

the mesenteric glands, and liver was developed within a period varying from six to eight and one-third weeks. The spleen, omentum, kidneys, pleura and peritoneum were, on the contrary, never found affected, the part chiefly involved being the intestinal mucous membrane, the extent of this depending on the duration of the experiment and the richness of the tuberculous material in bacilli.

Falk had previously shown that the digestive juices, contrary in this respect to their action on the anthrax bacilli, have little or no effect on the tubercle bacilli, neither killing them nor even weakening them, and

Fischer has arrived at a similar conclusion. On the other hand, putrefaction has a most distinct effect on the tuberculous poison; on feeding the animals with putrefactive tuberculous material, either no changes at all were found, or they were slight and limited for the most part to the mesenteric glands and vermiform process, and as the number of the bacilli in such material was in no way diminished, the difference in the action could only be ascribed to a weakening of the pathogenic activity of the organisms, brought about by prolonged contact with putrefactive organic substances.

REPORTED MORTALITY FOR THE WEEK ENDING APRIL 3, 1886.

Cities.	Estimated Population.	Reported Deaths in each.	Deaths under Five Years.	Percentage of Deaths from				
				Infectious Diseases.	Consumption.	Whoop's Cough.	Diphtheria and Croup.	Typhoid Fever.
New York	1,439,039	726	257	13.72	14.26	13.08	3.64	1.82
Philadelphia	971,363	460	160	10.78	—	.22	4.40	1.32
Brooklyn	690,000	277	99	14.74	10.44	2.16	5.76	5.04
Chicago	630,000	—	—	—	—	—	—	—
Boston	390,406	183	53	8.15	17.05	.31	2.48	.62
Baltimore	417,220	198	78	10.71	16.83	.51	.51	—
St. Louis	400,000	—	—	—	—	—	—	—
Cincinnati	325,000	106	38	6.58	23.50	—	1.98	—
New Orleans	238,000	94	38	8.48	10.60	1.06	1.06	—
Buffalo	202,818	—	—	—	—	—	—	—
District of Columbia	205,000	84	31	13.09	15.47	2.38	2.38	—
Pittsburgh	190,000	—	—	—	—	—	—	—
Milwaukee	—	—	—	—	—	—	—	—
Providence	118,070	—	—	—	—	—	—	—
New Haven	78,000	—	—	—	—	—	—	—
Nashville	60,000	22	6	13.65	27.30	—	9.10	—
Charleston	60,145	26	11	23.10	7.70	15.40	3.85	—
Worcester	68,383	30	8	16.66	10.00	3.33	10.00	—
Lowell	64,051	35	13	20.00	8.58	—	20.00	—
Cambridge	59,660	30	9	13.33	16.66	—	6.66	3.33
Fall River	56,863	23	10	13.05	21.75	—	8.70	—
Lynn	45,861	23	8	8.70	17.40	—	—	—
Lawrence	38,825	9	0	—	44.44	—	—	—
Springfield	37,577	22	10	18.20	4.55	—	—	4.55
New Bedford	33,393	19	5	10.52	5.26	—	—	—
Somerville	29,992	—	—	—	—	—	—	—
Salem	28,084	12	2	—	—	—	—	—
Holyoke	27,894	6	1	16.66	—	—	—	16.66
Chelsea	25,709	7	2	14.28	—	14.28	—	—
Taunton	23,674	6	1	—	16.66	—	—	—
Haverhill	21,795	—	—	—	—	—	—	—
Gloucester	21,713	7	3	—	28.56	—	—	—
Brockton	20,783	4	3	25.00	25.00	—	—	25.00
Newton	19,759	10	2	30.00	—	—	—	20.00
Malden	16,407	8	3	—	25.00	—	—	—
Fitchburg	15,375	2	0	—	—	—	—	—
Waltham	14,609	5	2	20.00	20.00	—	—	—
Newburyport	13,716	3	1	53.33	—	—	33.33	—
Northampton	12,896	1	1	—	—	—	—	—
90 Massachusetts Towns	—	45	9	6.66	22.22	—	4.44	2.22

Deaths reported 2,483: under five years of age 864; principal infectious diseases (small-pox, measles, diphtheria, and croup, diarrhoeal diseases, whooping-cough, erysipelas and fevers) 299, consumption 301, lung diseases 374, diphtheria and croup 102, whooping-cough 30, scarlet fever 42, diarrhoeal diseases 29, malarial fever 24, typhoid fever 22, erysipelas 20, cerebro-spinal meningitis 13, measles seven, puerperal fever five, small-pox four, typhus fever one. From diarrhoeal diseases, New York 12, Philadelphia and Boston three each, Brooklyn, Baltimore and District of Columbia two each, Cincinnati, New Orleans, Cambridge, Lynn and Springfield, one each. From malarial fever, New York 12, New Orleans four, Baltimore three, Philadelphia and Brooklyn two each, District of Columbia one. From typhoid fever, Philadelphia six, New York five, New Bedford two, Brooklyn, Boston, Cincinnati, District of Columbia, Nashville, Lynn, Springfield, Newton and Waltham one each. From erysipelas, New York eight, Philadelphia seven, Brooklyn two, Boston, Cincinnati and Springfield one each. From cerebro-spinal meningitis, New York four, Philadelphia and Cincinnati two each, Baltimore, District of Columbia, Nashville, Worcester and Fall River one each. From measles, Baltimore five, New York and Brooklyn one each. From small-pox, New York four. From typhus fever, Philadelphia one.

In 108 cities and towns of Massachusetts, with a population of 1,262,875 (population of the State 1,941,465), the total death-rate for the week was 18.28 against 19.29 and 18.54 for the two preceding weeks.

In the 28 greater towns of England and Wales, with an estimated population of 9,093,817, for the week ending March 20th the death-rate was 29.3. Deaths reported 5,101: infants under one year of age 1,024; acute diseases of the respiratory organs (London) 917, whooping-cough 195, measles 103, diarrhoea 44, scarlet fever 32, fever 32, diphtheria 20, small-pox (Blackburn) one.

The death-rates ranged from 18.7 in Norwich; to 39.6 in Blackburn; Birkenhead 22.4; Birmingham 25.5; Hull 26.7; Leeds 20.9; Leicester 21.3; Liverpool 36.0; London 30.3; Manchester 35.7; Nottingham 27.1; Sheffield 23.8; Sunderland 22.5.

In Edinburgh 24.0; Glasgow 34.0; Dublin 40.5.

For the week ending March 20th in the Swiss towns, there were 55 deaths from lung diseases, consumption 53, small-pox nine, whooping-cough, diarrhoeal diseases, diphtheria and croup each seven, measles and puerperal fever one each.

The death-rates were: at Zurich 20.9; Geneva 19.2; Basle 17.8; Berne 36.4.

The meteorological record for week ending April 3, in Boston, was as follows, according to observations furnished by Sergeant O. B. Cole of the United States Signal Corps. —

Week ending	Barometer.	Thermometer.			Relative Humidity.				Direction of Wind.			Velocity of Wind.			State of Weather. <sup>1</sup>			Rainfall.		
		Daily Mean.	Daily Mean.	Maximum.	Minimum.	7.00 A. M.	3.00 P. M.	11.00 P. M.	Daily Mean.	7.00 A. M.	3.00 P. M.	11.00 P. M.	7.00 A. M.	3.00 P. M.	11.00 P. M.	7.00 A. M.	3.00 P. M.	11.00 P. M.	Duration, Hrs. & Min.	Amount in Inches.
Saturday, Mar. 27, 1886.																				
Sunday, ... 28	30.364	36.5	40.9	32.3	92.0	73.0	84.0	83.0	N.E.	S.E.	S.W.	10	10	2	O.	F.	C.	—	—	
Monday, ... 29	30.429	37.7	40.1	31.9	83.0	81.0	100.0	88.0	E.	S.E.	E.	11	22	13	O.	O.	R.	—	—	
Tuesday, ... 30	30.078	38.0	40.5	36.6	95.0	95.0	96.0	90.7	N.E.	S.E.	S.E.	12	14	4	O.	R.	G.	—	—	
Wednes., ... 31	29.959	34.6	64.3	37.2	100.0	86.0	86.0	95.3	N.E.	S.	S.	2	24	24	O.	O.	T.	—	—	
Thursday, ... 1	29.804	49.6	61.2	42.5	80.0	39.0	73.0	64.0	S.	S.	S.W.	20	18	10	O.	O.	C.	—	—	
Friday, ... 2	29.973	45.1	58.2	34.3	75.0	38.0	53.0	55.3	S.W.	N.W.	W.	12	22	6	O.	C.	C.	—	—	
Saturday, ... 3	30.129	35.4	39.5	31.3	72.0	77.0	89.0	79.3	N.W.	N.	N.	5	9	3	N.	N.	C.	50	0.77.	
Mean, the Week.	30.105	42.4	49.2	35.7				79.4												

<sup>1</sup> O., cloudy; C., clear; F., fair; G., fog; H., hazy; S., smoky; R., rain; T., threatening; N., snow.

#### OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT, U. S. ARMY, FROM APRIL 3, 1886, TO APRIL 9, 1886.

HARTSUFF, ALBERT, major and surgeon. Granted leave of absence for fifteen days. S. O. 71, Department East, April 7, 1886.

McELDERRY, HENRY, major and surgeon. Ordered for duty as post surgeon, Fort Wayne, Mich. S. O. 69 Department East, April 2, 1886.

MERRILL, JAMES C., captain and assistant surgeon. Granted leave of absence for three months. S. O. 81, A. G. O., April 7, 1886.

BLART, VICTOR, captain and assistant surgeon. Sick leave of absence further extended one year on account of sickness. S. O. 79, A. G. O. April 5, 1886.

JOHNSON, RICHARD W., assistant surgeon. Relieved from duty at Fort Buford, D. T., and ordered for duty (temporary) at Fort Snelling, Minn. S. O. 28, Department of Dakota, March 29, 1886.

ROBERTSON, R. L., assistant surgeon. On expiration of his present leave of absence, will be relieved from duty in Department of Texas and will report in person to commanding general Department of Dakota, for assignment to duty. S. O. Department Dakota, April 3, 1886.

LAUDERDALE, JNO. V., captain and assistant surgeon. From Department of Dakota to Department of Texas.

ADAIR, GEO. W., captain and assistant surgeon. From Department of Dakota to Department East.

FINLEY, JAS A., captain and assistant surgeon. From Department of Texas to Department of Dakota.

KILBOURNE, H. S., captain and assistant surgeon. From Department of Dakota to Department of Columbia.

GARDNER, E. F., captain and assistant surgeon. From Department of Columbia to Department East.

GRAY, WM. W., captain and assistant surgeon. From Department East to Department of Dakota.

BANISTER, J. M., captain and assistant surgeon. From Department East (upon the expiration of his present leave of absence) to Department of Columbia.

CARTE, E. C., first lieutenant and assistant surgeon. From Department of Arizona to Columbus Barracks, Ohio.

JOHNSON, R. W., first lieutenant and assistant surgeon. From Department of Dakota to Department East.

WILSON, GEO. F., first lieutenant and assistant surgeon. From Department of Columbia to Department Dakota. S. O. 79, A. G. O., April 5, 1886.

#### OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE UNITED STATES NAVY DURING THE WEEK ENDING APRIL 10, 1886.

DRAKE, N. H., passed assistant surgeon. Detached from duty at Naval Hospital, Philadelphia, Penn., and ordered to duty at Naval Hospital, Brooklyn, N. Y.

FITTS, H. B., passed assistant surgeon. Detached from duty at Naval Hospital, Brooklyn, N. Y., and ordered to duty at Naval Hospital, Philadelphia, Penn.

ANDERSON, FRANK, passed assistant surgeon. Detached from Naval Laboratory, New York, and granted six months' leave from May 1, 1886, with the privilege of going abroad.

#### SOCIETY NOTICES.

**SUFFOLK DISTRICT MEDICAL SOCIETY. SURGICAL SECTION.** — There will be an extra meeting of the Section at 19 Boylston Place, on Monday evening, April 19th, at 8 o'clock. Communications: Dr. John Homans, "A Successful Case of Laparotomy for Perityphlitic Abscess, with exhibition of Patient." Dr. J. J. Putnam will demonstrate a case of recovery after late suture of the musculo spiral nerve, with a few remarks. Dr. H. W. Cushing will exhibit a case of resection of the elbow-joint showing the result of the operation after four years.

S. J. MIXTER, M.D., Secretary.

**SUFFOLK DISTRICT MEDICAL SOCIETY. OBSTETRIC AND GYNÆCOLOGICAL SECTION.** — There will be a meeting of this Section at the large Medical Library Room, 19 Boylston Place, on Wednesday evening, April 21st, at 8 o'clock. Communications: Dr. S. W. Driver, "Obstetric Gleanings; or Expedients and Mistakes." Dr. Charles Sedgwick Minot, "The Actual as compared with the Supposed Structure of the Placenta." Dr. E. W. Cushing will show a Liomyoma, or Uterine Fibroid. Refreshments after the meeting.

JAMES R. CHADWICK, M.D., Chairman.

ROBERT B. DIXON, M.D., Secretary.

**MIDDLESEX SOUTH DISTRICT MEDICAL SOCIETY.** — The Annual Meeting will be held in Social Union Hall, 15 Brattle Street, Cambridge, on Wednesday, April 21, 1886, at 12 o'clock. The annual address will be delivered at 1 o'clock P.M., by Dr. A. F. Holt, of Cambridgeport. Dinner will be served at 2 o'clock P.M., after which the Society is invited to visit the Cambridge Hospital which will be shown by the kindness of Dr. M. Wyman. The Censors of the Society will meet at the same place at 11.30 A.M. of the same day to consider applications for admission to the Massachusetts Medical Society. Members wishing to go as delegates to the meeting of the American Medical Association, May 4th, at St. Louis, may give their names to the President or Secretary.

WALTER ELA, Secretary.

#### PRELIMINARY NOTICE.

**NEW YORK STATE MEDICAL ASSOCIATION. FIFTH DISTRICT BRANCH.** — The Fourth Special meeting of the Fifth District Branch will be held in Kingston on Tuesday, June 15th, 1886. All Fellows are cordially invited to contribute to the meeting, either by reading papers, notes or communications, or by exhibiting specimens. The Secretary will be glad to receive the title of any proposed paper as early as convenient.

J. G. PORTEOUS, M.D., President.

E. H. SQUIBB, Secretary, P. O. Box 94.

#### DEATHS.

In Sudbury, Levi Goodenough, M.D., M.M.S.S., aged eighty-two years.

Died on the 11th inst., in Brandon, Vt., of apoplexy, Anderson Dana Dyer, M.D., M.M.S.S. aged twenty-seven years.

#### BOOKS AND PAMPHLETS RECEIVED.

A Brief Synopsis of the Various Points involved in the Coarse Examination of the Brain and Spinal Cord. By Francis X. Dercum, M.D., Pathologist to State Hospital for the Insane at Norristown; Instructor in Nervous Diseases. University of Pennsylvania, Pathological Laboratory, State Hospital for the Insane, Norristown, Pa.

Hawes's Physician's Record. Entered according to Act of Congress in the Year 1886.