

Vol. 15, No. 18

WEEKLY

Week Ending April 9, 1966

U.S. DEPARTMENT OF HEALTH EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

EPIDEMIOLOGIC NOTES AND REPORTS ENCEPHALOPATHY - Maryland

Between March 1 and March 9, 1966, four children in Baltimore, Maryland, developed severe encephalopathy of unknown etiology. The patients lived in widely separated areas in and around Baltimore and, other than the dates of onset being within a 9-day period of time, there appears to have been no common relationship. As shown in Table 1, the ages of the patients were 5 years, 8 years, 9 years, and 11 years respectively; the last was the only female. Three of the patients died within 3 days of the onset of the illness; the fourth patient died 13 days after onset, following 8 days in coma.

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Characteristically, the patients were previously healthy children who experienced a mild prodromal illness, lasting 2 to 5 days, which consisted of fever, headache, general malaise, nausea and vomiting. Two of the patients then experienced a distinct period of improvement during (Continued on page 118)

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

| and the state of t | 14th WE | EK ENDED | MEDIAN | CUMULATIVE, FIRST 14 WEEKS | | | | | |
|--|------------------|--|-----------------------|----------------------------|--------------|-----------------------|--|--|--|
| DISEASE | APRIL 9, 1966 | APRIL 10, 1965 | MEDIAN 1961 – 1965 | 1966 | 1965 | MEDIAN 1961 – 1965 | | | |
| Aseptic meningitis | 23 | 29 | 29 | 389 | 415 | 324 | | | |
| Brucellosis Diphtheria | 4 | 4 | 10 | 50 | 54 | 91 | | | |
| Diphtheria | 5 | 5 | 6 | 40 | 62 | 91 | | | |
| Incephalitis, primary: | | J000465 | the second second | Annual Section | O HEALTH A | | | | |
| Arthropod-horne & unspecified | 28 | 28 | | 327 | 417 | | | | |
| alcephalitis post-infectious | 20 | 17 | in office 2. will | 229 | 204 | | | | |
| Tepatitis, serum Tepatitis, infectious. Teasles (rubeola) | 39 621 | 725 | 892 | 335 9,825 | 11,036 | 14,697 | | | |
| leasles (rubeola) | 7,561 | 11,920 | 15,907 | 101,694 | 128,735 | 166,302 | | | |
| Table 1 of St. Control of the street of the | en vici sez | Tim-state | 2 | 6 | 6 | 40 | | | |
| - mtatAftC | | - | 2 | 5 | 4 | 35 | | | |
| Chiparalytic | _ | | | | 2 | | | | |
| Ingococcal infections Total | 121 | 78 | 58 | 1,423 | 1,212 | 844 | | | |
| -44IIIAU | 107 | 70 | | 1,232 | 1,115 | ill lessible | | | |
| Military | 14 | 8 | | 191 | 97 | | | | |
| Military ubella (German measles) | 1,753 | The Late of the la | | 18,935 | 10/19 | T COMMITTEE | | | |
| | 10.510 | 11,553 | 9.790 | 164,878 | 157,837 | 139,570 | | | |
| | 10,010 | 11,000 | 0,100 | 25 | 51 | 133,310 | | | |
| ularemia | | i | | 47 | 55 | | | | |
| ularemia yphoid fever yphys tight barro (Div. Mr. Coattal fram.) | 4 | 5 | Q | 72 | 94 | 04 | | | |
| yphus, tick-borne (Rky. Mt. Spotted fever) | pall plant light | | | 9 | 6 | 94 | | | |
| Rabies in Animals | | | 101 | 1 10 | ni firi degi | | | | |
| Animais | 95 | 114 | 101 | 1,184 | 1,432 | 1,112 | | | |

NOTIFIABLE DISEASES OF LOW FREQUENCY

| The state of the s | Cum. | | Cum. |
|--|---------------|--|------|
| Anthrax: Leptospirosis: Malaria: N.J1, N.C2, Va1, Ky1, Calif1 Psittacosis: N.C1 Typhus, murine: Ark1, Texas-1, P.R1 | 9 83 14 | Botulism: Trichinosis: N.Y.C1, Pa1, Ind1, Minn1, Iowa-1 Rabies in Man: Colo1 Rubella, Congenital Syndrome: Minn1 | 31 |

EPIDEMIOLOGIC NOTES AND REPORTS ENCEPHALOPATHY - Maryland

(Continued from front page)

one day. All four patients subsequently developed lethargy, disorientation, delirium, stupor and convulsions. A rapid downhill course within 24-36 hours resulted in respiratory arrest and death in three instances; the patient who survived for 13 days was in a respirator for 8 days (Table 1).

The white blood counts among the four patients were 10, 15, 16 and 20 thousand, respectively. None of the patients were hypoglycemic on hospital admission. Three of the four patients had atraumatic spinal taps, and less than 7 white blood cells were seen in each sample of cerebrospinal fluid. Serum transaminase determinations were performed on one of the patients, and values ranged from 200 to 300 Karmen Units. That patient's bilirubin was normal. None of the four patients had palpable livers or were clinically jaundiced.

On postmortem examination marked cerebral edema with flattening of the cerebral convolutions was found in all cases. The brain tissue has since been examined microscopically in three of the cases but infiltration of inflammatory cells was not observed. The liver of one of the patients on gross examination was pale and swollen, and on microscopic examination there was extensive fatty infiltration. This fatty change also appeared in the proximal tubules of the kidney. The fatty change in both organs was uniformly distributed in fine droplets. Two other patients, however, showed only minimal fatty changes in these organs. To date, only the liver of the fourth patient has been examined microscopically and it has shown no fatty infiltration. Histological studies are continuing.

Virological and toxicological studies are currently in progress, although there is neither a uniform history of exposure to other illnesses nor any history of common exposure to drugs or potiential toxic agents.

(Reported by Dr. John H. Janney, State Epidemiologist, Maryland State Health Department; and an EIS Officer.)

Editorial Note:

These cases bear a striking similarity to a syndrome that has recently been reported from many parts of the

world¹⁻⁴. This syndrome is characterized by an initial febrile illness with upper respiratory symptoms, vomiting, lethargy, convulsions, diffuse nonlocalizing neurological signs, progressing rapidly into coma with disturbed respiratory rhythm and death. Laboratory findings frequently include hypoglycemia and low CSF glucose. There is usually an absence of cells in the cerebrospinal fluid. On postmortem examination there is massive cerebral edema without the inflammatory changes in the brain tissue characteristic of viral encephalitis. There is extensive fatty infiltration of the liver and proximal renal tubules. In spite of the marked fatty change observed in these organs, the cellular architecture is usually retained without the presence of areas of necrosis.

While clinical courses and physical findings of the four Maryland cases closely resembled this syndrome, they were not characterized by low blood or CSF glucose. There was marked cerebral edema without inflammatory changes in the brain tissue, but only one case showed the fatty infiltration of the liver and the proximal renal tubules. The uniform occurrence of a prodromal febrile illness and a subsequent course compatible with clinical encephalitis both support the hypothesis of infectious etiology. However, absence of inflammatory changes in the brain tissue and the lack of uniform success of viral isolation attempts does not support this hypothesis. Likewise no evidence has been elicited of a common toxic exposure. The etiology of this syndrome remains obscure.

References

- Golden, G. S., and Duffell, D.: Encephalopathy and fatty change in the liver and kidney. Pediatrics 36:67, 1965.
- Randolph, M., and others: Encephalopathy, hepatitis and fatty accumulation in viscera. Amer J Dis Child 110:95, July 1965.
- Reye, R. D. K., and others: Encephalopathy and fatty degeneration of the viscera: A disease entity in childhood. Lancet:749, Oct. 12, 1963.
- Utian, H. L., and others: "White liver" disease. Lancet: 1042, Nov. 14, 1964.

Table 1

| Patient | Age and Sex | | Death | Fever | Headache | Nausea | Vomiting | Cough | Rhinorrhea | | Abdominal Pains | | Convulsions |
|---------|----------------|-------|-------|-------|------------|--------|----------|-------|------------|---|--------------------|-----------------|----------------|
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| 4. | 11F | 3, 10 | 3, 13 | + | 4 | + | + | 2 | | | The Marty | ALC: A PROPERTY | + |

CURRENT TRENDS - INFLUENZA

Several additional States have reported laboratory confirmed influenza outbreaks during the past week. Oregon and Utah have both reported type A2 virus isolations. The Arizona and Montana outbreaks have been confirmed serologically as due to type A. In Nebraska a type B epidemic in a rural area has been confirmed with several isolates also obtained from sporadic cases in Omaha. In California where a major A2 outbreak has been occurring this year, there have been several isolates of type B virus made simultaneously in the San Francisco area which are not associated with outbreaks otherwise confirmed as type B. The influenza-like illness which occurred in eastern Tennessee has now been confirmed serologically as type B influenza (MMWR, Vol. 15, No. 11).

Excess mortality due to influenza and pneumonia deaths as measured in 122 United States cities continues to decline, although still remaining above the epidemic threshold. Correlating with this is the decline in mortality in the Mountain and Pacific Regions.

(Reported by the Influenza-Respiratory Disease Unit, CDC.)

Nebraska

An outbreak of influenza-like illness occurred in the school district of Polk, approximately 60 miles west of Lincoln, Nebraska, during the last week of February and the first 2 weeks of March. Common symptoms were malaise, aching of the muscles of the neck, arms and legs, with fever, chills and headache; rhinorrhea, ocular pain and conjunctivitis occurred later in some instances. Some of the children affected had headache, fever and mild sore throat for one day, felt well enough to return to school the next day and then had a relapse. Generally the illness lasted for 4 days to one week and there was some residual fatigue thereafter.

The most striking feature of the outbreak was the excessive rate of absenteeism from the high school. From March 7 through March 10, 55 of 105 high school students were absent with a peak of 39 absences on March 10. There was much less absenteeism in the elementary school where an additional factor was an outbreak of chickenpox in the primary grades.

On March 12 and 13 a telephone survey of 73 families was made to determine the extent of the epidemic. Table 2 shows the attack rate by age of the 233 individuals covered by the survey. The overall attack rate was 23 percent; the highest rate, 57 percent, occurred in the 15 to 19 year age group.

Type B influenza virus has been isolated from this outbreak.

(Reported by Dr. E.A. Rogers, Director of Health, Nebraska Department of Health; and EIS Officers from the CDC Kansas City Field Station.)

Table 2
Attack Rates By Age From A Telephone Survey
of 73 Families
Polk, Nebraska, 1966

| Age Group | Number Ill | Number Persons | Percent III |
|-----------|------------|----------------------|-------------|
| 0-4 | 2 | d or cut 14 mes mans | 14 |
| 5-9 | 9 | 22 | 41 |
| 10-14 | 9 | 24 | 37 |
| 15-19 | 17 | 30 | 57 |
| 20-39 | 3 | 39 | 8 |
| 40-59 | 8 | 59 | 14 |
| 60+ | 5 | 45 | 11 |
| Total | 53 | 233 | 23 |

Maine

A small outbreak of type B influenza occurred at the U.S. Naval Air Station in Cumberland County, Maine, in February 1966. The outbreak was first suspected during the week of February 6 when increased numbers of febrile respiratory illness were seen in the Station's medical clinics serving both military personnel and their dependents. Although the total number of clinic visits by military personnel increased only slightly, the proportion of individuals with illnesses suggestive of influenza accounted for approximately one-third of these visits. During the following week, the prevalence of the influenza-like disease persisted at the increased level and thereafter declined.

Epidemiological investigations, which included a review of medical records, of 492 of 720 (68.3 percent) military personnel who reported to sick call between February 1 and 28, showed that 195 (20.5 percent) had an oral temperature of 100° F. or more at the time of the first visit to the clinic. Approximately two-thirds of the total 492 individuals had received influenza vaccine. The same proportion of vaccination was observed both among persons reporting influenza-like illnesses and those reporting non-respiratory diseases.

Specimens for virus isolation and serological testing were collected from 23 suspect influenza cases during the acute phase of illness. Type B influenza virus has been identified from one of the specimens and serological evidence of type B infection demonstrated in 9 of 16 patients from whom acute-convalescent serum specimens were obtained.

(Reported by Captain R.J. Martin, M.C., Senior Medical Officer, Naval Air Station Hospital, Brunswick, Maine; Captain Jack Millar, Director, Preventive Medicine Division, Department of the Navy, Washington, D.C., and an epidemiological team from CDC.)

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED APRIL 9, 1966 AND APRIL 10, 1965 (14th WEEK)

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Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED APRIL 9, 1966 AND APRIL 10, 1965 (14th WEEK) · CONTINUED

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| UNITED STATES | 7,561 | 101,694 | 128,735 | 121 | 1,423 | 1,212 | - 1 | 1000 | 100 | 5 | 1,753 | |
| NEW ENGLAND | 107 | 1,245 | 25,746 | 7 | 71 | 63 | | | | | 105 | |
| Maine | 3 | 146 | 1,936 | í | 7 | 8 | | 1.0 | | Heren 199 | 195 18 | |
| New Hampshire | 8 | 20 | 325 | | 7 | 4 | 4151 | 1 7 | | 100 000 | 2 | |
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| New York City | 372 | 6,388 | 480 | 7 - | 23 | 25 | - | - | | 10000 | 32 | |
| New York, Up-State. | 79 | 1,283 | 1,691 | 4 | 36 | 37 | | - 0 | E 9 | ADDRESS OF THE PARTY. | 94 | |
| New Jersey | 56 | 1,351 | 873 | 5 | 46 | 54 | - | -10 | | Harrison Hally | 10 000 | |
| Pennsylvania | 159 | 3,460 | 2,012 | 8 | 44 | 43 | - | -0 | | Contractific | 2 | |
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| Ohio | 275 | 2,975 | 5,038 | 7 | 58 | 41 | - | _ | 7 - | | 40 | |
| Indiana | 113 | 2,380 | 989 | i | 30 | 19 | | -10 | 10 _ 1 | 11/1/11/11 | 82 | |
| Illinois | 425 | 8,075 | 935 | 2 | 40 | 37 | | 1 3 | 10 | | | |
| Michigan | 509 | 6,363 | 12,849 | 6 | 60 | 25 | - 4 | 1.5 | | | 110 104 | |
| Wisconsin. | 1,318 | 19,294 | 4,311 | 5 | 21 | 23 | | | | | 339 | |
| | 1,510 | 17,294 | 7,511 | | | 23 | | 1 7 | | 1 | 339 | |
| EST NORTH CENTRAL | 457 | 4,744 | 9,746 | 7 | 74 | 65 | | -16 | | JACKS | 135 | |
| Minnesota | 40 | 1,233 | 313 | 4 | 19 | 14 | | -19 | | dance of the | 6 | |
| Iowa | 385 | 2,440 | 5,283 | 1 | 12 | 1 | - | - 90 | | dance- | 121 | |
| Missouri | 11 | 314 | 1,442 | 2 | 29 | 34 | - | | | | 4 | |
| North Dakota | 21 | 712 | 2,426 | | 3 | 3 | | - 1 | - | | 1 | |
| South Dakota | - 1- | 3 | 55 | - 11- 1 | 2 | 2 | _ | -16 | - | | | |
| Nebraska | - 1- 2 | 42 | 227 | - 1 | 3 | 4 | | | - | | 3 | |
| Kansas | NN | NN | NN | - 1 - 2 | 6 | 7 | | 14 | - | | | |
| OUTH ATLANTIC | 388 | 7,844 | 15,474 | 19 | 233 | 243 | 112 | 2 | | , | | |
| Delaware | 5 | 104 | 286 | 1 | | | 1 1 2 | | - | 1 | 93 | |
| Maryland | 63 | 1,251 | | | 3 | 3 | | 4 - 9 | - | | | |
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| Virginia | 54 | 751 | 2,362 | 2 | 31 | 27 | | | - | 101-101-101 | 15 | |
| West Virginia | 119 | 3,106 | 9,549 | | 8 | 16 | - | 1-13 | - | | 23 | |
| North Carolina | 3 | 138 | 170 | 5 | 46 | 36 | - | - 1 | - | 4 H | | |
| South Carolina | 51 | 384 | 607 | 3 | 33 | 35 | - | -13 | | ALL SHELDS | 14 | |
| Georgia | 15 | 167 | 430 | 5 | 39 | 33 | - | | | 1 | + | |
| Florida | 78 | 1,648 | 1,498 | 1 | 44 | 63 | - 5 h | 17.5 | - 1 | 9-24-5 | 24 | |
| AST SOUTH CENTRAL | 621 | 11,265 | 7,546 | 5 | 116 | 76 | 0.00 | | 10.7 -1 | - William | 94 | |
| Kentucky | 167 | 3,558 | 953 | F (- 7.9 | 53 | 29 | _ | | - | | 24 | |
| Tennessee | 425 | 6,450 | 4,537 | 2 | 35 | 23 | | - 9 | | | 65 | |
| Alabama | 17 | 766 | 1,492 | 2 | 21 | 18 | | 1.0 | | | 5 | |
| Mississippi | 12 | 491 | 564 | ī | 7 | 6 | | - 3 | _ | | | |
| | | | | | | | | | | | | |
| EST SOUTH CENTRAL | 1,283 | 11,211 | 17,605 | 16 | 221 | 204 | - | | | 3 | 8 | |
| Arkansas | 53 | 375 | 825 | 45 J. It 🗎 | 12 | 10 | | 5.3 | - | ****** | 1 | |
| Louisiana | 1- 1- | 59 | 43 | 4 | 88 | 114 | | 19 | | -12 | - | |
| Oklahoma | 52 | 231 | 111 | 2 | 9 | 16 | | - 2 | | 1 | 100 | |
| Texas | 1,178 | 10,546 | 16,626 | 10 | 112 | 64 | - | 7.0 | | 2 | 7 | |
| OUNTAIN | 586 | 5,431 | 10,130 | 1 | 42 | 44 | - | - | T | in more than | 146 | |
| Montana | 89 | 818 | 2,615 | - I I - V | 3 | 1 | 17 | -3 | - | grania di | 14 | |
| Idaho | 50 | 587 | 1,511 | 1 2 - 1 | 1 | 7 | 13 | 1-70 | 10.0 | decoration | | |
| Wyoming | | 72 | 539 | E 4 F 9 | 1 | 2 | 3 - | | - | B 100 La 12 L | 444 | |
| Colorado | 50 | 600 | 1,849 | E 11 - 1 | 22 | 10 | | -10 | | H000011-011 | 13 | |
| New Mexico | 66 | 302 | 335 | - 1 | 6 | 6 | - | 10.00 | | -1 | 100,00 | |
| Arizona | 309 | 2,867 | 389 | | 7 | 11 | 17 | 1 E E | W - I | il in the second | 118 | |
| Utah | . 5 | 161 | 2,808 | , 4 - 0 | - | 5 | | 154 | 10.0 | The P | 1 | |
| Nevada | 17 | 24 | 84 | 1 | 2 | 2 | 1 -1 | - 13 | - 1 | 1 P | | |
| ACIPIC | 813 | 8,385 | 13,310 | 28 | 308 | 213 | | | 114 4 | 1 | 279 | |
| Washington | 83 | 1,710 | 3,943 | 1 | 17 | 15 | | -0 | 4 - | 1 | 77 | |
| Uregon. | 52 | 661 | 1,921 | î | 13 | 17 | | 10 10 | - | | 48 | |
| California | 654 | 5,911 | 5,906 | 25 | 262 | 174 | 4-1 | - | | | 148 | |
| Alaska | 24 | 50 | 97 | i | 13 | 4 | 7 | 1111111 | 7 195 | 1 | 6 | |
| Hawaii. | 17 | 53 | 1,443 | 1 | 3 | 3 | | | | | | |
| uerto Rico | | | | | 3377 | | 10-20- | 1211 60 91 | 10.00 | | | |
| - NEU KICA | 167 | 1,268 | 830 | - | 2 | 3 | - | and a second | | OF STATE AND | 1 | |

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

APRIL 9, 1966 AND APRIL 10, 1965 (14th WEEK) - CONTINUED

| AREA | STREPTOCOCCAL SORE THROAT & SCARLET FEVER | TETA | ANUS | TULA | REMIA | TYP | HOID | TICK- | FEVER -BORNE -Spotted) | | ES IN MALS |
|-----------------------------|---|----------|--|--------------------------|-----------------|----------|--------------|--------------------|---|-------------|---------------|
| AREA | 1966 | 1966 | Cum. 1966 | 1966 | Cum. 1966 | 1966 | Cum. 1966 | 1966 | Cum. 1966 | 1966 | Cum. 1966 |
| UNITED STATES | 10,510 | 1 | 25 | 1 - 13 | 47 | 4 | 72 | | 9 | 95 | + |
| | | 7 | | | | 3.1 | /2 | 100 | | 93 | 1,184 |
| NEW ENGLAND | 1,665 | 11.7 | 2 | 9 - 35 | 1 | 1-33 | 3 | | | 1000 | 12 |
| Maine | 113 | 10.7 | 1.5 | 4 - 3 | - | 12/19 | 118 200 | | | | |
| New Hampshire | 66 | 17.5 | 1.84 | 13-5 | 1.1 - 7 | - 2 | 2 | | | | 5 |
| Vermont. | 37 | 11.7- | 1.55 | 1 - 5 | - | - 73 | | | | (H 0-21) | 7 |
| Massachusetts | 326 | 1 3 | 2 | | 1 | - | 17. 1 | | | - 1 | - |
| Rhode Island Connecticut | 197 926 | | -15 | 0. | | 1.0 | 3 | | 100 | - 110 | |
| MIDDLE ATLANTIC | 483 | | 4 | - 54 | | 1 | | uced T a | D . | 200 | 73 722 |
| New York City | 35 | 100 | 3 | 1 1 65 | | 1 1 | 17 | 1 3 | 1 | 4 | 86 |
| New York, Up-State. | 310 | - 4 | | - 96 | - 11 | - | 3 | | | 4 | 81 |
| New Jersey | NN | | 120 | 11 2 3 3 3 3 | 1 1 1 | - 0.1 | 3 | | 1.00 | 4 | 91 |
| Pennsylvania | 138 | 11 - 3 | 1 | 31 14 35 | 18 - 1 | 2 1/ | 3 | | 1 | 10 10 10 10 | 5 |
| EAST NORTH CENTRAL | 1,686 | F 194 | 1245 | 20 | 12 | 1 | 12 | nde j | dell | 11 | 164 |
| Ohio | 117 | 1875 | 1 24 | - 83 | 3 | 1 | 6 | | Y Low | 8 | 95 |
| Indiana | 233 | 17.5 | | - 16 | 3 | 1.0 | 2 | | 5 1 I | i | 29 |
| Illinois | 406 | | 100 | 1 - 95 | 5 | | 1 | | | 1 | 13 |
| Michigan | 558 | 11.5 | 1 (5) | - 03 | | | 1 | | 1 1 | 400 | 12 |
| Wisconsin | 372 | 13.7 | - | 1 - 9 | 1 | A 12 | 2 | d i | L. L. | 1 | 15 |
| WEST NORTH CENTRAL | 389 | | 1 | - 800 | 3 | 2.1128 | 7 | -05 L 1 | 1 | 24 | 265 |
| Minnesota | 15 | 11.3 | 134 | 1 - 25 | T40 - 5 | B LE | 1 - 5 | - | 2000 | 4 | 48 |
| Iowa | 205 | 11.5 | 11.5 | - 1 - 21 | 712 - 5 | | 2 | | 5. 1 | 5 | 66 |
| Missouri | 10 | 1 2 | 1 | 1 - 2 | 1 | 10 17 22 | 4 | | the Laborat | 7 | 102 |
| North Dakota | 108 | - | 1 | | #ti(1=) | 1.00 | 25.5 | | | | 4 |
| South Dakota | 9 | 17/4 | | | | - 1 | | | 711 | 3 | 26 |
| Nebraska Kansas | 9 33 | | 1.5 | 57.56 | 2 | | 1 | | 1 | 5 | 13 |
| SOUTH ATLANTIC | 998 | | | 1 . 10 | | | in the | | | | |
| Delaware | 124 | 1 | 8 | 1 1 1 | 6 | 1 | 14 | | 6 | 8 | 156 |
| Maryland | 116 | 1 - | 1.40 | 3 7 88 | 14.5 | 1 7 7 7 | 1 7 7 | | | | |
| Dist. of Columbia | 24 | | | | | 9 (138) | 4 | | | | |
| Virginia | 367 | 1 196 | 1 400 | 14 1. 28 | 2 | 10 to | 6 | | | | 105 |
| West Virginia | 305 | 16 | - 121 | | i | 1 63 | 1 | N 1 1 1 1 | 2 | 3 | 105 |
| North Carolina | 13 | - | 40 | 11 - 14 | 2 | 1 | 2 | | 3 | . mark 2 12 | 19 |
| South Carolina | 26 | 1100 | 1 | | 1 | 0 1 98 | - | | 3 | | D roles |
| Georgia | 16 | | 3 | 1 / 200 | 14 2 8 | 17 Line | 1.00 | 1 | 1 | 4 | 19 |
| Florida | 7 | 1 | 4 | 2.6 | | × 1-195 | 1 | 01/12 | 1 2779 | 1 | 13 |
| EAST SOUTH CENTRAL | 1,388 | i le | 1 | ST . AT | 12 | 1 | 6 | LINE L | D | 12 | 171 |
| Kentucky | 70 | 156 | 1 197 | 1 1/2 01 | 2 | 4 - 53 | 1 | 1 1 | M. L. | 4 | 25 |
| Tennessee | 1,147 | | | 1 1 20 | 6 | 1 | 4 | 40 1 6 | 4 1 | 7 | 142 |
| Alabama | 90 | 11.4 | 1 | 1 17 - 63 | 4 | - 198 | 1 | 11.5 | 2 64 | 1 | 4 |
| Mississippi | 81 | II | | 1 1 - 1 | - | 3 - 100 | | 1 1 | 1.5 | -1-01 | TELETA |
| JEST SOUTH CENTRAL | 768 | | 6 | 191-11 | 11 | - 0 | 3 | Lit. | tigt 1 | 26 | 250 |
| Arkansas | 2 | 11.50 | 1.5% | 1 1 - 14 | 9 | 1 - 153 | - | | 1 | 7 | 36 |
| LouisianaOklahoma | 4 | - | 3 | 7 1 2 88 | 1 | 1-16 | 1 | | | 2 | 16 |
| Texas | 80 682 | 100 | 3 | 11 57 | 1 | 5 15% | 1 | 0.01 | an I | 9 8 | 50 148 |
| OUNTAIN | 1 725 | | 14 | | 1 I . | | | | . 11 | | |
| Montana | 1,735 | 11. | The second secon | The second second second | 1 | 1.1.07 | 0 | | 200 | T- | 15 |
| Idaho. | 76 | Line I | | 100 | 9-13 - 1 | 1 1 11 | 100 | 100 | 1000 | 1 | 2 |
| Wyoming | 217 31 | | nie see | July 42 | _ III - 1 | 计定量 | 1 18 | 1 1 | 1.5 | 24 1 | 1,02466 |
| Colorado | 994 | 15. | -110 | 4 15 20 | | 1 1 50 | | 4.0 | 17.55 | 13.0 | L. ST |
| New Mexico | 157 | 10000 | 200,000 | Selfran | 113- 1 | 2 1 6 | 2 | | 1.5 | | 1 |
| Arizona | 109 | 1 | t Start as | more wa | - | 1 5 11 | 130 | | 11.33 | VIII IE | 3 9 |
| Utah | 146 | 1 | July 1 | Life was | 1 | 3 £ 100 | 3 | | | | 100 |
| Nevada | 5 0 | | F 2004 | e e 1 e 1 e | ÷ | 1 F.98 | 1 1 30 | 120 | 4/12 | 1,114 | 1000 |
| ACIFIC | 1,398 | 4/200 | 3 | | 1 | | 4 | | ne (Inc. | 9 | 65 |
| Washington | 404 | | 04-25 0 | The second | | 1 (6 | 1 2 30 | 1 2 1 | 1 1 1 1 | 9 | 65 |
| Oregon | 27 | 111- | bur Street | C. Life and | | 1 4 33 | LL in | 100 | 2 | 8.5 | heself |
| California | 883 | 11- | 3 | 7 22 | 1 | 1 6 30 | 3 | | the Contract | 9 | 65 |
| Alaska | 84 | | | J-15-34 | | 1 - 13 | 1-135 | - B | | | - 03 |
| | 47 (4/47 4/27) | 1000 | - | | | 488 | | | | | - |
| Puerto Rico | 3 | Extensis | 10 | 3.00 | 1112- | 450 | 3 | to the transfer of | G. Tarres | was indi | 2 |

Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED APRIL 9, 1966

1/

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

| M. Inninger of the S. L. | All Ca | uses | Pneumonia | Under | | All Ca | uses | Pneumonia | Unde | |
|--|-------------|-------------|------------------|--------|---|--|--|------------------|----------|--|
| Area | A11 | 65 years | and Influenza | l year | Area Area | A11 000 | 65 years | and Influenza | 1 yea | |
| 4081 april | Ages | and over | All Ages | Causes | 3000 | Ages | and over | All Ages | Causes | |
| MADE TERROL TO ASSESSED TO | | 701 701 9 3 | 334 434 | 20.409 | | and the same of th | E SEE HEER | | TAME | |
| EW ENGLAND: | 759 | 451 | 41 | 42 | SOUTH ATLANTIC: | 1,202 | 625 | 61 | 6. | |
| Boston, Mass | 244 | 130 | 10 | 16 | Atlanta, Ga | 137 | 63 | 4 | 1500 | |
| Bridgeport, Conn | 33 19 | 18 12 | 3 | 3 | Baltimore, Md | 271 | 138 | 7 | 12 | |
| Cambridge, Mass | 31 | 17 | 1 | 2 | Charlotte, N. C Jacksonville, Fla | 63 67 | 32 28 | 2 | n mak | |
| Hartford, Conn | 57 | 34 | î | 5 | Mari Ele | 0.0 | 50 | 3 | 1 100 | |
| Lowell, Mass. | 30 | 22 | 2 | 1 | Norfolk, Va | 65 | 23 | 6 | 10 | |
| Lynn, Mass * | 24 | 16 | 1 | I | Richmond, Va | 88 | 46 | 3 | | |
| New Bedford, Mass | 27 | 19 | 1 | 1 | Savannah, Ga | 34 | 14 | 2 | 17.20 | |
| New Haven, Conn | 49 | 29 | 2 | 3 | St. Petersburg, Fla | 81 | 72 | 3 | 12 Y 1 | |
| Providence, R. I Somerville, Mass | 77 16 | 46 11 | 3 | 4 | Tampa, Fla. | 79 197 | 43 95 | 10 | 202 | |
| Springfield, Mass | 64 | 39 | 7 | 1 | Washington, D. C Wilmington, Del | 32 | 21 | 17 | nyani | |
| Waterbury, Conn | 27 | 16 | 1 | 2 | william grow, bell | Step U.Z | annual della | | | |
| Worcester, Mass | 61 | 42 | 8 | 3 | EAST SOUTH CENTRAL: | 535 | 298 | 26 | 2 | |
| and the same of the same of | | | | | Birmingham, Ala | 100 | 46 | 5 | | |
| DDLE ATLANTIC: | 3,393 | 2,011 | 193 | 129 | , | 34 | 21 | 2 | 3 (re-2) | |
| Albany, N. YAllentown, Pa | 29 34 | 17 25 | 3 | - | Knoxville, Tenn | 29 | 19 | 1 | e l'ence | |
| Buffalo, N. Y | 145 | 88 | 9 | 6 | Louisville, Ky Memphis, Tenn | 78 113 | 46 67 | 8 3 | TE & LPC | |
| Camden, N. J | 44 | 26 | 2 | 2 | Mobile, Ala | 32 | 14 | 1 | | |
| Elizabeth, N. J | 30 | 18 | 2 | 2 | Montgomery, Ala | 61 | 33 | 5 | Ind W | |
| Erie, Pa | 43 | 28 | 5 | 3 | Nashville, Tenn | 88 | 52 | 1 | CEA | |
| Jersey City, N. J | 62 | 33 | 4 | 2 | - Garne to that to | LAHRE | Security | ***** | NUMBER | |
| Newark, N. J | 98 1,832 | 54 | 5 | 6 | WEST SOUTH CENTRAL: | 1,114 | 600 | 50 | 8. | |
| New York City, N. Y Paterson, N. J | 28 | 1,063 | 117 | 69 | Austin, Tex | 27 40 | 14 | 2 | oth pla | |
| Philadelphia, Pa | 490 | 287 | 15 | 20 | Baton Rouge, La Corpus Christi, Tex | 24 | 23 16 | Anglin id 1 | TE IN | |
| Pittsburgh, Pa | 174 | 107 | 4 | 5 | Dallas, Tex | 163 | | 9 | - 1 | |
| Reading, Pa | 38 | 25 | 1 | 1 | El Paso, Tex | 46 | 23 | 3 | | |
| Rochester, N. Y | 110 | 73 | 12 | 1 | Fort Worth, Tex | 75 | 39 | 4 | 100 | |
| Schenectady, N. Y | 26 | 15 | | 1 | Houston, Tex | 188 | 86 | 8 | 1 DOWN | |
| Scranton, Pa | 36 82 | 26 42 | 5 | - | Little Rock, Ark | 68 | 37 | 4 | BOUKER | |
| Syracuse, N. Y Trenton, N. J | 38 | 22 | 3 | 1 | New Orleans, La Oklahoma City, Okla | 184 80 | 101 | 8 2 | 1 1 | |
| Utica, N. Y | 21 | 15 | 2 | | San Antonio, Tex | 102 | | 4 | LAV 5 | |
| Yonkers, N. Y | 33 | 28 | 3 | - | Shreveport, La | 48 | 32 | | 11 | |
| Standard Beginners | | | | | Tulsa, Okla | 69 | 37 | 5 | 1 | |
| ST NORTH CENTRAL: | 2,491 | 1,442 | 110 | 143 | | | 1.0 | 0.00 | rista. | |
| Akron, Ohio | 63 | 40 | - | 5 | MOUNTAIN: | 471 | 272 | 37 | 1 | |
| Canton, Ohio Chicago, Ill | 34 666 | 21 376 | 33 | 42 | Albuquerque, N. Mex | 40 36 | 19 | 9 | 130-04-0 | |
| Cincinnati, Ohio | 145 | 79 | 6 | 13 | Colorado Springs, Colo. Denver, Colo | 144 | 87 | 11 | e doub | |
| Cleveland, Ohio | 191 | 108 | 1 | . 8 | Ogden, Utah | 13 | 4 | 1 | | |
| Columbus, Ohio | 109 | 63 | 1 | 8 | Phoenix, Ariz | 121 | 69 | 10 | Sec. 3 | |
| Dayton, Ohio | 71 | 42 | 9 | 3 | Pueblo, Colo | 13 | 11 | and Alles | 2 hh Ju | |
| Detroit, Mich | 384 | 214 | 16 | 20 | Salt Lake City, Utah | 53 | 31 | 1 | | |
| Evansville, Ind | 38 | 26 | 2 | 1 | Tucson, Ariz | 51 | 27 | a balletin | HETPOR | |
| Flint, Mich Fort Wayne, Ind | 59 45 | 34 28 | 1 6 | 5 4 | PACIFIC: | 1 400 | 1 026 | 70 | 1000 | |
| Gary, Ind | 29 | 15 | l ů | 2 | Berkeley, Calif | 1,688 14 | 1,036 | 70 | 6 | |
| Grand Rapids, Mich | 75 | 52 | 6 | 2 | Fresno, Calif | 57 | 38 | 1 | CON | |
| Indianapolis, Ind | 169 | 105 | 9 | 7 | Glendale, Calif | 30 | 19 | 2 | | |
| Madison, Wis | 40 | 22 | 1 | 2 | Honolulu, Hawaii | 42 | | B-2-00000000 | | |
| Milwaukee, Wis | 120 | 71 | 4 | 4 | Long Beach, Calif | 75 | The second secon | 2 | 110.43 | |
| Peoria, Ill. | 44 | 23 | 6 | 4 | Los Angeles, Calif | 492 | | 15 | - TANK | |
| Rockford, IllSouth Bend, Ind | 31 24 | 16 12 | 6 2 | 2 | Oakland, Calif | 76 48 | 48 | 2 - | STATE | |
| Toledo, Ohio | 98 | 65 | 3 | .5 | Pasadena, Calif Portland, Oreg | 163 | 109 | 5 | DOM: | |
| Youngstown, Ohio | 56 | 30 | 2 | 4 | Sacramento, Calif | 61 | 31 | i | 1354 | |
| | | 1 4 | | | San Diego, Calif | 107 | 66 | 5 | 110 | |
| ST NORTH CENTRAL: | 861 | 533 | 17 | 39 | San Francisco, Calif | 169 | 96 | 6 | 1169 | |
| Des Moines, Iowa | 49 | 33 | - | 2 | San Jose, Calif | 50 | 26 | 1 | | |
| Duluth, Minn.*********************************** | 28 31 | 20 16 | 3 | 4 | Seattle, Wash | 197 | 122 | 19 | 10.24 | |
| Kansas City, Kans Kansas City, Mo | 141 | 96 | 4 | 4 | Spokane, Wash Tacoma, Wash | 60 47 | 49 | 2 | 130943 | |
| Lincoln, Nebr | 30 | 16 | 1 | 2 | Tacoma, wash. | 47 | 27 | 6 | 1203 | |
| Minneapolis, Minn * | 121 | 77 | 1 | 6 | Total | 12,514 | 7,268 | 605 | 59 | |
| Omaha, Nebr | 69 | 35 | 1 3 | 5 | | -,7 | 1 .,,200 | | 1 37 | |
| St. Louis, Mo | 264 | 161 | | 9 | Cum | ulative To | otals | | 111 | |
| St. Paul, Minn | 78 | 52 | - | 4 | including reported | d correct: | lons for p | revious we | eks | |
| Wichita, Kans | 50 | 27 | 4 | 2 | | | | | | |
| ACCOUNT OF THE PARTY OF THE PAR | | | | | All Causes, All Ages | | | | | |
| | | | | | All Causes, Age 65 and o | | | | | |

INTERNATIONAL NOTES-QUARANTINE MEASURES

Immunization Information for International Travel 1965-66 edition—Public Health Service Publication No. 384

The following change should be made in the list of Yellow Fever Vaccination Centers in Section 6:

Page 82

Delete

City: Corpus Christi, Texas

Center:

Corpus Christi-Nueces County

Health Department 1811 Shoreline Blvd. Telephone: TU 2-6577

Clinic Hours:

Friday, 2 p.m.

Fee:

Yes

bbA

City:

Corpus Christi, Texas

Center:

Corpus Christi-Nueces County

Health Department 1811 Shoreline Blvd. Telephone: TU 2-6577

Clinic Hours:

Friday, 10:30 - 11:30 a.m.

Fee:

Yes

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 15,600, 15 PUBLISHED AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

CHIEF, COMMUNICABLE DISEASE CENTER CHIEF, EPIDEMIOLOGY BRANCH ACTING CHIEF, STATISTICS SECTION

DAVID J. SENCER, M.D. A.D. LANGMUIR, M.D. IDA L. SHERMAN, M.S.

EDITOR: MMWR

D. J. M. MACKENZIE, M.B., F. R. C. P. E.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE IN TIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDED ON SATURDAY: COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta, Georgia 30333

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