$ |  |
| NEW ENGLAND | 916 | 640 | 187 | 44 | 25 | 108 | S. ATLANTIC | 1,339 | 846 | 340 | 81 | 37 | 91 |
| Boston. Mass. | 268 | 163 | 61 | 19 | 11 | 44 | Atlanta, Ga. | 229 | 135 | 64 | 20 | 7 | 13 |
| Bridgeport, Conn. | 54 | 37 | 13 | 4 | - | - | Baltimore, Md. | 22 | 14 | 8 | - | - | 1 |
| Cambridga, Mass. | 27 | 22 | 4 | 1 | - | 6 | Charlotte, N.C. | 88 | 49 | 30 | 5 | 1 | 8 |
| Fall River, Mass. | 39 | 33 | 6 | - | - | - | Jacksonvilla, Fla. | 117 | 73 | 32 | 6 | 3 | 6 |
| Hartiord, Conn. | 65 | 41 | 17 | 2 | 4 | - | Miami, Fla. | 160 | 97 | 35 | 15 | 9 | 11 |
| Lowall, Mass. | 54 | 42 | 11 | 1 | - | 4 | Noriolk. Va. | 64 | 42 | 16 | 3 | 3 | 9 |
| Lynn, Mass. | 29 | 20 | , | 1 | - | - | Richmond. Va. | 86 | 50 | 22 | 6 |  | 14 |
| New Badford, Mass. | 31 | 26 | 3 | 2 | - | 1 | Squannah. Ga. | 65 | 41 | 15 | 3 | 2 | 5 |
| Naw Haven, Conn. | 83 | 62 | 15 | 2 | 2 | 11 | St. Petarsburg. Fla. | 146 | 127 | 11 | 3 | 1 | 6 |
| Providencs, R.I. | 84 | 65 | 11 | 5 | 2 | 11 | Tampa. Fla. | 85 | 46 | 30 | 4 | 3 | 8 |
| Somerville, Mass. | 10 | 7 | 3 | - | - | - | Washington, D.C. | 192 | 112 | 59 | 11 | 5 | 3 |
| Springfield, Mass. | 49 | 32 | 10 | 3 | 3 | 5 | Wilmington, Del. | 85 | 60 | 18 | 5 | - | 7 |
| Watarbury. Conn. | 56 | 42 | 10 | 1 | 2 | 12 |  |  |  |  |  |  |  |
| Worcester, Mass. | 67 | 48 | 15 | 3 | 1 | 14 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | E.S. CENTRAL | 924 | 596 | 211 | 51 | 34 | 64 |
|  |  |  |  |  |  |  | Birmingham, Ala. | 110 | 76 | 24 | 6 | 2 | 3 |
| MID. ATLANTIC | 3. 133 | 2,121 | 677 | 175 | 75 | 199 | Chattanonga, Tenn. | 78 | 54 | 19 | 4 | 1 | 4 |
| Albany, N.Y. | 53 | 32 | 13 | 2 | 5 | 3 | Knoxville, Tenn. | 74 | 57 | 12 | - | - | 1 |
| Alentown, Pa. | 26 | 19 | 7 | - | - | 2 | Louisville, Ky. | 127 | 86 | 23 | 7 | 4 | 12 |
| Buffalo, N.Y. | 147 | 102 | 30 | 8 | 1 | 25 | Memphis, Tenn. | 238 | 145 | 57 | 16 | 12 | 22, |
| Camden, N.J. | 67 | 48 | 14 | 2 | - | 3 | Mobile, Ala. | 112 | 65 | 29 | 5 | 8 | 11 |
| Elizabath, N.J. | 33 | 19 | 12 | 1 | - | 2 | Montgomery, Ala. | 52 | 36 | 13 | 1 | 1 | - |
| Erie, Pa. ${ }^{+}$ | 51 | 36 | 10 | 2 | - | 6 | Nashville, Tenn. | 133 | 77 | 34 | 12 | 6 | 11 |
| Jersey City, N.J. | 56 | 30 | 21 | 3 | 2 | 1 |  |  |  |  |  |  |  |
| Newark, N.J. | 79 | 38 | 26 | 6 | 4 | 6 |  |  |  |  |  |  |  |
| N.Y. City, N.Y. | 1,713 | 1,180 | 346 | 114 | 35 | 85 | W.S. CENTRAL | 1,417 | 868 | 321 | 92 | 62 | 99 |
| Paterson, N.J. | 42 | 15 | 10 | 1 | 8 | - | Austin, Tex. | 58 | 38 | 11 | 6 | 1 | 3 |
| Philadelphia, Pa. $\dagger$ | 277 | 171 | 70 | 18 | 9 | 18 | Baton Rouga, La | 66 | 42 | 15 | 5 | 1 | 8 |
| Pitzburgh. Pa. $\dagger$ | 87 | 53 | 28 | 3 | 2 | 4 | Corpus Christi, Tex. | 23 | 11 | 6 | 1 | 5 | - |
| Heading, Pa | 46 | 27 | 11 | 3 | 1 | 6 | Dallas, Tex. | 237 | 139 | 65 | 12 | 6 | 15 |
| Rochester, N. Y. | 160 | 123 | 26 | 5 | 3 | 20 | El Paso, Tex. | 83 | 46 | 17 | 5 | 8 | 11 |
| Schenectady, N.Y. | 29 | 24 | 5 | - | - | 4 | Fort Worth, Tex. | 129 | 93 | 23 | 8 | - | 11 |
| Scranton, Pa. $\dagger$ | 44 | 29 | 13 | 1 | - | 4 | Houston, Tex. | 193 | 97 | 49 | 18 | 17 | - |
| Syracuse, N.Y. | 99 | 73 | 18 | 3 | 3 | 2 | Little Rock, Ark. | 99 | 68 | 20 | 5 | 2 | 13 |
| Tranton, N.J. | 49 | 34 | 8 | 3 | 1 | 2 | Naw Orieans, La. | 142 | 19 | 31 | 11 | 11 | 5 |
| Utica, N.Y. | 44 | 35 | 7 | - | 1 | 4 | San Antonio, Tex. | 229 | 142 | 55 | 12 | 7 | 18 |
| Yonkers, N.Y. | 31 | 29 | 2 | - | - | 2 | Shreveport, La. | 71 | 44 | 17 | 5 | 3 | 5 |
|  |  |  |  |  |  |  | Tulsa, Okla. | 87 | 69 | 12 | 4 | 1 | 10 |
| E.N. CENTRAL | 2. 845 | 1,850 | 677 | 165 | 72 | 149 |  |  |  |  |  |  |  |
| Akron, Ohio | 74 | 50 | 22 | 2 | - | - | MOUNTAIN | 706 | 436 | 176 | 48 | 21 | 44 |
| Canton. Ohio | - 50 | 36 | 10 | 1 | 1 | 3 | Albuquerque, N. Mex. | 63 | 36 | 12 | 8 | 2 | 5 |
| Chicago, III. | 649 | 411 | 149 | 50 | 23 | 21 | Colo. Springs, Colo. | 51 | 39 | 9 | 3 | - | 5 |
| Cincinnati, Ohio | 160 | 116 | 33 | 8 | 2 | 25 | Denver, Colo. | 164 | 108 | 36 | 9 | 4 | 14 |
| Cleveland, Ohic | 198 | 113 | 65 | 7 | 6 | 3 | Las Vegas, Nev. | 52 | 29 | 20 | 2 | - | 1 |
| Columbus, Ohia | 176 | 121 | 32 | 11 | 7 | 10 | Ogden, Utah | 26 | 19 | 3 | 1 | 3 | 2 |
| Dayton. Ohio | 130 | 82 | 36 | 10 | 2 | 7 | Phoanix, Ariz. | 182 | 113 | 45 | 14 | 6 | 7 |
| Detroit, Mich. | 347 | 214 | 80 | 26 | 9 | 23 | Pueblo. Colo. | 20 | 13 | 6 | 1 | - | 5 |
| Evansville, Ind. | 48 | 29 | 15 | 2 | - | 2 | Salt Lake City, Uiah | 63 | 32 | 17 | 2 | 6 | 2 |
| Fort Wayne, Ind. | 57 | 38 | 15 | 2 | - | 3 | Tucson, Ariz. | 85 | 47 | 28 | 8 | - | 3 |
| Gary. Ind. | 32 | 14 | 13 | 5 | - | - |  |  |  |  |  |  |  |
| Grand Rapids, Mich. | 71 | 50 | 17 | 1 | 2 | 5 |  |  |  |  |  |  |  |
| Indianapolis, Ind. | 267 | 173 | 68 | 7 | 5 | 11 | PACIFIC | 2,330 | 1,621 | 456 | 131 | 61 | 153 |
| Madison, Wis. | 40 | 25 | 11 | 1 | 3 | 8 | Berkeley, Calif. | 23 | 15 | 6 | 1 | 1 | 3 |
| Milwaukee, Wis. | 168 | 121 | 26 | 12 | 3 | 4 | Frenno, Calif. | 81 | 53 | 16 | 4 | 4 | 3 |
| Puoria. III. | 71 | 44 | 16 | 4 | 3 | 2 | Glendale, Calif. | 43 | 33 | 6 | 2 | 1 | $-$ |
| Rockford, III. | 51 | 29 | 12 | 6 | 2 | 4 | Honolulu, Hawaii | 10 | 41 | 20 | 5 | 3 | 2 |
| South Bend, Ind. | 54 | 41 | 11 | 1 | - | 5 | Long Beach, Calif. | 144 | 102 | 33 | 4 | 3 | 7 |
| Tolado. Ohio | 139 | 97 | 30 | 7 | 3 | 12 | Los Angeles, Calif. | 909 | 636 | 167 | 56 | 19 | 56 |
| Youngstown, Ohic | 65 | 46 | 16 | 2 | 1 | 1 | Oakland, Calif. | 76 | 54 | 13 | 5 | 3 | 8 |
|  |  |  |  |  |  |  | Pasadena, Calif. | 25 | 22 | 3 | - | - | 5 |
|  |  |  |  |  |  |  | Portland, Oreg. | 150 | 109 | 30 | 7 | 3 | 5 |
| W.N. CENTRAL | 959 | 681 | 177 | 67 | 30 | 83 | Sacramento, Calif. | 76 | 51 | 10 | 5 | 7 | 15 |
| Des Moines, lowa | 88 | 62 | 18 | 4 | 2 | 3 | San Diego. Calif. | 138 | 99 | 25 | 6 | 3 | 1 |
| Duluth. Minn. | 39 | 36 | 2 | 1 | - | 4 | San Francisco, Calif. | 176 | 124 | 36 | 8 | 6 | 5 |
| Kansas City, Kans. | 43 | 28 | 8 | 3 | 2 | 3 | San Jose, Calif. | 165 | 110 | 37 | 9 | 2 | 19 |
| Kansas City, Mo. | 134 | 94 | 25 | 9 | 4 | 14 | Sastila, Wash. | 148 | 91 | 41 | 11 | 3 | 9 |
| Lincoln, Nebr- | 36 | 27 | 6 | - | 2 | 2 | Spokane, Wash. | 59 | 45 | 8 | 4 | 2 | 7 |
| Minneapolis, Minn. | 111 | 80 | 16 | 5 | 6 | 10 | Tacoma, Wash. | 47 | 36 | 5 | 4 | 1 | 2 |
| Omaha, Nabr. | 106 | 79 | 17 | 5 | 2 | 12 |  |  |  |  |  |  |  |
| St. Louis, Mo. | 234 | 165 | 47 | 13 | 5 | 14 |  |  |  |  |  |  |  |
| St Paul, Minn. | 85 | 60 | 13 | 5 | 4 | 6 | TOTAL | 14,569 | \%.659 | 3.222 | 834 | 417 | 990 |
| Wichita. Kans. | 83 | 50 | 25 | 2 | 3 | 15 |  |  |  |  |  |  |  |
| *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. <br> - P Pneumonia and influenra |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts ior the current week. Complete counts will be available in 4 to 6 weeks. |  |  |  |  |  |  |  |  |  |  |  |  |  |

## References

1. CDC. Follow-up on toxic-shock syndrome. MMWR 1980;29:297-9.
2. Todd J, Fishaut M, Kapral F, Welch T. Toxic-shock syndrome associated with phage-group-I staphylococci. Lancet 1978;2:1116-8.
3. CDC. Toxic-shock syndrome - United States. MMWR 1980;29:229-30.
4. CDC. Follow-up on toxic-shock syndrome. MMWR 1980;29:441-5.
5. McKenna UG, Meadows JA III, Brewer NS, Wilson WR, Perrault J. Toxic-shock syndrome, a newly recognized entity: report of 11 cases. Mayo Clin Proc 1980;55:663-72.
6. Shands KN, Schmid GP, Dan BB, et al. Toxic-shock syndrome in menstruating women: its association with tampon use and Staphylococcus aureus and the clinical features in 52 cases. N Engl J Med 1980;303:1436-42.
7. Davis JP, Chesney PJ, Wand PJ, et al. Toxic-shock syndrome: epidemiologic features, recurrence, risk factors, and prevention. N Engl J Med 1980;303:1429-35.
8. CDC. Toxic-shock syndrome - Utah. MMWR 1980;29:495-6.

## Current Trends

## Availability of Human Rabies Immune Globulin

Currently, there is a shortage of Cutter Laboratories' Rabies Immune Globulin (Hyperab). This shortage is likely to continue until early March 1981. Until then, Cutter will release Hyperab for use only on a case-by-case basis; it will not be supplied in larger quantities to replace depleted stocks.

Should health departments or private physicians be unable to obtain Hyperab through usual channels for rabies postexposure treatment, they should contact the nearest regional office of Cutter Laboratories (listed below) for assistance.

Chattanooga, Tennessee: 615-624-4661
New Orleans, Louisiana: 504-469-8479
Dallas, Texas: 214-661-5850
Los Angeles, California: 213-968-8561
San Francisco, California: 415-276-8200
Seattle, Washington: 206-575-0490
Ogden (Salt Lake City), Utah: 801-393-8401
Chicago, Illinois: 312-595-3620
New York, New York: 201-238-0140
Reparted by Viral Diseases Div, Center for Infectious Diseasss, CDC.

## Influenza - United States

Since November 1980, a total of 40 states and the District of Columbia have reported influenza $\mathrm{A}(\mathrm{H} 3 \mathrm{~N} 2$ ) isolates. In addition to earlier reports (1), the virus has been isolated in Maine, Rhode Island, Ohio, lowa, South Dakota, Nebraska, Kansas, Delaware, North Carolina, South Carolina, Florida, Alabama, Arkansas, Texas, Washington, Alaska, and Hawaii.*

[^3]
## Influenza - Continued

With the addition of 6 states-Connecticut, Pennsylvania, Michigan, Wisconsin, South Dakota, and Tennessee-a total of 9 states and the District of Columbia have reported the isolate of virus similar to A/Brazil/78(H1N1) (1). For the week ending January 17, 1981, 13 states reported widespread influenza outbreaks and 24 reported regional outbreaks of the disease. Deaths due to pneumonia and influenza, recorded in 121 cities, were elevated for the seventh consecutive week since December 13, 1980.
Reported by participating State Epidemiologists; Immunization Div, Center for Prevention Services, Virology Div, Center for Infectious Diseases, Consolidated Surveillance and Communications Activity, Epidemiology Program Office, CDC.

## Reference

1. CDC. Influenza - United States. MMWR 1980;29:615-6.

## Measles Mortality - United States, 1960-1980

CDC has received reports of 6 deaths attributed to measles in 1980; 3 occurred in preschool children and 3 in adults (Table 1). The patients ranged in age from 11 months to 33 years and lived in 4 states: 1 in California, 2 in Minnesota, 2 in New Jersey, and 1 in Oklahoma. Four patients, including all 3 preschool children, had pneumonia; the remaining 2 adults had encephalitis. Two patients had underlying illnesses: 1 preschool child had leukemia, and 1 adult had psychomotor retardation. Four of the 6 cases occurred during large measles outbreaks; none of the cases had a documented history of measles vaccination.

From 1960 to 1980 , there was a significant decrease in reported measles cases and reported measles deaths in the United States (Figure 3). In 1960-1962-the 3 years preceding licensure of measles vaccine-there was an annual average of 450,051 reported measles cases and 407 measles deaths. For 1980, the provisional number of measles cases was 13,430-a record low and $<3 \%$ of the average number reported in 1960-1962. The provisional total of 6 measles deaths is $1.5 \%$ of the average number reported for 1960-1962.

The reported number of measles deaths has been <100 per year since 1967 and has been $\leqslant 20$ per year since 1972 . The lowest official total for reported measles deaths is 11 in 1978, the last year for which final data are available from the National Center for Health Statistics.
Reported by J Chin, MD, State Epidemiologist, California Dept of Health Services; A Dean, MD, State Epidemiologist, Minnesota State Dept of Health; Immunization Program, and WE Parkin, DVM, State Epidemiologist, New Jersey State Dept of Health; Immunization Div, Center for Prevention Services, CDC.

TABLE 1. Epidemiologic features of fatal measles cases, United States, 1980

| Age <br> (Years) | Sex | Complication | Underlying <br> condition | Vaccine <br> history |
| :---: | :---: | :---: | :---: | :---: |
| 1 | M | Pneumonia | None | Unvaccinated |
| 2 | F | Pneumonia | None | Unvaccinated |
| 4 | F | Pneumonia | Pneumonia | Eeukemia |

Measles - Continued
Editorial Note: The 6 measles deaths in 1980 illustrate that the characteristics of fatal measles cases are the same now as they were in the prevaccination era: pneumonia and encephalitis are the most common causes of death (1), and underlying illnesses such as leukemia increase the risk of death. Measles case-fatality ratios are highest for preschool chiidren and adults (2). The most frequent cause of death for young children is pneumonia, while neurologic complications account for a greater proportion of deaths of older individuals (1). None of the 1980 deaths occurred in school-age children (5-18 years) for whom measles case-fatality ratios are low (2). This age group has also received special attention in the effort to eliminate measles through vigorous enforcement of school immunization laws.
References

1. Barkin RM. Measles mortality analysis of the primary cause of death. Am J Dis Child 1975;129: 307-9.
2. Englehardt J, Halsey NA, Curtis AR, Eddins DL, Hinman AR. Measles mortality in the United States 1971-1975. Am J Public Health 1980;70:1166-9.
FIGURE 3. Reported measles cases and deaths, by year, United States, 1960-1980*

*Reported measles cases are provisional for 1980. Reported measles deaths are not yet available for 1979 and are provisional for 1980.

## Toxic-Shock Syndrome - Canada

As of January 15, 1981, 17 confirmed and 5 suspected cases of toxic-shock syndrome (TSS) had been reported in Canada (Table 2). The 2 most recent cases-both suspectedwere from Manitoba; one was the first Canadian fatality associated with TSS.
TABLE 2. Reported cases of toxic-shock syndrome, Canada, as of January 15, 1981

| Province | Confirmed cases | Suspected cases |
| :--- | :---: | :---: |
| British Columbia | 10 | 2 |
| Quebec | 4 | 0 |
| Ontario | 2 | 1 |
| Manitoba | 1 | 2 |
| TOTAL | 17 | 5 |

The Laboratory Centre for Disease Control (LCDC) has sent information packets and case-report forms to the Provincial Epidemiologists. Physicians encountering suspected cases are being urged to contact their Provincial Epidemiologist or the LCDC Bureau of Epidemiology. A letter on TSS and epidemiologic studies of this syndrome in Canada has also been sent to all physicians.

To date, there appears to have been no change in the purchasing habits of Canadian women with regard to tampons. The Federal Health and Welfare Minister has announced that, as of December 1, 1980, manufacturers of tampons are required to have warning labels on the outside of all packages sold in Canada and to include an information package insert.
Reported by JPeacocke, Communicable Disease Div, Bur of Epidemiology, LCDC, Ottawa, as reported in the Canada Diseases Weekly Report (1).

## Reference

1. Laboratory Centre for Disease Control. Toxic-shock syndrome. Canada Diseases Weekly Report 1980;6:241-2.
[^4]Postage and Fees Paid
U.S. Department of HHS

Director, Centers for Disease Control Willam H. Foege, M.D.
Director, Epidemlology Program Office Phllip S. Brachman, M.D.
Editor
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[^0]:    *The case definition requires 4 major criteria (fever, hypotension, rash, and desquamation), involvement of 3 organ systems, and absence of evidence for other etiologies (1).

[^1]:    All delayed reports and corrections will be included in the following week's cumulative totals.

[^2]:    

[^3]:    *Texas, Washington, Alaska, and Hawaii also reported isolates in the July-October period.

[^4]:    U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

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