

Vol. 22, No. 38

WEEKLY REPORT

For Week Ending September 22, 1973

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

DATE OF RELEASE: SEPTEMBER 28, 1973 - ATLANTA, GEORGIA 30333

# EPIDEMIOLOGIC NOTES AND REPORTS PROBABLE BOTULISM — Washington

On August 5, 1973, an 18-year-old man in Wenatchee, Washington, developed dizziness and the following day had the onset of diplopia, dysphagia, dysphonia, and weakness in both arms. These symptoms progressed, and he was admitted to a local hospital on August 7.

Physical examination revealed evidence of cranial nerve impairment and upper extremity weakness. A Tensilon\* test was negative. Spinal fluid protein was 53 mg%, and no cells were present. The patient's condition continued to deteriorate, and he was transferred to a hospital in Seattle on August 8.

On admission he denied a history of dry mouth, sore throat, nausea, vomiting, and paresthesias. On examination

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

# CONTENTS Epidemiologic Notes and Reports Probable Botulism — Washington 317 Measles — Maryland 318 Gastrointestinal Disease at a Private Campsite — Maryland 323 Warehouse Inspection of Canned Mushrooms — United States 324 Current Trends Measles Resolution Adopted by the

he was drowsy but oriented. His pupils were in mid-position and reactive. Extraocular movements were decreased in all fields of gaze, and marked ptosis was present bilaterally. There was also evidence of impairment of cranial nerves VII and IX-XII. The patient had muscle weakness in both the arms and legs. Sensory examination was normal. Deep tendon reflexes were diminished in the arms but normal in the legs.

American Medical Association . . . .

The differential diagnosis at this time included atypical

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

| Marie Direct Till - 1                       | 38th WEF              | K ENDING              | MEDIAN        | CUMULATIVE, FIRST 38 WEEKS |                |                     |  |
|---|-----------------------|-----------------------|---------------|----------------------------|----------------|---------------------|--|
| DISEASE                                     | September 22,<br>1973 | September 23,<br>1972 | 1968-1972     | 1973                       | 1972           | MEDIAN<br>1968-1972 |  |
| Aseptic meningitis                          | 165                   | 188                   | 231           | 3,205                      | 2,649          | 2,871               |  |
| Brucellosis                                 | 5                     | 11                    | 5             | 138                        | 144            | 154                 |  |
| Chickenpox                                  | 292                   | 368                   |               | 145,473                    | 114,628        |                     |  |
| Diphtheria                                  | 1                     | 3                     | 3             | 126                        | 75             | 75                  |  |
| Encephalitis, primary:                      | man dend 30           | 27                    | Olar Alter    | at the means               | 1 25 10 7 5 10 | and the same        |  |
| Arthropod-borne and unspecified             | 48                    | 38                    | 38            | 1,066                      | 743            | 930                 |  |
| Encephalitis, post-infectious               | 1                     | 4                     | 4             | 222                        | 221            | 283                 |  |
| Hepatitis, serum (Hepatitis B)              | 138                   | 150                   | 126           | 5,816                      | 6,652          | 5,211               |  |
| Hepatitis, infectious (Hepatitis A)         | 1,122                 | 1.040                 | 1,056         | 36,975                     | 39,972         | 39,973              |  |
| Malaria                                     | 7                     | 14                    | 71            | 181                        | 704            | 2,089               |  |
| Measles (rubeola)                           | 90                    | 138                   | 156           | 24,320                     | 27,079         | 27,079              |  |
| Meningococcal infections, total             | 11                    | 23                    | 23            | 1.075                      | 1,039          | 1,911               |  |
| Civilian                                    | 11                    | 21                    | 21            | 1,051                      | 997            | 1,720               |  |
| Military                                    | on Talling            | 2                     | er test parts | 24                         | 42             | 191                 |  |
| Mumps                                       | 387                   | 420                   | 612           | 55,828                     | 57,323         | 76,747              |  |
| Rubella (German measles)                    | 87                    | 135                   | 236           | 26,118                     | 21,019         | 44,131              |  |
| Tetanus                                     | 3                     | 8                     | 4             | 64                         | 90             | 90                  |  |
| Tuberculosis, new active                    | 620                   | 699                   |               | 22,972                     | 24,499         |                     |  |
| Tularemia                                   | 7                     |                       | 1-04.000      | 127                        | 103            | 102                 |  |
| Typhoid fever                               | 13                    | 12                    | 13            | 507                        | 253            | 253                 |  |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 15                    | 20                    | 9             | 562                        | 453            | 352                 |  |
| Gonorrhea                                   | 18,665                | 18,161                |               | 595,982                    | 538,788        | 7                   |  |
| Syphilis, primary and secondary             | 461                   | 515                   | 10-25 44      | 18,876                     | 17,955         |                     |  |
| Rabies in animals                           | 46                    | 71                    | 58            | 2,641                      | 3,162          | 2,614               |  |

## TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

|                                | Cum. |                                 | Cum. |
|--------------------------------|------|---------------------------------|------|
| Anthrax:                       | 1    | Poliomyelitis, total: Md1, Fla1 | 5    |
| Botulism:                      |      | Paralytic: Md1                  |      |
| Congenital rubella syndrome: * |      | Psittacosis:                    | 18   |
| Leprosy: Tex1                  | 91   | Rabies in man:                  |      |
| Leptospirosis: Pa1             | 27   | Trichinosis: Conn1              | 71   |
| Plague:                        | 2    | Typhus, murine: Tex1            | 28   |

\* Delayed reports: Congenital rubella syndrome: Ariz.-2

#### BOTULISM - Continued

Guillain-Barré syndrome and botulism. The patient was treated initially with gastric lavage and high enemas. Botulinal antitoxin was withheld pending the results of laboratory tests.

On August 9, a repeat lumbar puncture was performed; spinal fluid protein was 31 mg%, and 2 mononuclear cells were seen. Nerve conduction velocities were normal, and an electromyogram (EMG) failed to demonstrate facilitation of the muscle action potential during rapid repetitive nerve stimulation. Because of rapidly increasing respiratory difficulty the patient required mechanical ventilatory assistance; later that day a tracheostomy was performed.

Over the next several days, the patient's neurologic condition stabilized. Deep tendon reflexes were absent in the arms and legs. A repeat lumbar puncture was performed on August 22; spinal fluid protein was 23 mg%, and no cells were present. A subsequent EMG revealed decreased amplitude of the muscle action potential but again failed to demonstrate facilitation of the potential.

Serum and stool specimens obtained on the fourth day of illness were negative for botulinal toxin; however, culture of the stool specimen yielded *Clostridium botulinum*, type A. Repeat analyses of serum specimens obtained on August 16 and 31 and a stool specimen obtained on August 31 were negative for botulinal toxin.

Epidemiologic investigation revealed that the patient had eaten fish soup and salmon, both home-canned, several days prior to the onset of his illness. Multiple food specimens were analysed, and an unopened container of the home-canned salmon was positive for type A botulinal toxin.

(Reported by Robert Rankin, M.D., general practitioner, Wenatchee, Washington; David Gilbert, M.D., Intern, Jack

Miller, M.D., Neurology Resident, Robert Graebner, M.D., Chief Neurology Resident, Donald F. Farrell, M.D., Attending Neurologist, University of Washington Hospital, Seattle; Jean G. Spearman, R.N., M.N., Public Health Nurse Epidemiologist, Epidemiology Division, Seattle-King County Health Department; Clarence Hall, Head, Environmental Health Unit, Laboratory Section, Washington State Health Services Division; John Girard, R.S., Supervisor, Food Protection Section, Marshall Kremers, M.D., Acting State Epidemiologist, Washington State Department of Social and Health Services; the Food and Drug Administration; the Anaerobe Unit, Enterobacteriology Section, Bacteriology Branch, Bureau of Laboratories, CDC; and an EIS Officer.)

#### **Editorial Note**

The initial diagnosis in this case was atypical descending Guillain-Barré syndrome, which was suggested by the decreased and later absent deep tendon reflexes, the slightly elevated spinal fluid protein, and the negative serum and fecal analyses for botulinal toxin. In addition, 1 of the EMG findings frequently associated with botulism, facilitation of the muscle action potential with rapid, repetitive nerve stimulation, was not observed in this case.

However, the isolation of *C. botulinum*, type A, from the patient's stool and the demonstration of type A toxin in uneaten food obtained from the patient's home constitute circumstantial evidence favoring the diagnosis of botulism. Atypical Guillain-Barré syndrome is the entity most often confused with botulism in cases reported to CDC (1).

#### Reference

1. U.S. Department of Health, Education, and Welfare, Public Health Service: Botulism in the United States: Review of Cases 1899-1973 and Handbook for Epidemiologists, Clinicians, and Laboratory Workers. In press

# CURRENT TRENDS MEASLES RESOLUTION ADOPTED BY THE AMERICAN MEDICAL ASSOCIATION

At its annual convention held June 24-28, 1973, the American Medical Association House of Delegates adopted "Resolution 108—More Complete and More Prompt Reporting of Measles," which requests all physicians and others charged with the responsibility for reporting measles cases to report them *promptly*, *preferably by telephone*, to the local and state public health officials concerned. In addition, both public health officials and private practitioners are encouraged to intensify and expand their efforts to immunize those persons susceptible to the disease whenever second or successive generation measles cases are detected in the community.

According to the measure, prior to the development of an effective vaccine, the action following the reporting of measles cases usually failed to prevent the spread of the disease; continuing failure to report measles until second, third, or fourth generation cases appear, also allows rapid spread. Prompt reporting, the measure states, could and frequently has prevented many cases by developing public health immunization campaigns and increased immunization efforts by private physicians in the area of the outbreak.

(Reported by the Department of Environmental, Occupational, and Public Health, American Medical Association.)

# EPIDEMIOLOGIC NOTES AND REPORTS MEASLES — Maryland

On May 24, 1973, a private physician in Prince George's County, Maryland, reported 1 case of measles in an 8-year-old third-grade boy (Case 1) who resided in Prince George's County but attended an elementary school in Charles County. The physician based his diagnosis on characteristic clinical signs and symptoms and listed the onset date as May 14. He also stated that the boy had not received measles vaccine. Subsequently, the physician reported 2 additional cases: 1 in a 6-year-old girl (Case 2) with onset on May 28 who had

received further attenuated measles vaccine before she was I year of age and the other in a 10-month-old boy (Case 3) with no history of vaccination who became ill on May 29. Both children had been exposed to the index case in the physician's waiting room on May 15. A visit to the homes of these 3 children and to another elementary school which Case 2 attended revealed no new measles cases.

On June 20, a physician in Charles County reported 2 (Continued on page 323)

# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING SEPTEMBER 22, 1973 AND SEPTEMBER 23, 1972 (38th WEEK)

| A CONTRACTOR           | ASEPTIC<br>MENIN | BRUCEL.   | CHICKEN- | DIPHT    | HERIA              |              | NCEPHALIT             | · ·                  | HEPATITIS              |          |                     |
|------------------------|------------------|-----------|----------|----------|--------------------|--------------|-----------------------|----------------------|------------------------|----------|---------------------|
| AREA                   | GITIS            | LOSIS     | POX      | DII III  |                    |              | including<br>:. cases | Post In-<br>fectious | Serum<br>(Hepatitis B) |          | tious<br>titis A)   |
|                        | 1973             | 1973      | 1973     | 1973     | Cum.<br>1973       | 1973         | 1972                  | 1973                 | 1973                   | 1973     | 1972                |
| UNITED STATES          | 165              | 5         | 292      | 1        | 126                | 48           | 38                    | (6)-19               | 138                    | 1,122    | 1,04                |
| EW ENGLAND             | 14               | -34       | 49       | -        | 3                  | 3            | -                     | 1 1                  | 1                      | 68       | 6                   |
| Maine*                 | 1                | 10 20     | 1        |          | T                  |              |                       | 1                    |                        | -<br>8   |                     |
| Vermont                | - 1              |           | MATE.    |          | E -                | 17           | _                     | 2 3 <u>1</u> 1 1     | _                      | 5        |                     |
| Massachusetts          | 6                | VI - 11   | 29       |          | 1                  | 2            | 1 - 1                 |                      |                        | 39       | 3                   |
| Rhode Island           | 3                |           | 13       | -        | 2                  | -            | 1 - 1                 | -                    | -                      | 3        |                     |
| Connecticut            | 4                | -         | 6        | -        | 11/2/4             | 1            |                       | -                    | 1                      | 13       | 1                   |
| IDDLE ATLANTIC         | 26               | 1 200     | 14       | 1 2 1    | 7/49 12 1          | 11           | 12                    | 481 291              | 23                     | 149      | 20                  |
| Upstate New York       | 2                | -         | 1        | _        | 107-               | 2            | 5                     | 14 -                 | 4                      | 59       | 4                   |
| New York City          | 2                |           | 13       |          | 344 -              | 4            | 1 - 1                 | - 1                  | 7                      | 21       | 4                   |
| New Jersey             | 19               | -65       | NN       |          | 10%-10             | 3            | 1                     | 2 500                | 4                      | 47       | 5                   |
| Pennsylvania           | 3                | -1        | -        | -        | (4) <del>-</del> " | 6            | 6                     |                      | 8                      | 22       | 6                   |
| AST NORTH CENTRAL      | 49               | 1         | 75       | -        | 4010 27            | 12           | 12                    | 167 2.7              | 32                     | 172      | 16                  |
| Ohio                   | 9                | 1         | 12       | - "      | 1.3/5 = -          | 5            | 2                     | 8 5 1                | 7                      | 19       | 3                   |
| Indiana                | 2                | -         | 4        |          | 1 100              | <del>-</del> | 7                     | 311                  | 7                      | 16       | 1                   |
| Illinois               | 6<br>29          | _         | 22       |          | 1 1600 1           | 4            | 5<br>2                | 1 1                  | 16                     | 37<br>87 | 8                   |
| Wisconsin              | 3                | 120       | 37       | <u> </u> | 3 7 = =            | -            | 3                     | 341                  | 2                      | 13       | 4/4                 |
| FET NORTH CENTRAL      |                  |           | 0.5      |          |                    |              |                       |                      | 9                      | 50       | 4                   |
| Minnesota              | 5<br>3           |           | 25       |          | 7                  |              | 1                     | 1 - 14               | 2                      | 8        |                     |
| lowa                   |                  |           | 12       | 492 -    | 1000 -             | Alice III    |                       |                      | 3                      | 5        |                     |
| Missouri               | 2                | 2         |          |          | 363 -12            |              | - 21                  | = 27                 | 2                      | 16       | 1                   |
| North Dakota           | 1 1 2            |           | 7        | _        | UT = 1             | 1 -          |                       | 1 4                  |                        | -10      |                     |
| South Dakota           | 1 4              | _         | 10.0-    | - 1      | 7                  | - 1          | I                     | 3                    | -                      | 1 E 1    |                     |
| Nebraska               | - 15             | _         | 2        |          |                    | - 1          | 51                    | - 20                 |                        | 20       | . 1                 |
| AUL .                  | . 11             |           | _        | 11.5     |                    |              |                       |                      | 1.6.1                  | 20       |                     |
| OUTH ATLANTIC Delaware | 23               | 1         | 21       | 1 5      | 100/200            | 5            | 3                     | 18.71                | 14                     | 222<br>3 | 14                  |
| Maryland               | 4                | -11 64    | 2        | HUE -    | 166 - 1            | a 11         | II. [1                | 307                  |                        | 13       |                     |
| District of Columbia   | 2                |           |          |          | 2 -                | 1 -1         | 1                     | _                    | 3                      | -        |                     |
| Virginia               | 6                | 1         | 101 12   | 1 12 -   | 1100 ±210          | 1            |                       | 100                  | 1                      | 35       |                     |
| West Virginia          | 2                | 11-0      | 19       | - 1      | 1301 - 3           | 100          | 2                     |                      |                        |          |                     |
| North Carolina         | 7                | - 1       | NN       | -        | 1.80 1             | 2            | 1                     | -                    | 6                      | 37       |                     |
| South Carolina         | -                | _         |          | -        | 3115 - 11          | 9            | -                     | - 198                |                        | 21<br>9  | 4                   |
| Florida                | 2                | 18 20     | 11 (2    | -        | T 22-91            | 2            | 1 - 2                 | 1 11                 | 4                      | 104      |                     |
| AST SOUTH CENTRAL      |                  | al Just   |          |          | A. and a           | 2            |                       | 2012                 | 7                      | 88       | ribea g             |
| Kentucky               | 15<br>3          | _         | 4 2      | _        | -                  | _            | 4                     | 1 10                 | 2                      | 23       |                     |
| Tennessee              | 7                |           | NN       |          | 1,394 _ C          | 401 -0       | 2                     |                      | 1                      | 39       | - 3/4               |
| Alabama                | 3                | -         | 1        |          | 390 = 1            | 31 -         | 2                     | - 0                  | 2                      | 20       | 1,700               |
| Mississippi            | 2                | VI        | 1        | -        | P 9" - 1           | 2            | 311-1                 | 7                    | 2                      | 6        |                     |
| EST SOUTH CENTRAL      | 15               | 3         | 18       | -        | 14                 | 5            | 4                     | _                    | 13                     | 142      | 10                  |
| Arkansas*              | -                | -         | 2        | <        | 1.9 1              | 99 - 1       |                       | - 6                  | 1                      | 2        | THE PERSON NAMED IN |
| Louisiana *            | 8                | _         | NN       | -        | 401                | 30 - I       | . Tc.                 | 3: -VIII             | 5                      | 19       |                     |
| Oklahoma               | 3                | -         | 2        | -        | 1 TO 1             | 2            | 1                     |                      | 3                      | 29       |                     |
|                        | 4                | 3         | 14       | 111-     | 14                 | 3            | 3                     | -                    | 4                      | 92       |                     |
| OUNTAIN                |                  | The Labor | 28       |          | 20                 | 1            | -                     |                      | -                      | 49       |                     |
| Montana                | -                | -         | 8        | -        | -                  | -            |                       | - 3                  | 3 -                    | 3        |                     |
| Idaho                  | -                | -         | -        | -        | -                  | -            | -                     | -                    |                        | 1        |                     |
| Wyoming                | -                | -         | 1        | -        | -                  | -            | 1-1                   | -                    | 3 -01                  |          |                     |
| New Mexico             | -                | -         | 15       | -        | -                  | 1            | -                     | - 4                  |                        | 13       |                     |
| Arizona*               | _ 1              |           | 4        |          | 14                 | -            | 10 2                  | 2.5                  | 2.1                    | rić Ēr   | A = 49              |
| Utah                   | -                | -         | -        | -        | W = 1              | -            | -                     | -                    |                        | 3        | 1.0                 |
| Nevada *               | = = = 1          |           | -        | 33-      | -                  | -            | -                     |                      | -                      | 27       |                     |
| ACIFIC                 | 18               | LI -10+   | 58       | 1        | 82                 | 9            | 2                     | 100                  | 39                     | 182      | 1                   |
| Washington             | 1                | -         | 40       | 1        | 74                 | 2            |                       | 0.0                  | 5                      | 28<br>19 | 72                  |
| California *           | 1                |           |          | <u>.</u> | 3                  | 7            | - 2                   | Sec. 15.             | 31                     | 123      | 1                   |
| Alaska                 | 16               |           | 15       | 1 2      | 2                  |              | 2                     |                      | 31                     | 123      | 9.16                |
| Hawaii                 | - 2              | 1111      | 3        | 1        | -                  | 4 -          | XI = 3                | 11.6                 | 1                      | 12       | - 40-               |
|                        |                  |           |          |          |                    |              |                       |                      |                        |          |                     |
| uam*                   | -                | -         | 1        | -        | -                  | 500          | 1.                    | -                    | -                      | 11       | 100                 |
| irgin Islands          |                  | -         |          | _        |                    | _            | _                     |                      |                        | - 11     |                     |

\*Delayed reports:

Aseptic meningitis: N. H. 1, Guam 1 Chickenpox: Guam 4 Diphtheria: Ariz. 1 Encephalitis, primary: N.H. 3, Calif. 2 Hepatitis B: Ark. 1, Ariz. 1, Nev. 3, Guam 1 Hepatitis A: Me. 6, N. H. 5, Ark. 8, La. delete 1, Ariz. 18, Nev. 28, Guam 1

# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING SEPTEMBER 22, 1973 AND SEPTEMBER 23, 1972 (38th WEEK) — Continued

| ADEA                   | MALARIA              |        |         | MEASLES (Rubeola) |                | MENINGOCOCCAL INFECTIONS,<br>TOTAL |           |           | MUMPS    |                | RUBELLA      |            |
|------------------------|----------------------|--------|---------|-------------------|----------------|------------------------------------|-----------|-----------|----------|----------------|--------------|------------|
| AREA                   | 100 Held 101         | Cum.   | 1973    | Cumu              | lative         | 1973                               | Cum       | ulative   | 1973     | Cum.           | 1973         | Cum.       |
| 1111 1 1 1 1 1 1 1     | 1973                 | 1973   | 19/3    | 1973              | 1972           | 17/3                               | 1973      | 1972      | 10 12 12 | 1973           |              | 1973       |
| UNITED STATES          | 7                    | 181    | 90      | 24,320            | 27,079         | 11                                 | 1,075     | 1,039     | 387      | 55,828         | 87           | 26,118     |
| IEW ENGLAND            | 1                    | 15     | 4       | 7,379             | 3,169          | - 11                               | 46        | 43        | 41       | 2,929          | 2            | 3,63       |
| Maine *                |                      | -      | _       | 65<br>857         | 244<br>260     | = =                                | 6         | 3 3       | 1        | 332<br>191     | - 3          | 375        |
| Vermont                |                      | 2      | -       | 119               | 128            |                                    | 3         |           | 4        | 261            | _            | 4:         |
| Massachusetts          |                      | 6      | 2       | 3,930             | 716            | -                                  | 12        | 21        | 17       | 858            | 1            | 2,04       |
| Rhode Island           | 1                    | 1<br>6 | 1       | 605<br>1,803      | 524<br>1,297   | 1                                  | 3<br>21   | 10 6      | 8<br>12  | 348<br>939     | 1 -          | 21<br>88   |
| IDDLE ATLANTIC         |                      | 28     | 9       | 2,473             | 1,012          | 2                                  | 147       | 126       | 24       | 7,254          | 3            | 4,19       |
| Upstate New York       | -                    | 14     | 4       | 802<br>903        | 127            | 1-                                 | 52<br>29  | 32<br>38  | NN<br>18 | 4,557          |              | 42         |
| New York City          |                      | 5      | 5       | 416               | 341<br>486     | 1                                  | 35        | 24        | 1        | 1,500          | 2            | 3,00       |
| Pennsylvania           |                      | 7      | - 1     | 352               | 58             | 1 4                                | 31        | 32        | 5        | 1,197          | - <b>1</b>   | 29         |
| AST NORTH CENTRAL Ohio | 1                    | 23     | 39<br>1 | 8,537             | 11,057<br>251  |                                    | 141<br>57 | 150<br>61 | 65<br>5  | 14,264         | 33           | 5,99<br>68 |
| Indiana                |                      | 3      | 12      | 283<br>644        | 1,243          | _                                  | 4         | 11        | 7        | 1,195          | 4            | 94         |
| Illinois               | 1                    | 12     | 8       | 2,069             | 4,111          |                                    | 24        | 32        | 8        | 2,406          | 4            | 96         |
| Michigan               | 6 m <del>-</del> 1 i | 4      | 11      | 4,375<br>1,166    | 1,990<br>3,462 | =                                  | 41<br>15  | 40        | 20<br>25 | 3,933<br>4,050 | 14<br>11     | 1,84       |
| EST NORTH CENTRAL      | _                    | 7      | 2       | 441               | 946            |                                    | 83        | 74        | 40       | 4,678          | 2            | 1,21       |
| Minnesota              | -                    | í      | 2       | 21                | 21             |                                    | 8         | 23        | -        | 81             |              | 22         |
| lowa                   | -                    | 1      |         | 277               | 659            |                                    | 19        | 4         | 25       | 2,854          | 1            | 19         |
| Missouri               |                      | 1      | · -     | 52                | 163            | -                                  | 32        | 20        | 13       | 687            | 1            | 26         |
| North Dakota           | _                    | 1      |         | 58                | 52<br>6        | 1                                  | 3 4       | 2         |          | 19             |              | 27         |
| Nebraska               | - 5                  | 1      | _       | 6                 | 18             | -                                  | 10        | 9         | 2        | 135            |              | 14         |
| Kansas                 |                      | 2      | -       | 27                | 27             | - 1                                | 7         | 16        | - 1      | 836            | -            | 9          |
| OUTH ATLANTIC          | 2                    | 30     | 8       | 1,223             | 2,168<br>50    | 3                                  | 182       | 237       | 33       | 6,589          | 17<br>1      | 2,13       |
| Maryland               | - TA                 | 3      |         | 12                | 15             | 1                                  | 24        | 35        | 3        | 634            |              | 1          |
| District of Columbia   | _                    | 1      | -       | 5                 | 2              | -                                  | 4         | 10        | 7        | 123            | 4            | - 6        |
| Virginia               | 2                    | 8      | -       | 418               | 60             | 1                                  | 35        | 49        | 6        | 700            | 1<br>13      | 62         |
| West Virginia 🛦        | _                    | 7      | 3       | 213               | 278<br>34      | 7                                  | 39        | 29        | NN       | 2,248 NN       |              | 20         |
| South Carolina         | -                    | 1      | 1       | 60                | 216            |                                    | 12        | 20        | <u> </u> | 354            | 2            | 8          |
| Georgia                | -                    | 3 7    | - 4     | 152<br>351        | 169<br>1,344   | -                                  | 21<br>43  | 18<br>67  | 17-      | 2,235          |              | 87         |
| AST SOUTH CENTRAL      |                      | 9      | 6       | 606               | 1,044          | 3                                  | 97        | 79        | 60       | 4,616          | 3            | 1,31       |
| Kentucky               | -                    | 4      | 2       | 371               | 523            | 1                                  | 34        | 25        | 32       | 1,360          |              | 39         |
| Tennessee              |                      | - 1 -  | 7 7     | 165               | 192            | -                                  | 39        | 28        | 26       | 2,141          | 3            | 52<br>18   |
| Mississippi            | _                    | 5 -    | 4       | 13<br>57          | 147<br>182     | 2                                  | 15        | 16<br>10  | 2        | 655<br>460     |              | 20         |
| EST SOUTH CENTRAL      | 1                    | 10     | 10      | 688               | 1,485          | 113                                | 166       | 125       | 39       | 3,764          | 7            | 1,45       |
| Arkansas               | 7 C-10               |        | -       | 69                | 13             | -                                  | 13        | 9         | 1        | 356            |              | 11         |
| Louisiana              | -                    | 2      | -       | 84                | 85             | -                                  | 39<br>29  | 37        | 3        | 85<br>436      |              | 17         |
| Texas                  | ī                    | 7      | 1<br>9  | 55<br>480         | 10<br>1,377    | -                                  | 85        | 73        | 35       | 2,887          | 7            | 1,06       |
| OUNTAIN                |                      | 9      | 3       | 727               | 1,857          | 1                                  | 32        | 22        | 11       | 2,466          | 2            | 2,38       |
| Montana                | -                    | 1      |         | 17                | 16             | -021 A                             | 7         | 4         | 5        | 238            |              | 50         |
| Idaho                  | 11 (22)              |        |         | 255<br>80         | 109<br>51      | -                                  | 4         | 5         | . d 🖭    | 110<br>421     |              | 3          |
| Colorado               |                      | 2      |         | 105               | 525            | I = = = =                          | 11        | 5         | 5        | 455            | 1            | 1,54       |
| New Mexico             | -                    | 2      | 3       | 124               | 122            | _                                  | 3         | 3         | 1_       | 966            | 1            | 19         |
| Arizona *              | -                    | 4      | +       | 17                | 878<br>155     | - 1                                | 3 2       | 1 2       |          | 140            |              | 1          |
| Nevada                 | _                    | 5 7    | 5 -     | 128               | 1              | 1                                  | 2         | 1         | 12       | 8              | _            | 1 110      |
| ACIFIC                 | 2                    | 50     | 9       | 2,246             | 4,341          | 2                                  | 181       | 183       | 74       | 9,268          | 18           | 3,80       |
| Washington             |                      | 3      | 1       | 1,014             | 977            | 1                                  | 20        | 16        | 27<br>9  | 1,438          | 5            | 78         |
| Oregon                 | 1                    | 40     | 3 5     | 459<br>689        | 133<br>3,120   | 1                                  | 12        | 14        | 22       | 5,137          | 13           | 2,31       |
| Alaska                 | m = 1                | 2      | 1       | 65                | 13             | 1000                               | 6         | 8         | 13       | 707            | 1/2 <b>-</b> |            |
| Hawaii                 | -                    | 1      | -       | 19                | 98             |                                    | or in     | 3         | 3        | 263            | 100          |            |
| uam .*                 | -                    | -      | -       | 50                | 15             | -                                  | -         | 11        |          | 20             | _            |            |
| uerto Rico             |                      |        | 17      | 1,830             | 684            | - E 1                              | 8 -       | 4 2       | 3        | 702<br>24      | 3            |            |

\*Delayed reports: Measles: W. Va. 3, Guam I Mumps: Me. 2, W. Va. 3, Guam I Meningococcal infections: W. Va. 1 Rubella: W. Va. delete 2, Ariz. I, Guam 1

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING SEPTEMBER 22, 1973 AND SEPTEMBER 23, 1972 (38th WEEK) - Continued

|                               | TETANUS              |         | CULOSIS      | TULA-              |        | DIOH         |                                       | S-FEVER<br>BORNE | VENEREAL       | LDISEASES                 |         | ES IN        |
|-------------------------------|----------------------|---------|--------------|--------------------|--------|--------------|---------------------------------------|------------------|----------------|---------------------------|---------|--------------|
| AREA                          | age J from J         | (New    | Active)      | REMIA              | FE     | VER          |                                       | potted fever)    | GONOR-<br>RHEA | SYPHILIS<br>(Pri. & Sec.) | ANIM    | IALS         |
|                               | Cumulative<br>1973   | 1973    | Cum.<br>1973 | Cumulative<br>1973 | 1973   | Cum.<br>1973 | 1973                                  | Cum.<br>1973     | 1973           | 1973                      | 1973    | Cum.<br>1973 |
| UNITED STATES                 | 64                   | 620     | 22,972       | 127                | 13     | 507          | 15                                    | 562              | 18,665         | 461                       | 46      | 2,64         |
| EW ENGLAND                    | 2                    | 38      | 837          | 33.2               | 2      | 13           | 1                                     | 2                | 526            | 8                         | _       | 10           |
| Maine                         | _                    | 1       | 68           | -                  | -      | 1            |                                       | -                | 41             | -                         |         | 5            |
| New Hampshire                 |                      | 1       | 44           |                    | -      | -            | -                                     |                  | 23             | -                         | -       | 3            |
| Vermont                       | T I                  | 1<br>29 | 24<br>448    |                    |        | 13           |                                       | 1                | 14<br>263      | 6                         |         |              |
| Rhode Island                  | 1                    | 3       | 70           | -                  |        |              | _                                     |                  | 22             |                           | -       |              |
| Connecticut                   | 1                    | 3       | 183          | -                  | -      | -            | 1                                     | 1                | 163            | 2                         | -       |              |
| IDDLE ATLANTIC                | 7                    | 136     | 4,492        | 1111               | 1      | 50           | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30               | 2,391          | 100                       | 1       | 4            |
| Upstate New York              | í                    | 29      | 801          | _                  | 1      | 8            |                                       | 13               | 354            | 11                        | -       | 1            |
| New York City                 | 3                    | 35      | 1,672        |                    | -      | 18           | -                                     | 4                | 1,458          | 51                        |         |              |
| New Jersey                    | 2                    | 21      | 778          | ura ja ura         |        | 15           |                                       | 5                | 306            | 20                        |         | 2            |
| Pennsylvania                  | 1                    | 51      | 1,241        | At her             |        | 9            | -                                     | 8                | 273            | 18                        | 1       | 4            |
| ST NORTH CENTRAL              | 11                   | 87      | 3,490        | 3                  | 2      | 35           | m (-1)                                | 19               | 2,978          | 31                        | 8       | 26           |
| Ohio                          | 3                    | 21      | 1,042        | -                  | 1      | 15           | -                                     | 14               | 1,379          | 9                         | - 7     | 3            |
| Indiana                       | 2                    | 20      | 468          | C 17               |        | -            | -                                     | ii -             | 271            | 8                         | ~       |              |
| Illinois<br>Michigan          | 3                    | 29      | 1,039        | 1                  | 1      | 8<br>10      | A                                     | 5                | 246<br>845     | 8                         | 2       | •            |
| Wisconsin                     | 1 2                  | 17      | 864          | 2                  | 1      | 2            | _                                     | 16               | 237            | -                         | 6       | 10           |
|                               |                      |         |              |                    |        |              |                                       | 77               |                |                           |         | 100          |
| EST NORTH CENTRAL             | 6                    | 26      | 959          | 14                 | 2      | 23           | 2                                     | 20               | 1,151          | 22                        | 13      | 83           |
| Minnesota<br>lowa             | 11 (1 <del>-</del> 1 | 6       | 117          |                    | 9.71   | 4            | -                                     | 12 -             | 348            | 3                         | 7<br>2  | 30           |
| Missouri                      | 5                    | 6       | 96<br>445    | 13                 |        | 12           | 0 -                                   | 7 7              | 209<br>270     | 18                        | 1       |              |
| North Dakota                  | 1                    | 2       | 34           | 13                 |        | - '2         | 1 1 1                                 |                  | 27             | - 1                       | 3       | 1:           |
| South Dakota                  |                      | 1       | 70           | -                  | -      | 1            | -                                     | 77.              | 51             | 1                         | -       |              |
| Nebraska                      | -                    | 3       | 67           | -                  |        | 1            |                                       | 2                | 112            | -                         | -       | 1            |
| Kansas                        |                      | 5       | 130          | 1                  | 2      | 5            | 2                                     | 4                | 134            |                           | _ T. P. |              |
| OUTH ATLANTIC                 | 13                   | 150     | 4,589        | 15                 | 1      | 235          | 6                                     | 283              | 4,185          | 177                       | 7       | 2:           |
| Delaware                      |                      | 3       | 75           | Davis and          | A -    | -            | V - I                                 | 7                | 103            | 3                         | -       |              |
| Maryland                      | -                    | 17      | 500          | 5                  | -      | 6            | -                                     | 13               | 441            | 5                         | 1       |              |
| District of Columbia Virginia | _ 2                  | 3       | 206          | 3                  | 1      | 3            | 3                                     | 59               | 404<br>526     | 16                        | 4       |              |
| West Virginia                 | ran Zorri            | 22<br>6 | 605<br>219   |                    |        | 2            | 3                                     | 4                | 70             | 22                        | -       |              |
| North Carolina *              | 200                  | 30      | 753          | 2                  | oud.   | 5            | 2                                     | 127              | 367            | 16                        | -       | reason in    |
| South Carolina                | 1                    | 16      | 366          | # <del>-</del>     | - 1    | 6            | 1                                     | 30               | 487            | 50                        | -       | 0.00         |
| Georgia                       | 2                    | 18      | 752          | 3                  | -      | 1            | -                                     | 42               | 732            | 13                        | 2       |              |
|                               | 8                    | 35      | 1,113        | 2                  |        | 212          | N -   -                               | 1 1              | 1,055          | 52                        | - 5.0   |              |
| AST SOUTH CENTRAL             | 7                    | 34      | 2,023        | 10                 | 2      | 37           | 4                                     | 97               | 1,128          | 25                        | 2       | 36           |
| Kentucky                      | i                    | 8       | 477          | 1                  | 2      | 10           | 1 - 1                                 | 160 - 1          | 165            | 5                         | 1       | 19           |
| Tennessee<br>Alabama          | 4                    | 15      | 624          | 7                  | -      | 11           | 3                                     | 48               | 532            | 11                        | -       | 12           |
| Mississippi                   | 2                    | 9       | 541          | -                  | -      | 10           |                                       | 17               | 173            | _                         | - 1     |              |
|                               | -                    | 2       | 381          | 2                  | _      | 6            | 1                                     | 32               | 258            | 9                         | - 61    | - 1          |
| EST SOUTH CENTRAL             | 10                   | 76      | 2,355        | 81                 | _      | 21           | 2                                     | 95               | 2,960          | 54                        | 7       | 46           |
| Arkansas * Louisiana *        | -                    | 14      | 291          | 58                 | ng - i | 3 6          | -                                     | 17               | 159<br>478     | 13                        | 2       | 10           |
| Oklahoma                      | 3 4                  | 15<br>6 | 363<br>200   | 17                 | 149    | 2            | 2                                     | 70               | 239            | 2                         | 2       | 1            |
| Texas                         | 3                    | 41      | 1,501        | 6                  | -      | 10           | -                                     | 8                | 2,084          | 37                        | 2       | 1.           |
| OUNTAIN                       | , Thermal            | M // 10 |              |                    |        |              |                                       |                  |                |                           |         | 1            |
| Montana*                      | Little III           | 14      | 750          | 3                  | 2      | 9            | * Ti                                  | 8                | 751            | 11                        | 4       | to the       |
| Idaho                         | -                    | 1       | 36           | -                  | 1      | 1            | 1 5 1                                 | 1 2              | 49<br>95       | -                         |         |              |
| Wyoming                       | Ī                    | 2       | 28<br>21     |                    | _      | 1            |                                       | 1                | 13             | 1                         |         |              |
| Colorado                      |                      | 6       | 136          | 400-               | 1      | 2            | -                                     | 1                | 292            | i                         | - 121   | 15           |
| New Mexico                    |                      |         | 154          | 1                  | - 1    | 2            | 20-                                   | 3                | 66             | -                         | 2       |              |
| Utah                          | 4 H                  | -       | 291          | -                  | -      | 3            |                                       | 1275             | 178            | 5                         | 1       |              |
| Nevada                        | 1 14                 | 1 3     | 37<br>47     | 2                  |        | 1            |                                       | 11 34            | 33             | 3                         | _       |              |
|                               |                      | ,       | 7′           | 41                 |        |              |                                       |                  |                |                           |         | 4            |
| CIFIC                         | 8                    | 59      | 3,477        | 1                  | 1      | 84           | -                                     | 8                | 2,595          | 33                        | 4       | 3            |
| Washington                    | 2                    |         | 276          | Totale in          | 1      | 7            | Literal.                              | 5                | 252            | 5                         |         |              |
| California                    | 1 5                  | 5<br>44 | 186          | 1                  | 1      | 70           |                                       | 2                | 218            | 26                        | 4       | 2            |
| Alaska                        | _                    | 44      | 76           |                    |        | 4            |                                       | E. E.            | 69             | -                         | -       | - 1          |
| Hawaii                        | -                    | 10      | 214          |                    | m/A =  | 1            | -                                     | -                | 47             | 2                         |         | 1            |
|                               |                      |         |              |                    |        | -            |                                       |                  |                |                           | 1.50    |              |
| am * erto Rico                | - 4                  | 17      | 35           | -                  | -      | 11 10        | -                                     | -                | UID (#         | -                         | 1       |              |
|                               |                      | 4.7     | 356          |                    | -      | 7            | -                                     | -                | 97             | 6                         |         |              |

\*Delayed reports: TB: N. C. delete 3 Tularemia: Ark. 1 Typhoid: Ariz. delete 1 Gonorrhea: La. delete 5, Guam 23 Syphilis: Mont. delete 1, Guam 1 Rabies: Ariz. 1

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING SEPTEMBER 22, 1973

Week No. 38

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

|                      |             | All Causes           | Maria II.       | Pneumonia                    |                                     | A 10.3      | All Causes           | 17 (4) (3)      | Pneumoni                   |
|----------------------|-------------|----------------------|-----------------|------------------------------|-------------------------------------|-------------|----------------------|-----------------|----------------------------|
| Area                 | All<br>Ages | 65 years<br>and over | Under<br>I year | and<br>Influenza<br>All Ages | Area                                | All<br>Ages | 65 years<br>and over | Under<br>I year | and<br>Influent<br>All Age |
|                      |             |                      |                 |                              | SOUTH ATLANTIC                      | 1515        | 839                  | 56              | 62                         |
| NEW ENGLAND          | 690         | 411                  | 27              | 36                           | Atlanta, Ga                         | 145         | 79                   | 5               | 5                          |
| Boston, Mass.        | 201         | 108                  | 11              | 7                            | Baltimore, Md.                      | 245         | 131                  | 16              | 5                          |
| Bridgeport, Conn     | 31          | 13                   | 1               | 2                            | Charlotte, N. C.                    | 44          | 27                   | 2               | - 20 -                     |
| Cambridge, Mass.     | 22          | 17                   | 1               | 4                            | Jacksonville, Fla.                  | 110         | 55                   | 9               | 1                          |
| Fall River, Mass.    | 34          | 21                   | 1               | 1 -1                         | Miami, Fla.                         | 110         | 46                   | 2               | 6 3                        |
| Hartford, Conn.      | 63          | 34                   | 1               | 2                            | Norfolk, Va.                        | 92          | 19<br>49             | 4               | 12                         |
| Lowell, Mass.        | 28<br>22    | 16                   | 2               | 2                            | Richmond, Va.                       | 31          | 11                   | 4               | 2                          |
| New Bedford, Mass.   | 31          | 22                   |                 | - 1                          | Savannah, Ga.                       | 129         | 109                  | 3               | 6                          |
| New Haven, Conn.     | 62          | 39                   | 4               | 2                            | St. Petersburg, Fla                 | 79          | 44                   | 4               | 7                          |
| Providence, R. I.    | 53          | 32                   | 2               | 6                            | Washington, D. C.                   | 429         | 236                  | 4               | 14                         |
| Somerville, Mass.    | 10          | 6                    | _               | _                            | Wilmington, Del.                    | 60          | 33                   | 1440            | 1                          |
| Springfield, Mass.   | 56          | 34                   | 1               | 7                            |                                     | K 1114      |                      |                 |                            |
| Waterbury, Conn      | 25          | 17                   | 2               | 2                            | EAST SOUTH CENTRAL                  | 691         | 361                  | 25              | 30                         |
| Worcester, Mass.     | 52          | 32                   | 1               | 1                            | Birmingham, Ala                     | 110         | 66                   | 3               | 1                          |
|                      |             |                      |                 |                              | Chattanooga, Tenn.                  | 57          | 29                   | 1               | 3                          |
| IDDLE ATLANTIC       | 3185        | 1937                 | 99              | 166                          | Knoxville, Tenn.                    | 39          | 24                   | 203-277         | -                          |
| Allentown Bo         | 48          | 36                   | 2               | -                            | Louisville, Ky.                     | 162         | 79                   | 5               | 10                         |
| Allentown, Pa        | 30          | 21                   | -               | 4                            | Memphis, Tenn,                      | 125         | 69                   | 5               | 4                          |
| Buffalo, N. Y.       | 133         | 72                   | 8               | 4                            | Mobile, Ala.                        | 61          | 28                   | 4               | 3                          |
| Elizabeth, N. J.     | 41          | 20                   | 2               | 4                            | Montgomery, Ala.                    | 48          | 24                   | 2               | 4                          |
| Erie, Pa.            | 23          | 14                   | -               | 1                            | Nashville, Tenn.                    | 89          | 42                   | 5               | 4                          |
| Jersey City, N. J.   | 29<br>63    | 19<br>40             | 3<br>6          | 1                            | WEST SOUTH CENTRAL                  | 1168        | 648                  | 59              | 39                         |
| Newark, N. J.        | 71          | 27                   | 8               | 2                            | Austin, Tex.                        | 44          | 23                   | 2               | 3                          |
| New York City, N. Y. | 1681        | 1047                 | 37              | 92                           | Baton Rouge, La.                    | 42          | 26                   | - î             | 2                          |
| Paterson, N. J.      | 36          | 21                   | 1               | 72                           | Corpus Christi, Tex.                | 29          | 15                   | 4               | 1                          |
| Philadelphia, Pa     | 489         | 286                  | 15              | 30                           | Dallas, Tex.                        | 159         | 95                   | 5               | 2                          |
| Pittsburgh, Pa.      | 171         | 100                  | 9               | 8                            | El Paso, Tex.                       | 58          | 32                   | 6               |                            |
| Reading, Pa          | 33          | 22                   | 1               | 5                            | Fort Worth, Tex.                    | 71          | 42                   | 2               | 3                          |
| Rochester, N. Y.     | 99          | 63                   | 1               | 7                            | Houston, Tex.                       | 187         | 89                   | 7               | 4                          |
| Schenectady, N. Y.   | 20          | 15                   | - 1             | -                            | Little Rock, Ark                    | 47          | 33                   | 2               | 2                          |
| Scranton, Pa         | 36          | 20                   | _               | 2                            | New Orleans, La                     | 149         | 76                   | 7               | 4                          |
| Syracuse, N. Y.      | 79          | 46                   | 7               | -                            | Oklahoma City, Okla. *              | 82          | 49                   | 4               | 2                          |
| Trenton, N. J.       | 38          | 24                   |                 | 4                            | San Antonio, Tex                    | 137         | 70                   | 10              | 3                          |
| Utica, N. Y          | 28<br>37    | 20<br>24             | 7 5             | -                            | Shreveport, La                      | 109         | 68                   | 5               | 4                          |
| AST NORTH CENTRAL    |             | 1871                 | 2 VB1           |                              | MOUNTAIN                            | 1311        | 1,24                 | 40              | 11                         |
| Akron, Ohio          | 2450        | 1389                 | 104             | 65                           | Albuquerque, N. Mex.                | 528<br>42   | 288<br>19            | 3               | 2                          |
| Canton, Ohio         | 71          | 37<br>26             | 5               | 3                            | Colorado Springs, Colo.             | 31          | 20                   | 1               | 3                          |
| Chicago, III.        | 39<br>635   | 316                  | 36              | 13                           | Denver, Colo.                       | 144         | 76                   | 27              | 3                          |
| Cincinnati, Ohio     | 200         | 113                  | 9               | 3                            | Las Vegas, Nev.                     | 21          | 9                    | 2               | -                          |
| Cleveland, Ohio      | 208         | 111                  | 6               | 6                            | Ogden, Utah                         | 22          | 16                   | 87.00 ETC       | 1                          |
| Columbus, Ohio       | 92          | 60                   | 4               | 6                            | Phoenix, Ariz.                      | 123         | 59                   | 7               | -                          |
| Dayton, Ohio         | 103         | 68                   | 4               | 4                            | Pueblo, Colo.                       | 20          | 12                   | 1               |                            |
| Detroit, Mich.       | 323         | 191                  | 7               | 7                            | Salt Lake City, Utah                | 58          | 36                   | _               | -                          |
| Evansville, Ind.     | 34          | 24                   | 2               | _                            | Tucson, Ariz.                       | 67          | 41                   | -               |                            |
| Fort Wayne, Ind.     | 53          | 23                   | 4               | 2                            | and a second section of the         |             |                      |                 |                            |
| Gary, Ind.           | 37          | 21                   | 2               | 1                            | PACIFIC                             | 1675        | 1004                 | 57              | 4.                         |
| Grand Rapids, Mich.  | 56          | 30                   | 1               | 4                            | Berkeley, Calif                     | 12          | 7                    | 1               |                            |
| Indianapolis, Ind    | 150         | 90                   | 7               | 3                            | Glendale, Calif.                    | 58          | 33                   | 7               |                            |
| Milwaukee, Wis.      | 40          | 23                   | 2               | 4                            | Honolulu, Hawaii                    | 23          | 20                   | -               | 300                        |
| Peoria, III.         | 123         | 86                   | 2               | 1 1 1                        | Long Beach, Calif.                  | 51          | 25                   | 6               |                            |
| Rockford, Ill.       | 35          | 21                   | 4               | 4                            | Los Angeles, Calif.                 | 107<br>517  | 70<br>336            | 13              | 1.                         |
| South Bend, Ind.     | 33<br>49    | 20<br>28             | - 14            | 1 3                          | Oakland, Calif.                     | 80          | 37                   | 6               |                            |
| Toledo, Ohio         | 106         | 62                   | 2               | _                            | Pasadena, Calif                     | 33          | 21                   | 1 1             | 199                        |
| Youngstown, Ohio     | 63          | 39                   | 5               | _                            | Portland, Oreg.                     | 149         | 78                   | 4               |                            |
|                      | 0.5         | 100 to 11            | 5 494           | 0.78343                      | Sacramento, Calif.                  | 66          | 33                   | 4               | 1031                       |
| ST NORTH CENTRAL     | 774         | 489                  | 36              | 20                           | San Diego, Calif.                   | 143         | 79                   | 9               | 1                          |
| Des Moines, Iowa     | 41          | 31                   | Y. 141          |                              | San Francisco, Calif                | 155         | 96                   | 2               | 4                          |
| Duluth, Minn         | 23          | 15                   | 1               | 2                            | San Jose, Calif                     | 48          | 27                   | 1               |                            |
| Kansas City, Kans    | 40          | 19                   | 2               | 2                            | Seattle, Wash                       | 132         | 75                   | 2               |                            |
| Kansas City, Mo      | 130         | 90                   | 8               | i                            | Spokane, Wash                       | 56          | 41                   | 110             |                            |
| Lincoln, Nebr.       | 16          | 10                   | 2               | 1                            | Tacoma, Wash                        | 45          | 26                   | -               | 135                        |
| Minneapolis, Minn.   | 114         | 74                   | 7               | 4                            |                                     |             |                      |                 |                            |
| Omaha, Nebr.         | 77          | 51                   | 6               | 1                            | Total                               | 12,676      | 7,366                | 503             | 474                        |
| St. Louis, Mo        | 189         | 108                  | 3               | 3                            | Expected Number                     | 12,082      | 6,836                | 543             | 390                        |
| Wichita, Kans.       | 65<br>79    | 46<br>45             | 4 3             | 5                            | Cumulative Total (includes reported |             |                      |                 |                            |
|                      | /9          | 43                   |                 | )                            | corrections for previous weeks)     | 90,520      | 288,578              | 18,336          | 19,964                     |

†Delayed report for week ending Sept. 15, 1973
\*Estimate based on average percent of divisional total

#### MEASLES - Continued

more cases of measles in third-grade students attending the first school. Case 4 was in an 8 1/2-year-old girl who had onset of symptoms on June 3. Case 5 was in a 9-year-old girl who became ill on June 6; she had received further attenuated measles vaccine when she was 6 months of age. Epidemiologic follow-up investigation identified 2 additional measles cases in contacts of the 9-year-old: a 6 1/2-year-old male student (Case 6) at the first school who became ill on June 6 and his 2-year-old sister (Case 7) who had onset of symptoms on June 19. Case 6 had received inactivated measles vaccine at approximately 18 months of age; Case 7 had never received measles vaccine.

The school health records of children in kindergarten through sixth grades at this elementary school were subsequently reviewed, and any child who did not have a history of measles vaccination was investigated; no new cases were uncovered. The school closed for summer vacation on June 8.

Further investigation revealed that on April 28 the index case and his family had taken a vacation trip to Florida and had visited Orlando, Daytona Beach, and Palatka, returning home on May 12. On May 14 the son became ill, and on May 15 he was diagnosed as having measles.

(Reported by Gilbert Fisher, Immunization Program Representative, George Pelletier, Public Health Advisor, Edmund Rodriquez, Prince George's County Health Department; A. O. Woodie, M.D., Charles County; Wayne R. Bobbitt, Jr., Public Health Advisor, John D. Stafford, M.D., State Epidemiologist, Maryland State Department of Health.)

### GASTROINTESTINAL DISEASE AT A PRIVATE CAMPSITE – Maryland

Between May 15 and 21, 1973, 52 of 66 school children who had been camping at a site in Carroll County, Maryland, became ill. Symptoms included vomiting (79%), headache (62%), fever (48%), diarrhea (44%), coryza (38%), cramps (29%), and sore throat (8%).

The times of onset of illness suggested a common-source exposure (Figure 1); however, histories of food consumption at the camp failed to implicate food as a vehicle. Cultures of stool specimens from affected campers were negative for Salmonella, Shigella, Bacillus, and strains of enteropathogenic Escherichia coli identifiable with commercially produced antisera. Samples of food and drinking water from the camp and of water from streams at the campsite were negative for the same organisms. Analysis of representative serum specimens failed to reveal any enteric virus titers.

A telephone and questionnaire survey of household contacts of the campers revealed a 14% attack rate of gastro-intestinal illness among 205 contacts of ill children. None of 45 household contacts of campers who had not become ill reported illness. The epidemic curve of presumed secondary cases suggested that the illness had spread explosively among the families of contacts (Figure 1).

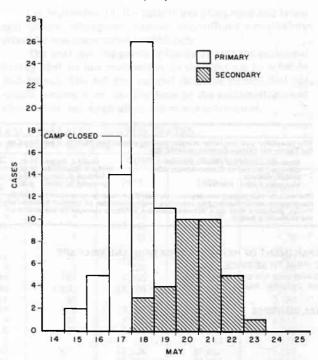
Four other outbreaks of gastrointestinal illness had been associated with the same campsite in the preceding 2 years. In all 5 instances several days of heavy rainfall at the campsite had preceded the outbreaks.

(Reported by James Naylor, R.S., Sanitarian, E. Maxine Fritz, R.N., Chief, Public Health Nursing, Willa Tommaney, M.D., Health Officer, Carroll County Health Department; Elizabeth Petran, Ph.D., Chief, Division of Microbiology, Mary Jo Garris, R.S., Sanitarian, Ron Nelson, R.S., Sanitarian, John D. Stafford, M.D., Chief, Division of Communicable Diseases, Maryland Department of Health and Mental Hygiene; and an ElS Officer.)

## **Editorial Note**

The syndrome in this outbreak is compatible with a clinical entity variously known as winter vomiting disease, epidemic collapse, epidemic diarrhea and vomiting, or epidemic nausea and vomiting. The significance of heavy rainfall before each outbreak and the recurrence of the problem in a single geographical area is unknown. There has recently been increasing interest in the possibility that similar outbreaks may be due to 1 or more yet uncharacterized enteric

Figure 1
CASES OF GASTROINTESTINAL DISEASE BY DATE OF ONSET
CARROLL COUNTY (MD.) CAMPSITE – MAY 1973



viruses (1, 2, 3). Recognized bacterial pathogens that are not routinely looked for such as enteropathogenic *E. coli* not identifiable with commercial antisera may also be responsible for some outbreaks of gastrointestinal illness of obscure etiology.

#### References

- 1. Agus SG, Dolin R, Wyatt RG, et al: Acute infectious nonbacterial gastroenteritis: intestinal histopathology. Ann Intern Med 79:18-25, 1973
- 2. Blacklow NR, Dolin R, Fedson DS, et al: Acute infectious nonbacterial gastroenteritis: etiology and pathogenesis. Ann Intern Med 76: 993-1008, 1973
- 3. Kapikian AZ, Wyatt RG, Dolin R, et al: Visualization by immune electron microscopy of a 27-nm particle associated with acute infectious nonbacterial gastroenteritis. J Virol 10:1075-1081, 1972

#### WAREHOUSE INSPECTION OF CANNED MUSHROOMS - United States

On September 25, 1973, the Food and Drug Administration (FDA) announced the initiation of a nationwide visual inspection of all commercially canned mushrooms in stock in warehouses. Laboratory tests will be conducted on all abnormal cans to find out if they are contaminated with botulinal toxin.

(Reported by the Food and Drug Administration; and the Bacterial Diseases Branch, Bureau of Epidemiology, CDC.) **Editorial Note** 

This inspection has been undertaken because 5 com-

mercially canned mushroom products contaminated with botulinal toxin have been recalled so far this year (MMWR, Vol. 22, Nos. 7, 10, 13, 14, 29, and 37). Earlier this year, FDA evaluated all mushroom processing plants in the United States. FDA has worked with the companies to make necessary production improvements and has instituted new mandatory production safeguards.

As reported previously, only 1 case, nonfatal, has been associated with these products (MMWR, Vol. 22, No. 29).

The Morbidity and Mortality Weekly Report, circulation 36,000, is published by the Center for Disease Control, Atlanta, Ga.

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

David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D. Deborah L. Jones, B.S.

Mrs Mary F Jackson, Library Center for Disease Control

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.

3-G-19-08

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.

Address all correspondence to:

Center for Disease Control Attn: Editor Morbidity and Mortality Weekly Report Atlanta, Georgia 30333

DHEW Publication No. (CDC) 74-8017

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

OFFICIAL BUSINESS

U.S. DEPARTMENT OF HEW **HEW 396** 

