

In January 1966, the Division of Epidemiology of the Michigan State Department of Public Health investigated two cases of gastroenteritis due to Salmonella newbrunswick. The cases occurred in infant males less than 6 months of age residing in different areas of the state, and each had been fed a formula made from instant nonfat dry milk. A review of surveillance data regarding S. newbrunswick showed that before 1965 this serotype had been reported only rarely in the United States. Of the 50,782 isolations of salmonellae from human sources reported between 1947 and 1964, only 13, or 0.02 percent, were S. newbrunswick. In contrast, between April 1965 and January 1966 CONTENTS Epidemiologic Notes and Reports Salmonellosis Associated with Nonfat Dry Milk..... 385 Botulism – Indiana...... 386 Current Trends Measles – 1966 387

there were 29 reported isolations of this serotype from humans, a distinct increase suggesting the possibility of a common source of infection. Accordingly, State Health Departments reporting isolations of this occapiem were asked to submit anidemiologic

ame of a long list of food items

tions of this organism were asked to submit epidemiologic information about the cases to the Communicable Disease (Continued on page 386)

| inspection of mill-drying plants by the | 45th WEEK | ENDED | ob. diligo agle | CUMULA | TIVE, FIR | ST 45 WEEKS |
|---|---|--|------------------|--|---|---|
| DISEASE | NOVEMBER 12, 1966 | NOVEMBER 13, 1965 | 1961 – 1965 | 1966 | 1965 | MEDIAN 1961 - 1965 |
| Aseptic meningitis Brucellosis. Diphtheria. Encephalitis, primary: Arthropod-borne & unspecified . Encephalitis, post-infectious Hepatitis, serum Hepatitis, infectious. Measles (rubeola) Poliomyelitis, Total (including unspecified) Paralytic Nonparalytic Meningococcal infections, Total Civilian Military Rubella (German measles) Streptococcal sore throat & Scarlet fever Tetanus Tularemia Typhoid fever Typhus, tick-borne (Rky. Mt. Spotted fever) | $ \begin{array}{r} 39 \\ 3 \\ 2 \\ 24 \\ 4 \\ 37 \\ 584 \\ 716 \\ 4 \\ 4 \\ 4 \\ 37 \\ 6 \\ 239 \\ 6,159 \\ 2 \\ 2 \\ 5 \\ 5 \\ 5 \end{array} $ | 39 8 5 48 6 527 1,235 - 45 45 45 45 - 6,742 6 2 6 3 | 41 3 7 | $\begin{array}{r} 2,605\\ 208\\ 169\\ 1,879\\ 650\\ 1,239\\ 27,660\\ 194,274\\ 86\\ 79\\ -\\ 3,021\\ 2,734\\ 287\\ 43,564\\ 360,014\\ 168\\ 153\\ 340\\ 235\\ \end{array}$ | 1,860 213 140 1,689 593 29,184 247,629 54 42 9 2,632 2,442 190 336,215 234 224 383 252 | 1,862 350 236 37,499 397,137 378 322 2,067 |
| Rabies in Animals | 43 | 87 | 58 | 3,521 | 3,772 | 3,300 |

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|--|------|---|------|
| Anthrax: | 6 | Botulism: | 8 |
| Leptospirosis: Ark1, Tex1 | 60 | Trichinosis: Cal1 | 87 |
| Malaria: Cal3, Fla2, Ill1, Ky1, Md1, NC1, Pa2. | 410 | Rabies in Man: | 2 |
| Psittacosis: | 40 | Rubella, Congenital Syndrome: Ore1 | 21 |
| Typhus. murine: | 25 | Plague: | 5 |

No Report From State of Washington - Health Department Moving To New Quarters.

No. 45

SALMONELLOSIS ASSOCIATED WITH NONFAT DRY MILK

(Continued from front page)

Center. Of the 29 persons from whom S. new-brunswick was isolated, 2 were lost to follow-up and 2 were clearly secondary cases following documented S. new-brunswick infections in other household members. Twenty-five primary cases thus were available for detailed epidemiologic study of a possible common source of infection.

All persons had symptoms characteristic of salmonellosis, including fever, diarrhea, and vomiting. Eleven patients required hospitalization ranging from 3 to 21 days, and an additional 13 patients required the care of a physician. The cases were geographically scattered throughout the United States. Though illness occurred in all age groups, there was a striking predilection for very young children.

Itemized dietary histories were impossible to obtain because of the long interval between illness and investigation of some of the cases. Instead it was determined whether any of a long list of food items "never," "occasionally," or "frequently" were consumed by the patient.

Powdered milk was the only item to have been consumed with a greater frequency than could be expected. Twenty of the 25 patients had ingested this product within 30 days of their illness. Many foods such as powdered eggs, pork, shellfish, and chicken, often associated with salmonella infections in the past, could be excluded by the low frequency of exposure in this group. No exact figures of consumption of powdered milk by American families were available, but a survey of households with young children in the Atlanta metropolitan area indicated that only 44 percent of the families used nonfat dry milk during the entire year of 1962. Thus, the fact that 80 percent of the *S. newbrunswick* cases had consumed this product within 30 days of illness seemed quite noteworthy. In addition, the hypothesis that powdered milk was the vehicle of infection was

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supported by the fact that several of the infected infants had feeding problems and had a diet consisting almost exclusively of nonfat dry milk.

As this product had not previously been implicated as a source of salmonella infection, bacteriologic examinations were performed on hundreds of shelf samples of many brands of nonfat dry milk by a number of laboratories. The same rare serotype, *S. new-brunswick*, was subsequently isolated from many samples of instant nonfat dry milk produced by a single plant in the midwestern United States. The organism was also isolated within the plant from the equipment and from milk products. The product was recalled from the market in April 1966, and a careful supervised cleanup and remodeling of the plant was instituted.

Inspection of powdered milk plants and bacteriologic examination of their products for salmonellae have been carried out extensively since that time by State Departments of Health and Agriculture, the U.S. Department of Agriculture, and the U.S. Food and Drug Administration. On November 2, 1966, the Borden Company instituted a recall of Starlac Instant Nonfat Dry Milk from the market because of salmonella contamination found by the Food and Drug Administration. On November 9, 1966, the Kroger Company similarly recalled Kroger Instant Nonfat Dry Milk from the market because of contamination with Salmonella cubana.

Investigation of illnesses with these serotypes for possible association with powdered milk is being conducted along with careful inspection of milk-drying plants by the dry milk producers and regulatory agencies.

(Compiled by the Salmonella Unit, Bacteriology Section, Epidemiology Branch, CDC.)

BOTULISM - Indiana

Two cases of botulism have been reported in patients who were hospitalized in Mishawaka, Indiana, on October 21, 1966. A mother and her 5-year-old daughter had presented with symptoms of double and blurred vision, weak neck muscles, and difficulty in swallowing and in walking. These symptoms had begun on October 20, 3 days after a meal which included steak, potatoes, gravy, home-canned beets, and home-canned beans. The mother was treated with 50,000 units of polyvalent (A and B) botulinus antitoxin, and the daughter, with 60,000 units over the first 24 hours. The mother promptly recovered and was discharged October 26. The daughter has been slow in recovering and was discharged November 1 although she still has generalized weakness.

Samples of all leftover foods were obtained from the home. Extracts made from the beets killed white mice when injected intraperiotoneally, but had no effect when the mice were simultaneously injected with polyvalent antitoxin. Cultures of the beets yielded *Clostridium botulinum*, type A. Extracts made from the beans did not kill mice and cultures were negative.

(Reported by Dr. A.L. Marshall, Jr., Director, Division of Communicable Disease Control, Bureau of Preventive Medicine, Indiana State Board of Health; Dr. Louis How, St. Joseph County Health Officer; and Dr. Rafael Rabassa, Attending Physician, Mishawaka, Indiana.)

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CURRENT TRENDS MEASLES - 1966

For the 45th week (ending November 12, 1966), 716 measles cases were reported from 39 States.* This represents an increase of 12 cases over the preceding week and a decrease of 519 cases from the total of 1,235 for the 45th week in 1965. Michigan notified 96 cases, the highest number for the 45th week, while Oregon and Texas both reported more than 80 cases.

The 10 counties reporting 10 or more cases for the 44th week are listed in Table 1; the geographic distribution of counties and health districts reporting measles for that week is shown in Figure 1.

Of the 2, 870 counties and health districts under surveillance in the United States, 430 reported one or more cases of measles during the first 4-week period (weeks 41 through 44, October 9 - November 5, 1966) of the 1966-67 epidemiological year. Thirty counties from 15 different states reported 10 or more cases during at least one week of the 4-week period; 10 of these counties notified 10 or more measles cases at least twice during this period. Snohomish and Spokane Counties in Washington and Wayne County in Michigan reported 10 or more cases for the 43rd Table 1 Counties Reporting Highest Number of Measles Cases for Week Ending November 5, 1966

| County | State | Number of Cases |
|---------------|--------------|-----------------|
| Snohomish | Washington | 60 |
| Park | Wyoming | 44 |
| Spokane | Washington | 42 |
| King | Washington | 41 |
| Golden Valley | North Dakota | 20 |
| Parker | Texas | 18 |
| Milwaukee | Wisconsin | 14 |
| Washington | Oregon | 12 |
| Cameron | Texas | 11 |
| Wayne | Michigan | 10 |

week, the highest number reported for any week from a single county during the 4-week period.

(Reported by the Childhood Viral Diseases Unit, Epidemiology Branch, CDC.) (Continued on page 392)

*The State of Washington did not report by the time of publication.



CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED NOVEMBER 12, 1966 AND NOVEMBER 13, 1965 (45th WEEK)

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| theirbas in summer se | 1966 | 1965 | 1966 | 1966 | 1965 | 1966 | 1966 | 1965 | 1966 | 1966 | 1965 |
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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED NOVEMBER 12, 1966 AND NOVEMBER 13, 1965 (45th WEEK) - CONTINUED

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| UNITED STATES | 716 | 194,274 | 247,629 | 43 | 3,021 | 2,632 | 4 | 1 1 | 4 | 79 | 239 |
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| New Jersey | 4 | 1,899 | 2,916 | | 107 | 88 | | - 28 | 41 | ere to the | without T |
| rennsylvania | · · · · · | 5,414 | 5,854 | 4 | 109 | 100 | - | - | - | 11000 | - |
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| Ohio | 4 | 6,383 | 8,958 | 3 | 138 | 107 | 1 - T | - 44 | ar - | 1 | 2 |
| Indiana | 2 | 5,759 | 2,073 | 3 | 85 | 47 | K | 24 | 110 - | 1 | 30 |
| Illinois | 18 | 11,447 | 3,037 | 1 | 86 | 105 | 0.0 | A.S. | 6 | 2 | 14 |
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| Iowa | 4 | 5,358 | 9,145 | 3 2 | 22 | 12 | 6341 | - 33 | 55 | 30 | 4 |
| Missouri | 30 | 566 | 2,622 | 1 | 61 | 53 | | | 40 | 11 | 3 |
| North Dakota | 52 | 1,233 | 3,881 | - | 11 | 11 | 14-14 | - 221 | 15 - | dial- into | 2 |
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| Georgia | 을 수 있는 | 236 | 623 | 1 | 66 | 59 | | - 362 | | 1 | 1. |
| Florida | 16 | 3,791 | 3,528 | 3 | 94 | 114 | - | - | - | - | 8 |
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| Kentucky | S | 4,754 | 2.859 | - | 90 | 79 | - | - 55.5 | | - | 14 |
| Tennessee | 39 | 12,467 | 8,232 | 1 | 90 | 64 | - | | | | 3 |
| Alabama | 4 | 1,725 | 2,345 | | 56 | 33 | | - 62 | - C | 1 | item ale |
| Mississippi | 4 | 1,034 | 1,141 | - 1 | 24 | 25 | - | - | | 2 | - |
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| Oklahoma | 15 | 534 | 215 | - | 21 | 21 | - ii | - 00. | 1 A A | 1 | Teres and an |
| Texas | 85 | 23,734 | 29,977 | 7 | 201 | 113 | 4 | | 4 | 64 | 2 |
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| Wyoming. | 12 | 214 | 2,00/ | · | 5 | 5 | | | | | - Sherrowski |
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| New Mexico | 2 | 1,150 | 679 | ÷ - 1 | 10 | 11 | | 4 . 3 | S. 2 | | 4 |
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| Hawaii | | 149 | 3,995 | - 14 | 4 | 8 | - | 1.24 | 1.0.20 | | 2 |
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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED NOVEMBER 12, 1966 AND NOVEMBER 13, 1965 (45th WEEK) - CONTINUED

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| New York, Up-State. | 81 | - E | 2 | 1 2 1 | de I - | 3 1 3 | 12 | 40.0 | 13 | | 192 |
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| Pennsylvania | 35 | - | 5 | | | - 1 | 12 | 2 | 18 | | 12 |
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| Indiana | 66 | - | 4 | | 9 | | 4 | 27.2 | | 3 | 106 |
| Michican | 124 | - | 4 | | 6 | 1 | 5 | 340 M | 10 | 2 | 68 |
| Wisconsin | 93 | - | 2 | - | 1 | | 6 | | 5 - HS | - | 53 |
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| Iowa | 165 | | 2 | - 1 | e | 5 - 17 | 5 | 28.2 | | 3 | 154 |
| Missouri | 6 | 1 | 8 | | 10 | 12 - 13 | 15 | 1554-1 | 3 | 2 | 238 |
| North Dakota | 157 | | 1 - 2 | | | 21 - L : | 1 1 | - I | S | 2 | 46 |
| South Dakota | 13 | | - <u>- 1</u> 0 | 1 | 4 | - | 174 - 1 | S.a | - | 4 | 93 |
| Nebraska. Kansas | - 81 | | 1 | - | 2 | 1 | 27 | 90 I I | 1 | 0.1 | 23 61 |
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| Virginia | 131 | | 6 | | 2 | | 15 | 8.8E | 31 | 6.20197.00 | 232 |
| West Virginia | 223 | | - 735 | - | 1 | | 1 | 191.15 - | - 1 | <u></u> | 53 |
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| Alabama | 120 | 1.1.1.1.2 | 8 | | 4 | 10.11 | 6 | 1 1 1 1 | 7 | | 20 |
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| Hawaii | | | | | | | 2_ | 186 | - | | |
| Puerto Rico | 1 | 2 | 53 | | 1 | | 16 | - | 1000 | 110.0440 | 18 |
| the second se | | L | | 1 | | 1 | 1.0.0 | 1.00 | 1 | · | 1 million |

No. 46

391

Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 12, 1966

45

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

| Area All 65 year and 1 year Area All 65 year and Area MEX Area All 65 year and Area Area <t< th=""><th>CENCE P</th><th>A11 Ca</th><th>uses</th><th>Pneumonia</th><th>Under</th><th>Deff : 140 - EstanDistrict</th><th>All Ca</th><th>uses</th><th>Pneumonia</th><th>Under</th></t<> | CENCE P | A11 Ca | uses | Pneumonia | Under | Deff : 140 - EstanDistrict | All Ca | uses | Pneumonia | Under |
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| Jym, Mes. Mes. Link J J I Hehmod, Va. Bes < | Lowell, Mass | 37 | 22 | 3 | - | Norfolk, Va | 50 | 18 | 2 | |
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| Umana, Nebr 54 30 - 3 St. Louis, Mo 157 101 6 5 St. Paul, Minn 69 49 - 2 Wichita, Kans 51 31 3 4 All Causes, All Ages 562,476 All Causes, Age 65 and over | Minneapolis, Minn | 102 | 63 | 2 | 8 | Total | 11,167 | 6,517 | 389 | 615 |
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| Wichita, Kans | St. Paul Minn | 157 | 101 | 6 | 2 | including report | nulacive T | ione for | montour | acke |
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| Pneumonia and Influenza, All Ages 23,213 | | | | | | All Causes, Age 65 and o | over | | 322, | 459 |
| | | | | | | Pneumonia and Influenza | , All Ages | | 23, | 213 |

EANTS: OF NUTLIFIED AND DEPARTED AND TRANSPORT

MEASLES – 1966 – (Continued from page 387)

Paterson, New Jersey

During October 1966, 47 cases of measles were reported from 8 of New Jersey's 21 counties. The largest number of cases was reported from the city of Paterson (MMWR, Vol. 15, No. 42). By October 20, 37 cases were known to the Paterson Board of Health, 34 of which occurred among students attending eight of the city's public and parochial schools. The majority of the cases were reported from the lower socioeconomic areas of Paterson. On October 30 an immunization campaign was conducted by the Paterson Board of Health in a circumscribed lower socioeconomic area of the city. Representatives from the State Board of Health and the local Community Action Program participated in an intensive door-to-door campaign to reach families in this area. Radio, newspaper, and sound truck publicity were also utilized. Within the target area of the campaign, 1,200 children were immunized. Eighty percent of the families who came to the immunization clinic indicated that they were motivated to come as a result of direct personal contact with the organized health workers and volunteers.

In addition, the Paterson School system has distributed 3,308 questionnaires on measles susceptibility among kindergarten through third grade students in the schools located within the defined geographic area. Of the 2,382 forms returned, 1,359 were from students with a history of measles or vaccination, while 1,023 or 42.9 percent of the forms were from children considered to be susceptible. A concentrated effort is now being made by 40 health department employees and community volunteers to visit the homes of the 926 children whose families did not respond to the questionnaire. Their function is to gather the necessary information preparatory to a school immunization program and to stimulate participation in the program.

(Reported by Dr. J. Allen Yeager, Director, Paterson Board of Health; Dr. William J. Dougherty, Director of Preventable Disease Control, New Jersey State Department of Health.)

ERRATUM: Vol. 15, No. 44, p. 378

The date in the title of the Measles County Map should be October 29, not November 5.

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

CHIEF. COMMUNICABLE DISEASE CENTER DAVID J. SENCER, M.D. CHIEF. EPIDEMIOLOGY BRANCH A.D. LANGMUIR, M.D. ACTING CHIEF. STATISTICS SECTION IDA L.SHERMAN. M.S.

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

> THE EDITOR MORBIDITY AND MORTALITY WEEKLY REPORT COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA 20333

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 CONCLUDES ON SATURDAY: COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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