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LACTOFLAVIN¹ IN THE TREATMENT OF CANINE BLACKTONGUE

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Since it has been shown that the symptoms of vitamin G deficiency in rats are due to a deficiency in lactoflavin (riboflavin ¹) in the diet, there has been some question as to the identity of this substance with the pellagra- or blacktongue-preventive factor.

Rhoads and Miller (1), in 1935, reported that a blacktongueproducing diet maintained a normal rate of growth in young rats and stated that they were unable to produce blacktongue with a diet devoid of vitamin G. They inferred that blacktongue is due to some factor other than vitamin G. Birch, Gyorgy, and Harris (2), in 1935, presented evidence that the blacktongue-preventive factor was distinct from lactoflavin. Using two dogs, they showed that 30 gamma² of lactoflavin per day, given intraperitoneally, failed to cure a condition which they diagnosed as blacktongue. Their description does not agree with the symptoms of blacktongue as observed in this laboratory. They mention transverse ridges on the tongue as a prominent symptom. We have never seen such ridges in blacktongue. However, they present considerable other evidence which strongly supports the point of view that the human pellagra-preventive factor is distinct from lactoflavin and vitamin B₆. In addition, Dann (3) treated three cases of pellagra with lactoflavin without success. Spies (4) treated two cases without success, and Fouts, Lepkovsky, Helmer, and Jukes (5) treated two cases without success.

Booher and Hansmann (6), in 1936, using a lactoflavin concentrate obtained from a low lactose whey powder, which they state contains at least one other heat-stable vitamin necessary for rat growth, succeeded in preventing blacktongue in one dog for 138 days, and successfully treated two dogs which had what were apparently very mild early symptoms of blacktongue. Since they were dealing with an impure preparation, these authors point out that their experiments do not indicate whether only one or more than one of the heat-stable fac-

⁹ One gamma=0.001 mg.

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¹ Since Karrer and coworkers and Kuhn and coworkers have shown that lactofiavin is 6, 7, dimethyl 9 d-ribofiavin we consider the term "ribofiavin" preferable to lactofiavin.

tors of the vitamin B complex is involved in the prevention or cure of blacktongue. They state they found that lactoflavin alone would augment the growth of rats fed a canine blacktongue-producing diet.

Koehn and Elvehjem (7), in 1936, using flavin prepared from liver extract, given by mouth as a supplement to dogs on a blacktongueproducing diet in daily amounts equivalent to 5 grams of liver extract, failed to prevent the onset of symptoms of blacktongue in three dogs and in treatment failed to cure blacktongue in one dog, although no indication of the amount of the extract used in treatment is given. The three dogs in which its preventive action was tested were depleted before the supplement was started. Since these authors do not indicate definitely the quantities of flavin used, it appears that, in spite of this evidence against flavin having any blacktongue preventive action, the failure might be due to an insufficient amount of flavin, particularly since it has been found in testing the blacktonguepreventive value of foods that entirely different results can be obtained with varying amounts of the same food (8).

EXPERIMENTAL

Five dogs (Nos. 316, 318, 322, 329, and 336) were placed on our basic blacktongue producing diet No. 123, the composition of which is given in table 1. It has been our experience with this ration that, with few exceptions (these due apparently to coprophagy), it will produce blacktongue in dogs within about 60 days. These 5 dogs showed the first signs of blacktongue in 53, 36, 32, 61, and 67 days, respectively. Since the early symptoms of acute blacktongue frequently recede without treatment of any kind, in order to avoid this occurrence as far as possible the symptoms were allowed to progress until the attack was well developed. This stage was reached in 6, 2, 4, 5, and 6 days, respectively, from the first appearance of symptoms. (The symptoms and course of blacktongue as observed in these animals follow the description of the disease given by Goldberger and Wheeler (9).) Treatment was then started with large doses of a solution of riboflavin ³ given in gelatine capsules by mouth.

The significant details in regard to each of the experimental animals are as follows:

Dog No. 316

May 15, 1936: Begins diet 123 in good condition.

May 19: Weighs 7.7 kilos.

July 7: First signs of blacktongue—redness of mucosa of cheeks and injection of mucosa of floor of mouth.

July 9, 10, 11: No food eaten.

⁵ The material used was a 0.05 percent solution furnished in sealed ampuls of 2 cc through the courtesy of Mr. John Hart, of the Winthrop Chemical Co., Inc., and was designated as L. F. No. 356. This material was diluted with distilled water and tested in daily doses equivalent to 10 gamma of riboflavin on rats with symptoms of riboflavin deficiency. There was a rapid gain in weight and disappearance of symptoms.

July 13: Red, bandlike lesion on the mucosa of each side of upper lip. Mucosa of cheeks and floor of mouth reddened. Margins of tongue reddened. Given 6 mg L. F. 356 by mouth.

July 14: Weighs 5.5 kilos. Given 4 mg L. F. 356 by mouth.

July 15: No food eaten since the 12th.

July 17: Symptoms of blacktongue have receded and mouth now shows only small red spot on the mucosa of the right side of the upper lip and reddened areas on the mucosa of each cheek.

July 18: Mouth appears normal.

July 21: Weighs 6 kilos.

July 23: Reddened patches have reappeared on mucosa of cheeks, and the mucosa of the floor of the mouth is streakily injected.

July 24: Reddened patches on mucosa of each side of upper lip. Mucosa of cheeks has red granular appearance. Mucosa of floor of mouth is very red.

July 26: Passed fresh blood by bowel.

July 27: Considerable bleeding by bowel. Died apparently from hemorrhage due to intestinal blacktongue lesion.

Summary.—Given 10 mg L. F. 356 in 2 days. One short recession of symptoms. Such recessions frequently occur in blacktongue with no treatment of any kind, and this one in all probability had nothing to do with the administration of riboflavin. Dead in 14 days from beginning of treatment.

Dog No. 318

May 15, 1936: Begins diet 123 in good condition.

May 19: Weighs 7.8 kilos.

June 16: Weighs 8.3 kilos.

June 20: First signs of blacktongue—a reddened streak on the mucosa of each side of the upper lip. The mucosa of the cheeks and of the floor of the mouth is very red.

June 22: Attack of blacktongue well developed with beginning pseudomembrane formation over reddened, bandlike lesion on mucosa of each side of upper lip and on mucosa of cheeks. Given 4 mg of L. F. no. 356.

June 23: Mouth lesions more extensive. Given 4 mg L. F. no. 356.

June 24: Condition is much worse. There is extensive pseudomembrane formation on mucosa of upper lip and cheeks. Mucosa of the floor of the mouth and the ventral surface of the tongue show superficial necrosis.

June 26: Moribund.

June 27: Found dead. No food eaten since June 20.

Summary.—Given a total of 8 mg of L. F. No. 356 in 2 days and died in 5 days from the beginning of treatment.

Dog No. 322

May 15, 1936: Began diet 123 in good condition.

May 19: Weighs 11.8 kilos.

June 16: Weighs 11.6 kilos. First signs of blacktongue—a streaky injection of the mucosa of the upper lip, floor of mouth, and cheeks.

June 20: Denuded, reddened areas on mucoca on each side of upper lip. Mucosa of cheeks has red denuded appearance. Mucosa of floor of mouth intensely reddened. Small superficially ulcerated areas on frenulum and ventral surface of tongue. Given 2 mg of L. F. 356.

June 21: Condition unimproved. Mucosa of upper lip and cheeks covered by pseudomembrane. Mucosa of floor of mouth continues intensely reddened. Given 4 mg L. F. 856. June 22: Condition of mouth definitely worse, with deep ulcers on mucosa of each side of upper lip. Given 2 mg L. F. 356.

June 23: Condition appears to be hopeless. Moribund.

June 24: Found dead. No food eaten since June 18.

Summary.—Given 8 mg L. F. 356 in 3 days. Dead in 4 days from beginning of treatment.

Dog No. 329

May 15, 1936: Began diet 123 in good condition.

May 19: Weighs 7.4 kilos.

July 14: Weighs 7.8 kilos.

July 15: First signs of blacktongue—a diffuse reddening of the mucosa of cheeks, upper lip, and floor of mouth.

July 20: Symptons of blacktongue have steadily progressed and there is now a continuous red, bandlike lesion on the mucosa on each side of the upper lip with beginning pseudomembrane formation. Mucosa of cheeks has a red, granular appearance and is covered by thin pseudomembrane. Mucosa of floor of mouth is dusky red and there is a small ulcer near the frenulum of the tongue. Given 2 doses of 3 mg each of L. F. 356 by mouth.

July 21: Two doses of 3 mg each of L. F. 356 by mouth.

July 22: Given 4 mg L. F. 356 by mouth.

July 23: Has not eaten since July 15. Animal appears unimproved. Buccal mucosa red, and that of upper lip and cheeks still covered by pseudomembrane. Given 6 mg L. F. 356 by mouth.

July 27: Symptons of blacktongue have receded and there is now only a red streakiness of mucosa of upper lip and cheeks.

Aug. 12: Again shows red, bandlike lesion on mucosa of each side of upper lip, with redness of mucosa of floor of mouth and cheeks.

Aug. 15: Symptoms of blacktongue have again steadily progressed until entire mucosa of upper lip is fiery red and shows beginning pseudomembrane formation. Mucosa of cheeks covered by pseudomembrane. Mucosa of floor of mouth and of margin of tongue is very red. Given 2 doses of 3 mg each of L. F. 356 by mouth.

Aug. 16: Given 4 mg L. F. 356 by mouth.

Aug. 17: Given 2 doses of 3 mg each of L. F. 356 by mouth.

Aug. 18: Symptoms of blacktongue have steadily become worse and animal is now moribund.

Aug. 19: Dead.

Summary.—In spite of a total intake of 38 mg L. F. 356 the animal died of acute blacktongue in 30 days from the beginning of treatment.

Dog No. 336

May 15, 1936: Begins diet 123 in good condition.

May 19: Weighs 8 kilos.

July 21: Weighs 8.2 kilos. First signs of an attack of blacktongue—faint red streak on mucosa of each side of upper lip. Floor of mouth streakily injected.

July 27: Symptoms of blacktongue have steadily progressed and there is now an intensely reddened band on each side of the upper lip which is covered by pseudomembrane. Mucosa of cheek also reddened and covered by pseudomembrane. Given 4 mg L. F. 356 at 10 a. m. and 4 mg of L. F. 356 at 4 p. m., by mouth.

July 28: In comatose condition. Died during day. Necropsy shows lesions of advanced blacktongue and secondary bronchopneumonia.

Summary.—This animal died too soon after the administration of the riboflavin for the results to be of much significance.

SUMMARY

All five of the experimental animals died in 14, 5, 4, 30 days and 1 day from the beginning of treatment with riboflavin, having received a total dosage of 10 mg, 8 mg, 8 mg, 38 mg, and 8 mg, respectively.

CONCLUSIONS

Riboflavin in relatively large doses administered by mouth is without therapeutic value in acute blacktongue of dogs. This adds further evidence to the view that riboflavin is distinct from the blacktonguepreventive factor.

		Nutrients			
Article of diet	Quantity	Protein	Fat	Carbohy- drate	
Corn meal ³ Cowpeas (<i>Vigna staensis</i>) ³ Casein (Durified) ⁴	Grams 400 50 60	Grams 83.6 10.7 52.0	Grams 18.8 .7	Grams 296. 0 30. 4	
Sucrose Cottonseed oil Cod-liver oil Sodium chloride	82 30 15 10 3		30. 0 15. 0	82. 0 	
Total nutrients Nutrients per 1,000 calories		96. 3 40. 1	64. 5 26. 9	358. 4 149. 3	

TABLE 1.—Composition of basic blacktongue-producing diet no. 125¹

Commercial casein leached for a week in daily changes of acidulated water.

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¹ The corn meal, cowpeas (previously coarsely ground), and salt are stirred into water and cooked in a double boiler of enamelware for about 1½ hours. Then the other ingredients are well stirred in, the total weight being brought to 2,400 grams with water (so that 1 gram represents 1 calorie), and this finished mixture is served to the dog ad libitum. ³ Whole maize meal (white) sifted as for human consumption. ³ The variety known as the California black-eyed pea. ⁴ One metric mean locable for a metric in doing schemens of originated metric.

LEPROSY IN ARGENTINA

According to a report dated December 18, 1936, from the American Consul General at Buenos Aires, it is estimated that Argentina has between 8,000 and 15,000 lepers. It is stated that leprosy has been gradually increasing there for the past 30 years, while plans for its control, although made, have not been carried into effect.

Legislation passed in 1926 provides for-

1. Obligatory reporting of all cases known to medical authorities or to private citizens.

2. Medical assistance and supervision of all leprous cases under the direction of the National Department of Hygiene.

3. A census of the leper population to be regularly prepared and reported.

4. Isolation of all lepers in asylum-colonies to be constructed with funds derived from the tax on perfumes and patent medicines.

This law has, so far, not been made effective, largely because of the erroneous noticn on the part of citizens that the foundation of leper colonies would constitute a grave danger to the health of surrounding inhabitants; and as a result, bitter opposition was encountered whenever efforts were made to acquire sites for leper asylums.

An unofficial organization, the "Patronato de Leprosos" was formed in 1930, and, with such funds as it has been able to collect, has started a laboratory for the study of leprosy at the Muñiz Hospital in Buenos Aires, where about 200 lepers are interned. This organization is being constantly implored by lepers to provide them institutional care, but this is impossible because of lack of facilities, there being but about 400 beds available in the whole country. Many are sent to the federal capital from interior regions when there is no means of caring for them.

In commenting on the conditions President Justo said, on October 28, 1935:

Public repulsion has prevented the concentrating of lepers in the adequate establishments recommended by modern science. The public is opposed to this measure because of the pretext of danger of infection. They erroneously suppose that establishments destined to shelter lepers constitute an imminent danger to the surrounding inhabitants, but this fear-paradoxical as it may seem-brings as a consequence the complete freedom of the sick persons and greatly facilitates and spreads infection; since the patient cannot go to a hospital or sanatorium-there being only one very small institution which admits them-they have no other recourse than to continue living in contact with the healthy population with the grave consequences which that implies. * * * This will soon be possible to avoid when the much-resisted leper colonies become a reality. The principal provisions of law no. 11,359 have not been fulfilled for lack of a way to carry * * * Let us not permit the continuance in our country of this them out. sad free circulation of lepers in constantly increasing numbers—and this illness no longer exists in the majority of nations-only because of prejudices brought about by the measures designed to solve the alarming problem. * * * The only

means of wiping out the scourge is the isolation of the patients. When this becomes possible through asylum-colonies, a work which the executive power will prosecute with all energy, and when national sentiment is so guided, we will be able to say that this easily avoidable disease has been wiped out.

The national hygiene department has plans for seven leper colonies distributed throughout the country in zones where leprosy is most prevalent.

According to Dr. Pedro L. Baliña, one of Argentina's leprologists, one of these colonies has been constructed on the Island of Cerrito on the Paraná River. It lacks only a part of its equipment to place it in operation, but political influences have prevented its opening, on the plea that it will become a national rather than a provincial asylum. Dr. Baliña states that there are but three places in the country that can offer lepers relief at present, the Muñiz Hospital, a general hospital in Buenos Aires, with a section devoted to leprosy having accommodations for 200 patients, the Carrasco Hospital in Rosario, with beds for 150, and a small asylum in the Province of Córdoba, able to care for 50 to 60 patients.

It is stated that funds for the construction of leper asylums and colonies are now available, and that in the near future the situation with regard to the control of leprosy and the care of lepers in Argentina should be completely changed.

RELIABILITY OF ESTIMATES OF RAT INFESTATION OF VESSELS BY INSPECTION

The determination by guarantine officers of whether or not a vessel shall be fumigated is based largely upon the presence (and degree of infestation) or absence of rats on board. Through international agreement, forms for deratization and deratization exemption certificates have come into use, and these forms, when properly and competently executed, are now almost universally accepted. The certificates provide space for recording the amount of rat infestation of the vessel; and it is the policy of the Public Health Service to require its quarantine officers to issue only completed certificates and to insist that those presented to them be completely filled in before acceptance. In order that the statements in the certificates regarding rat infestation be reliable, it is, of course, extremely important that the inspectors be competent and capable of making accurate estimates on the basis of inspection. It is especially important that the estimates be sufficiently accurate to differentiate between slight and moderate infestation.

As an indication of the degree of accuracy in estimating by inspection the amount of rat infestation of vessels that may be attained by competent and experienced inspectors, the following figures are presented, which are taken from the December report of the fumigation division of the United States Quarantine Station at Rosebank, Staten Island, N. Y.:

Total number of vessels inspected for rat infestation	215
=	
Number of passenger vessels	21
Number of cargo vessels	180
Number of tankers	14
Estimated number of rats on inspection	318
Number of rats secured by fumigation	330

While 14 of these vessels were tankers and many of the others were of substantial ratproof construction, the figures give evidence of the high degree of skill in interpreting the signs of rat infestation that can be acquired by experience and practice.

MENTAL DEFECTIVES AND EPILEPTICS IN INSTITUTIONS IN THE UNITED STATES, 1935

The Bureau of the Census has recently issued a statement presenting a summary of the results of the 1935 census of mental defectives and epileptics in institutions primarily for these classes, from which the accompanying tables and statements are taken. The figures are preliminary and subject to possible correction.

Movement of patient population.—Table 1 shows, for 1935, the movement of the patient population in institutions for mental defectives and epileptics, that is, the number of patients at the beginning of the year, the number of admissions and of separations during the year, and the number present at the end of the year. Separate figures are given for State, city, and private institutions.

The figures presented in this table show that, in 1935, State institutions cared for a very large proportion of the total mental defectives and epileptics in special institutions for these classes. The fact that the proportion of the total patients on the books of State institutions at the beginning and at the end of the year, respectively, was so much larger than the proportion admitted to or leaving State institutions during the year indicates that, as a rule, the patients remained in State institutions much longer than in either city or private institutions. Probably incurables form a much larger proportion of the patients admitted to State institutions than of those admitted to city and private institutions.

Significance of the data.—These statistics are valuable chiefly in showing what provision has been made for the treatment of mental defectives and epileptics in special institutions, the types of mentally defective and epileptic persons being cared for, and the relative importance of the different types. It should be clearly recognized, however, that statistics relating to patients in institutions primarily for mental defectives and epileptics do not furnish even an approximate measure of the total number of such patients, either in the country as a whole or in the several States. The institutions established for the care of mental defectives and epileptics contain only a small part of the total number of such persons. The vast majority of them are not confined in institutions but live at large in the community. Many are inmates of prisons and reformatories, others are in almshouses, and some are in hospitals for mental patients.

		Nun	n b er	Percent of total			
Class of patients	Total	State institu- tions	City institu- tions	Private institu- tions		City institu- tions	Private institu- tions
Patients on books at beginning of year	108, 684	103, 227	1, 106	4, 351	95. 0	1.0	4.0
Male Female In institution On parole or otherwise absent	52,010 95,101	53, 851 49, 376 89, 760 13, 467	592 514 1, 108 8	2, 231 2, 120 4, 238 113	95.0 94.9 94.4 99.1	1.0 1.0 1.2	8.9 4.1 4.8 .8
Admissions during year	13, 152	12,067	425	660	91. 8	8. 2	5.0
Male Female First admissions ¹ Readmissions Transfers from other institutions for	11, 243 887	6, 881 5, 186 10, 299 765	241 184 349 76	345 315 595 46	92. 2 91. 2 91. 6 86. 2	3.2 3.2 3.1 8.6	4.0 5.5 5.3 5.2
mental defectives and epileptics	1, 022	1, 003		19	98.1		1.9
Separations during year	9, 868	8, 564	707	597	86. 8	7.2	6.0
Male Female Discharges Transfers to other institutions for mental	4, 282	4, 873 8, 691 4, 911	402 305 185	311 286 443	87. 2 86. 2 88. 7	7.2 7.1 3.3	5. 0 6. 7 8. 0
defectives and epileptics Deaths in institution Deaths while on parole	1, 559 2, 679	1, 018 2, 547 88	473 49	68 83 3	65. 3 95. 1	30. 3 1. 8	4.4 3.1
Patients on books at end of year	111, 968	106, 730	824	4, 414	95. 3	.7	3. 9
Male Female In institution On parole or otherwise absent	53, 413 97, 439	55, 859 50, 871 92, 329 14, 401	431 393 821 3	2, 265 2, 149 4, 289 125	95. 4 95. 2 94. 8 99. 1	.7 .7 .8	21

 TABLE 1.—Movement of patient population in institutions for mental defectives and epileptics, by class of institution, 1935

¹ The term "first admissions" is here used to designate persons admitted to institutions for mental defectives and epileptics for the first time. Of the 11,243 first admissions to such institutions during 1935, 10,299, or 91.6 percent, were admissions to State institutions. This figure does not agree with the total of the figures in tables 4 and 5 for the reason that they include 450 first admissions of patients who are neither mental defectives nor epileptics and, therefore, are not included in tables 4 and 5. Also, the 1,603 who are both mental defectives and epileptics are included in the totals of both of the latter tables.

Mental status.—According to the classification of mental defectives by mental status here used, an "idiot" is a mentally defective person having a mental age of not more than 35 months, or, if a child, an intelligence quotient of less than 25; an "imbecile" has a mental age of between 36 and 83 months, inclusive, or an intelligence quotient between 25 and 49; and a "moron" has a mental age of between 84 and 143 months, inclusive, or an intelligence quotient between 50 and 74. As the mental defectives admitted to institutions consist largely of those who are unable to make adequate social adjustments, the proportions of idiots and of imbeciles among the first admissions of mental defectives are probably much higher than among the total mental defectives.

 TABLE 4.—First admissions of mental defectives to State institutions, by sex and mental status, 1935

		Number		Percent distribution			
Mental status	Total	Male	Female	Total	Male	Female	
Total	8, 954	4, 957	8, 997	100. 0	100. 0	100. 0	
Moron Imbecile Idiot Unclassified	4, 240 2, 810 1, 645 259	2, 302 1, 566 936 153	1, 938 1, 244 709 106	47.4 81.4 18.4 2.9	46. 4 31. 6 18. 9 3. 1	48. 5 81. 1 17. 7 2. 7	
Both mentally defective and epileptic	1, 603	906	697	17.9	18. 3	17.4	

Type of epilepsy.—The classification of epilepsy as symptomatic and idiopathic is that of the American Psychiatric Association, "symptomatic" signifying cases in which the attacks result from a definite underlying disease and "idiopathic" signifying attacks resulting from unknown causes. It may be noted that epileptics of the idiopathic type far outnumbered those of the symptomatic type among first admissions to State institutions, and that a large majority of the first admissions were both epileptic and mentally defective.

 TABLE 5.—First admissions of epileptics to State institutions, by sex and type of epilepsy, 1935

Type of epilepsy		Number		Percent distribution			
I The or shushed	Total	Male	Female	Total	Male	Female	
Total	2, 498	1, 489	1,009	100. 0	100. 0	100, 0	
Symptomatic Idiopathic Unclassified	682 1, 542 274	436 886 167	246 656 107	27. 3 61. 7 11. 0	29. 8 59. 5 11. 2	24. 4 65. 0 10. 6	
Both epileptic and mentally defective	1, 603	906	697	64.2	60. 8	69, 1	

DEATHS DURING WEEK ENDED FEB. 6, 1937

(From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

	Week ended Feb. 6, 1937	Correspond- ing week, 1936
Data from 85 large cities of the United States: Total deaths. Average for 3 prior years. Total deaths, first 5 weeks of year Deaths under 1 year of age. Average for 3 prior years. Deaths under 1 year of age, first 5 weeks of year Deaths under 1 year of age, first 5 weeks of year Deaths under 1 year of age, first 5 weeks of year Deaths under 1 year of age, first 5 weeks of year Deaths under 1 year of age, first 5 weeks of year Deaths under 1 year of age, first 5 weeks of year Deaths under 1 year of age, first 5 weeks of year Deaths under 1 year of age, first 5 weeks of year Death the insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate.	10, 819 9, 040 63, 920 636 611 8, 229 69, 123, 600 16, 233 1, 5	10, 682 47, 197 616 2, 823 67, 867, 697 14, 405
Death claims per 1,000 policies, first 5 weeks of year, annual rate	ii i	11.0

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 Feb. 13, 1937, and Feb. 15, 1936

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Feb. 13, 1937, and Feb. 15, 1938

· · · · · · · · · · · · · · · · · · ·	Diphtheria		Diphtheria Influenza		Me	asles	Meningococcus meningitis	
Division and State	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936
New England States: Maine	4 	1 9 1	400 57 438	5 15 12	28 44 1 1,006 179 340	324 30 271 706 58 122	0 0 1 8 0 0	0 0 6 0
New York New Jersey Pennsylvania East North Central States:	34 13 44	87 10 48	³ 50 54	* 60 17	288 464 145	1, 807 70 640	12 3 14	20 \$ 9
Ohio Indiana Illinois Michigan Wisconsin West North Central States:	20 5 36 13 1	53 36 51 4 ·1	1, 298 172 239 24 632	95 45 39 8 44	21 4 37 58 22	216 9 19 27 43	8 4 12 4 4	11 8 9 1 1
Minnesota Iowa North Dakota South Dakota Nethaska Kansas South Atlantic States:	1 6 10 1 	2 7 81 1 1 2 15	14 90 1, 573 207 29 7 698	1 4 308 2 47	20 2 4 	195 14 16 4 8 6 15	1 1 3 6 1 0 2	8 12 10 0 1 5 0
Bouth Atlantic States: Delaware. Maryland 4. District of Columbia. Virginia. West Virginia. North Carolina 1. South Carolina. Georgia 1. Florida.	1 12 6 16 20 24 8 12 5	11 18 17 17 12 2 11 4	6 394 53 1, 510 115 1, 135 827 5	21 3 88 234 1, 538 649 18	102 385 32 163 8 61 32 4	71 214 21 95 8 23 13 3	1 6 0 10 4 4 0 1 10	0 7 4 15 2 2 10 3 0

See footnotes at end of table.

Cases of certain communicable di	seases reported by te	legraph by State health officers for
weeks ended Feb. 13	, 1937, and Feb. 15	legraph by State health officers for 5, 1936—Continued

	Dip	Diphtheria		luenza	M	easles		Meningococcus meningitis	
Division and State	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937		Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937		
East South Central States: Kentucky. Tennessee Alabama ¹ . Mississippi ³ West South Central States:	1 16	15 9 15 8	376 837 920	62 245 686	36 182 8	68 15 80	6 5 4	, 13 16 8 2	
Arkansas Louisiana Oklahoma ⁴ Texas	- 7	9 25 8 69	1, 048 228 1, 342 3, 624	57 48 207 370	1 15 330	2 40 3 93	15 0 8 9	2 3 17 8	
Mountain States: Montana Idaho. Wyoming Colorado		2	403 134	18 6	7 88	56 14 3 8	2 0 0 0	0 1 2 6	
New Mexico Arizona Utah 3 Pacific States:	8	6	406 969	8 151	29 156 24	1 22 4	0 3 0	0 3 1	
Washington Oregon California	25	28	11 770 6,087	67 3, 890	61 8 89	174 767 1, 529	8 0 17	1 2 10	
Total First 6 weeks of year	450 8, 547	596 4, 164	27, 281 167, 901	9, 077 24, 794	4, 512 26, 130 [°]	7,872	178 857	234 1, 115	
Division and State	Polion Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week	t fever Week ended Feb. 15, 1936	Week	Week ended Feb. 15, 1936	Week	id fever Week ended Feb. 15, 1936	
New England States: Maine	000 100 100 100 100	0 0 0 0 0 0 0 0 1 1 0	25 13 16 235 63 97 746 164 834 313 160 622 733 861	14 8 31 2900 19 67 905 287 525 473 438 668 315 454	0 0 0 0 0 0 0 0 1 2 11 2 11 8 2	0 0 0 0 0 0 1 1 3 25	1 0 0 0 1 5 4 8 3 0 8 1 0	0 0 5 0 0 4 1 11 2 2 3 1 1	
Vest North Central States: Minnesota Iowa Missouri North Dakota Bouth Dakota Nebraska Kansas	0 1 0 1 1 0 1	0 0 1 0 0 0 1	136 291 288 73 69 108 314	361 131 186 74 54 184 255	8 33 98 57 6 5 45	4 8 4 1 12 20 22	0 1 2 1 0 1 0	1 12 0 0 1 1	
outh Atlantic States: Delaware	0 0 0 1 0 8	0 0 0 0 0 0 0 0 0 0	2 49 17 31 49 57 6 12 7	6 90 21 43 35 30 4 25 6	0 0 1 0 0 0 0 0	0 0 0 0 1 0 0 0 0 0 0 0	0 0 4 1 2 8 2	1 1 6 2 7 0 0 0	

See footnotes at end of table.

	Polion	yelitis	Scarle	t fever	Sma	llpox	Typho	id fever
Division and State	Week ended Feb. 13, 1987	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936	Week ended Feb. 13, 1937	Week ended Feb. 15, 1936
East South Central States: Kentucky Tennessee Alabama 1 Mississippi 3 West South Central States:	1 1 1 1	4 0 1 0	24 27 16 8	54 43 19 13	· 0 0 5 0	0 0 0	8 6 1 9	3 0 1 2
Arkansas Louisiana Oklahoma 4 Texas Mountain States:	8 0 1 3	0 2 0 0	17 10 27 109	14 25 35 105	1 0 1 8	0 0 1 1	1 5 3 8	1 1 8 5
Montana Idaho W yoming Colorado New Mexico Arizona Utab ¹	000000000000000000000000000000000000000	0 1 0 0 1	54 0 12 42 25 28 16	84 59 119 14 3 91 24 85	23 34 0 0	8 10 4 20 0 0	1 0 0 8 0	0 1 0 8 0
Pacific States: Washington Oregon California	000	1 1 9	62 20 274	89 48 395	16 11 25	17 0 1	1 2 4	0 1 3
Total		25	6, 662	7, 444	871	177	87	88
First 6 weeks of year	145	116	86, 462	44, 100	1, 828	1, 259	690	619

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Feb. 13, 1937, and Feb. 15, 1936—Continued

1 Typhus fever, week ended Feb. 13, 1937, 9 cases, as follows: Connecticut, 1; North Carolina, 3; Georgia, 4; Typnus tors, Alabama, 1.
New York City only.
Week ended earlier than Saturday.
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	Mala- ria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
December 1836 Arizona Wyoming January 1837		27 1	428	1	227 8	1	1 0	56 44	0	9 8
District of Columbia Missouri New Maxico South Carolina West Virginia Wyoming	14 16 6 3 	94 123 2 13 153 55 7	398 6, 711 322 1, 360 3, 460 2, 597 340	4	106 36 13 103 144 84 3	 1 70	1 3 2 1 4 0	83 1, 137 284 107 39 269 72	0 355 27 0 0 23	2 20 4 18 10 13 8

Summary of monthly reports from States—Continued

December 1956	Jenuery 1937-Continued	January 1937—Continued
December 1936 Arizona: Cases Chicken poz	Jenuery 1937—Continued Diarrhea: Cases South Carolina	January 1837—Continued Rables in man: Cases West Virginia
January 1837 Ohicken pox: District of Columbia	Wyoming 72 Ophthalmia neonatorum: 72 New Mexico 1 South Carolina 10 Puerperal septicemia: 10 New Mexico 1 Rables in animals: 1 Missouri 2 South Carolina 43	Typhus fever: 8 Bouth Carolina

CASES OF VENEREAL DISEASES REPORTED FOR DECEMBER 1936

These reports are 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 and city 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.

Reports from States

	8yı	bilis	Gond	orrhea
State	Cases reported during month	Monthly case rates per 10,000 population	Cases reported during month	Monthly case rates per 10,000 population
Alabama	703	2.48	284	1.00
Arkansas ³	157 1,508	. 79 2. 67	108 1, 542	.54 2.73
Colorado 1	197	1. 15		. 76
Delaware	188	7.34	47	1.84
District of Columbia	131	2. 21	107	1.80
Florida	400 1,023	2.48 3.06	98 425	.61 1.27
Idaho	1,023	.29	425	. 29
Illinois	1.661	2.12	1.237	1.58
Indiana	125	. 36	98	. 29
Iowa ¹	122	.48	184	. 73
Kansas Kentucky ¹	108	. 58	60	. 32
Louisiana	170	. 80	97	. 46
Maine 3	85	. 41	25	. 30
Maryland	716	4.29	224	1.34
Massachusetts	444 572	1.01 1.23	590 571	1.35 1.23
Michigan Minnesota	186	1.23	310	1.23
Mississippi	1, 878	7.03	2,706	10.59
Missouri	456	1.17	101	. 26
Montana 1	28	. 53	54	1.02
Nebraska	45	. 83	87	. 64
Nevada ³ New Hampshire	15	. 30	11	. 22
New Jersev	673	1. 57	276	. 64
New Mexico	86	2.14	36	. 93
New York	7, 122	5. 53	2, 104	1.60

See footnotes at end of table.

	Вур	bilis	Gond	orrhea
State	Cases reported during month	Monthly case rates per 10,000 population	Cases reported during month	Monthly case rates per 10,000 population
North Carolina. North Dakota. Ohio. Oklahoma ² . Oregon. Pennsylvanla ⁴ . Rhode Island. South Carolina ³ . Bouth Dakota. Teanessee. Teanessee. Teanessee. Vitah ³ Vernont. Virginia. Washington. West Virginia. Wisconsin ⁴	88 208 83 410 340 20 394 296 230 19	8.54 .14 1.75 1.03 1.29 1.03 1.23 1.41 .56 1.41 1.53 1.49 1.49 1.49 1.97 .07	389 37 549 99 157 134 66 60 2900 33 222 202 202 202 202 202 202 202 20	1. 14 .53 .82 .39 1. 56 .13 .97 1. 44 .49 .76 .33 .73 .73 .73 .93 .73 .93 .25
Total	23, 314	1. 90	13, 815	1. 13

Reports from States-Continued

Reports from cities of 200,000 population or over

		1	,	
Akron, Ohio	27	0.99	12	0.44
Atlanta. Ga.		0.89	14	0.11
Baltimore. Md. ¹				
Birmingham, Ala	120	4.25	72	2.55
		2.18	223	2.82
Boston, Mass	214		159	
Buffalo, N. Y		3.61		2.69
Chicago, Ill		2.20	627	1.76
Cincinnati, Ohio		1.95	55	1.18
Cleveland, Ohio		2.00	95	· 1.02
Columbus, Ohio		2.91	23	.75
Dallas, Tex		3.07	74	2.56
Dayton, Ohio 1				
Denver, Colo		1.58	40	1.35
Detroit, Mich. ¹				
Houston, Tex.		4.57	56	1,67
Indianapolis, Ind.	21	. 56	18	.48
Jersey City, N. J. ¹				
Kansas City, Mo.	26	. 62	4	.09
Los Angeles, Calif. ¹				
Louisville, Ky. ¹				
Memphis, Tenn	186	6.97	52	1.95
Milwaukee. Wis.1				
Minneapolis, Minn	71	1.46	124	2.55
Newark, N. J	196	4.23	97	2.09
New Orleans, La. ³			••	
New York, N. Y.	5.675	7.77	1, 305	1.79
Oakland, Calif	45	1.48	42	1.89
Omaha. Nebr.	12	. 54	7	
Philadelphia, Pa	250	1.26	75	
Pittsburgh, Pa. ¹	200	1. 20	10	.00
Portland, Oreg. ¹				
Providence, R. I	49	1.89	47	1.81
Rochester, N. Y	43	1.09	2í	1.61
St. Louis. Mo	43 171	2.05	00 121	
				1.45
St. Paul, Minn	27	. 96	29	1.03
San Antonio, Tex. ¹				
San Francisco, Calif	152	2.27	147	2, 19
Seattle, Wash	144	8.79	184	4.85
Syracuse, N. Y	100	4. 59	58	2.66
Toledo, Ohio	54	1.77	23	. 76
Washington, D. C. ¹	131	2.64	107	2.15
		1		

<sup>No report for current month.
Incomplete.
Not reporting.
Includes only those cases that enter the clinics conducted by the State department of health.
Only cases of syphilis in the infectious stage are reported.
Reported by the Jefferson Davis Hospital; physicians are not required to report venereal diseases.
Reported by the Social Hygiene Clinic.</sup>

WEEKLY REPORTS FROM CITIES

City reports for week ended Feb. 6, 1937

This table summarizes the reports received weekly from a selected list of 140 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- let	Small-	Tuber-	Ty- phoid	Whoop- ing	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	0	9	1	0	5	8	0	0	0	5	28
New Hamsphire: Concord Manchester	0		0	0	0	1	0	0	0	0	7 13
Nashua Vermont: Barre	0		1	0	0	0 0	0	1	0	0	8
Burlington Rutland Massachusetts: Boston	0		00	01	0 1 60	64 0	0	0 0 12	- 0	0	19 8
Fall River Springfield Worcester	000		5 2 0 0	8 87 100	6 6 1 13	54 8 3 2	000000000000000000000000000000000000000	12 0 1 8	0000	152 0 10 23	810 44 85 63
Rhode Island: Pawtucket Providence	0		02	7 174	0	1 87	0	0	0	3 19	25 73
Connecticut: Bridgeport Hartford	• 0	13	8	25	2	26	0	0	0	8	45
New Haven	0	43	1	0	2	2	0	0	0	1	60
New York: Buffalo New York Rochester Syracuse New Jersey:	1 86 0 0	7 119	6 14 1 1	46 51 1 25	26 152 17 11	21 286 6 53	0000	9 96 1	0 3 0	83 74 15 82	175 1, 558 89 72
Camden Newark Trenton	0 0 0	8 18 16	8 0 2	0 297 0	5 14 5	14 9 1	0 0 0	0 4 1	0000	2 29 8	32 110 44
Pennsylvania: Philadelphia Pittsburgh Reading Scranton	8 1 0 2	87 43	24 25 5	10 8 2 0	71 44 1	199 41 12 15	0 0 0	35 8 1 0	1 0 0	104 49 25 1	605 263 36
Ohio:	-			•			ľ,	Ů	۳,	1	
Cincinnati Cleveland Columbus Toledo Indiana:	0 1 7 0	296 6 4	6 11 6 2	6 3 2 8	24 42 11 5	3 48 7 5	0 0 0	10 11 5 4	0 0 0 0	1 42 20 87	158 255 112 83
Anderson Fort Wayne Indianapolis Muncie South Bend Terra Hauta	0 2 2 0 0 2	16	0 2 1 2 1 0	0 0 2 0 0 1	6 6 28 1 8 0	19 5 29 2 8 8	000000000000000000000000000000000000000	0 0 8 2 1 0	000000000000000000000000000000000000000	8 2 19 2 1 0	16 20 133 21 80 23
Minols: Alton Ohicago Egin Moline Springfield Michigan:	0 7 0 2	49	1 10 0 0 2	0 12 0 0 0	4 61 1 4 14	6 212 0 0 5	0 1 0 0	1 44 0 0 0	0 1 0 0 0	1 75 10 13 4	16 777 9 15 81
Detroit Flint Grand Rapids	7 2 0	12 9	7 0 1	- 4 8 7	41 5 8	328 12 9	0 0 1	12 0 2	4 1 0	71 0 10	277 80 50
Wisconsin: Kenosha Madison Milwaukee Racine Superior	0	7	0 0 4 0 0	0 2 8 0	0 1 11 2 0	1 5 46 12 4	000000	1 2 4 1 0	00000	1 8 87 1 8	7 20 129 14 13
dinnesota: Duluth Minneapolis St. Paul	0	3	0 7 8	0 11 8	6 13 10	14 19 8	0	8 2 5	0	0 20 26	22 114 84

City reports for	week end	ed Feb. 6.	1937—Continued
City reporte jor			1007 Communda

Cases Deaths Cases Deaths Cases Iowa: 0<	ess 3883 0 0 0 0 0 0 0 0 0 0 0 0 0	monia deaths 36 6 25 1 1 0 9 2 2 9	let fever cases 1 24 20 24 20 24 57 3 55 8 0 0 0 2 0 10 0	Dox Cases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	culosis deaths 4 0 5 0 1 0 3	phoid fever cases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ing cough cases 0 0 0 0 1 7 7 8 0 0 0 1 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	all causes
Cedar Rapids 0	0 0 0 2 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	6 25 1 	1 24 20 24 57 3 55 8 0 2 0 2 0 10 0	0 0 0 34 0 2 2 0 0 0 0	0 5 0 		00 17 30 49 00 00 0	138 32 267 10
Davemport 0 Des Moines 2 18 Sloux City 0 Missouri: 7 8 Kansas City 7 8 St. Jouis 10 9 4 North Dakota: 0 0 Fargo 0 0 Grand Forks 0 0 South Dakota: 0 0 Aberdeen 0 0 South Falls 0 0 Nebraska: 0 1 Mansas: 0 1 Delaware: 0 6 1 Wilmington 0 1 District of Columbias: 0 1 Virginia: 14 42 7 Richmond 1 0	0 0 0 2 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	6 25 1 	1 24 20 24 57 3 55 8 0 2 0 2 0 10 0	0 0 0 34 0 2 2 0 0 0 0	0 5 0 		00 17 30 49 00 00 0	138 32 267 10
Des Moines 2 18 Slour City 0	0 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 25 1 	24 20 24 57 3 55 8 0 2 0 2 0 10 0	0 0 0 34 2 2 0 0 0 0	0 5 0 		0 1 7 80 49 0 0 0 0	138 32 267 10
Sloux City	0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 55	6 25 1 	20 24 57 3 55 8 0 0 2 0 10 10 0	0 0 34 0 2 2 0 0 0 0	0 5 0 		1 7 80 49 0 0 0	138 32 267 10
Waterloo 0 Missouri: 7 8 St. Joseph 0 8 St. Joseph 0 0 Grand Forks 0 0 Minot 0 0 South Dakota: 0 0 Aberdeen 0 0 Nebraska: 0 0 Nebraska: 0	2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 25 1 	57 355 8 0 2 0 10 0	0 34 0 2 2 0 0 0 0	0 5 0 	0 0 0 0 0 0	8 9 9 0 0 0 0	82 267 10
Kansas City	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 25 1 	3 55 8 0 2 0 10 0	34 0 2 2 0 0 0 0	0 5 0 	0 0 0 0 0	0 49 0 0 0	82 267 10
St. Joseph 0 0 0 St. Louis 10 9 4 North Dakots: 0 0 0 Fargo 0 0 0 Grand Forks. 0 0 0 South Dakots: 0 0 0 Aberdeen 0 0 0 South Dakots: 0 0 0 Aberdeen 0 0 0 Nebresks: 0 0 1 Kansas: 0 18 1 Delaware: 0 18 1 Wichita 0 1 0 1 Baltimore 3 79 8 2 Cumberland<	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 25 1 	3 55 8 0 2 0 10 0	34 0 2 2 0 0 0 0	0 5 0 	0 0 0 0 0	0 49 0 0 0	82 267 10
St. Louis 10 9 4 North Dakota: 0 0 Grand Forks 0 0 Minot 0 0 South Dakota: 0 0 Aberdeen 0 0 South Dakota: 0 0 Nebraska: 0 1 Washase: 0 6 1 Topeka. 0 18 1 Wikhita 0 18 1 Delaware: 0 10 1 Wimington 0 1 0 Frederick 0 1 District of Columbias: 0 1 0 Virginis: 14 42 7 1 Norfolk 0 0	1 0 0 0 0 0 0 0 55	25 1 	55 8 0 2 0 10 0	0 2 2 0 0 0 0	5 0 1 0	0 0 0 0	49 0 0 0	267 10
Fargo 0 0 0 Minot 0 0 0 South Dakota: 0 0 0 Aberdeen 0 0 0 Nebraska: 0 0 0 Omaha 0 0 0 Minot 0 0 0 Nebraska: 0 0 0 Omaha 0 0 1 Kansas: 0 6 1 Topeka 0 18 1 Delaware: 0 18 1 Wichita 0 18 1 Delaware: 0 18 1 Outorland: 3 79 8 2 Cumberland 0 1 0 1 Frederick 0 1 1 District of Columbia: 14 42 7 1 Virginia: Lynchburg 0 0 Nortolk 0	0 0 0 0 0 0 55	0 0 9 2 9	0 0 2 0 10 0	2 0 0 0	1 0	0 0 0	000000000000000000000000000000000000000	
Grand Forks 0 0 Minot 0 0 South Dakota: 0 0 South Dakota: 0 0 South Dakota: 0 0 South Dakota: 0 0 Nebraska: 0 1 Kansas: 0 1 Mansas: 0 6 1 Topeka 0 6 1 Wichita	0 0 0 0 0 0 55	0 0 9 2 9	0 0 2 0 10 0	2 0 0 0	1 0	0 0 0	000000000000000000000000000000000000000	
Minot	0 0 0 0 0 55	0 9 2 9	0 2 0 10 0	0 0 0	0	0	0	5
Bouth Dakota: Aberdeen0 0 Aberdeen0 0 Siour Falls0 0 Omaha0 0 Omaha0 1 Kansas: Lawrence0 6 Wichita0 18 Wichita0 18 Wilmington0 0 Maryland: Baltimore3 79 Cumberland0 1 District of Columbias: Urgeinis: Lynchburg0 14 Virginis: Richmond1 0 Jourdik0 2	0 0 0 55	0 9 2 9	0 10 0	0 0 0	0	0	0	Ĭ
Siour Falls	0 0 0 55	9 2 9	0 10 0	0				
Nebraska: Omsha	0 0 0 55	9 2 9	10 0	0		U		
Omsha 0 1 Kansas: 0 6 1 Lawrence 0 6 1 Topeka 0 18 1 Delaware: 0 18 1 Wichita 0 18 1 Delaware: 0 18 1 Wilmington 0 0 Maryland: Baltimore 3 79 8 2 Cumberiand 0 1 0 1 0 Frederick 0 1 0 1 1 District of Columbia: 0 1 1 Virginia: 0 0 1 1 Virginia: 0 0 0 1 1 Richmond 1 2 1 2 1	0 0 55	2 9	0	-	2		- 0	8
Kansas: 0 6 1 Lawrence	0 55	2 9	0			0	1	69
Topeka	0 55	9						
Wichita 0 18 1 Delaware: 0 0 Wilmington 0 0 Maryland: 3 79 8 2 Cumberland 0 1 0 Frederick 0 1 1 District of Columbia: 14 42 7 1 Virginia: 14 42 7 1 Norfolk	55			0	0	0	0	8
Delaware:	55		8	1	·····ō-	<u>o</u>	2	
Wilmington 0 0 0 Maryland: 3 79 8 2 Baltimore 3 79 8 2 Cumberland 0 1 0 1 0 Frederick 0 1 0 1 0 bist: Washington 14 42 7 7 7 Virginia: 0 0 0 0 Norfolk 0 2 2 1 1			°	•	v I	v	•	60
Maryland: 3 79 8 2 Cumberland 0 1 0 1 0 Frederick 0 1 1 0 District of Colum- bia: Washington 14 42 7 7 Virginia: 0 0 0 1 Norfolk			1					
Baltimore		5	0	0	1	0	0	27
Cumberland 0 1 0 Frederick 0 1 District of Columbia: 0 1 Virginia: 0 0 Lynchburg 0 0 Richmond 1	267	44	13	0	9	1	86	0774
Frederick 0 1 District of Colum- bia: 0 1 Washington 14 42 7 Virginia: 0 0 0 1 Lynchburg 0 0 0 2 Richmond 1 2 2	0	2	10	ŏ	Ő	ó	- 0 0 1	274 10
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Virginia: Lynchburg00 Norfolk2 Richmond12	32	40	13	0	14	0	16	001
Lynchburg 0 0 0 Norfolk 0 2 2 Richmond 1 2 2	26		10		14		10	231
Norfolk 0 2 Richmond 1 2	1	1	1	0	0	0	1	18
	0	6	2	0	1	Ó	0	57
	0	11	7	0	4	0	1	62
Roanoke 1 0	60	1	1	0	0	0	0	22
Charleston 1 5 2	0	14	0	0	1	0	0	37
Wheeling	0	1	2	0	3	0	0	26
North Carolina: Gastonia0	0	0	0	0	0	0	o	
Raleigh	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	12
Wilmington 0	Õ	i	Ő	ŏ	ŏ	ŏ	ő	8
Winston-Salem 0 4 0	1	4	1	0	Ó	0	1	19
South Carolina: Charleston 0 451 0	1	7	3	0	1	2	0	
Columbia	-	1	•	U U	- 1	-	U U	21
Florence 0	0	0	1	0	0	0	0	7
Greenville 0	0	1	1	0	0	0	Ó	10
Georgia: Atlanta	0	13	10	0	2	1	0	
Atlanta 3 378 9 Brunswick 0 0 0	öl	13	10	ő	ő	ō	ő	97 3
Savannah 1 72 1	ŏ	2	ŏ	ŏ	4	ŏ	5	36
Florida:							1	
Miami 1 1 0 Tampa 4 1 0	0	3	1	0	4	0	0	34
Tampa 4 1 0	0	0	1	0	0	0	0	18
Kentucky:							1	
Ashland							·····	
Covington 1 11 0	0	3	· 2 0	0	0	0	0	18
Lexington 0 15 0 Tennessee:	2	5	° I	0	1	0	2	19
Knoxville	0	6	0	0	2	0	3	45
Memphis	1	11	6	0	9	1	10	112
	.0	15	1	0	1	0	0	66
Alabama: Birmingham0 135 9	0	7	1	0	4	0	10	68
Mobile	ŏ	i	î	ŏ	ō	ŏ	ŏ	15
	Ŏ.		Ō	Ó.		Ō	Ŏ.	
	1					- 1		
Arkansas: Fort Smith	0		3	0		0	1	
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Louisiana:		1					- 1	
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118795°-37-2	08	19 16	ő	Ŏ	15 2	8	ŏ	175 60

	Diph-	Inf	luensa	Mea-	Pneu-	Scar- let		Tuber-	Ty- phoid	Whoop-	Deaths,
State and city	theria cases	Cases	Deaths	sles ca.ses	monia deaths	fever cases	pex cases	culosis deaths	lever cases	cases	ali causes
Oklahoma:						_					
Muakogee. Oklahoma City.	0 1		1	0	<u>i</u> i	28	8	ö	0	0	62
Texas:		_									
Dallas. Fort Worth	4	71	29	47	14	10	0	5	0	2	77 52
Galveston	2		ŏ	11/ 0		1	20	3	ŏ	ő	52 18
Houston	5		2	ŏ	17	i	ĭ	7	ŏ	4	117
San Antonio	ž	8	7	4	18	ĩ	Ō	12	ŏ	ō	101
Montana:											
Billings	0		1	0	1	0	0	0	0	0	11
Great Falls	0	148	5	0 12	10	2	0	0	0	0	21 7
Missoula	ŏ	198 56	ŏ	13	. i	ō	ŏ	ŏ	ŏ	ă	4
Idaho:	•		۲	•	· •	•	v	, v	•	•	
Boise	- a i		0	0	3	3	0	0	0	0	12
Colorado:	Ť		-	-	-		-	-	- 1		
Colerado			4						- 1		
Springs	0		1	0	2	5	0	1	1	0	14
Denver	3		6	2	9	12	0		0	42	97
Pueblo	1		1	0	4	5	0	0	0	0	13
Albuquerque	1		0	0	3	5	0	5	0	0	19
Utah:	•		•			•		۳	×	· · ·	10
Salt Lake City	1		5	14	4	14	0	2	0	8	47
Nevada:	- 1		-		- 1		- 1	-	- 1	-	
Reno					·			•••••• ·			
Washington:							1				
Seattle	0		6	8	19	6	0	2	0	8	134
Spokane	0	4	4	0	7	2	0	0	0	9	85
Tacoma	1		6	0	7	1	0	0	0	0	43
Dregon: Portland	1	97	15	0	19	2		4	o	a	132
Salem	5	56	10	ŏ	18	ő	5	•	ŏ	ŏ	102
California:	• 1	~		~		•	~		•		
Los Angeles	8	933	20	23	76	84	1	20	0	65	443
Sacramento	4	688	7	0	21	20	Ō	3	Ő	1	67
San Francisco	1	497	17	1	33	22	0	18	0	26	275

City reports for week ended Feb. 6, 1937-Continued

State and city		gococcus ingitis	Polio- mye-	State and city	Menin	secoccus ingitis	Polio- mye- litis
	Cases	Deaths	litis cases		Cases	Deaths	CREES
Massachuletts: Boston New York: New York: Rochester New York: Newstand: Pennsylvania: Pittsburgh. Ohio: Cliccinnati. Cleveland Indiana: Anderson Terre Haute. Illinois: Chicago Springfield. Michigan: Detroit.	0 9 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 0 1 4 0 1 1 0 0 0 0 1 0		Maryland: Baltimore District of Columbia: Washington West Virginia: Charleston Georgia: Atlanta Louisiana: Lake Charles Teras: Honston San Antonio Colorado: Denvar Seattle Oregon: Portland California; Los Angeles	3 6 1 1 1 8 0 1 1 1 0 2	1 1 1 0 0 1 1 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0
Missouri: Kansas City St. Joseph St. Louis	1 0 5	0 1 0	0 0 0	Los Angeles Sacramento San Francisco	Î O	0 1	Ŏ

Dengue.—Deaths: San Antonio, 1. Encephalitis, epidemic or lethargic.—Cases: New York, 2; Alton, 1. Pellagra.—Cases: Baltimore, 1; Charleston, S. C., 4; Savannah, 4; Montgomery, 2. Typhus fever.—Cases: New York, 1; Wilmington, N. C., 1; Charleston, S. C., 1; Mobile, 1.

FOREIGN AND INSULAR

BERMUDA

Vital statistics-1936.—The following table shows the number of births and deaths reported in Bermuda during 1936:

Population (census of 1931) ¹ :	
White	11, 353
Colored	
Live births:	•
White	216
Colored	532
Stillbirths:	
White	11
Colored	17
Deaths	330

¹ It was stated that, at the present time, the ratio of colored to white population is approximately 2 to 1.

In 1935 there were recorded 727 live births and 304 deaths.

CANADA

Provinces—Communicable diseases—Week ended January 16, 1937.— During the week ended January 16, 1937, 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	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	Brit- ish- Colum- bia	Total
Cerebrospinal meningitis. Chicken por		6 3 	1 5 5	171 29 1 10	3 519 20 5 5 148	48 2 	78 1 	27 2 	95 2 3 	4 949 64 9 28 436
Measles Mumps Paratyphoid fever		4	9 9	354	275 372	38 5	575 20	105 12	1, 297 103	2, 657 521
Pneumonia Poliomyelitis	2	5			28	4	8		9	52 5
Scarlet fever Tuberculosis		11 16	17 5	67 42	169 66	55	29	92	38 13	478 145
Typhoid fever			2	8	1	i	2	3		145
Whooping cough		31		124	162	5	25	18	21	386

LATVIA

Notifiable diseases—October-December 1936.—During the months of October, November, and December 1936, cases of certain notifiable diseases were reported in Latvia as follows:

Disease	Octo- ber	No- vem- ber	De- cem- ber	Disease	Octo- ber	No- vem- ber	De- cem- ber
Botulism Cerebrospinal meningitis Diphtheris Brysipelas. Infinenza Leprosy Messles Mumpa. Paratyphold fever	1 8 80 43 189 1 	3 107 41 793 1 4 6 6	2 10 68 60 2,656 6 8 6	Poliomyelitis. Puerperal septicemia Scarlet fever Trachoma Tuberculosis Typhoid fever Wheoping cough	4 4 267 1 40 252 54 84	2 5 332 79 248 41 56	2 10 830 41 286 25 53

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

From medical officers of the Public Health Service, American consuls, International Office of Public Health, 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 countries for which reports are given.

CHOLERA

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

	June	July	Aug.	Sept.						Week	Week ended						1
Place	4 j j v	Aug.	Sept.	0et.	Z	November 1936	er 1936		Å	December 1936	: 1936			Janua	January 1987		
	1936	1936	1936	1936	7	14	21	28	5	12	19	8	2	6	16	8	30
				<u>н</u> °													
India. Banuaroa. C	17.	25,973	19, 883		664		-	938 7	-	303	856						
Assem		12, 681 293	9, 785 289	9, 520 368	2, 330	2,663 3	18 182	3, 561 173 173	742 3, 178	335 200	570	277	1	02		4	30
		180	158	184	38	8	79	69	81	85		143	191	67	80	10	ន
residency	4	3, 597	2, 970	4, 281	465	280	82	882	131	5	184	321	8	83	22		
Bombar		1, 500		1, 570	50.7	142	077	8	800	3	5	2	101	5	3		
		103	12	2	1	13	9	121	191	22	21	8	17	=	<u>8</u>	ន	61
	-î	5, 730	₹ 363	₽ •	223	228	182	15	201	155	113	291	200				-
Madras Presidency	ຕ໌		4, 607	6, 271	2, 033	2, 470	3, 103	, 580 2	33.					<u> </u>	3		•
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Pondichery Province		-	-		6	5		0									
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Provinces Chatching at Calmitta from Chittagong C	8	117	29	81 19					12	4	23	8	92	105	138	159	21
- 4																	

February 26, 1937

¹ Suspected.

¹ Imported.

FEVER-Continued	
AND YELLOW	
TYPHUS FEVER,	
SMALLPOX ,	
LERA, PLAG	
CHO	

CHOLERA-Continued

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

	×	August 1936	9	Sept	September 1936	386	õ	October 1936	8	Nor	November 1936		December 1936	er 1036
£ 1800	1-10	11-20	1-10 11-20 21-31 1-10 11-20 21-30 1-10 11-20 21-81	1-10	11-20	21-30	1-10	11-20	21-81	1-10	11-20	1-10 11-20 21-30 1-10 11-20	1-10	11-30
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² Reports incomplete.			Ā	PLACTIR.										

PLAGUE!

	June	Jul	Aue.	Sent						Week	Week ended-					
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	1936	1936	1936	1936	2	1	31	8	6 13	10	*	8	°	9	8	8
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Brazil (see also table below):												-	<u> </u>			
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Bao Paulo. British East Africa:	ŝ	ž	2													
Uranda	38	32	128	38	* 29	າສ	าส	ะส	12	-61		-		9		
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 Including plague in the United States and its possessions. A report dated July 29, 1936, states that 23 cases of pneumonic plague with 18 deaths were reported in Sao Paulo, Brazil, A report dated Aug. 20, 1936, states that 5 cases of plague were reported at Kirin Province, Manchuria, China. Includes 1 case of pneumonic plague. A report dated Sept. 3, 1936, states that 2 plague-injected rata were reported in Marselle. France. 	ns. umonic p ue were r ad rats w	lague w eported ere repo	ith 18 de at Kirir rted in 1	² Sus at hs wei Provinc Marseille	pected. e report e, Man	ed in S churia,	ao Paul China.	lo, Brazi	d		-	-		-		

⁷ Plague-infected rats have been reported in Hawaii Territory, Hawaii Island, Hamakua District, as follows: Locality not specified, week ended Aug. 8, 2 plague-infected rats; Paauhau Sector, week ended Feb. 6, 1937, 2 plague-infected rats; week ended February 13, 1837, 2 plague-infected rats; week ended Feb. 20, 1937, 1 plague-infected rats.

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FEVER-Continued
YELLOW
UND
FEVER,
TYPUS
SMALLPOX,
PLAGUE,
CHOLERA,

PLAGUE-Continued

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

Place 28- 26- 26- 21.13 Aug. 20, 21.13 Aug. 20, 23, 24.14 Aug. 20, 25, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26	-							Ă	Week ended						
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tt Bep- tember 1936	83
A ugrust 1986	4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
July 1936	8800
	Argentina: Buenzes Airee- Plagrue-infected rata. Cartamareas Province

Suspected

l Includes 1 case of pneumonic plague. During the week ended Jan. 23, 1937, an episootic of plague with human cases was reported in Northern Rhodesia. For 2 weeks.

¹⁶ Plague-filected fless have been reported in California as follows: Week ended June 27, 1336, 3 lots in Modoc County, and 7 lots in Santa Cruz County. Aug. 18-21, 104 plague-infected flees collected from ground squirrels in San Bernardino County, and according to information dated Nov. 10, 31 fless taken from 24 Fisher squirrels shot in Edoomb Valley, also in San Bernardino County, have been proved plague-infected. A report dated Oct. 13, 1386, states that flees taken from 24 Fisher squirrels shot in Edoomb Valley, also in San Bernardino County, have been proved plague-infected. Intuits and ground squirrels in Montsery County have been proved plague-infected. II During the week ended July 25, 1386, 153 flees and 28 lice taken from 7 marmots (ground hogs) shot at the head of Small Horn Canyon, Beaverleed County, Mont, were

reported plague-infected. 11 Flague-infected foait Utah have also been reported as follows: Aug. 24, 45 fleas taken from 23 prairie dogs in Garfield County, and July 28, 1936, 315 fleas taken from 11 ground sufficient in Clear Creat Canyon, Bevier County.

¹⁸ Pneumonic plague. ¹⁴ From Jan. to Aug. 31.

18 Reports incomplete.

FEVER —Continued
YELLOW
AND
FEVER,
TYPUS
SMALLPOX,
PLAGUE,
CHOLERA,

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

Place June June June June June June June June June Sept. Sept. November 1836 More and		 -															1
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February 26, 1937

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

SMALLPOX-Continued

					[C indic	ates cas	es; D, d	[C indicates cases; D, deaths; P, present]	presei	tt]									
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February 26, 1937

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February 26, 1937

CHOLERA, PLAGUE, SMALLPOX, TYPUS FEVER, AND YELLOW FEVER—Continued TYPHUS FEVER—Continued [C indicates cases; D, deaths; P, present]

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										W	Week ended	led –							
Place	July July 56-1026	26- 26- 26- 1036	Aug. 30- Sept.		Oct	October 1936	8		ž	November 1936	r 1936		Ă	December 1936	r 1936		Janus	January 1937	4
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1 For 2 weeks.

February 36, 1937

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

YELLOW FEVER

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

	June	July	Aug.								Week ended—	pepu								[
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°{		¹ Information dated Jan. 23, 1937,	sta	tes that	37, states that the suspected latal case of yellow fever reported Dec. 22, 1986, at Mangembo, Belgian Congo (p. 122 of PUBLIC HEALTH REPORTS	cted fate	al case o	of yellow	V fever 1	reported	Dec. 22	, 1936, 1	at Man	gembo	, Belgis	n Con	go (p. 1	23 of F	DBLIC	HEALT	H REF	ORTS
37-	01 J 80.	ar. 2, Nevi nas no bene contrined. 3 Yellow fore his site ben renorted in Colombia, as follows: Bestrano. Juna 4 to July 30. 7 desthe: Villaviende January. June, and July. 6 desthe: Santander Denertmant. June.	Ч	n Colom	bia. as foll	lows: Re	streno.	June 41	a July S	10. 7 dent	ths: Vills	vicenci	o. Janu	uľ. Ju	ine. and	I July.	6 death	s: Sant	tander	Denart	ment.	June

¹ Information dated Jan. 23, 1937, states that the suspected fatal case of yellow fever reported Dec. 22, 1936, at Mangembo, Belgian Congo (p. 123 of PUBLIC HEALTH REPORTS of Jan. 23, 1937) has not been confirmed. J Y cliow fever has also been reported in Colombia, as follows: Restrepo, June 4 to July 30, 7 deaths; Villavicencio, January, June, and July, 6 deaths; Santander Department, June, and July, 6 deaths; week ended Feb, 5, 1937, 1 case in Barrancehermela, a port on the Magdalena River.

Suspected.
 Buspected case.
 Inting the week ended [3an. 30, 1037, 1 case of yellow fever was reported at Acore, Gold Coast.
 During the week ended [3an. 7, 1037, states that the suspected case of yellow fever reported Nov. 16, 1036, at Freetown, Sierra Leone (pp. 1731 and 1815 of PUBLIC HEALTH REFORM)
 Information dated [3an. 7, 1037, states that the suspected case of yellow fever reported Nov. 16, 1036, at Freetown, Sierra Leone (pp. 1731 and 1815 of PUBLIC HEALTH REFORM)
 Information dated [3an. 7, 1037, states that the suspected case of yellow fever reported Nov. 16, 1036, at Freetown, Sierra Leone (pp. 1731 and 1815 of PUBLIC HEALTH REFORM)

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