

Morbidity and Mortality



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

DATE OF RELEASE: MAY 9, 1975 - ATLANTA, GEORGIA 30333

CURRENT TRENDS

HEALTH STATUS OF VIETNAMESE REFUGEES

INTRODUCTION

As of May 7, 1975, a total of 77,576 refugees from Vietnam have arrived at U.S. staging areas on Guam and Wake Island. Guam is receiving approximately 90% of the refugees and Wake Island 10%. It is estimated that approximately 40% of refugees on Wake Island are children and about 25% on Guam are under 5 years old. With an average processing time of 5 days each, approximately 30,000 refugees have thus far arrived in the United States at 1 of 3 U.S. military installations - Camp Pendleton, California; Fort Chaffee, Arkansas; or Eglin Air Force Base, Florida. An estimated 9000, who are dependents or have sponsors in the United States, have

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completed procedures and have left for final destinations in this country.

GENERAL HEALTH ASSESSMENT

Experience to date indicates that the health problems of the Vietnamese refugees pose no significant public health risk to the United States. Medical care in all staging areas and camps is being provided by the military, while consultation on preventive medicine is being furnished by personnel from CDC. Medical surveillance systems are operating on Guam, Wake, and in U.S. camps in an attempt to identify disease

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

| DISEASE | 18th WEEK ENDING | | MEDIAN 1970-1974 | CUMULATIVE, FIRST 18 WEEKS | | |
|---|------------------|----------------|---------------------|----------------------------|---------|---------------------|
| | May 3, 1975 | May 4, 1974 | | 1975 | 1974 | MEDIAN 1970-1974 |
| Aseptic meningitis | 30 | 47 | 47 | 636 | 617 | 617 |
| Brucellosis | 8 | 3 | 2 | 57 | 45 | 45 |
| Chickenpox | 5,274 | 4,324 | --- | 76,375 | 67,599 | --- |
| Diphtheria | 7 | 5 | 5 | 163 | 94 | 74 |
| Encephalitis | Primary | 21 | 20 | 227 | 304 | 345 |
| | Post-Infectious | 7 | 7 | 95 | 76 | 94 |
| Hepatitis, Viral | Type B | 221 | 166 | 3,792 | 3,111 | 3,004 |
| | Type A | 720 | 840 | 12,507 | 15,333 | --- |
| | Type unspecified | 170 | 226 | 1,080 | 3,068 | 19,608 |
| Malaria | 5 | 6 | 12 | 90 | 57 | 460 |
| Measles (rubeola) | 1,166 | 1,084 | 1,252 | 11,162 | 11,902 | 16,597 |
| Meningococcal infections, total | 28 | 27 | 41 | 600 | 601 | 618 |
| Civilian | 28 | 26 | 39 | 584 | 583 | 602 |
| Military | --- | 1 | 1 | 16 | 18 | 27 |
| Mumps | 1,983 | 1,838 | 2,389 | 29,171 | 29,681 | 38,709 |
| Pertussis | 26 | 18 | --- | 423 | 436 | --- |
| Rubella (German measles) | 701 | 448 | 1,631 | 8,005 | 5,823 | 17,812 |
| Tetanus | 2 | 3 | 3 | 23 | 18 | 27 |
| Tuberculosis | 768 | 615 | --- | 10,841 | 10,249 | --- |
| Tularemia | 4 | 2 | 2 | 24 | 33 | 31 |
| Typhoid fever | 9 | 3 | 5 | 84 | 107 | 90 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 15 | 12 | 6 | 36 | 39 | 21 |
| Veneral Diseases: | | | | | | |
| Gonorrhea | | | | | | |
| Civilian | 17,768 | 16,755 | --- | 320,944 | 292,523 | --- |
| Military | 551 | 574 | --- | 9,967 | 9,626 | --- |
| Syphilis, primary and secondary | | | | | | |
| Civilian | 523 | 487 | --- | 9,100 | 8,489 | --- |
| Military | 10 | 8 | --- | 122 | 156 | --- |
| Rabies in animals | 52 | 81 | 81 | 742 | 1,046 | 1,261 |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|--------------------------------------|------|---------------------------------|------|
| Anthrax: | --- | Poliomyelitis, total: | 2 |
| Botulism: | 9 | Paralytic: | 1 |
| Congenital rubella syndrome: Tenn. 1 | 8 | Psittacosis: | 12 |
| Leprosy: *Calif. 3, Ore. 1 | 78 | Rabies in man: | 1 |
| Leptospirosis: | 12 | Trichinosis: Calif. 1, N.J. 2 | 39 |
| Plague: | 1 | Typhus, murine: | 6 |

*Delayed reports: Leprosy: Guam 1

HEALTH STATUS — Continued

problems if they should arise. General health conditions have been good, and no quarantinable diseases have been detected. Smallpox and yellow fever do not exist in Vietnam, and neither cholera nor plague has been seen in the present group.

Hospitalization rates for refugees arriving on Guam and Wake have been approximately 3 hospitalizations per 1000 refugees. The principle reasons for hospitalization have been dehydration, gastroenteritis, pneumonia, obstetrical needs, fractures, and measles. Hospitalization rates for refugees entering the U.S. camps have also been about 3 per 1000 refugees in the first week of operation. Sample surveys have shown that approximately 2-3% of persons seek out-patient consultation per day, usually for skin infections, conjunctivitis, or diarrhea. Of the 77,576 persons who have been in 1 or more of the camps, only 2 cases of malaria (1 *Plasmodium vivax*, 1 *P. falciparum*) have been reported to date. One case of typhoid fever has been documented, and about 12 suspect cases of tuberculosis have been detected. No cases of active Hansen's disease have been reported; however, 5 cases of hepatitis and 1 case of diphtheria have been reported. Five cases of a syndrome clinically compatible with Dengue have been diagnosed in arriving refugees. Laboratory specimens have been collected and confirmation is pending. Appropriate control measures, however, have been instituted. Seventy known cases of measles in children have been identified; these children, however, were exposed before arriving in Guam or Wake.

IMMUNIZATION PROGRAMS

Active immunization campaigns are underway in Guam and Wake to give measles vaccine and polio vaccine to all children from 1-5 years of age. In addition, wherever possible, the first dose of DPT is being given, and the majority of children are receiving rubella vaccine with the measles vaccine. Over 90% of children reaching the 3 U.S. bases are found to have been immunized. Those without immunization records receive vaccine after arrival.

DOMESTIC HEALTH PROCEDURES

When the refugees arrive at the first U.S. port-of-entry, their names and addresses are obtained and forwarded to the State health departments where they intend to reside. When visa medical clearance examinations, which include chest X-rays and serologic tests for syphilis, are completed before refugees depart for their final destination, health departments are notified of the status of refugees requiring follow-up. If obtaining the clearance examination will cause extended stays in the camps and the refugees are dependents of U.S. citizens or sponsored aliens, they are released, and the Immigration and Naturalization Service arranges for them to receive this examination at their city of destination.

Military personnel are placing emphasis on maintaining safe water and food supplies, adequate waste disposal and vector control.

MALARIA ASSESSMENT

Among the medical problems which may emerge in relation to the resettlement of Vietnamese refugees in the United States is the possible occurrence of malaria cases. Physicians should be mindful of this possibility when attending persons from Southeast Asia with fever. However, as mentioned above,

of the 77,576 persons seen, only 2 cases of malaria have been reported.

TRANSMISSION POTENTIAL

Although anopheline mosquitoes are still found in many areas of the United States and the potential for malaria transmission exists, experience over the past 30 years shows the likelihood to be small. Despite the return of hundreds of thousands of U.S. servicemen infected with malaria following World War II, the Korean War, and the Vietnam conflict, only a few episodes of malaria transmission in the United States have resulted. These have been sporadic and of limited epidemic potential. However, a limited potential does exist for the establishment of foci of introduced malaria, and early detection and treatment of cases will serve to minimize this potential.

Recent experience with the treatment of malaria in Southeast Asia has led to the specific guidelines discussed below.

CASE OCCURRENCE

The 2 types of malaria which might occur are *P. falciparum* malaria and *P. vivax* malaria. These species differ in their potential for recurrence and in the method of treatment. *P. falciparum*, sometimes called "malignant tertian" malaria, often causes severe clinical disease but is curable with properly selected drugs. Unfortunately, a high proportion of *P. falciparum* infections from Southeast Asia are resistant to the commonly used antimalaria drugs, and one of several additional drug combinations is required. *P. vivax* generally causes a less severe disease, and the clinical attack can be quickly terminated with the usual antimalaria therapy. This species, however, is likely to relapse after treatment with a therapeutic (schizontocidal) drug, usually within a year but possibly as long as 2½ to 3 years after such treatment. Such relapses can be prevented by a course of curative therapy (described below). If cases were detected in the United States, the majority seen would be *P. vivax*.

Diagnosis

Definitive diagnosis of malaria can be accomplished only through the careful microscopic examination of thick blood films. Such blood films should be prepared from all persons presenting with a febrile illness and should be promptly stained and examined, noting the presence and species of parasite and if possible the approximate density of parasites (e.g. numbers per 100 WBC). Signs and symptoms other than fever would suggest the possibility of malaria and would also dictate blood film diagnosis. These signs and symptoms would include anemia, splenomegaly, chills, headache, backache, malaise, etc. Preparing blood films for at least 2 consecutive days aids in ruling out malaria infection. The presence of detectable parasitemias almost always accompanies a clinical malaria attack. On the other hand, parasitemias may occur in the absence of significant symptoms.

Treatment**Presumptive treatment**

If there is apt to be a significant delay in receipt of the blood film diagnosis and if the presence of severe illness suggests a malaria attack, administration of a single dose of 600

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**TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING MAY 3, 1975 AND MAY 4, 1974 (18th WEEK)**

| AREA | ASEPTIC MENINGITIS | BRUCEL- LOSIS | CHICKEN- POX | DIPHTHERIA | | ENCEPHALITIS | | | HEPATITIS, VIRAL | | | MALARIA | |
|----------------------|-----------------------|------------------|-----------------|------------|-----|--|------|----------------------|------------------|--------|---------------------|---------|----|
| | | | | | | Primary: Arthropod- borne and Unspecified | | Post In- fectious | Type B | Type A | Type Unspecified | | |
| | | | | | | 1975 | 1974 | 1975 | 1975 | 1975 | 1975 | | |
| UNITED STATES | 30 | 8 | 5,274 | 7 | 163 | 9 | 21 | 7 | 221 | 720 | 170 | 5 | 90 |
| NEW ENGLAND | - | - | 452 | - | - | - | 3 | - | 5 | 18 | 9 | - | 4 |
| Maine * | - | - | 16 | - | - | - | - | - | - | - | - | - | 1 |
| New Hampshire * | - | - | 7 | - | - | - | - | - | - | 3 | - | - | - |
| Vermont | - | - | 6 | - | - | - | - | - | - | - | - | - | - |
| Massachusetts | - | - | 118 | - | - | - | 1 | - | 4 | 7 | 8 | - | 2 |
| Rhode Island | - | - | 155 | - | - | - | 2 | - | 1 | 6 | - | - | - |
| Connecticut | - | - | 150 | - | - | - | - | - | - | 2 | 1 | - | 1 |
| MIDDLE ATLANTIC | 4 | - | 408 | - | - | 1 | 4 | 1 | 32 | 76 | 27 | 4 | 15 |
| Upstate New York | 1 | - | 162 | - | - | - | 2 | - | 7 | 28 | 7 | - | 3 |
| New York City | - | - | 236 | - | - | - | - | - | 4 | 9 | - | 3 | 7 |
| New Jersey | - | - | NN | - | - | - | - | - | 6 | 22 | 18 | - | 3 |
| Pennsylvania | 3 | - | 10 | - | - | 1 | 2 | 1 | 15 | 17 | 2 | 1 | 2 |
| EAST NORTH CENTRAL | 3 | - | 2,042 | - | 2 | 4 | 3 | - | 29 | 135 | 15 | - | 1 |
| Ohio * | - | - | 335 | - | - | 3 | 1 | - | 7 | 38 | - | - | - |
| Indiana | - | - | 153 | - | - | - | - | - | - | 11 | - | - | - |
| Illinois | - | - | - | - | 1 | 1 | - | - | 7 | 35 | 12 | - | 1 |
| Michigan | 3 | - | 906 | - | 1 | - | 1 | - | 9 | 33 | 3 | - | - |
| Wisconsin | - | - | 648 | - | - | - | 1 | - | 6 | 18 | - | - | - |
| WEST NORTH CENTRAL | 4 | 2 | 523 | - | - | 3 | 4 | - | 35 | 34 | 7 | - | 3 |
| Minnesota | 1 | 1 | 9 | - | - | 3 | - | - | 11 | 12 | - | - | 1 |
| Iowa | - | 1 | 329 | - | - | - | 1 | - | 6 | 1 | 1 | - | - |
| Missouri | 3 | - | 129 | - | - | - | 1 | - | 5 | 2 | 3 | - | 2 |
| North Dakota | - | - | 17 | - | - | - | - | - | 1 | 1 | - | - | - |
| South Dakota | - | - | - | - | - | - | - | - | 2 | - | - | - | - |
| Nebraska | - | - | 9 | - | - | - | - | - | - | 4 | 3 | - | - |
| Kansas | - | - | 30 | - | - | - | 2 | - | 10 | 14 | - | - | - |
| SOUTH ATLANTIC | 6 | 5 | 512 | - | - | 1 | 1 | - | 18 | 104 | 23 | - | 11 |
| Delaware | - | - | 10 | - | - | - | - | - | - | - | - | - | - |
| Maryland | - | - | 37 | - | - | 1 | - | - | 5 | 12 | 2 | - | 1 |
| District of Columbia | - | - | 31 | - | - | - | - | - | 1 | 1 | - | - | - |
| Virginia * | - | 5 | 91 | - | - | - | - | - | 6 | 7 | 5 | - | 4 |
| West Virginia | - | - | 187 | - | - | - | - | - | - | 3 | - | - | 1 |
| North Carolina | - | - | NN | - | - | - | - | - | 1 | 5 | - | - | 3 |
| South Carolina | - | - | 23 | - | - | - | - | - | 2 | 9 | 4 | - | - |
| Georgia | - | - | 5 | - | - | - | - | - | - | 19 | - | - | - |
| Florida | 6 | - | 128 | - | - | - | 1 | - | 3 | 48 | 12 | - | 2 |
| EAST SOUTH CENTRAL | 1 | 1 | 263 | - | - | - | 1 | 1 | 14 | 56 | 2 | - | 8 |
| Kentucky | - | - | 135 | - | - | - | - | - | - | 14 | - | - | 4 |
| Tennessee | 1 | 1 | NN | - | - | - | - | - | 7 | 30 | - | - | - |
| Alabama | - | - | 26 | - | - | - | - | 1 | 7 | 10 | 2 | - | 3 |
| Mississippi | - | - | 102 | - | - | - | 1 | - | - | 2 | - | - | 1 |
| WEST SOUTH CENTRAL | 8 | - | 636 | - | 1 | - | 2 | - | 16 | 139 | 11 | - | 9 |
| Arkansas | - | - | 7 | - | - | - | - | - | 2 | 11 | 1 | - | 1 |
| Louisiana | 1 | - | NN | - | - | - | - | - | 6 | 11 | 3 | - | - |
| Oklahoma | - | - | 49 | - | - | - | 1 | - | 2 | 10 | 2 | - | 1 |
| Texas | 7 | - | 580 | - | 1 | - | 1 | - | 6 | 107 | 5 | - | 7 |
| MOUNTAIN | - | - | 95 | - | 14 | - | - | - | 8 | 29 | 38 | - | 10 |
| Montana | - | - | 30 | - | - | - | - | - | - | 4 | - | - | - |
| Idaho * | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - |
| Colorado | - | - | 47 | - | - | - | - | - | 3 | 7 | 23 | - | 8 |
| New Mexico | - | - | 8 | - | 1 | - | - | - | - | 4 | 3 | - | - |
| Arizona | - | - | - | - | 13 | - | - | - | 3 | 8 | 2 | - | 2 |
| Utah | - | - | - | - | - | - | - | - | 2 | 5 | 8 | - | - |
| Nevada * | - | - | 8 | - | - | - | - | - | - | - | 2 | - | - |
| PACIFIC | 4 | - | 343 | 7 | 146 | - | 3 | 5 | 64 | 129 | 38 | 1 | 29 |
| Washington | 2 | - | 305 | 5 | 141 | - | - | 1 | 1 | 15 | 13 | - | 2 |
| Oregon | 1 | - | 3 | - | - | - | - | - | 1 | 5 | 6 | - | - |
| California * | - | - | - | - | 2 | - | 3 | 4 | 59 | 87 | 16 | 1 | 25 |
| Alaska | 1 | - | 9 | 2 | 3 | - | - | - | 2 | 15 | 2 | - | - |
| Hawaii | - | - | 26 | - | - | - | - | - | 1 | 7 | 1 | - | 2 |
| Guam * | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Puerto Rico | - | - | 31 | - | - | - | - | - | 1 | 9 | - | - | 1 |
| Virgin Islands | - | - | 13 | - | - | - | - | - | - | - | 1 | - | - |

*Delayed reports: Aseptic Meningitis: Ohio 1
Chickenpox: Me. 36, Ida. 65, Calif. 2, Guam 28

Hepatitis B: Guam 2
Hepatitis A: N.H. 1, Nev. 7, Guam 12
Hepatitis unspecified: Va. delete 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MAY 3, 1975 AND MAY 4, 1974 (18th WEEK) - Continued

| AREA | MEASLES (Rubeola) | | | MENINGOCOCCAL INFECTIONS, TOTAL | | | MUMPS | | PERTUSSIS | RUBELLA | | TETANUS |
|----------------------|-------------------|------------|--------|---------------------------------|------------|------|-------|-----------|-----------|---------|-----------|-----------|
| | 1975 | Cumulative | | 1975 | Cumulative | | 1975 | Cum. 1975 | 1975 | 1975 | Cum. 1975 | Cum. 1975 |
| | | 1975 | 1974 | | 1975 | 1974 | | | | | | |
| UNITED STATES | 1,166 | 11,162 | 11,902 | 28 | 600 | 601 | 1,983 | 29,171 | 26 | 701 | 8,005 | 23 |
| NEW ENGLAND | 12 | 105 | 574 | 3 | 35 | 36 | 45 | 1,011 | - | 125 | 1,335 | - |
| Maine * | 1 | 6 | 25 | - | 4 | 1 | - | 58 | - | - | 21 | - |
| New Hampshire | - | 19 | 205 | - | 1 | 7 | - | 58 | - | 2 | 246 | - |
| Vermont | 1 | 12 | 42 | - | - | 1 | - | 5 | - | - | 24 | - |
| Massachusetts * | 10 | 37 | 185 | 2 | 11 | 10 | 3 | 123 | - | 116 | 778 | - |
| Rhode Island | - | 1 | 57 | - | 3 | 6 | 21 | 417 | - | - | 13 | - |
| Connecticut | - | 30 | 60 | 1 | 16 | 11 | 21 | 350 | - | 7 | 253 | - |
| MIDDLE ATLANTIC | 104 | 657 | 4,721 | 4 | 51 | 75 | 108 | 1,381 | 5 | 93 | 895 | 3 |
| Upstate New York | 30 | 182 | 129 | 2 | 20 | 33 | 52 | 601 | 1 | 8 | 78 | - |
| New York City | 9 | 76 | 259 | - | 9 | 12 | 36 | 315 | 1 | 10 | 87 | 1 |
| New Jersey | 33 | 226 | 3,814 | - | 4 | 24 | 4 | 217 | - | 63 | 576 | 2 |
| Pennsylvania * | 32 | 173 | 519 | 2 | 18 | 6 | 16 | 248 | 3 | 12 | 154 | - |
| EAST NORTH CENTRAL | 357 | 3,411 | 4,576 | 3 | 92 | 70 | 748 | 12,522 | 4 | 254 | 1,922 | - |
| Ohio | 10 | 68 | 2,051 | - | 17 | 23 | 82 | 1,187 | - | 37 | 172 | - |
| Indiana | 43 | 281 | 137 | 1 | 5 | 7 | 106 | 1,451 | - | 78 | 336 | - |
| Illinois | 66 | 716 | 852 | - | 17 | 9 | 81 | 1,294 | 3 | 11 | 156 | - |
| Michigan | 200 | 1,801 | 1,283 | 1 | 43 | 20 | 320 | 5,789 | - | 50 | 852 | - |
| Wisconsin | 38 | 545 | 253 | 1 | 10 | 11 | 159 | 2,801 | 1 | 78 | 406 | - |
| WEST NORTH CENTRAL | 319 | 3,272 | 425 | 1 | 33 | 45 | 120 | 2,273 | 1 | 39 | 780 | 1 |
| Minnesota | - | - | 76 | 1 | 7 | 15 | - | 29 | - | 1 | 19 | - |
| Iowa | 20 | 292 | 13 | - | 5 | 9 | 47 | 640 | - | - | 9 | - |
| Missouri * | 7 | 138 | 146 | - | 17 | 10 | 13 | 649 | 1 | 14 | 347 | 1 |
| North Dakota | 160 | 749 | 24 | - | - | 1 | 43 | 358 | - | - | 47 | - |
| South Dakota | 27 | 288 | 24 | - | - | 2 | - | 4 | - | 1 | 4 | - |
| Nebraska | 9 | 250 | 2 | - | 1 | 1 | 9 | 27 | - | 1 | 7 | - |
| Kansas | 96 | 1,555 | 140 | - | 3 | 7 | 8 | 566 | - | 22 | 347 | - |
| SOUTH ATLANTIC | 10 | 136 | 337 | 3 | 119 | 115 | 119 | 1,889 | - | 28 | 489 | 9 |
| Delaware | - | 4 | 5 | - | 4 | 3 | 2 | 7 | - | 3 | 12 | - |
| Maryland | - | - | 21 | 1 | 11 | 13 | 4 | 55 | - | - | 1 | - |
| District of Columbia | - | - | 2 | - | 4 | - | 10 | 48 | - | - | - | - |
| Virginia | 1 | 13 | 16 | - | 12 | 18 | 36 | 430 | - | - | 25 | - |
| West Virginia | 9 | 98 | 91 | - | 4 | 4 | 31 | 755 | - | 3 | 136 | - |
| North Carolina | - | - | 2 | 1 | 24 | 26 | - | 47 | - | 8 | 19 | 3 |
| South Carolina | - | 1 | 31 | 1 | 14 | 11 | - | 27 | - | 7 | 239 | 2 |
| Georgia | - | 1 | 1 | - | 8 | 5 | - | 2 | - | - | - | - |
| Florida | - | 19 | 168 | - | 38 | 35 | 36 | 518 | - | 7 | 57 | 4 |
| EAST SOUTH CENTRAL | 11 | 171 | 76 | 3 | 87 | 66 | 212 | 2,542 | 5 | 41 | 653 | 1 |
| Kentucky | 1 | 67 | 59 | 2 | 37 | 31 | 100 | 995 | 5 | 8 | 157 | 1 |
| Tennessee | 8 | 95 | 3 | 1 | 31 | 29 | 72 | 1,164 | - | 30 | 474 | - |
| Alabama | - | 3 | 2 | - | 11 | 6 | 19 | 237 | - | 2 | 15 | - |
| Mississippi | 2 | 6 | 12 | - | 8 | - | 21 | 146 | - | 1 | 7 | - |
| WEST SOUTH CENTRAL | 10 | 121 | 117 | 5 | 96 | 113 | 211 | 2,594 | 10 | 23 | 468 | 5 |
| Arkansas | - | - | 4 | - | 5 | 9 | - | 22 | 2 | - | - | - |
| Louisiana * | - | - | 11 | 1 | 19 | 20 | 9 | 253 | - | - | 174 | 2 |
| Oklahoma | 2 | 20 | 13 | - | 8 | 12 | 5 | 85 | - | 1 | 67 | 1 |
| Texas | 8 | 101 | 89 | 4 | 64 | 72 | 197 | 2,234 | 8 | 22 | 227 | 2 |
| MOUNTAIN | 72 | 792 | 493 | - | 18 | 16 | 43 | 436 | - | 9 | 328 | - |
| Montana | 1 | 7 | 236 | - | 3 | 1 | 3 | 8 | - | 2 | 208 | - |
| Idaho | - | 4 | 47 | - | 2 | 2 | - | 5 | - | - | 23 | - |
| Wyoming | - | - | - | - | - | 2 | - | - | - | - | - | - |
| Colorado | 68 | 747 | 25 | - | 7 | 2 | 40 | 295 | - | 7 | 74 | - |
| New Mexico | - | 2 | 44 | - | 3 | 2 | - | 16 | - | - | 9 | - |
| Arizona | - | 14 | 10 | - | 1 | 4 | - | - | - | - | 2 | - |
| Utah | 1 | 3 | - | - | 2 | 1 | - | 59 | - | - | 9 | - |
| Nevada | 2 | 15 | 131 | - | - | 2 | - | 53 | - | - | 3 | - |
| PACIFIC | 271 | 2,497 | 583 | 6 | 69 | 65 | 377 | 4,523 | 1 | 89 | 1,135 | 4 |
| Washington | 12 | 82 | 40 | - | 10 | 7 | 190 | 2,418 | 1 | 15 | 185 | - |
| Oregon | 2 | 93 | - | 2 | 2 | 8 | 25 | 310 | - | 4 | 92 | - |
| California | 256 | 2,278 | 492 | 4 | 56 | 45 | 161 | 1,749 | - | 69 | 850 | 4 |
| Alaska | - | - | - | - | - | 2 | 1 | 35 | - | - | - | - |
| Hawaii | 1 | 44 | 51 | - | 1 | 3 | - | 11 | - | 1 | 8 | - |
| Guam * | - | 6 | 6 | - | 1 | 1 | - | 16 | - | - | 3 | - |
| Puerto Rico | 16 | 324 | 318 | - | 1 | 1 | 40 | 411 | 1 | - | 14 | 9 |
| Virgin Islands | 1 | 5 | 16 | - | - | - | - | 98 | - | - | 2 | 2 |

*Delayed reports: Measles: Mass. delete 4, Mo. delete 2, Guam 1
Meningococcal infections: Pa. delete 1

Mumps: Me. 7, La. delete 1, Guam 2
Pertussis: Pa. 19
Rubella: Me. 3, Mo. 3, Guam 2

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MAY 3, 1975 AND MAY 4, 1974 (18th WEEK) - Continued

| AREA | TUBERCULOSIS | | TULA-REMI | TYPHOID FEVER | | TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever) | | VENEREAL DISEASES (Civilian Cases Only) | | | | | RABIES IN ANIMALS | |
|----------------------|--------------|-----------|-----------|---------------|-----------|--|-----------|---|---------|------------------------|------------|-----------|-------------------|-----|
| | 1975 | Cum. 1975 | Cum. 1975 | 1975 | Cum. 1975 | 1975 | Cum. 1975 | GONORRHEA | | SYPHILIS (Pri. & Sec.) | | Cum. 1975 | | |
| | | | | | | | | 1975 | 1974 | 1975 | Cumulative | | | |
| | | | | | | | | | | | 1975 | | 1974 | |
| UNITED STATES | 768 | 10,841 | 24 | 9 | 84 | 15 | 36 | 17,768 | 320,944 | 292,523 | 523 | 9,100 | 8,489 | 742 |
| NEW ENGLAND | 34 | 396 | - | - | 8 | - | - | 476 | 8,789 | 7,382 | 17 | 329 | 314 | 17 |
| Maine * | 4 | 27 | - | - | - | - | - | 41 | 554 | 553 | 2 | 8 | 12 | 15 |
| New Hampshire * | - | 16 | - | - | - | - | - | 7 | 263 | 214 | - | 10 | 5 | - |
| Vermont | - | 6 | - | - | - | - | - | 5 | 183 | 209 | - | 4 | 1 | - |
| Massachusetts | 22 | 213 | - | - | 4 | - | - | 234 | 4,152 | 3,488 | 11 | 214 | 225 | 1 |
| Rhode Island | - | 46 | - | - | - | - | - | 58 | 683 | 601 | - | 4 | 6 | - |
| Connecticut | 8 | 88 | - | - | 4 | - | - | 131 | 2,954 | 2,317 | 4 | 89 | 65 | 1 |
| MIDDLE ATLANTIC | 143 | 1,929 | 2 | 2 | 15 | - | 1 | 1,941 | 38,413 | 35,977 | 97 | 1,639 | 1,844 | 18 |
| Upstate New York | 25 | 279 | 1 | - | 3 | - | 1 | 357 | 6,888 | 6,734 | 12 | 160 | 185 | 15 |
| New York City | 48 | 816 | - | 1 | 6 | - | - | 684 | 18,118 | 15,322 | 59 | 969 | 1,054 | - |
| New Jersey | 37 | 363 | 1 | 1 | 3 | - | - | 321 | 4,855 | 5,245 | 13 | 264 | 303 | - |
| Pennsylvania * | 33 | 471 | - | - | 3 | - | - | 579 | 9,552 | 8,676 | 13 | 246 | 302 | 3 |
| EAST NORTH CENTRAL | 95 | 1,544 | - | 1 | 9 | - | 1 | 3,509 | 52,896 | 46,438 | 40 | 730 | 707 | 26 |
| Ohio * | 29 | 464 | - | - | 1 | - | 1 | 1,056 | 13,886 | 12,614 | 10 | 158 | 94 | 4 |
| Indiana | 7 | 197 | - | - | - | - | - | 784 | 4,937 | 4,231 | 7 | 50 | 65 | - |
| Illinois | 22 | 395 | - | 1 | 7 | - | - | 843 | 18,319 | 14,671 | 18 | 361 | 368 | 8 |
| Michigan * | 32 | 453 | - | - | 1 | - | - | 530 | 10,502 | 10,869 | 5 | 123 | 145 | 1 |
| Wisconsin | 5 | 35 | - | - | - | - | - | 296 | 5,252 | 4,053 | - | 38 | 35 | 13 |
| WEST NORTH CENTRAL | 16 | 388 | 6 | - | 4 | 1 | 1 | 1,080 | 15,904 | 14,944 | 73 | 267 | 201 | 155 |
| Minnesota | 3 | 52 | - | - | 1 | - | - | 139 | 3,275 | 3,239 | 7 | 34 | 24 | 47 |
| Iowa | - | 39 | 1 | - | - | - | - | 120 | 2,137 | 2,101 | - | 9 | 14 | 30 |
| Missouri | 6 | 202 | 3 | - | 3 | 1 | 1 | 484 | 5,774 | 4,860 | 65 | 179 | 133 | 14 |
| North Dakota | - | 3 | - | - | - | - | - | 18 | 241 | 242 | - | 3 | 2 | 42 |
| South Dakota | 1 | 17 | - | - | - | - | - | 36 | 641 | 664 | - | 3 | 2 | 1 |
| Nebraska | 2 | 15 | - | - | - | - | - | 176 | 1,415 | 1,216 | - | 4 | 3 | 2 |
| Kansas | 4 | 60 | 2 | - | - | - | - | 107 | 2,421 | 2,622 | 1 | 35 | 23 | 19 |
| SOUTH ATLANTIC | 183 | 2,481 | 7 | 1 | 6 | 4 | 15 | 4,404 | 79,229 | 73,509 | 127 | 2,841 | 2,671 | 120 |
| Delaware | 7 | 58 | - | - | - | - | - | 62 | 1,130 | 1,056 | 7 | 35 | 27 | - |
| Maryland | 33 | 408 | - | 1 | 1 | - | - | 469 | 8,818 | 6,886 | 4 | 214 | 278 | - |
| District of Columbia | 12 | 135 | - | - | - | - | - | 307 | 4,884 | 6,990 | 17 | 227 | 228 | - |
| Virginia | 28 | 295 | 3 | - | 2 | 1 | 4 | 545 | 8,173 | 6,642 | 15 | 227 | 303 | 65 |
| West Virginia * | 4 | 95 | - | - | - | - | - | 62 | 1,003 | 842 | 1 | 10 | 8 | 2 |
| North Carolina * | 26 | 379 | - | - | 2 | 1 | 9 | 538 | 11,419 | 9,930 | 3 | 347 | 304 | 1 |
| South Carolina | 12 | 144 | 2 | - | 1 | 2 | 2 | 386 | 7,409 | 7,653 | 4 | 204 | 230 | 5 |
| Georgia | 19 | 346 | 2 | - | - | - | - | 963 | 14,269 | 13,470 | 11 | 390 | 413 | 39 |
| Florida | 42 | 621 | - | - | - | - | - | 1,072 | 22,124 | 20,040 | 65 | 1,187 | 880 | 8 |
| EAST SOUTH CENTRAL | 65 | 927 | 4 | 1 | 6 | 3 | 5 | 1,279 | 26,311 | 25,023 | 7 | 408 | 432 | 80 |
| Kentucky | 12 | 162 | 1 | - | 4 | - | 1 | 192 | 3,333 | 3,089 | 1 | 60 | 98 | 61 |
| Tennessee | 28 | 363 | 3 | 1 | 1 | 3 | 3 | 521 | 10,509 | 9,794 | 4 | 145 | 168 | 9 |
| Alabama | 12 | 277 | - | - | - | - | 1 | 201 | 7,098 | 7,002 | - | 115 | 83 | 10 |
| Mississippi | 13 | 125 | - | - | 1 | - | - | 365 | 5,371 | 5,138 | 2 | 88 | 83 | - |
| WEST SOUTH CENTRAL | 77 | 1,227 | 3 | - | 2 | 7 | 13 | 1,634 | 39,995 | 38,606 | 43 | 802 | 767 | 213 |
| Arkansas | 7 | 166 | 3 | - | - | - | 2 | 101 | 4,203 | 4,148 | - | 22 | 41 | 23 |
| Louisiana * | 6 | 175 | - | - | - | - | - | 270 | 7,511 | 8,304 | 10 | 190 | 226 | 3 |
| Oklahoma | 5 | 115 | - | - | - | 7 | 11 | 236 | 3,764 | 3,058 | 2 | 37 | 51 | 50 |
| Texas | 59 | 771 | - | - | 2 | - | - | 1,027 | 24,517 | 23,096 | 31 | 553 | 449 | 137 |
| MOUNTAIN | 20 | 293 | 1 | - | 3 | - | - | 715 | 12,627 | 10,673 | 24 | 236 | 198 | 45 |
| Montana | 1 | 10 | - | - | - | - | - | 45 | 708 | 615 | - | 3 | 1 | 24 |
| Idaho | - | 7 | - | - | - | - | - | 44 | 670 | 638 | 2 | 7 | 1 | - |
| Wyoming | 1 | 8 | 1 | - | 1 | - | - | 22 | 315 | 248 | - | 2 | 2 | 4 |
| Colorado | 6 | 54 | - | - | - | - | - | 148 | 3,250 | 2,981 | 2 | 47 | 45 | - |
| New Mexico | 2 | 44 | - | - | 1 | - | - | 176 | 2,245 | 1,472 | 15 | 69 | 34 | 12 |
| Arizona | 8 | 135 | - | - | 1 | - | - | 151 | 3,327 | 2,972 | 4 | 80 | 83 | 5 |
| Utah | - | 8 | - | - | - | - | - | 49 | 756 | 548 | - | 4 | 5 | - |
| Nevada * | 2 | 27 | - | - | - | - | - | 80 | 1,356 | 1,199 | 1 | 24 | 27 | - |
| PACIFIC | 135 | 1,656 | 1 | 4 | 31 | - | - | 2,730 | 46,780 | 39,971 | 95 | 1,848 | 1,355 | 68 |
| Washington | 9 | 126 | 1 | - | 3 | - | - | 236 | 4,317 | 3,876 | - | 69 | 45 | - |
| Oregon | 4 | 63 | - | - | - | - | - | 68 | 3,581 | 3,486 | 3 | 41 | 30 | - |
| California | 114 | 1,287 | - | 4 | 28 | - | - | 2,365 | 36,943 | 30,996 | 92 | 1,721 | 1,266 | 65 |
| Alaska | - | 11 | - | - | - | - | - | 22 | 1,184 | 846 | - | 1 | - | 3 |
| Hawaii | 8 | 169 | - | - | - | - | - | 39 | 755 | 767 | - | 16 | 14 | - |
| Guam * | - | 23 | - | - | - | - | - | - | 142 | --- | - | 2 | --- | - |
| Puerto Rico | 6 | 178 | - | - | - | - | - | 51 | 1,068 | 1,114 | 14 | 261 | 322 | 24 |
| Virgin Islands | - | 3 | - | - | - | - | - | 1 | 53 | 262 | - | 11 | 23 | - |

*Delayed reports: Tuberculosis: Me. delete 1, N.H. 1, Ohio delete 1, Mich. delete 1, W. Va. delete 1, N.C. delete 1
 Typhoid: Pa. delete 1
 Gonorrhea: La. delete 2, Nev. 52, Guam 14
 Syphilis: La. delete 3, Nev. 2

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING MAY 3, 1975

(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 | 45-64 years | 25-44 years | Under 1 year | | | All Ages | 65 years and over | 45-64 years | 25-44 years | Under 1 year | |
| NEW ENGLAND | 631 | 379 | 173 | 28 | 28 | 33 | SOUTH ATLANTIC | 1,198 | 633 | 371 | 82 | 51 | 33 |
| Boston, Mass. | 213 | 121 | 58 | 13 | 11 | 8 | Atlanta, Ga. | 153 | 71 | 52 | 15 | 4 | 1 |
| Bridgeport, Conn. | 51 | 37 | 10 | 1 | 2 | 4 | Baltimore, Md. | 235 | 141 | 56 | 16 | 11 | 1 |
| Cambridge, Mass. | 16 | 9 | 6 | - | 1 | 1 | Charlotte, N. C. | 68 | 27 | 25 | 5 | 4 | 1 |
| Fall River, Mass. | 18 | 11 | 5 | 1 | - | - | Jacksonville, Fla. | 92 | 52 | 27 | 6 | 3 | - |
| Hartford, Conn. | 59 | 29 | 19 | 5 | 4 | 4 | Miami, Fla. | 107 | 57 | 34 | 8 | 5 | 6 |
| Lowell, Mass. | 24 | 15 | 7 | 1 | - | 1 | Norfolk, Va. | 65 | 34 | 18 | 6 | 4 | 5 |
| Lynn, Mass. | 20 | 15 | 3 | 1 | 1 | - | Richmond, Va. | 75 | 35 | 26 | 6 | 4 | 4 |
| New Bedford, Mass. | 23 | 19 | 2 | 2 | - | - | Savannah, Ga. | 46 | 20 | 18 | 6 | - | 3 |
| New Haven, Conn. | 25 | 13 | 11 | - | - | 1 | St. Petersburg, Fla. | 79 | 65 | 12 | 1 | - | 1 |
| Providence, R. I. | 44 | 25 | 10 | 3 | 3 | 4 | Tampa, Fla. | 80 | 45 | 22 | 6 | 3 | 5 |
| Somerville, Mass. | 8 | 4 | 4 | - | - | 1 | Washington, D. C. | 175 | 83 | 64 | 6 | 11 | 3 |
| Springfield, Mass. | 53 | 35 | 14 | - | 2 | 3 | Wilmington, Del. | 23 | 3 | 17 | 1 | 2 | 3 |
| Waterbury, Conn. | 27 | 15 | 10 | - | 1 | 1 | EAST SOUTH CENTRAL | 656 | 356 | 196 | 49 | 22 | 27 |
| Worcester, Mass. | 50 | 31 | 14 | 1 | 3 | 5 | Birmingham, Ala. | 114 | 65 | 33 | 6 | - | 3 |
| MIDDLE ATLANTIC | 2,925 | 1,839 | 732 | 165 | 95 | 124 | Chattanooga, Tenn. | 44 | 23 | 13 | 4 | 1 | 5 |
| Albany, N. Y. | 44 | 28 | 8 | 4 | 1 | 2 | Knoxville, Tenn. | 42 | 27 | 9 | 2 | 2 | 1 |
| Allentown, Pa. | 26 | 18 | 5 | 1 | 2 | 2 | Louisville, Ky. | 123 | 74 | 33 | 7 | 4 | 14 |
| Buffalo, N. Y. | 121 | 76 | 31 | 4 | 3 | 9 | Memphis, Tenn. | 130 | 65 | 45 | 11 | 4 | 1 |
| Camden, N. J. | 27 | 16 | 7 | 2 | - | 2 | Mobile, Ala. | 62 | 30 | 22 | 6 | 1 | 1 |
| Elizabeth, N. J. | 37 | 23 | 11 | 1 | 2 | 4 | Montgomery, Ala. | 48 | 27 | 12 | 4 | 3 | 1 |
| Erie, Pa. | 51 | 32 | 15 | 1 | 2 | 4 | Nashville, Tenn. | 93 | 45 | 29 | 9 | 7 | 1 |
| Jersey City, N. J. | 60 | 35 | 15 | 1 | 7 | 2 | WEST SOUTH CENTRAL | 1,050 | 591 | 278 | 80 | 43 | 35 |
| Newark, N. J. | 68 | 30 | 18 | 11 | 1 | 3 | Austin, Tex. | 37 | 21 | 11 | 1 | - | - |
| New York City, N. Y. † | 1,511 | 974 | 365 | 91 | 40 | 57 | Baton Rouge, La. | 38 | 16 | 17 | 2 | 3 | 3 |
| Paterson, N. J. | 39 | 22 | 11 | 2 | 1 | 4 | Corpus Christi, Tex. | 23 | 11 | 6 | 2 | 2 | - |
| Philadelphia, Pa. | 410 | 240 | 116 | 22 | 21 | 4 | Dallas, Tex. | 164 | 88 | 44 | 17 | 7 | 4 |
| Pittsburgh, Pa. | 182 | 106 | 53 | 11 | 3 | 16 | El Paso, Tex. | 51 | 36 | 9 | 2 | 3 | 10 |
| Reading, Pa. | 43 | 35 | 5 | 1 | 2 | 1 | Fort Worth, Tex. | 82 | 56 | 13 | 5 | 3 | - |
| Rochester, N. Y. | 101 | 67 | 23 | 8 | 1 | 9 | Houston, Tex. | 234 | 118 | 71 | 26 | 7 | 6 |
| Schenectady, N. Y. | 19 | 15 | 3 | - | - | 1 | Little Rock, Ark. | 49 | 34 | 10 | 3 | 1 | 2 |
| Scranton, Pa. | 24 | 20 | 2 | 1 | 1 | - | New Orleans, La. | 93 | 49 | 33 | 1 | 7 | 2 |
| Syracuse, N. Y. | 73 | 43 | 21 | - | 7 | 2 | San Antonio, Tex. | 155 | 92 | 32 | 13 | 5 | 1 |
| Trenton, N. J. | 35 | 20 | 11 | 3 | - | 2 | Shreveport, La. | 51 | 27 | 18 | 3 | 1 | 2 |
| Utica, N. Y. | 21 | 16 | 5 | - | - | 1 | Tulsa, Okla. | 73 | 43 | 14 | 5 | 4 | 5 |
| Yonkers, N. Y. | 33 | 23 | 7 | 1 | 1 | 1 | MOUNTAIN | 538 | 301 | 144 | 32 | 31 | 9 |
| EAST NORTH CENTRAL | 2,219 | 1,261 | 604 | 154 | 97 | 53 | Albuquerque, N. Mex. | 65 | 36 | 16 | 7 | 4 | 3 |
| Akron, Ohio | 58 | 33 | 12 | 2 | 7 | - | Colorado Springs, Colo. | 30 | 18 | 9 | - | 2 | - |
| Canton, Ohio | 47 | 21 | 19 | 4 | 1 | - | Denver, Colo. | 103 | 55 | 27 | 8 | 8 | 1 |
| Chicago, Ill. | 576 | 301 | 168 | 53 | 28 | 9 | Las Vegas, Nev. | 36 | 17 | 13 | 3 | - | 2 |
| Cincinnati, Ohio | 128 | 76 | 40 | 7 | 2 | 6 | Ogden, Utah | 28 | 13 | 13 | 1 | - | - |
| Cleveland, Ohio | 165 | 97 | 43 | 15 | 4 | 5 | Phoenix, Ariz. | 123 | 74 | 27 | 7 | 8 | - |
| Columbus, Ohio | 93 | 52 | 25 | 4 | 6 | 2 | Pueblo, Colo. | 16 | 10 | 4 | 1 | - | 3 |
| Dayton, Ohio | 79 | 40 | 30 | 3 | 1 | 1 | Salt Lake City, Utah | 51 | 26 | 15 | 1 | 4 | - |
| Detroit, Mich. | 324 | 172 | 87 | 27 | 19 | 5 | Tucson, Ariz. | 86 | 52 | 20 | 4 | 5 | - |
| Evansville, Ind. | 27 | 22 | 4 | 1 | - | 2 | PACIFIC | 1,607 | 1,033 | 378 | 92 | 49 | 38 |
| Fort Wayne, Ind. | 49 | 33 | 11 | 2 | 1 | 1 | Berkeley, Calif. | 28 | 17 | 5 | 3 | - | 2 |
| Gary, Ind. | 30 | 14 | 7 | 5 | 2 | - | Fresno, Calif. | 63 | 36 | 15 | 4 | 5 | 1 |
| Grand Rapids, Mich. | 57 | 40 | 13 | 1 | 1 | 2 | Glendale, Calif. | 28 | 21 | 7 | - | 2 | 1 |
| Indianapolis, Ind. | 146 | 82 | 40 | 9 | 11 | 5 | Honolulu, Hawaii | 56 | 40 | 11 | 2 | 2 | 1 |
| Madison, Wis. | 25 | 10 | 6 | 2 | 2 | 4 | Long Beach, Calif. | 81 | 54 | 23 | 2 | 1 | 4 |
| Milwaukee, Wis. | 135 | 87 | 35 | 2 | 5 | 3 | Los Angeles, Calif. | 472 | 307 | 104 | 27 | 16 | 2 |
| Peoria, Ill. | 28 | 23 | 4 | - | 1 | - | Oakland, Calif. | 65 | 44 | 15 | 2 | 1 | - |
| Rockford, Ill. | 41 | 23 | 12 | 3 | 2 | - | Pasadena, Calif. | 24 | 14 | 6 | 3 | 1 | 4 |
| South Bend, Ind. | 50 | 31 | 12 | 3 | 2 | 6 | Portland, Ore. | 132 | 90 | 30 | 6 | 4 | 2 |
| Toledo, Ohio | 99 | 64 | 24 | 4 | 2 | - | Sacramento, Calif. | 66 | 44 | 17 | 2 | 1 | 4 |
| Youngstown, Ohio | 62 | 40 | 12 | 7 | - | 2 | San Diego, Calif. | 132 | 79 | 35 | 9 | 4 | 1 |
| WEST NORTH CENTRAL | 750 | 482 | 159 | 46 | 37 | 41 | San Francisco, Calif. | 156 | 94 | 41 | 13 | 5 | 4 |
| Des Moines, Iowa | 46 | 27 | 12 | 2 | 1 | - | San Jose, Calif. | 72 | 48 | 12 | 6 | 3 | 6 |
| Duluth, Minn. | 35 | 28 | 4 | 1 | 2 | 3 | Seattle, Wash. | 145 | 91 | 37 | 6 | 3 | 4 |
| Kansas City, Kans. | 45 | 27 | 11 | 2 | 4 | 2 | Spokane, Wash. | 42 | 24 | 10 | 5 | 2 | 1 |
| Kansas City, Mo. | 116 | 77 | 25 | 5 | 6 | 4 | Tacoma, Wash. | 45 | 30 | 10 | 2 | 1 | - |
| Lincoln, Nebr. | 30 | 17 | 11 | 1 | 1 | 2 | Total | 11,574 | 6,875 | 3,035 | 728 | 453 | 393 |
| Minneapolis, Minn. | 111 | 70 | 18 | 10 | 7 | 3 | Expected Number | 12,193 | 7,268 | 3,266 | 799 | 368 | 408 |
| Omaha, Nebr. | 96 | 59 | 21 | 9 | 4 | - | | | | | | | |
| St. Louis, Mo. | 176 | 111 | 35 | 10 | 11 | 12 | | | | | | | |
| St. Paul, Minn. | 52 | 40 | 10 | 1 | 1 | 3 | | | | | | | |
| Wichita, Kans. | 43 | 26 | 12 | 5 | - | 12 | | | | | | | |

†Delayed report for week ending April 26, 1975

HEALTH STATUS — Continued

mg of chloroquine (Aralen*) base** immediately after acquiring the blood film for diagnosis is recommended. Such action would in most cases prevent further progress of the illness pending the outcome of specific diagnosis.

Clinical therapy

P. vivax. The normal recommended treatment for *P. vivax* is a total dose of 1.5 g of chloroquine over a 3-day period (600 mg initial dose, followed by 300 mg at 6, 24, and 48 hours). There have been no reports of resistance of this species to chloroquine, and this regimen should eliminate the parasitemias and symptoms within 24 to 72 hours. This drug will not, however, eliminate the potential for future relapses. If presumptive treatment with chloroquine has been administered, the amount given for therapy should be decreased, since chloroquine is excreted slowly.

P. falciparum. Because of the high proportion of chloroquine resistant *P. falciparum* in Southeast Asia, all cases seen should be assumed to be resistant and an alternative combination of drugs used. A number of acceptable combinations exist; the following 2 have been widely used with a high rate of cure:

I. Quinine sulfate — 650 mg (10 grains) t.i.d. for 10 to 14 days.

Pyrimethamine (Daraprim*) — 50 mg daily for 1 to 3 days, administered concurrently.

Sulfadiazine — 2.0 grams daily (0.5 g q.i.d.) for 5 to 10 days, administered concurrently.

or II. Quinine sulfate — 650 mg t.i.d. for 3 days.

Tetracycline — 250 mg q.i.d. for 10 days, administered concurrently.

Such treatment of *P. falciparum* malaria may be effective in up to 95% of the cases; however, a careful follow-up of such patients for up to 90 days should be conducted for recurring symptoms and/or parasitemias. Recurrences are usually within the first 30 days but may occur later. Retreatment would be with the same or another drug combination.

Curative therapy for *P. vivax*

In cases of *P. vivax*, relapses may occur after chloroquine treatment unless curative therapy is administered. The curative drug available, primaquine, poses some problems of toxicity and must be administered only under close medical supervision. The 2 accepted regimens for use of this drug are as follows:

1. Primaquine — 15 mg (base) daily for 14 days. The initial dose should be in association with chloroquine,

either with the normal therapeutic course, or if administered later, with a single dose of 600 mg (base).

2. Primaquine — 45 mg weekly for 8 weeks.

Chloroquine — 300 mg weekly for 8 weeks.

(This is available as a combined tablet.)

The 14-day regimen may be preferable, providing the patients is under close medical supervision, because regular drug-taking would be assured and the likelihood of missing doses during the longer 8-weeks course of treatment would be avoided.

It should be noted that the administration of primaquine or chloroquine-primaquine mixtures may cause gastrointestinal symptoms in 10-20% of patients.

Primaquine toxicity

Patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency may experience mild to severe hemolysis during primaquine therapy. It is recommended that all patients be screened for G6PD deficiency prior to treatment and that periodic hematocrit determinations be done during therapy. It is estimated that 10-12% of Vietnamese populations may have at least some level of deficiency of this enzyme. Those with such a deficiency should be placed on the once-weekly dosage schedule rather than the daily regimen. The hemolysis is reversible on cessation of drug, and a significant and persistent fall in hematocrit should dictate cessation of treatment.

TUBERCULOSIS ASSESSMENT

Tuberculosis does not appear to be a major problem among the first groups of refugees to be screened on arrival in the United States. Out of 1260 chest roentgenograms at Camp Pendleton and 1000 at Fort Chaffee, a total of 33 suggested the presence of tuberculosis. Close to 1.5% of persons, therefore, are classed as tuberculosis suspects, some of whom may be expected to have bacteriologic evidence of disease. Less information is available on tuberculin skin tests, given to children 14 years old or younger, but preliminary figures from Fort Chaffee indicate that approximately 10% of persons have positive reactions. Although the proportion of refugees with previous BCG vaccinations is unknown, these data are of practical significance for they demonstrate that 90% are tuberculin negative and not in need of X-ray follow-up.

(Reported by the Center for Disease Control.)

The Center for Disease Control has established an information center for health problems of refugees. Health Officers and physicians should call (404) 633-3311 and ask for "Refugee Health Assistance." After 5 p.m. EDT, the calls should be addressed to (404) 633-2176.

All blood slides suspected of having malaria parasites or in question, should be mailed air mail to the

National Malaria Repository
Bureau of Laboratories
Center for Disease Control
Atlanta, Georgia 30333

*Use of trade names does not imply endorsement by the Public Health Service or the U.S. Department of Health, Education, and Welfare.

**All chloroquine and primaquine doses are expressed in terms of the base. Dosages of all drugs are given as the adult dose. Proportional reduction of dosage would be necessary for children.

INTERNATIONAL NOTES
 LISTERIOSIS – United Kingdom, 1973

In 1973 *Listeria monocytogenes* was isolated from 25 persons with listeriosis. All the isolates were from ill patients with symptoms or signs suggestive of either meningitis or bacteraemia. Four of the patients died. The organism was grown from the blood only in 8 cases, from the CSF only in 11 cases, and from both CSF and blood culture in the remaining 6 cases (Table 1). Twenty of the strains were typed, 4 proved to be type 1, 16 were type 4b.

The epidemiology of listeriosis in humans is imperfectly understood. The disease affects both wild and domestic animals; and the bacillus, acquired perhaps as a result of contact with animals or with meat and poultry in the kitchen, may not infrequently be carried in the feces of healthy people. Illness, however, rarely follows. *L. monocytogenes* should probably be regarded as an opportunist pathogen of man liable to cause meningo-encephalitis or occasionally generalized infection, particularly in those persons at special risk. Such special-risk persons include newborn babies, women in the puerperium, or elderly persons debilitated as a result of neoplasia. Thus 6 of the patients were babies under 28 days old, 2 were pregnant women, and 6 were adults with other known serious illness. Nevertheless, the disease occasionally attacks adults apparently in good health; for example, one of the fatalities reported in 1973 was a 57-year-old man who had been well before his illness. Reports from other countries have suggested some seasonal variation in the incidence of listeriosis, with the greatest number of cases in domestic animals occurring in the spring and cases in humans mostly in the late summer. Lending some support to this evi-

Table 1
 Listeria Infections in Humans*
 United Kingdom and Republic of Ireland – 1973

| Age (Years) | Specimen | | | All Infections** |
|-------------|----------|---------------|------------|------------------|
| | CSF Only | CSF and Blood | Blood Only | |
| <1 | 4 | 2 | — | 5 |
| 1–4 | 1 | — | — | 2 |
| 5–14 | — | — | — | — |
| 15–44 | 1 | 1 | 5(1) | 7(1) |
| 45–64 | 4(1) | 2(1) | 2 | 8(2) |
| 56+ | 1(1) | 1 | 1 | 3(1) |
| Total | 11(2) | 6(1) | 8(1) | 25(4) |

*Deaths in ()

**No isolations from other than CSF or blood were reported.

dence, 31 (41%) of the last 70 cases in humans in the United Kingdom were reported from August through November. (Reported by the Public Health Laboratory Service with data from the United Kingdom and the Republic of Ireland, published in the British Medical Journal, November 16, 1974.)

Editorial Note

In 1973, 109 isolates from listeriosis cases were voluntarily submitted to CDC for confirmation, compared with 144 isolates in 1974. Representing an unknown fraction of the total number of cases of listeriosis occurring yearly in the United States, these isolates came primarily from blood and CSF.

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Director, Center for Disease Control
 Director, Bureau of Epidemiology, CDC
 Editor, MMWR

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 Philip S. Brachman, M.D.
 Michael B. Gregg, M.D.

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 cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials.

Send reports to:

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 Atlanta, Georgia 30333

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