



# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION  
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**EPIDEMIOLOGIC NOTES AND REPORTS**  
**PLAGUE - Wallowa County, Oregon**

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On Nov. 13, 1970, 2 days after injuring his right shoulder in an accident, a 49-year-old man from Lebanon, Oregon, developed diarrhea during a hunting trip. Four days later, he was feverish and confused, and after being examined by a physician, was admitted to a nearby hospital. On admission, he was restless, confused, and dehydrated. His temperature was 102°F. and his blood pressure 90/60. He was noted to have tender right axillary adenopathy; however, no lesions were noted on the hands or arms. The patient was started on parenteral ampicillin. Five hours after admission, his temperature rose to 105°F., and approximately 1 hour later he died.

Postmortem examination revealed pulmonary congestion, localized hemorrhage in the deep portion of the right pectoral muscles, and inflammatory reaction in the right

axillary lymph nodes. Histologic staining of microabscesses found in the lymph nodes showed pleomorphic organisms. Blood samples taken before his death were cultured and later grew *Yersinia pestis*.

The patient had gone hunting in Wallowa County from November 7-14. On November 12, one of his companions killed a rabbit, another skinned it, and the patient removed the viscera; it was then cooked and eaten.

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

DISEASE	48th WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 48 WEEKS		
	December 5, 1970	November 29, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis . . . . .	116	45	52	5,804	3,280	2,841
Brucellosis . . . . .	1	2	7	195	215	227
Diphtheria . . . . .	12	3	3	413	176	184
Encephalitis, primary:						
Arthropod-borne & unspecified . . . . .	38	33	30	1,471	1,220	1,487
Encephalitis, post-infectious . . . . .	3	4	8	355	280	618
Hepatitis, serum . . . . .	151	103	851	6,770	4,907	37,741
Hepatitis, infectious . . . . .	1,085	867		52,215	44,200	
Malaria . . . . .	57	54	46	3,202	2,903	1,936
Measles (rubeola) . . . . .	574	646	646	43,524	23,231	60,732
Meningococcal infections, total . . . . .	44	51	48	2,269	2,722	2,722
Civilian . . . . .	28	26	38	2,001	2,485	2,485
Military . . . . .	16	25	2	268	237	201
Mumps . . . . .	2,357	1,753	---	93,099	80,558	---
Poliomyelitis, total . . . . .	1	---	---	27	17	56
Paralytic . . . . .	1	---	---	27	16	42
Rubella (German measles) . . . . .	567	375	---	53,681	53,014	---
Tetanus . . . . .	3	1	6	125	149	185
Tularemia . . . . .	3	1	1	145	136	166
Typhoid fever . . . . .	14	5	6	335	309	373
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	2	2	2	338	447	276
Rabies in animals . . . . .	60	57	61	2,793	3,081	3,738

**TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY**

	Cum.		Cum.
Anthrax: . . . . .	2	Psittacosis: Mich.-1, N.Y.C.-1 . . . . .	35
Botulism: . . . . .	12	Rabies in Man: . . . . .	2
Leprosy: Calif.-1, Ga.-1, N.Y.C.-1, Tex.-1 . . . . .	113	Rubella congenital syndrome: Calif.-1, N.Y.Ups.-1 . . . . .	63
Leptospirosis: Tenn.-1 . . . . .	42	Trichinosis: Calif.-5, Ill.-2, Ohio-2 . . . . .	104
Plague: . . . . .	12	Typhus, murine: . . . . .	32

**PLAGUE** - (Continued from front page)

Wallowa County and other counties in eastern Oregon have been areas of known animal plague for several decades. Plague field studies are in progress.

(Reported by Frank Girod, M.D., private physician, Lebanon, Oregon; Wayne H. Phillips, M.D., Pathologist, Corvallis, Oregon; John Guepe, M.D., Health Officer, Linn County Health Department; G. Brandon, Director, Public Health Laboratory; Monroe Holmes, D.V.M., Veterinary

Epidemiologist, Morris Chelsky, Director of Epidemiology, Oregon State Board of Health; and an EIS Officer.)

**Editorial Note:**

This is the first reported death from plague in the United States this year, and the sixth death since 1965. The case fatality ratio for this 6-year period has therefore reached 16 percent (6 of 37 cases). Since 1900, only one other case of plague has been reported in Oregon, and this was in 1934. The other 12 cases reported in 1970 were in New Mexico (9) and California (3).

**CURRENT TRENDS**  
**INFLUENZA - United States**

On Dec. 8, 1970, a telephone survey of all state health departments was conducted by CDC's Respiratory Diseases Unit as part of its routine influenza surveillance activities. The results indicated only the usual seasonal increase in respiratory illness; there were no confirmed outbreaks of influenza, although scattered small-scale outbreaks of influenza-like illness have been noted in a number of states. There have been no isolations of influenza virus in the country so far this season.

Figure 1 represents pneumonia-influenza deaths in the

United States by geographic division, as reported to CDC by 122 cities. Reports through the 48th week reflect the usual seasonal increase in reported deaths for the United States as a whole, but in the New England and East North Central divisions, there are slight excursions above epidemic threshold levels. The significance of a single week's elevation above expected levels is too early to assess. Sustained excursions above expected levels for 4-5 weeks however, are believed to represent more accurately probable influenza activity.

**EPIDEMIOLOGIC NOTES AND REPORTS**  
**POSSIBLE INH-ASSOCIATED HEPATITIS - Washington, D.C.**

On Nov. 13 and 18, 1970, two Capitol Hill employees died of liver failure clinically consistent with hepatitis. Neither employee was known to have been exposed to blood transfusions, needles, shellfish ingestion or intimate contact with other jaundiced persons in the 6 months prior to onset of hepatitis. No epidemiologic links between these two patients could be established, although both were taking an anti-tuberculosis drug, isoniazid (INH).

Both men started taking INH in February 1970, when they were found to have positive tuberculin skin tests. At that time, 13,586 employees were skin tested for tuberculosis after eight cases of tuberculosis (including two deaths) had occurred on Capitol Hill; 2,920 were skin-test positive. For 338 reactors, isoniazid was believed to be medically contraindicated. Isoniazid was recommended for the other 2,582 reactors; 2,321 chose to participate in the preventive treatment program.

In the first 4 months of therapy, INH was distributed monthly by Capitol Hill nurses, and thereafter, at two-month intervals. Medical consultation was available to persons reporting possible side effects. Individuals who failed to come for INH refills were contacted and asked the reason. Approximately 250 persons discontinued therapy because of side effects presumed to be associated with the medication; 350 persons withdrew for other reasons. Early side effects included vague gastrointestinal complaints (94),

fever and chills (32), dizziness (26), rash (25), fatigue (23), symptoms or signs of liver dysfunction (6) and other miscellaneous side effects (45). Neither of the two men who died complained to the nurse of any symptoms.

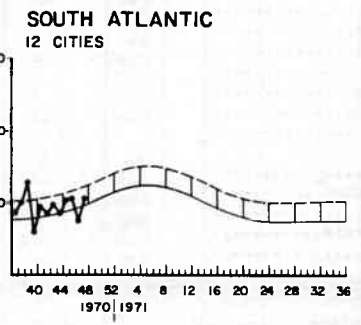
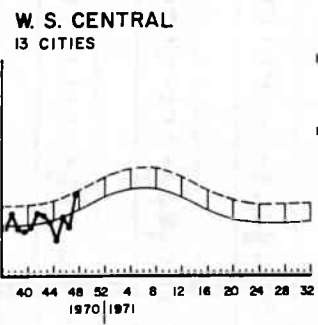
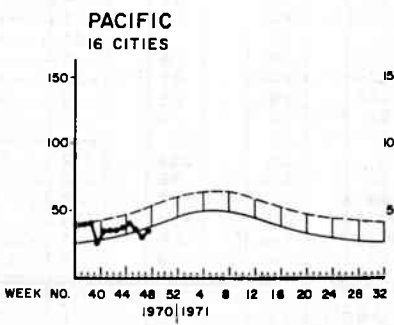
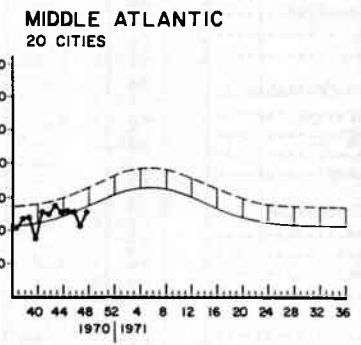
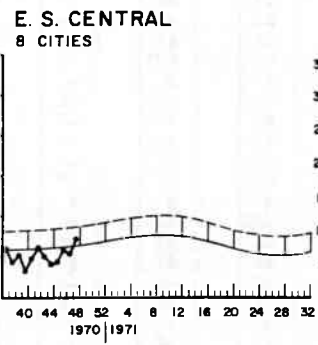
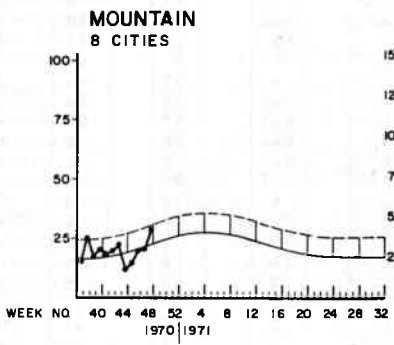
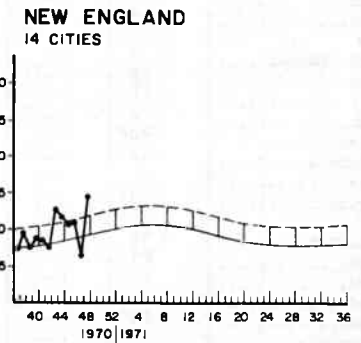
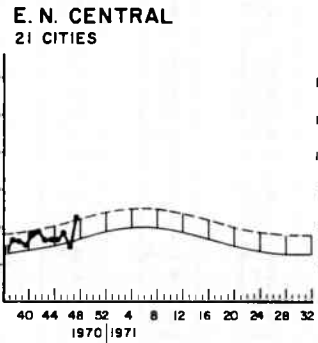
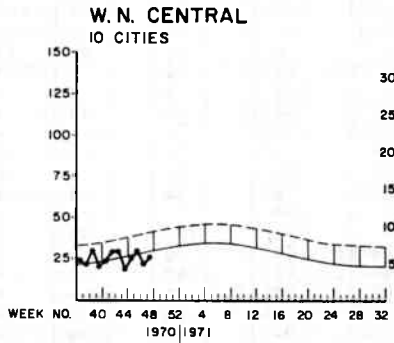
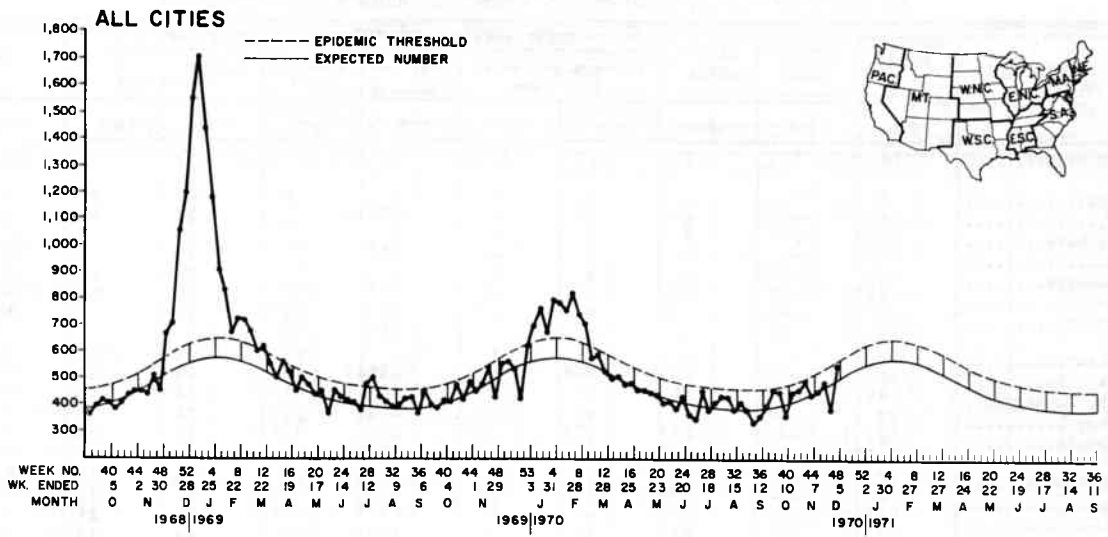
Because of these two deaths, an epidemiologic investigation was started in November to identify other possible cases of liver dysfunction among INH recipients. Hepatitis was diagnosed where there was a history of jaundice and/or dark urine. A total of 17 cases have been uncovered, including the two fatal cases; 11 of these patients had been jaundiced and the others had dark urine, as well as other clinical characteristics suggestive of hepatitis.

Onsets were noted throughout the 9-month period of therapy, with the majority occurring in the first 3 months (Figure 2). The two men who died had onset at 5 1/2 and 7 1/2 months.

The 17 patients included eight males and nine females; their mean age was 47.7 years. Fourteen were white and three were black. Nine patients were hospitalized. Sera from six patients tested for hepatitis associated (Australia) antigen during the acute disease were reported negative. One patient had received a blood transfusion 6 months before onset of hepatitis; none of the others had known exposures to needles, blood transfusions, raw clams or oysters, or other jaundiced persons.

(Continued on page 468)

Figure 1  
PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES



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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

DECEMBER 5, 1970 AND NOVEMBER 29, 1969 (48th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious		1970	Cum. 1970
				1970	1969	1970	1970	1970	1969		
UNITED STATES.....	116	1	12	38	33	3	151	1,085	867	57	3,202
NEW ENGLAND.....	6	-	-	2	3	-	9	129	90	4	86
Maine.....	-	-	-	-	-	-	-	24	10	1	11
New Hampshire.....	-	-	-	-	-	-	-	6	3	-	6
Vermont.....	-	-	-	-	-	-	-	13	2	-	5
Massachusetts.....	4	-	-	1	1	-	7	57	47	2	41
Rhode Island.....	2	-	-	-	2	-	-	10	16	-	9
Connecticut.....	-	-	-	1	-	-	2	19	12	1	14
MIDDLE ATLANTIC.....	15	-	-	2	1	-	53	194	156	1	305
New York City.....	6	-	-	-	1	-	17	41	41	-	40
New York, Up-State...	4	-	-	-	-	-	2	38	52	1	90
New Jersey.....	3	-	-	1	-	-	25	75	36	-	75
Pennsylvania.....	2	-	-	1	-	-	9	40	27	-	100
EAST NORTH CENTRAL.....	17	-	-	12	15	-	22	162	178	6	195
Ohio.....	4	-	-	2	12	-	3	54	45	-	31
Indiana.....	-	-	-	-	1	-	-	15	21	-	24
Illinois.....	6	-	-	1	-	-	1	26	23	4	56
Michigan.....	6	-	-	4	2	-	18	61	80	2	84
Wisconsin.....	1	-	-	5	-	-	-	6	9	-	-
WEST NORTH CENTRAL.....	8	-	-	2	3	-	6	35	28	13	329
Minnesota.....	5	-	-	-	1	-	1	4	9	1	33
Iowa.....	-	-	-	1	2	-	1	9	4	-	25
Missouri.....	-	-	-	-	-	-	-	3	14	1	33
North Dakota.....	-	-	-	-	-	-	-	4	-	-	3
South Dakota.....	-	-	-	-	-	-	-	1	-	-	2
Nebraska.....	-	-	-	-	-	-	-	-	-	2	9
Kansas.....	3	-	-	1	-	-	4	14	1	9	224
SOUTH ATLANTIC.....	15	-	-	11	3	1	15	103	76	5	581
Delaware.....	1	-	-	-	1	-	-	2	3	-	2
Maryland.....	-	-	-	1	-	1	5	17	17	-	76
Dist. of Columbia....	-	-	-	-	-	-	1	1	-	-	2
Virginia.....	7	-	-	5	-	-	4	24	7	-	79
West Virginia.....	-	-	-	-	-	-	-	7	8	-	11
North Carolina.....	-	-	-	1	-	-	3	13	8	1	217
South Carolina.....	2	-	-	-	-	-	-	11	3	3	52
Georgia.....	-	-	-	-	-	-	-	1	17	-	90
Florida.....	5	-	-	4	2	-	2	27	13	1	52
EAST SOUTH CENTRAL.....	34	-	1	3	-	1	-	87	45	1	193
Kentucky.....	2	-	-	-	-	-	-	38	14	-	157
Tennessee.....	2	-	-	-	-	1	-	37	27	-	-
Alabama.....	30	-	1	3	-	-	-	10	3	-	24
Mississippi.....	-	-	-	-	-	-	-	2	1	1	12
WEST SOUTH CENTRAL.....	5	-	8	2	3	-	5	74	48	3	577
Arkansas.....	2	-	-	-	1	-	-	-	4	-	15
Louisiana.....	2	-	-	1	-	-	1	20	7	-	46
Oklahoma.....	-	-	-	1	2	-	-	2	1	1	92
Texas.....	1	-	8	-	-	-	4	52	36	2	424
MOUNTAIN.....	-	-	2	-	1	-	2	47	34	10	339
Montana.....	-	-	-	-	1	-	-	7	-	-	10
Idaho.....	-	-	-	-	-	-	-	11	-	1	8
Wyoming.....	-	-	-	-	-	-	-	1	1	-	-
Colorado.....	-	-	-	-	-	-	-	-	21	9	297
New Mexico.....	-	-	-	-	-	-	1	9	5	-	10
Arizona.....	-	-	2	-	-	-	-	10	4	-	10
Utah.....	-	-	-	-	-	-	1	9	3	-	4
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	16	1	1	4	4	1	39	254	212	14	597
Washington.....	-	-	1	1	-	-	-	45	30	2	49
Oregon.....	-	1	-	-	-	-	-	47	13	3	25
California.....	14	-	-	3	4	1	39	154	161	7	380
Alaska.....	-	-	-	-	-	-	-	-	1	1	2
Hawaii.....	2	-	-	-	-	-	-	8	7	1	141
Puerto Rico*	-	-	-	-	-	-	1	23	17	-	27
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

\*Delayed reports: Hepatitis, serum: N.J. delete 1, Ala. 1  
Hepatitis, infectious: N.J. delete 1, Wash. 1, P.R. 2  
Malaria: P.R. 17

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

DECEMBER 5, 1970 AND NOVEMBER 29, 1969 (48th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1970	Cumulative		1970	Cumulative		1970	Cum. 1970	Total	Paralytic	
		1970	1969		1970	1969			1970	1970	Cum. 1970
UNITED STATES.....	574	43,524	23,231	44	2,269	2,722	2,357	93,099	1	1	27
NEW ENGLAND.....	128	1,137	1,165	-	98	107	307	10,701	-	-	-
Maine.....	105	382	9	-	5	8	22	775	-	-	-
New Hampshire.....	-	61	244	-	9	4	-	386	-	-	-
Vermont.....	-	8	3	-	8	-	24	704	-	-	-
Massachusetts.....	19	459	237	-	39	41	93	3,233	-	-	-
Rhode Island.....	-	120	27	-	6	14	69	2,122	-	-	-
Connecticut.....	4	107	645	-	31	40	99	3,481	-	-	-
MIDDLE ATLANTIC.....	32	5,136	7,837	14	420	450	163	8,732	-	-	-
New York City.....	22	1,026	4,999	-	87	86	22	2,993	-	-	-
New York, Up-State...	1	337	616	-	78	88	NN	NN	-	-	-
New Jersey.....	1	1,726	1,071	12	176	174	126	2,502	-	-	-
Pennsylvania.....	8	2,047	1,151	2	79	102	15	3,237	-	-	-
EAST NORTH CENTRAL.....	73	10,330	2,684	4	261	369	702	25,843	-	-	2
Ohio.....	8	3,880	492	-	93	136	72	4,467	-	-	-
Indiana.....	2	278	478	1	23	48	59	2,251	-	-	-
Illinois.....	10	3,171	708	2	67	52	65	2,012	-	-	-
Michigan.....	7	1,822	360	1	66	106	290	6,674	-	-	1
Wisconsin.....	46	1,179	646	-	12	27	216	10,439	-	-	1
WEST NORTH CENTRAL.....	10	3,924	1,378	1	118	135	131	5,045	-	-	1
Minnesota.....	-	40	9	-	19	29	20	531	-	-	-
Iowa.....	2	1,172	338	-	14	21	89	3,151	-	-	-
Missouri.....	1	1,277	31	1	63	56	1	404	-	-	1
North Dakota.....	-	321	44	-	5	2	15	360	-	-	-
South Dakota.....	6	104	51	-	1	1	3	45	-	-	-
Nebraska.....	1	941	897	-	8	10	2	399	-	-	-
Kansas.....	-	69	8	-	8	16	1	155	-	-	-
SOUTH ATLANTIC.....	26	7,448	2,780	4	447	471	225	10,028	-	-	-
Delaware.....	1	268	442	-	3	17	5	362	-	-	-
Maryland.....	-	1,387	88	-	45	41	21	1,066	-	-	-
Dist. of Columbia...	-	345	65	-	3	9	5	214	-	-	-
Virginia.....	7	2,069	928	-	46	57	10	2,168	-	-	-
West Virginia.....	2	331	221	1	13	24	46	2,493	-	-	-
North Carolina.....	8	917	342	-	96	88	NN	NN	-	-	-
South Carolina.....	6	614	134	-	46	58	5	946	-	-	-
Georgia.....	-	18	2	1	41	77	-	3	-	-	-
Florida.....	2	1,499	558	2	154	100	133	2,776	-	-	-
EAST SOUTH CENTRAL.....	68	1,693	121	2	161	195	207	5,557	-	-	-
Kentucky.....	10	918	67	1	59	78	95	2,023	-	-	-
Tennessee.....	20	444	20	-	66	71	86	3,116	-	-	-
Alabama.....	32	224	10	-	24	27	26	362	-	-	-
Mississippi.....	6	107	24	1	12	19	-	56	-	-	-
WEST SOUTH CENTRAL.....	189	8,839	4,998	3	280	356	122	8,525	1	1	22
Arkansas.....	-	30	16	-	23	32	-	138	-	-	-
Louisiana.....	22	196	125	2	70	98	2	44	-	-	-
Oklahoma.....	7	773	142	-	21	36	3	2,697	-	-	-
Texas.....	160	7,840	4,715	1	166	190	117	5,646	1	1	22
MOUNTAIN.....	19	1,741	1,094	-	50	58	88	4,213	-	-	1
Montana.....	-	101	92	-	1	8	5	798	-	-	-
Idaho.....	-	108	90	-	7	13	3	103	-	-	-
Wyoming.....	-	11	-	-	2	-	4	42	-	-	-
Colorado.....	1	192	141	-	17	12	24	1,488	-	-	1
New Mexico.....	13	278	279	-	2	8	15	773	-	-	-
Arizona.....	5	994	480	-	15	10	36	877	-	-	-
Utah.....	-	36	11	-	5	5	1	132	-	-	-
Nevada.....	-	21	1	-	1	2	-	-	-	-	-
PACIFIC.....	29	3,276	1,174	16	434	581	412	14,455	-	-	1
Washington.....	11	674	67	1	47	57	237	5,469	-	-	-
Oregon.....	-	410	200	-	30	20	37	1,248	-	-	-
California.....	18	1,862	849	14	353	483	93	5,824	-	-	1
Alaska.....	-	141	13	-	-	11	-	397	-	-	-
Hawaii.....	-	189	45	1	4	10	45	1,517	-	-	-
Puerto Rico.....	4	972	1,937	-	5	19	21	876	-	-	-
Virgin Islands.....	-	8	52	-	3	-	-	3	-	-	-

\*Delayed reports: Measles: Wash. 1  
Mumps: Wash. 17

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
DECEMBER 5, 1970 AND NOVEMBER 29, 1969 (48th WEEK) - CONTINUED

AREA	RUBELLA		TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970
UNITED STATES.....	567	53,681	3	125	3	145	14	335	2	338	60	2,793
NEW ENGLAND.....	51	2,738	-	4	-	1	-	11	-	-	2	108
Maine.....	32	515	-	-	-	-	-	-	-	-	1	46
New Hampshire.....	-	154	-	-	-	-	-	-	-	-	-	1
Vermont.....	3	64	-	-	-	-	-	-	-	-	1	52
Massachusetts.....	8	1,270	-	2	-	1	-	9	-	-	-	4
Rhode Island.....	2	126	-	-	-	-	-	-	-	-	-	1
Connecticut.....	6	609	-	2	-	-	-	2	-	-	-	4
MIDDLE ATLANTIC.....	16	4,180	-	14	-	2	4	63	-	14	4	249
New York City.....	8	665	-	7	-	-	3	23	-	-	-	-
New York, Up-State..	4	465	-	3	-	1	1	20	-	6	4	233
New Jersey.....	1	886	-	3	-	-	-	10	-	4	-	-
Pennsylvania.....	3	2,164	-	1	-	1	-	10	-	4	-	16
EAST NORTH CENTRAL....	85	11,073	2	25	-	21	2	46	-	10	1	221
Ohio.....	18	2,127	-	2	-	2	1	17	-	9	-	55
Indiana.....	11	2,026	-	8	-	14	-	4	-	-	1	25
Illinois.....	9	1,761	2	7	-	3	-	10	-	1	-	60
Michigan.....	15	2,903	-	8	-	-	1	13	-	-	-	26
Wisconsin.....	32	2,256	-	-	-	2	-	2	-	-	-	55
WEST NORTH CENTRAL....	6	3,423	-	5	-	31	2	11	-	4	23	594
Minnesota.....	-	124	-	1	-	1	-	1	-	-	4	117
Iowa.....	5	2,070	-	2	-	-	-	1	-	1	9	123
Missouri.....	-	442	-	1	-	27	-	3	-	3	5	111
North Dakota.....	1	155	-	-	-	1	-	2	-	-	3	49
South Dakota.....	-	1	-	1	-	1	-	-	-	-	-	85
Nebraska.....	-	580	-	-	-	-	-	2	-	-	1	7
Kansas.....	-	51	-	-	-	1	2	2	-	-	1	102
SOUTH ATLANTIC.....	62	6,780	1	30	-	16	-	46	2	226	10	559
Delaware.....	-	46	-	-	-	-	-	-	-	5	-	-
Maryland.....	3	330	-	1	-	-	-	13	1	24	-	3
Dist. of Columbia...	-	22	-	1	-	-	-	1	-	-	-	-
Virginia.....	14	757	-	2	-	6	-	8	-	59	2	211
West Virginia.....	19	1,416	-	-	-	2	-	-	-	5	3	143
North Carolina.....	1	46	-	3	-	4	-	3	-	88	-	3
South Carolina.....	6	664	-	1	-	-	-	3	-	35	-	-
Georgia.....	-	-	-	6	-	3	-	8	-	9	1	110
Florida.....	19	3,499	1	16	-	1	-	10	1	1	4	89
EAST SOUTH CENTRAL....	36	2,953	-	16	2	13	2	40	-	38	6	216
Kentucky.....	4	967	-	2	-	2	-	10	-	3	3	118
Tennessee.....	14	1,505	-	6	1	10	2	20	-	22	1	58
Alabama.....	16	383	-	6	-	-	-	8	-	10	2	37
Mississippi.....	2	98	-	2	1	1	-	2	-	3	-	3
WEST SOUTH CENTRAL....	91	9,209	-	16	1	37	-	34	-	38	9	438
Arkansas.....	-	35	-	4	-	18	-	10	-	6	-	72
Louisiana.....	1	156	-	4	-	5	-	10	-	1	-	67
Oklahoma.....	2	823	-	-	-	6	-	1	-	24	3	90
Texas.....	88	8,195	-	8	1	8	-	13	-	7	6	209
MOUNTAIN.....	17	2,112	-	-	-	14	-	17	-	6	-	84
Montana.....	1	335	-	-	-	3	-	1	-	1	-	1
Idaho.....	1	201	-	-	-	-	-	-	-	2	-	3
Wyoming.....	1	135	-	-	-	-	-	2	-	1	-	34
Colorado.....	4	427	-	-	-	-	-	4	-	2	-	16
New Mexico.....	3	232	-	-	-	-	-	6	-	-	-	14
Arizona.....	1	610	-	-	-	-	-	2	-	-	-	2
Utah.....	6	172	-	-	-	11	-	2	-	-	-	14
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	203	11,213	-	15	-	10	4	67	-	2	5	324
Washington*.....	29	4,895	-	2	-	2	-	4	-	-	-	9
Oregon.....	13	959	-	3	-	2	-	1	-	-	-	4
California.....	160	5,029	-	10	-	6	3	58	-	2	5	300
Alaska.....	-	107	-	-	-	-	1	3	-	-	-	11
Hawaii.....	1	223	-	-	-	-	-	1	-	-	-	-
Puerto Rico.....	-	27	1	15	-	-	-	5	-	-	4	-
Virgin Islands.....	-	1	-	-	-	-	-	1	-	-	-	-

\*Delayed reports: Rubella: Wash. 5

# Morbidity and Mortality Weekly Report

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TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED DECEMBER 5, 1970

Week No.  
48

(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		
<b>NEW ENGLAND:</b>	773	458	73	46	<b>SOUTH ATLANTIC:</b>	1,353	724	52	77
Boston, Mass.-----	256	144	38	16	Atlanta, Ga.-----	145	66	4	18
Bridgeport, Conn.-----	43	28	3	4	Baltimore, Md.-----	247	135	3	6
Cambridge, Mass.-----	26	15	5	—	Charlotte, N. C.-----	49	25	3	5
Fall River, Mass.-----	28	21	—	—	Jacksonville, Fla.-----	106	50	—	9
Hartford, Conn.-----	51	33	3	4	Miami, Fla.-----	127	72	1	6
Lowell, Mass.-----	30	20	2	1	Norfolk, Va.-----	70	34	8	4
Lynn, Mass.-----	25	14	—	—	Richmond, Va.-----	125	62	7	12
New Bedford, Mass.-----	36	23	1	—	Savannah, Ga.-----	40	18	6	3
New Haven, Conn.-----	66	37	—	9	St. Petersburg, Fla.-----	102	84	6	1
Providence, R. I.-----	58	33	6	2	Tampa, Fla.-----	88	55	7	3
Somerville, Mass.-----	11	8	—	1	Washington, D. C.-----	200	95	6	8
Springfield, Mass.-----	51	25	6	6	Wilmington, Del.-----	54	28	1	2
Waterbury, Conn.-----	35	24	—	2	<b>EAST SOUTH CENTRAL:</b>	765	429	36	36
Worcester, Mass.-----	57	33	9	1	Birmingham, Ala.-----	121	71	3	4
<b>MIDDLE ATLANTIC:</b>	3,344	2,032	127	104	Chattanooga, Tenn.-----	59	33	4	7
Albany, N. Y.-----	71	39	2	3	Knoxville, Tenn.-----	38	25	3	—
Allentown, Pa.-----	24	17	3	1	Louisville, Ky.-----	150	84	15	4
Buffalo, N. Y.-----	184	112	2	7	Memphis, Tenn.-----	177	95	3	8
Camden, N. J.-----	73	39	7	2	Mobile, Ala.-----	60	33	—	5
Elizabeth, N. J.-----	50	35	3	—	Montgomery, Ala.-----	53	32	6	1
Erie, Pa.-----	59	35	8	1	Nashville, Tenn.-----	107	56	2	7
Jersey City, N. J.-----	86	62	6	2	<b>WEST SOUTH CENTRAL:</b>	1,460	797	61	95
Newark, N. J.-----	91	45	3	1	Austin, Tex.-----	35	19	3	1
New York City, N. Y.†	1,476	888	49	41	Baton Rouge, La.-----	61	24	6	—
Paterson, N. J.-----	45	28	—	3	Corpus Christi, Tex.-----	47	29	4	2
Philadelphia, Pa.-----	509	295	10	24	Dallas, Tex.-----	188	93	3	9
Pittsburgh, Pa.-----	227	130	16	6	El Paso, Tex.-----	66	31	2	15
Reading, Pa.-----	54	40	3	—	Fort Worth, Tex.-----	91	47	5	6
Rochester, N. Y.-----	137	89	3	3	Houston, Tex.-----	254	123	9	18
Schenectady, N. Y.-----	30	20	2	1	Little Rock, Ark.-----	73	49	4	3
Scranton, Pa.-----	41	26	1	—	New Orleans, La.-----	174	88	6	18
Syracuse, N. Y.-----	72	48	2	7	Oklahoma City, Okla.-----	137	93	3	5
Trenton, N. J.-----	48	32	3	2	San Antonio, Tex.-----	203	119	2	10
Utica, N. Y.-----	31	21	3	—	Shreveport, La.-----	59	42	7	3
Yonkers, N. Y.-----	36	31	1	—	Tulsa, Okla.-----	72	40	7	5
<b>EAST NORTH CENTRAL:</b>	2,968	1,725	111	137	<b>MOUNTAIN:</b>	552	316	29	32
Akron, Ohio-----	79	37	2	8	Albuquerque, N. Mex.-----	70	33	13	5
Canton, Ohio-----	31	24	5	1	Colorado Springs, Colo.-----	37	23	6	4
Chicago, Ill.-----	849	446	19	40	Denver, Colo.-----	140	89	5	5
Cincinnati, Ohio-----	227	150	11	7	Ogden, Utah-----	23	17	1	1
Cleveland, Ohio-----	216	112	2	10	Phoenix, Ariz.-----	138	79	1	8
Columbus, Ohio-----	136	84	10	3	Pueblo, Colo.-----	19	12	—	—
Dayton, Ohio-----	102	62	4	5	Salt Lake City, Utah-----	57	28	—	5
Detroit, Mich.-----	379	227	11	11	Tucson, Ariz.-----	68	35	3	4
Evansville, Ind.-----	39	27	1	—	<b>PACIFIC:</b>	1,786	1,083	36	84
Flint, Mich.-----	51	36	3	2	Berkeley, Calif.-----	17	13	—	—
Fort Wayne, Ind.-----	43	27	3	2	Fresno, Calif.-----	50	23	—	6
Gary, Ind.-----	36	19	5	3	Glendale, Calif.-----	34	26	—	—
Grand Rapids, Mich.-----	57	38	12	4	Honolulu, Hawaii-----	47	28	—	3
Indianapolis, Ind.-----	190	107	4	11	Long Beach, Calif.-----	122	75	3	3
Madison, Wis.-----	31	16	3	2	Los Angeles, Calif.-----	569	322	14	44
Milwaukee, Wis.-----	153	106	1	2	Oakland, Calif.-----	94	62	2	2
Peoria, Ill.-----	43	24	—	6	Pasadena, Calif.-----	56	41	3	3
Rockford, Ill.-----	36	22	3	4	Portland, Oreg.-----	118	84	—	3
South Bend, Ind.-----	55	35	4	4	Sacramento, Calif.-----	66	40	2	3
Toledo, Ohio-----	138	78	5	10	San Diego, Calif.-----	122	68	—	6
Youngstown, Ohio-----	77	48	3	2	San Francisco, Calif.-----	201	115	6	4
<b>WEST NORTH CENTRAL:</b>	888	529	26	42	San Jose, Calif.-----	58	43	1	—
Des Moines, Iowa-----	54	36	3	2	Seattle, Wash.-----	138	85	3	3
Duluth, Minn.-----	30	15	3	—	Spokane, Wash.-----	51	31	1	4
Kansas City, Kans.-----	33	13	1	4	Tacoma, Wash.-----	43	27	1	—
Kansas City, Mo.-----	143	80	1	5	<b>Total</b>	<b>13,889</b>	<b>8,093</b>	<b>551</b>	<b>653</b>
Lincoln, Nebr.-----	22	19	—	1	Expected Number	13,136	7,600	493	561
Minneapolis, Minn.-----	113	69	5	6	Cumulative Total (includes reported corrections for previous weeks)	614,657	350,776	23,732	29,278
Omaha, Nebr.-----	96	51	—	7					
St. Louis, Mo.-----	256	146	7	11					
St. Paul, Minn.-----	84	59	1	2					
Wichita, Kans.-----	57	41	5	4					
Las Vegas, Nev.*	16	8	—	1					

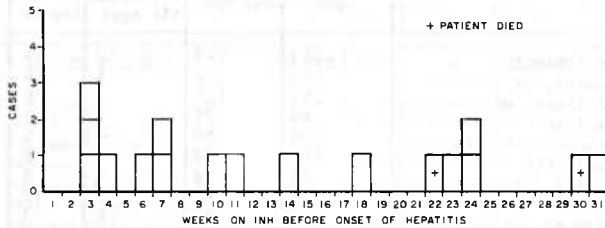
\*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.

† Delayed Report for Week Ended November 28, 1970



HEPATITIS - (Continued from page 462)

**Figure 2**  
**CASES OF HEPATITIS IN CAPITOL HILL EMPLOYEES ON**  
**INH PROPHYLAXIS BY WEEK OF ONSET**  
**FEBRUARY-NOVEMBER 1970**



In order to assess the background incidence of liver dysfunction and/or hepatitis, a matched comparison group of Capitol Hill employees who have not taken INH is being surveyed. In addition, the Food and Drug Administration is investigating the sources of distribution of the INH lots which were used on Capitol Hill.

(Reported by the Tuberculosis Branch, State and Community Services Division, the Viral Diseases Branch, Epidemiology Program, CDC; and the Division of Anti-Infective Drug Products, Food and Drug Administration.)

**Editorial Note:**

Isoniazid related jaundice has been observed occasionally in the early months of treatment. Furthermore, in one study, serum transaminase elevations were reported in approximately 10 percent in the first 3 months with subsequent return to normal values after continued medication (1). Of particular interest in the Capitol Hill investigation is the appearance of a second cluster of cases appearing late in the course of treatment. These late cases are inconsistent with previous observations (1) and suggest the possibility that they may not be related to INH but may represent hepatitis of other etiologies.

On November 20, CDC issued a report to state and local public health officials which summarized the available information concerning the Washington cases and recommended no nationwide change in the treatment and preventive treatment programs. The preliminary data of this investigation to date do not suggest the need to change the November 20 recommendations.

**Reference:**

1. Smith JP, Scharer L: Adverse effects of isoniazid and their significance for chemoprophylaxis. *Amer Rev Resp Dis* 102: 821, 1970.

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 ATTN: THE EDITOR  
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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 AT CLOSE OF BUSINESS ON FRIDAY; COMPILED DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEDING FRIDAY.

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