

# ABSTRACT OF SANITARY REPORTS.

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## UNITED STATES.

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

WASHINGTON, D. C., March 4, 1891.

SIR: I have the honor to submit the following report on the progress of the experiments with tuberculine:

Since my last communication the case of lupus has received three injections, the last two being, respectively, of .004 and .005 gram. It was very noticeable with these injections that while the general "reaction" was not well marked ( $38^{\circ}$  to  $38.4^{\circ}$  C.) the local symptoms were very apparent. In both instances there was increased redness of the diseased area, the surface was glistening, and the surrounding tissues flushed, tense, and with a pulsating feeling. To-day at least one-half of the ulcer has skinned over; the remainder is granulating in a perfectly healthy manner.

As to other patients, there is no definite change of condition to be reported during the past week. In two cases injected yesterday with .007 gram the "reaction" only reached  $37.5^{\circ}$  C., and in both the cough has almost entirely abated, night-sweats have ceased, and the general condition seems improved. In these cases the sputum remains free from bacilli.

Very respectfully, your obedient servant,

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

To the SUPERVISING SURGEON-GENERAL.

### *Report from Berlin upon the action of the Koch lymph.*

P. A. Surgeon J. J. Kinyoun, under detail from this Bureau to study the methods of Professor Koch in the Hygienic Institute of the Berlin University, transmits the following from Berlin, dated February 14:

So far no definite conclusion can be reached in regard to the *curative* properties of the Koch lymph, but certainly there has been a marked improvement in some of the cases. This has not been the rule in all. I think it safe to assert that the reason why so disastrous results have ensued in quite a number of cases has been rather the fault of the diagnostician than because of the remedy used.

So far I have not been convinced that death has been caused by the lymph injections when used in the first stage of the disease, but, at the same time, it can not be denied that disastrous results have followed its use when administered in the second and third stages. In regard to the histological changes occurring as the result of the treatment, I hope to furnish you an account at an early date.

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

MASSACHUSETTS—*Worcester*.—Month of January, 1891. Population, 84,655. Total deaths, 112, including phthisis pulmonalis 17.

MICHIGAN.—Week ended February 21, 1891. Reports to the State board of health, Lansing, from 53 observers, indicate that cerebro-spinal meningitis, cholera infantum, inflammation of brain, typhoid fever, membranous croup, measles, cholera morbus, pneumonia, dysentery, and inflammation of bowels increased, and that whooping cough, diphtheria, and puerperal fever decreased in area of prevalence.

Diphtheria was reported present during the week at 28 places, scarlet fever at 46 places, enteric fever at 19 places, and measles at 32 places.

MISSOURI—*St. Louis*.—Month of January, 1891. Population, 460,357. Total deaths, 725, including phthisis pulmonalis, 73; enteric fever, 5; scarlet fever, 16; diphtheria, 20; croup, 10; and whooping cough, 4.

NEW YORK.—Month of January, 1891. Reports to the State board of health from 8 districts, including New York City, Brooklyn, and 137 other cities and towns, show a total of 5,724 deaths, including phthisis pulmonalis, 776; enteric fever, 30; scarlet fever, 147; croup and diphtheria, 342; measles, 130; and whooping cough, 80.

The reported mortality for January is about 800 greater than that of the preceding month, the increase being in the Maritime, Hudson Valley, and Lake Ontario and Western Districts. The mortality is less by 3,000 than that of January, 1890, but there is no basis of comparison between these months, as about 4,000 deaths occurred from epidemic influenza a year ago. The proportion of deaths from all zymotic diseases is a little less than in December and less than the average for January for the past six years. There were more deaths from scarlet fever, measles, and whooping cough than in December. Diphtheria and typhoid fever caused fewer deaths; from the latter, however, there has been an epidemic prevalence during the month in Albany, Cohoes, and Schenectady. Smallpox appeared in Jamestown, where a number of cases have occurred, the original case having come there from Newark, N. J.; one death has occurred. Cerebro-spinal fever shows an increase of 19 deaths over last month. Acute respiratory diseases caused the same number of deaths as in December; from consumption there has been an increase of nearly 200 deaths. There is also a very considerable increase in the reported mortality from diseases of the urinary and circulatory systems, and deaths from old age and unclassified causes are likewise increased. A number of deaths have been returned from epidemic influenza from various parts of the State, and it is believed to have shown itself, though under conditions varying from those of a



Table of temperature and rainfall, week ended February 25, 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.....	24	36	.....	1.05	.....	.07
Portland, Me.....	26	30	.....	.91	.14	.....
Boston, Mass.....	30	48	.....	.91	.28	.....
Block Island, R. I.....	32	35	.....	1.16	.32	.....
<b>Middle Atlantic States:</b>						
Albany, N. Y.....	28	40	.....	.65	.21	.....
New York, N. Y.....	33	44	.....	.98	.57	.....
Philadelphia, Pa.....	36	34	.....	.78	.77	.....
Atlantic City, N. J.....	35	33	.....	.84	1.20	.....
Baltimore, Md.....	38	14	.....	.91	1.46	.....
Washington, D. C.....	37	30	.....	.84	.86	.....
Lynchburg, Va.....	42	10	.....	.84	1.86	.....
Norfolk, Va.....	45	35	.....	.94	1.97	.....
<b>South Atlantic States:</b>						
Charlotte, N. C.....	47	.....	6	1.05	.92	.....
Wilmington, N. C.....	52	17	.....	.84	.....	.55
Charleston, S. C.....	54	13	.....	.84	.....	.46
Augusta, Ga.....	53	4	.....	.96	.....	.35
Savannah, Ga.....	57	.....	2	.77	.....	.22
Jacksonville, Fla.....	61	4	.....	.77	.....	.56
Key West, Fla.....	72	.....	15	.38	.20	.....
<b>Gulf States:</b>						
Atlanta, Ga.....	49	.....	17	1.28	.96	.....
Pensacola, Fla.....	58	.....	13	1.05	.26	.....
Mobile, Ala.....	57	.....	12	1.22	.40	.....
Montgomery, Ala.....	55	.....	16	1.37	.74	.....
Vicksburg, Miss.....	55	2	.....	1.22	.....	.94
New Orleans, La.....	60	.....	9	1.09	.....	.22
Shreveport, La.....	54	.....	4	1.13	.....	1.12
Fort Smith, Ark.....	46	.....	16	.83	.....	.82
Little Rock, Ark.....	49	.....	7	1.47	.....	1.23
Palestine, Tex.....	55	6	.....	.93	.....	.93
Galveston, Tex.....	59	6	.....	.70	.....	.70
San Antonio, Tex.....	58	12	.....	.53	.....	.53
Corpus Christi, Tex.....	61	23	.....	.49	.....	.49
Brownsville, Tex.....	65	0	0	.41	.....	.41
Rio Grande City, Tex.....	66	14	.....	.28	.....	.28
<b>Ohio Valley and Tennessee:</b>						
Memphis, Tenn.....	48	10	.....	1.33	.....	.91
Nashville, Tenn.....	45	.....	14	1.23	.63	.....
Chattanooga, Tenn.....	48	.....	12	1.37	.76	.....
Knoxville, Tenn.....	45	.....	5	1.32	1.51	.....
Louisville, Ky.....	41	3	.....	1.10	.10	.....
Indianapolis, Ind.....	34	8	.....	.88	.....	.31
Cincinnati, Ohio.....	38	11	.....	.93	.....	.20
Columbus, Ohio.....	34	20	.....	.89	.....	.17
Pittsburgh, Pa.....	35	31	.....	.63	.....	.08
<b>Lake Region:</b>						
Oswego, N. Y.....	25	51	.....	.63	.05	.....
Rochester, N. Y.....	26	58	.....	.63	.....	.15
Buffalo, N. Y.....	25	49	.....	.63	.14	.....
Erie, Pa.....	29	33	.....	.83	.....	.19
Cleveland, Ohio.....	29	38	.....	.70	.49	.....
Sandusky, Ohio.....	30	41	.....	.74	.....	.04
Toledo, Ohio.....	30	22	.....	.49	.....	.28
Detroit, Mich.....	29	17	.....	.56	.....	.14
Port Huron, Mich.....	24	44	.....	.63	.....	.07
Alpena, Mich.....	19	40	.....	.55	.22	.....
Marquette, Mich.....	17	2	.....	.39	.65	.....
Grand Haven, Mich.....	26	17	.....	.56	.20	.....
Milwaukee, Wis.....	25	4	.....	.49	.....	.03
Chicago, Ill.....	29	2	.....	.56	.....	.15
Duluth, Minn.....	16	.....	21	.28	.17	.....
<b>Upper Mississippi Valley:</b>						
St. Paul, Minn.....	19	.....	59	.26	.....	.13
La Crosse, Wis.....	22	.....	35	.28	.21	.....
Dubuque, Iowa.....	25	.....	21	.42	.01	.....
Davenport, Iowa.....	27	.....	11	.44	.....	.23
Des Moines, Iowa.....	26	.....	25	.33	.....	.07
Keokuk, Iowa.....	31	.....	1	.49	.....	.49
Springfield, Ill.....	34	.....	5	.88	.....	.82
Cairo, Ill.....	50	.....	63	1.04	.....	.56
St. Louis, Mo.....	38	.....	3	.74	.....	.15

Table of temperature and rainfall, week ended February 25, 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.....	40		14	.82		.56
Kansas City, Mo.....	35		27	.42		.41
Concordia, Kans.....	32		31	.22		.20
Omaha, Nebr.....	28		72	.21	.18	
Valentine, Nebr.....	26		142	.14		.06
Huron, Dak.....	17		102	.14		.10
<b>Extreme Northwest:</b>						
Moorhead, Minn.....	9		74	.21		.09
Bismarck, Dak.....	13		111	.21		.17
Buford, Fort, Dak.....	13		133	.10		.09
<b>Rocky Mountain Slope:</b>						
Assinniboine, Fort, Mont.....	19		225	.14		.09
Helena, Mont.....	26		196	.14	.70	
Custer, Fort, Mont.....	25		196	.07	0	0
Rapid City, Dak.....	32		191	.21		.12
Salt Lake City, Utah.....	36		3	.35	.01	
Cheyenne, Wyo.....	30		39	.08	.20	
North Platte, Nebr.....	29		76	.13	.04	
Denver, Colo.....	35		17	.14		.08
Montrose, Colo.....	34		28	.14		.10
Pueblo, Colo.....	37	14		.14		.10
Dodge City, Kans.....	35	9		.14		.10
Abilene, Tex.....	51	24		.28		.28
Sill, Fort, Ind. T.....	45	28		.35		.30
El Paso, Tex.....	52		14	.14		.10
Santa Fé, N. Mex.....	35		23	.14	.48	
<b>Pacific Coast:</b>						
Spokane Falls, Wash.....	32		56	.45	.50	
Olympia, Wash.....	41		42	1.72		.80
Portland, Oreg.....	44		56	1.65	.30	
Roseburg, Oreg.....	45		56	1.05	2.80	
Red Bluff, Cal.....	51		56	.79	2.50	
Sacramento, Cal.....	52		28	.70	2.40	
San Francisco, Cal.....	53		14	.86	1.10	
Los Angeles, Cal.....	56		14	.81	3.60	
San Diego, Cal.....	56		14	.53	2.10	
Yuma, Ariz.....	61		28	.07	1.20	

## FOREIGN.

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

**BRAZIL—Bahia.**—Under date of January 14, 1891, the United States consul reports the health of the city and the adjacent country as good. No disease prevalent either in the city or country.

*Para—Yellow fever, etc.*—Month of January, 1891. Total deaths, 168, including yellow fever 22 and phthisis pulmonalis 9. The United States consul writes as follows: "Yellow fever has been very prevalent among recently arrived persons during this past month of January, and there have been many cases already recovered or convalescent not mentioned in the above statement."

**DUTCH GUIANA—Parimaribo.**—Month of December, 1890. Population, 28,221. Total deaths, 71.

**EGYPT.**—Week ended January 22, 1891. The towns in upper and lower Egypt, including Gizeh and the Suez Canal, show a total of 821 deaths, including phthisis pulmonalis, 58; enteric fever, 20; smallpox, 1; diphtheria and croup, 1; measles, 1; and whooping cough, 4.

Week ended February 5, 1891. Total deaths, 845, including phthisis pulmonalis, 56; enteric fever, 20; diphtheria and croup, 2; smallpox, 2; and measles, 2.

**GREAT BRITAIN—England and Wales.**—The deaths registered in 28 great towns of England and Wales during the week ended February 14 corresponded to an annual rate of 19.9 a thousand of the aggregate population, which is estimated at 10,010,426. The lowest rate was recorded in Leicester, viz, 14.2, and the highest in Preston, viz, 28.5 a thousand. Diphtheria caused 2 deaths in Norwich, 3 in Manchester, 3 in Salford, 4 in Sheffield, and 2 in Birkenhead.

*London.*—One thousand six hundred and seventy-three deaths were registered during the week, including measles, 20; scarlet fever, 9; diphtheria, 29; whooping cough, 39; smallpox, 1; typhus fever, 1; enteric fever, 7; and diarrhoea and dysentery, 13. The deaths from all causes corresponded to an annual rate of 19.0 a thousand. Diseases of the respiratory organs caused 484 deaths. In greater London 2,089 deaths were registered, corresponding to an annual rate of 18.5 a thousand of the population. In the "outer ring" the deaths included measles, 4; whooping cough, 9; and diphtheria, 11.

*Newcastle-upon-Tyne.*—Two weeks ended February 14, 1891. Population, 163,000. Total deaths from all causes not reported. Diphtheria caused 1 death and scarlet fever 4.

*Sunderland*.—Two weeks ended January 24, 1891. Population, 138,859. Total deaths, 118, including enteric fever, 2; scarlet fever, 1; and diphtheria, 1.

*Ireland*.—The average annual death rate, represented by the deaths registered during the week ended February 14, in the 16 principal town districts of Ireland, was 26.0 a thousand of the population. The lowest rate was recorded in Lisburn, viz, 4.8, and the highest in Dundalk, viz, 52.4 a thousand. In Dublin and suburbs 182 deaths were registered, including enteric fever 2 and diphtheria 1.

*Scotland*.—The deaths registered in eight principal towns during the week ended February 14 corresponded to an annual rate of 21.4 a thousand of the population, which is estimated at 1,345,563. The lowest mortality was recorded in Greenock, viz, 11.6, and the highest in Glasgow, viz, 26.6 a thousand. The aggregate number of deaths registered from all causes was 561, including measles, 10; scarlet fever, 6; diphtheria, 4; whooping cough, 13; fever, 6; and diarrhoea, 11.

INDIA—*Calcutta—Cholera*.—Under date of January 21, 1891, the United States consul-general reports 132 deaths from cholera for the four weeks ended January 3, 1891.

*Singapore*.—Month of December, 1890. Total deaths, 474, including fevers 153 and smallpox 1.

JAMAICA—*Kingston*.—Month of January, 1891. Total deaths, 88, including 16 from phthisis.

MEXICO—*Paso del Norte*.—Two weeks ended February 15, 1891. Population, 10,000. Total deaths, 20, including 1 from diphtheria.

*New Zealand*.—Month of November, 1890. Reports to the registrar-general from the 4 principal towns, having an aggregate population of 105,619, show a total of 76 deaths, including phthisis pulmonalis 10.

TURKEY—*Constantinople—Smallpox*.—Month of December, 1890. Dr. Spiridion Zavitziano reports 68 deaths from smallpox during the month.

#### *Cornil on toxic albumins.*

[Abstract from *La Rivista Internazionale d'Igiene*, December, 1890.]

The toxic action of pathogenic microbes does not depend solely on the microbes themselves, nor on the ptomaines. These alkaloids undoubtedly exert an influence on the genesis of the morbid symptoms of infectious diseases, but they do not produce the types of the diseases from which they are derived, and they can not be taken up by the system through inoculation. There exist other and intermediate products between the microbes and the animal tissues. These products are chemical agents, possessing great toxic energy. They represent the properties of the soluble albumins or their immediate derivations. They may be obtained in a pure state by precipitation with sulphate

of ammonia at 30 C. and elimination of the salt with dialysis or slightly-acidulated alcohol. After cooling and settling, the liquid is filtered and a second precipitation obtained and subjected to dialysis and desiccation in vacuum at 40 C. A light, white amorphous substance is obtained, possessing all the reactions of soluble albumins.

In general these toxic albumins produce experimentally the lesions and general disturbances of the disease from which they are derived. They also insure immunity from a second attack. In weak doses they become reliable vaccine agents and protect the organism from subsequent infection by the bacilli or the toxic albumins. They have been obtained and experimented with as follows:

1. Diphtheria.—The toxic albumin of diphtheria is pathogenic and produces local lesions, apart from the false membrane, and general symptoms analogous with those of diphtheria. The vaccine virus has not yet been found.

2. *Staphylococcus piogenes aureus*.—The toxic albumin obtained from the culture produces at the point of inoculation intense inflammation with infiltration. The pus does not contain microbes.

3. Anthrax.—The toxic albumin reproduces the character of the disease and in weak doses possesses vaccine properties.

4. Typhoid fever.—A toxic albumin which causes inflammation at the inoculated point, followed by the death of the animal experimented on. Autopsy shows a slight adipose degeneration of the liver, but without intestinal lesions.

5. Tetanus.—A toxic albumin which causes death following on cramps and paralysis. It has no vaccine properties.

The discovery of these toxic albumins in connection with the ptomaines is an interesting fact. These substances, if they have not pathogenic properties identical with those of the entire microbial culture, possess an indisputable pathogenic importance and probably concur in a natural and therapeutic immunity from the diseases from which they are derived.



## 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.
Paris	Feb. 7	2,260,945	1,105			1		14	2	39	19	6
Vienna	Jan. 24	840,000	392			4		1	5	15	7	3
Vienna	Jan. 31	840,000	408					2	4	11	6	1
Vienna	Feb. 7	840,000	391			5			2	14	9	2
Liverpool	Feb. 7	620,443	227			9		1	4	1		
Hamburg	Jan. 24	570,534	220					2	2	4		
Hamburg	Jan. 31	570,534	255					2	2	7		
Glasgow	Feb. 7	545,678	259					1	6	4		
Glasgow	Feb. 14	545,678	272					2	3	3		
Buda Pesth	Feb. 12	507,000	21				2			14		
Brussels	Jan. 31	469,459	199		15			5				
Warsaw	Jan. 31	455,852	245		6				7	9		
Warsaw	Feb. 7	455,852	206		3			5	5	9		
Rome	Feb. 7	421,102	197					3		7	1	
Lyons	Jan. 31	401,930	234					1		3		
Leipzig	Feb. 7	360,671	136						2	3		
Munich	Jan. 31	345,000	146					1		8		
Copenhagen	Jan. 24	312,387	154					1	2	9		
Copenhagen	Jan. 31	312,387	130						3	7		
Cologne	Jan. 31	281,112	136				2		1	4	2	4
Cologne	Feb. 7	281,112	130							8		3
Dresden	Jan. 24	276,085	91							1		
Dresden	Jan. 31	276,085	77							1		
Dresden	Feb. 7	276,085	82						1	5		
Edinburgh	Jan. 31	275,436	130					1	2	1	1	
Edinburgh	Feb. 7	275,436	105					2		2		4
Barcelona	Feb. 6	272,000	243			1		9		15		
Palermo	Jan. 31	250,000	182					1		1		
Antwerp	Feb. 14	238,788	96					1				
Bristol	Feb. 7	235,171	103					2	2			
Rotterdam	Feb. 7	209,137	123									
Pernambuco	Jan. 6	200,000	56			11						
Pernambuco	Jan. 13	200,000	76			17						
Pernambuco	Jan. 20	200,000	56			2						
Pernambuco	Jan. 27	200,000	53			5						
Prague	Jan. 31	188,992	125			2		5	2	4		
Prague	Feb. 7	188,992	120			1		1	1	3		
Florence	Feb. 7	182,534	144					14				
Genoa	Feb. 7	180,599	102				1			1		
Genoa	Feb. 14	180,599	98			1	3		1	2		
Frankfort-on-the-Main	Jan. 31	179,850	56							10		
Frankfort-on-the-Main	Feb. 7	179,850	50					1		5		
Hanover	Jan. 31	165,499	52							4		
Hanover	Feb. 7	165,499	53							3		
Konigsberg	Feb. 1	161,200						1	2	2		
Trieste	Jan. 31	158,054	98							3		
Trieste	Feb. 7	158,054	103							2		
Ghent	Jan. 31	152,395	81								1	
Christiania	Jan. 31	143,300	53						3	6		
Christiania	Feb. 7	143,300	54							4		
Nuremberg	Jan. 24	142,523	62							2		
Nuremberg	Jan. 31	142,523	64						2	5		
Stuttgart	Feb. 7	139,659	48							5		
Stuttgart	Feb. 14	139,659	46							4		
Funchal	Jan. 31	133,250	17			2						
Bremen	Jan. 31	125,000	56									
Bremen	Feb. 7	125,000	37							1		
Cardiff	Feb. 7	121,477	48									
Danzig	Jan. 31	119,000	60					1		2		
Stettin	Jan. 31	116,000	69					2		4		
Havre	Feb. 7	112,074	67					5				
Aix-la-Chapelle	Feb. 1	111,679	49									
Aix-la-Chapelle	Feb. 8	111,679	38									
Aix-la-Chapelle	Feb. 15	111,679	47									
Catania	Feb. 1	109,000	61						2	3		
Catania	Feb. 8	109,000	59					1	3	1		
Crefeld	Feb. 7	108,000	83							1		
Gothenburg	Jan. 31	106,246	27						1			
Leghorn	Feb. 8	104,021	81						2			
Rheims	Feb. 14	97,903	52					1				
Zurich	Jan. 31	91,323	27						6	8		8
Zurich	Feb. 7	91,323	39				1			12	2	7

## MORTALITY TABLE, FOREIGN CITIES—Continued.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—							
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
Leith .....	Jan. 31.....	80,736	36	.....	.....	.....	.....	.....	.....	.....	.....
Leith .....	Feb. 7.....	80,736	27	.....	.....	.....	.....	1	.....	.....	.....
Mannheim .....	Jan. 31.....	80,000	24	.....	.....	.....	.....	.....	.....	.....	.....
Messina .....	Feb. 7.....	79,971	52	.....	.....	2	.....	.....	.....	5	.....
Mayence .....	Jan. 31.....	73,271	24	.....	.....	.....	.....	.....	.....	1	.....
Mayence .....	Feb. 7.....	73,271	33	.....	.....	.....	.....	1	.....	4	.....
Trapani .....	Jan. 31.....	43,095	9	.....	.....	.....	.....	.....	.....	.....	.....
Cienfuegos .....	Feb. 8.....	41,647	8	.....	.....	.....	.....	.....	.....	.....	.....
Cienfuegos .....	Feb. 15.....	41,647	15	.....	1	.....	.....	.....	.....	.....	.....
Marsala .....	Jan. 31.....	40,131	25	.....	.....	.....	.....	.....	.....	1	.....
Schiedam .....	Feb. 7.....	25,400	15	.....	.....	.....	.....	.....	.....	1	.....
Vera Cruz .....	Feb. 12.....	23,800	28	.....	1	.....	.....	.....	.....	.....	.....
Vera Cruz .....	Feb. 19.....	23,800	25	.....	.....	.....	.....	.....	.....	.....	.....
Girgenti .....	Jan. 31.....	23,547	16	.....	.....	.....	.....	.....	.....	.....	.....
Victoria .....	Feb. 7.....	20,000	7	.....	.....	.....	.....	.....	.....	.....	.....
Victoria .....	Feb. 14.....	20,000	10	.....	.....	.....	.....	5	.....	.....	.....
Licata .....	Jan. 31.....	19,000	12	.....	.....	.....	.....	.....	.....	3	.....
Kingston, Can .....	Feb. 20.....	18,264	1	.....	.....	.....	.....	.....	.....	.....	.....
Cartagena, Col .....	Jan. 24.....	16,000	13	.....	.....	.....	.....	.....	.....	.....	.....
Matamoras .....	Feb. 7.....	16,000	9	.....	.....	.....	.....	.....	.....	.....	.....
Matamoras .....	Feb. 14.....	16,000	8	.....	.....	.....	.....	.....	.....	.....	.....
Sagua la Grande .....	Feb. 7.....	15,605	10	.....	.....	.....	.....	.....	.....	.....	.....
Sagua la Grande .....	Feb. 14.....	15,605	11	.....	.....	.....	.....	.....	.....	.....	.....
Queenstown .....	Feb. 21.....	10,340	7	.....	.....	.....	.....	.....	.....	.....	.....
Guelph .....	Feb. 15.....	10,173	2	.....	.....	.....	.....	.....	.....	.....	.....
Guelph .....	Feb. 22.....	10,173	3	.....	.....	.....	.....	.....	.....	.....	.....
Tuxpan .....	Jan. 31.....	9,000	7	.....	.....	.....	.....	.....	.....	.....	.....
Tuxpau .....	Feb. 7.....	9,000	6	.....	.....	.....	.....	.....	.....	.....	.....
Chatham .....	Feb. 21.....	8,730	3	.....	.....	.....	.....	.....	.....	.....	.....
La Guayra .....	Jan. 31.....	7,641	7	.....	.....	.....	.....	.....	.....	.....	.....
La Guayra .....	Feb. 7.....	7,641	8	.....	.....	.....	.....	.....	.....	.....	.....
Sarnia .....	Feb. 21.....	6,200	2	.....	.....	.....	.....	.....	.....	.....	.....
St. Helena .....	Jan. 17.....	4,500	1	.....	.....	.....	.....	.....	.....	.....	.....
St. Helena .....	Jan. 24.....	4,500	2	.....	.....	.....	.....	.....	.....	.....	.....
Coaticook .....	Feb. 14.....	3,800	1	.....	.....	.....	.....	.....	.....	.....	.....
Clifton .....	Feb. 14.....	3,500	2	.....	.....	.....	.....	2	.....	.....	.....
Amherstburg .....	Feb. 14.....	3,100	4	.....	.....	.....	.....	.....	.....	.....	.....
Livingston .....	Feb. 17.....	3,000	2	.....	.....	.....	.....	.....	.....	.....	.....
Prescott .....	Feb. 12.....	2,988	3	.....	.....	.....	.....	.....	.....	.....	.....
Prescott .....	Feb. 19.....	2,988	3	.....	.....	.....	.....	.....	.....	.....	.....
Puntarenas .....	Jan. 10.....	2,200	2	.....	.....	.....	.....	.....	.....	.....	.....
Puntarenas .....	Jan. 17.....	2,200	3	.....	.....	.....	.....	.....	.....	.....	.....
Puntarenas .....	Jan. 24.....	2,200	3	.....	.....	.....	.....	.....	.....	.....	.....

OFFICIAL :

JOHN B. HAMILTON,

*Supervising Surgeon-General, Marine-Hospital Service.*