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## Epidemiologic Notes and Reports

## Gastroenteritis Associated with Lake Swimming - Michigan

An outbreak of gastrointestinal illness involving at least 239 cases occurred among people who visited a recreational park in Macomb County, Michigan, during July (Figure 1). The illness, suspected to be viral in nature, was associated with swimming in a lake at the park.

On July 17, the Macomb County Health Department (MCHD) received a report that several members of a group that had visited a local recreational park on July 15 had become ill with gastroenteritis. From July 17-27, in response to requests of news media that park visitors who had become ill should notify the MCHD, 300 phone calls of illness were received at the health department. The predominant symptoms in these persons, who were from all age groups, were vomiting and/or diarrhea, with nausea, abdominal cramps, headache, low-grade fever, and sore throat as part of the syndrome. Most individuals recovered within 24 to 48 hours. For 52 persons who were the only cases in their respective households, the incubation period ranged from 6 hours to 8 days (median, 2 days). For $47(90 \%)$ of these persons, incubation periods ranged from 6 hours to 3 days. A parkassociated case was thus defined as one in which gastroenteritis occurred within 3 days of a July park visit. There were 191 such cases. Forty-eight additional park visitors developed gastroenteritis $\geqslant 4$ days after their park visit, but each such case was associated with an earlier household case, suggesting secondary spread (Figure 1). Strong evidence that secondary transmission occurred also was provided by preliminary estimates of $20 \%-30 \%$ attack rates among household members who did not visit the park.

Bacterial cultures of stool specimens taken from 5 primary and secondary household cases were negative. Further studies of stool specimens and paired serum specimens are in progress.

Illness was not associated with consumption of water from the park's drinking facilities, nor with consumption of food or iced beverages purchased at the park's 2 concession stands. However, among 135 individuals from 3 groups who visited the park on July 15, gastroenteritis was documented in 11 of 38 individuals (29\%) who waded or swam in the lake, but in only 1 of the 97 (1\%) of those who did not ( $\mathrm{p}<.00001$ ). For those who went into the lake, risk increased with the amount of time spent in the water (Table 1). A casecontrol study showed that 44 of 47 park-associated cases ( $94 \%$ ) were in persons who swam with their heads in or under the water, compared with only 26 of 35 swimming, family-matched controls ( $74 \%$ ) ( $.02<\mathrm{p}<.05$ ). Of the 191 persons who became ill within 3 days of their park visit, 187 had visited one or the other of the park's 2 beaches (Figure 2). Since these beaches were located on opposite sides of the lake and were separated by 3,500 feet of water, this suggested widespread contamination of the water from July 14 through July 16.

FIGURE 1. Cases of gastroenteritis in visitors to a recreational park, by date of onset, Macomb County, Michigan, July 1979


1979

TABLE 1. Lake swimming associated with gastroenteritis, Michigan, July 15, 1979

| Time in water | III | Well | Total | Attack rate (\%) |
| :--- | ---: | :---: | :---: | :---: |
| $<1 / 2$ hour | 2 | 12 | 14 | 14 |
| $1 / 2-1$ hour | 4 | 9 | 13 | 31 |
| $>1$ hour | 5 | 6 | 11 | 45 |
| TOTAL | 11 | 27 | 38 | 29 |

Routine sampling of lake water on July 13 and July 17 failed to reveal abnormal coliform counts. A sanitary investigation conducted by the MCHD and the Michigan State Department of Natural Resources did not implicate faulty sewer lines or overflowing septic tanks as potential sources of fecal contamination. The lake, which was closed for swimming on July 18, was reopened on August 9; no further cases of illness have been reported.

FIGURE 2. Cases of gastroenteritis, by beach* and date of exposure, Michigan, June 30-July 18, 1979†


*Excludes 9 patients who could not recall which beach they had visited.
†Beaches were closed at 4:00 pm on July 18.

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Editorial Note: Although no etiologic agent has yet been identified, the high secondary attack rate noted in this outbreak suggests an infectious agent, probably a virus. Several outbreaks of acute infectious non-bacterial gastroenteritis (AING) have been traced to potable water sources contaminated with human sewage, and a single epidemic of viral gastroenteritis has been related to swimming in an unchlorinated public swimming pool.

## Gastroenteritis - Continued

The etiologic role of parvovirus-like agents, including Norwalk agent, in some of the more recent waterborne outbreaks of gastroenteritis has been established (1-3). This outbreak, based on its similar clinical features, may have been caused by one of these viruses.

The failure to document sewage contamination in the lake is not surprising since the period of maximum risk was apparently transient and did not overlap with the schedule for routine water sampling.
References

1. MMWR $26: 13,1977$
2. MMWR 27:403, 1978
3. Morens DM, Zweighaft RM, Vernon TM, et al: A waterborne outbreak of gastroenteritis with secondary person-to-person spread. Association with a viral agent. Lancet 1:964, 1979

TABLE I. Summary - cases of specified notifiable diseases, United States [Cumulative tota/s include revised and delayed reports through previous weeks.]

| DISEASE | 35th WEEK ENDING |  | $\begin{gathered} \text { MEDIAN } \\ \text { 1974.1978** } \end{gathered}$ | CUMULATIVE, FIRST 35 WEEKS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | September 1. 1979 | $\begin{gathered} \text { September } 2 \text { ، } \\ 1978^{*} \end{gathered}$ |  | September 1. 1978 | September 2, 1978: | $\begin{array}{\|c\|} \hline \text { MEDIAN } \\ 1974-1978 * * \\ \hline \end{array}$ |
| Aseptic meningitis | 374 | 293 | 127 | 3,888 | 3,278 | 2,058 |
| Brucallosis | 4 | - | 2 | 98 | 117 | 151 |
| Chickenpox | 229 | 243 | 243 | 170.784 | 123.687 | 123.687 |
| Diphtheria | - | 3 | 5 | 62 | 59 | 126 |
| Encephalitis: Primary (arthropod-borne 8 unspec.) | 44 | 74 | 59 | 533 | 697 | 697 |
| Post-infectious | 1 | 2 | 5 | 165 | 154 | 189 |
| Hepatitis, Viral: Typa $\mathbf{B}$ | 223 | 301 | 282 | 9.567 | 10.134 | 10.019 |
| Type A | 468 | 538 | 598 | 19.360 | 19.190 | 23.080 |
| Type unspecified | 175 | 200 | 149 | 7.012 | 5,556 | 5,624 |
| Malaria | 10 | 22 | 11 | 434 | 499 | 299 |
| Massles (ruboola) | 44 | 130 | 109 | 12.044 | 23.583 | 23,583 |
| Meningococcal infections: Total | 24 | 32 | 28 | 1,893 | 1,768 | 1,125 |
| Civilian | 24 | 32 | 26 | 1,883 | 1.746 | 1.113 |
| Mumpes Military | - | - | - | 10 | 22 | 22 |
| Mumps | 60 | 87 | 127 | 11.075 | 13,298 | 32.373 |
| Partussis | 26 | 44 | 46 | 912 | 1,398 | 1.022 |
| Ruballa (German meesles) | 31 | 154 | 63 | 10,594 | 16,685 | 14.705 |
| Tetanus | 4 | 5 | 2 | . 44 | - 59 | 58 |
| Tuberculosis | 399 | 587 | 590 | 18.892 | 19.668 | 20,668 |
| Tularamia | 7 | 1 | 3 | 138 | 78 | 95 |
| Typhoid fever | 8 | 19 | 16 | 303 | 348 | 263 |
| Typhus fever, tick-borne (Rky. Mt spotted) | 50 | 44 | 36 | 810 | 819 | 681 |
| Venereal diseases: <br> Gonorrhea: Civilian | 15,148 | 21.560 | 21.560 | 654,442 | 661.405 | 661,405 |
| Military | 528 | 631 | . 631 | 18,333 | 17,384 | 18,178 |
| Syphilis, primary \& sacondary: Civilian | 320 | 321 | 373 | 16.011 | 13.942 | 13,942 |
| Military | 13 | 9 | 6 | 206 | 196 | 196 |
| Rabies in animals | 78 | 63 | 63 | 3,301 | 2,122 | 1,990 |

TABLE II. Notifiable diseases of low frequency, United States

|  | CUM. 1978 |  | CUM. 1978 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Poliomyelitis: Total | 23 |
| Botulism | 15 | Paralytic | 20 |
| Conganital rubella syndrome $\dagger$ | 35 | Ptittacosis (Mo. 1) | 74 |
| Leprosy (Mass. 1) | 112 | Rabies in man | 2 |
| Leptospirosis | 29 | Trichinosis (N.J. 4) | 109 |
| Plague | 9 | Typhus fever, flea-borne (endemic, murine) (Tex. 1) | 34 |

[^0]TABLE III. Cases of specified notifiable diseases, United States, weeks ending September 1, 1979, and September 2, 1978 (35th woek)

| REPORTING AREA | ASEPTIC MENINGITIS | 明U. CEL. LOSIS | CHICKEN. POX | DIPHTHERIA |  | ENCEPHALITIS |  |  | HEPATITIS (VIRAL), BY TYPE |  |  | MALARIA |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Primary |  | Pastilt factious | - | A | Unspecified |  |  |
|  | 1979 | 1978 | 197日 | 1979 | $\begin{aligned} & \text { CUM. } \\ & 1979 \end{aligned}$ | 1979 | 1978* | 1979 | 1878 | 1979 | 1979 | 1978 | $\begin{aligned} & \hline \text { CUM } \\ & \text { 1979 } \\ & \hline \end{aligned}$ |
| UNITED STATES | $374$ | 4 | 229 | - | 62 | 44 | 74 | 1 | 223 | 468 | 175 | 10 | 434 |
| NEW ENGLAND | 39 | - | 28 | - | - | 3 | - | - | $\begin{array}{r} 22 \\ 1 \end{array}$ | 13 | 8 | 1 | 26 |
| Maine | 2 |  | 2 | - |  | 2 |  | - |  |  | $\underline{-}$ | $\underline{-}$ |  |
| N.H. $\dagger$ | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| $\mathrm{V}_{\mathrm{t}}$ | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mass. | 21 |  | 9 | - | - | 2 | - | - | 7 | 1 | 7 | - | 7 |
| R.I. | 5 | - | 3 | - | - | - | - | _ | 2 | 3 | - | - | 6 |
| Conn. | 4 | - | 14 | - | - | 1 |  | - | 12 | 8 | 1 | 1 | 12 |
| MID. ATLANTIC | 87 | - | 35 | - | - | 7 | 15 | - | 39 | 34 | 22 | 2 | 63 |
| Upstata N.Y. | 40 | - | 20 | - | - | 3 | 4 | - | 8 | 11 | 9 | - | 13 |
| N.Y. City | 5 | - | 14 | - | - | 1 | - | - | 14 | 8 | 1 | 2 | 30 |
| $\begin{aligned} & \text { N.J.t } \\ & \mathrm{Pa}_{\mathrm{g}, \mathrm{t}} \end{aligned}$ | 33 | - | NN | - | - | - | 2 | - | 17 | 15 | 12 | - | 8 |
|  | 9 |  |  |  |  | 3 | 9 |  | NA | NA | NA | - | 12 |
| EN. CENTRAL | 61 | - | 61 | - | 2 | 9 | 34 | 1 | 38 | 82 | 9 | 3 | 36 |
| Ohio 1 | - | - | 3 | - | - | 1 | 8 | 1 | 12 | 29 | - | - | 7 |
| Ind. | 10 | - | 14 | - | 1 | 3 | 4 | - | 1 | 5 | 5 | - | 1 |
| III. | 9 | - | 12 | - | - | 4 | 8 | - | 7 | 16 | 1 | 3 | 17 |
| Wich. | 37 | - | 725 | - | 1 | $\stackrel{1}{-}$ | 3 | - | 2 | 1 | $\underline{-}$ | - | 2 |
|  | 5 |  |  |  |  |  | 11 |  |  |  |  | - |  |
| WN. central | 19 | 1 | 7 | - | 1 | 4 | 4 | - | 15 | 25 | 6 | 1 | 15 |
| Minn. | - | - | - | - | - | $\square$ | 4 | - | 3 | 9 | $-$ | 1 | 5 |
| Mown | 5 | 1 | 2 | - | $\bar{\square}$ | 3 | - | - | 11 | 2 | 1 | - | 2 |
| N. Dak. | 2 | - | - | - | 1 | - | - | - | 11 | 4 | 4 | - | 3 |
| S Dik. | - | - | - | - | - | - | - | - | - | 8 | - | - | 1 |
| Nebr. | 2 | - | 5 | - | - | 1 | - | - | 1 | - | 1 | - | 2 |
| Kams. | 10 | - |  | - | - | - | - | - | - | 2 | - | - | 2 |
| S. ATLA <br> Dol. <br> Md . <br> D.c. <br> $V_{a}$ <br> W. Va <br> N.c. <br> S.C. <br> GA <br> Fla | 54 | 1 | 48 | - | 1 | 6 | 7 | - | 58 | 68 | 29 | 1 | 53 |
|  | 13 | - |  |  |  |  | 1 | - | 6 | 4 | 6 | 8 |  |
|  | 13 | - | 2 | - | - | 1 |  | - | 4 | 1 | 1 | 5 |  |
|  | 16 | - | - | - | 1 | 2 | 3 | - | 11 | 7 | 6 | 118 |  |
|  | 2 |  |  | - | - | 3 | 3 | - | 112 | 1 | - | 2 |  |
|  | 16 | - | NN |  | - | - | - | - | 7 | 6 | 7 | - 4 |  |
|  | 16 | N |  | - |  |  |  | - | 2 | 1 | - | - | 1 |
|  | - |  |  | - | - | - | $\overline{-}$ | - | 11 | 21 | $\bar{\square}$ | - | 2 |
|  | 4 | 1 | 20 |  |  |  |  |  | 15 | 27 | 7 | 12 |  |
| E. CENTRAL Ky. | 14 | - | 18 | - | - | 4 | 6 | - | 14 | 21 | 7 | - | d |
|  | 3 | - | 17 | - | - | 4 | 4 | - | 14 | 21 | 1 | - | - |
| Alsm.t | 8 | - | NN | - | - | 3 | - | - | 7 | 14 | 4 | - | - |
| Masin | 3 | - | - | - | - | 1 | 1 | - | 5 | 3 | 3 | - | 3 |
|  | - | - | 1 | - | - | - | 1 | - | 2 | 4 | - | - | 5 |
| W.S. CENTRAL Ark. | 63 | 1 | 19 | - | - | 3 | 6 | - | 17 | 95 | 35 | 1 | 26 |
| Le | - | - | NM | - | - | 3 | - | - | 2 | 5 | 4 | - | - |
| Ofle 1 | 2 | - | NN | - | - | 3 | 1 | - | 2 | 33 2 | 9 | - | 2 |
| Tex. | 54 | 1 | 19 | - | - | - | 1 | - | 14 | 55 | 20 | 1 | 21 |
| MOUNTAIN | 14 | 1 | 9 | - | 1 | 3 | - | - | 11 | 97 | 55 | - | 12 |
| Mont. $\dagger$ | 14 | 1 | 6 | - | 1 | 1 | - | - | 12 | 1 | 5 | - | 1 |
| Wyo. | - | - | - | - | - | - | - | - | - | 5 | - | - | - |
| Colo. | 14 | - | 3 | - | - | 1 | - | - | 5 | 1 | $\bar{\square}$ | - | 1 |
| N. Max, $\dagger$ | 14 | - | 3 | - | - | 1 | - | - | 5 | 16 | 2 | - | 5 |
| Ariz. | - | - | NN | - | 1 | - | - | - | 1 | 68 | $4{ }^{-1}$ | - | 4 |
| Utan | - | - | NN | - | 1 | - | - | - | 1 | 68 | 8 | - | 4 |
| Hev. | - | - | - | - | - | 1 | - | - | 2 | 1 | 1 | - | - |
| PACIFIC Wanh | 23 | - | 4 | - | 57 | 5 | 2 | - | 9 | 33 | 4 | 1 | 195 |
| Oreg. | 13 | - | - | - | 55 | 4 | 1 | - | 4 | 15 | 2 | 1 | 10 |
| Calif. | 4 | - | 1 | - | - | - | - | - | 3 | 7 | 2 | - | 9 |
| Alaska | NA | NA | NA | NA | 2 | NA | - | - | NA | Na | NA | NA | 174 |
| $\mathrm{Hawali}^{\text {a }}$ | 6 | - | 2 | - | - | 1 | 1 | - | - | 4 | - | - | - |
|  | - | - | 1 | - | - | - | - | - | 2 | 7 | - | - | 2 |
| Guam | NA | NA | NA | NA | - | NA | - | - | NA | NA | NA | NA | - |
| V.I. | NA | NA | NA | Na | - | NA | 1 | - | NA | NA | NA | NA | 1 |
|  | NA | NA | NA | NA | - | NA | - | - | NA | NA | NA | Na | - |
| Pre. Trust Tarr. $\dagger$ | Na | NA | NA | NA | - | NA | - | - | NA | NA | NA | NA | - |

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending September 1, 1979, and September 2, 1978 (35th week)

| beporting area | Meastes (Rubeola |  |  | MENINGOCOCCAL INFECTIONS tatal |  |  | MUMPS |  | PERTUSSIS | fubella |  | tetanus <br> CuM. <br> 1979 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979 | $\begin{aligned} & \text { Cum } \\ & 1979 \end{aligned}$ | $\underset{1978^{\circ}}{\text { Cum }}$ | 1979 | $\begin{aligned} & \text { CUM } \\ & \text { 1979 } \end{aligned}$ | $\begin{aligned} & \text { CUM. } \\ & 1978^{\circ} \end{aligned}$ | 1979 | cum. $1979$ | 1979 | 1979 | Cum. <br> 1979 |  |
| UNITED STATES | 44 | 12.044 | 23,583 | 24 | 1,893 | 1,768 | 60 | 11.075 | 26 | 31 | 10,594 | 44 |
| NEW ENGLAND | - | 286 | 1,957 | - | 93 | 97 | 5 | 391 | - | 3 | 1,435 | 4 |
| Maine | - | 17 | 1,314 | - | 6 | 5 | 1 | 133 | - | - | 61 | - |
| N.H. | - | 32 | 45 | - | 9 | 7 | - | 4 | - | - | 124 | - |
| Vt. ${ }^{\text {d }}$ | - | 118 | 25 | - | 6 | 2 | - | 8 | - | - | 397 | - |
| Mass. | - | 13 | 241 | - | 27 | 42 | 2 | 38 | - | 2 | 505 | 3 |
| R.I. | - | 102 | 8 | - | 7 | 15 | 2 | 31 | - | 1 | 93 | - |
| Conn. | - | 4 | 324 | - | 38 | 26 | - | 177 | - | - | 255 | 1 |
| MID. ATLANTIC | 7 | 1,497 | 2,155 | 4 | 286 | 282 | 3 | 1.080 | 3 | 9 | 1,890 | 8 |
| Upstate N.Y. | 1 | 651 | 1.384 | 2 | 98 | 91 | 1 | 157 | 2 | 8 | 1.049 | 2 |
| N.Y. City | 4 | 742 | 342 | - | 70 | 68 | 2 | 119 | 1 | - | 256 | 4 |
| N.J. $\dagger$ | 2 | 59 | 74 | - | 70 | 53 | - | 527 | - | 1 | 322 | 1 |
| Pa . | - | 45 | 355 | 2 | 48 | 70 | - | 277 | - | - | 263 | 1 |
| E.N. CENTRAL | 15 | 3. 129 | 10.631 | 4 | 189 | 256 | 27 | 4,827 | 4 | 10 | 2.459 | 3 |
| Ohio | - | 262 | 474 | 3 | 72 | 62 | 2 | 1,744 | - | - | 135 | 2 |
| Ind. $\dagger$ | 1 | 202 | 187 | 1 | 40 | 37 | - | 271 | 1 | 1 | 718 | - |
| III. | 1 | 1,388 | 1,064 | - | 9 | 77 | 17 | 861 | - | 1 | 176 | - |
| Mich. | 5 | 820 | 7,448 | - | 52 | 49 | - | 882 | 3 | 3 | 1,189 | 1 |
| Wis. ${ }^{\text {t }}$ | 8 | 457 | 1,458 | - | 16 | 11 | 8 | 1,069 | - | 5 | 241 | - |
| W.N. CENTRAL | 3 | 1,728 | 382 | - | 51 | 60 | 1 | 643 | 5 | 4 | 439 | 2 |
| Minn. | 1 | 1.209 | 36 | - | 10 | 14 | - | 10 | - | 1 | 38 | - |
| Jowa | - | 16 | 55 | - | 9 | 9 | 1 | 228 | - | - | 52 | - |
| Mo. | 2 | 420 | 9 | - | 24 | 23 | - | 109 | 1 | 2 | 50 | 1 |
| N. Dak. | - | 20 | 191 | - | 1 | 3 | - | 2 | - | - | 8 | 1 |
| S. Dak. | - | 2 | - | - | 2 | 2 | - | 5 | - | - | 5 | - |
| Nebr. | - | - | 5 | - | - | - | - | 7 | - | - | 200 | - |
| Kans. | - | 61 | 86 | - | 5 | 9 | - | 232 | 4 | 1 | 86 | - |
| S. ATLANTIC | 7 | 1,800 | 4,971 | 7 | 475 | 416 | 8 | 552 | 8 | - | 1,214 | 8 |
| Del. | - | 1 | 6 | - | 3 | 2 | 2 | 39 | - | - | 4 | - |
| Md. | - | 15 | 52 | 1 | 43 | 28 | 3 | 152 | 1 | - | 28 | - |
| D.C. | - | 1 | 48 | - | 2 | 1 | - | 1 | - | - | 1 | - |
| Va.t | 1 | 267 | 2.819 | 1 | 69 | 53 | 1 | 82 | - | - | 200 | 1 |
| W. Va. | 1 | 53 | 1.033 | - | 8 | 9 | 1 | 97 | - | - | 106 | - |
| N.C. | 1 | 111 | 116 | 3 | 75 | 88 | - | 67 | 2 | - | 527 | 3 |
| S.C. | - | 151 | 197 | - | 57 | 23 | - | 3 | - | - | 61 | - |
| Ga. | - | 435 | 17 | - | 68 | 47 | - | 3 | 5 | - | 11 | - |
| Fla. | 4 | 766 | 683 | 2 | 150 | 165 | 1 | 108 | - | - | 276 | 4 |
| E.S. CENTRAL | 1 | 200 | 1,387 | 3 | 145 | 137 | 3 | 1,321 | 1 | 2 | 294 | 7 |
| Ky. | - | 37 | 118 | - | 29 | 28 | 2 | 1,387 | - | - | 68 | - |
| Tenn. | - | 51 | 934 | 2 | 40 | 32 | 1 | 97 | 1 | 1 | 92 | - |
| Ala. | 1 | 84 | 101 | - | 37 | 43 | - | 22 | - | 1 | 43 | 5 |
| Miss. $\dagger$ |  | 28 | 234 | 1 | 39 | 34 | - | 115 | - | - | 91 | 2 |
| W.S. CENTRAL | 5 | 894 | 1,034 | 1 | 306 | 265 | 4 | 1,332 | 3 | 2 | 227 | 11 |
| Ark. | - | 9 | 14 | - | 26 | 21 | - | 480 | - | - | 6 | 2 |
| La. | - | 245 | 341 | - | 115 | 109 | - | 36 | - | - | 26 | 2 |
| Okla. | - | 22 | 12 | - | 25 | 16 | - | - | - | - | 22 | - |
| Tex. | 5 | 618 | 667 | 1 | 140 | 119 | 4 | 816 | 3 | 2 | 173 | 7 |
| MOUNTAIN | 3 | 309 | 250 | 3 | 75 | 38 | 4 | 258 | 1 | - | 504 | - |
| Mont | - | 57 | 106 | - | 7 | 3 | - | 10 | - | - | 68 | - |
| Idaho | 3 | 21 | 1 | 1 | 6 | 3 | - | 8 | - | - | 199 | - |
| Wyo. |  | 36 |  |  | 1 | - | - | - | - | - | - | - |
| Colo. | - | 60 | 30 | - | 5 | 3 | 1 | 72 | 1 | - | 64 | - |
| N. Mex. $\dagger$ | - | 35 | - | - | 4 | 7 | - | 12 | - | - | 11 | - |
| Ariz. | - | 72 | 50 | 2 | 33 | 13 | 2 | 51 | - | - | 126 | - |
| Utah | - | 17 | 44 | - | 8 | 5 | 1 | 94 | - | - | 34 | - |
| Nov. | - | 11 | 19 | - | 11 | 4 | - | 11 | - | - | 2 | - |
| PACIFIC | 3 | 2,201 | 816 | 2 | 273 | 237 | 5 | 671 | 1 | 1 | 2,132 | 1 |
| Wash. | 2 | 1,126 | 157 | 1 | 45 | 39 | - | 186 | - | - | 172 | - |
| Oreg. | - | 58 | 145 | - | 22 | 27 | 2 | 74 | 1 | - | 91 | - |
| Calif. | NA | 935 | 507 | - | 191 | 162 | NA | 307 | NA | NA | 1.845 | 1 |
| Alaska | - | 17 | - | - | 5 | 6 | - | 9 | - | - | 1.8 | - |
| Hawaii | 1 | 65 | 7 | 1 | 10 | 3 | 3 | 95 | - | 1 | 21 | - |
| Guam | NA | 3 | 25 | $\cdots$ | 1 | - | NA | 8 | Na | NA | 4 |  |
| P.R. | NA | 324 | 236 | - | 3 | 6 | NA | 527 | NA | NA | 33 | 6 |
| V.I. | NA | 4 | 6 | - | 3 | 1 | NA | 15 | NA | NA | - | - |
| Pac. Trust Terr. $\dagger$ | NA | 6 | 587 | - | 1 | 2 | NA | 26 | NA | NA | 1 | $\cdots$ |

NA: Not available.
-Delayed reports receivad for 1978 are not shown below but are used to update last year's weekly and cumulative totals.
$\dagger$ The following delayed reports will be reflected in next week's cumulative totals: Measles: Ind. -1 , Wis. -1 , Miss. -4, N.Mex. +4, Pac. Tr. Terr. +1; Men. in N.J. -1, Va. -1 : Mumps: Pac.Tr.Terr. +2; Pertussis: N.Mex. -1; Rubella: Vt. -1.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending September 1, 1979, and September 2, 1978 (35th week)

| REPORTING AREA | TUBERCULOSIS |  | TULAREMIA <br> CUM. <br> 1979 | TYPHOID FEVER |  | TYPHUS EEVFR (Tick-borne) (RMSF) |  | Venereal diseases (Civilian) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | GONORRHEA |  |  | SYPhilis (Pri. \& Sec) |  |
|  | 1979 | CUM. 1979 |  | 1979 | $\begin{aligned} & \text { CUM. } \\ & 1979 \end{aligned}$ |  |  | 1979 | CUM. <br> 1979 | 1979 | $\begin{aligned} & \text { CUM. } \\ & \text { 1979 } \end{aligned}$ | $\begin{aligned} & \text { CUM. } \\ & 1978^{\circ} \end{aligned}$ | 1979 |  | $\begin{aligned} & \text { CUM. } \\ & 1979 \end{aligned}$ | CUM. <br> 1978* |
| UNITEDSTATES $39918,892 \quad 138 \quad 8 \quad 303 \quad 50 \quad 81015,148 \quad 654.442 \quad 661,405 \quad 32016,011 \quad 13.9423,301$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NEW ENGLAND <br> Маіле <br> N.H. 4 <br> $\mathrm{V} /$ <br> Mass. <br> R.I. <br> Conn. | 8 | 506 |  | 3 | - | 18 | - | 6 | 520 | 16.527 | 17.143 | 8 | 317 | 391 | 35 |
|  | - | 38 | - | - | 1 | - | - | 28 | 1,150 | 1.322 |  | 7 | 7 | 22 |
|  | 1 | 9 | - | - | - | - | - | 25 | 617 | 803 |  | 18 | 5 | 3 |
|  | 2 | 24 | - | - | - | - | - | 12 | 387 | 400 |  | 1 | 3 |  |
|  | 2 | 270 | 3 | - | 11 | - | 3 | 221 | 6,546 | 7,513 | 7 | 178 | 239 | 9 |
|  | 3 | 43 | - | - | 2 | - | - | 28 | 1.355 | 1.234 |  | 11 | 16 |  |
|  | - | 122 | - | - | 4 | - | 3 | 206 | 6.472 | 5.871 | 1 | 102 | 121 | 1 |
| MID. ATLANTIC <br> Upstate N.Y. <br> N.Y. City <br> N.J. <br> Pa . | 77 | 2,979 | 1 | 3 | 50 | 4 | 34 | 1.109 | 70,604 | 7.101 | 19 | 2,406 | 1.851 | 45 |
|  | 8 | . 551 | 1 | 1 | 9 | 2 | 22 | 319 | 11.778 | 11.849 | 9 | 179 | 135 | 32 |
|  | 32 | 1.098 | - | 1 | 23 | - | 1 | NA | 27.233 | 27,248 | NA | 1,621 | 1.294 | - |
|  | 17 | 542 | - | 1 | 12 | - | 5 | 250 | 12.839 | 13. 148 | 6 | 323 | 215 | 5 |
|  | 20 | 788 | - |  | 6 | 2 | 6 | 540 | 18,754 | 18.856 | 4 | 283 | 207 | 8 |
| E.N. CENTRAL Ohio $\uparrow$ Ind. III. Mich. Wis. $\dagger$ | 87 | 2,778 | - | - | 23 | 2 | 49 | 2.605 | 101,419 | 99.071 | 30 | 2,104 | 1,516 | 283 |
|  | 17 | 495 | - | - | 3 | - | 14 | 484 | 28,112 | 25.756 | N- | 395 | 291 | 26 |
|  | 17 | 358 | - | - | - | - | 2 | NA | 8,637 | 9,887 | Na | 154 | 94 | 59 |
|  | 25 | 1. 104 | - | - | 7 | 2 | 29 | 1.066 | 31,354 | 31,341 | 23 | 1,186 | 938 | 131 |
|  | 27 | 694 | - |  | 10 | - | 3 | 758 | 24,024 | 23,136 | 5 | 306 | 146 | 10 |
|  | 1 | 127 | - | - | 3 | - | 1 | 297 | 9,292 | 8,951 | 2 | 63 | 47 | 57 |
| W.N. CENTRAL <br> Minn. <br> lowa <br> Mo. <br> N. Dak. <br> S. Dak. <br> Nebr. <br> Kans. | 26 | 645 | 19 | - | 10 | 3 | 41 | 1.179 | 32,321 | 33,233 | 3 | 215 | 306 | 660 |
|  | - | 102 | - | - | 2 | - | 2 | 235 | 5,464 | 5,693 | 2 | 57 | 130 | 120 |
|  | 2 | 52 | - | - | 2 |  | 13 | 170 | 3,963 | 3.684 | - | 27 | 28 | 128 |
|  | 13 | 347 | 16 | - | 4 | 2 | 17 | 571 | 13,959 | 14,535 | 1 | 100 | 84 | 206 |
|  | - | 14 | - | - | - | - | - | 14 | 540 | 614 | - | 2 | 2 | 49 |
|  | $\checkmark$ | 38 | 2 | - | - | - | - | 31 | 1.090 | 1.171 | - | 1 | 2 | 66 |
|  | 5 | 11 | 1 | - | 1 | - | 1 | 102 | 2.269 | 2.451 | - | 2 | 11 | - |
|  | 6 | 81 | - | - | 1 | 1 | 8 | 56 | 5.036 | 5,120 | - | 26 | 49 | 91 |
| S. ATLANTIC <br> Del. <br> Md. <br> D.C. <br> Va . <br> W. Va, <br> N.C. $\dagger$ <br> S.C. $t$ <br> Ga. <br> Fla. $\dagger$ | 83 | 49326 | 8 | 2 | 35 | 33 | 471 | 4.023 | 158,893 | 161.930 | 78 | 3,844 | 3,707 | 465 |
|  | - | 34 | - | - | - | - | 3 | 67 | 2,624 | 2,260 | 1 | 21 | 6 | - |
|  | 13 | 567 | - | - | 8 | 4 | 52 | 588 | 19.584 | 20.432 | 6 | 255 | 277 | 9 |
|  | - | 216 | 2 | - | 1 | - | 2 | 434 | 10,437 | 10.900 | 8 | 302 | 287 | - |
|  | 15 | 497 | 1 | 1 | 5 | - | 76 | 616 | 15,425 | 15,540 | 9 | 326 | 313 | 13 |
|  | 3 | 161 | - |  | 3 | 1 | 9 | 73 | 2.202 | 2,244 | - | 41 | 13 | - |
|  | 25 | 691 | - | 1 | 1 | 16 | 182 | 807 | 22.937 | 23,159 | 3 | 316 | 378 | 9 |
|  | 10 | 321 | 1 | - | 3 | 4 | 68 | 383 | 14.905 | 15,851 | 6 | 201 | 188 | 148 |
|  | 17 | 689 | 4 | - | - | 7 | 75 | 1.055 | 30.415 | 31.363 | 45 | 1.074 | + 915 | 245 |
|  | NA | 1,150 | - | - | 14 | 1 | 4 | NA | 40.364 | 45.181 | NA | 1,308 | 1.330 | 41 |
| E.S. CENTRAL <br> Ky. 1 <br> Tenn.t <br> Ala. <br> Miss. | 34 | 1.758 | 14 | 1 | 15 | 3 | 114 | 1.346 | 56.249 | 57,038 | 33 | 1,060 | 717 | 234 |
|  | 9 | 454 | 2 | $\underline{-}$ | 5 | - | 18 | 321 | 7.439 | 7.237 | 9 | 114 | 95 | 93 |
|  | 14 | 509 | 12 | - | 2 | 2 | 69 | 506 | 20.335 | 21.132 | 10 | 443 | 239 | 84 |
|  | 7 | 405 | - | 1 | 6 | 1 | 17 | 284 | 16,510 | 16.408 | 6 | 200 | 124 | 56 |
|  | 4 | 390 | - | - | 2 | - | 10 | 235 | 11,965 | 12,261 | 8 | 303 | 259 | , |
| W.S. CENTRAL <br> Ark. <br> La. <br> Okla. $\dagger$ <br> Tex. | 58 | 2,301 | 57 | - | 44 | 4 | 77 | 2,572 | 65,039 | 89.885 | 127 | 2,943 | 2,215 | 1,280 |
|  | - | 200 | 36 |  | 1 |  | 16 | 199 | 6,720 | 6,484 | 4 | 97 | 47 | 258 |
|  | 5 | 466 | 4 | - | 4 | $\bar{\square}$ | 1 | 360 | 14,997 | 14,632 | 32 | 708 | 469 | 20 |
|  | 6 | 245 | 12 | - | - | 4 | 47 | 326 | 8,156 | 8,479 | 6 | 63 | 66 | 198 |
|  | 47 | 1,390 | 5 | - | 39 | - | 13 | 1.687 | 55,166 | 60,290 | 85 | 2,075 | 1,633 | 804 |
| MOUNTA <br> Mont $\dagger$ <br> Idahot <br> Wyo. <br> Colo. <br> N. Max. $t$ <br> Ariz. <br> Utah <br> Nev. | 8 | 570 | 32 | - | 21 | 1 | 14 | 1,292 | 26,356 | 25,072 | 19 | 314 | 280 | 78 |
|  | 1 | 27 | 7 | - | - | 1 | 4 | 34 | 1,233 | 1,417 | - | 6 | 7 | 8 |
|  | - | 10 | 1 | - | 1 | $-$ | 2 | 52 | 1,166 | 986 | 1 | 21 | 9 | 3 |
|  | 2 | 4 | - | - | 1 | - | $\bar{\square}$ | 12 | +694 | $\begin{array}{r}582 \\ \hline 972\end{array}$ | - | 5 4 | 8 | 11 |
|  | 2 | 86 | 12 | - | 12 |  | 4 | 396 | 6,955 | 6,972 | 1 | 64 | 81 | 21 |
|  | 2 | 98 | 2 | - | 2 | - | 1 | 124 | 3,301 | 3. 569 | 3 | 62 | 65 | 27 |
|  | 2 | 276 | 8 | - | 3 | - | - | 526 | 7,473 | 6.539 | 10 | 94 | 67 | 17 |
|  | 3 | 24 | 8 | - | 2 | - | 3 | 44 | 1.351 | 1,354 | 4 | 3 | 11 | 2 |
|  | 3 | 45 | 2 | - | 2 | - | 3 | 104 | 4.183 | 3,653 | 4 | 59 | 32 |  |
| Pacific <br> Wash. $t$ <br> Oreg. <br> Calif. <br> Alaska <br> Hawaii | 18 | 3,029 | 4 | 2 | 87 | = | 4 | 502 | 107.034 | 106,932 | ${ }^{3}$ | 2.808 | 2,959 | 221 |
|  | 10 | 183 | 3 | 2 | 4 | - | - | 193 | 9.351 | 8,477 | NA | 133 | 151 | - |
|  | 4 | 131 | - | , | 1 | - | - | 183 | 6.982 | 7.362 | 1 | 115 | 103 | 9 |
|  | NA | 2,454 | 1 | NA | 74 | NA | 4 | NA | 85.302 | 85,839 | NA | 2,471 | 2,669 | 210 |
|  | - | 52 | - | - | 1 | - | - | 54 | 3.398 | 3.318 | 2 | 21 | 8 | 2 |
|  | 4 | 209 | - | - | 7 | - | - | 72 | 2,001 | 1.936 | - | 68 | 28 |  |
| Guam <br> $P_{\text {R }}$. <br> V.I. <br> Pac. Trust Tarr. $\dagger$ <br> NA: |  |  |  |  |  |  |  |  | - |  |  |  |  |  |
|  | NA | 42 | - | NA | - | Na | - | NA | 62 | 85 | NA | - | - |  |
|  | NA | 215 | _ | NA | 4 | NA | _ | NA | 1,342 | 1.535 | NA | 322 | 329 | 15 |
|  | NA | 3 | - | Na | 1 | NA | - | NA | 115 | 142 | NA | 6 | 12 |  |
|  | NA | 18 | - | NA |  | NA | - | NA | 242 | 330 | NA | 1 | 12 | - |

A: Not available.
Delayed reports received for 1978 are not shown below but are used to update last year's week|y and cumulative totals.
The following delayed reports will be reflected in next weak's cumulative totals: TB: N.H. +1, N.C. -3, KY. -1, Tenn. -10 , Mont. +1, N.Mex. +2 , Wash. -2 ,
Act.Tr.Terr. +2; Tularemia; N.Mex. +1, T.Fever: N.Mex. +2; RMSF: Ohio +3. Tenn. -2, N.Mex. -1; GC: Wis. -1 , Tenn. -2, Mont. +68, Pac.Tr.Terr. +31;
${ }^{A} n_{1}$ rabies: S.C. -3 , Fla. +1 , Okla. -1 , Idaho +1 , N.Mex. +3 ,

TABLE IV. Deaths in 121 U.S. cities,* week ending
September 1, 1979 (35th week)

| REPORTING AREA | ALL CAUSES, BY AGE (YEARS) |  |  |  |  | $\begin{aligned} & \text { P\& I=* } \\ & \text { TOTAL } \end{aligned}$ | REPORTING AREA | ALL CAUSES, by age (YEARS) |  |  |  |  | $\begin{aligned} & \text { P \& I } 1^{* *} \\ & \text { TOTAL } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ALL AGES | $>65$ | 45-64 | 25.44 | $<1$ |  |  | ALL AGES | $>65$ | 45-64 | 25-44 | $<1$ |  |
| NEW ENGLAND | 686 | 434 | 161 | 33 | 34 | 38 | S. ATLANTIC | 1,022 | 593 | 264 | 71 | 49 | 39 |
| Boston, Mass. | 173 | 99 | 45 | 14 | 7 | 8 | Atlanta, Ga | 170 | 107 | 41 | 13 | - |  |
| Bridgaport, Conn. | 47 | 29 | 15 | 2 | - | 3 | Ealtimore, Md. | 126 | 63 | 40 | 11 | 5 | - |
| Cambridgo. Mass | 34 | 25 | 7 | 2 | - | 3 | Charlotto, N.C. | 51 | 28 | 17 | 5 | - | 2 |
| Fall Riner, Mass | 27 | 25 | - | 1 | - | 1 | Jecksonville, Fla $\dagger$ t | 77 | 45 | 19 | 5 | 3 | 4 |
| Hartford, Conn. | 44 | 28 | 10 | - | 2 | 1 | Miami, Fla. | 114 | 54 | 28 | 11 | 18 | 2 |
| Lawell, Mass | 39 | 30 | 5 | 3 | - | 3 | Norfolk, Va | 58 | 29 | 16 | 4 | 5 | 5 |
| Lymn, Mass. | 15 | 11 | 4 | - | - | - | Richmond, Va | 79 | 47 | 24 | 3 | 3 | 8 |
| Now Bedford, Mass | 33 | 24 | 9 | - | - | - | Sewanneh, Ga tt | 35 | 20 | 9 | 2 | 2 | 3 |
| Naw Hiven, Conn. | 75 | 37 | 8 | 3 | 23 | - | St Patarsburg, Fla. | 96 | 85 | 9 | 1 | - | 5 |
| Providence, R.I. | 65 | 40 | 20 | 2 | 1 | 6 | Tamps, Fla | 63 | 36 | 16 | 4 | 6 | 3 |
| Somerville, Mass. | 10 | 8 | 1 | , | - | - | Washington, D.C. | 101 | 52 | 31 | 11 | 3 | 4 |
| Springfield, Mase | 51 | 28 | 19 | 2 | - | 5 | Wilmington, Del. | 52 | 27 | 14 | 1 | 4 | 1 |
| Watarbury, Conn. | 23 | 20 | 3 | - | - | 5 |  |  |  |  |  |  |  |
| Worcestar, Mess. | 50 | 30 | 15 | 3 | 1 | 3 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ES. CENTRAL <br> Birmingham, Ala | 686 116 | 395 70 | $\begin{array}{r} 164 \\ 26 \end{array}$ | $60$ | 30 3 | 25 1 |
| MID. ATLANTIC | 2,526 | 1,652 | 613 | 137 | 58 | 100 | Chattanooga, Tenn. | 1160 | 36 | 14 | 11 | 3 | 3 |
| Abany, N.Y. | 39 | 27 | 10 | 2 | - | 1 | Knaxville, Tenn. | 35 | 28 | 4 | 3 | - | 1 |
| Alentown, Pa | 19 | 8 | 11 | - | - | 1 | Louisville, Ky. | 104 | 56 | 28 | 9 | 6 | 8 |
| Buffalo, NY. | 102 | 66 | 27 | 2 | 4 | 5 | Memphis, Tenn. | 184 | 102 | 49 | 12 | 11 | 3 |
| Camaten, N.J. | 22 | 12 | 5 | 4 | 1 | 2 | Mobild, Ala | 38 | 22 | 10 | 3 | - | 2 |
| Elizabeth, N.J. | 26 | 20 | 5 | 1 | - | 1 | Montgomary, Ala | 46 | 27 | 8 | 4 | 3 | - |
| Erio, Pa.t | 24 | 17 | 6 | 1 | - | 2 | Nextrille, Tenn. | 103 | 54 | 25 | 13 | 7 | 7 |
| Jormey City, N.J. | 56 | 30 | 23 | 2 |  | 1 |  |  |  |  |  |  |  |
| Nawark, N.J. | 54 | 29 | 10 | 5 | 6 | 1 |  |  |  |  |  |  |  |
| N.Y. City, N.Y. | 1.322 | 863 | 307 | 80 | 29 | 44 | W.S. CENTRAL | 960 | 525 | 245 | 94 | 34 | 28 |
| Pratricon, N.J. | 27 | 22 | 3 | 2 | - | 2 | Austin, Tex. | 43 | 27 | 9 | 1 | 3 | 1 |
| Philadelphia, $\mathrm{Pa} \dagger$ | 412 | 264 | 106 | 21 | 12 | 25 | Baton Rouga, La | 35 | 17 | 6 | 5 | 3 | - |
| Pittshurgh, Pat | 64 | 38 | 24 | 2 | - | 1 | Corpus Christi, Tex. | 23 | 13 | 6 | 2 | - | 1 |
| Reading Pa | 30 | 28 | 2 | - | - | 1 | Dallar, Tex. | 135 | 76 | 33 | 16 | 4 | 2 |
| Rochester, NY. | 111 | 82 | 21 | 4 | 2 | 7 | El Paso, Tex. | 37 | 18 | 9 | 5 | 3 | 4 |
| Schenectady, N. Y. | 27 | 20 | 6 | 1 | - | - | Fort Worth, Tex. | 91 | 52 | 30 | 4 | 2 | 3 |
| Scrimiton, Pat | 28 | 17 | 8 | 3 | $\cdots$ | - | Houston, Tex. | 202 | 84 | 57 | 29 | 6 | 3 |
| Syracusa, N.Y. | 79 | 47 | 23 | 4 | 2 | 2 | Little Rock, Ark. | 73 | 39 | 18 | 7 | 3 | - |
| Tranton, NLJ. | 31 | 19 | 8 | 2 | 1 | - | New Orleans, La | 82 | 44 | 25 | 10 | 1 |  |
| Unica, N.Y. | 19 | 16 | 2 | - | - | 1 | San Antonio, Tex. | 111 | 64 | 29 | 6 | 7 | 3 |
| Yonkeri, N. Y. | 34 | 27 | 6 | 1 | - | 3 | Shrevaport, La Tulsh, Okliz | 38 90 | 29 | 16 | 2 | 2 | 2 9 |
| EN CENTRAL | 2,201 | 1.338 | 538 | 157 | 91 | 47 |  |  |  |  |  |  |  |
| Alkron, Ohio | 70 | 49 | 17 | 2 | 1 | - | MOUNTAIN | 510 | 287 | 122 | 41 | 28 | 14 |
| Canton, Ohio | 18 | 13 | 4 | - | 1 | - | Albuquerqua, N. Max. | 48 | 26 | 15 | 1 | 2 | 3 |
| Chicapo, III. | 541 | 313 | 139 | 45 | 20 | 12 | Colo. Springs, Colo. | 27 | 12 | 10 | 3 | - | 1 |
| Cincinnati, Ohio | 152 | 101 | 35 | 8 | 3 | 1 | Denver, Colo. | 118 | 69 | 28 | 9 | 6 | 4 |
| Cliveland, Ohio | 138 | 85 | 29 | 13 | 9 | 4 | Len Vegas, Nev. | 46 | 23 | 12 | 5 | 2 | 3 |
| Columbun, Ohio | 131 | 71 | 36 | 10 | 8 | 5 | Ogdan, Utah | 20 | 15 | 5 | 1 | 3 | - |
| Deytme Ohio | 105 | 60 | 31 | 8 | 5 | 1 | Phoenix, Ariz | 116 | 66 | 25 | 12 | 5 |  |
| Datroit, Mich. | 242 | 127 | 61 | 25 | 18 | 4 | Puablo, Colo. | 20 | 13 | 6 | - | - | 2 |
| Evansville, Ind | 42 | 25 | 13 | 3 | - | 2 | Salt Lake City, Uteh | 44 | 26 | 6 | 6 | 2 | 1 |
| Fort Wayna, Ind. | 50 | 31 | 11 | 4 | 2 | 1 | Tuczon, Ariz | 71 | 37 | 20 | 4 | 8 | - |
| Gary, Ind. | 19 | 8 | 7 | 2 | - | - |  |  |  |  |  |  |  |
| Grand Rapics, Mich. | 60 | 33 | 21 | 2 | 1 | . 1 |  |  |  |  |  |  |  |
| Indianapolis, Ind. | 152 | 84 | 40 | 16 | 6 | 1 | PACIFIC | 1.697 | 1.075 | 395 | 123 | 42 | 47 |
| Medison, Wis. | 29 | 20 | 5 | - | 1 | 7 | Barkaley. Calif. | 15 | 10 | 4 | 1 | - | 1 |
| Milwalkee, Wis | 136 | 93 | 33 | 6 | 4 | 1 | Frasno, Calif. | 44 | 28 | 7 | 4 | 1 | 1 |
| Peoria, III. | 41 | 25 | 10 | 3 | 2 | 1 | Glendala, Calif. | 26 | 20 | 3 | 2 | 1 | 2 |
| -Rockiord, III. | 35 | 27 | 4 | 1 | 3 | 1 | Honolulu, Hawaii | 60 | 28 | 18 | 6 | 5 | 2 |
| South Bend, Ind | 56 | 43 | 7 | 3 | 3 | 3 | Long Baach, Calif. | 76 | 50 | 18 | 7 | - | 3 |
| Toledo, Chio | 106 | 81 | 17 | 2 | 2 | 2 | Los Angaliss, Calif. | 625 | 400 | 129 | 50 | 17 | 16 |
| Youngriown, Ohio | 78 | 49 | 18 | 5 | 2 | - | Oaklind, Calif. | 75 | 53 | 17 | 3 | 2 | - |
|  |  |  |  |  |  |  | Preadena, Calif. | 22 | 15 | 4 | - | 2 | 1 |
|  |  |  |  |  |  |  | Portiand, Oreg. | 116 | 80 | 25 | 6 | 3 | 1 |
| W.N. CENTRAL | 720 | 465 | 165 | 28 | 27 | 19 | Sacramento, Calif. | 01 | 38 | 25 | 8 | 3 | 5 |
| Des Moines, Iowa | 52 | 38 | 10 | 1 | 1 | 1 | San Diego, Calif. | 108 | 71 | 29 | 6 | - | 1 |
| Duluth, Minn. | 24 | 18 | 5 | - | 1 | 3 | San Francisco, Calif. | 137 | 88 | 33 | 11 | 4 | 2 |
| Kınsas City, Kans | 29 | 12 | 10 | 1 | 3 | 2 | San Josa, Calif. | 109 | 65 | 32 | 8 | - | 2 |
| Kansas City, Mo. | 109 | 73 | 27 | 4 | 2 | 4 | Santtie, Wash. | 126 | 77 | 34 | 8 | 2 | 2 |
| Lincoln, Nabr. | 33 | 21 | 10 | $\bar{\square}$ | - | 3 | Spokana, Wash. | 46 | 28 | 14 | 1 | 1 | 4 |
| Minnespolis, Minn. | 105 | 77 | 15 | 2 | 8 | 2 | Tacoma, Wash. | 31 | 24 | 3 | 2 | 1 | 2 |
| Omaha, Nabr. | 85 | 48 | 24 | 4 | 5 | - |  |  |  |  |  |  |  |
| St Louis, Mo. | 157 | 104 | 35 | 9 | 3 | 1 |  |  |  |  |  |  |  |
| St Paul, Minn- | 68 | 44 | 15 | 4 | 1 | 1 | TOTAL | 11.008 | 6,764 | 2,667 | 744 | 393 | 357 |
| Wichita, Kams | 58 | 30 | 14 | 3 | 3 | 2 |  |  |  |  |  |  |  |

[^1]
## Rabies Surveillance - Venezuela

During 1978 and the first 8 weeks of 1979, canine rabies continued to be endemic in Venezuela with frequent epizootic outbreaks. In 1978, 744 cases of canine and feline rabies were reported there; in 1977, 509 had been reported.

Several major vaccination campaigns were undertaken in affected states last year. A total of 409,211 dogs were vaccinated, and 102,194 were eliminated. Eight human rabies cases were found in the epizootic areas of Maracaibo (3). Acarigua (3), Barquisimeto (1), and Puerto Cabello (1).

During the first 8 weeks of 1979, the foci of Zulia, Carabobo, Lara, Portuguesa, and Yaracuy were active. A case in a dog coming from Carabobo was diagnosed during the first week of March in Miranda state, where no cases of canine rabies had been reported for the past 3 years. There have been 2 human cases: 1 in Acarigua and the other in Puerto Cabello.

During March 1979 a vast campaign was initiated in Zulia state; the vaccination target was 100,000 dogs during March and April. A large budget and 5 additional veterinarians were made available for this operation.
Reported by the World Health Organization in the Weekly Epidemiological Record 54:218-219, 1979.

## Epidemiologic Notes and Reports

## Tuberculosis in Children and Young Adults - Tennessee

On July 20, 1978, a case of infectious pulmonary tuberculosis was diagnosed in a Tennessee resident. Contact investigation revealed 7 more cases of tuberculosis and 51 tuberculous infections (positive skin-test reactors). The 8 cases of clinical disease and 45 of the 51 tuberculous infections were in persons less than 25 years of age. Four of the 7 cases in contacts occurred in children less than 5 years old. The index patient and the 7 other patients were started on appropriate therapy. Forty-three reactors ( 3 previously known) and 12 close contacts who had negative skin tests were started on preventive therapy with izoniazid (INH).

The index patient, a 20 -year-old man, was admitted to a general hospital in west Tennessee on July 19 with a history of productive cough of 3 weeks' duration, a weight loss of 20 pounds, fever, and night sweats. Subsequent evaluation revealed infiltration with cavitation on chest $X$ ray, confirmed bacteriologically as tuberculosis. (The smear and culture were positive.) He was discharged from the hospital, under therapy, on August 2.

The patient lived in 2 households in the community and had social contacts in 7 other households. Initial investigation of the first 3 households identified 23 close contacts, $21(91 \%)$ of which were found to be infected. Five more patients with clinical tuberculosis were found among these contacts- 3 children less than 5 years of age and 2 young adults less than 21 years of age.

Investigation of contacts of the 2 new infectious young adult cases, which involved 6 households, revealed 32 more persons needing examination. All of these contacts received Mantoux tuberculin tests and chest X rays; $10(31 \%)$ were infected, and 1 more patient with clinical tuberculosis was identified-a 2 -year-old. The seventh new case, a

## Tuberculosis - Continued

22-year-old man, was reported by a physician in the community and was not known to be associated with the outbreak until he named the index patient as one of his contacts.

Because one of the infectious patients in this outbreak was attending public school, the investigation was extended to include 38 students riding a school bus, the bus driver, 72 homeroom students in a high school, 51 students attending classes in a vocational school, and the faculty from both schools. The testing of the 72 homeroom students resulted in an $8.3 \%$ reactor rate; therefore, 250 other students and faculty were tuberculin tested. A total of 405 students and faculty of the 2 schools were tuberculin tested. Seventeen tuberculin reactors were identified, and 14 were started on INH; 3 had received INH previously. Three months later the schools were retested, and 3 additional reactors were found and started on INH. One of the converters was the best friend of the patient who was attending school.
Reported by JS Levy, MD, Memphis-Shelby County Health Dept; J Larkin Jr, MD, M Woloshyn, RN, D Zaino, RN, RH Hutcheson Jr, MD, State Epidemiologist, Tennessee State Dept of Public Health; and the Tuberculosis Control Div, Bur of State Services, CDC.
Editorial Note: Tuberculosis in the pre-chemotherapy era was a common disease of children, adolescents, and young adults. Because transmission of tuberculous infection has declined markedly since chemotherapy was introduced 3 decades ago, disease in young people is much less common now. Most tuberculosis in the United States is found in older age groups and represents recrudescence of infection that occurred many years before.

This report describes an outbreak with 8 cases of tuberculosis in persons less than 25 years of age. Tuberculosis in young people is usually an indication that recent transmission has been occurring in their environment. Although the number of cases in young people is much less than that in older age groups, tuberculosis is not rare under age 25. In 1978, 70 cases ( $8.3 \%$ ) out of the 842 cases reported to CDC by Tennessee were in persons under age 25. For the whole country, 3,585 (12.6\%) cases out of a total of 28,521 were in persons under 25.

Cases of clinical disease represent only a portion of infections transmitted in an outbreak. In this instance 51 persons-more than 6 times the number of diagnosed caseswere found to have tuberculous infection. Forty-five of these were in young persons. If left untreated, some of these infected persons were destined to become clinical cases and potential sources of transmission years later. For that reason, prompt and thorough contact examination, followed by preventive treatment with INH for infected contacts, is a critical component of the containment process in tuberculosis control.

## Surveillance Summary

## Mumps - United States, 1978-1979

As of August 25 (the 34th week of 1979), 11,015 cases of mumps were reported to CDC. This represents a $16.6 \%$ decrease in mumps activity compared to the same time period in 1978.

The 1978 total of mumps cases $(16,817)$ was $21.5 \%$ less than the 1977 total $(21,436)$ (Figure 3). Thirty-three reporting areas provided age data on $6,173(36.7 \%)$ of the cases. Between 1977 and 1978, there were declines in reports of mumps for all age groups except for the $\geqslant 20$-year group, which experienced no change. Mumps continues to be a disease primarily of elementary school children (Table 2). Children 5-9 years of age accounted for $50 \%$ of the cases and had the highest incidence rate ( 49.1 cases per 100,000 population). Approximately one-fourth of the cases occurred in the 10 - to 14 -year age group, which had the next highest incidence rate ( 21.8 cases per 100,000 population).

September 7, 1979
Mumps - Continued
FIGURE 3. Reported cases of mumps, United States, 1922-1978


TABLE 2. Percent distribution of reported mumps cases and incidence rate,* by age group, United States, 1978 $\dagger$

| Age group (yrs) | Number of <br> cases | Percent <br> distribution | Incidence <br> rate |
| :--- | :---: | :---: | :---: |
| $<5$ | 774 | 12.5 | 13.8 |
| $5-9$ | 3,092 | 50.1 | 49.1 |
| 10.14 | 1,526 | 24.7 | 21.8 |
| $15-19$ | 400 | 6.5 | 5.2 |
| $20+$ | 381 | 6.2 | 0.7 |
| Total with |  |  |  |
| age known | 6,173 | 36.7 | - |
| Total with |  |  |  |
| age unknown | 10,644 | 63.3 | - |
| TOTAL | 16,817 | 100.00 | 7.8 |

> * Incidence rate $=$ cases per 100,000 population extrapolated from the age distribution of known cases from 33 reporting areas.
> tProvisional total.
(Continued on page 424)
The Morbidity and Mortality Weekly Report, circulation 87,803 , is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

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## Mumps - Continued

Children less than 5 years old made up only approximately $10 \%$ of the cases and had an incidence rate of 13.8 cases per 100,000 population, which was below that of the 10 to 14 -year-olds. In prevaccine and early postvaccine years, the less than 5 -year-olds mader up a greater proportion of the cases and had a greater risk of acquiring mumps than the 10- to 14 -year-olds (1).
Reported by Immunization Div, Bur of State Services, CDC.
Editorial Note: Reported mumps activity has declined fairly steadily since 1971, 4 years after licensure of mumps vaccine (Figure 3). This has been accompanied by decreases in the reported mumps-associated complications (aseptic meningitis, encephalitis, and death) (1).

The changes in age-specific epidemiology are undoubtedly secondary to current practices of vaccine distribution. These changes have also been observed with measles and rubella $(2,3)$.
References

1. CDC: Mumps Surveillance Report, July 1974 - December 1976. Issued 1978
2. MMWR 28:410-411, 1979
3. MMWR 28:374-375, 1979
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[^0]:    *Delayed reports received for calendar year 1978 are used to update last year's weekly and cumulative totals.
    **Medians for gonorrhea and syphilis are based on data for 1976-197日.
    tThe following delayed reports will be reflected in next week's cumulative totals: Cong. rubella syndrome: Okia. $\mathbf{- 1 ; ~ T y p h u s ~ m u r i n e : ~}$ N.Mex. -1 .

[^1]:    *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 occuprence and by the week that the death certificate was filed. Fetal deaths are not included.

    * "Pneumonia and influenza
    $\dagger$ Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current weak. Complete counts will be available in 4 to 6 weeks.
    it Data not available this week. Figures are extimates based on average percent of regional totals.

