



Morbidity and Mortality

JAN 19 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE • PUBLIC HEALTH SERVICE
ATLANTA 22, GA. BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

EPIDEMIOLOGIC NOTES AND REPORTS

SALMONELLOSIS - Georgia

A large outbreak of salmonella gastroenteritis has been traced to a New Year's Eve party at which a buffet dinner was served. From an incomplete list of approximately 540 guests, 116 persons were interviewed by telephone for clinical and food histories. Of these, 51 (44 percent) were ill with watery diarrhea, cramps, vomiting, headache, and fever of 101°-103°; three persons were briefly hospitalized. The mean incubation period was 22½ hours and the illness lasted from 2 to 4 days. *Salmonella st. paul* has been recovered from stool specimens from five of the patients.

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Food histories clearly incriminated a turkey salad made from commercially prepared, precooked frozen turkey rolls and salad ingredients. The same salad ingredients were used in other salads which were not implicated, and cold sliced turkey from the same lot as the turkey rolls was served separately but not implicated. None of the

(Continued on page 10)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	2nd WEEK ENDED		MEDIAN 1962 - 1966	CUMULATIVE, FIRST 2 WEEKS		
	JANUARY 14, 1967	JANUARY 15, 1966		1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	26	41	30	47	71	49
Brucellosis	2	4	4	6	4	7
Diphtheria	2	2	6	2	3	9
Encephalitis, primary:						
Arthropod-borne & unspecified	21	24	---	37	43	---
Encephalitis, post-infectious	8	16	---	13	25	---
Hepatitis, serum	42	22	869	79	32	1,494
Hepatitis, infectious	718	695	---	1,270	1,360	---
Malaria	19	3	---	40	8	2
Measles (rubeola)	1,345	5,544	6,746	2,417	9,428	11,949
Meningococcal infections, total	76	94	56	118	158	102
Civilian	68	87	---	109	146	---
Military	8	7	---	9	12	---
Poliomyelitis, total	---	---	1	---	1	1
Paralytic	---	---	---	---	---	---
Rubella (German measles)	503	930	---	752	1,326	---
Streptococcal sore throat & scarlet fever	10,211	9,441	8,734	18,525	16,835	15,544
Tetanus	2	---	5	3	3	8
Tularemia	3	4	7	5	8	15
Typhoid fever	2	5	5	4	8	7
Typhus, tick-borne (Rky. Mt. spotted fever)	---	2	---	3	7	1
Rabies in animals	66	70	70	134	142	119

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	---	Rabies in man:	---
Botulism:	---	Rubella, Congenital Syndrome:	---
Leptospirosis: Fla.-1, Hawaii-1	3	Trichinosis: Mass.-1, Pa.-1	4
Plague:	---	Typhus, murine:	---
Psittacosis: Kans.-1, Mass.-1	4		

EPIDEMIOLOGIC NOTES AND REPORTS

SALMONELLOSIS — Georgia

(Continued from front page)

served food was available for culture. The kitchen employees denied symptoms of gastroenteritis, but 6 of 14 stool cultures obtained from them grew *Salmonella st. paul*. All six employees with positive cultures had a hand in preparing the turkey salad and admitted that they had eaten a portion during preparation.

Cultures from the environment and from food ingredi-

ents were negative for salmonellae. Several studies are in progress, including a more extensive sampling of the turkey rolls from the same commercial shipment.

(Reported by Dr. John McCroan, Director, Section of Biologic Studies, and Mr. Tom McKinley, Assistant State Epidemiologist, Georgia Department of Public Health; and two EIS Officers.)

CURRENT TRENDS

MEASLES — 1967

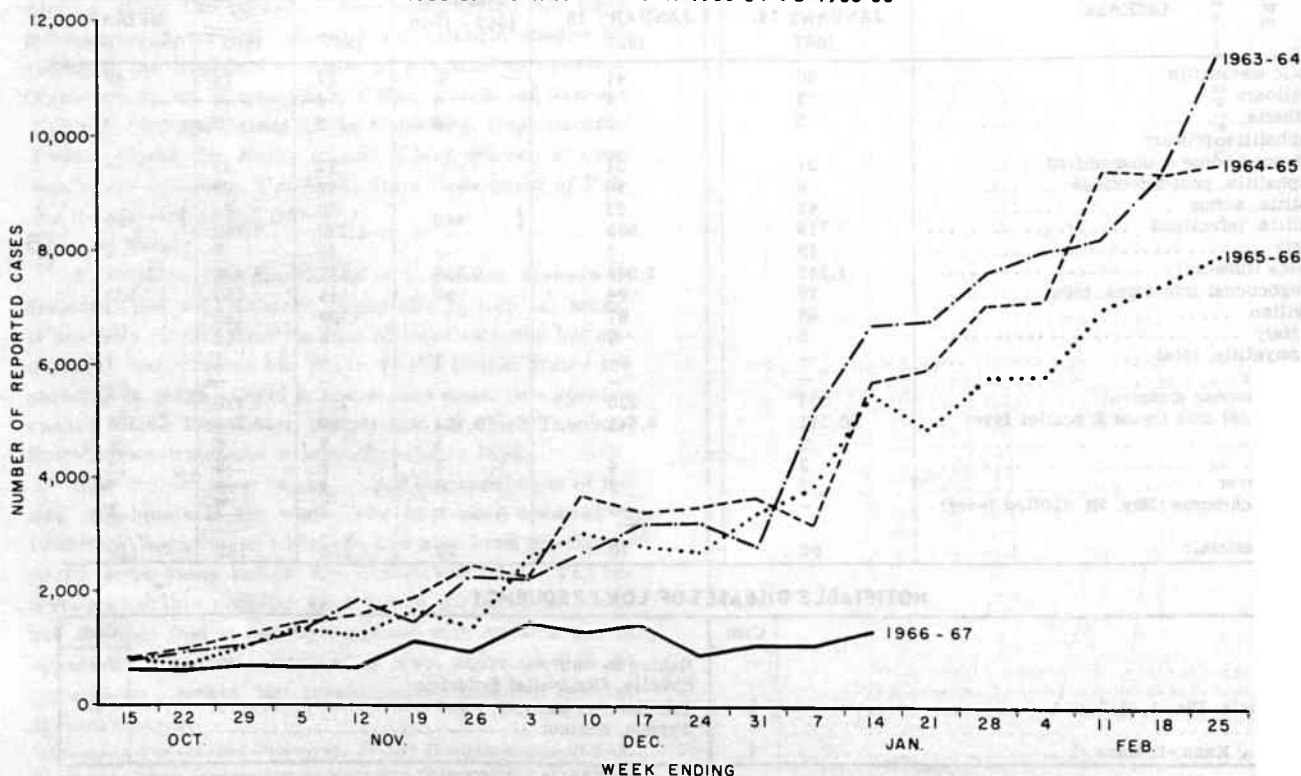
The low level of reported measles in the 1966-67 epidemiologic year continued during the week ending January 14 when 1,345 cases were recorded. This total is 273 cases higher than the total of 1,072 for the week ending January 7, but is 4,199 cases less than the total of 5,544 reported for the comparable week in 1966.

Thirty percent of the current week's total number of

cases were reported from Texas (298 cases) and Washington (110 cases). Seven additional states reported more than 50 cases. Nine states reported less than five cases, and no cases were reported from eight states.

(Reported by the Childhood Viral Diseases Section, Epidemiology Program, NCDC.)

Figure 1
REPORTED MEASLES IN THE UNITED STATES
1966-67 COMPARED WITH 1963-64 TO 1965-66

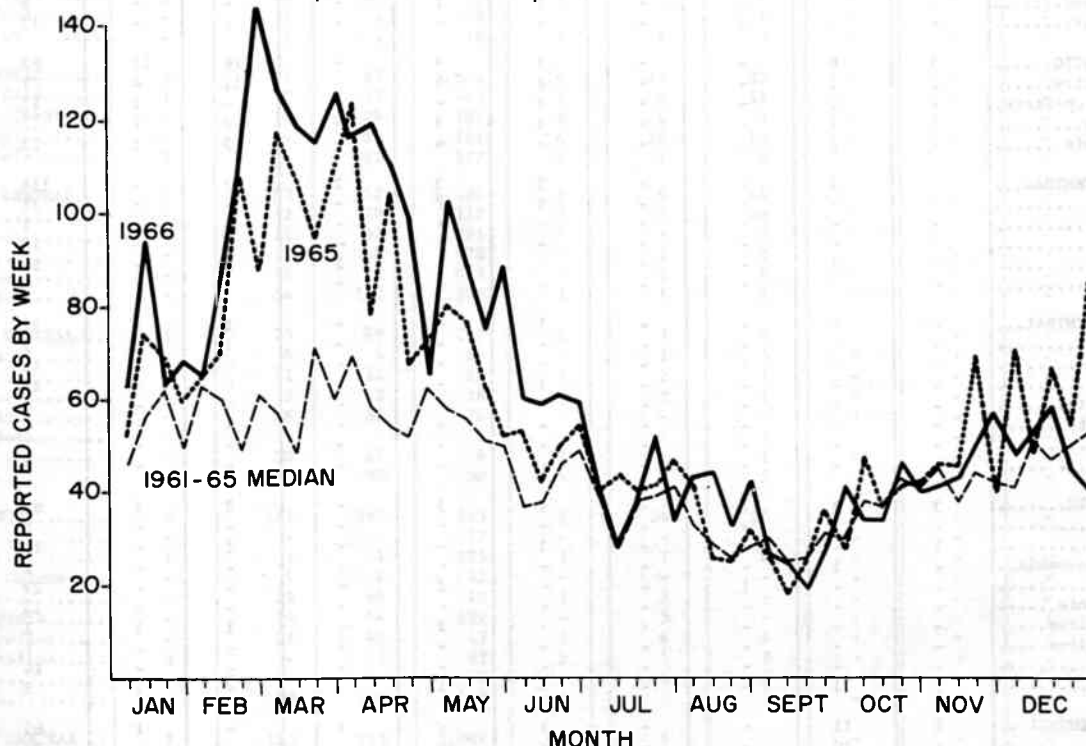


ANNUAL SURVEILLANCE SUMMARY MENINGOCOCCAL INFECTIONS - 1966

The total of 3,373 meningococcal infections reported to the National Communicable Disease Center during 1966 represents an increase of 10.6 percent over the 1965 total of 3,051 cases. Most of this increase occurred from March through June 1966; since July the weekly totals have closely followed those of the previous years (Figure 2).

Of the 1966 total, 331 cases (9.8 percent) were reported from military installations; 80 percent of these cases were from California, Louisiana, New Jersey, Kentucky, Texas, South Carolina, and Missouri. In contrast, only 7 percent of total cases in 1965 were reported from the military.

Figure 2
MENINGOCOCCAL INFECTIONS BY WEEK OF REPORT
1965, 1966 AND MEDIAN, 1961-65 - UNITED STATES



The 1966 attack rate for meningococcal infections in the United States was 1.7 per 100,000. As shown in Figure 3, this represents a continuation of the mild upward trend in attack rates which has been evident since 1962.

Figure 3
MENINGOCOCCAL INFECTIONS-ANNUAL RATE
PER 100,000 - UNITED STATES, 1920-65

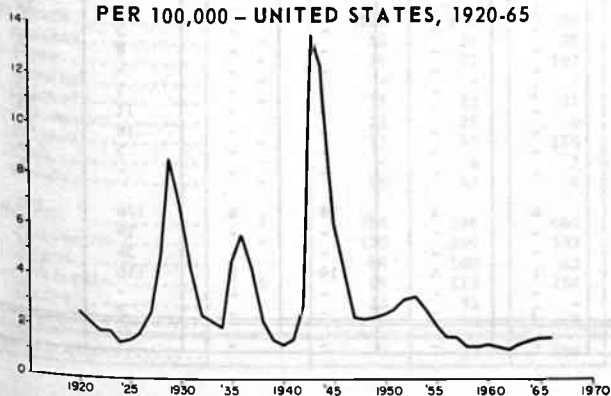


Table 1 presents the analysis by serogroup of 776 strains of *Neisseria meningitidis* which were isolated mainly from blood or cerebrospinal fluid in 1966. As anticipated on the basis of experience in 1964 and 1965, the predominant serogroup was again group B, comprising approximately 70 percent of the total number of strains.

Table 1
Strains of *Neisseria meningitidis*
Submitted to NCDC - 1966

Serogroup	Number	Percent
A	2	0.25
B	548	70.6
C	98	12.6
D	2	0.25
Not typed & "rough" strains	126	16.3
Total	776	100.0

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 14, 1967 AND JANUARY 15, 1966 (2nd WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA
		1967	1967	Cumulative	1967	Cumulative		Total	Paralytic		
						1967	1966		1967	Cum. 1967	
UNITED STATES...	19	1,345	2,417	9,428	76	118	158	-	-	-	503
NEW ENGLAND.....	3	16	24	122	4	4	12	-	-	-	79
Maine.....	1	2	4	16	1	1	-	-	-	-	17
New Hampshire.....	-	-	-	3	-	-	3	-	-	-	-
Vermont.....	-	-	1	47	-	-	1	-	-	-	-
Massachusetts.....	2	11	16	28	2	2	4	-	-	-	25
Rhode Island.....	-	2	2	9	-	-	1	-	-	-	5
Connecticut.....	-	1	1	19	1	1	3	-	-	-	32
MIDDLE ATLANTIC.....	3	62	92	1,640	14	21	35	-	-	-	18
New York City.....	1	10	13	740	2	4	11	-	-	-	11
New York, Up-State.....	-	16	29	282	5	6	5	-	-	-	6
New Jersey.....	-	19	29	241	6	10	10	-	-	-	-
Pennsylvania.....	2	17	21	377	1	1	9	-	-	-	1
EAST NORTH CENTRAL...	-	153	252	4,101	5	8	24	-	-	-	118
Ohio.....	-	12	19	212	3	5	10	-	-	-	8
Indiana.....	-	21	41	221	-	-	3	-	-	-	5
Illinois.....	-	12	18	978	1	1	3	-	-	-	11
Michigan.....	-	54	72	488	-	1	6	-	-	-	42
Wisconsin.....	-	54	102	2,202	1	1	2	-	-	-	52
WEST NORTH CENTRAL...	1	75	89	231	6	7	9	-	-	-	16
Minnesota.....	-	4	4	66	1	1	3	-	-	-	4
Iowa.....	-	11	14	68	2	2	1	-	-	-	6
Missouri.....	1	2	2	16	2	2	1	-	-	-	1
North Dakota.....	-	28	37	76	-	-	-	-	-	-	5
South Dakota.....	-	-	-	1	-	-	1	-	-	-	-
Nebraska.....	-	30	32	4	1	2	1	-	-	-	-
Kansas.....	-	NN	NN	NN	-	-	2	-	-	-	-
SOUTH ATLANTIC.....	4	141	247	965	8	24	26	-	-	-	29
Delaware.....	-	-	-	17	-	-	-	-	-	-	-
Maryland.....	1	1	1	125	1	1	4	-	-	-	3
Dist. of Columbia..	-	4	4	32	-	-	-	-	-	-	-
Virginia.....	-	23	46	20	1	2	-	-	-	-	1
West Virginia.....	-	16	44	559	-	3	-	-	-	-	15
North Carolina.....	-	27	43	13	2	6	4	-	-	-	-
South Carolina.....	3	-	1	72	1	1	7	-	-	-	-
Georgia.....	-	-	-	20	-	4	4	-	-	-	-
Florida.....	-	70	108	107	3	7	7	-	-	-	10
EAST SOUTH CENTRAL...	1	113	273	1,007	4	6	1	-	-	-	14
Kentucky.....	-	8	33	282	-	1	-	-	-	-	5
Tennessee.....	-	73	121	687	3	4	1	-	-	-	9
Alabama.....	1	4	34	9	1	1	-	-	-	-	-
Mississippi.....	-	28	85	29	-	-	-	-	-	-	-
WEST SOUTH CENTRAL...	2	380	650	492	12	19	10	-	-	-	27
Arkansas.....	-	61	66	18	-	-	1	-	-	-	1
Louisiana.....	1	9	9	10	6	8	2	-	-	-	-
Oklahoma.....	1	12	16	1	-	-	-	-	-	-	-
Texas.....	-	298	559	463	6	11	7	-	-	-	26
MOUNTAIN.....	-	121	234	408	1	2	8	-	-	-	53
Montana.....	-	11	56	79	-	-	-	-	-	-	1
Idaho.....	-	16	22	107	-	-	-	-	-	-	37
Wyoming.....	-	-	-	7	-	-	-	-	-	-	-
Colorado.....	-	15	33	27	-	-	8	-	-	-	1
New Mexico.....	-	22	29	2	1	2	-	-	-	-	-
Arizona.....	-	21	43	175	-	-	-	-	-	-	14
Utah.....	-	-	4	7	-	-	-	-	-	-	-
Nevada.....	-	36	47	4	-	-	-	-	-	-	-
PACIFIC.....	5	284	556	462	22	27	33	-	-	-	149
Washington.....	-	110	269	132	1	1	1	-	-	-	46
Oregon.....	-	88	140	65	2	3	2	-	-	-	39
California.....	5	69	112	258	19	23	21	-	-	-	56
Alaska.....	-	13	31	-	-	-	7	-	-	-	5
Hawaii.....	-	4	4	7	-	-	2	-	-	-	3
Puerto Rico.....	-	7	50	108	-	-	-	-	-	-	2

[illegible]

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Week No. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JANUARY 14, 1967

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	787	458	47	30	SOUTH ATLANTIC:	1,356	672	64	97
Boston, Mass.-----	258	140	21	8	Atlanta, Ga.-----	174	76	3	13
Bridgeport, Conn.-----	43	26	5	1	Baltimore, Md.-----	283	140	12	18
Cambridge, Mass.-----	35	25	-	2	Charlotte, N. C.-----	55	21	1	3
Fall River, Mass.-----	37	23	1	1	Jacksonville, Fla.-----	101	41	9	11
Hartford, Conn.-----	45	21	1	3	Miami, Fla.-----	112	64	3	7
Lowell, Mass.-----	18	10	3	1	Norfolk, Va.-----	54	29	5	2
Lynn, Mass.-----	18	15	2	-	Richmond, Va.-----	82	34	4	9
New Bedford, Mass.-----	33	24	2	-	Savannah, Ga.-----	53	23	2	2
New Haven, Conn.-----	60	32	4	2	St. Petersburg, Fla.-----	98	80	8	-
Providence, R. I.-----	69	41	-	6	Tampa, Fla.-----	74	49	4	2
Somerville, Mass.-----	14	10	-	-	Washington, D. C.-----	217	89	10	26
Springfield, Mass.-----	60	34	4	1	Wilmington, Del.-----	53	26	3	4
Waterbury, Conn.-----	40	25	1	3					
Worcester, Mass.-----	57	32	3	2	EAST SOUTH CENTRAL:	782	421	45	52
MIDDLE ATLANTIC:	3,594	2,146	154	143	Birmingham, Ala.-----	119	55	2	7
Albany, N. Y.-----	49	28	2	2	Chattanooga, Tenn.-----	53	34	5	2
Allentown, Pa.-----	38	22	1	2	Knoxville, Tenn.-----	48	26	-	2
Buffalo, N. Y.-----	158	98	-	7	Louisville, Ky.-----	184	111	16	7
Camden, N. J.-----	48	23	3	1	Memphis, Tenn.-----	166	95	6	16
Elizabeth, N. J.-----	24	13	3	-	Mobile, Ala.-----	49	18	1	5
Erie, Pa.-----	40	25	3	2	Montgomery, Ala.-----	53	26	6	6
Jersey City, N. J.-----	88	55	4	4	Nashville, Tenn.-----	110	56	9	7
Newark, N. J.-----	112	55	8	12					
New York City, N. Y.-----	1,833	1,082	85	78	WEST SOUTH CENTRAL:	1,289	637	54	116
Paterson, N. J.-----	38	23	3	1	Austin, Tex.-----	59	37	1	7
Philadelphia, Pa.-----	560	339	20	12	Baton Rouge, La.-----	35	16	-	3
Pittsburgh, Pa.-----	181	98	4	7	Corpus Christi, Tex.-----	27	13	-	3
Reading, Pa.-----	67	47	1	3	Dallas, Tex.-----	173	74	3	13
Rochester, N. Y.-----	116	79	9	8	El Paso, Tex.-----	49	21	6	8
Schenectady, N. Y.-----	32	24	1	-	Fort Worth, Tex.-----	100	57	5	8
Scranton, Pa.-----	44	31	1	-	Houston, Tex.-----	173	81	5	19
Syracuse, N. Y.-----	48	28	-	3	Little Rock, Ark.-----	60	31	2	8
Trenton, N. J.-----	48	29	-	-	New Orleans, La.-----	232	107	10	23
Utica, N. Y.-----	32	22	2	1	Oklahoma City, Okla.-----	84	45	3	5
Yonkers, N. Y.-----	38	25	4	-	San Antonio, Tex.-----	132	69	4	9
					Shreveport, La.-----	72	35	7	6
					Tulsa, Okla.-----	93	51	8	4
EAST NORTH CENTRAL:	2,810	1,584	91	165					
Akron, Ohio-----	70	44	-	2	MOUNTAIN:	513	296	21	25
Canton, Ohio-----	22	15	-	1	Albuquerque, N. Mex.-----	48	21	3	6
Chicago, Ill.-----	820	432	43	53	Colorado Springs, Colo.-----	23	13	1	2
Cincinnati, Ohio-----	186	107	1	9	Denver, Colo.-----	147	91	4	9
Cleveland, Ohio-----	253	140	3	13	Ogden, Utah-----	19	9	1	-
Columbus, Ohio-----	128	62	-	13	Phoenix, Ariz.-----	113	59	8	6
Dayton, Ohio-----	78	46	2	4	Pueblo, Colo.-----	36	26	1	1
Detroit, Mich.-----	382	216	9	24	Salt Lake City, Utah-----	48	27	1	-
Evansville, Ind.-----	53	35	1	2	Tucson, Ariz.-----	79	50	2	1
Flint, Mich.-----	43	24	3	4					
Fort Wayne, Ind.-----	51	32	3	3	PACIFIC:	1,867	1,156	59	79
Gary, Ind.-----	61	32	3	4	Berkeley, Calif.-----	24	17	-	-
Grand Rapids, Mich.-----	45	35	8	2	Fresno, Calif.-----	39	26	1	-
Indianapolis, Ind.-----	144	80	6	7	Glendale, Calif.-----	40	29	-	1
Madison, Wis.-----	23	13	-	2	Honolulu, Hawaii-----	48	22	-	3
Milwaukee, Wis.-----	149	95	1	5	Long Beach, Calif.-----	101	53	5	5
Peoria, Ill.-----	41	22	-	2	Los Angeles, Calif.-----	730	471	27	39
Rockford, Ill.-----	35	18	3	2	Oakland, Calif.-----	60	28	-	3
South Bend, Ind.-----	43	20	2	2	Pasadena, Calif.-----	50	39	3	2
Toledo, Ohio-----	113	71	1	8	Portland, Oreg.-----	118	67	1	2
Youngstown, Ohio-----	70	45	2	3	Sacramento, Calif.-----	74	40	3	3
WEST NORTH CENTRAL:	1,033	645	39	45	San Diego, Calif.-----	102	59	1	5
Des Moines, Iowa-----	104	62	4	7	San Francisco, Calif.-----	202	130	2	5
Duluth, Minn.-----	23	17	-	-	San Jose, Calif.-----	36	23	2	-
Kansas City, Kans.-----	48	25	5	7	Seattle, Wash.-----	146	86	9	8
Kansas City, Mo.-----	161	102	4	1	Spokane, Wash.-----	47	32	2	2
Lincoln, Nebr.-----	24	21	-	-	Tacoma, Wash.-----	50	34	3	1
Minneapolis, Minn.-----	149	99	5	3					
Omaha, Nebr.-----	91	59	2	5	Total	14,031	8,015	574	752
St. Louis, Mo.-----	286	164	13	15					
St. Paul, Minn.-----	86	63	2	4					
Wichita, Kans.-----	61	33	4	3					

*Estimate - based on average percent of divisional total.

Cumulative Totals
including reported corrections for previous weeks

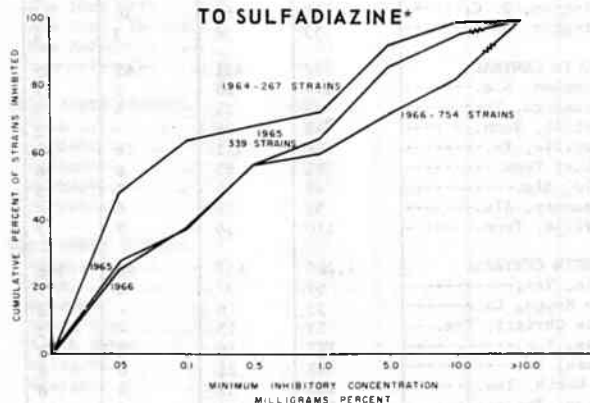
All Causes, All Ages -----	27,480
All Causes, Age 65 and over-----	15,677
Pneumonia and Influenza, All Ages-----	1,168
All Causes, Under 1 Year of Age-----	1,445

MENINGOCOCCAL INFECTIONS - 1966

(Continued from page 11)

The sulfadiazine sensitivity of meningococci submitted to the NCDC from 1964 to 1966 is shown in Figure 4. The pattern of sulfadiazine sensitivity of strains isolated in 1966 was quite similar to that observed in 1965, especially at minimum inhibitory concentrations of 1 milligram percent or less. There was, however, a higher proportion of strains in 1966 that required 5 milligrams percent or more for inhibition. Forty percent of the 1966 strains were resistant to a concentration of 1 milligram percent of sulfadiazine.

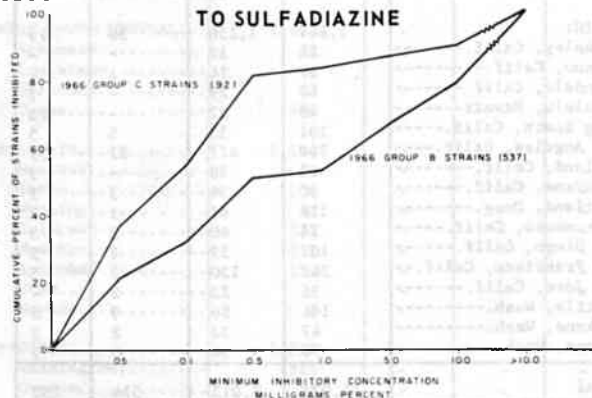
Figure 4
SUSCEPTIBILITY OF MENINGOCOCCI
TO SULFADIAZINE*



*ISOLATED FROM BLOOD OR CEREBROSPINAL FLUID SUBMITTED TO THE NCDC

In Figure 5 the sulfonamide sensitivity of groups B and C *Neisseria meningitidis* is compared. In contrast to the generally more resistant group B meningococci, over 80 percent of group C strains were inhibited by 1 milligram percent or less of sulfadiazine. Nevertheless, 10 percent of group C strains were resistant to 10 milligrams percent sulfadiazine.

Figure 5
SUSCEPTIBILITY OF GROUP B AND C MENINGOCOCCI
TO SULFADIAZINE



(Reported by the Bacterial Diseases Section, Epidemiology Program; and Dr. Joseph H. Schubert, Bacterial Serology Unit, Bacteriology Section, Laboratory Improvement Program, NCDC.)

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS 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
NATIONAL COMMUNICABLE DISEASE CENTER
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 ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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