



WEEKLY
REPORT

FEB 25 1972

For
Week Ending
February 19, 1972

Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION
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EPIDEMIOLOGIC NOTES AND REPORTS SHIPBOARD MALARIA - Puerto Rico

On Nov. 30, 1971, a 16-year-old Spanish crew member aboard a Lebanese cargo ship which was docked in Las Palmas, Canary Islands, complained of muscle aches after loading tuna. The following day, he had onset of a temperature to 104° F. and diffuse myalgia. He was seen by a local physician who diagnosed influenza and prescribed penicillin, vitamins, and an anti-catarrhal.

Over the next 4 days, as the ship was heading for Puerto Rico, the patient was restless, ate and slept poorly, and experienced deliriums and frequent high fevers; however, the myalgia and the height of his fevers gradually diminished. By December 6, the patient's condition had improved, and he appeared ready to go back to work. He was last seen at 9:00 A.M. on December 7. Two hours later, he was found lying dead on the bathroom floor.

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The body was sealed in an unrefrigerated box until the ship arrived in San Juan, Puerto Rico. At autopsy on December 11, there was no jaundice, petechiae, rash, needle marks, or signs of trauma. Other findings, however, included a large congested spleen (550 grams) and pulmonary edema. The brain was unremarkable on gross examination; microscopic examination could not be performed due to severe postmortem changes. Thick blood smears demonstrated heavy *Plasmodium falciparum* parasitemia.

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

| DISEASE | 7th WEEK ENDED | | MEDIAN 1967-1971 | CUMULATIVE, FIRST 7 WEEKS | | |
|---|----------------------|----------------------|---------------------|---------------------------|--------|---------------------|
| | February 19, 1972 | February 20, 1971 | | 1972 | 1971 | MEDIAN 1967-1971 |
| Aseptic meningitis | 47 | 46 | 28 | 253 | 404 | 197 |
| Brucellosis | — | 2 | 2 | 13 | 8 | 8 |
| Chickenpox | 3,329 | — | — | 19,057 | — | — |
| Diphtheria | 5 | 4 | 4 | 12 | 26 | 22 |
| Encephalitis, primary: | | | | | | |
| Arthropod-borne & unspecified | 26 | 24 | 21 | 116 | 145 | 146 |
| Encephalitis, post-infectious | 7 | 2 | 6 | 33 | 44 | 48 |
| Hepatitis, serum | 235 | 104 | 95 | 1,290 | 1,142 | 666 |
| Hepatitis, infectious | 1,179 | 1,123 | 983 | 7,586 | 8,691 | 5,824 |
| Malaria | 30 | 70 | 34 | 249 | 505 | 307 |
| Measles (rubeola) | 794 | 1,595 | 978 | 4,453 | 10,185 | 6,469 |
| Meningococcal infections, total | 41 | 68 | 68 | 254 | 399 | 461 |
| Civilian | 39 | 56 | 64 | 245 | 363 | 441 |
| Military | 2 | 12 | 4 | 9 | 36 | 28 |
| Mumps | 2,171 | 3,490 | — | 14,570 | 21,981 | — |
| Rubella (German measles) | 681 | 1,600 | 1,288 | 3,513 | 5,686 | 5,218 |
| Tetanus | 1 | — | 3 | 7 | 8 | 13 |
| Tuberculosis, new active | 638 | — | — | 3,633 | — | — |
| Tularemia | 2 | 1 | 1 | 14 | 17 | 12 |
| Typhoid fever | 4 | 4 | 4 | 31 | 37 | 36 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | — | — | — | 9 | 3 | 3 |
| Venereal Diseases: | | | | | | |
| Gonorrhea | 12,581 | — | — | 89,162 | — | — |
| Syphilis, primary and secondary | 467 | — | — | 2,961 | — | — |
| Rabies in animals | 70 | 71 | 69 | 436 | 515 | 500 |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|------------------------------|------|---------------------------|------|
| Anthrax: | — | Poliomyelitis, total: | 2 |
| Botulism: | — | Paralytic: | 2 |
| Congenital rubella syndrome: | 1 | Psittacosis: Ohio - 1 | 4 |
| Leprosy: Calif. - 1 | 12 | Rabies in man: Calif. - 1 | 1 |
| Leptospirosis: | 2 | Trichinosis: Calif. - 1 | 14 |
| Plague: | — | Typhus, murine: | 4 |

SHIPBOARD MALARIA – Continued

The ship had been in Ghana, West Africa, between November 3 and 17 and in Senegal, West Africa, between November 22 and 26. All but two of the 18 officials and crew had been ashore in Ghana, including the patient. On November 4, as the officers and crew received yellow fever vaccinations along with local residents, one officer noted that the same needle was used on several persons. None of the crew took malaria prophylaxis.

While in Puerto Rico, the crew members were interviewed and tested for malaria. None of them reported being ill with fever at the time of the patient's illness. Histories, thick blood smears, and serum indirect hemagglutination tests were negative for malaria. No one had needle marks, and each denied illicit drug use except for marijuana. They were started on chloroquine chemoprophylaxis. According to the crew members, the patient had not been known as an illicit

drug user and had taken only prescribed medicines at the time of his illness. Pills found in his personal belongings contained no opiates on toxicologic analysis. A pain pill containing codeine, however, was frequently passed among the crew members. A portion of codeine is metabolized to morphine in the body, and the patient's bile fluid did contain morphine. (Reported by Sydney Kaye, M.Sc., Ph.D., Marino Sorvill, M.D., Institute of Legal Medicine, University of Puerto Rico School of Medicine, Rio Piedras, Puerto Rico; the Foreign Quarantine Program, CDC; an EIP Officer, and an EIS Officer.)

Editorial Note

The heavy parasitemia of *P. falciparum* alone could have caused the patient's death, although such sudden deaths in malaria are uncommon. The presence of morphine in bile fluid is abnormal, and narcotics may have played a role in the death of the patient, whose condition was already compromised by the malaria infection.

DIPHTHERIA – Washington

Between March 31 and Nov. 23, 1971, 17 cases of diphtheria occurred in Washington (Figure 1), the largest number of cases in any year since 1957. The cases occurred in three widely separated counties: King, Yakima, and Okanogan counties (Figure 2). All but four of the patients were American Indians. Six cases occurred in preschool children, six in school-aged children attending six different schools, and five in adults (Table 1). Six patients were fully immunized, 10 had a history of less than full immunization, and in one, the immunization history was unknown (Table 2). The illnesses were more severe in persons with less than full immunization; those in fully immunized persons were mild. There were no deaths.

Toxigenic *Corynebacterium diphtheriae*, biotype gravis, was isolated from one adult male patient in King County and from one patient in Yakima County. *C. diphtheriae*, biotype intermedius, was isolated from the other 15 patients.

Figure 1
DIPHTHERIA CASES, BY MONTH OF ONSET
WASHINGTON, 1971

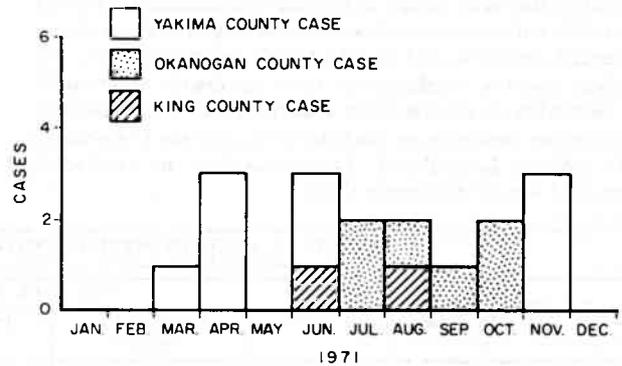


Figure 2
DIPHTHERIA CASES, BY COUNTY OF RESIDENCE – WASHINGTON, 1971

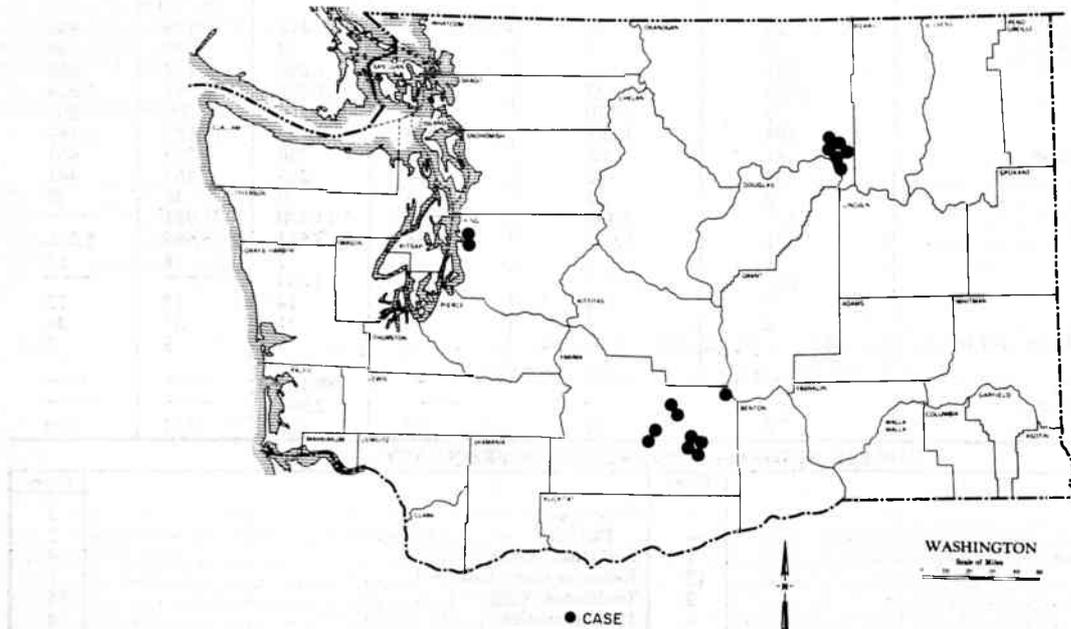


Table 1
Diphtheria Cases, by Age and Sex
Washington - 1971

| Age (Years) | Number of Cases | | |
|-------------|-----------------|--------|-------|
| | Male | Female | Total |
| 0 - 4 | 3 | 2 | 5 |
| 5 - 9 | 1 | 2 | 3 |
| 10 - 19 | 2 | 2 | 4 |
| 20 - 29 | 1 | 1 | 2 |
| 30+ | 3 | - | 3 |
| Total | 10 | 7 | 17 |

Table 2
Diphtheria Cases, by Clinical Severity and Immunization Status*
Washington - 1971

| Immunization Status | Clinical Severity | | | |
|----------------------|-------------------|----------|--------|-------|
| | Mild | Moderate | Severe | Total |
| Full | 6 | - | - | 6 |
| Inadequate or lapsed | 2 | 2 | 1 | 5 |
| None | 1 | 4 | - | 5 |
| Unknown | 0 | 1 | 0 | 1 |
| Total | 9 | 7 | 1 | 17 |

*Definitions of clinical severity and immunization status as found in Diphtheria Surveillance Report, No. 11, Dec. 31, 1971.

Investigation revealed that children who were siblings of a patient in Yakima County, where the first cases occurred, subsequently were houseguests of the initial case in Okanogan County. In addition, children in Okanogan County were subsequently houseguests of the female adult patient in King County. The male adult patient in King County could not be epidemiologically related to the other cases.

The 17 cases occurred in 16 different households. After each case was confirmed, nasal and pharyngeal swabs were obtained for culture from the household contacts. A total of 67 specimens were cultured; 21 (31%) were positive for *C. diphtheriae*. The head of the household and all unimmunized children in most families were treated with a 7-day course of oral erythromycin or penicillin. Other members of the household were treated only if the results of the initial culture

were positive. All culture-positive persons were confined to their home until two consecutive cultures obtained more than 48 hours after cessation of therapy were negative. Specimens were also obtained from 23 contacts with less extensive exposure (other relatives, neighbors, school contacts); one (4%) was positive.

On November 21, more than 9,000 persons received one injection of diphtheria toxoid at immunization clinics in Okanogan and Ferry Counties (combined population 29,800), and 600 persons received a second injection in December. In addition, more than 1,000 persons were vaccinated at the Colville Indian Health Center (Okanogan-Ferry counties) and in Okanogan County reservation schools between Oct. 1, 1971, and Feb. 1, 1972. From September 1971 to February 1972, approximately 4,400 persons were vaccinated in Yakima County (population 145,000) in schools and other public health programs. The school immunization program is continuing in that county. There have been no additional cases since November 1971.

(Reported by Leland S. Harris, M.D., Health Officer, Patricia Gates, R.N., Yakima County Health Department; Lynn Huebler, D.O., Health Officer, Dorothy Lamberton, R.N., Okanogan County Health Department; Donald Arai, M.D., physician, Colville Indian Health Center; Donald Brecht, M.D., James Mulligan, M.D., physicians, Yakima Indian Health Center; Jean Spearman, R.N., Seattle-King County Health Department; Joyce Campbell, Microbiologist, Health Services Division Laboratories, Byron J. Francis, M.D., Chief, Office of Epidemiology, Washington State Department of Social and Health Services; and an EIS Officer.)

Editorial Note

Of the 83 cases of diphtheria reported in Washington from 1959 to 1971, 43 occurred in American Indians. The average annual attack rate for this period in Indians in Washington was 11.0 cases per 100,000 population and in the non-Indian population 0.1 cases per 100,000. This attack rate in Indians is the highest of any statewide Indian population in the country. The high rate may be partially due to the fact that all throat swabs from the Indian Health Service hospitals and clinics throughout the state are submitted to the state laboratory on media conducive to the isolation of *C. diphtheriae*.

CURRENT TRENDS INFLUENZA - United States, 1972

A limited survey of state epidemiologists on Feb. 22, 1972, by the Viral Diseases Branch, Epidemiology Program, CDC, revealed a continuing decline in influenza throughout the country. There is no evidence of a second wave of infection.

Pneumonia-influenza mortality in 122 United States cities continued to show a downward trend for the country as a whole but remained above the epidemic threshold for the

seventh consecutive week. Pneumonia-influenza deaths rose slightly in four of the nine geographic regions: the West North Central, East South Central, West South Central, and Pacific. Such rises may represent the characteristic late mortality in an influenza epidemic.

(Reported by the Viral Diseases Branch, Epidemiology Program, CDC.)

EPIDEMIOLOGIC NOTES AND REPORTS BALANTIDIASIS - Truk District of Micronesia

From May to July, 1971, an outbreak of balantidiasis occurred in the Truk District of Micronesia, Trust Territory of the Pacific Islands. The entire case count of 110 was derived from laboratory isolations of *Balantidium coli* from

the stools of infected persons (Figure 3). The epidemic was multifocal in origin, and cases occurred in all age groups. There was no sex predilection. The illness was mild and lacked distinguishing clinical features.

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING FEBRUARY 19, 1972 AND FEBRUARY 20, 1971 (7th WEEK)

| AREA | ASEPTIC MENIN- GITIS | BRUCEL- LOSIS | CHICKEN- POX | DIPHTHERIA | | ENCEPHALITIS | | | HEPATITIS | | |
|----------------------------|----------------------------|------------------|-----------------|------------|----|------------------------------------|------|----------------------|-----------|------------|-------|
| | | | | | | Primary including unspec. cases | | Post In- fectious | Serum | Infectious | |
| | | | | | | 1972 | 1971 | 1972 | 1972 | 1972 | 1971 |
| UNITED STATES | 47 | - | 3,329 | 5 | 12 | 26 | 24 | 7 | 235 | 1,179 | 1,123 |
| NEW ENGLAND | 2 | - | 825 | - | - | - | - | - | 8 | 63 | 103 |
| Maine * | - | - | 75 | - | - | - | - | - | - | 5 | 10 |
| New Hampshire | - | - | 48 | - | - | - | - | - | 2 | 7 | 4 |
| Vermont | - | - | 25 | - | - | - | - | - | - | 2 | 17 |
| Massachusetts | 1 | - | 309 | - | - | - | - | - | 2 | 32 | 43 |
| Rhode Island | 1 | - | 201 | - | - | - | - | - | 3 | 6 | 12 |
| Connecticut | - | - | 167 | - | - | - | - | - | 1 | 11 | 17 |
| MIDDLE ATLANTIC | 4 | - | 235 | - | - | 3 | 2 | - | 84 | 195 | 200 |
| Upstate New York | 2 | - | 4 | - | - | 1 | - | - | 9 | 36 | 77 |
| New York City | - | - | 111 | - | - | 1 | 1 | - | 29 | 42 | 34 |
| New Jersey | 2 | - | NN | - | - | - | - | - | 40 | 89 | 55 |
| Pennsylvania * | - | - | 120 | - | - | 1 | 1 | - | 6 | 28 | 34 |
| EAST NORTH CENTRAL | 7 | - | 1,159 | - | - | 6 | 5 | - | 33 | 174 | 166 |
| Ohio | 1 | - | 422 | - | - | 1 | 3 | - | 6 | 38 | 31 |
| Indiana | - | - | 155 | - | - | - | - | - | 1 | 14 | 9 |
| Illinois | 4 | - | - | - | - | - | - | - | 10 | 49 | 33 |
| Michigan | 2 | - | 582 | - | - | 5 | 1 | - | 14 | 68 | 80 |
| Wisconsin | - | - | - | - | - | - | 1 | - | 2 | 5 | 13 |
| WEST NORTH CENTRAL | 4 | - | 240 | - | 2 | 5 | - | 1 | 2 | 33 | 47 |
| Minnesota | - | - | 33 | - | - | - | - | - | 1 | 6 | 9 |
| Iowa | - | - | 174 | - | - | - | - | - | - | 5 | 2 |
| Missouri | 4 | - | 1 | - | - | 3 | - | 1 | - | 6 | 8 |
| North Dakota | - | - | - | - | - | - | - | - | - | 1 | 3 |
| South Dakota | - | - | 3 | - | 2 | - | - | - | - | 6 | 2 |
| Nebraska | - | - | 23 | - | - | - | - | - | - | 7 | 6 |
| Kansas | - | - | 6 | - | - | 2 | - | - | 1 | 2 | 17 |
| SOUTH ATLANTIC | 8 | - | 360 | 3 | 5 | 4 | 2 | 2 | 26 | 174 | 122 |
| Delaware | - | - | 7 | - | - | - | - | - | - | - | 2 |
| Maryland | - | - | 32 | - | - | 1 | - | - | 3 | 29 | 15 |
| District of Columbia | - | - | 13 | - | - | - | - | - | 1 | 6 | - |
| Virginia | 1 | - | 15 | - | - | 1 | 1 | - | 2 | 17 | 9 |
| West Virginia | - | - | 283 | - | - | - | 1 | 1 | - | 13 | 11 |
| North Carolina | - | - | - | - | - | - | - | - | 9 | 32 | 17 |
| South Carolina | - | - | 10 | - | - | 1 | - | - | - | - | 12 |
| Georgia | - | - | - | 1 | 1 | - | - | - | - | 16 | 22 |
| Florida | 7 | - | - | 2 | 4 | 1 | - | 1 | 11 | 61 | 34 |
| EAST SOUTH CENTRAL | 6 | - | 108 | - | 1 | 3 | 9 | - | 10 | 70 | 56 |
| Kentucky | - | - | 97 | - | - | 1 | 9 | - | 2 | 28 | 19 |
| Tennessee | - | - | NN | - | - | 2 | - | - | 5 | 24 | 22 |
| Alabama | 5 | - | 2 | - | 1 | - | - | - | 3 | 13 | 10 |
| Mississippi | 1 | - | 9 | - | - | - | - | - | - | 5 | 5 |
| WEST SOUTH CENTRAL | 1 | - | 21 | 2 | 3 | 2 | 1 | - | 10 | 113 | 111 |
| Arkansas | - | - | - | - | - | - | - | - | 1 | 7 | 7 |
| Louisiana | - | - | - | - | 1 | - | - | - | 1 | 7 | 6 |
| Oklahoma * | 1 | - | 8 | - | - | 1 | 1 | - | 3 | 7 | 11 |
| Texas | - | - | 13 | 2 | 2 | 1 | - | - | 5 | 92 | 87 |
| MOUNTAIN | - | - | 108 | - | 1 | - | - | - | 3 | 65 | 68 |
| Montana | - | - | 23 | - | - | - | - | - | - | 6 | 14 |
| Idaho | - | - | - | - | - | - | - | - | - | 2 | 8 |
| Wyoming | - | - | 15 | - | - | - | - | - | - | - | - |
| Colorado | - | - | 21 | - | - | - | - | - | 1 | 14 | 10 |
| New Mexico | - | - | 6 | - | 1 | - | - | - | 1 | 16 | 16 |
| Arizona | - | - | 38 | - | - | - | - | - | - | 19 | 13 |
| Utah | - | - | 5 | - | - | - | - | - | 1 | 7 | 7 |
| Nevada | - | - | - | - | - | - | - | - | - | 1 | - |
| PACIFIC | 15 | - | 273 | - | - | 3 | 5 | 4 | 59 | 292 | 250 |
| Washington | - | - | 273 | - | - | - | - | - | 1 | 35 | 37 |
| Oregon | 1 | - | - | - | - | - | - | 2 | 1 | 23 | 36 |
| California | 10 | - | - | - | - | 3 | 5 | 2 | 57 | 223 | 171 |
| Alaska | 2 | - | - | - | - | - | - | - | - | 2 | 2 |
| Hawaii | 2 | - | - | - | - | - | - | - | - | 9 | 4 |
| Guam | - | - | 2 | - | - | - | --- | - | - | - | --- |
| Puerto Rico | - | - | 16 | - | - | - | - | - | - | 7 | 14 |
| Virgin Islands | - | - | - | - | - | - | - | - | - | - | - |

*Delayed reports: Brucellosis: Okla. 1 (1971)

Chickenpox: Me. 3

Encephalitis, primary: Okla. delete 1 (1971)

Hepatitis, serum: Pa. 5 (1971)

Hepatitis, infectious: Pa. 45 (1971), Okla. delete 1 (1971)

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**TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING FEBRUARY 19, 1972 AND FEBRUARY 20, 1971 (7th WEEK) – Continued**

| AREA | MALARIA | | MEASLES (Rubeola) | | | MENINGOCOCCAL INFECTIONS, TOTAL | | | MUMPS | | RUBELLA | |
|----------------------------|---------|-----------|-------------------|------------|--------|---------------------------------|------------|------|-------|-----------|---------|-----------|
| | 1972 | Cum. 1972 | 1972 | Cumulative | | 1972 | Cumulative | | 1972 | Cum. 1972 | 1972 | Cum. 1972 |
| | | | | 1972 | 1971 | | 1972 | 1971 | | | | |
| UNITED STATES | 30 | 249 | 794 | 4,453 | 10,185 | 41 | 254 | 399 | 2,171 | 14,570 | 681 | 3,513 |
| NEW ENGLAND | 1 | 3 | 44 | 244 | 304 | 4 | 10 | 20 | 151 | 681 | 21 | 154 |
| Maine * | — | — | — | 65 | 207 | — | 1 | 5 | — | 54 | 1 | 6 |
| New Hampshire * | — | 1 | 9 | 17 | 6 | — | — | 1 | 17 | 54 | — | 15 |
| Vermont | — | — | 1 | 17 | 2 | — | — | — | 31 | 67 | 2 | 4 |
| Massachusetts | 1 | 1 | 1 | 18 | 57 | 3 | 5 | 9 | 53 | 157 | 7 | 71 |
| Rhode Island | — | — | 8 | 41 | 22 | 1 | 4 | 1 | 13 | 134 | 6 | 18 |
| Connecticut | — | 1 | 25 | 86 | 10 | — | — | 4 | 37 | 215 | 5 | 40 |
| MIDDLE ATLANTIC | 2 | 17 | 27 | 338 | 1,073 | 8 | 25 | 54 | 86 | 670 | 31 | 160 |
| Upstate New York | — | — | 5 | 21 | 149 | 3 | 8 | 13 | NN | NN | 3 | 16 |
| New York City | — | 4 | 12 | 53 | 623 | 2 | 6 | 11 | 42 | 260 | 8 | 37 |
| New Jersey | — | 6 | 9 | 250 | 58 | 1 | 5 | 15 | 28 | 261 | 16 | 76 |
| Pennsylvania | 2 | 7 | 1 | 14 | 243 | 2 | 6 | 15 | 16 | 149 | 4 | 31 |
| EAST NORTH CENTRAL | 1 | 12 | 264 | 1,843 | 1,840 | 3 | 26 | 37 | 591 | 4,003 | 193 | 903 |
| Ohio | — | 1 | 13 | 55 | 869 | — | 11 | 15 | 181 | 716 | 30 | 76 |
| Indiana | — | — | 37 | 473 | 27 | — | 4 | 2 | 49 | 319 | 33 | 169 |
| Illinois | 1 | 4 | 127 | 562 | 511 | 1 | 2 | 7 | 79 | 746 | 17 | 146 |
| Michigan | — | 7 | 24 | 267 | 102 | 2 | 8 | 10 | 77 | 605 | 29 | 212 |
| Wisconsin | — | — | 63 | 486 | 331 | — | 1 | 3 | 205 | 1,617 | 84 | 300 |
| WEST NORTH CENTRAL | — | 9 | 69 | 197 | 497 | 2 | 18 | 37 | 245 | 2,624 | 33 | 174 |
| Minnesota | — | 1 | — | 4 | 21 | — | 1 | 7 | 49 | 263 | 3 | 14 |
| Iowa | — | 1 | 19 | 113 | 62 | — | — | 2 | 126 | 1,872 | 14 | 78 |
| Missouri | — | — | 39 | 56 | 288 | — | 2 | 8 | 5 | 90 | 3 | 37 |
| North Dakota | — | 1 | 8 | 17 | 33 | — | — | 1 | 18 | 135 | 1 | 8 |
| South Dakota | — | — | — | 2 | 52 | — | 1 | 3 | 5 | 20 | — | 6 |
| Nebraska | — | 3 | 3 | 5 | 7 | 1 | 4 | 4 | 12 | 75 | 5 | 15 |
| Kansas | — | 3 | — | — | 34 | 1 | 10 | 12 | 30 | 169 | 7 | 16 |
| SOUTH ATLANTIC | 4 | 22 | 77 | 461 | 1,223 | 6 | 55 | 48 | 166 | 1,295 | 117 | 401 |
| Delaware | — | — | 1 | 2 | 6 | — | 1 | — | — | 4 | — | 1 |
| Maryland | — | — | — | 3 | 9 | — | 4 | 7 | 4 | 70 | 2 | 11 |
| District of Columbia | — | 1 | — | — | 2 | — | 2 | 1 | 1 | 2 | — | — |
| Virginia | — | 1 | 3 | 3 | 518 | — | 12 | 4 | 20 | 133 | 6 | 21 |
| West Virginia * | — | 1 | 4 | 22 | 61 | — | 5 | 1 | 100 | 776 | 31 | 105 |
| North Carolina | 2 | 8 | — | 15 | 340 | 5 | 12 | 8 | NN | NN | — | 2 |
| South Carolina | — | 4 | 6 | 58 | 131 | — | 7 | 3 | 2 | 65 | — | 16 |
| Georgia | 1 | 3 | — | 20 | 11 | — | — | 4 | — | — | 6 | 13 |
| Florida | 1 | 4 | 63 | 338 | 145 | 1 | 12 | 20 | 39 | 245 | 72 | 232 |
| EAST SOUTH CENTRAL | 1 | 108 | 32 | 234 | 2,036 | 5 | 23 | 30 | 88 | 771 | 25 | 199 |
| Kentucky | — | 106 | 7 | 107 | 828 | — | 5 | 7 | 10 | 122 | 12 | 82 |
| Tennessee | — | — | 4 | 27 | 136 | 4 | 11 | 11 | 76 | 469 | 10 | 92 |
| Alabama | 1 | 2 | 1 | 49 | 351 | 1 | 6 | 8 | 1 | 144 | — | 14 |
| Mississippi | — | — | 20 | 51 | 721 | — | 1 | 4 | 1 | 36 | 3 | 11 |
| WEST SOUTH CENTRAL | 10 | 27 | 69 | 257 | 2,318 | 5 | 35 | 36 | 221 | 1,251 | 40 | 309 |
| Arkansas | — | 2 | 2 | 6 | 12 | — | 6 | 1 | — | 12 | 1 | 11 |
| Louisiana | — | — | — | 6 | 350 | — | 11 | 13 | 3 | 30 | — | 5 |
| Oklahoma | — | 1 | — | 2 | 292 | — | — | 4 | 12 | 67 | — | 1 |
| Texas | 10 | 24 | 67 | 243 | 1,664 | 5 | 18 | 18 | 206 | 1,142 | 39 | 292 |
| MOUNTAIN | 8 | 18 | 63 | 307 | 419 | — | 4 | 15 | 205 | 773 | 30 | 151 |
| Montana | — | — | 2 | 6 | 160 | — | — | — | 15 | 68 | 5 | 12 |
| Idaho | 1 | 1 | — | 3 | 58 | — | 2 | — | 3 | 29 | — | 3 |
| Wyoming | — | — | — | — | 5 | — | 1 | — | 12 | 66 | — | — |
| Colorado | 7 | 15 | 54 | 186 | 64 | — | — | 4 | 37 | 238 | 19 | 65 |
| New Mexico | — | 1 | 1 | 18 | 67 | — | 1 | — | 102 | 201 | — | 15 |
| Arizona | — | 1 | 5 | 50 | 48 | — | — | 6 | 35 | 161 | 6 | 51 |
| Utah | — | — | 1 | 44 | 17 | — | — | 4 | 1 | 10 | — | 5 |
| Nevada | — | — | — | — | — | — | — | 1 | — | — | — | — |
| PACIFIC | 3 | 33 | 149 | 572 | 475 | 8 | 58 | 122 | 418 | 2,502 | 191 | 1,062 |
| Washington | — | — | 24 | 145 | 126 | 1 | 6 | 5 | 223 | 837 | 25 | 202 |
| Oregon | — | 1 | 2 | 9 | 61 | — | 3 | 10 | 29 | 322 | 12 | 121 |
| California | 3 | 29 | 121 | 402 | 270 | 7 | 49 | 105 | 151 | 1,284 | 150 | 718 |
| Alaska | — | — | — | 3 | 6 | — | — | — | 12 | 38 | — | 2 |
| Hawaii | — | 3 | 2 | 13 | 12 | — | — | 2 | 3 | 21 | 4 | 19 |
| Guam | — | — | — | — | — | — | 1 | — | — | — | — | 3 |
| Puerto Rico | — | — | 3 | 47 | 32 | — | — | — | 41 | 134 | — | — |
| Virgin Islands | — | — | — | — | 2 | — | 2 | — | 16 | 63 | — | — |

*Delayed reports: Mumps: Me. 2, W. Va. 4
Rubella: N.H. 6

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING FEBRUARY 19, 1972 AND FEBRUARY 20, 1971 (7th WEEK) - Continued

| AREA | TETANUS | TB (New Active) | TULAREMIA | | TYPHOID FEVER | | TYPHUS FEVER TICK-BORNE (Rky. Mt. spotted fever) | | VENEREAL DISEASES | | RABIES IN ANIMALS | |
|----------------------------|---------|-----------------------|--------------|------|------------------|------|--|------|-------------------|---------------------------|----------------------|-----|
| | | | | | | | | | GONOR- RHEA | SYPHILIS (Pri. & Sec.) | | |
| | | | | | | | | | | | | |
| 1972 | 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | 1972 | 1972 | Cum. 1972 | |
| UNITED STATES | 1 | 638 | 2 | 14 | 4 | 31 | - | 9 | 12,581 | 467 | 70 | 436 |
| NEW ENGLAND | - | 32 | - | - | - | 2 | - | - | 363 | 13 | 3 | 17 |
| Maine | - | 2 | - | - | - | - | - | - | 12 | - | 3 | 15 |
| New Hampshire * | - | - | - | - | - | - | - | - | 7 | - | - | - |
| Vermont | - | - | - | - | - | - | - | - | 7 | - | - | 2 |
| Massachusetts | - | 23 | - | - | - | 2 | - | - | 137 | 3 | - | - |
| Rhode Island | - | 5 | - | - | - | - | - | - | 22 | - | - | - |
| Connecticut | - | 2 | - | - | - | - | - | - | 178 | 10 | - | - |
| MIDDLE ATLANTIC | - | 133 | - | - | 2 | 5 | - | 3 | 1,600 | 90 | 2 | 10 |
| Upstate New York | - | 18 | - | - | 1 | 2 | - | - | 425 | 1 | 2 | 7 |
| New York City | - | 43 | - | - | 1 | 2 | - | - | 558 | 66 | - | - |
| New Jersey | - | 31 | - | - | - | 1 | - | 1 | 276 | 18 | - | - |
| Pennsylvania | - | 41 | - | - | - | - | - | 2 | 341 | 5 | - | 3 |
| EAST NORTH CENTRAL | 1 | 93 | - | 1 | - | 1 | - | - | 1,194 | 31 | 6 | 35 |
| Ohio | - | 28 | - | 1 | - | - | - | - | 387 | 5 | 4 | 14 |
| Indiana | - | 11 | - | - | - | - | - | - | 138 | 3 | 1 | 8 |
| Illinois | - | 28 | - | - | - | - | - | - | 138 | 3 | 1 | 4 |
| Michigan | - | 21 | - | - | - | 1 | - | - | 348 | 16 | - | 1 |
| Wisconsin | - | 5 | - | - | - | - | - | - | 183 | 4 | - | 8 |
| WEST NORTH CENTRAL | - | 15 | - | 3 | - | 1 | - | 1 | 695 | 2 | 23 | 118 |
| Minnesota | - | 1 | - | - | - | - | - | - | 102 | 1 | 2 | 28 |
| Iowa | - | 1 | - | - | - | - | - | - | - | - | 5 | 31 |
| Missouri | 1 | 1 | - | 3 | - | 1 | - | - | 292 | 1 | 2 | 13 |
| North Dakota | - | - | - | - | - | - | - | - | 16 | - | 9 | 36 |
| South Dakota | - | 2 | - | - | - | - | - | - | 34 | - | - | 1 |
| Nebraska | - | 2 | - | - | - | - | - | - | 72 | - | - | - |
| Kansas | - | 8 | - | - | - | - | - | 1 | 179 | - | 5 | 9 |
| SOUTH ATLANTIC | - | 121 | - | 3 | - | 4 | - | 2 | 3,296 | 158 | 9 | 52 |
| Delaware | - | 5 | - | - | - | - | - | - | 23 | - | - | - |
| Maryland | - | 29 | - | - | - | - | - | - | 365 | 10 | 1 | 1 |
| District of Columbia | - | 1 | - | - | - | - | - | - | 1 | 26 | - | - |
| Virginia | - | 11 | - | 3 | - | 3 | - | 1 | 352 | 35 | 4 | 15 |
| West Virginia | - | 13 | - | - | - | - | - | - | 19 | - | 2 | 11 |
| North Carolina | - | 20 | - | - | - | - | - | 1 | 407 | 5 | - | - |
| South Carolina | - | - | - | - | - | - | - | - | 671 | 16 | - | - |
| Georgia | - | 21 | - | - | - | - | - | - | 627 | 33 | 1 | 16 |
| Florida | - | 21 | - | - | - | 1 | - | - | 831 | 33 | 1 | 9 |
| EAST SOUTH CENTRAL | - | 46 | - | 1 | 1 | 3 | - | - | 961 | 18 | 17 | 126 |
| Kentucky * | - | 13 | - | - | - | - | - | - | 101 | 1 | 6 | 54 |
| Tennessee | - | 19 | - | - | - | 1 | - | - | 385 | 10 | 10 | 57 |
| Alabama | - | 8 | - | 1 | - | - | - | - | 318 | 2 | 1 | 15 |
| Mississippi | - | 6 | - | - | 1 | 2 | - | - | 157 | 5 | - | - |
| WEST SOUTH CENTRAL | - | 53 | 2 | 4 | 1 | 3 | - | 3 | 1,825 | 66 | 6 | 58 |
| Arkansas | - | 11 | 2 | 4 | 1 | 3 | - | - | 75 | 5 | 1 | 15 |
| Louisiana | - | 25 | - | - | - | - | - | - | 307 | 18 | - | 6 |
| Oklahoma | - | 4 | - | - | - | - | - | 1 | 126 | 2 | 1 | 17 |
| Texas | - | 13 | - | - | - | - | - | 2 | 1,317 | 41 | 4 | 20 |
| MOUNTAIN | - | 11 | - | 1 | - | 3 | - | - | 430 | 4 | 1 | 5 |
| Montana | - | 1 | - | - | - | - | - | - | 23 | - | - | - |
| Idaho | - | 1 | - | - | - | - | - | - | 43 | - | - | - |
| Wyoming | - | - | - | - | - | - | - | - | 4 | - | - | - |
| Colorado | - | 7 | - | 1 | - | - | - | - | 167 | - | - | - |
| New Mexico | - | - | - | - | - | 1 | - | - | 13 | - | 1 | 1 |
| Arizona | - | - | - | - | - | 1 | - | - | 126 | 2 | - | 4 |
| Utah | - | 2 | - | - | - | 1 | - | - | 9 | - | - | - |
| Nevada | - | - | - | - | - | - | - | - | 45 | 2 | - | - |
| PACIFIC | - | 134 | - | 1 | - | 9 | - | - | 2,217 | 85 | 3 | 15 |
| Washington | - | 12 | - | - | - | - | - | - | 236 | 3 | - | - |
| Oregon | - | 8 | - | - | - | - | - | - | 213 | - | - | - |
| California | - | 111 | - | - | - | 7 | - | - | 1,758 | 80 | 3 | 15 |
| Alaska | - | - | - | 1 | - | - | - | - | 10 | 2 | - | - |
| Hawaii | - | 3 | - | - | - | 2 | - | - | - | - | - | - |
| Guam | - | 2 | - | - | - | - | - | - | 4 | - | - | - |
| Puerto Rico | - | - | - | - | 1 | 1 | - | - | 47 | 19 | 2 | 12 |
| Virgin Islands | - | 1 | - | - | - | - | - | - | - | - | - | - |

*Delayed reports: Typhoid fever: Ky. delete 1
Gonorrhoea: N.H. 3

Morbidity and Mortality Weekly Report

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING FEBRUARY 19, 1972

Week No.
7

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

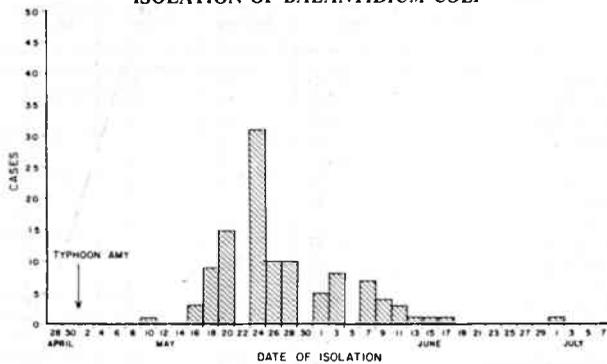
| Area | All Causes | | | Pneumonia and Influenza All Ages | Area | All Causes | | | Pneumonia and Influenza All Ages |
|---------------------------|------------|-------------------|--------------|----------------------------------|--|------------|-------------------|--------------|----------------------------------|
| | All Ages | 65 years and over | Under 1 year | | | All Ages | 65 years and over | Under 1 year | |
| NEW ENGLAND | 745 | 478 | 16 | 45 | SOUTH ATLANTIC | 1,357 | 786 | 46 | 87 |
| Boston, Mass. | 212 | 127 | 6 | 15 | Atlanta, Ga. | 126 | 67 | 6 | 13 |
| Bridgeport, Conn. | 52 | 39 | — | 2 | Baltimore, Md. | 249 | 144 | 3 | 9 |
| Cambridge, Mass. | 42 | 30 | — | 5 | Charlotte, N. C. | 51 | 26 | 3 | — |
| Fall River, Mass. | 38 | 27 | 1 | 4 | Jacksonville, Fla. | 138 | 76 | 4 | 6 |
| Hartford, Conn. | 63 | 41 | 1 | 1 | Miami, Fla. | 137 | 100 | 4 | 5 |
| Lowell, Mass. | 34 | 19 | — | 1 | Norfolk, Va. | 55 | 24 | 3 | 10 |
| Lynn, Mass. | 28 | 18 | — | 3 | Richmond, Va. | 115 | 63 | 11 | 8 |
| New Bedford, Mass. | 24 | 22 | — | 1 | Savannah, Ga. | 31 | 14 | 2 | 5 |
| New Haven, Conn. | 64 | 36 | 3 | 1 | St. Petersburg, Fla. | 132 | 108 | 1 | 6 |
| Providence, R. I. | 52 | 32 | — | 4 | Tampa, Fla. | 80 | 48 | 4 | 8 |
| Somerville, Mass. | 10 | 6 | 1 | — | Washington, D. C. | 203 | 93 | 3 | 10 |
| Springfield, Mass. | 43 | 25 | 2 | 4 | Wilmington, Del. | 40 | 23 | 2 | 7 |
| Waterbury, Conn. | 35 | 23 | — | — | | | | | |
| Worcester, Mass. | 48 | 33 | 2 | 4 | EAST SOUTH CENTRAL | 834 | 454 | 32 | 67 |
| | | | | | Birmingham, Ala. | 144 | 71 | 5 | 8 |
| MIDDLE ATLANTIC | 3,805 | 2,340 | 101 | 211 | Chattanooga, Tenn. | 76 | 41 | 2 | 12 |
| Albany, N. Y. | 72 | 51 | 1 | 4 | Knoxville, Tenn. | 42 | 30 | 1 | 3 |
| Allentown, Pa. | 24 | 19 | — | — | Louisville, Ky. | 179 | 106 | 7 | 22 |
| Buffalo, N. Y. | 174 | 110 | 4 | 5 | Memphis, Tenn. | 163 | 84 | 4 | 7 |
| Camden, N. J. | 46 | 27 | 2 | — | Mobile, Ala. | 59 | 33 | 2 | 2 |
| Elizabeth, N. J. | 37 | 19 | — | — | Montgomery, Ala. | 40 | 27 | 1 | 6 |
| Erie, Pa. | 38 | 25 | 2 | 5 | Nashville, Tenn. | 131 | 62 | 10 | 7 |
| Jersey City, N. J. | 88 | 59 | 2 | 4 | | | | | |
| Newark, N. J. | 88 | 49 | 6 | 7 | WEST SOUTH CENTRAL | 1,434 | 762 | 57 | 105 |
| New York City, N. Y. † | 2,052 | 1,250 | 55 | 100 | Austin, Tex. | 45 | 26 | 1 | 5 |
| Paterson, N. J. | 40 | 28 | 1 | 4 | Baton Rouge, La. | 54 | 24 | — | 2 |
| Philadelphia, Pa. | 436 | 253 | 7 | 5 | Corpus Christi, Tex. | 33 | 14 | 3 | 3 |
| Pittsburgh, Pa. | 250 | 143 | 6 | 23 | Dallas, Tex. | 217 | 116 | 11 | 16 |
| Reading, Pa. | 51 | 41 | 1 | 7 | El Paso, Tex. | 58 | 31 | 7 | 7 |
| Rochester, N. Y. | 111 | 73 | 1 | 8 | Fort Worth, Tex. | 85 | 46 | 6 | 3 |
| Schenectady, N. Y. | 26 | 19 | — | 4 | Houston, Tex. | 292 | 152 | 3 | 15 |
| Syracuse, N. Y. | 47 | 32 | — | 6 | Little Rock, Ark. | 59 | 29 | 1 | 4 |
| Trenton, N. J. | 49 | 29 | 2 | 7 | New Orleans, La. | 172 | 95 | 2 | 3 |
| Utica, N. Y. | 31 | 21 | 2 | 8 | Oklahoma City, Okla. | 90 | 50 | 6 | 7 |
| Yonkers, N. Y. | 55 | 40 | 2 | 9 | San Antonio, Tex. | 140 | 76 | 10 | 12 |
| | | | | | Shreveport, La. | 91 | 47 | 3 | 13 |
| | | | | | Tulsa, Okla. | 98 | 56 | 4 | 15 |
| EAST NORTH CENTRAL | 2,703 | 1,592 | 104 | 120 | | | | | |
| Akron, Ohio | 59 | 41 | 2 | — | MOUNTAIN | 563 | 333 | 28 | 37 |
| Canton, Ohio | 46 | 22 | 1 | 1 | Albuquerque, N. Mex. | 70 | 41 | 2 | 11 |
| Chicago, Ill. | 715 | 391 | 30 | 20 | Colorado Springs, Colo. | 28 | 14 | 2 | 5 |
| Cincinnati, Ohio | 171 | 107 | 4 | 8 | Denver, Colo. | 136 | 79 | 10 | 6 |
| Cleveland, Ohio | 177 | 98 | 8 | 4 | Ogden, Utah | 22 | 14 | 2 | 3 |
| Columbus, Ohio | 172 | 98 | 10 | 14 | Phoenix, Ariz. | 143 | 86 | 6 | 7 |
| Dayton, Ohio | 112 | 70 | 8 | 5 | Pueblo, Colo. | 21 | 13 | 1 | 2 |
| Detroit, Mich. | 355 | 213 | 9 | 13 | Salt Lake City, Utah | 73 | 41 | 4 | 2 |
| Evansville, Ind. | 41 | 32 | 2 | 4 | Tucson, Ariz. | 70 | 45 | 1 | 1 |
| Flint, Mich. ** | 54 | 30 | 3 | 3 | | | | | |
| Fort Wayne, Ind. | 56 | 34 | 3 | 8 | PACIFIC | 1,954 | 1,283 | 44 | 69 |
| Gary, Ind. | 23 | 12 | 1 | 3 | Berkeley, Calif. | 25 | 16 | — | — |
| Grand Rapids, Mich. | 61 | 39 | 3 | 3 | Fresno, Calif. | 59 | 34 | 1 | 3 |
| Indianapolis, Ind. | 146 | 89 | 6 | 6 | Glendale, Calif. | 37 | 26 | 1 | — |
| Madison, Wis. | 19 | 6 | — | 1 | Honolulu, Hawaii | 66 | 39 | 6 | 2 |
| Milwaukee, Wis. | 152 | 103 | 2 | 10 | Long Beach, Calif. | 128 | 81 | 1 | 9 |
| Peoria, Ill. | 49 | 32 | 3 | 2 | Los Angeles, Calif. | 597 | 410 | 10 | 17 |
| Rockford, Ill. | 40 | 22 | 2 | — | Oakland, Calif. | 97 | 57 | 3 | 1 |
| South Bend, Ind. | 39 | 22 | 3 | 3 | Pasadena, Calif. | 44 | 36 | — | 2 |
| Toledo, Ohio | 131 | 81 | 4 | 12 | Portland, Oreg. | 160 | 110 | 6 | 3 |
| Youngstown, Ohio | 85 | 50 | — | — | Sacramento, Calif. | 70 | 37 | 2 | 4 |
| | | | | | San Diego, Calif. | 118 | 76 | 4 | 2 |
| WEST NORTH CENTRAL | 958 | 621 | 38 | 57 | San Francisco, Calif. | 215 | 138 | 4 | 7 |
| Des Moines, Iowa | 61 | 40 | 4 | 7 | San Jose, Calif. | 61 | 38 | 2 | 4 |
| Duluth, Minn. | 31 | 28 | — | — | Seattle, Wash. | 176 | 115 | 3 | 8 |
| Kansas City, Kans. | 40 | 19 | 6 | 1 | Spokane, Wash. | 62 | 46 | 1 | 5 |
| Kansas City, Mo. | 144 | 83 | 6 | 3 | Tacoma, Wash. | 39 | 24 | — | 2 |
| Lincoln, Nebr. | 32 | 23 | — | 6 | | | | | |
| Minneapolis, Minn. | 116 | 82 | 4 | 8 | Total | 14,353 | 8,649 | 466 | 798 |
| Omaha, Nebr. | 82 | 55 | 2 | 3 | Expected Number | 13,498 | 7,858 | 582 | 593 |
| St. Louis, Mo. | 278 | 176 | 9 | 13 | Cumulative Total | | | | |
| St. Paul, Minn. | 119 | 79 | 4 | 9 | (includes reported corrections for previous weeks) | 103,462 | 61,696 | 3,641 | 6,007 |
| Wichita, Kans. | 55 | 36 | 3 | 7 | | | | | |
| | | | | | | | | | |
| Las Vegas, Nev.* | 19 | 6 | 2 | 2 | | | | | |

*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.

†Delayed report for week ended Feb. 12, 1972
**Estimate based on average per cent of divisional total

BALANTIDIASIS — Continued

Figure 3

BALANTIDIASIS CASES, BY DATE OF LABORATORY ISOLATION OF *BALANTIDIUM COLI*

Epidemiologic investigation revealed that the people live under primitive sanitary conditions and in close association with pigs, the principal reservoir of *B. coli*. On May 1, there had been a devastating typhoon that disrupted the primitive water catchment facilities and destroyed pig pens. People were forced to utilize ground or surface water supplies where pig feces containing *B. coli* were readily found. Compared with other intestinal parasitic diseases, balantidiasis occurs

infrequently among the Trukese people; only four isolates of *B. coli* were recorded in the 16 months prior to the typhoon. The epidemic probably resulted from the widespread contamination of water supplies by pig feces.

(Reported by W. M. Peck, M.D., Director of Health Services, Office of the High Commissioner, Trust Territory of the Pacific Islands; and the Parasitic Diseases Branch, Epidemiology Program, CDC.)

Editorial Note

The role of the pig in human infection with *B. coli* is controversial. The only other reported outbreaks of balantidiasis have been in mental institutions where the poor personal hygiene and habit of coprophagy among patients implicated person-to-person spread as the mode of transmission (1, 2). The present outbreak supports the hypothesis that man is usually highly resistant to *B. coli* infection even when living in close contact with pigs. Under exceptional circumstances, the pig can be a source of widespread human infection, but the disease is mild and self-limited.

References

1. Young MD: Balantidiasis. JAMA 113:580-584, 1939
2. Ferri LV: Contribution to the epidemiology of balantidiasis. Med Parazitol (Mosk) 11:108-112, 1942

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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.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

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