

# ABSTRACT OF SANITARY REPORTS.

VOL. VI.

WASHINGTON, D. C., APRIL 3, 1891.

No. 14.

[Published at the Marine-Hospital Bureau in accordance with act of Congress of April 29, 1878.]

## UNITED STATES.

*Report of official experiments with the Koch "lymph" in progress.*

WASHINGTON, D. C., March 31, 1891.

SIR: I have the honor to submit the following report upon the progress of the experiments with tuberculin:

Since the last report, patient No. 10 has abandoned treatment, and left the hospital at the instance of relatives. While physical examination shows no extension of the disease, his general condition is worse than upon admission. His hectic symptoms are more pronounced, cough and expectoration are both increased, and he has progressively lost weight.

During the past week the use of the remedy in cases Nos. 7 and 8 has been suspended; in No. 7 on account of a supervening attack of influenza; in case No. 8 on account of increased severity of hectic symptoms.

Case No. 6 shows a slight, though steady, improvement.

In the case of lupus, the dose of .020 gram has been reached. The only constitutional effect produced by this quantity was a rise in temperature to 37.2° C., severe frontal headache, and a feeling of great lassitude.

The ulcer to-day presents the following appearance: The right side has almost entirely skinned over, the septum has regained a normal color, and the exposed cartilage has been recovered, and the integument looks sound and healthy. Upon the left side, numerous small fissures, which previously existed, have filled up, the granulations are firm and healthy, and the skinning over is progressing slowly from the edges.

Very respectfully, your obedient servant,

H. D. GEDDINGS,

*Assistant Surgeon, M.-H. S.*

To the SUPERVISING SURGEON-GENERAL.

CAPE CHARLES QUARANTINE—*Smallpox*.—Assistant Surgeon Groenevelt reports as follows:

March 26, released the *Helmsey* and turned her over to health officer of Newport News, who announced his intention of permitting the vessel to go into her dock early on the morning of the 27th instant. Of the

five patients at Fisherman's Island, the man first attacked is well. Three are so far convalescent as to be able to leave their tents. The remaining case, who has the confluent form of smallpox, has been at the point of death, but at present is improving. Doctor Crasy has been unremitting in his attentions to the sick men, and their favorable progress is largely due to his skill and care.

*Reports of States, and yearly and monthly reports of cities.*

MASSACHUSETTS—*Worcester*.—Month of February, 1891. Population, 84,655. Total deaths, 113, including phthisis pulmonalis, 12; diphtheria, 1; croup, 1; measles, 1; and whooping cough, 1.

MICHIGAN.—Week ended March 21, 1891. Reports to the State board of health, Lansing, from 50 observers indicate that inflammation of brain, membranous croup, diphtheria, typhoid fever, whooping cough, pleuritis, cerebro-spinal meningitis, scarlet fever, and dysentery increased, and that puerperal fever, erysipelas, and inflammation of kidneys decreased in area of prevalence.

Diphtheria was reported present during the week at 16 places, scarlet fever at 35 places, enteric fever at 7 places, and measles at 51 places.

MISSOURI—*St. Louis*.—Month of February, 1891. Population, 460,357. Total deaths, 681, including phthisis pulmonalis, 65; enteric fever, 9; scarlet fever, 4; diphtheria, 25; measles, 3; and whooping cough, 13.

NEW JERSEY—*Hudson County*.—Month of February, 1891. Population, 283,850. Total deaths, 507, including phthisis, 62; enteric fever, 20; scarlet fever, 10; diphtheria, 34; measles, 4; and whooping cough, 3.

TENNESSEE.—Month of February, 1891. Reports to the State board of health from 7 cities and towns, having an aggregate population of 242,921, show a total of 386 deaths, including phthisis pulmonalis, 46; enteric fever, 9; diphtheria and croup, 4; measles, 11; and whooping cough, 1.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

Cities.	Week ended.	Population, U. S. Census of 1880.	Total deaths from all causes.	Deaths from—										
				Phthisis pulmonalis.	Yellow fever.	Smallpox.	Varioloid.	Varicella.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
New York, N. Y.	Mar. 28	1,513,501	895	124				1		3	28	16	12	11
Chicago, Ill.	Mar. 28	1,099,133	934	54						16	14	18	6	2
Philadelphia, Pa.	Mar. 21	1,046,964	463	54						30	7	9	6	1
Brooklyn, N. Y.	Mar. 28	806,343	424	51							12	10	10	6
St. Louis, Mo.	Mar. 21	460,357									2	4	2	
St. Louis, Mo.	Mar. 28	460,357								1	1	4	6	
Boston, Mass.	Mar. 28	448,477	196	13						1	5	5		2
San Francisco, Cal.	Mar. 21	298,997	126	18						5	9	9		
Cincinnati, Ohio	Mar. 27	296,908	78	20						2		1		
New Orleans, La.	Mar. 14	241,995	116	13								1	2	
New Orleans, La.	Mar. 21	241,995	114	14								2	2	
Washington, D. C.	Mar. 21	230,392	123	24						3	1	3	3	
Washington, D. C.	Mar. 28	230,392	125							6		3	7	2
Detroit, Mich.	Mar. 28	205,669	80	6							1	8		
Milwaukee, Wis.	Mar. 28	204,150	86	8						2		6	1	
Minneapolis, Minn.	Mar. 28	164,738	79									3		
Louisville, Ky.	Mar. 21	161,005	72									1		
Louisville, Ky.	Mar. 28	161,005	60	6						2		1		1
Kansas City, Mo.	Mar. 28	132,416	56	5								1		
Providence, R. I.	Mar. 28	132,043	37								1			1
Indianapolis, Ind.	Mar. 27	107,445	47	5								2	1	
Toledo, Ohio.	Mar. 27	82,652	28	2						1		2		
Fall River, Mass.	Mar. 28	74,398	34	2							1	1		
Charleston, S. C.	Mar. 21	54,592	36	3										1
Portland, Me.	Mar. 28	36,608	9											
Binghamton, N. Y.	Mar. 28	35,093	13	4							1			
Yonkers, N. Y.	Mar. 21	31,945	10							1				
Mobile, Ala.	Mar. 28	31,822	12	2										
Altoona, Pa.	Feb. 7	30,269	2											
Altoona, Pa.	Feb. 14	30,269												
Altoona, Pa.	Feb. 21	30,269							1					
Altoona, Pa.	Feb. 28	30,269	12											
Altoona, Pa.	Mar. 7	30,269	8											
Altoona, Pa.	Mar. 14	30,269	9											
Galveston, Tex.	Mar. 13	29,118	6							1				
Galveston, Tex.	Mar. 20	29,118	8	1									1	
Auburn, N. Y.	Mar. 28	25,887	4	1										
Newport, R. I.	Mar. 26	19,449	13	1										
San Diego, Cal.	Mar. 21	16,153	6											
Pensacola, Fla.	Mar. 21	11,751	3	1						1				

Table of temperature and rainfall, week ended March 27, 1891.

[Received from War Department, Signal Office.]

Locality.	Mean temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
<b>New England States:</b>						
Eastport, Me.....	31	14		1.07		1.00
Portland, Me.....	33	14		.70	.40	
Boston, Mass.....	37	14		.98	.60	
Block Island, R. I.....	37	14		.89		.30
<b>Middle Atlantic States:</b>						
Albany, N. Y.....	36	42		.63	.10	
New York, N. Y.....	40	14		.91	.60	
Philadelphia, Pa.....	42	14		.70	.50	
Atlantic City, N. J.....	40	0		.89		.10
Baltimore, Md.....	44	0		.88	1.50	
Washington, D. C.....	44	0		.95	2.60	
Lynchburg, Va.....	48		13	.84	.60	
Norfolk, Va.....	49	14		1.05	2.70	
<b>South Atlantic States:</b>						
Charlotte, N. C.....	53		14	1.03	1.60	
Wilmington, N. C.....	55	14		.93	.40	
Charleston, S. C.....	58	0		.91	1.70	
Augusta, Ga.....	58		14	1.17	.20	
Savannah, Ga.....	60	0		.84	00	
Jacksonville, Fla.....	62	0		.70	.60	
Key West, Fla.....	73	0		.24	.50	
<b>Gulf States:</b>						
Atlanta, Ga.....	54	0		1.32	.10	
Pensacola, Fla.....	62	0		1.22	.40	
Mobile, Ala.....	61	13		1.76	.60	
Montgomery, Ala.....	59	12		1.36	1.20	
Vicksburg, Miss.....	60	4		1.47		1.10
New Orleans, La.....	64	0		1.33		.30
Shreveport, La.....	61		28	1.08		.10
Fort Smith, Ark.....	54		14	.69		.10
Little Rock, Ark.....	56		14	1.03	.20	
Palestine, Tex.....	61		42	.98	.30	
Galveston, Tex.....	64		28	.70	00	
San Antonio, Tex.....	64		14	.56	00	
Corpus Christi, Tex.....	66		14	.35	.70	
Brownsville, Tex.....	70	0		.35		.30
Rio Grande City, Tex.....	72	14		.28	00	
<b>Ohio Valley and Tennessee:</b>						
Memphis, Tenn.....	55	0		1.26		.20
Nashville, Tenn.....	51	0		1.18	.40	
Chattanooga, Tenn.....	53	0		1.38	.30	
Knoxville, Tenn.....	50	0		1.26	.40	
Louisville, Ky.....	48	0		.96	1.30	
Indianapolis, Ind.....	43	0		.88	1.50	
Cincinnati, Ohio.....	45	0		.77	1.20	
Columbus, Ohio.....	41	0		.70	.30	
Pittsburgh, Pa.....	42	0		.67		.30
<b>Lake Region:</b>						
Oswego, N. Y.....	32	14		.60	.40	
Rochester, N. Y.....	33	14		.70	.40	
Buffalo, N. Y.....	32	23		.59		.30
Erie, Pa.....	35	0		.63		.20
Cleveland, Ohio.....	36	0		.63		.40
Sandusky, Ohio.....	37	0		.56		.20
Toledo, Ohio.....	37	0		.49		.40
Detroit, Mich.....	36	0		.54		.50
Port Huron, Mich.....	31	14		.63		.60
Alpena, Mich.....	26	23		.47		.33
Marquette, Mich.....	25	14		.35	.40	
Grand Haven, Mich.....	34	14		.56		.40
Milwaukee, Wis.....	33	14		.56	.20	
Chicago, Ill.....	35	0		.60		.10
Duluth, Minn.....	27		14	.35	.20	
<b>Upper Mississippi Valley:</b>						
St. Paul, Minn.....	33	14		.35		.30
La Crosse, Wis.....	35	0		.38		.20
Dubuque, Iowa.....	37		14	.56	.10	
Davenport, Iowa.....	38		14	.49	.10	
Des Moines, Iowa.....	39		14	.34	.40	
Keokuk, Iowa.....	41		28	.49	.20	
Springfield, Ill.....	43	28		.55	.40	
Cairo, Ill.....	50		14	.84	.20	
St. Louis, Mo.....	47		21	.70	00	

Table of temperature and rainfall, week ended March 27, 1891—Continued.

Locality.	Mean temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
<b>Missouri Valley:</b>						
Springfield, Mo.....	48		14	.77		.40
Kansas City, Mo.....	45		42	.49	.40	
Concordia, Kans.....	43		28	.51	1.80	
Omaha, Nebr.....	40		28	.42	.00	
Valentine, Nebr.....	37		28	.28		.10
Huron, S. D.....	34		14	.14		.10
Sully, Fort, S. D.....	36	0		.15		.10
<b>Extreme Northwest:</b>						
Moorhead, Minn.....	25		14	.18	.60	
Bismarck, N. D.....	29		28	.19	.58	
Buford, Fort, N. D.....	30	14		.12		.10
<b>Rocky Mountain Slope:</b>						
Assiniboine, Fort, Mont.....	34	0		.14		.10
Helena, Mont.....	37		14	.14	.10	
Custer, Fort, Mont.....	38	14		.14		.10
Salt Lake City, Utah.....	44		14	.44	.60	
Cheyenne, Wyo.....	37		42	.37	.60	
North Platte, Nebr.....	40		42	.14	.50	
Denver, Colo.....	42		70	.26	.60	
Montrose, Colo.....	43		28	.12	.50	
Pueblo, Colo.....	44		28	.16	.70	
Dodge City, Kans.....	46		84	.21	2.40	
Sill, Fort, Ind. T.....	55		28	.35	1.20	
Santa Fé, N. Mex.....	42		14	.20	.20	
<b>Pacific Coast:</b>						
Olympia, Wash.....	46		14	1.03		.70
Portland, Oreg.....	50		14	1.16		.20
Roseburg, Oreg.....	50		14	.70	.40	
Red Bluff, Cal.....	57		14	.76		.10
Sacramento, Cal.....	57	0		.70		.50
San Francisco, Cal.....	57		14	.70		.50
Los Angeles, Cal.....	59		0	.58		.20
San Diego, Cal.....	58		0	.28		.30
Yuma, Ariz.....	67		14	.00		

## FOREIGN.

(Reports received through the Department of State and other channels.)

*Sanitary Commission at Constantinople—Report of U. S. Commissioner—  
Cessation of Cholera in Asiatic Turkey—Report No. 18.*

The news received by the sanitary authorities from the different provinces of the Empire is good. Cholera has totally disappeared. It is only by way of precaution that ships arriving at Beirut from the localities where previously cholera was raging undergo a medical visit.

In the capital besides smallpox, there is a little epidemic of mumps and the diseases peculiar to the season. There are a few cases of puerperal fever.

The number of deaths registered for the last month of January is 1,218. In the same month of last year (1890) it was 1,602. This large number was attributed to the epidemic of influenza.

I am glad to notice that the epizooty, which was raging at Kuraitepi and Apair near Trebizond, has totally disappeared.

S. C. ZAVITZIANO.

CONSTANTINOPLE, *February 26, 1891.*

AUSTRALIA—*Brisbane.*—Month of December, 1890. Population, 73,649. Total deaths, 93, including phthisis, 10; enteric fever, 4; scarlet fever, 2; and whooping cough, 2.

BRAZIL—*Rio de Janeiro—Yellow fever, etc.*—Week ended February 7, 1891. Population, 450,000. Total deaths, 330, including yellow fever, 60; phthisis pulmonalis, 26; enteric fever, 6; pernicious fever, 7; and smallpox, 7.

Week ended February 14, 1891. Total deaths, 354, including yellow fever, 63; phthisis pulmonalis, 43; enteric fever, 1; pernicious fever, 11; typhus fever, 4; and smallpox, 8.

CEYLON.—The following mortality reports are extracted from the *Ceylon Government Gazette*, transmitted through the State Department to this Bureau by the United States consul at Colombo:

Quarter ended June 13, 1890. The deaths registered in this quarter numbered 17,693, of which 4,905 were registered in April, 6,540 in May, and 6,428 in June. The death rate for the quarter was 24.6 per 1,000 of the population. The deaths included phthisis, 504; enteric fever, 826; influenza, 53; smallpox, 22; varicella, 1; measles, 43; and whooping cough, 18.

Quarter ended September 30, 1890. Total deaths, 17,099, including phthisis, 569; enteric fever, 753; smallpox, 16; influenza, 14; diphtheria, 5; measles, 47; varicella, 7; and whooping cough, 5. Six thousand one hundred and four of these deaths occurred in July, 5,604 in August, and 5,391 in September. The death rate for the quarter was 23.6 per 1,000 of the population.

CHINA—*Hong-Kong*.—Month of December, 1890. Total deaths, 368, including phthisis pulmonalis 52.

Month of January, 1891. Total deaths, 439, including phthisis pulmonalis 41.

CUBA—*Havana*.—The United States sanitary inspector sends the following weekly report, dated March 24, 1891:

Week ended March 19, 1891. Total deaths 134, including yellow fever, 1 (4 new cases); enteric fever, 2; so-called pernicious fever, 2; and diphtheria, 2.

EGYPT.—Week ended February 26, 1891. The towns in upper and lower Egypt, including Gizeh and the Suez Canal, show a total of 848 deaths, including phthisis pulmonalis, 50; enteric fever, 27; diphtheria and croup, 1; measles, 3; whooping cough, 4; and smallpox, 2.

FRANCE—*Marseilles*.—Month of December, 1890. Population, 375,878. Total deaths, 1,126, including smallpox, 84; enteric fever, 17; scarlet fever, 2; diphtheria and croup, 115; measles, 11; and whooping cough, 3.

*Rouen*.—Month of January, 1891. Population, 106,496. Total deaths, 413, including phthisis pulmonalis, 53; diphtheria, 7; and measles, 4.

GREAT BRITAIN—*England and Wales*.—The deaths registered in 28 great towns of England and Wales during the week ended March 14 corresponded to an annual rate of 22.1 a thousand of the aggregate population, which is estimated at 10,010,426. The lowest rate was recorded in Norwich, viz, 15.7; and the highest in Blackburn, viz, 31.1 a thousand. Diphtheria caused 2 deaths each in Norwich, Manchester, Salford, and Newcastle-upon-Tyne.

*London*.—One thousand seven hundred and eighty-three deaths were registered during the week, including measles, 32; scarlet fever, 10; diphtheria, 18; whooping cough, 55; enteric fever, 9; and diarrhoea and dysentery, 15. The deaths from all causes corresponded to an annual rate of 20.7 a thousand. Diseases of the respiratory organs caused 581 deaths. In greater London 2,262 deaths were registered, corresponding to an annual rate of 20.1 a thousand of the population. In the "outer ring" the deaths included whooping cough 14 and diphtheria 10.

*Newcastle-upon-Tyne*.—Two weeks ended March 7, 1891. Population, 163,000. Total deaths from all causes not reported. Diphtheria caused 3 deaths.

*Sunderland*.—Two weeks ended February 7, 1891. Population, 138,859. Total deaths, 108, including scarlet fever 21.

Two weeks ended February 21, 1891. Total deaths, 109, including scarlet fever 3 and diphtheria 1.

*Ireland.*—The average annual death rate, represented by the deaths registered during the week ended March 14, in the 16 principal town districts of Ireland, was 26.9 a thousand of the population. The lowest rate was recorded in Drogheda, viz, 8.5, and the highest in Lurgan, viz, 46.2 a thousand. In Dublin and suburbs 190 deaths were registered, including enteric fever, 4; diphtheria, 1; and whooping cough, 3.

*INDIA—Calcutta.*—Quarter ended September 30, 1890. Total deaths, 2,449, including "fevers," 921; cholera, 75; and smallpox, 13.

*NEW ZEALAND.*—Month of December, 1890. Reports to the registrar-general from the 4 principal towns, having an aggregate population of 105,619, show a total of 98 deaths, including phthisis 8 and enteric fever 2.

*SWITZERLAND—Lucerne.*—Month of February, 1891. Population, 20,600. Total deaths, 34, including scarlet fever 4 and diphtheria 13.

*TURKEY IN ASIA—Syria—Removal of quarantine restrictions against cholera.*—Under date of February 18, 1891, the consul at Beirut writes as follows:

I have the honor to inform the Department that the cholera has entirely disappeared from the various provinces in Syria, and that the quarantine restrictions along the Syrian coast have this day been removed.

*UNITED STATES OF COLOMBIA—Bogota—Measles and enteric fever.*—The United States consul sends the following report, dated February 7, 1891:

I have the honor to report that the mortality of this city for month ending January last has been unprecedentedly large, due to an epidemic of measles and typhoid fever prevailing, brought about, it is alleged, by bad sanitary condition of the city and want of rain.

Bogota has an estimated population of about one hundred thousand inhabitants. There were five hundred and eighty-one deaths for month ending January 31 last. The majority of deaths were from measles, its complications, and typhoid fever.

*WEST INDIES—Martinique—Saint Pierre.*—Months of January and February, 1891. Population, 36,420. Total deaths, 189. No deaths reported from contagious diseases.

MORTALITY TABLE, FOREIGN CITIES.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—										
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.		
London.....	Feb. 28.....	5,877,390	2,042					6	11	32				62
London.....	Mar. 7.....	5,877,390	2,506			1		4	16	35				78
Paris.....	Mar. 7.....	2,260,945	1,256			6		8	9	46				7
Vienna.....	Feb. 28.....	840,000	425					1	3	6				3
Liverpool.....	Mar. 7.....	620,443	254						2	7				
Hamburg.....	Feb. 28.....	570,534	270					3	1	3				
Glasgow.....	Mar. 7.....	545,678	290					2	7	1				
Buda Pesth.....	Mar. 12.....	507,000				1			3	7				
Warsaw.....	Feb. 28.....	455,852	203			2		3	2	6				
Rome.....	Mar. 11.....	417,392	219					2	2	11		1		
Munich.....	Feb. 28.....	348,000	180					2	1	4				
Odessa.....	Feb. 14.....	295,000	149						7	4		2		
Odessa.....	Feb. 21.....	295,000	127					1	1	2		1		2
Odessa.....	Feb. 28.....	295,000	144						6	3		3		
Cologne.....	Feb. 21.....	281,699	115							8		2		5
Cologne.....	Feb. 28.....	281,699	125			1			1	3		2		5
Dresden.....	Feb. 28.....	276,085	92					1	1	5				
Edinburgh.....	Mar. 7.....	275,436	115					3		3				
Lisbon.....	Nov. 22.....	242,297	204					7					2	
Lisbon.....	Nov. 29.....	242,297	177					5						
Antwerp.....	Feb. 28.....	238,788	108					6		1				
Antwerp.....	Mar. 7.....	238,788	112			1		2						
Belfast.....	Feb. 28.....	234,822	124					5		2				
Belfast.....	Mar. 7.....	234,822	109					4		1				
Prague.....	Feb. 28.....	183,085	132			2		1		3				
Genoa.....	Mar. 7.....	180,559	132				2			1				
Frankfort-on-the-Main.....	Feb. 28.....	179,850	86						1	10				
Hanover.....	Feb. 28.....	168,500	72									6		
Konigsberg.....	Mar. 1.....	161,600	42							2				
Trieste.....	Feb. 28.....	158,054	114							1				
Venice.....	Feb. 28.....	158,019	116			1		1	5					
Venice.....	Mar. 7.....	158,019	119											
Ghent.....	Feb. 21.....	152,395	68						2	1		1		
Ghent.....	Feb. 28.....	152,395	72						1	1				
Christiania.....	Mar. 7.....	150,000	51			1	1							
Nuremberg.....	Feb. 21.....	142,523	87							2				
Stuttgart.....	Mar. 7.....	139,659	38							3				
Elberfeld.....	Mar. 7.....	125,830	48									2		3
Bremen.....	Feb. 28.....	125,000	58					1						
Danzig.....	Feb. 28.....	119,000	62							4				
Barmen.....	Mar. 7.....	116,192	40							1				2
Stettin.....	Feb. 28.....	116,000	61					1		1				
Aix-la-Chapelle.....	Mar. 1.....	111,954	51							1				
Crefeld.....	Mar. 7.....	108,000	87											
Leghorn.....	Mar. 8.....	103,854	66							4				
Rheims.....	Mar. 7.....	97,903	50						1	2				
Rheims.....	Mar. 14.....	97,903	66						1					
Zurich.....	Feb. 28.....	91,323	25							2				
Zurich.....	Mar. 7.....	91,323	37						1	9				3
Leith.....	Mar. 7.....	80,736	21				3		1	8		1		13
Mannheim.....	Mar. 7.....	80,000	28											
Mayence.....	Feb. 28.....	73,271	34							2				
Beirut.....	Feb. 28.....	61,000								3				
Curacoa.....	Mar. 7.....	25,000	5											
Vera Cruz.....	Mar. 12.....	20,800	21											
Matamoras.....	Mar. 17.....	16,000	9											
Hamilton, Bermuda.....	Mar. 19.....	15,700	1											
Tuxpan.....	Mar. 7.....	9,000	7											
La Guayra.....	Mar. 7.....	7,641	5											
Coaticook.....	Mar. 14.....	3,800	1											
Prescott.....	Mar. 13.....	2,988	2											

OFFICIAL :

JOHN B. HAMILTON,

Supervising Surgeon-General, Marine-Hospital Service.