CENTER FOR DISEASE CONTROL

# Morbidity and Mortality

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WEEKLY REPORT

For Week Ending April 29, 1972

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

### MALARIA – Arkansas

On Oct. 5, 1971, a 22-year-old man in Arkansas experienced headache, nausea, vomiting, weakness, chills, and fever. His symptoms abated the following day, but on October 7, he had sudden onset of excruciating low-back pain and was hospitalized.

On admission, the patient was dyspneic, cold, cyanotic, and had no discernible pulse or blood pressure. Blood count included hemoglobin 10.9 gm%, hematocrit 33, white blood cells 7,300/mm$^3$ with normal differential. Resuscitation efforts were unsuccessful, and he died 30 minutes after admission.

Postmortem examination revealed massive hemoperitoneum (2,000 cc) secondary to spontaneous rupture of the spleen. The spleen was enlarged (weighing approximately 250 grams) and showed extensive subcapsular hemorrhage. Microscopically, there was congestion and malaria pigment. The liver was slightly enlarged but otherwise unremarkable. Postmortem peripheral blood smears demonstrated *Plasmodium vivax* parasites.

Epidemiologic investigation revealed that the patient had served in Vietnam for approximately 1 year and returned to the United States in September 1970. He had had several

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

| DISEASE | 17th WEEK ENDING | | MEDIAN 1967-1971 | CUMULATIVE, FIRST 17 WEEKS | | |
|---|---|---|---|---|---|---|
| | April 29, 1972 | May 1, 1971 | | 1972 | 1971 | MEDIAN 1967-1971 |
| Aseptic meningitis | 28 | 39 | 33 | 549 | 793 | 490 |
| Brucellosis | 6 | 2 | 8 | 42 | 42 | 46 |
| Chickenpox | 4,941 | – – – | – – – | 69,567 | – – – | – – – |
| Diphtheria | 4 | 1 | 2 | 37 | 61 | 61 |
| Encephalitis, primary: | | | | | | |
| Arthropod-borne and unspecified | 23 | 32 | 24 | 272 | 368 | 334 |
| Encephalitis, post-infectious | 7 | 8 | 13 | 90 | 102 | 148 |
| Hepatitis, serum (Hepatitis B) | 176 | 191 | 109 | 3,141 | 2,814 | 1,710 |
| Hepatitis, infectious (Hepatitis A) | 1,084 | 1,304 | 915 | 18,742 | 20,502 | 15,695 |
| Malaria | 14 | 47 | 47 | 448 | 1,225 | 800 |
| Measles (rubeola) | 1,186 | 4,003 | 1,786 | 15,007 | 40,997 | 22,076 |
| Meningococcal infections, total | 23 | 73 | 48 | 575 | 1,152 | 1,157 |
| Civilian | 22 | 69 | 40 | 549 | 985 | 1,036 |
| Military | 1 | 4 | 4 | 26 | 167 | 123 |
| Mumps | 2,339 | 4,036 | – – – | 36,306 | 63,040 | – – – |
| Rubella (German measles) | 1,277 | 1,862 | 1,965 | 12,742 | 22,779 | 23,353 |
| Tetanus | – | 2 | 1 | 24 | 24 | 35 |
| Tuberculosis, new active | 700 | – – – | – – – | 10,579 | – – – | – – – |
| Tularemia | 2 | – | 2 | 35 | 30 | 30 |
| Typhoid fever | 4 | 5 | 7 | 82 | 79 | 78 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | – | 3 | 3 | 21 | 11 | 8 |
| Venereal Diseases:† | | | | | | |
| Gonorrhea | 13,178 | 11,783 | – – – | 219,546 | 198,382 | – – – |
| Syphilis, primary and secondary | 534 | 436 | – – – | 7,711 | 7,685 | – – – |
| Rabies in animals | 94 | 99 | 76 | 1,443 | 1,541 | 1,319 |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|---|---|---|---|
| Anthrax: | – | Poliomyelitis, total: | 5 |
| Botulism: | – | Paralytic: | 5 |
| Congenital rubella syndrome: Calif.-1, Colo.-1 | 15 | Psittacosis: Ill.-1 | 10 |
| Leprosy: Calif.-1, Hawaii-3 | 36 | Rabies in man: | 1 |
| Leptospirosis: Miss.-1, Mo.-1 | 4 | Trichinosis: N.J.-1 | 31 |
| Plague: | 1 | Typhus, murine: | 5 |

†Numbers for 1971 are estimated from quarterly reports to the Venereal Disease Branch, CDC

MALARIA – Continued

attacks of malaria while in Vietnam and did not take the prescribed malaria chemoprophylaxis after his return to the United States. Beginning in November 1970, he suffered recurrent attacks of nausea, vomiting, chills, and fever; however, the cause of these attacks was never determined. He was usually treated with antibiotics, although he received amodiaquinine on one occasion because of the possibility of malaria. His last attack occurred in early September 1971 for which he was hospitalized 8 days.

In the month prior to his death, he had apparently been in good health. Careful history indicated no undue straining or trauma to his abdomen.

*(Reported by Annette V. Landrum, M.D., Director, Fort Smith Medical Laboratory, Fort Smith, Arkansas; John A. Harrel, Jr., M.D., Director of Communicable Diseases and Acting Director, Arkansas State Board of Health, Little Rock; and an EIS Officer.)*

## STAPHYLOCOCCAL FOOD POISONING – New York

On April 1, 1972, an outbreak of gastroenteritis occurred among 100 guests invited to celebrate a child's christening at a home in Orange County, New York. Thirty-seven people became ill 1½-6 hours after eating one or more of the 14 home-prepared foods. The predominant symptoms were nausea, vomiting, watery diarrhea, and hypotension. Three persons were hospitalized, and there were no deaths.

Food histories were obtained from 77 persons, and the results indicated fried rice as the source of infection. Thirty-seven out of 63 persons (59%) who ate the fried rice became ill, compared with 0 out of 14 who did not eat the rice. Cultures of the rice yielded coagulase positive *Staphylococcus aureus;* the organism was not phage typed. No stool specimens were obtained.

The fried rice had been prepared 9-12 hours prior to serving, placed on the dining room table, and not returned to the refrigerator. Dishes were heated intermittently to keep the food warm. The food was prepared by the hostess (a physician) and three members of her family.

*(Reported by Reuben Tizes, M.D., Commissioner of Health, Shirley Thornton, R.N., Director of Public Health Nursing, David B. Bechtle, Senior Public Health Sanitarian, Raymond G. Johanson, Public Health Sanitarian, Orange County Department of Health, Goshen, New York.)*

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## INTERNATIONAL NOTES

## *PASTEURELLA* AND *YERSINIA* INFECTIONS – United Kingdom

The number of *Pasteurella* and *Yersinia* isolates reported in the United Kingdom in the last 5 years is shown in Table 1. The organism most commonly isolated was *Pasteurella multocida* (formerly *P. septica),* and it was usually recovered from wound infections following a dog or cat bite (Table 2). The organism forms part of the normal flora of the upper respiratory tract in many animals and is presumably inoculated directly into the wound. Scratches may also become infected, although less frequently. A few of the infections were from less common sources: three cases resulted from attacks by lions and one case resulted from a wolf bite. The two isolations of *P. pneumotropica* listed in Table 1 were also from infected bites – one caused by a dog and the other by a cat.

*P. multocida* was occasionally recovered from superficial leg ulcers, and in most instances, a cat or dog was kept in the patient's home. In 13 cases, the organism was apparently responsible for post-operative wound infections; most of the operations had involved the appendix or large intestine. *P. multocida* is rarely invasive in man and usually causes only local sepsis; however, one patient contracted cellulitis following a cat scratch and another contracted septic arthritis in the shoulder joint following a cat bite on the hand. In one adult and one 7-day-old infant, the organism caused meningitis, and there were also two reports of septicemia. One was in an infant with sickle cell anemia who had diarrhea and subsequently died; *Pasteurella* was cultured from the blood postmortem.

*Pasteurella* species were occasionally recovered from the respiratory tract (Table 3). Most of the isolates were from the sputum of patients with chronic lung disease, and there was little evidence that the bacteria were acting as pathogens. In two cases, however, *P. multocida* was recovered as the only organism in empyema pus and from a lung abscess in a third patient. It was also recovered from pus aspirated from two patients with sinusitis. All the *P. ureae* strains reported were isolated from sputum, usually from patients with chronic lung disease and with little evidence to suggest pathogenicity. It was recovered from antral pus in two patients, however, and this organism may also sometimes act as a secondary invader in the respiratory tract.

The classification of the gram-negative bacilli of the *Pasteurella* genus has recently been altered in accordance with an improved knowledge of the characteristics of the bacteria. *P. pestis* and *P. pseudotuberculosis* are now considered to fall into the genus *Yersinia* which also includes *Y. enterocolitica.*

**Table 1**
**Number of Isolations of *Pasteurella* and *Yersinia* Organisms**
**United Kingdom – 1967-71**

| Year | *P. multocida* | *P. ureae* | *P. haemolytica* | *P. pneumotropica* | *Y. seudotuberculosis* | *Y. enterocolitica* |
|---|---|---|---|---|---|---|
| 1967 | 130 | 6 | 0 | 0 | 7 | 0 |
| 1968 | 116 | 19 | 0 | 1 | 10 | 0 |
| 1969 | 116 | 9 | 2 | 0 | 10 | 0 |
| 1970 | 112 | 12 | 2 | 1 | 4 | 1 |
| 1971 | 117 | 12 | 2 | 0 | 12 | 0 |
| Total | 591 | 58 | 6 | 2 | 43 | 1 |

**Table 2**
**Source of Non-Respiratory *Pasteurella multocida* Isolates**
**United Kingdom – 1967-71**

| Source | Number | Source | Number |
|---|---|---|---|
| Dog bite | 271 | Otitis media | 2 |
| Cat bite | 113 | Blood | 2 |
| Superficial ulcers | 19 | Pig bite | 1 |
| Post-operative wounds | 13 | Wolf bite | 1 |
| | | Vaginitis | 1 |
| Wounds not specified | 13 | Urine | 1 |
| | | Other | 7 |
| Cerebrospinal fluid | 3 | | |
| Lion bite | 3 | Total | 450 |

*Y. pseudotuberculosis* has been reported in 43 cases since 1967; all were diagnosed serologically, and in 27 of these patients, the diagnosis was confirmed by histology, skin test, or culture. All the patients had mesenteric adenitis except one who presented with erythema nodosum; most of the patients were between 6 and 17 years of age. Although *Y. pseudotuberculosis* infection is rarely diagnosed in Britain, it may be more common than these figures suggest, because the organism is not often looked for and other cases from which reports are not received are probably diagnosed histologically. *(From notes based on reports to the Public Health Laboratory Service from Public Health and Hospital Laboratories in the United Kingdom and Republic of Ireland, published in the* British Medical Journal, *Jan. 29, 1972.)*

**Table 3**
***Pasteurella* Isolates Recovered from Respiratory Tracts**
**United Kingdom – 1967-71**

| Year | *P. multocida* | *P. ureae* | *P. haemolytica* |
|---|---|---|---|
| 1967 | 36 | 5 | 0 |
| 1968 | 44 | 19 | 1 |
| 1969 | 20 | 9 | 1 |
| 1970 | 22 | 12 | 0 |
| 1971 | 19 | 11 | 0 |
| Total | 141 | 56 | 2 |

## SUMMARY OF REPORTED CASES OF PRIMARY AND SECONDARY SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas March 1972 and March 1971 – Provisional Data

| Reporting Area | March | | Cumulative Jan.–March | |
|---|---|---|---|---|
| | 1972 | 1971 | 1972 | 1972 |
| NEW ENGLAND | 79 | 71 | 220 | 171 |
| Maine | 2 | 2 | 5 | 4 |
| New Hampshire | 3 | 1 | 3 | 1 |
| Vermont | 3 | – | 3 | 1 |
| Massachusetts | 40 | 33 | 114 | 83 |
| Rhode Island | 6 | 7 | 10 | 14 |
| Connecticut | 25 | 28 | 85 | 68 |
| MIDDLE ATLANTIC | 512 | 510 | 1,374 | 1,518 |
| Upstate New York | 41 | 34 | 111 | 115 |
| New York City | 359 | 349 | 925 | 1,031 |
| Pa. (Excl. Phila.) | 18 | 15 | 46 | 43 |
| Philadelphia | 32 | 16 | 87 | 39 |
| New Jersey | 62 | 96 | 205 | 290 |
| EAST NORTH CENTRAL | 236 | 218 | 680 | 640 |
| Ohio | 44 | 42 | 92 | 117 |
| Indiana | 19 | 23 | 44 | 80 |
| Downstate Illinois | 17 | 16 | 45 | 36 |
| Chicago | 82 | 76 | 271 | 208 |
| Michigan | 71 | 53 | 219 | 177 |
| Wisconsin | 3 | 8 | 9 | 22 |
| WEST NORTH CENTRAL | 26 | 42 | 71 | 126 |
| Minnesota | 1 | 6 | 6 | 18 |
| Iowa | 8 | 2 | 10 | 2 |
| Missouri | 10 | 27 | 38 | 79 |
| North Dakota | – | – | – | – |
| South Dakota | – | 2 | – | 3 |
| Nebraska | 2 | 1 | 5 | 8 |
| Kansas | 5 | 4 | 12 | 16 |
| SOUTH ATLANTIC | 557 | 472 | 1,545 | 1,400 |
| Delaware | 8 | 5 | 16 | 9 |
| Maryland | 87 | 48 | 226 | 135 |
| District of Columbia | 72 | 50 | 199 | 147 |
| Virginia | 37 | 42 | 103 | 97 |
| West Virginia | 5 | 2 | 7 | 7 |
| North Carolina | 55 | 29 | 138 | 109 |
| South Carolina | 33 | 30 | 124 | 76 |
| Georgia | 89 | 106 | 355 | 366 |
| Florida | 171 | 160 | 377 | 454 |

| Reporting Area | March | | Cumulative Jan.–March | |
|---|---|---|---|---|
| | 1972 | 1971 | 1972 | 1971 |
| EAST SOUTH CENTRAL | 123 | 91 | 335 | 252 |
| Kentucky | 25 | 32 | 50 | 81 |
| Tennessee | 36 | 29 | 138 | 76 |
| Alabama | 11 | 7 | 39 | 25 |
| Mississippi | 51 | 23 | 106 | 70 |
| WEST SOUTH CENTRAL | 267 | 363 | 771 | 1,018 |
| Arkansas | 22 | 20 | 73 | 58 |
| Louisiana | 88 | 61 | 204 | 157 |
| Oklahoma | 15 | 14 | 30 | 24 |
| Texas | 142 | 268 | 464 | 779 |
| MOUNTAIN | 51 | 37 | 118 | 131 |
| Montana | – | – | 1 | – |
| Idaho | – | – | 1 | – |
| Wyoming | 2 | – | 5 | 1 |
| Colorado | 8 | 5 | 12 | 11 |
| New Mexico | 9 | 8 | 29 | 26 |
| Arizona | 20 | 13 | 49 | 51 |
| Utah | 6 | 1 | 7 | 6 |
| Nevada | 6 | 10 | 14 | 36 |
| PACIFIC | 306 | 337 | 843 | 785 |
| Washington | 12 | 21 | 27 | 41 |
| Oregon | 3 | 3 | 11 | 5 |
| California | 288 | 312 | 794 | 733 |
| Alaska | 3 | – | 4 | 3 |
| Hawaii | – | 1 | 7 | 3 |
| U.S. TOTAL | 2,157 | 2,141 | 5,957 | 6,041 |
| TERRITORIES | 85 | 97 | 224 | 215 |
| Puerto Rico | 76 | 94 | 203 | 207 |
| Virgin Islands | 9 | 3 | 21 | 8 |

Note: Cumulative Totals include revised and delayed reports through previous months.

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
## FOR WEEKS ENDING APRIL 29, 1972 AND MAY 1, 1971 (17th WEEK)

| AREA | ASEPTIC MENINGITIS | BRUCELLOSIS | CHICKENPOX | DIPHTHERIA | | ENCEPHALITIS | | | HEPATITIS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Primary including unspec. cases | | Post Infectious | Serum (HEPATITIS B) | Infectious (HEPATITIS A) | |
| | 1972 | 1972 | 1972 | 1972 | Cum. 1972 | 1972 | 1971 | 1972 | 1972 | 1972 | 1971 |
| UNITED STATES | 28 | 6 | 4,941 | 4 | 37 | 23 | 32 | 7 | 176 | 1,084 | 1,304 |
| NEW ENGLAND | 1 | – | 648 | – | – | 2 | 1 | – | 12 | 67 | 98 |
| Maine * | – | – | 32 | – | – | – | 1 | – | – | 2 | 10 |
| New Hampshire | – | – | – | – | – | – | – | – | – | 7 | 7 |
| Vermont | – | – | 2 | – | – | – | – | – | – | 4 | 6 |
| Massachusetts | 1 | – | 245 | – | – | 1 | – | – | 3 | 42 | 33 |
| Rhode Island | – | – | 117 | – | – | – | – | – | 4 | 2 | 21 |
| Connecticut | – | – | 252 | – | – | 1 | – | – | 5 | 10 | 21 |
| MIDDLE ATLANTIC | 1 | – | 466 | – | 1 | – | 1 | 2 | 58 | 178 | 284 |
| Upstate New York | – | – | 1 | – | 1 | – | – | 1 | 9 | 38 | 41 |
| New York City | 1 | – | 246 | – | – | – | – | – | 34 | 44 | 78 |
| New Jersey | – | – | NN | – | – | – | 1 | – | 6 | 54 | 73 |
| Pennsylvania | – | – | 219 | – | – | – | – | 1 | 9 | 42 | 92 |
| EAST NORTH CENTRAL | 2 | – | 2,121 | – | 1 | 5 | 20 | – | 29 | 128 | 203 |
| Ohio | 1 | – | 286 | – | – | 1 | 11 | – | 5 | 20 | 51 |
| Indiana | – | – | 85 | – | – | 1 | 2 | – | – | 8 | 3 |
| Illinois | – | – | 292 | – | – | 1 | 3 | – | 8 | 33 | 68 |
| Michigan | 1 | – | 707 | – | 1 | 2 | 4 | – | 14 | 62 | 71 |
| Wisconsin | – | – | 751 | – | – | – | – | – | 2 | 5 | 10 |
| WEST NORTH CENTRAL | 3 | 4 | 342 | 1 | 6 | 3 | 1 | 1 | 6 | 53 | 38 |
| Minnesota | – | – | 32 | – | – | – | – | – | 2 | 18 | 7 |
| Iowa | – | 3 | 223 | – | – | 1 | – | – | 2 | 6 | 5 |
| Missouri | 3 | 1 | 41 | – | – | 2 | – | – | – | 9 | 8 |
| North Dakota | – | – | 15 | – | – | – | – | – | – | 3 | 2 |
| South Dakota | – | – | – | 1 | 6 | – | – | – | – | 4 | 5 |
| Nebraska | – | – | 11 | – | – | – | – | – | – | 1 | 5 |
| Kansas | – | – | 20 | – | – | – | 1 | 1 | 2 | 12 | 6 |
| SOUTH ATLANTIC | 3 | – | 459 | – | 6 | 6 | 2 | – | 27 | 186 | 173 |
| Delaware | – | – | 12 | – | – | – | – | – | 4 | 5 | 2 |
| Maryland | – | – | 36 | – | – | 1 | – | – | 3 | 26 | 13 |
| District of Columbia | – | – | 8 | – | – | – | – | – | 1 | 2 | 2 |
| Virginia | – | – | 56 | – | – | 1 | 2 | – | 7 | 27 | 23 |
| West Virginia * | – | – | 341 | – | – | – | – | – | – | 6 | 3 |
| North Carolina | 1 | – | NN | – | – | – | – | – | 2 | 46 | 29 |
| South Carolina | – | – | 6 | – | – | – | – | – | – | 6 | 12 |
| Georgia | – | – | – | – | 2 | – | – | – | – | 12 | 28 |
| Florida | 2 | – | – | – | 4 | 4 | – | – | 10 | 56 | 61 |
| EAST SOUTH CENTRAL | 3 | – | 135 | – | 1 | 3 | 4 | – | 6 | 57 | 38 |
| Kentucky | – | – | 107 | – | – | – | – | – | 1 | 17 | 7 |
| Tennessee | 2 | – | NN | – | – | – | 1 | – | 5 | 35 | 18 |
| Alabama | 1 | – | 25 | – | 1 | 3 | 1 | – | – | – | 5 |
| Mississippi | – | – | 3 | – | – | – | 2 | – | – | 5 | 8 |
| WEST SOUTH CENTRAL | 7 | 2 | 6 | 3 | 20 | – | – | 2 | 3 | 101 | 144 |
| Arkansas | – | – | 1 | – | – | – | – | – | – | 5 | 5 |
| Louisiana | – | – | NN | – | 4 | – | – | 2 | – | 16 | 8 |
| Oklahoma | 1 | 2 | 1 | – | – | – | – | – | – | 5 | 16 |
| Texas | 6 | – | 4 | 3 | 16 | – | – | – | 3 | 75 | 115 |
| MOUNTAIN | – | – | 153 | – | 2 | – | – | 1 | 6 | 84 | 86 |
| Montana | – | – | 38 | – | – | – | – | 1 | – | 5 | 6 |
| Idaho | – | – | – | – | – | – | – | – | 1 | 4 | 5 |
| Wyoming | – | – | 5 | – | – | – | – | – | – | 3 | 1 |
| Colorado | – | – | 32 | – | – | – | – | – | 3 | 16 | 32 |
| New Mexico | – | – | 31 | – | 1 | – | – | – | 1 | 33 | 12 |
| Arizona | – | – | 47 | – | 1 | – | – | – | – | 13 | 19 |
| Utah | – | – | – | – | – | – | – | – | 1 | 9 | 11 |
| Nevada | – | – | – | – | – | – | – | – | – | 1 | – |
| PACIFIC | 8 | – | 611 | – | – | 4 | 3 | 1 | 29 | 230 | 240 |
| Washington * | 1 | – | 597 | – | – | 1 | – | – | – | 14 | 26 |
| Oregon | – | – | – | – | – | – | – | 1 | – | 31 | 29 |
| California | 7 | – | – | – | – | 3 | 3 | – | 28 | 159 | 184 |
| Alaska | – | – | 14 | – | – | – | – | – | 1 | 20 | – |
| Hawaii | – | – | – | – | – | – | – | – | – | 6 | 1 |
| Guam * | – | – | 11 | – | – | – | --- | – | – | 2 | --- |
| Puerto Rico | – | – | 68 | – | – | – | – | – | – | 32 | 31 |
| Virgin Islands | – | – | – | – | – | – | – | – | – | 1 | – |

*Delayed reports: Chickenpox: Me. 139, W. Va. 16, Guam 5
Hepatitis B: Me. 3, Wash. delete 1
Hepatitis A: Me. 5, Wash. 1, Guam 5

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING APRIL 29, 1972 AND MAY 1, 1971 (17th 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 | 14 | 448 | 1,186 | 15,007 | 40,997 | 23 | 575 | 1,152 | 2,339 | 36,306 | 1,277 | 12,742 |
| NEW ENGLAND | – | 10 | 185 | 1,252 | 1,637 | – | 24 | 49 | 52 | 1,507 | 65 | 588 |
| Maine * | – | – | 4 | 149 | 769 | – | 3 | 7 | 4 | 174 | – | 43 |
| New Hampshire | – | 1 | – | 86 | 100 | – | – | 6 | – | 96 | – | 24 |
| Vermont | – | – | 16 | 38 | 62 | – | – | – | – | 76 | – | 18 |
| Massachusetts * | – | 5 | 43 | 221 | 156 | – | 13 | 19 | 21 | 406 | 54 | 304 |
| Rhode Island | – | – | 63 | 217 | 33 | – | 6 | 2 | 19 | 276 | 5 | 48 |
| Connecticut | – | 4 | 59 | 541 | 517 | – | 2 | 15 | 8 | 479 | 6 | 151 |
| MIDDLE ATLANTIC | 1 | 33 | 17 | 668 | 4,293 | 1 | 58 | 143 | 80 | 1,657 | 162 | 992 |
| Upstate New York | – | 7 | 5 | 75 | 286 | – | 15 | 38 | NN | NN | 2 | 147 |
| New York City | – | 5 | 7 | 134 | 2,502 | 1 | 13 | 24 | 49 | 746 | 11 | 116 |
| New Jersey | 1 | 10 | 5 | 434 | 486 | – | 16 | 37 | 4 | 541 | 132 | 586 |
| Pennsylvania | – | 11 | – | 25 | 1,019 | – | 14 | 44 | 27 | 370 | 17 | 143 |
| EAST NORTH CENTRAL | 4 | 45 | 403 | 5,642 | 8,019 | 1 | 74 | 116 | 626 | 10,133 | 250 | 3,385 |
| Ohio | – | 6 | 10 | 185 | 2,541 | – | 26 | 32 | 75 | 1,479 | 6 | 215 |
| Indiana | – | 1 | 28 | 871 | 1,241 | – | 10 | 6 | 11 | 701 | 9 | 416 |
| Illinois | 3 | 16 | 136 | 2,144 | 1,871 | – | 15 | 38 | 89 | 1,813 | 57 | 600 |
| Michigan | 1 | 20 | 114 | 1,039 | 765 | 1 | 20 | 32 | 154 | 1,726 | 64 | 775 |
| Wisconsin | – | 2 | 115 | 1,403 | 1,601 | – | 3 | 8 | 297 | 4,414 | 114 | 1,379 |
| WEST NORTH CENTRAL | – | 29 | 44 | 527 | 4,225 | 3 | 49 | 104 | 338 | 6,564 | 23 | 624 |
| Minnesota | – | 3 | – | 14 | 37 | – | 10 | 14 | 10 | 567 | 4 | 43 |
| Iowa | – | 3 | 41 | 304 | 1,546 | 1 | 1 | 7 | 230 | 4,652 | 9 | 299 |
| Missouri | – | 8 | 2 | 137 | 1,469 | 2 | 15 | 40 | 74 | 312 | 4 | 88 |
| North Dakota | – | 1 | – | 36 | 149 | – | – | 4 | 9 | 257 | – | 18 |
| South Dakota | – | 4 | – | 4 | 185 | – | 2 | 5 | 1 | 79 | – | 11 |
| Nebraska | – | 3 | 1 | 14 | 23 | – | 7 | 11 | 14 | 173 | – | 42 |
| Kansas | – | 7 | – | 18 | 816 | – | 14 | 23 | – | 524 | 6 | 123 |
| SOUTH ATLANTIC | 3 | 60 | 82 | 1,355 | 4,231 | 8 | 133 | 179 | 153 | 3,049 | 39 | 987 |
| Delaware | – | – | 5 | 11 | 22 | – | 1 | 1 | 2 | 35 | 1 | 2 |
| Maryland | – | – | – | 10 | 65 | 1 | 23 | 27 | 10 | 149 | 2 | 27 |
| District of Columbia | – | 1 | – | – | 4 | – | 4 | 7 | – | 4 | – | 1 |
| Virginia | – | 2 | 4 | 38 | 830 | 2 | 32 | 16 | 35 | 443 | 2 | 49 |
| West Virginia | – | 1 | 12 | 149 | 267 | – | 9 | 2 | 65 | 1,622 | 22 | 282 |
| North Carolina | 1 | 24 | 1 | 26 | 1,397 | 1 | 20 | 26 | NN | NN | – | 6 |
| South Carolina | – | 8 | 5 | 167 | 616 | 2 | 12 | 16 | 2 | 119 | – | 36 |
| Georgia | 2 | 18 | – | 122 | 165 | – | 2 | 11 | – | 1 | 2 | 30 |
| Florida | – | 6 | 55 | 832 | 865 | 2 | 30 | 73 | 39 | 676 | 10 | 554 |
| EAST SOUTH CENTRAL | 1 | 122 | 26 | 845 | 5,410 | 2 | 47 | 107 | 109 | 1,880 | 363 | 1,051 |
| Kentucky | 1 | 115 | 8 | 454 | 2,669 | 2 | 14 | 34 | 14 | 297 | 327 | 625 |
| Tennessee | – | – | 6 | 146 | 453 | – | 18 | 36 | 52 | 1,153 | 33 | 326 |
| Alabama * | – | 3 | 7 | 108 | 969 | – | 9 | 22 | 41 | 343 | – | 24 |
| Mississippi | – | 4 | 5 | 137 | 1,319 | – | 6 | 15 | 2 | 87 | 3 | 76 |
| WEST SOUTH CENTRAL | 4 | 49 | 79 | 952 | 9,252 | 1 | 70 | 102 | 136 | 2,903 | 50 | 977 |
| Arkansas * | – | 3 | – | 7 | 604 | – | 7 | 4 | 5 | 84 | – | 16 |
| Louisiana * | – | 2 | 21 | 70 | 1,287 | – | 19 | 34 | 18 | 150 | 1 | 54 |
| Oklahoma | – | 2 | 2 | 8 | 652 | – | 6 | 6 | 1 | 108 | – | 14 |
| Texas | 4 | 42 | 56 | 867 | 6,709 | 1 | 38 | 58 | 112 | 2,561 | 49 | 893 |
| MOUNTAIN | – | 32 | 63 | 1,025 | 1,931 | – | 11 | 30 | 112 | 1,970 | 51 | 629 |
| Montana | – | 1 | – | 12 | 719 | – | 2 | 2 | 7 | 130 | – | 16 |
| Idaho | – | 3 | 5 | 12 | 157 | – | 2 | 2 | 54 | 160 | – | 6 |
| Wyoming | – | – | 1 | 1 | 64 | – | 1 | 1 | 2 | 182 | 2 | 6 |
| Colorado | – | 21 | 15 | 338 | 538 | – | 2 | 5 | 9 | 504 | 27 | 325 |
| New Mexico | – | 1 | 3 | 67 | 207 | – | 1 | 2 | – | 429 | 8 | 60 |
| Arizona | – | 5 | 39 | 467 | 169 | – | 1 | 8 | 23 | 496 | 13 | 198 |
| Utah | – | 1 | – | 128 | 74 | – | 1 | 9 | – | 29 | 1 | 15 |
| Nevada | – | – | – | – | 3 | – | 1 | 1 | 17 | 40 | – | 3 |
| PACIFIC | 1 | 68 | 287 | 2,741 | 1,999 | 7 | 109 | 322 | 733 | 6,643 | 274 | 3,509 |
| Washington | – | – | 102 | 608 | 540 | – | 11 | 14 | 416 | 2,439 | 76 | 605 |
| Oregon | 1 | 7 | 2 | 27 | 193 | 1 | 7 | 18 | 49 | 818 | 8 | 240 |
| California | – | 53 | 180 | 2,029 | 1,199 | 6 | 88 | 286 | 263 | 3,193 | 188 | 2,612 |
| Alaska | – | 1 | – | 5 | 8 | – | – | – | – | 90 | 1 | 15 |
| Hawaii | – | 7 | 3 | 72 | 59 | – | 3 | 4 | 5 | 103 | 1 | 37 |
| Guam * | – | 2 | – | 2 | --- | – | 6 | --- | 1 | 2 | – | 5 |
| Puerto Rico | – | 2 | 42 | 287 | 156 | – | 2 | – | 45 | 325 | – | 2 |
| Virgin Islands | – | – | – | – | 5 | – | 2 | – | – | 105 | – | 3 |

*Delayed reports: Malaria: Guam 1
Measles: Me. 19, Mass. delete 12, Ala. 2
Meningococcal infections: La. delete 1
Mumps: Me. 44
Rubella: Me. 6, Ark. delete 39

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING APRIL 29, 1972 AND MAY 1, 1971 (17th WEEK) – Continued

| AREA | TETANUS | TB (New Active) | TULAREMIA | | TYPHOID FEVER | | TYPHUS FEVER TICK-BORNE (Rky. Mt. spotted fever) | | VENEREAL DISEASES | | RABIES IN ANIMALS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | GONORRHEA | SYPHILIS (Pri. & Sec.) | | |
| | 1972 | 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | 1972 | 1972 | Cum. 1972 |
| UNITED STATES | – | 700 | 2 | 35 | 4 | 82 | – | 21 | 13,178 | 534 | 94 | 1,443 |
| NEW ENGLAND | – | 34 | – | – | – | 5 | – | – | 380 | 16 | 4 | 56 |
| Maine | – | 5 | – | – | – | – | – | – | 11 | 2 | 2 | 50 |
| New Hampshire | – | 1 | – | – | – | – | – | – | 15 | – | – | – |
| Vermont | – | 3 | – | – | – | – | – | – | 6 | – | 2 | 6 |
| Massachusetts | – | 14 | – | – | – | 3 | – | – | 237 | 3 | – | – |
| Rhode Island | – | 3 | – | – | – | – | – | – | 22 | – | – | – |
| Connecticut | – | 8 | – | – | – | 2 | – | – | 89 | 11 | – | – |
| MIDDLE ATLANTIC | – | 143 | – | 1 | – | 18 | – | 3 | 1,966 | 128 | 2 | 28 |
| Upstate New York | – | 20 | – | – | – | 6 | – | – | 232 | 22 | 1 | 14 |
| New York City | – | 57 | – | – | – | 8 | – | – | 1,001 | 84 | – | – |
| New Jersey | – | 21 | – | 1 | – | 3 | – | 1 | 248 | 14 | – | – |
| Pennsylvania | – | 45 | – | – | – | 1 | – | 2 | 485 | 8 | 1 | 14 |
| EAST NORTH CENTRAL | – | 143 | – | 1 | 1 | 5 | – | – | 1,252 | 34 | 3 | 150 |
| Ohio .* | – | 17 | – | 1 | – | 2 | – | – | 346 | 2 | – | 51 |
| Indiana | – | 37 | – | – | – | – | – | – | 157 | 6 | – | 40 |
| Illinois | – | 51 | – | – | – | – | – | – | 115 | 3 | 1 | 22 |
| Michigan | – | 38 | – | – | 1 | 3 | – | – | 450 | 20 | – | 2 |
| Wisconsin | – | – | – | – | – | – | – | – | 184 | 3 | 2 | 35 |
| WEST NORTH CENTRAL | – | 24 | – | 7 | – | 3 | – | 1 | 754 | 13 | 35 | 351 |
| Minnesota | – | 1 | – | – | – | – | – | – | 162 | 2 | 4 | 84 |
| Iowa | – | 3 | – | – | – | – | – | – | 156 | 8 | 16 | 95 |
| Missouri | – | 12 | – | 7 | – | 2 | – | – | 195 | 3 | 6 | 38 |
| North Dakota | – | 1 | – | – | – | – | – | – | 30 | – | 4 | 60 |
| South Dakota | – | 2 | – | – | – | – | – | – | 12 | – | – | 30 |
| Nebraska | – | 4 | – | – | – | – | – | – | 87 | – | 1 | 4 |
| Kansas | – | 1 | – | – | – | 1 | – | 1 | 112 | – | 4 | 40 |
| SOUTH ATLANTIC | – | 138 | – | 5 | – | 9 | – | 10 | 2,793 | 169 | 9 | 124 |
| Delaware | – | 2 | – | – | – | – | – | – | 29 | 1 | – | – |
| Maryland | – | 28 | – | – | – | 1 | – | – | 63 | 2 | 1 | 2 |
| District of Columbia | – | 1 | – | – | – | 1 | – | – | 257 | 12 | – | – |
| Virginia | – | 9 | – | 4 | – | 3 | – | 8 | 482 | 48 | 4 | 41 |
| West Virginia .* | – | 10 | – | – | – | 1 | – | – | 15 | – | 2 | 31 |
| North Carolina | – | 17 | – | – | – | – | – | 1 | 277 | 11 | – | – |
| South Carolina | – | – | – | – | – | – | – | 1 | 300 | 25 | – | – |
| Georgia | – | 19 | – | – | – | – | – | – | 419 | 27 | 2 | 29 |
| Florida | – | 52 | – | 1 | – | 3 | – | – | 951 | 43 | – | 21 |
| EAST SOUTH CENTRAL | – | 64 | – | 2 | – | 7 | – | 2 | 939 | 33 | 12 | 333 |
| Kentucky | – | 16 | – | – | – | 2 | – | – | 124 | 10 | 5 | 111 |
| Tennessee | – | 26 | – | 1 | – | 1 | – | 1 | 437 | 10 | 6 | 187 |
| Alabama | – | 18 | – | 1 | – | – | – | 1 | 206 | 2 | 1 | 35 |
| Mississippi | – | 4 | – | – | – | 4 | – | – | 172 | 11 | – | – |
| WEST SOUTH CENTRAL | – | 44 | 2 | 16 | 1 | 6 | – | 5 | 2,076 | 55 | 22 | 307 |
| Arkansas | – | 8 | 1 | 10 | – | 2 | – | – | 503 | 3 | 2 | 49 |
| Louisiana .* | – | – | – | 1 | – | – | – | – | 331 | 25 | – | 17 |
| Oklahoma | – | 4 | – | 2 | 1 | 1 | – | 3 | 208 | – | 13 | 142 |
| Texas | – | 32 | 1 | 3 | – | 3 | – | 2 | 1,034 | 27 | 7 | 99 |
| MOUNTAIN | – | 5 | – | 2 | – | 3 | – | – | 425 | 12 | – | 21 |
| Montana | – | – | – | – | – | – | – | – | 25 | – | – | – |
| Idaho | – | 2 | – | – | – | – | – | – | 34 | 1 | – | – |
| Wyoming | – | 1 | – | – | – | – | – | – | 8 | 1 | – | – |
| Colorado | – | – | – | 1 | – | – | – | – | 79 | – | – | – |
| New Mexico | – | – | – | – | – | 1 | – | – | 108 | 6 | – | 1 |
| Arizona .* | – | – | – | 1 | – | 1 | – | – | 125 | 4 | – | 20 |
| Utah | – | 2 | – | – | – | 1 | – | – | 32 | – | – | – |
| Nevada | – | – | – | – | – | – | – | – | 14 | – | – | – |
| PACIFIC | – | 105 | – | 1 | 2 | 26 | – | – | 2,593 | 74 | 7 | 73 |
| Washington | – | 4 | – | – | – | – | – | – | 184 | 4 | – | – |
| Oregon | – | 8 | – | – | – | – | – | – | 156 | 2 | – | – |
| California .* | – | 80 | – | – | 2 | 23 | – | – | 2,175 | 68 | 7 | 69 |
| Alaska | – | 7 | – | 1 | – | – | – | – | 78 | – | – | 4 |
| Hawaii | – | 6 | – | – | – | 3 | – | – | – | – | – | – |
| Guam .* | – | 1 | – | – | – | – | – | – | 6 | – | – | – |
| Puerto Rico | – | 13 | – | – | – | 2 | – | – | 64 | 11 | – | 21 |
| Virgin Islands | – | – | – | – | – | – | – | – | – | – | – | – |

*Delayed reports: Tetanus: Calif. 1
Tuberculosis: Ohio delete 1
Typhoid fever: W. Va. 1
Gonorrhea: La. delete 4, Guam 5
Rabies in animals: Ariz. 11

Week No. 17

## TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING APRIL 29, 1972

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

| Area | All Causes | | | Pneumonia and Influenza | Area | All Causes | | | Pneumonia and Influenza |
|---|---|---|---|---|---|---|---|---|---|
| | All Ages | 65 years and over | Under 1 year | All Ages | | All Ages | 65 years and over | Under 1 year | All Ages |
| NEW ENGLAND | 655 | 387 | 15 | 42 | SOUTH ATLANTIC | 1,153 | 604 | 34 | 34 |
| Boston, Mass. | 192 | 93 | 6 | 10 | Atlanta, Ga. | 134 | 62 | 7 | 4 |
| Bridgeport, Conn. | 34 | 20 | – | 1 | Baltimore, Md. | 237 | 115 | 3 | 3 |
| Cambridge, Mass. | 37 | 28 | – | 7 | Charlotte, N. C. | 59 | 32 | 2 | – |
| Fall River, Mass. | 26 | 17 | – | 1 | Jacksonville, Fla. | 79 | 45 | 2 | 1 |
| Hartford, Conn. | 40 | 22 | 1 | – | Miami, Fla. | 88 | 49 | 8 | 2 |
| Lowell, Mass. | 24 | 12 | 1 | – | Norfolk, Va. | 61 | 28 | 1 | 4 |
| Lynn, Mass. | 19 | 11 | 1 | – | Richmond, Va. | 86 | 43 | 1 | 7 |
| New Bedford, Mass. | 32 | 19 | 1 | 1 | Savannah, Ga. | 25 | 17 | 1 | 3 |
| New Haven, Conn. | 53 | 33 | – | 3 | St. Petersburg, Fla. | 82 | 62 | 1 | 1 |
| Providence, R. I. | 62 | 35 | 3 | 5 | Tampa, Fla. | 76 | 37 | 3 | 4 |
| Somerville, Mass. | 17 | 14 | – | 1 | Washington, D. C. | 183 | 89 | 4 | 4 |
| Springfield, Mass. | 52 | 36 | 2 | 7 | Wilmington, Del. | 43 | 25 | 1 | 1 |
| Waterbury, Conn. | 18 | 10 | – | – | | | | | |
| Worcester, Mass. | 49 | 37 | – | 6 | EAST SOUTH CENTRAL | 650 | 347 | 30 | 29 |
| | | | | | Birmingham, Ala. | 110 | 57 | 2 | 4 |
| MIDDLE ATLANTIC | 3,360 | 2,067 | 83 | 161 | Chattanooga, Tenn. | 50 | 25 | 4 | 3 |
| Albany, N. Y. | 49 | 26 | 4 | 1 | Knoxville, Tenn. | 38 | 25 | – | 1 |
| Allentown, Pa. | 28 | 20 | – | 2 | Louisville, Ky. | 110 | 62 | 5 | 8 |
| Buffalo, N. Y. | 161 | 97 | 3 | 7 | Memphis, Tenn. | 150 | 81 | 8 | 1 |
| Camden, N. J. | 39 | 22 | 2 | 3 | Mobile, Ala. | 60 | 33 | 3 | 3 |
| Elizabeth, N. J. | 36 | 20 | – | 3 | Montgomery, Ala. | 35 | 17 | 1 | 4 |
| Erie, Pa. | 52 | 35 | 1 | 1 | Nashville, Tenn. | 97 | 47 | 7 | 5 |
| Jersey City, N. J. | 50 | 36 | – | 4 | | | | | |
| Newark, N. J. | 65 | 30 | 5 | 2 | WEST SOUTH CENTRAL | 1,347 | 697 | 103 | 50 |
| New York City, N. Y.† | 1,714 | 1,044 | 31 | 80 | Austin, Tex. | 60 | 33 | 2 | 7 |
| Paterson, N. J. | 38 | 26 | 2 | 5 | Baton Rouge, La. | 57 | 33 | 4 | 3 |
| Philadelphia, Pa. | 501 | 318 | 10 | 12 | Corpus Christi, Tex. | 23 | 15 | – | 3 |
| Pittsburgh, Pa. | 240 | 139 | 11 | 9 | Dallas, Tex. | 165 | 85 | 9 | 2 |
| Reading, Pa. | 35 | 22 | 3 | 3 | El Paso, Tex. | 75 | 38 | 11 | 12 |
| Rochester, N. Y. | 113 | 79 | 4 | 14 | Fort Worth, Tex. | 81 | 43 | 8 | – |
| Schenectady, N. Y. | 24 | 14 | – | 1 | Houston, Tex. | 337 | 142 | 49 | 8 |
| Scranton, Pa. | 38 | 28 | 1 | 2 | Little Rock, Ark. | 58 | 23 | 5 | – |
| Syracuse, N. Y. | 80 | 46 | 4 | 2 | New Orleans, La. | 142 | 74 | – | 2 |
| Trenton, N. J. | 40 | 22 | 1 | 2 | Oklahoma City, Okla. | 65 | 38 | 3 | 1 |
| Utica, N. Y. | 27 | 20 | 1 | 3 | San Antonio, Tex. | 130 | 79 | 9 | 3 |
| Yonkers, N. Y. | 30 | 23 | – | 5 | Shreveport, La. | 67 | 39 | 1 | 3 |
| | | | | | Tulsa, Okla. | 87 | 55 | 2 | 6 |
| EAST NORTH CENTRAL | 2,476 | 1,441 | 105 | 83 | | | | | |
| Akron, Ohio | 73 | 45 | 2 | – | MOUNTAIN | 457 | 262 | 30 | 16 |
| Canton, Ohio | 42 | 28 | – | 4 | Albuquerque, N. Mex. | 36 | 24 | 1 | 3 |
| Chicago, Ill. | 682 | 384 | 32 | 25 | Colorado Springs, Colo. | 24 | 13 | 2 | 4 |
| Cincinnati, Ohio | 159 | 102 | 3 | 5 | Denver, Colo. | 113 | 62 | 10 | 2 |
| Cleveland, Ohio | 196 | 103 | 9 | 2 | Ogden, Utah | 15 | 11 | – | 1 |
| Columbus, Ohio | 93 | 49 | 10 | 4 | Phoenix, Ariz. | 134 | 79 | 6 | 1 |
| Dayton, Ohio | 105 | 49 | 5 | 2 | Pueblo, Colo. | 19 | 13 | – | 3 |
| Detroit, Mich. | 323 | 173 | 12 | 11 | Salt Lake City, Utah | 52 | 26 | 9 | – |
| Evansville, Ind. | 33 | 24 | 2 | 1 | Tucson, Ariz. | 64 | 34 | 2 | 2 |
| Flint, Mich. ** | 50 | 27 | 3 | 2 | | | | | |
| Fort Wayne, Ind. | 51 | 31 | – | 2 | PACIFIC | 1,543 | 943 | 58 | 21 |
| Gary, Ind. | 43 | 17 | 3 | 4 | Berkeley, Calif. | 17 | 11 | – | 1 |
| Grand Rapids, Mich. | 49 | 30 | 4 | 4 | Fresno, Calif. | 68 | 36 | 5 | 1 |
| Indianapolis, Ind. | 119 | 68 | 2 | 5 | Glendale, Calif. | 27 | 18 | – | 1 |
| Madison, Wis. | 31 | 20 | 1 | 3 | Honolulu, Hawaii | 50 | 31 | 5 | – |
| Milwaukee, Wis. | 130 | 94 | 4 | – | Long Beach, Calif. | 90 | 52 | 4 | 3 |
| Peoria, Ill. | 39 | 22 | 2 | – | Los Angeles, Calif. | 406 | 257 | 10 | 2 |
| Rockford, Ill. | 33 | 21 | 3 | 4 | Oakland, Calif. | 73 | 42 | 4 | – |
| South Bend, Ind. | 58 | 40 | 1 | 2 | Pasadena, Calif. | 41 | 26 | – | – |
| Toledo, Ohio | 107 | 72 | 6 | 2 | Portland, Oreg. | 155 | 102 | 7 | 4 |
| Youngstown, Ohio | 60 | 42 | 1 | 1 | Sacramento, Calif. | 54 | 30 | 2 | 2 |
| | | | | | San Diego, Calif. | 108 | 62 | 8 | 2 |
| WEST NORTH CENTRAL | 789 | 482 | 31 | 28 | San Francisco, Calif. | 187 | 105 | 3 | 1 |
| Des Moines, Iowa | 62 | 40 | 5 | 2 | San Jose, Calif. | 48 | 30 | 3 | – |
| Duluth, Minn. | 27 | 20 | – | 1 | Seattle, Wash. | 127 | 76 | 5 | 2 |
| Kansas City, Kans. | 26 | 10 | 2 | 2 | Spokane, Wash. | 41 | 29 | – | – |
| Kansas City, Mo. | 130 | 85 | 6 | 4 | Tacoma, Wash. | 51 | 36 | 2 | 2 |
| Lincoln, Nebr. | 32 | 20 | 1 | 2 | | | | | |
| Minneapolis, Minn. | 99 | 58 | 3 | 6 | Total | 12,430 | 7,230 | 489 | 464 |
| Omaha, Nebr. | 82 | 52 | 4 | 2 | | | | | |
| St. Louis, Mo. | 227 | 132 | 8 | 5 | Expected Number | 12,861 | 7,402 | 548 | 482 |
| St. Paul, Minn. | 74 | 46 | 2 | 1 | | | | | |
| Wichita, Kans. | 30 | 19 | – | 3 | Cumulative Total (includes reported corrections for previous weeks) | 230,458 | 135,772 | 8,743 | 11,093 |
| Las Vegas, Nev.* | 23 | 8 | – | 1 | | | | | |

*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 ending April 22, 1972

**Estimate based on average percent of divisional total

## EPIDEMIOLOGIC NOTES AND REPORTS
## TRANSFUSION-INDUCED MALARIA – Texas

In November 1971, two cases of transfusion-induced malaria occurred in two hospitals in Houston, Texas. The case reports are summarized below.

Case 1: On Sept. 20, 1971, a 43-year-old man was hospitalized in Houston, Texas, for an exploratory laparotomy. At the time of the operation, fibrosarcoma of the spleen was diagnosed, and a splenectomy was performed. He received 4 units of blood on September 26 and 27 and was discharged from the hosptial on October 6.

On November 5, the patient was hospitalized again because of recurrent chills and fever. Peripheral blood smears demonstrated *Plasmodium malariae* infection. He was treated with chloroquine and primaquine and recovered but died of his malignancy in February 1972.

Epidemiologic investigation revealed that two of the four donors had donated blood at a commercial blood bank adjacent to a military base in Texas. One of these men could not be located. The other had returned to the United States from duty in Vietnam in June 1968. Peripheral blood smears were negative for malaria, but his serum gave the following end-point dilution titers when tested by the indirect fluorescent antibody (IFA) technique: *P. vivax* 1:16, *P. falciparum* 1:256, and *P. malariae* 1:256.

Case 2: On Oct. 26, 1971, a 74-year-old woman underwent a total hip replacement in a Houston hospital. During the operation, she received 2 units of blood and on October 30 received a third unit. On November 8, she had onset of fever, and *P. vivax* was demonstrated on a peripheral blood smear on November 11. She was treated with hydroxychloroquine and recovered.

Of the three donors, one had no known history of malaria or foreign travel and had given 17 units of blood over the past 6 years without incident. The second donor had no history of malaria or foreign travel, and a peripheral blood smear and IFA serum tests were negative for malaria. The third donor had returned from Vietnam in late October 1971 and reportedly had malaria while overseas. He donated blood at the same commercial blood bank implicated in Case 1. He has been lost to follow-up.

*(Reported by Robert MacLean, M.D., Director, Communicable Disease Division, Houston City Health Department, Texas; M. S. Dickerson, M.D., Chief, Rugel F. Sowell, M.D., Medical Consultant, Communicable Disease Services, Texas State Department of Health; James Wheeler, M.D., Medical Director, Community Blood and Plasma Service, Inc., Dallas, Texas; and two EIS Officers.)*

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|---|---|
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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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