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LEPROSY

The Effect of a Vitamin B₁ Deficient Diet on the Incubation Period of Rat Leprosy

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We have been unable to find any reports in the literature of experimental work on the possible relationship between vitamin B_1 deficiency and rat leprosy. Muir and Henderson (1), in 1928, reported the results of studies on the virulence of rat leprosy in rats fed diets deficient in vitamin A and vitamin B. They did not separate vitamin B_1 from vitamin B_2 (G). They reported their results from two experiments in which the rats were fed diets deficient in the vitamin B complex. In one experiment the leprous material was inoculated subcutaneously into 5 rats and in the other intraperitoneally into 4 rats. In their report, the results of the experiments with diets rich in protein decomposition products were combined with the results with vitamin A and vitamin B deficient diets so that no analysis of the results with the vitamin B deficient diet alone can be made.

Lamb (2) in 1935 published a paper on the effect of malnutrition on rat leprosy. He also conducted his experiments with a diet deficient in the vitamin B complex, and not with diets deficient in vitamin B_1 and B_2 separately. He inoculated the leprous material, both subcutaneously and intravascularly, into rats fed on diets deficient in the vitamin B complex.

Relative to the intravascular injection, the author states: "It is quite evident * * * that the deficient diets allowed, in most cases, a very marked increase in the development of lesions." And relative to the subcutaneous injection, he states: "In the case of the animals on diets deficient in vitamin B complex, the usual type of lesion was a smaller, less actively growing granuloma with a tendency toward fibrosis and healing, while in the control rats the lesion was a 'normal', spreading type." Further, "Subcutaneous inoculation of rat leproma in a large number of rats on many kinds of dietary deficiencies yielded generally negative results."

With rats fed on a starchy diet plus taro-root and fish, and inoculated subcutaneously, Lamb obtained results which suggested increased susceptibility to rat leprosy. He also found that diets deficient

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in the vitamin B complex and somewhat low in protein produced an extensive increase in visceral lesions of rat leprosy in rats ineculated intravascularly.

EXPERIMENTS WITH RATS FED ON A VITAMIN B1 DEFICIENT DIET

The composition of the vitamin B_1 deficient diet was as follows:

Articles of diet	Percent
Casein (purified) ¹	18
Wesson oil ³	3
Cod-liver oil	2
Salt mixture ³	4
Autoclaved yeast ⁴	15
Corn starch	58

¹ The case in is first leached in daily changes of acidulated water according to McCollum's method (Bull. Johns Hopkins Hospital, vol. 33, p. 398) and is then baked in an electric oven at $140^{\circ}-142^{\circ}$ C. for 24 hours. About 10 pounds are then packed in a metal percolator, wet with ether, and allowed to stand overnight. The following morning the ether is allowed to drip; fresh ether is added in the afternoon, and the process repeated for 3 days, or until the percolate is clear. The case in is than removed, air dried, repacked in the percolator with 95-percent alcohol, and allowed to drip after standing overnight. This is repeated 3 times. At the end of the third day fresh alcohol is added, and allowed to drip overnight. The case in is then removed and sit dried removed and air dried.

A commercial vegetable oil, presumably cottonseed oil.
 The salt mixture is prepared according to Osborne and Mendel, J. Biol Chem., 1919, vol. 37, p. 572.
 Pure dried brewer's yeast autoclaved for 2½ hours at 15 pounds pressure.

The control diet was prepared as follows:

Articles of dist	Percent
Whole wheat flour	50.0 34.4 1.0 12.5 2.0 0.1

Method of handling the rats.—Lots of 5 to 10 rats were placed in metal cages with wire-mesh bottoms. The rats had access to food and water at all times. Our aim was to keep the rats so depleted that they failed to gain in weight, or at the most gained very slowly, but not sufficiently depleted to cause polyneuritis or death.

In the first experiments many of the rats died. In the later experiments the rats were weighed frequently, at times daily, and those rats which showed a marked loss of weight or symptoms of polyneuritis were given small doses of yeast until they gained slightly in weight. In this way we were able to keep most of the rats alive for a considerable length of time. In experiment IV we were able to keep 38 of 40 depleted rats alive for a period of 8 weeks. Depleted rats have been kept alive for 7 months, during which time they have gained but 50 percent of their original weight while the controls have gained as much as 450 percent.

Material.--The source of the strain of rat leprosy used in these experiments was from two wild rats trapped in Jacksonville, Fla.¹

Received through the courtesy of Dr. R. S. Wynn.

The firstⁱrat was received on March 3, and the second on May 7, 1934. Subcutaneous lepromata were removed from the rats, emulsified, and injected into white rats. Strains of rat leprosy were thus established.

Inoculum.—The method of preparing the inoculum in each experiment has been the same. The lepromata have been removed aseptically, slightly macerated, and placed in a saturated solution of sodium carbonate. While in the carbonate solution they have been kept at 37° C. for 2½ to 3 hours, after which the carbonate has been washed off, the material ground with sterile sand, and emulsified in normal saline. The emulsion has then been filtered through 2 or 3 thicknesses of fine-mesh gauze, and inoculated.

Method of inoculation and dosage.—In order to detect the lesions and satisfactorily follow their development in the living rat, all inoculations were made subcutaneously into the lower left abdominal segment. The material was inoculated alternately into control and test rats to assure as uniform doses as possible. In the one experiment in which large rats were used, the amount of the inoculum injected was 0.5 cc, but in the remainder of the experiments, in which small, young rats were used, 0.25 cc of the inoculum was injected.

Lesions produced.—The lesion is first noted as a minute, hard, palpable kernel at the site of inoculation. These small, hard lesions gradually increase in size but remain circumscribed for some time. They later become less circumscribed and more diffuse and have the character of spreading lesions. In some of the animals kept alive for a sufficient length of time the lepromata increase in size to such an extent that they cover the entire abdomen. After 5 months a few of the lesions have broken down, and in some the infection has become generalized, as shown by the finding of typical granulomata in the spleen and cervical lymph glands.

Pathology (By Passed Assistant Surgeon J. G. Pasternack).—The earliest lesions were confined to the subcutis. They consisted of pale, polygonal, and polyhedral cell formations which were assembled in round or elongated groups and cords or formed discrete and fused small nodular granulomata. The cells have small, round leptochromatic nuclei and an ample zone of pale meshed or vacuolated cytoplasm, hence the designation "foam cells." The surrounding connective tissue shows minor grades of fibroblast proliferation, edema, and lymphocyte infiltration.

The older lesions are very extensive, usually occupy the entire hypoderm, and involve more or less of the underlying muscle tissue.

The tissue reaction may take one of two forms. The one type shows sheets of foam cells more or less subdivided into bulky lobules entirely replacing the hypoderm. These continuous masses are entirely avascular, do not undergo necrotic changes, and show no inflammatory reaction in their vicinity. The second type consists of discrete miliary and bulky conglomerate granulomata of elongated and compressed foam cells. ⁴The conglomerate granulomata frequently show central caseous necrosis. Multinucleated giant cells in small numbers are frequently present. The granulomata are avascular, but the connective tissue of the hypoderm shows capillary vascularization, fibroblast proliferation and lymphocyte infiltration in and around the granulomata.

In all lesions the foam cells and the giant cells are always packed with acid-fast bacilli. Acid-fast bacilli are not infrequently seen within fibroblasts and histiocytes some distance from the foam-cell formations. Acid-fast bacilli were only rarely seen within nerve bundles and muscle fibers in the site of the lesion.

The lymphnodes in the vicinity of the lesion frequently showed minute concentric granulomata in variable numbers. The epithelioid cells forming these granulomata always contained smaller or larger numbers of acid-fast bacilli.

In the spleens from two of the rats some Malpighian follicles showed one to several minute concentric epithelioid granulomata the cells of which contained small to moderate numbers of acid-fast bacilli. Small lymphnodes embedded in the salivary glands of these animals showed similar miliary granulomata but they were richer in acid-fast bacilli.

Experiment I

On October 24, 1934, 24 white rats, weighing from 147 to 264 grams, were inoculated, subcutaneously, with 0.5 cc of an emulsion of a leproma from a leprous white rat. Of the 24 rats, 18 were placed on the deficient diet and 6 on the control diet. The experimental rats were placed on the diet on the day of inoculation and therefore were not depleted before being inoculated. However, 1 week after inoculation, 9 of the 18 experimental rats were depleted, and 2 weeks after inoculation all were depleted, as indicated by loss of weight or failure to gain.

Palpable lesions were first noted 8 weeks after inoculation. After 8 weeks, 1 (6.6 percent) of the 15 living, after 12 weeks 4 (28.5 percent) of the 14 living, and after 16 weeks 11 (84.6 percent) of the 13 living rats on the deficient diet had palpable lesions, while at the end of the latter period but 1 of the 6 (16.6 percent) rats on the control diet had palpable lesions.

Experiment II

On October 24, 1934, 48 white rats, weighing from 38 to 65 grams, were divided into two groups comparable as to weight. Twenty-four of the rats were placed on the deficient diet on October 24, and 12 on October 31. The 24 rats on the deficient diet and the 12 rats on the control diet were all inoculated, subcutaneously, on November 7, 1934, with 0.25 cc of a leproma from a leprous white rat. At the time of inoculation 22, or 62.8 percent, of 35 rats (1 rat died before the inoculation) on the deficient diet were depleted, as indicated by failure to gain or lose weight.

Palpable lesions were first noted 4 weeks after inoculation. After 4 weeks, 11 (40.7 percent) of the 27 living, after 6 weeks 12 (60.0 percent) of the 20 living, and after 8 weeks 12 (66.6 percent) of the 18 living rats on the deficient diet had palpable lesions, while after 8 weeks but 1 (9.0 percent) of the 11 living rats on the control diet had a palpable lesion.

ERRATUM

The last part of the last sentence in the paragraph at the top of page 859 should read: "as indicated by failure to gain or loss of weight."

male rats, weighing from 41 to 67 grams, were divided into two groups of comparable weights. On December 11, 1934, 50 were placed on the vitamin B_1 deficient diet and 50 on the control diet. On December 26, 1934, 15 days after being placed on the diet, they were all inoculated, subcutaneously, with 0.25 cc of an emulsion of a leproma of a leprous white rat. At the time of inoculation, 27 (54 percent) of those on the deficient diet were depleted. Palpable lesions in these rats were first noted 3 weeks after inoculation. After 4 weeks, 11 (23.9 percent) of the 46 living, after 6 weeks 13 (38.2 percent) of the 34 living, and after 8 weeks 14 (66.6 percent) of the 21 living rats on the deficient diet had palpable lesions, while after 8 weeks but 5 (13.5 percent) of the 37 living rats on the control diet exhibited palpable lesions.

At the end of 8 weeks the average gain in weight of the living rats on the deficient diet was 39.6 percent, while the average gain of those on the control diet was 248 percent.

Experiment IV

In this experiment 88 rats, weighing from 51 to 88 grams, were divided into two groups of comparable weights. On February 8, 1935, 45 were placed on the deficient diet and 43 on the control diet. On February 26, 1935, after 18 days on the diets, all were inoculated, subcutaneously, with 0.25 cc of an emulsion made from lepromata from two of the depleted rats in experiment II. The lepromata from which the inoculum was made were removed 3 months after they had been first noted. At the time of inoculation 41, or 91.1 percent, of those on the deficient diet were depleted.

Palpable lesions in these rats were first noted 2 weeks after inoculation. After 2 weeks, 4 (8.8 percent) of the 45 living, after 4 weeks 16 (41 percent) of the 39 living, after 6 weeks 23 (60.5 percent) of the 38 living, and after 8 weeks 33 (86.8 percent) of the 38 living rats on the deficient diet had palpable lesions. Of those on the control diet, after 4 weeks 1 (2.4 percent) of the 41 living, after 6 weeks 7 (17.9 percent) of the 39 living, and after 8 weeks 21 (56.7 percent) of the 37 living rats had palpable lesions. At the end of 8 weeks the average gain of the living rats on the deficient diet was 45.8 percent, while the average gain of those on the control diet was 113.2 percent.

It will be noted that figures and percentages are given only for the rats that were living at the stated intervals. Those which developed palpable lesions but died before the time of any one of the examinations are not included in the figures for the later examinations. This is evident in the third experiment, in which many of the rats died. The figures show that 8 weeks after inoculation 14 (66.6 percent) of the 21 living rats had palpable lesions. During the 8 weeks, 9 of the rats with palpable lesions and 20 rats without palpable lesions died and, therefore, were not included in the final summary of the experiment. TABLE 1.—Summary of experiments

			Depleted at time of inoculation	sted e of ation	(00) T	-2 wei inoc	2 weeks after inoculation		3 weeks after inoculation	s after ation		4 weeks after inoculation	after ion	9 ^H	6 weeks after inoculation	fter ion	8 E 4	8 weeks after inoculation	
Experiment	Diet	eter 10			nulusoni lo	Şaivi	With palpsble lesions			With palpable lesions		P. Bo	With palpable lesions	3aivi	Dal Jes	With palpable lesions	8aivil	W Delr lesi	With palpable lesions
		Number	Number	Percent	a tanom A	Number	Number	Percent	Number		Percent Number	Number	Percent	Number]	Number	Percent	Number	rquin _N	Регоеп
Rat II	Rat II. Vitamin Bi deficient	36 12	33	62.8	0.25	34	\mathfrak{s}		33 12 12 12		12	=-	40.7 8.3	ສະ	12	60.0 0.0	11	12	66.6 9.0
Rat III	Rat III Vitamin Bı deficient	22.22	52	54.0	88	6 8 8 8	00	 	6 49	8 1 19 19	53 54 59 50	1100	23.9	25 8		38.2 7.8	35	12	66.6 13.5
Rat IV	Rat IV Vitamin B. deficient	\$	4	91.1	ສສ	44	40	80 80	\$ 	12 30.0	30.0	10	41.0	***	8-	60.5 17.9	338	ន្លដ	86.8 56.7
Human I	Human I Vitamin Bı deficient	20	13	65.0	.25	=	0		19	4 21	21.0 19	13	88.4	61	11	3.6	19	1	88.4
Human II.	Human II Vitamin Bı deficient	19	80	42.1	.25	11	0		16	2 12.	. 5	3	18.7	18	∞	20.0	16	2	62.5

Not examined.

HUMAN LEPROSY

Since there appeared to be a shortening of the incubation period of rat leprosy in rats on the vitamin B_1 deficient diet, it was decided to repeat the experiments with human leprous tissue.

Lepromata were removed from two human cases.² Neither of the lesions was very acute. The leproma from the first patient was erythematous and somewhat fibrotic, while that from the second patient was less erythematous and more fibrotic. In these experiments the material was treated and the inoculum prepared in the same manner as that used in the experiments with rat leprosy.

Experiment I

Twenty white rats, weighing from 70 to 156 grams, were placed on the vitamin B_1 deficient diet on February 20, 1935. On March 9, after 17 days on the deficient diet, they were inoculated, subcutaneously, with 0.25 cc of an emulsion of the leproma from the first human case. Thirteen of the rats were depleted at the time of inoculation, and 18 one week later.

No rats on the control diet were inoculated, because none of comparable age and weight were available when the human material was received.

Palpable lesions in the rats on the deficient diet were first noted 3 weeks after the inoculation. After 3 weeks 4 (21.0 percent) of the 19 living, after 4 weeks 13 (68.4 percent) of the 19 living, after 6 weeks 14 (73.6 percent) of the 19 living, and after 8 weeks 17 (89.4 percent) of the 19 living rats had palpable lesions. By the end of 9 weeks all of the living rats had palpable lesions.

The lesions in these rats appeared to be identical, grossly, with those of rat leprosy.

Experiment II

Nineteen white rats, weighing from 87 to 151 grams, were placed on the vitamin B_1 deficient diet on February 27, 1935. On March 9, after 10 days on the deficient diet, they were inoculated, subcutaneously, with 0.25 cc of an emulsion made from a leproma of the second human case. Eight of the rats were depleted at the time of inoculation. No rats on the control diet were inoculated, for the reasons given in experiment I.

Palpable lesions in the rats on the deficient diet were first noted 3 weeks after inoculation. After 3 weeks 2 (12.5 percent) of the 16 living, after 4 weeks 3 (18.7 percent) of the 16 living, after 6 weeks 8 (50.0 percent) of the 16 living, after 8 weeks 10 (62.5 percent) of the 16 living, and after 10 weeks 12 (75.0 percent of the 16 living rats

⁹ Obtained through the courtesy of Surg. O. E. Denny, Medical Officer in Charge, U. S. Marine Hospital (National Leprosarium), Carville, La.

had palpable lesions. The lesions in the rats in this experiment appeared to be identical, grossly, with those of the previous experiment and with those of rat leprosy.

In both experiments with the human material the lesions have continued to increase in size up to the present time (11 weeks after inoculation).

We feel that no definite conclusions can be drawn from these experiments with human material. Before we can state that a vitamin B_1 deficient diet makes rats more susceptible to human leprosy, and that a strain of human leprosy has been established in the rat, it will be necessary to carry the human leprosy through several generations of rats.

SUMMARY

Four experiments have been conducted in which white rats on a vitamin B₁ deficient diet and rats on a control diet have been inoculated, subcutaneously, with rat leprosy.

The incubation period of rat leprosy in the rats on the vitamin B_1 deficient diet was appreciably shorter than in the rats on the control diet.

In two experiments, white rats on a vitamin B_1 deficient diet were inoculated, subcutaneously, with human leprous material. Local lesions were produced which have continued to increase in size.

REFERENCES

- (1) Muir, E., and Henderson, J. N.: Indian Jour. Med. Res., Vol. 15 (1928), p. 807.
- (2) Lamb, Alvin R.: Am. Jour. Hyg., Vol. 21 (1935), p. 438.

RATIFICATION OF THE INTERNATIONAL SANITARY CONVENTION FOR AERIAL NAVIGATION

On June 5, 1935, the United States Senate ratified, with two reservations, the International Sanitary Convention for Aerial Navigation, which was opened for signature at The Hague on April 12, 1933, and signed on behalf of the United States on April 6, 1934. Following is the Senate resolution of ratification, with the reservations:

Resolved (two-thirds of the Senators present concurring therein), That the Senate advise and consent to the ratification of Executive G, Seventy-fourth Congress, first session, the International Sanitary Convention for Aerial Navigation, which was opened for signature at The Hague on April 12, 1933, and was signed on behalf of the United States on April 6, 1934, subject to the following two reservations:

(1) With reference to article 61 no amendments to the convention will be binding on the Government of the United States of America or territory subject to its jurisdiction unless such amendments be accepted by the Government of the United States of America:

(2) The Government of the United States of America reserves the right to decide whether from the standpoint of the measures to be applied a foreign district is to be considered as infected, and to decide what requirements shall be applied under special circumstances to aircraft and personnel arriving at an aerodrome in the United States of America or territory subject to its jurisdiction.

The ratification will have to be deposited with the Government of the Netherlands before the convention is proclaimed by the President. The convention provides that as soon as 10 ratifications have been deposited, the Government of the Netherlands will draw up a procesverbal and transmit copies to the Governments of the high contracting parties and to the Office International d'Hygiene publique, and the convention shall come into force on the one hundredth and twentieth day after the date of the proces-verbal. Ten ratifications have already been deposited with the Netherlands Government, and the convention will come into effect on August 1, 1935.

DEATHS DURING WEEK ENDED JUNE 8, 1935

[From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce]

	Week ended June 8, 1935	Correspond- ing week, 1934
Data from 86 large cities of the United States: Total deaths. Deaths per 1,000 population, annual basis. Deaths under 1 year of age Deaths per 1,000 population, annual basis, first 23 weeks of year. Deaths per 1,000 population, annual basis, first 23 weeks of year. Deaths per 1,000 population, annual basis, first 23 weeks of year. Deaths per 1,000 population, annual basis, first 23 weeks of year. Deaths in industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 23 weeks of year, annual rate.	8, 155 11. 4 571 52 12. 4 67, 830, 119 13, 156 10. 1 10. 5	8, 182 11. 4 634 59 12. 3 67, 799, 549 13, 185 10. 1 10. 8

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended June 15, 1935, and June 16, 1934

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended June 15, 1935, and June 16, 1934

	Diph	theria	Influ	10128	Me	asles		ococcus ngitis
Division and State	Week ended June 15, 1935	Week ended June 16, 1934	Week ended June 15, 1935	Week ended June 16, 1934	Week ended June 15, 1935	Week ended June 16, 1934	Week ended June 15, 1935	Week ended June 16, 1934
New England States:								
Maine	1			1	260	11	0	0 0 2 0
New Hampshire	1					37 30	0	N N
Vermont.	12	6			16 334	885	1	
Massachusetts Rhode Island	12	3			472	000	ō	1
Connecticut	2	3	1		667	210	ŏ	2
Middle Atlantic States:	-	•	1		007	210	v	-
New York	34	32		19	2,904	970	15	5
New Jersey	14	13	2	6	2,007	682	5	ŏ
Pennsylvania	26	36	_		1.586	1,958	4	2
Pennsylvania East North Central States:					-,	-,		
Ohio	24	20	53	17	1.927	1, 386	6	4
Indiana	20	11	5	10	129	420	1	1
Illinois	61	40	34	20	1,068	1,827	10	7
Michigan	8	9			2,356	403	2	1
Wisconsin	3	4	25	11	1,651	1, 762	0	0
West North Central States:								
Minnesota	2	5	2	1	190	117	4	1
Iowa ³	16	12	δ		121	190	- 4	8 9 0
Missouri	13	14	54	10	195	159	6	2
North Dakota	2				34	53	3	0
South Dakota	2	3			17	98	Õ	Ŏ
Nebraska		5			89	59	2	02
Kansas	13	10	17	1	321	287		2
Bouth Atlantic States:						-	1	0
Delaware	3	2	2		9 98	50 668	9	U 1
Maryland ^{3 3} . District of Columbia	52	10	2	2 1	30	27	ŏ	Í 0
Virginia	4	8 6		- 1	183	776	10	ĭ
Virginia ³	13	8	26	12	213	115	4	Ĩ
West Virginia North Carolina	13	12	20	13	56	595	5	ĭ
South Carolina	1	3	56	77	18	127	ŏ	1 0 0
Georgia 4	2	4	~			61	ŏ	ŏ
Florida	6	ā	i		9	104	ŏ	ŏ
East South Central States:			^				1	•
Kentucky	2	3	3		179	364	1	0
Tennessee	õ	8	5	5	21	153	2	Ó
Alabama 4	7	8	30	5	68	333	0 (Ó
Mississippi 3	5	ĕ		-			Ó	1

See footnotes at end of table.

June 28, 1935

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Jof weeks ended Ju	ine 10,	1950, (unu J u	<i>me</i> 10,	1934—	-Collwin	1000	
	Dipl	htheria	Infl	uenza	М	asles		gococcus ingitis
Division and State	Week ended June 15, 1935	Week ended June 16, 1934	Week ended June 15, 1935	Week ended June 16, 1934	Week ended June 15, 1935	Week ended June 16, 1934	Week ended June 15, 1935	Week ended June 16, 1934
West South Central States: Arkansas	5	2	47	6	35	5	0	0
Louisiana 4. : Oklahoma 4.	. š	12	15	7	90	124	0	1
Oklahoma 4 Texas 4	20	2 46	10 31	21 58	36	59 752	04	20
Mountain States:							- T	-
Montain States. Montain 3 Idaho 3 Wyoming 3 Colorado Nor Mariae		7	21	1	202	37	1	0
Wyoming 3			1		19	76	8	Ĭŏ
Colorado	4	9			238	470	Ŏ 1	0
New Mexico Arizona		<u>i</u>	1			81 10		Ö
Utah ³		i		4	3	17	l ö	0
Pacific States:		Ι.				1		
Washington Oregon ³	4			13	365 144	202		8
California ²	30	31	30	30	1, 097	942	3	ľ
Total	391	430	479	344	19, 498	17, 751	108	41
First 24 weeks of years	14, 715	16, 493	101, 610	46, 047	641, 383	621, 909	3, 411	1, 301
	Balian	velitis			9	1	(Doorbo)	
				t fever		llpox	турно	d fever
Division and State	Week	Week	Week	Week	Week	Week	Week	Week
	ended	ended	ended	ended	ended	ended	ended	ended
A	June 15, 1935	June 16, 1934	June 15, 1935	June 16, 1934	June 15, 1935	June 16, 1934	June 15, 1935	June 16, 1934
	10, 1000	10, 1001	10, 1000	10, 1001	10, 1000	10, 1801	10, 1000	10, 1001
New England States								
New England States: Maine	0	0	21	17	0	0	1	2
New Hampshire	0	0	2	2	0	0	0	2 0 0
Vermont Massachusetts	0 1	0 1	2 188	11 166	0	0	9	0 0
Rhode Island	Ō	ō	5	100	ŏ	ŏ	1	2 1
Connecticut	0	0	77	41	0	Ó	2	ī
Middle Atlantic States: New York	1	8	748	496	0	0	7	13
New Jersey	1	2	162	114	ŏ	ŏ	4	4
Pennsylvania East North Central States:	0	3	373	338	0	0	10	7
Ohio	1	9	446	396	4	1	9	16
Indiana	1	1	77	47	0	1	3	0
Illinois Michigan	2	1	950 216	351 287	2 0	1	4	15 10
Wisconsin West North Central States:	ĭ	ĭ	365	223	3	11	ō	Ő
West North Central States: Minnesota	2	o	220	50	7			
Iowa ²	ő	1	220 54	52 59	8	2	11 3	1
Missouri	0	1]	28	28	2	8	7	10
North Dakota	0	0	34 5	4	17	0	0	0
Nebraska	ŏ	î	ğ	9	15	4	ŏ	0 0
Kansas	0	0	45	30	29	7	7	. 8
Bouth Atlantic States: Delaware	0	0	4	3	0	0	0	1
Maryland 3 3	ŏ	ŏ	53	26	ŏ	0	8	1 4
District of Columbia Virginia ³	0	0	26	5 20	0	0	0	1
West Virginia	3 0	ő	20 37	44	ŏ	<u>ě</u>	7	12 16
		2	21	18	0	Ŏ	16	4
North Carolina	57					~ 1	90 1	
North Carolina	0	õ	1	1	N I	× I	32	20
North Carolina South Carolina Georgia 4 Florida	57 0 0 0	0 2 0 2 0 1 0	1 5 1	1 1 3	Ō O O	000000000000000000000000000000000000000	40	20
North Carolina South Carolina Georgia 4 Florida East South Central States:	0 0 0	0	5 1	1 3	0	0	40 15	20 1
North Carolina South Carolina Georgia 4 Florida. Last South Central States: Kentucky.	000000000000000000000000000000000000000	0	5 1 13	1 3 14	0	0	40 15 9	20 1 20
North Carolina South Carolina Georgia 4 Florida East South Central States:	0 0 0	0	5 1	1 3	0	0	40 15	20 1

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended June 15, 1935, and June 16, 1934—Continued

See footnotes at end of table.

•	Polion	nyelitis	Scarle	t fever	Sma	llpox	Typho	id fever
Division and State	Week ended June 15, 1935	Week ended June 16, 1934						
West South Central States: Arkansas	0	0	3	1	0	0	8	
Louisiana 4		ŏ	5	1	ŏ	1	16	22
Oklahoma 4		Ŏ	4	5	i	3	16 3	22 6 50
Texas 4	0	1	28	43	9	25	19	50
Mountain States:					_			
Montana 3		1 2	89		70	2 2	0	0
Idaho ¹ W yoming ¹	1 0	Ő	10	· · 2	7	10	ŏ	Ĭ
Colorado	Ň	ŏ	126	21	2	10 3	ŏ	i
New Mexico		ŏ	6	4	ō	3	ŏ	3
Arizona	0	3	25	3	Ó	Ó	6	2
Utah ³	0	0	75	4	0	1	0	0
Pacific States:					_			
Washington Oregon ³	0	2	36 15	42 29	29 2	3 2	2	2
California	20	273	155	142	10	7	10	7
				110				
Total	101	320	4, 733	3, 134	146	99	321	326
First 24 weeks of year	719	1, 385	165, 315	135, 680	4, 529	3, 407	3, 713	4, 294

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended June 15, 1935, and June 16, 1934-Continued

New York City only.
 Rocky Mountain spotted fever, week ended June 15, 1935, 25 cases, as follows: Iowa, 1; Maryland, 3; Virginia, 2; Montana, 5; Idaho, 4; Wyoming, 7; Oregon, 1; California, 2.
 Week ended earlier than Saturday.
 Typhus fever, week ended June 15, 1935, 15 cases, as follows: Georgia, 7; Alabama, 6; Louisiana, 1; Texas. 1. Exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week.

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Malaria	Measles	Pel- lagra	Polio- my o - litis	Scarlet fever	Small- pox	Ty- phoid fever
March 1935 Colorado April 1935		31			4, 049		1	1, 343	28	3
Colorado May 1935	7	23			3, 165		0	1, 112	14	2
California	43 1 4 12 10 12 10 66 1	143 16 26 40 9 39 100 53 130 46	182 11 138 105 7 42 23 164 413	10 20 212 2 2 540	8, 692 160 74 1, 688 647 1, 751 9, 497 722 7, 809 83	15 24 53 4 89 	22 3 3 3 0 3 3 44 1 2	1, 298 14 26 355 36 981 764 61 2, 588 17	77 0 21 0 0 1 0 2	41 22 53 6 4 16 10 18 21 33

June 28, 1985

1 March 1935 Cases Colorado: Chicken pox 434 Impetigo contagiosa.... 1 197 Mumps..... Rocky Mountain spot-ted fever Septic sore throat 2 3 Vincent's infection..... 16 112 Whooping cough April 1935 Colorado: Chicken pox_____ Impetigo contagiosa____ 371 212 Mumps_ 5 6 118 Whooping cough May 1935 Actinomycosis: 1 California..... Anthrax: 1 New Jersey..... Chicken pox: California...... 4, 924 California..... Florida 109 132 Georgia..... Iowa 341 Maine 174 Massachusetts 1,129 New Jersey 1,760 North Carolina 413 Ohio 1,771 Bouth Carolina 1,771 Conjunctivitis: 75 Georgia 5 5 Georgia..... Dengue: Florida 5 Georgia...... South Carolina...... Diarrhea and enteritis: Ohio (under 2 years).... South Carolina...... 1 ž 6 695 Dysentery: Sentery: California (amoebic)... California (bacillary)... Florida (amoebic)..... Georgia (bacillary).... Massachusetts (amoe-bio) 17 12 1 2 79 bic) Massachusetts (bacil-1 lary)_____ New Jersey (bacillary)_ Epidemic encephalitis: 1 ī 5 1 $\overline{2}$ Maine.....

May 1955-Continued

May 1850-Continued	
Epidemic encephalitis— Continued.	
Continued.	Cases
Massachusetts	1
New Jersey	2
Ohio South Carolina	5
South Carolina	1
Food poisoning: California	
California	28
Ohio	38
German measles:	4 010
California	
Iowa	
Maine Massachusetts	0.798
New Jersey North Carolina	139
Ohio	3, 738
Granuloma, coccidioidal:	0,100
California	3
Hookworm disease:	•
Georgia	459
South Carolina	76
Jaundice, epidemic:	
California	1
Lead poisoning:	
Lead poisoning: Massachusetts	1
Ohio	9
Leprosy:	
California	2
Mumps:	
California	1,800
Florida	218
Georgia	145
Iowa	1,050
Maine	52
Massachusetts	674
New Jersey	1,012
New Jersey Ohio South Carolina	1, 842 268
South Carolina	208
Ophthalmia neonatorum:	•
California	
Massachusetts	120
New Jersey North Carolina	2
	4
Ohio South Carolina	ő
Paratyphoid fever:	0
California	3
New Jersey	1
North Carolina	2
Ohio	ĩ
Ohio South Carolina	5
Puerperal septicemia:	v
Ohio.	6
Ohio Rabies in animals:	v
California	120
Maine	2
Massachusetts	23
New Jersey South Carolina	9
South Carolina	58

May 1935—Continued	l
Rabies in man:	Cases
Rabies in man: New Jersey Rocky Mountain spotted	1
lever:	1
California. North Carolina	Ĩ
Screw worm infection:	1
Screw worm infection: Georgia Septic sore throat:	-
California	14 13
Massachusetts	18
North Carolina	18
Ohio Tetanus:	257
California	5
Georgia Maine	4
Massachusetts	1
New Jersey	2
Ohio Trachoma:	1
California	17
Massachusetts	1
Ohio Trichinosis:	1
California	
Maine Tularaemia:	2
Georgia	4
Ohio South Carolina	1
Typhus fever:	
Florida	1
Georgia North Carolina	19
Undulant fever:	
California	19 1
Florida Georgia	
Towa	13
Massachusetts New Jersey	3
North Carolina	3
Ohio Vincent's infection:	- 3
Maine	1
Whooping cough: California	
Florida	1, 125
Georgia	153
Iowa Maine	60 98
Massachusetts	504
New Jersey North Carolina	1, 571
North Carolina	1,422
Ohio South Carolina	193

868

CASES OF VENEREAL DISEASES REPORTED FOR APRIL 1935

This statement is published monthly for the information of health officers in order to furnish current data as to the prevalence of the venereal diseases. The figures are taken from reports received from State health officers. They are preliminary and are, therefore, subject to correction. It is hoped that the publication of these reports will stimulate more complete reporting of these diseases.

	Syp	ohilis	Gond	orrhea
State	Cases re- ported dur- ing month	Monthly case rates per 10,000 population	Cases re- ported dur- ing month	Monthly case rates per 10,000 population
Alabama	476	1.76	94	. 35
Arizona	105	2.34	129	2. 85
Arkansas 1	423	2.26	146	. 78
California	1, 384	2.28	1, 346	2. 22
Colorado ³ Connecticut. Delaware. District of Columbia. Florida.	206 150 159 199	1. 25 6. 22 3. 21 1. 28	72 29 132 77	. 44 1. 20 2. 67 . 50
Georgia	1, 155	3.97	358	1.23
Idaho	0	0	0	0
Illinois	1, 471	1.88	1, 161	1.48
Indiana	269	.82	258	.78
Iowa ¹	116	.47	148	.60
Kansas	90	.47	51	.27
Kentucky	219	.83	295	1.11
Louisiana	272	1.26	127	.59
Maine	36	.45	48	.60
Maryland	827	4.97	171	1.03
Massachusetts	498	1. 15	508	1. 18
Michigan	537	1. 06	467	. 93
Minnesota	369	1. 42	303	1. 17
Mississispi	1,097	5. 36	1, 716	8. 38
Missouri	251	. 68	88	. 24
Montana ¹ Nebraska Newada ³ New Hampshire New Jarsey	59 40 	1. 10 . 29 	46 69 7 302	. 86 . 50 . 15 . 72
New Mexico ¹	55	1.26	25	.58
New York	6, 117	4.72	1, 467	1.13
North Carolina	1, 413	4.31	364	1.11
North Dakota	13	.19	46	.67
Ohio	712	1.05	186	.27
Oklahoma 1	191	.92	173	. 83
Oregon	84	.85	90	. 92
Pennsylvania	301	.31	215	. 22
Rhode island	76	1.08	46	. 66
South Carolina ¹	336	1.92	448	2.56
	9	.13	19	.27
	859	3.22	434	1.63
	491	.82	130	.22
Vermont. Virginia ¹ Washington West Virginia ³ Wisconsin ⁴	12 342 191 	.33 1.40 1.19 .12	35 257 189 	.97 1.05 1.18 .40
Wyoming ¹ Total	22, 343	1.84	12, 391	1. 02

¹ Incomplete.

Not reporting.
Has been reporting regularly but no report received for current month.
Only cases of syphilis in the infectious stage are reported.

Norg.—Surveys in which all medical sources have been contacted in representative communities through-out the United States have revealed that the monthly rate per 10,000 population is 6.6 for syphilis and 10.2 for gonorrhea.

870

WEEKLY REPORTS FROM CITIES

City reports for week ended June 8, 1935

This table summarizes the reports received regularly from a selected list of 121 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference.

	Diph-	Inf	luenza	Mea-	Pneu-	Scar-	Small-	Tuber-	Ty- phoid	Whooping	Deaths,
State and city	theria cases	Cases	Deaths	sles cases	monia deaths	fever cases	pox cases	culosis deaths	fever cases	cough cases	all causes
Maine: Portland New Hampshire:	0		0	0	2	2	0	0	1	8	23
Concord Nashua Vermont:	0		0	0	0	2 0	0	0	0	0	14
Barre Burlington Massachusetts:	0		0	3	0	0	0	0	0	0	5
Boston Fall River Springfield	2 1 0		0000	77 5 70	29 3 2	49 6 12	0 0 0	5 2 1	0 0 0	28 4	209 27 32
Worcester Rhode Island:	Ō		Ŏ	9	3	13	0	0	1	5 1	32
Pawtucket Providence Connecticut:	0 1		0	5 494	04	1 6	0	0 2	0 0	0 19	16 69
Bridgeport Hartford	1		0	11 	1	9	0	2	0	0	30
New Haven New York:	0		0	91	1	1	0	1	0	3	39
Buffalo New York Rochester Syracuse	0 29 0 0	6	0 5 0 0	31 1, 698 33 290	15 145 10 4	63 419 10 23	0 0 0 0	8 86 0 1	0 5 1 0	12 182 21 14	127 1, 465 63 44
New Jersey: Camden Newark Trenton	2 0 0	2	1 0 0	0 362 1	2 3 4	4 14 10	0 0 0	2 4 3	0 0 0	9 66 1	32 72 45
Pennsylvania: Philadelphia Pittsburgh Reading Scranton	7 3 0 0	42	3 2 0	103 153 158 15	35 24 2	86 39 2 7	0 0 0	23 8 1	1 1 0 0	77 23 0 2	537 164 10
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	2 3 0 0	<u>11</u> <u>1</u>	0 2 0 1	9 474 67 89	8 16 4 8	13 65 16 15	0 0 0 0	9 17 6 5	0 0 0 0	6 36 1 9	145 183 88 77
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	5 2 0 0		0 0 0 0	1 77 0 1	1 11 0 0	3 11 2 0	0 0 0 0	0 2 0 1	0 0 0 0	0 16 0 0	27 94
Chicago Springfield	25 0		2 0	741 7	54 2	538 6	0 1	34 1	1 0	97 4	690 22
Michigan: Detroit Flint Grand Rapids. Wisconsin:	3 0 0		0 0 0	583 1 136	30 4 1	68 0 16	0 0 0	20 1 0	0 0 0	114 6 17	284 32 28
Kenosha Milwaukee Racine Superior	0 0 0 0		0 0 0 0	8 632 167 26	2 5 1 0	7 76 33 0	0 0 0 0	0 4 0 0	0 0 0	5 23 11 1	10 99 11 12
Minnesota: Duluth Minneapolis St. Paul Iowa:	0 3 0		0 0 0	16 24 7	3 8 10	1 80 37	0 1 0	0 1 2	0 2 3	1 9 4	29 98 56
Davenport Des Moines Sioux City Waterloo	0 1 1 0		0	1 122 1 0	0	2 6 2 4	0 1 0 0	0	0 0 0	0 0 4 1	39
Missouri: Kansas City St. Joseph St. Louis	1 1 15		0 0 0	14 1 12	15 0 6	10 4 20	0 0 0	3 0 6	0 0 0	2 0 8	107 4 178

City reports for	week ended June 8,	1935—Continued

	Diph-	- T	luenza	Mea-	Pneu-	Scar-	Small-	Tuber-	Ty-	Whoop-	Doaving
State and city	theria cases	Cases	Deaths	sles cases	monia deaths	fever cases	pox cases	culosis deahts	fever cases	cases	all causes
North Dakota: Fargo Grand Forks	0		0	0	0	9	0	0	0	0	10
South Dakota: Aberdeen	0		0	0		0	0		0	3	
Nebraska: Omaha Kansas:	4		0	38	6	4	2	3	0	0	57
Topeka Wichita	ō		0	8	4	0	0	1	<u>0</u>	0	
Delaware: Wilmington	2		0	6	3	5	0	1	1	2	21
Maryland: Baltimore	4		0	39	19	33	0	10	Ó	8	199
Cumberland Frederick	0		0	1	0	1	0	0	0	0	73
District of Col.: Washington	7		0	34	14	23	0	13	1	4	172
Virginia: Lynchburg	0		0	Q	3	0	Q	o	0	32	12
Norfolk Richmond	0		0	3 18	2 2	1	0	4	1 0	02	· 32 44
Roanoke West Virginia:	Ő		1	6	1	1	0	0	0	1	17
West Virginia: Charleston Huntington	0		0	11 3	1	1 2	0	0	0	2 0	8
Wheeling North Carolina:	ŏ		0	38	ī	õ	ŏ	C	ŏ	ĭ	19
Raleigh	0		0	0	0	0	0	0	ç	0	10 9
Wilmington Winston-Salem	0 1		0 0	0	1	ŏ	ŏ	2	2 0	11	15
South Carolina: Charleston	0		0	0	4	0	0	0	0	0	21
Columbia Greenville	0		0	0	1	0	0	0	0	0	8
Georgia: Atlanta	2	3	1	1	3	3	0	8	3	12	81
Brunswick	0		0	Ō	02	ŏ	Ó	0 5	Ō	Ő	4 30
Savannah Florida:	0		0	0			0		0		
Miami Tampa	1 0		0 0	3 6	1 2	3 0	0 0	4	0 12	2 3	22 26
Kentucky: Ashland	0			3	1	0	0		0	0	
Lexington	ŏ		0	10	2	ĭ	ŏ	2	ŏ	ž	17
Tennessee: Memphis	1		0	1	3	4	0	10	0	1	103
Nashville Alabama:	0		0	0	2	2	0	2	0	1	53
Birmingham Mobile	0	1	0	16 2	22	2 1	0	1	5	6	53 18
Montgomery	ĭ			ō		Õ	Ŏ		Ŏ	3	
Arkansas: Fort Smith	0			o		0	0		0	8	
Little Rock Louisiana:											
New Orleans	5	1	0	13	9 3	4	0	20	1	1	151 24
Shreveport Oklahoma:	0		0	0			0	1	. 1		
Oklahoma City Texas:	0	5	1	7	2	1	0	2	0	0	41
Dalias Fort Worth	3 0		0	1	0	2 0	0	3	0	0	50 24
Galveston Houston	03		0	02	17	1 5	0	23	02	03	17 89
San Antonio	3		ŏ	ĩ	7	4	Ó	5	õ	ŏ	57
Montana:		[10	2	1	0	0	0	0	10
Billings Great Falls	0		0	19 3	3	0	0	Ó	Ő	3	8
Helena Missoula	0		0	6	1	0	00	0	0	12 0	6
Idaho: Boise	0		0	1	0	0	0	0	0	0	6
Colorado: Denvor	3		0	134	4		0	3	o	1	79
Pueblo	ő		ŏ	154	31	62 5	ŏI	ő	ŏI	2	8
137620°35	2										

State and site	Diph-	Infl	uenza	Mea-	Pneu-	Scar- let	Small-		Ty- phoid	Whoop-	Deaths,
State and city	theria cases	Cases	Deaths	sles cases	monia deaths	fever cases	pox cases	culosis deaths		cough	causes
New Mexico: Albuquerque	0		0	4	2	1	0	. 2	0	4	11
Utah: Salt Lake City_	1		2	3	4	110	0	3	0	0	34
Nevada: Reno	0		0	2	0	1	0	0	0	0	6
Washington: Seattle Spokane Tacoma	0 0 0		1 0 0	242 35 2	2 2 0	11 4 0	2 0 5	4	1 0 0	0 5 0	83 29 20
Oregon: Portland Salem	0		1	26 1	3	11 1	0	4	0	1	80
California: Los Angeles Sacramento San Francisco	10 0 1	14 	0 0 0	87 121 157	13 5 3	30 17 20	8 0 0	20 2 11	1 0 0	11 3 58	353 31 152
State and city];	Mening meni	ococcus ngitis	Polio mye-		State	and city	,		gococcus ngitis	Polio- mye-
	ſ	Cases	Deaths	litis cases					Cases	Deaths	litis Cases
Massachusetts: Worcester		0	1		0	braska: Omahs			1	0	0
Rhode Island: Providence		2	2		0 Ma	ryland: Baltim	ore		10	1	0
New York:		24	7		Dis 2	trict of	Columb	ia:	10	2	0
New York Pennsylvania:					Vir	ginia:	0				-
Philadelphia Ohio:		3	0		0 No	Norfoll th Car	k olina:		4	2	0
Cincinnati Cleveland		1 2	1 0		0	Winsto rida	on-Salen	L	0	1	0
Columbus		1	1		0	Miami			1	0	0
Toledo Indiana:	1	2	2				his		0	2	0
Indianapolis Illinois:		1	0		0 Ala	bama: Birmin	gham		2	0	0
Chicago		14	3	1	0 Lou	isiana:	rleans		1	0	2
Michigan: Detroit		1	0	1	0 Oki	ahoma:		1	-	-	
Minnesota: Minneapolis		1	2		0 Ore	avu.	ma City		1	0	0
Iowa: Sioux City		1	0			Portlan ifornia:	nd		4	1	0
Missouri:		3	-			Los An	geles		1	2	7
Kansas City St. Joseph St. Louis		3 1 3	3 0 1				ento ancisco.		1 0	1	1 0

City reports for week ended June 8, 1935-Continued

Dengue: Miami, 1 case. Epidemic encephalitis.—Cases: New York,1; Philadelphia, 1; Pittsburgh, 2; Detroit, 1; Fargo, 1; Atlanta, 1; New Orleans, 1. Pellogra.—Cases: Boston, 1; Charleston, S. C., 2; Savannah, 4; New Orleans, 1; Los Angeles, 3; San Francisco, 1. Rabies in man: Atlanta 1 death. Typhus fever.—Cases: Charleston, S. C., 1; Savannah, 1; Tampa, 1; Montgomery, 1; Fort Worth, 1.

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—2 weeks ended June 1, 1935.— During the 2 weeks ended June 1, 1935, cases of certain communicable diseases were reported by the Department of Pensions and National Health of Canada as follows:

Disease	Prince Ed- ward Island	Nova Scotia	New Bruns- wick	Quebec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	Brit- ish Colum- bia	Total
Cerebrospinal menin- gitis	 6	8 4 	22 2 	2 289 23 4 6 	$1 \\ 568 \\ 10 \\ 1 \\ 6 \\ 222 \\ 4,828 \\ 412 \\ 1 \\ 24 \\ 1 \\ 214 \\ 1 \\ 115 \\ 6 \\ 6 \\ 353 \\ 353 \\ $	45 3 178 175 264 27 27 66	41 5 68 23 4 1 51 2 2 7 91	50 145 38 19 7 2 6	159 1 700 182 20 12 63 32 1 91	3 1, 162 45 5 17 276 6, 937 774 2 39 2 2 585 2 387 52 2 387 52 2 387 52 2 387 52 2 387

CUBA

Provinces—Notifiable diseases—4 weeks ended June 1, 1935.— During the 4 weeks ended June 1, 1935, cases of certain notifiable diseases were reported in the Provinces of Cuba, as follows:

Disease	Pinar del Rio	Ha- bana	Matan- zas	Santa Clara	Cama- guey	Oriente	Total
Cancer Chicken pox	2	3	1	2 1	2		92
Diphtheria Hookworm disease Leprosy	1		2	4 11 1		 9	6 12 11
Målaria Measles Poliomyelitis		5 5	12 12	162 27 4	70 2	171 1	516 75 5
Scarlet fever Tuberculosis Typhoid fever	5	6 10	24 8	1 38 40	20 44	43 15	1 136 117

ITALY

Communicable diseases—4 weeks ended April 28, 1935.—During the 4 weeks ended April 28, 1935, cases of certain communicable diseases were reported in Italy, as follows:

	Apr	. 1-7	Apr.	8-14	Apr.	15-21	Apr.	22-28
Disease	Cases	Com- munes affect- ed	Cases	Com- munes affect- ed	Cases	Com- munes affect- ed	Cases	Com- munes affect- ed
Anthrax Cerebrospinal meningitis Chicken pox Diphtheria and croup. Dysentery. Hookworm disease. Lethargic encephalitis Measles. Paratyphoid fever. Poliomyelitis. Puerperal fever Typhoid fever. Typhoid fever. Undulant fever. Whooping cough.		14 14 137 296 4 6 5 376 24 6 36 36 24 6 36 121 103 62 92	11 21 442 558 3 24 4 2, 357 26 9 47 334 47 334 178 83 293	11 18 125 281 3 8 4 381 21 9 42 113 111 56 95	4 21 4755 5885 1 1 1 3,448 25 10 377 4155 148 64 289	4 19 132 261 1 7 1 413 20 9 34 122 92 92 43 93	9 19 375 411 2 12 3 3 2,412 26 3 35 348 142 57 281	8 18 136 245 1 5 3 391 21 3 32 121 93 38 90

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following table must not be considered as complete or final as regards either the list of countries included or the figures for the particular counsuries for Windle reports are given.

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2
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v

[C indicates cases; D, deaths; P, present]

Week ended-	Oct. Nov. Dec. Jan. March 1935 April 1935 May 1935 28- 25- 30,1934- 27- March 1935 May 1935 20 1004 94 70- March 1935 May 1935	0001 07 1001 07		
	Flace		Ceylon: Colombo	India Assam

¹ Imported.

FEVER-Continued
D YELLOW
AND
FEVER,
TYPHUS
SMALLPOX,
PLAGUE,
CHOLERA,

CHOLERA-Continued

[C indicates cases; D, deaths; P, present]

			f							Wei	Week ended	Ţ					
Place	26 1934	25 Dec.	Dec. 30, 1934- Jan. 28, 1935	Jan. 27- Feb.		M	March 1935	5			A pril 1935	1935			May 1935	1935	
					3	8	16	ន	30	v	13	ิล	27	*	Ħ	18	ส
India (French): Chandernagor Karikal	8	п	55	38	24	00	6	69	16	14	34	101	-				
Pondtchery.		89	80 2	12				4	61	69		-	0				
		3		1	13				-								
l Cal-			-		N												
n Cal-			1.1	1 8													
S. S. Incomati at Colombo				1													
 D. P. Tasia at Atalgoon from Moul- B. Karandalia at Rangoon S. Juna st Moulmein from Mergui. C S. S. Vara st Moulmein from Mergui. C S. Zviros at Rangoon 						1											
S. S. <i>Langue</i> at Manuas 1001 And C. D. S. S. Bilenge at Rangoon O. D. S. S. Ellenge at Rangoon																	

¹ Suspected.

Ĩ	Ja	January 1935	35	Feb	February 1935	8	ž	March 1935	5	•	April 1935		May 1935
r Jace	1-10	1-10 11-20 21-31	21-31	1-10 11-20 21-28 1-10 11-20 21-31	11-20	21-28	1-10	11-20	21-31		1-10 11-20 21-30	21-30	1-10
Indo-China (French) (see also table above): Cambodia 1		11	23		F6 333		0030	11				8811	23,25

³ Reports incomplete.

FEVER-Continued
YELLOW
AND
FEVER
TYPHUS
SMALLPOX,
PLAGUE,
CHOLERA,

PLAGUE 1

[C indicates cases; D, deaths; P, present]

	Set.		Dec. 30, 1934-	Jan. 27- Ech 27			103			Wee	Week ended-	1036	-		Mow 10	5	1
F 1809	Nov. 24, 1934		Jan. 26, 1935	Feb. 23, 1935		W	March 1935				April 1930	1 1930	İ	-	CLAI VIA	3	I
					8	•	16	ន	30	9	13	8	2	-	=	18	ន
Argentina (see also table below): Pampa Territory-Victorica																-1-	
Santiago de Estero Province-Frias C Azores. (See table below.)		1						İ								•	
Peculatatatut revectorate	14		4									- 14		-			
p		10															
D Ceara State		20															
	5	4	6	0				ç		8		Υ.	25	8	66	36	
Canary Islands: Las Palmas	75 2	114	129	⁸ 6	4	11	101	29		39	34	381 -	32	ន	32 4	32	
	69 69	-		5	. 2	61	4			5	00		1		4		
		4													:		
West Java D Emiodor (see also table holom).	1, 658 1, 658	2, 905 2, 905	2, 425	1, 795 1, 794	340 340	371 371	298 297	296 296									
Egypt: Alexandria	Ъ	4	4	<u>е</u>	4		Ą		đ		Ъ.		Ч		- A		

Asyut Beni-Suef	17							$\frac{1}{11}$	3				3	=		-	
Girga			1	1													-
Kalopa—Plague-infected rats Pasubau	°							1									
rats ct—Kah 10-infect	•								-67								
rats. India D	4, 167	4, 549	5, 852	6,863	1, 713	1, 915	1, 528	1,966 1	1,990 2,	080	1, 271	530 1	- ie 1991				
	63			-	<u></u>					2	1	5		1	5	-	
	2, 093 1, 109	1, 331 823	1, 074 603	1, 233 686	209 114	268 144	122	142 72	163 96	<u> 1</u> 28	82	22	ន្លន	45 18	89 Q	<u>م</u> ق	
	53 53 67	268 127	237 119	161 96	22	38 19	87	12	16	9.07 9.07	00						
Mandalay				5	<u> </u>	118					1						
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Saigon and Cholon	~										12			-			
Laq: Baghdad	•														5		
¹ Including plague in the United States as	nd its po	States and its possessions.															

³ Imported.

A report dated Jan. 29, 1935, states that up to Jan. 23, 79 cases of plague with 78 deaths were reported near Kangping, China; the report also states that up to Jan. 21, 50 deaths from pigue were reported in 6 villages of the Pe Wang Fu District, northwest of Kangping, Manchurla, China, 19, 1935, 4 cases of plague with 35 deaths were reported at Mansantun, Manchurla, China.
• Up to Jan. 5, 1935, 44 cases of plague with 36 deaths were reported at Longunyen, and 1 case of plague were were reported at Mansantun, Manchurla, China.
• During the week anded June 3, 1935, 1 case of plague was reported at Longunyen, and 1 case of plague at Tayninh, Indo-China.

FEVER-Continued
YELLOW
AND
FEVER,
TYPHUS
SMALLPOX,
PLAGUE,
CHOLERA,

PLAGUE-Continued

[C indicates cases; D, deaths; P, present]

	ł									Wee	Week ended	ł					
Place	Nov.	25-1934 Dec.	Dec. 30, Jan. 27- 1934- Feb. 23, Jan. 26, 1935	Jan. 27- Feb. 23, 1935		W	March 1935	5			April 1935	1935			May 1935	1935	
					3	6	16	ន	30	9	13	8	22	ł	п	18	s
Madagascar. (See table below.) Morocco: Baffi Region									0.4	6	24	40	0 CO				
TangterÖ Peru. (See table below.) Senegal. (See table below.)	7								·	•	2	•	•	•			
Prachin—Nagara Nayok	•	4		1													
Ralpuri Bouth-West Africa. (See table below.) Tunisha: Tunis Plague-infected rate					1											2	
Union of South Africa: Cape Province Orange Free State		~	ŝ										6				
Transvaal United States: California-Plague-infected ground squir-								14									
rels— Modec County 4. San Luis Ohisno County													3	6	7	\$	
Oregon-Iake County-Plague-infected ground squirrels													•		-		
				_	_												

• For the 2 weeks ended June 8, 1935, 26 plague-infected ground squirrels were reported in Modoc County, Calif. ? Plague-infected mouse. • Plague-infected wood rat.

Perul. Perul.<	Place	No- vember c 1934	r cember J 1934 ar	Janu- Bary 1935 ary 1935 1935	Febru- ary 1935	March 1935	A pril 1935	P1aca	No- vember 1934	Vo- De- vember cember 1934 1934	Janu- Febru- March ary 1935 ary 1935	Febru- ary 1935	March 1936	April 1936
	Argentina (see also table above): Sunta Fe			012 014				Peru Libertad Department C Lima Department C Callao	Q		1 1 2 2 3 1 1 2	500000400 00 TTT 88	аррова <u>ан</u> ав 8	8

Reports incomplete.
 For January and February.

June 28, 1935

-Continued
FEVER-
YELLOW
AND
FEVER
TYPHUS
SMALLPOX,
PLAGUE,
CHOLERA,

SMALLPOX

[C indicates cases; D, deaths; P, present]

	Oct.	Nov.	Dec.	Jan.						Wee	Week ended-	1					
Place	Nov.	a D S S S S S S	30, Jan.	r B B B B S		W	March 1935				April 1935	1935			May 1035	1035	
	1934	1934	26, 1935	1935	3	6	16	ន	8	9	13	8	12	7	11	18	ĸ
Algeria: Constantine Department. Baigian Congo (see also table below.) Brailita Recifications (See also table below.) Brailita British East Africa: Tanganyka Pritish Sounaliland. British Sounaliland. British Sounaliland. Pritish Sounaliland. British Sounaliland. Canada: Northern Rhodesia Northern Rhodesia Ontarto. Canada: Alberta Alberta Alberta Canada: Ca		· · · · · · · · · · · · · · · · · · ·	[−] − − − − − − − − − − − − − − − − − −	1 1 1 1 2 2 2 3 3 1 1 1 1 1 2 2 2 3 1 3 1	N		мисию» + 32 2						- 0	∞¬⊕,Ω			

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8 41	87 3	16 2	31, 538 6, 726 27	7, 778 1, 445 114 114 103	4, 939 835 48 835 48	43 193 133	-11 82	2
61 11 4		A I 1 °	23, 522 5, 44 4 27	4, 816 1, 019 87 79 79 79	2 5, 324 851 36	279 24 92 44 92	14	
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Tientsin. Tsingtao. Chosen. (See table below.) Colombia. Barranquilla. Barranquilla. Dabomay. (See table below.) Dutch East Indles. Balel.	Egypt: Dakahiya Oharbiya Suez Frivrinces Eritrea. Frinand. (See table below.)	Formose, (See table below.) France. (See table below.) French Somaliland. Great Britain: England and Waiss Greece: Salonika Guatemala. (See table below.)	India Assam Bassein	Bombay Presidency Bombay Calcutta	Contragoug Karsohi Madras Presidency	Negaptiam Punjab Rangon Tuttoorin Vizagaptam	Purda Ar steuor. Chandernagor Karkal. Mahe. Pondichery	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

SMALLPOX-Continued

[C indicates cases; D, deaths; P, present]

	Oet.	Nov.	Dec.	Jan.						We	Week ended	1					
Place	8 2 X	^{ఇర్ది} జ్	30, Jan.	Ee,		W	March 1935	~			April 1935	1935			May 1935	1935	
	1934	1934	26, 1935	1935	8	8	16	ส	8		13	ิล	13	4	н	18	ន
Indo-China (see also table below): Halphong. Pnom Penh. Outane. Iran.	640	513	1 04	10 h			8-8-	-	~		1	6		2	3	-	8
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Narasaki Narasaki Taiwan Lithuania. (See table below.)		2			со Г											1	
Matter Allende. ⁸ Chlinushua. Guadalajara Matatlan. Matatlan. Matatlan. Matatlan. O Montarrov. D. F	3	17	7 37	8 1C8	33 33 1	30	21	15 21	56 56	11	25		+ 10 1			+2	1
San Luis PotostD Vera Cruz	115	328	82	372	34	8		1 1 86	344			14	1				
Nyasaland. (See table below.) Prestine. Peru. (See table below.) Poland	1	1	3					2	-						1		•

Portugal (see also table below): Lisbon					ŝ	3	1			1							
Portuguese East Africa. (See table below.)	1 9	- X	88	74										4			
Saudi Arabia								+ 24	24					19	19		
Siam C Bangkok				- 12													
Sierra Léone.	- 105	172 78	111 16	296 15	1 95 13	1 95 13	1 19 4	6.	0 90 1	19 8 6	1 19 3 16	16	117	8 1177	¹ [53 11 3	60	
Etraits Settlements: Singapore C Sudan (Anglo-Egyptian)O		12	13			9	4	-	3	12	1 8	60	10	1 1	1	201	<del>4</del> 01
Provinces	33	49	8°£	04			2						1				
Trans-Jordan Tunisia	-		1													-	
Turkey. (See table below.) Union of Soviet Socialist Republics. (See table below.)																	
	_	_					1	1		1	-	-	-	-	-	-	

1 For 2 weeks. * Imported. A report duted Dec. 28, 1934, states that about 48 cases of smallpox with 5 or 6 deaths had been reported at Allende, Mexico. 4 For 3 weeks.

On vessels:

vessels:			On vessels:		
Kwang-Si at Jibuti 1	case Nov.	24, 1934	S. S. Tateuta Maru at San Francisco.		Mar. 1
Vareta at Basra 1		8, 1934	S. S. Pendeen at Port Said from Odessa.		Aar. 1
Talma at Hong Kong	e Jan.	19, 1935	8. 8. <i>Anhui</i> at Singapore from Hong Kong.		Aar. 2
Chilka at Rangoon from Gonalpore.		23, 1935	S. S. Van Heutez at Singapore from Amoy		Aar. 2
Aoranoi at Sydney from Vancouver	e Jan.	24, 1935	8. S. Mulberg at Aden		Aar. 2
Hosang at Singapore from Osaka.		2, 1935	8. S. Anshun at Swatow from Hong Kong		Aar. 2
Rhong at Port Swettenham from Madras		22, 1935	S. S. Varsova at Karachi		Aar. 3
ongolig at Suez from Australia.		24, 1935	8. 8. Jinkai Maru at Eingapore from Miike.		Dr.
Rangoon. 1	e. Feb.	26, 1935	S. S. Ozarda at Tuticorin from Akyab.		.io
isano at Singapore from Hong Kong		27, 1935	B. B. Ekma at Rangoon from Calcutta		Vor. 1
npress of Britain at Singapore from Bombay	e Mar.	3, 1935	S. S. Ipoh at Penang from Singapore.		Dr. 1
Cremer at Singapore from Amoy. 1 cas		11, 1935	8. 8. Hong Peng at Singapore from Amoy	1 case /	Apr. 1
-	e Mar.	14, 1935	8. S. Anhui at Singapore from Hong Kong		Vpr. 1
Tateuta Maru at San Francisco.	e Mar.	14, 1935	S. S. Jalagopal at Rangoon from Chittagong		Vpr. 1

15, 1935 16, 1935 22, 1935 22, 1935 30, 1935 30, 1935 31, 1935 11, 1935 19, 1935 19, 1935 19, 1935 19, 1935

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

SMALLPOX-Continued

[C indicates cases; D, deaths; P, present]

Place	Novem- ber 1934	Decem- ber 1934	Novem- Decem- January Febru. March April ber 1934 ber 1934 1935 ary 1935 1935 1935	Febru- ary 1935	March 1935	April 1935	Place	Novem- ber 1934	Decem- ber 1934	Januery 1935	Novem- Decem- January Febru- March April ber 1934 ber 1934 1935 ary 1935 1935	March 1935	April 1935
Belgian Congo (see also table above)	28 1 28 1 1 28 28 29 1 1 20 1 20 1 20 1 20 1 20 1 20 1 20	28 25 25 25 25 25 26 25 26 26 27 28 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27		58 179 137 137 88 88	95 178 16 16 01	862 552	Lithuania	⁵ 8328 887		°° 4 5	5 2 2 2 2 2 2 2 2 2 2 2 2 2	88 89 29 29 39 8	
D Japan (see also table above) C	_ <u>-</u>	22 25	21	ලී හ	83	53 92	publicsC	388	392				

## TYPHUS FEVER

[C indicates cases; D, deaths; P, present]

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	May 1935	п				•		
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	1935	କ୍ଷ		#		-		
	April 1935	13		13	69			
		v		3	10	101		
Week ended		30		0	1	3		
Week e	35	ĸ		9		3		
	March 1935	16	ľ	2	7		ľ	
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	ry 193(	16		•	-			
	February 1935	8		7	8			
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Nov.	^y Sa	1934	61	14	- 6		4	1
Oet.	8 N. 70	1934	-		5	8	82	10
	Place		Algeria: Algiers Department			Southern Territories	Belgian Congo.	Bolivia. (See table below.) British East Africa: Uganda

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below.) e table below.)	Port Said Port Said Port Said Provinces Bust Provinces Bust Provinces Consections Consections Consections Indo-China. (See table below.) Indo-China. (See table below.)

**June 21**, 1935

FEVER-Continued	
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TYPHU	
SMALLPOX,	
PLAGUE,	
CHOLERA,	

# TYPHUS FEVER-Continued

[C indicates cases; D, deaths; P, present]

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	April 1935	13	8	128 8	1	~~ ~	°8	
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Dec.	30, 1934- Jan. 26,	1935	P0 0	199 17	26		49	
Nov.	a a a a a a	1934	17 4 1	124	4		* 23	
Oct.	20 No.	1934	4	61		-	35	
	Place		Morocco. Palestine Balla.	(·	Tarouca (near) Rumana. (See table below.) Studi Anbia. Straits Settlements: Singapore		Frowinses	On vessel: 5.5. 14044 Frince at San Francisco. O

ch April 5 1935	11 22 28 28 28 29 10 10 10 10 10 10 10 10 10 10 10 10 10
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Place	Portugal Rumania Rumania Union of South Africa: Cape Province
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## YELLOW FEVER

## [C indicates cases; D, deaths; P, present]

										Week	Week ended—							
Place	Oct. 28- Nov. 24. 1934	Oct. 28- Nov. 30, 1934- Nov. 25-Dec. 30, 1934- 24, 1934 29, 1934 Jan. 26,	Dec. 30, 1934- Jan. 26,		Februs	February 1935			Mar(	March 1935				April 1935	35	4	May 1935	3
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St. Mary's Island			-							<u>   </u> 	<u>   </u> 						<u>: 1</u> 	
During the week ended June 1, 1935, 4 cases of yellow fever were reported in Goyaz State, and 6 cases of yellow fever were reported in Minas Geraes State, Brazil. During the month of October 1834, 1 case of yellow fever was reported at Coronel Ponce, Mato Grosso State, Brazil. Suppected.	rellow fev Llow fever	er were re was repo	ported in rted at (	Doronel	z State Ponce,	and 6 Mato	CRESCS OF Grosso	yellow State, J	fever v Brazil.	vere ret	orted i	a Min	as Geri	aes Stat	e, Bra	1		

FEVER-Continued
YELLOW
AND
FEVER,
TYPHUS
SMALLPOX, 1
PLAGUE,
CHOLERA.

YELLOW FEVER-Continued

[C incidicates cases; D, deaths; P, present]

										W eek	Week ended-	1						
Place	Oct. 28- Nov. 2	Nov. 5-Dec. 29, 1934	Dec. 30. 1934- Jan. 26,		February 1935	ry 1935			Marc	March 1935				April 1935	98.5	4	May 1935	8
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⁴ During the week ended May 25, 1935, 1 case of yellow fever with 1 death was reported at Sokode, Togo.

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