NATIONAL COMMUNICABLE DISEASE CENTER

U.S. department of health, education, and welfare / public health service health services and mental health administration DATE OF RELEASE: MAY 22, 1970 - ATLANTA, GEORGIA 30333

## EPIDEMIOLOGIC NOTES AND REPORTS ADENOVIRUS 7a INFECTION IN CHILDREN WITH SEVERE RESPIRATORY DISEASE - New York City

On Feb. 15, 1970, a 15 -month-old boy was admitted to a hospital in New York City with a diagnosis of bronchiolitis. His condition worsened, and he died 5 days later. At postmortem examination many air-filled blebs were seen throughout the lung parenchyma, and on microscopic examination interstitial pneumonitis was identified. In addition, adenovirus 7a was isolated from a pharyngeal swab taken on February 18.

In the meantime on February 17, his twin brother had been hospitalized, also with bronchiolitis. Adenovirus 7a Was isolated from a pharyngeal swab taken on him on Pebruary 19. Since that time, this child has had a prolonged course of lower respiratory disease complicated by a Pseu-

domonas bacteremia, and at present, he remains ill and has signs of permanent pulmonary damage.

These children lived with their mother, grandmother, and 4-year-old sibling. The mother reported having a respiratory illness during February at the time the twins had become ill. The other two household members had not been ill.
(Continued on page 190)


## TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

|  | Cum. |  | Cum. |
| :---: | :---: | :---: | :---: |
| Botulix: | 1 | Psittacosis: | 13 |
| Leprosy: | 1 | Rabies in Man: | 13 |
| Leptospirosis. ${ }^{\text {L }}$, Minn.-1, Texas-1 | 41 | Rubella congenital syndrome: | 29 |
| ${ }^{\text {Plague: }}$ | 11 | Trichinosis: Hawaii-1, Tenn.-1 | 40 |
|  | - | Typhus, murine: Texas-3 | 5 |

## ADENOVIRUS 7a INFECTION - (Continued from front page)

On February 25, two pediatric residents, an anesthesiologist, and a nurse, all of whom had had contact with one or the other of the two patients, developed a conjunctivitis and pharyngitis. Epidemic keratoconjunctivitis was diagnosed clinically by an ophthalmologist, and cultures of eye swabs on the two pediatricians taken on February 25 were positive for adenovirus 7a.

Further serologic and epidemiologic studies on the family and hospital contacts of these twins are in progress. (Reported by Alfred Kogon, M.D., Associate Professor of Community and Preventive Medicine, and Hospital Epidemiologist, Frank Galioto, M.D., Pediatric Resident, Susan G. Gordon, M.D., Associate Professor of Pediatrics, and Theodore Sall, Ph.D., Assistant Professor of Micro-
biology, Metropolitan Hospital, New York Medical College; and Stephen Millian, Ph.D., Chief of Virology, and Vincent F. Guinee, M.D., Principal Epidemiologist, Bureau of $1 n$ fectious Disease Control, New York City Department of Health.)

## Editorial Comment:

Although adenovirus type 7a has been primarily associated with epidemics in military populations, well-documented civilian outbreaks have occurred, resulting occasionally in severe and fatal cases, particularly in infants and young children (1).

## Reference

(1) van der Veen, J.: The role of adenoviruses in respiratory disease. Amer Rev Resp Dis 88: Supp (Sept.) 167-180, 1963.

## INTERNATIONAL NOTES <br> AN OUTBREAK OF INFECTIOUS HEPATITIS - Buenos Aires, Argentina

Between June 9 and Sept. 17, 1969, a total of 26 cases of infectious hepatitis (Figure 1) occurred in students and faculty at a predominantly boys' school (grades kindergarten through 8; enrollment 267) in Buenos Aires, Argentina. In general, the illnesses had a sudden onset and were characterized by fever, weakness, nausea, abdominal cramping, dark urine, and jaundice. Twenty-five patients were pupils, ages 5 to 12 years, and the other was a 10 -year-old physical education instructor. Cases occurred evenly from kindergarten to grade 7 with no cases in grade 8. All patients were males except for one female, who was one of five girls in the kindergarten and the sister of one of the ill boys. She became ill 2 weeks after her brother. Two other pupils from separate families had onset of illness following illness in their brothers who also attended the school. During this outbreak five other cases occurred in young boys who lived in the area but who had no apparent contact with the ill pupils. No cases were reported in 1969 from five other nearby schools.

The slow spread of cases over the first $2-1 / 2$ months

Figure 1
CASES OF INFECTIOUS HEPATITIS AT A SCHOOL BY WEEK OF ONSET - BUENOS AIRES, ARGENTINA JUNE.SEPTEMBER 1969

of the outbreak suggested person-to-person transmission of hepatitis while the clustering of nearly two-thirds of the cases in September seemed compatible either with a com mon source exposure or an accumulation of secondary cases resulting from contact with an earlier case(s). Possibilities as to spread by a common source were investigated.

All pupils at the school had been vaccinated (DPT. BCG, and smallpox) prior to enrollment and most within the last 6 months. This was eliminated as the possible source of infection because the vaccinations had been obtained on an individual basis. Transportation of the pupils to school could not be incriminated as a means of spread of infection since most pupils walked to school, and no school buses were used.

Food was not strongly considered as the possible comr mon source for several reasons: (1) 70 of the 267 pupils routinely had lunch at the school dining room, and 16 of the ill pupils regularly ate lunch at home; (2) the school kitchen was inspected and found to be in satisfactory condition, and no kitchen personnel had been ill; and (3) although sugar-coated or jam-stuffed small bakery loaves obtained locally were distributed at recreation time, no other hepatitis illness had been recognized in the area of distribution of these products.

Water for washing and drinking was derived from the Buenos Aires municipal supply and was collected in two large covered tanks which supplied the commodes and six faucets in a large basin. The faucets in the basin werc used for drinking and handwashing and most children while using the basin, placed their hands on its edge. Mop ${ }^{\text {s }}$, buckets, and other cleaning equipment used for commodes, floors, etc., were also washed in this basin thereby providing the possibility for contamination of its surface $a^{\text {nd }}$ subsequent transmission of infection to school childrenIllness in the physical education instructor could possibly be explained by the fact that he commonly shared his whistle with the school children for use during their games.
(Reported by Dr. Hauviller, Dr. Michref, Dr. Barboza, and Dr. Carlos A. Urquijo, Chief of the Department of Epidemiology, School of Public Health, University of Buenos

Aires, and Dr. Carlos Alvarez Herrera, Chief, Health Care Department, Ministry of Social Welfare, Argentina.)

## POLIOMYELITIS - Worldwide

For the world, the total numbers of poliomyelitis cases for $1966,1967,1968$, and $1969^{*}$ were $12,576,8,040,11,079$, and 6,507 cases, respectively (Table 1 ).

In the European countries, the annual incidence for each of the years 1966 to 1968 was between $1 / 12$ and $1 / 34$ of the annual average for the period 1951-1955, years before poliomyelitis vaccines became available and widely used. Further decreases would probably have occurred also in 1968 and 1969 except that in these years large outbreaks occurred in Poland and Spain.

In the United States of America, Canada, Australia, and New Zealand, the incidence has continued to fall sharply in recent years from that of prevaccine years. Compared with $1951-1955$, the reduction in 1966 was 400 -fold; in 1968,700 -fold; and in 1969 will be approximately $1,000-$ fold if the trend of the first three quarters continues for the final reports of the fourth quarter.

In Africa, 34 countries report cases of poliomyelitis to the World Health Organization. In 24 of these the average annual number of cases in 1961-1965 increased compared with 1951-1955. Little change occurred in the annual number of cases reported during the period 1966 to 1969 . In 1969 a substantial increase occurred during the first three quarters of the year, with five countries (Democratic Republic of the Congo, People's Republic of the Congo, Kenya, South Africa, and Mali) accounting for 79.1 percent of the total number of reported cases.

In Central and South America, the annual number of reported cases during the period 1966-1968 showed a reduction of approximately 50 percent from the annual average during the prevaccine period $1951-1955$. In nine of the 20 reporting countries, however, the annual average increased
in the period 1961-1965 compared with 1951-1955. Six countries in 1969 had increases above the 1968 annual number, despite the fact that at present final totals are available only for three quarters of 1969. These increases reflect substantial outbreaks in Ecuador, Nicaraqua, and Costa Rica.

The information for Asia includes reports from 17 countries, the population of which represents only a small proportion of the total Asian population. Twelve of these 17 countries showed increases in the annual averages between 1951-1955 and 1961-1965. The preliminary figures for 1969 showed no increases in any country compared with 1968.

Altogether, of the 71 tropical and semitropical countries in Africa, Central and South America, and Asia, 45 showed increases in their annual average number of cases between the period 1951-1955 and 1961-1965. The increases were, in general, 3 -fold between the two periods. In the 3 -year period 1966-1968, 40 of the 71 countries reported 100 or more cases per year and 19 reported 400 or more. In Europe, North America, Australia, New Zealand, and a few other countries including the Union of Soviet Socialist Republics, the disease has decreased to insignificant proportions. In Africa, Central and South America, and Asia, the frequency of outbreaks, however, is increasing. Such outbreaks are not yet as large as those common to Europe and North America prior to widespread vaccine use. Poliovirus type 1 is still responsible for the majority of cases in these countries.

Source: World Health Organization Weekly Epidemiological Record, 45(17):189-194, Apr. 24, 1970.
*Preliminary data.

Table 1
Poliomyelitis Cases Reported to the World Health Organization by Five Major Regions of the World 1951-1969

Preliminary data

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MAY 16,1970 AND MAY 10,1969 (19th WEEK)

| AREA | $\begin{aligned} & \text { ASEPTIC } \\ & \text { MENIN- } \\ & \text { GITIS } \end{aligned}$ | $\begin{gathered} \text { BRUCEL- } \\ \text { LOSIS } \end{gathered}$ | $\begin{aligned} & \text { DIPH- } \\ & \text { THERIA } \end{aligned}$ | ENCEPHALITIS |  |  | HEPATITIS |  |  | malaria |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Primary including unsp. cases |  | Post Infectious | Serum | Infectious |  |  |  |
|  | 1970 | 1970 | 1970 | 1970 | 1969 | 1970 | 1970 | 1970 | 1969 | 1970 | Cum. <br> 1970 <br> 1.273 |
| UNITED STATES...... | 30 | 4 | 36 | 23 | 17 | 4 | 123 | 1,096 | 933 | 84 | 273 |
| NEW ENGLAND............. | 5 | - | - | 2 | 1 | - | 7 | 41 | 89 | - | 38 |
| Maine.*............... | - | - | - | - | - | - | - | 9 | 6 | - |  |
| New Hampshire. ${ }^{\text {a }}$....... | - | - | - | - | - | - | - | 3 | 10 | - | 3 |
| Vermont.............. | - | - | - | - | - | - | - | 5 | 1 | - | 20 |
| Massachusetts........ | 4 | - | - | 2 | - | - | 4 | - | 25 | - | 5 |
| Rhode Island. . . . . . . . | 1 | - | - | - | $\overline{1}$ | - | $\overline{3}$ | 16 | 33 | - | 7 |
| Connecticut.......... | - | - | - | - | 1 | - | 3 | 8 | 14 | - |  |
| MIDDLE ATLANTIC........ | 3 | - | - | 4 | 2 | 1 | 39 | 108 | 171 | 2 | 136 25 |
| New York City........ | 2 | - | - | 4 | 2 | - | 23 | 41 | 65 | - | 41 |
| New York, Up-State... | - | - | - | - | - | 1 | 6 | 30 | 22 | 2 | 37 |
| New Jersey. ${ }^{\text {E......... }}$ | 1 | - | - | - | - | - | 10 | 37 | 47 | - | 35 |
| Pennsylvania......... | --- | --- | --" | --- | - | --- | --- | --- | 37 | --" |  |
| EAST NORTH CENTRAL..... | 4 | - | - | 9 | 1 | - | 17 | 187 | 116 | 5 | 61 17 |
| Oh1o.................. | 1 | - | - | 4 | - | - | 2 | 46 | 28 | 1 | 5 |
| Indiana.............. | 1 | - | - | - | - | - | - | 28 | 10 | 1 | 8 |
| Illinois............. | 1 | - | - | 1 | - | - | 3 | 28 | 17 | $\overline{-}$ | 31 |
| Michigan............. | 1 | - | - | 4 | 1 | - | 12 | 76 | 56 | 3 | - |
| Wisconsin. ........... | - | - | - | - | - | - | - | 9 | 5 | - |  |
|  |  |  |  |  |  |  | 4 |  |  | 6 | 89 |
| WEST NORTH CENTRAL..... | - | 1 | - | - | - | - | 4 | 15 | 35 9 | 6 | 1 |
| Iowa........................ | - | 1 | - | _ | - | - | - | 6 | 3 | - | 14 |
| Missour1............... | - | - | - | - | - | - | 2 | 14 | 16 | - | 1 |
| North Dakota. . . . . . . . | - | - | - | - | - | - | - | - | 1 | - | 2 |
| South Dakota......... | - | - | - | - | - | - | - | 1 | 1 | 2 | 1 |
| Nebraska. . . . . . . . . . . . | - | - | - | - | - | - | - | 11 | 2 | $\overline{4}$ | 63 |
| Kansas............... | - | - | - | - | - | - | 2 | 6 | 3 | 4 |  |
| SOUTH ATLANTIC......... | 5 | - | - | 2 | 5 | 1 | 7 | 153 | 89 | 8 | 217 1 |
| Delaware. . . . . . . . . . . . . | - | - | - | - | - | - | - | 1 | - | - | 24 |
| Maryland, ............ | - | - | - | 2 | 2 | 1 | 3 | 17 | 19 | 2 | 2 |
| Dist. of Columbia.... | - | - | - | - | - | - | 2 | - | - | - | 19 |
| Virginia.............. | - | - | - | - | - | - | - | 21 | 4 | $\bar{\square}$ | 3 |
| West Virginia........ | - | - | - | - | 1 | - | - | 4 | 2 | 2 | 93 |
| North Carolina. . . . . . | - | - | - | - | - | - | - | 31 | 9 | 2 | 18 |
| South Carolina....... | 1 | - | - | - | 2 | - | - | 12 | 6 | 1 | 39 |
| Georgia. . . . . . . . . . . . | - | - | - | - | - | - | - | 12 | 31 | - | 18 |
| Florida.............. | 4 | - | - | - | - | - | 2 | 55 | 18 | 1 |  |
|  |  |  |  |  |  |  |  |  |  | 2 | 101 85 |
| EAST SOUTH CENTRAL..... | 1 | - |  |  |  |  |  | 19 |  |  | 85 |
| Kentucky.............. | - | - | - | 2 | - | - | - | 19 | 26 25 | - | -1 |
| Tennessee............. | - | - | - | 2 | 1 | - | - | 34 | 25 | - | 11 |
| Alabama............... | 1 | - | - | - | - | - | 1 | 15 | 4 | $\overline{2}$ | 5 |
| M1ssissipp1........... | - | - | - | - | - | - | - | 3 | 9 | 2 |  |
| WEST SOUTH CENTRAL..... | - | - | 29 | 1 | 3 | 1 | 5 | 135 | 67 | 18 | 4 |
| Arkansas............. | - | - | - | - | 1 | - | - | 10 | - | - | 17 |
| Louisiana............. | - | - | - | 1 | 2 | 1 | 1 | 18 | 12 | 2 | 34 |
| Oklahoma.............. | - | - | - | - | - | - | - | 5 | 5 | 6 | 202 |
| Texas................. | - | - | 29 | - | - | - | 4 | 102 | 50 | 10 |  |
|  |  |  |  |  |  |  |  |  |  |  | 107 |
| mountain. . . . . . . . . . . . . | - | - | 4 | - | 1 | - | 2 | 68 | 58 | 1 | 4 |
| Montana.............. | - | - | - | - | - | - | - | 3 | 2 | - | 2 |
| Idaho. . . . . . . . . . . . . . | - | - | - | - | - | - | - | 1 | 3 | - | - |
| Wyoming. . . . . . . . . . . . . | - | - | - | - | - | - | - | 2 | - | - | 93 |
| Colorado. . . . . . . . . . . | - | - | - | - | - | - | 1 | 37 | 17 | 1 | 3 |
| New Mexico. . . . . . . . . . | - | - | - | - | 1 | - | - | 6 | 7 | - | 3 |
| Arizona.,............. | - | - | 4 | - | - | - | - | 16 | 11 | - | 2 |
| Utah................. | - | - | - | - | - | - | 1 | 3 | 4 | - | - |
| Nevada. . . . . . . . . . . . . | - | - | - | - | - | - | - | - | 14 | - |  |
| PACIFIC................. | 12 | 3 | 3 | 3 | 3 | 1 | 41 | 280 | 244 | 42 | 265 12 |
| Washington........... | 1 | - | 2 | 1 | - | - | 1 | 29 | 35 | - | 12 |
| Oregon. . . . . . . . . . . . . . . | 1 | - | 1 | - | - | - | 1 | 17 | 11 | 1 | 173 |
| California............. | 10 | 3 | - | 2 | 3 | 1 | 39 | 225 | 195 | 16 | - |
| Alaska............... | - | - | - | - | - | - | - | 3 | - | 25 | 68 |
| Hawai1. . . . . . . . . . . . . | 1 | - | - | - | - | - | - | 6 | 3 | 25 | , |
| Puerto Rico \%........... | - | - | - | - | - | - | 3 | 26 | 33 | - | - |
| Virgin Islands ........ | - | - | - | - | - | - | - | - | - | - |  |

*Delayed Reports: Encephalitis, primary: New Hampshire 1
Hepatitis, serum: Maine Delete 1, Louisiana Delete 1, Arizona 1, Puerto Rico 1
Hepatitis, infectious: New Jersey Delete 1, Puerto Rico 7

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MAY 16, 1970 AND MAY 10,1969 (19th WEEK) - CONTINUED

| AREA | MEASLES (Rubeola) |  |  | MENINGOCOCCAL INFECTIONS, TOTAL |  |  | MUMPS |  | POLIOMYELITIS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Cumulative |  |  | Cumulative |  |  | $\begin{aligned} & \text { Cum. } \\ & 1970 \end{aligned}$ | Total | Paralytic |  |
|  | 1970 | 1970 | 1969 | 1970 | 1970 | 1969 | 1970 |  | 1970 | 1970 | $\begin{aligned} & \text { Cum. } \\ & 1970 \end{aligned}$ |
| UNITED STATES.. | 1,927 | 26,071 | 12,542 | 46 | 1,257 | 1,640 | 2,853 | 52,263 | - | - | 1 |
| NEW ENGLAND. | 62 | 541 | 641 | 9 | 57 | 49 | 274 | 6,503 | - | - | - |
| Maine*... | 6 | 18 | 4 | - | 1 | 4 | 12 | 580 | - | - | - |
| New Hampshire.... | 2 | 17 | 200 | - | 5 | 1 | 2 | 219 | - | - | - |
| Vermant.......... | - | 2 | 2 | - | 5 | - | 6 | 523 | - | - | - |
| Massachusetts*....... | 44 | 426 | 92 | 8 | 26 | 22 | 101 | 2,133 | - | - | - |
| Rhode Island......... | 8 | 23 | 17 | - | 3 | 4 | - | 801 | - | - | - |
| Connecticut........... | 2 | 55 | 326 | 1 | 17 | 18 | 153 | 2,247 | - | - | - |
| Middle atlantic........ | 114 | 3,176 | 4,477 | 9 | 220 | 245 | 129 | 5,166 | - | - | - |
| New York City......... | 31 | 566 | 3,095 | 5 | 55 | 44 | 87 | 1,689 | - | - | - |
| New York, Up-State... | 8 | 126 | 397 | 1 | 43 | 41 | NN | NN | - | - | - |
| New Jersey............ | 75 | 1,320 | 517 | 3 | 83 | 104 | 42 | 1,543 | - | - | - |
| Pennsylvania.......... | --- | 1,164 | 468 | --- | 39 | 56 | --- | 1,934 | --- | --- | - |
| EAST NORTH CENTRAL. | 469 | 6,023 | 1,270 | 5 | 145 | 208 | 803 | 13,348 | - | - | - |
| Ohio.................. | 222 | 2,413 | 207 | 3 | 65 | 73 | 184 | 2,157 | - | - | - |
| Indiana.. | 4 | 192 | 365 | 1 | 17 | 26 | 55 | 1,276 | - | - | - |
| Illinois. | 101 | 2,129 | 210 | - | 31 | 35 | 62 | 1,203 | - | - | - |
| Michigan.............. | 102 | 751 | 122 | 1 | 28 | 60 | 232 | 3,213 | - | - | - |
| Wisconsin............ | 40 | 538 | 366 | - | 4 | 14 | 270 | 5,499 | - | - | - |
| WEST NORTH CENTRAL..... | 100 | 2,243 | 378 | 2 | 62 | 89 | 185 | 3,009 | - | - | - |
| Minnesota............. | 4 | 230 | 1 | - | 7 | 16 | 8 | 290 | - | - | - |
| Iowa................. | 21 | 101 | 241 | 1 | 8 | 10 | 152 | 1,969 | - | - | - |
| Missouri. | 59 | 852 | 14 | 1 | 42 | 40 | 3 | 92 | - | - | - |
| North Dakota......... | 11 | 249 | 6 | - | 2 | - | 6 | 228 | - | - | - |
| South Dakota........... | 2 | 76 | - | - | - | - | 8 | 10 | - | - | - |
| Nebraska.............. | 3 | 885 | 113 | - | 2 | 9 | 8 | 335 | - | - | - |
| Kansas.. | - | 50 | 3 | - | 1 | 14 | - | 85 | - | - | - |
| SOUTH ATLANTIC. | 466 | 5,008 | 1,748 | 5 | 270 | 296 | 267 | 5,440 | - | - | - |
| Delaware. | 11 | 208 | 198 | - | 3 | 4 | 15 | 137 | - | - | - |
| Maryland. . . . . . . . . . . . | 73 | 1,046 | 30 | 2 | 27 | 29 | 35 | 446 | - | - | - |
| Dist. of Columbia.... | 5 | 315 | - | - | 1 | 8 | 10 | 143 | - | - | - |
| Virginia............. | 183 | 1,344 | 692 | - | 23 | 35 | 81 | 1,293 | - | - | - |
| West Virginia......... | 28 | 182 | 144 | - | 5 | 13 | 42 | 1,431 | - | - | - |
| Worth Carolina....... | 45 | 520 | 148 | - | 53 | 46 | NN | NN | - | - | - |
| South Carolina....... | 28 | 377 | 91 | 2 | 29 | 42 | 8 | 534 | - | - | - |
| Georgia................ <br> Florida | 1 | 5 | 1 | - | 28 | 51 | - | 1.456 | - | - | - |
|  | 92 | 1,011 | 444 | 1 | 101 | 68 | 76 | 1,456 | - | - | - |
| EAST SOUTH CENTRAL.. | 97 | 629 | 62 | 5 | 95 | 88 | 112 | 3,126 | - | - | - |
| Kentucky.............. | 24 | 339 | 29 | - | 34 | 25 | 47 | 1,212 | - | - | _ |
| Tennessee............. | 68 | 217 | 15 | 4 | 39 | 39 | 59 | 1,725 | - | - | - |
|  | 1 | 40 | 1 | 1 | 18 | 14 | 5 | 169 | _ | - | _ |
| Mississippi.......... | 4 | 33 | 17 | - | 4 | 10 | 1 | 20 | - | _ | - |
| WEST SOUTH CENTRAL..... | 411 | 6,047 |  | 4 |  | 236 | 310 | 5,316 | - | - | 1 |
| Arkansas | 7 | 27 | 16 | - | 15 | 25 | 2 | 5 78 | - | - | - |
| Oklahiana............. | 8 | 59 | 74 | 2 | 46 | 66 | - | 14 | - | - | - |
| Texas. ${ }^{\text {klaha. . . . . . . . . . }}$. | 65 | 305 | 109 | - | 11 | 23 | 189 | 1,996 | - | - | - |
| Texas................ | 331 | 5,656 | 2,690 | 2 | 108 | 122 | 119 | 3,228 | - | - | 1 |
| Mountain. . . . . . . . . . . . . | 71 |  | 381 | - | 17 | 33 | 108 | 2,350 | - |  | - |
| Montana..................... | 71 | 1,065 14 | 4 | - | 17 | 4 | 31 | 2,350 | - | - | - |
| Idaho...................... | 2 | 19 | 38 | - | 3 | 6 | 4 | 74 | - | - | - |
| Coming. . . . . . . . . . . . . . . | - | 8 | - | - | 1 | - | - | 30 | - | - | - |
| ${ }^{\text {Colow }}$ Mado. . . . . . . . . . . | 5 | 104 | 70 | - | 5 | 6 | 36 | 748 | - | - | - |
| Arizona. Mexico. . . . . . . . . . | 2 | 129 | 152 | - | - | 6 | 21 | 479 | - | - | - |
| Utah...................... | 54 | 757 | 114 | - | 6 | 8 | 10 | 469 | - | - | - |
| Nevada,...................... | 8 | 15 | 1 | - | 2 | 2 | 6 | 100 | - | - | - |
| ${ }^{P_{A C I F I C}}{ }^{\text {. . . . . . . . . }}$. |  |  |  | 7 | 211 | 396 | 665 |  | - |  |  |
| Hashington................ | 137 25 | 1,339 172 | 696 46 | 1 | +31 | 396 50 | 665 356 | 8,005 3,379 | - | - | - |
| Oregon.................... | 10 | - 143 | 147 | 1 | 17 | 9 | 47 | 3,606 | - | - | - |
| Alifornia............. | 77 | 929 | 493 | 6 | 161 | 319 | 166 | 3,130 | - | - | - |
| Haska................ | 23 | 44 | 4 | - | - | 10 | 13 | 303 | - | - | - |
| Puerto . . . ............ | 2 | 51 | 6 | - | 1 | 8 | 83 | 587 | - | - | - |
|  | 29 | 722 | 438 | - | 3 | 12 | 29 | 484 | - | - | - |
| Delayed lslands ........ |  | 5 | 4 | - | - | - | - | , | - | - | - |

Table III. Cases of specified notifiable diseases: united states

## FOR WEEKS ENDED

MAY 16,1970 AND MAY 10,1969 (19th WEEK) - CONTINUED

| AREA | RUBELLA |  | tetanus |  | tularemia |  | TYPHOIDFEVER |  | TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted) |  | RABIES IN ANIMALS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1970 | $\begin{aligned} & \text { Cum. } \\ & 1970 \end{aligned}$ | 1970 | $\begin{aligned} & \text { Cum. } \\ & 1970 \end{aligned}$ | 1970 | $\begin{aligned} & \text { Cum. } \\ & 1970 \end{aligned}$ | 1970 | $\begin{aligned} & \text { Cum. } \\ & 1970 \\ & \hline \end{aligned}$ | 1970 | $\begin{aligned} & \text { Cum. } \\ & 1970 \end{aligned}$ | 1970 | $\begin{aligned} & \text { Cum. } \\ & 1970 \\ & \hline \end{aligned}$ |
| UNITED STATES..... | 2,898 | 36,147 | - | 31 | - | 33 | 1 | 80 | 10 | 21 | 39 | 1,229 |
|  | 210 | 1,719 | - | 3 | - | - | - | 3 | - | - | 1 | 47 11 |
| NEW ENGLAND............. | 24 | 286 | - | - | - | - | - | - | - | - | 1 | 11 |
| New Hampshire......... | 16 | 130 | - | - | - | - | - | - | - | - | - | 34 |
| Vermont............... | - | 31 | - | - | - | - | - | - | - |  |  | , |
| Massachusetts...... | 69 | 762 | - | 2 | - | - | - | 2 | - | - | - | 1 |
| Rhode Island....... | 57 | 101 | - | - | - | - | - | 1 | - | - | - | 1 |
| Connecticut......... | 44 | 409 | - | 1 | - | - | - |  | - | - |  |  |
|  | 87 | 2,577 | - | 3 | - | - | - | 19 | - | - | 7 | 110 |
| Midde atm York city........ | 19 | 370 | _ | 1 | - | - | - | 7 | - | - | $\overline{7}$ | 105 |
| New York, Up-State.. | 31 | 261 | - | - | - | - | - | 5 | - | - | 7 | - |
| New Jersey.......... | 37 | 666 | - | 1 | - | - | - | 2 | - | - | - | 5 |
| Pennsylvania........ | --- | 1,280 | --* | 1 | --- | - | --- | 5 | --- | - | --" |  |
| EAST NORTH CENTRAL.... | 551 | 7,572 | - | 8 | - | 15 | - | 12 | - | - | 2 | 81 |
| Oh10................ | 162 | 1,486 | - | - | - | 2 | - | 5 | - | - | - | 3 |
| Indiana............. | 59 | 1,471 | - | 1 | - | 12 | - | 1 | - | - |  | 24 |
| Illinois............ | 157 | 1,116 | - | 3 | - | 1 | - | 1 | - | - | $\overline{2}$ | 9 |
| Michigan............ | 112 | 1,887 | - | 4 | - | - | - | 5 | - | - | 2 | 18 |
| Wisconsin........... | 61 | 1,612 | - | - | - | - | - | - | - | - | - |  |
|  | 243 | 2,805 | - | 1 | - | 4 | - | 1 | - | - | 9 | 176 38 |
| WEST NORTH CENTRAL.... | 2 | 2,84 | - | - | - | - | - | 1 | - | - | 1 | 38 29 |
| Iowa................. | 221 | 1,820 | - | - | - | - | - | - | - | - | $\overline{2}$ | 40 |
| Missouri........... | 15 | 269 | - | - | - | 3 | - | - | - | - | 2 | 18 |
| North Dakota........ | - | 98 | - | - | - | 1 | - | - | - | - | 1 | 17 |
| South Dakota........ | - | 1 | - | 1 | - | - | - | - | - | - | - | 2 |
| Nebraska............ | 5 | 492 | - | - | - | - | - | - | - | - | 5 | 32 |
| Kansas.............. | - | 41 | - | - | - | - | - | - | - | - | 5 |  |
| SOUTH ATLANTIC. | 397 | 4,774 | - | 8 | - | 4 | - | 11 | 9 | 14 | 7 | 289 |
| Delaware.............. | - | 35 | - | - | - | - | - | - | 2 | 2 | - | 1 |
| Maryland.............. | 69 | 258 | - | - | - | - | - | 3 | - | - | - | - |
| Dist. of Columbia... | 2 | 15 | - | 1 | - | - | - | - | - | - | 4 | 140 |
| Virginia........... | 43 | 561 | - | - | - | - | - | 1 | 3 | 5 | 4 | 66 |
| West Virginia....... | 40 | 960 | - | - | - | - | - | - | - | - | - | 1 |
| North Carolina..... | - | 19 | - | - | - | 3 | - | 1 | 1 | 1 |  | - |
| South Carolina..... | 79 | 500 | - | - | - | - | - | - | 3 | 6 |  | 43 |
| Georgia............. | - | - | - | 1 | - | - | - | 4 | - | - | 3 | 38 |
| Florida............. | 164 | 2,426 | - | 6 | - | 1 | - | 2 | - | - |  |  |
|  | 141 | 1,765 | - | 1 | - | 2 | - | 4 | 1 | 2 | 4 | 107 62 |
| EAST SOUTH CENTRAL.... | 43 | , 607 | - | - | - | 1 | - | 1 | - | - | 3 | 29 |
| Tennessee............ | 82 | 892 | - | - | - | 1 | - | - | - | 1 | - | 16 |
| Alabama............. | 13 | 217 | - | 1 | - | - | - | 3 | 1 | 1 | 1 | , |
| Mississippi......... | 3 | 49 | - | - | - | - | - | - | - | - |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 227 |
| WEST SOUTH CENTRAL.... | 463 | 6,759 | - | 4 | - | 7 | - | 6 | - | 3 | 6 | 30 |
| Arkansas............ | - | 30 | - | 3 | - | 2 | - | 3 | - | 1 | - | 40 |
| Louisiana........... | 33 | 125 | - | 1 | - | - | - | 1 | - | - |  | 45 |
| Oklahoma........... | 47 | 718 | - | - | - | 4 | - | - | - | 2 | 6 | 112 |
| Texas............... | 383 | 5,886 | - | - | - | 1 | - | 2 | - | - | 6 |  |
|  |  |  | - |  |  |  |  |  |  |  | 2 | 50 |
| MOUNTAIN............... | 104 | 1,402 | - | - | - | 1 | - | 6 | - |  | - | - |
| Montana............. | 6 | 271 | - | - | - | - | - | 1 | - | - | - | - |
| Idaho............... | 20 | 104 | - | - | - | - | - | - | - | - |  | $\bar{\square}$ |
| Wyoming. . . . . . . . . . . | 3 | 131 | - | - | - | - | - | - | - | 1 | - | 30 |
| Colorado............ | 23 | 243 | - | - | - | - | - |  | - | 1 | 1 | 9 |
| New Mexico.......... | 6 | 136 379 | - | - | - | - | - | 3 | - | - | 1 | 11 |
| Arizona.............. | 45 4 | 379 138 | - | - | - | $\overline{1}$ | - | 1 | - | - | - | - |
| Nevada................ | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  | 1 | 142 |
| PACIFIC................ | 702 | 6,774 | - | 3 | - | - | 1 |  | - | - |  | - |
| Washingron. . . . . . . . | 455 | 3,490 | - | - | - | - | - | 1 | - | - |  | 1 |
| Oregon.............. | 35 | 460 | - | 1 | - | - | - | - | - | - | 1 | 141 |
| California.......... | 202 | 2,595 | - | 2 | - | - | 1 | 15 | - | - | - | - |
| Alaska............. | 2 | 76 | - | - | - | - | - | 1 | - | - |  |  |
| Hawai1.............. | 8 | 153 | - | - | - | - | - | 1 | - | - |  |  |
| Puerto Rico............ | - | 18 | - | 4 | - | - | - | 2 | - | - | 1 |  |
| Virgin Islands . . . . . | - | - |  | - | - | - | - | - | - | - |  |  |

Week No. TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MAY 16, 1970
(By place of occurrence and week of filing certificate. Excludes fetal deaths)


Delayed report for week ended May 9, 1970.

THE MOREIDITY AND MORTALITY WEEKLY REPORT，WITH A CIRCULAG TION OF 21,000 IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER，ATLANTA，GEORGIA．
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DIRECTOR，EPIDEMIOLOGYPROGRAM PHILIPS．BRACHMAN，M．D．

## EDITOR

MAITAGING EDITOR
MICHAEL B．GREGG，M．D．

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING
IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE CENTER WELCOMESACCOUNTS OF INTERESTING OUTBREAKS HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES．SUCH COMMUNICATIONS SHOULD BE ADORESSED TO：

NATIONAL COMMUNICABLE DISEASE CENTER
ATTN：THE EDITOR
MOREIDITY AND MORTALITY WEEKLY REPOR ${ }^{1}$
ATLANTA，GEORGIA 30333
NOTE：THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS．THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY；COMPILED DATA ON A NATIONAL BASISARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEV゙ ING FRIDAY．
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