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ANNUAL REPORT
OF
The Boston City Hospital
BOSTON, MASS.



1921 1922

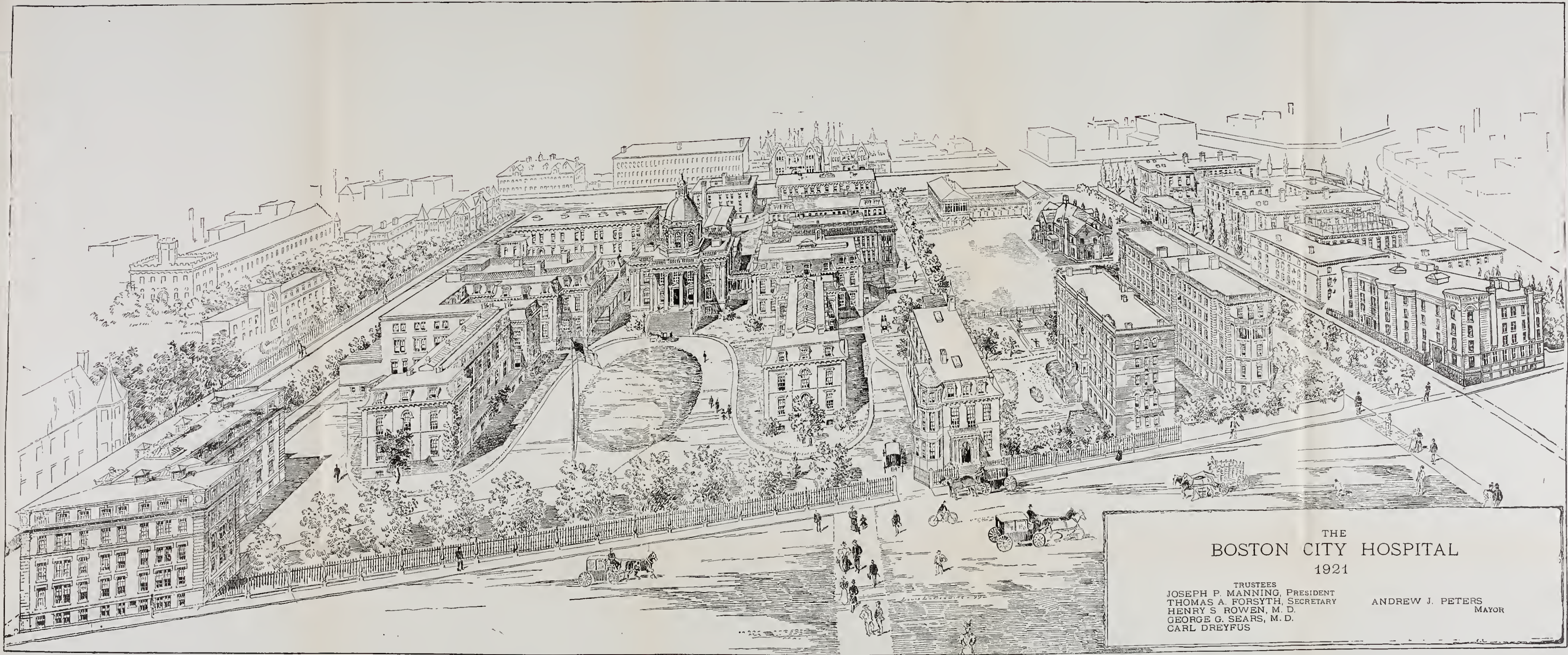
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1921-22

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Boston City Hospital



THE
BOSTON CITY HOSPITAL
1921

TRUSTEES
JOSEPH P. MANNING, PRESIDENT
THOMAS A. FORSYTH, SECRETARY
HENRY S. ROWEN, M. D.
GEORGE G. SEARS, M. D.
CARL DREYFUS

ANDREW J. PETERS
MAYOR

FIFTY-SEVENTH ANNUAL REPORT
OF
THE TRUSTEES
OF
THE BOSTON CITY HOSPITAL

INCLUDING THE
REPORT OF THE SUPERINTENDENT

UPON THE
HOSPITAL PROPER
THE SOUTH DEPARTMENT FOR INFECTIOUS DISEASES
THE HAYMARKET SQUARE RELIEF STATION
THE EAST BOSTON RELIEF STATION
THE CONVALESCENT HOME AT DORCHESTER
THE WEST DEPARTMENT

AND ALSO THE
HOUSE RULES, WITH RULES FOR ADMISSION, DISCHARGE
AND GOVERNMENT OF PATIENTS, ETC.

FOR THE FIFTY-SEVENTH YEAR

FEBRUARY 1, 1920, TO JANUARY 31, 1921, INCLUSIVE



CITY OF BOSTON
PRINTING DEPARTMENT

1921

6359.17

Center City Hospital
Feb 13 1922

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FIFTY-SEVENTH ANNUAL REPORT

OF THE

TRUSTEES

OF

THE BOSTON CITY HOSPITAL

WITH

REPORT OF THE SUPERINTENDENT

THE HOUSE RULES, WITH RULES FOR ADMISSION, DIS-
CHARGE AND GOVERNMENT OF PATIENTS, ETC.

FOR THE

FIFTY-SEVENTH YEAR, FEBRUARY 1, 1920,
TO JANUARY 31, 1921, INCLUSIVE.

TRUSTEES.

JOSEPH P. MANNING, <i>President</i>	. . .	Term expires in 1921.
THOMAS A. FORSYTH, <i>Secretary</i>	. . .	Term expires in 1924.
HENRY S. ROWEN, M. D.	. . .	Term expires in 1922.
GEORGE G. SEARS, M. D.	. . .	Term expires in 1923.
CARL DREFYUS	. . .	Term expires in 1925.

MEDICAL AND SURGICAL STAFF.

Consulting Physicians and Surgeons.

Edward H. Bradford, M. D.	George H. Monks, M. D.
V. Y. Bowditch, M. D.	Morton Prince, M. D.
Abner Post, M. D.	Elliott P. Joslin, M. D.
H. W. Cushing, M. D.	Henry Jackson, M. D.
F. S. Watson, M. D.	George G. Sears, M. D.

Consulting Pathologist.

William T. Councilman, M. D.

Consultant in Tropical Diseases.

Richard P. Strong, M. D.

Consultant in Ophthalmology.

Allen Greenwood, M. D.

Curator of the Hospital Museum.

Abner Post, M. D.

Superintendent and Medical Director.

John J. Dowling, M. D.

Senior Physicians.

George B. Shattuck, M. D. | Francis H. Williams, M. D.

Visiting Physicians.

John L. Ames, M. D.	|	Franklin W. White, M. D.
William H. Robey, Jr., M. D.	|	Edwin A. Locke, M. D.
Ralph C. Larrabee, M. D.	|	Edward N. Libby, M. D.

First Assistant Visiting Physicians.

Francis W. Palfrey, M. D.	|	Cadis Phipps, M. D.
		Harold W. Dana, M. D.

Second Assistant Visiting Physicians.

Thomas J. O'Brien, M. D.	|	Burton E. Hamilton, M. D.
Albert A. Hornor, M. D.	|	Harry A. Nissen, M. D.
Harold Bowditch, M. D.	|	Joseph M. Lynch, M. D.
Martin J. English, M. D.	|	Joseph E. Hallisey, M. D.
William R. Ohler, M. D.	|	John A. Foley, M. D.
Edmund F. Walsh, M. D.	|	William D. Reid, M. D.

Assistants to Visiting Physicians.

*William L. Moss, M. D.	|	*Lee H. Ferguson, M. D.
*Louis J. Ullian, M. D.	|	†Arthur B. Lyon, M. D.

Senior Surgeons.

George W. Gay, M. D. | Charles M. Green, M. D.

*Appointed for six months beginning October 29, 1920.

†Appointed for seven months beginning January 7, 1921.

Surgeons-in-Chief.

Paul Thorndike, M. D.	Edward H. Nichols, M. D.
John B. Blake, M. D.	Howard A. Lothrop, M. D.
Fred B. Lund, M. D.	Ernest B. Young, M. D.

Visiting Surgeons.

Frederic J. Cotton, M. D.	David D. Scannell, M. D.
William E. Faulkner, M. D.	Nathaniel R. Mason, M. D.
Joshua C. Hubbard, M. D.	Horace Binney, M. D.

First Assistant Visiting Surgeons.

Robert M. Green, M. D.	Frederick L. Good, M. D.
Frank H. Lahey, M. D.	Irving J. Walker, M. D.
Halsey B. Loder, M. D.	Arthur R. Kimpton, M. D.
John T. Williams, M. D.	Robert C. Cochrane, M. D.

Out-Patient Surgeons.

Otto J. Hermann, M. D.	Francis F. Henderson, M. D.
Somers Fraser, M. D.	Herbert H. Howard, M. D.
James J. Hepburn, M. D.	

Assistants to Out-Patient Surgeons.

Donald Munro, M. D.	Joseph H. Shortell, M. D.
Howard M. Clute, M. D.	Augustus Riley, M. D.
Joseph P. Cohen, M. D.	

Temporary Assistants to Out-Patient Surgeons.

*Llewellyn H. Rockwell, M. D.	‡Gordon D. Atkinson, M. D.
†Reginald D. Margeson, M. D.	‡John J. Ward, M. D.
§Albert A. Shapira, M. D.	

Anæsthetists.

John E. Butler, M. D.	Nathaniel N. Morse, M. D.
Frank L. Richardson, M. D.	Lincoln F. Sise, M. D.

Oral Surgeon-in-Chief.

Stephen P. Mallett, D. M. D.

* Reappointed for six months beginning October 14, 1920.

† Appointed for six months beginning July 1, 1920.

‡ Appointed for six months beginning August 13, 1920.

§ Appointed for six months beginning January 1, 1921.

Oral Surgeons.

William H. Canavan, D.M.D. | Thomas Hennessey, D. M. D.

Ophthalmic Surgeons.

Henry B. Stevens, M. D. | Jeremiah J. Corbett, M. D.

Assistants to the Ophthalmic Surgeons.

L. Colby Rood, M. D. | Leon W. Jessaman, M. D.
Samuel H. Wilkins, M. D.

Temporary Assistant to Ophthalmic Surgeons.

* Joseph J. Skirball, M. D.

Senior Surgeon for Diseases of Ear and Throat.

George A. Leland, M. D.

Visiting Surgeon for Diseases of Ear and Throat.

Rockwell A. Coffin, M. D.

Surgeons for Diseases of Ear and Throat.

Charles R. C. Borden, M. D. | George L. Vogel, M. D.
Henry Tolman, Jr., M. D.

Assistant Surgeons for Diseases of Ear and Throat.

Louis M. Freedman, M. D. | William T. Haley, M. D.
Edward J. Monahan, M. D.

Temporary Assistant to the Surgeons for Diseases of Ear and Throat.

†Samuel Cline, M. D.

Visiting Physicians for Diseases of the Nervous System.

John J. Thomas, M. D. | Arthur W. Fairbanks, M. D.

First Assistant Visiting Physician for Diseases of the Nervous System.

Abraham Myerson, M. D.

*Appointed for six months beginning August 1, 1920.

†Appointed for six months beginning July 1, 1920.

Second Assistant Visiting Physicians for Diseases of the Nervous System.

Leroy A. Luce, M. D.	|	Mabel D. Ordway, M. D.
Earle H. MacMichael, M. D.	|	George V. N. Dearborn, M. D.

Physicians for Physical Therapeutics.

Frank B. Granger, M. D.		Robert E. Bonney, M. D.
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Temporary Assistants to the Physicians for Physical Therapeutics.

*Joseph Resnik, M. D.		*Robert H. Meikle, M. D.
-----------------------	--	--------------------------

Physician for Diseases of the Skin.

Townsend W. Thorndike, M. D.

Assistants to the Physician for Diseases of the Skin.

William P. Boardman, M. D.	|	M. C. von Groll, M. D.
		Walter T. Garfield, M. D.

Pathologist.

F. B. Mallory, M. D.

Physician for Infectious Diseases.

Edwin H. Place, M. D.

Physician for X-Ray Service.

Samuel W. Ellsworth, M. D.

Assistant Physician for X-Ray Service.

Paul F. Butler, M. D.

Assistant to the Physician for X-Ray Service.

Hermann A. Osgood, M. D.

Consultant in Vaccine and Serum Therapy.

George P. Sanborn, M. D.

Physicians to the Convalescent Home.

John P. Treanor, M. D. | Henry F. R. Watts, M. D.
 | Bradford Kent, M. D.

HOUSE OFFICERS.

The following-named House Officers have completed service during the year:

William A. Mahoney, M. D., Medical Service . . .	14 months
Dwight O'Hara, M. D., Medical Service . . .	15 months
Paul N. Neal, M. D., Medical Service . . .	13 months
Ernest A. Mandeville, M. D., Medical Service, . . .	15 months
Stuart W. Adler, M. D., Medical Service . . .	15 months
George G. Korolick, M. D., Medical Service . . .	16 months
Charles N. Kavanaugh, M. D., Medical Service, . . .	4 months
Chester R. Mills, M. D., Medical Service . . .	16½ months
Augustine W. McGarry, M. D., Medical Service, . . .	16 months
William Koppel, M. D., Medical Service . . .	16 months
Forrest B. Ames, M. D., Medical Service . . .	16 months
James A. Fountain, M. D., Medical Service . . .	8 months
Kenneth E. Millan, M. D., Medical Service . . .	9 months
Onis H. Horrall, M. D., Medical Service . . .	12 months
Louis C. Stein, M. D., Medical Service . . .	17 months
Jesse B. Naive, M. D., Medical Service . . .	13 months
David Zacks, M. D., Medical Service . . .	11 months
John H. Gordon, M. D., Surgical Service . . .	15 months
Russell F. Sullivan, M. D., Surgical Service . . .	13 months
Paul Gustafson, M. D., Surgical Service . . .	12 months
William L. MacKedon, M. D., Surgical Service, . . .	17 months
William R. Supple, M. D., Surgical Service . . .	17 months
Richard E. Dunne, M. D., Surgical Service . . .	17 months
Edward Harding, M. D., Surgical Service . . .	16 months
Edward J. Sawyer, M. D., Surgical Service . . .	16 months
Ernest O. Nay, M. D., Surgical Service . . .	18 months
Frank W. Milward, Jr., M. D., Surgical Service, . . .	19 months
Bruce Snow, M. D., Surgical Service . . .	19 months

Thomas K. Richards, M. D., Surgical Service .	20 months
Maurice G. Berlin, M. D., Surgical Service .	15½ months
Jeffrey J. Walsh, M. D., Ophthalmic and Aural Service	15 months
Arthur L. Brunelle, M. D., Ophthalmic and Aural Service	15 months
Carmi R. Alden, M. D., Gynæcological Service,	15 months
Donald C. McGill, M. D., Gynæcological Service	17 months
Frederick J. Lynch, M. D., Gynæcological Service	17½ months
Lester A. Hansen, M. D., Neurological Service,	12 months
Carl A. Peterson, M. D., Neurological Service,	12½ months
Alvin R. Moses, M. D., Neurological Service .	11½ months
William L. MacKedon, M. D., X-Ray Service,	4 months

HOUSE OFFICERS ON DUTY.

(February 1, 1921.)

MEDICAL SERVICE.

House Physicians.

William J. McDonald.	Samuel Nadel.
Frank S. Cruickshank.	Lauren H. Goldsmith.
Robert H. Courtney.	

Senior Medical Internes.

Leo G. Rondeau.	Saul Berman.
Jack H. Swartz.	

Medical Externes.

Philip W. Blake.	Gerald N. Hoeffel.
William H. McKnight.	George L. Fuller.

Junior Medical Internes.

Harry Soforenko.	Lee E. Sutton, Jr.
Daniel J. Hogan.	

SURGICAL SERVICE.

House Surgeons.

Zung-dau Zau.	George W. Simpson.
Harry H. Butler.	Joseph H. Burnett.
Carl E. Barstow.	Charles L. Lynch.

Senior Surgical Internes.

George H. Hooper.	Elliott S. Denny.
Edward W. Wilder.	Oswald T. Fleury.
William A. Mahoney.	

Accident Floor House Officers.

Ralph E. Merrill.	Ralph W. Storrs.
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Surgical Externes.

Harry L. Doherty.	Sidney C. Wiggin.
Herbert Coulson.	Gerald L. Doherty.
Ralph W. Storrs.	

Junior Surgical Internes.

Richard J. Smith.	Mast Wolfson.
Stephen M. Smith.	Benedict F. Boland.
David D. Greene.	John D. Sheehan.

OPHTHALMIC AND AURAL SERVICE.

House Surgeon, Aural Service.

Alton L. V. Grant.

HOUSE SURGEON, OPTHALMIC SERVICE, AND INTERNE, AURAL SERVICE.

Philip R. Dwyer.

Externe.

Chester R. Mills.

NEUROLOGICAL SERVICE.

House Physician.

Robert H. Courtney.

Senior Interne.

William E. Savage.

Externe.

Fred Heimlich.

PATHOLOGICAL SERVICE.

Senior Interne.

Harlan F. Newton.

HOSPITAL OFFICERS.

- John J. Dowling, M. D., *Superintendent and Medical Director.*
 Edmund W. Wilson, M. D., *Assistant Superintendent.*
 James W. Manary, M. D., *First Executive Assistant.*
 Francis S. Brodrick, M. D., *Second Executive Assistant.*
 Edward B. Ormsby, M. D., *Resident Surgeon.*
 Onis H. Horrall, M. D., *Third Executive Assistant.*
 Lawrence A. Betteridge, M. D., *Night Executive Assistant.*
 F. Dennette Adams, M. D., *Resident Physician for Special Service.*
 Arthur B. Lyon, M. D., *Temporary Assistant Physician for Special Service.*
 William R. Supple, M. D., *Resident Anæsthetist.*
 F. B. Mallory, M. D., *Pathologist.*
 Robert N. Nye, M. D., *Assistant Pathologist and Research Assistant in Pathology.*
 Bartlett C. Shackford, M. D., *First Assistant in Pathology.*
 Merrill J. King, M. D., *Second Assistant in Pathology.*
 William R. Ohler, M. D., *Assistant in Clinical Pathology.*
 Samuel W. Ellsworth, M. D., *Physician for X-Ray Service.*
 Paul F. Butler, M. D., *Assistant Physician for X-Ray Service.*
 Thomas E. Buckman, M. D., *Hæmatologist.*
 John Ferrin, *Chief Apothecary.*
 Miss Leonie M. Corcoran, *Registrar.*
 Miss Emma M. Nichols, *Counsellor to the Training School.*
 Miss Ellen C. Daley, *Superintendent of Nurses and Matron.*
 Miss Gertrude L. Farmer, *Director of Medical-Social Work.*
 Miss Lydia C. Lee, *Chief Dietitian.*

SOUTH DEPARTMENT.

- John J. Dowling, M. D., *Medical Director.*
 Edwin H. Place, M. D., *Physician-in-Chief.*
 Stuart W. Adler, M. D., *Assistant Physician.*
 Lee F. Hill, M. D., *Temporary Assistant Physician.*
 Augustine W. McGarry, M. D., *Assistant Physician.*
 Miss Julia E. F. Gertz, *Assistant Superintendent of Nurses and Matron.*

House Officers.

(February 1, 1921.)

Sidney H. Weiner.
 Benjamin J. Berger.

Harold H. Rosenfield.
 Sanford Rosenthal.

HAYMARKET SQUARE RELIEF STATION.

John G. Breslin, M. D., *Resident Surgeon.*

Bernard F. Devine, M. D., *Assistant Resident Surgeon.*

Miss Rose F. Moran, *Matron.*

House Officers.

(February 1, 1921.)

Ralph W. Haywood.	|	Gilbert E. Gayler.
		Eugene E. O'Neil.

EAST BOSTON RELIEF STATION.

George E. Allen, M. D., *Resident Surgeon.*

William L. MacKedon, M. D., *Assistant Resident Surgeon.*

CONVALESCENT HOME.

Miss Elizabeth C. Fairbank, *Matron.*

REPORT OF THE TRUSTEES.

BOSTON, February 1, 1921.

HON. ANDREW J. PETERS,

Mayor of the City of Boston:

SIR,—In compliance with the ordinances, the trustees of the Boston City Hospital present the following report of its condition for the year ending January 31, 1921.

This is the fifty-seventh annual report of the Hospital Department, which consists of the main hospital, the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home in Dorchester.

The Board of Trustees was organized on May 3, 1920, by the election of Mr. Joseph P. Manning as president and Mr. Thomas A. Forsyth as secretary.

In May Mr. Carl Dreyfus was reappointed to the Board of Trustees for the term ending April 30, 1925.

EXPENDITURES.

The entire expenditures for all departments of the hospital for maintenance during the fiscal year were \$1,239,291.29. Of the amount spent for maintenance, \$786,194.16 was expended upon the hospital proper and its subdivisions; \$84,028.21 on account of the Out-Patient Departments; \$259,577.47 on account of the South Department; \$63,797.19 on account of the Haymarket Square Relief Station; \$32,610.56 on account of the East Boston Relief Station; \$13,083.70 for the Convalescent Home. Of the total amount spent on the Pathological Laboratory, \$27,485.63, \$17,315.95 is included in the hospital proper expenditures, \$274.86 in the Out-Patient Department, \$9,619.97 in the South Department and \$274.85 in the Haymarket Square Relief Station expenditures. Of the total amount spent on the X-Ray

Laboratory and Photographic Department, \$25,700.25, \$15,420.15 is charged to the hospital proper and \$10,280.10 to the Out-Patient Department. Of the total amount spent on the Department of Physical Therapeutics, \$4,846.89, \$1,211.72 is charged to the hospital proper and \$3,635.17 to the Out-Patient Department. Of the total amount spent on the Clinical Laboratories, \$4,659.91, \$2,795.95 is charged to the hospital proper and \$1,863.96 to the Out-Patient Department. Of the total amount spent on the Blood Laboratory, \$4,044.14, \$3,639.73 is charged to the hospital proper and \$404.41 to the Out-Patient Department. Of the total amount spent on the Vaccine and Serum Therapy Department, \$2,919.10, \$583.82 is charged to the hospital proper and \$2,335.28 to the Out-Patient Department. Of the total amount spent on the Department of Medical-Social Work, \$9,207.18, \$5,524.31 is charged to the hospital proper and \$3,682.87 to the Out-Patient Department. Of the total amount spent in ascertaining the settlement of patients, \$1,149.62, \$689.77 was spent on the hospital proper and \$459.85 on the South Department.

In Table No. 2 the expenditures on the hospital proper and the South Department are combined under the title, Main Hospital.

The method of obtaining the per capita costs in the various departments are shown in Tables No. 1 and No. 2 of the superintendent's report. From the total operating expenses are deducted the increases in stock on hand at the end of the year over that at the beginning of the year (or the decreases are added, as the case may require). This gives the amount properly chargeable to maintenance. This cost of maintenance is divided by the number of days' board given ward patients or the number of visits of out-patients to obtain the per capita cost per patient.

The per capita cost at the hospital proper was \$3.68 per day for ward patients, at the South Department \$3.76; but, taking the hospital proper and the South De-

partment together, the per capita cost per ward patient was \$3.70. At the Convalescent Home the per capita cost per patient was \$2.41 per day. The cost of out-patients, per visit, was 71 cents at the hospital proper, \$2.57 at the Haymarket Square Relief Station, and \$1 at the East Boston Relief Station. The cost of uncooked food supplies for the hospital in all its departments has been \$3.62 per person per week, or 52 cents per day.

PAYING PATIENTS.

During the year there has been collected for the care and treatment of patients of all classes the sum of \$167,008.93, itemized as follows: There was received from the Commonwealth of Massachusetts for the board of patients at the hospital proper \$37,661.95; at the South Department, \$1,590; from various cities and towns for hospital proper, \$11,376.16; for the South Department \$224; collected at the superintendent's office, on account of private room, ward and Out-Patient Department paying patients, \$86,042.80, of which \$11,861.81 was from insurance cases; for board of paying patients at the South Department, \$7,398.20; on account of ward and Out-Patient Department paying patients at the Haymarket Square Relief Station, \$3,653.44, of which \$1,928.94 was from insurance cases; on account of ward and Out-Patient Department paying patients at the East Boston Relief Station \$1,759.81, \$932.02 of this being from insurance cases. There was also collected in all departments \$2,211 on account of insurance cases, \$1,492 of this being for X-ray cases and \$719 being for clinical record fees.

There has also been collected for the hospital, by the Health Department, for the care of infectious cases at the South Department, and paid to the City Collector, the additional sum of \$15,091.07.

The following is a tabular statement of the income from paying patients:

FEBRUARY 1, 1920, to JANUARY 31, 1921, INCLUSIVE.

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	All Departments.	Totals.
Collected at the Hospital:						
From the state	\$37,661 95	\$1,590 50				\$39,252 45
From cities and towns . .	11,376 16	224 00				11,600 16
From ward and private room patients						
Miscellaneous cases . . .	63,851 36	7,398 20	\$1,555 50	\$526 29		73,331 35
X-ray cases	10,329 63		169 00	301 50		10,800 13
From insurance cases:						
House cases	8,859 60		426 94	104 02		9,390 56
Out-patient cases	3,002 21		1,502 00	828 00		5,332 21
X-ray cases					\$1,492 00	1,492 00
Record fees					719 00	719 00
Totals	\$135,080 91	\$9,212 70	\$3,653 44	\$1,759 81	\$2,211 00	\$151,917 86
Collected by Health Department for contagious cases						
		15,091 07				15,091 07
Totals	\$135,080 91	\$24,303 77	\$3,653 44	\$1,759 81	\$2,211 00	\$167,008 93

The revenue was increased \$12,292.13 by X-ray charges. It was also increased \$12,121 by removal of tonsils and adenoids, syphilitic treatment, issuing of *ex-officio* statements, circumcision and payment of nurses' board.

A table showing the revenue received from paying patients, interest on trust funds, sale of old material and other sources, will be found on page 87 of the Superintendent's report.

RENOVATIONS.

At the South Department the roofs have needed much repair during the past year. The system of fire protection for these buildings has also been greatly improved by installation throughout of sprinkler system. Pavilion III. is now in process of being changed into a modern isolation ward.

The Department of Physical Therapeutics and the various laboratories—some recently established—have required much new equipment.

It has been necessary to purchase a new washing machine and two new presses for the laundry. Three new chasses have been required for the hospital ambulances.

THE THORNDIKE MEMORIAL.

In May 1919 the trustees of the George L. Thorndike Fund turned over to the City Treasurer \$200,000. On September 16, 1919, bids were opened for the Thorndike Memorial Building, under plans and specifications prepared by Maginnis & Walsh, but as the bids all exceeded the amount available, they were rejected. The architects have now revised the plans and specifications, and have requested of the Mayor and Council a loan sufficient to erect the building under the new plans and specifications.

A statement of the fund is, viz.:

May 27, 1919, from trustees of estate of George L. Thorndike	\$200,000 00
Interest credited by City Auditor, July 1, 1919, to January 31, 1921	10,294 57
	<hr/>
	\$210,294 57
Expenditures	10,026 61
	<hr/>
On hand January 31, 1921	<u>\$200,267 96</u>

The expenditures comprise payments on account to the architects, and the cost of test borings and printing the specifications.

MEDICAL DEPARTMENT.

During the past year the work and efficiency of the Medical Department has been maintained at the usual high standard of former years. Free use has been made of the recently equipped special laboratories for the investigation of nephritis, diabetes, pneumonia and diseases of the blood. Special services by different groups of physicians have been undertaken for the better study

and care of patients suffering with nephritis, diabetes, and heart disease. The recently installed electrocardiograph is being freely used and adds much to the better understanding of otherwise obscure cardiac disturbances.

Monthly clinical meetings and ward visits have been held between the different medical services, and a keen desire for cordial co-operation has been manifested.

GYNÆCOLOGICAL AND OBSTETRICAL SECTION.

Although working at a great disadvantage under present conditions, the Gynæcological and Obstetrical Section of the Fifth Surgical Service has cared for 1,988 ward patients during the past year. In the obstetric ward, 406 mothers have been treated, with six deaths. Of the 406 cases, 160 were followed by our Out-Patient Department, and admitted to the ward. The remaining 246 cases were emergencies. With the babies delivered, we have not been so fortunate, owing to the large number of emergencies of various kinds. Number of births during the year, 413. There were 29 babies who died after birth. The premature children have been well nursed and many have survived. One child was successfully reared which weighed less than four pounds at birth. In Ward S operating room, there have been 372 operations performed. In Ward H operating room there have been 248 operations. Among 549 surgical cases outside the obstetric ward there have been 14 deaths. The total deaths on the service have been 67.

Pre-natal work in the Gynæcological Out-Patient Department, shows the following statistics: New admissions to clinic, 366: 121 of these came only for confirmation of diagnosis made by private physicians, or gave false addresses, or are not yet delivered, 229 of the 366 are accounted for, 160 of them having been admitted for maternity in Ward S. All these patients' names were sent to the Department of Health for pre and post natal literature to be sent to their homes. These letters, which are mailed monthly by the Health Department, are received enthusiastically by the expectant mother.

The staff has instructed nurses in the delivery rooms, given 38 lectures to the Training School, held five clinics in the house and three in the Out-Patient Department every week for the instruction of sections from the Harvard Medical School.

The attention of the trustees is invited to the inadequacy of our present quarters and to certain conditions which should be remedied. Neither Ward S nor Ward H are properly arranged for the efficient care of our patients. There is no office for the transaction of business. The operating plant is outgrown. The sterilizing room is too small. There is no room available for etherizing. We should have more isolation rooms for patients; the delivery rooms are so situated that sounds are easily heard throughout the ward. A recovery room is an urgent necessity. A small laboratory is needed. The room used for a nursery in Ward S is crowded. Ward H is poorly arranged in regard to isolation of patients and facilities for examination and treatment.

By the necessity of housing some patients in Ward L, much time is wasted in running back and forth. Ward L has not the facilities for the care of gynecological or obstetrical patients.

The Out-Patient Department is not arranged in a manner suitable for our needs, especially on account of increased attendance and the prenatal clinic.

The joining of the Genito-Urinary Department with our service has not been entirely satisfactory. The binding of our records with those of another section makes the search for old records a much more time-consuming task.

These criticisms are not intended as complaints, but as statements of facts. They show that the service has outgrown its old quarters, and must either go backward or else have an opportunity to advance.

The best solution of the problems would appear to be a special building, in a part of which the Out-Patient Department could be given quarters.

DEPARTMENT FOR DISEASES OF EAR AND THROAT.

During the past year 1,734 patients have been admitted for treatment in the Ear and Throat Service. Fifteen hundred operations have been performed, including operations for removal of tonsils and adenoids. In the Out-Patient Department 3,967 new patients have been treated and 5,768 old patients, these patients making a total of 9,735 visits for treatment.

The tonsil work has been exceptionally well done. The kind of operation performed and the system which is followed insures good results in the future.

A meeting has been held for reading house officers' theses. We believe such meetings will benefit the whole department, as well as the graduating internes.

The new system for care of the surgical instruments has worked well; practically no instruments have been lost.

NEUROLOGICAL DEPARTMENT.

The Neurological Service has shown an increase in the number of cases seen. This has been due in part to an increased appreciation of the importance of consultations with men having especial neurological training, by members of other departments of the hospital. While the effect of prohibition has been to produce a marked diminution of the number of cases treated for alcoholic psychoses, both acute and chronic, so that it has been possible to close the special ward for the treatment of male patients in excited states, the presence of a mild epidemic of poliomyelitis last summer, and the small epidemic of encephalitis still persisting, has more than made up for any decrease in alcoholic cases. The poliomyelitis cases were treated by the Neurological Service in an isolation ward assigned for the purpose. Isolation of the encephalitis cases has not been deemed necessary either by the state authorities or the hospital management.

Though the return of the members of the staff who were in the service of the army during the war, has en-

abled them to resume their work for the hospital, the death of Doctor Knapp, who has long and faithfully served the hospital, together with the resignations of Doctors Coriat and Daly, has still left the department somewhat short-handed. This has been met by the senior members increasing the length of their service, so as not to interfere with the proper handling of the patients in the Out-Patient Department. Doctor Luce of the Neurological Staff has largely taken over the treatment of cases of neurosyphilis by intraspinal injections, working in the laboratory of the Department of Vaccine and Serum Therapy. This work was formerly done by the Department for Vaccine and Serum Therapy.

Doctor Luce's work has resulted in a closer co-operation of the two departments and better co-ordination of this work with that of our department as a whole, and better supervision of the cases.

PATHOLOGICAL DEPARTMENT.

It is becoming increasingly difficult to hold good assistants in the laboratory for any length of time owing to the great demand everywhere for men well trained in pathology and the large salaries offered. The custom of obtaining the best men available and training them has at least one advantage; it has given the laboratory a reputation all over the country for training pathologists.

It has been possible during the past year to produce experimentally in rabbits one type of cirrhosis of the liver, the so-called pigment cirrhosis. The result will be presented this spring at the meeting of the Association of American Physicians. Work of this type is exceedingly slow. The human cases require many years for their development. The first positive results in animals were obtained at the end of five months after years spent in finding out the agent which causes the lesion.

Doctor Parker is continuing in New York his study of the pathogenic bacillus isolated from the middle ears of scarlet fever carriers. The results so far obtained are

promising. A number of photomicrographs sent to the London Royal Photographic Society were accepted and appeared in their recent exhibition.

The repainting of the laboratory has greatly improved its appearance and has made it a much pleasanter place to work in.

The first duty of the laboratory is the faithful performance of the routine of the hospital. It is this work which helps the clinicians in the intelligent treatment of patients; it also gives the assistants the training which makes them so valuable when they go elsewhere.

The various tables included in the report give an idea of the amount of work done. The numbers of the different lines of examination vary from year to year but the tendency is for them all to increase a little. The number of autopsies this year shows an encouraging upward tendency.

WORK OF THE PATHOLOGICAL LABORATORY FOR THE YEAR.

Autopsies	148
Surgical diagnoses	2,187
Clinical bacteriology (positive)	670
Clinical bacteriology (negative)	454
Blood cultures (positive)	138
Blood cultures (negative)	587
Guinea pig inoculations	85
Bacillus diphtheria (total)	18,371
Bacillus diphtheria (positive)	1,645
Pneumonia service (sputa typed)	543
Pneumonia service (lung puncture typed)	203
Wassermann reactions	4,224
Wassermann (positive)	515

X-RAY DEPARTMENT.

Twenty-five years ago the marvelous discovery of the X-ray gave to the world a new and wonderful auxiliary to medical and surgical diagnosis and treatment. The

early work begun in 1895 by Dr. Francis H. Williams, and continued by him in the following years, has given to the Boston City Hospital an international name as the place where important pioneer investigations in the use of the X-ray were first performed.

Since the time of the first small room and crude apparatus, the growth has been rapid, the work has broadened in usefulness and become more specialized in application. Each year witnesses not only larger numbers of patients in attendance but also develops new and detailed methods of examination. For example, during the past year the examination of the abdominal viscera has been advanced by inflating the peritoneal cavity, in suitable cases, with oxygen as, which enables the X-Ray to show in brilliant contrast the separated outlines of the abdominal organs.

The therapeutic use of the X-ray has been further extended to the treatment of hypertrophied tonsils, a method still on trial, and which promises excellent results.

The problems presented are to properly serve a constantly increasing attendance with a broadening field in the use of the X-ray.

Grateful acknowledgement is made to a friend for the gift of a Dessane fluoroscope, an apparatus such as was used by the French roentgenologists in military hospitals, to aid in the extraction of foreign bodies, a most useful appliance, which enables the surgeon to work in a lighted room.

The following table indicates the work of the past year:

Number of X-ray examinations	15,257	
Number of gastro-intestinal examinations.	1,534	
		<hr/>
Total number of X-ray examinations		16,791
Number of ward patients treated	6,786	
Number of out-patients treated	10,178	
		<hr/>
Total number of patients treated		16,964
Number of visits of out-patients		10,178
Number of photographs		46

Number of negatives made	31,242
Number of dental films	2,346
Number of X-ray treatments	1,447
Number of patients under treatment	173

DEPARTMENT FOR VACCINE AND SERUM THERAPY.

Last year has been one of progress, marked by the establishment of a new laboratory, well situated and excellently equipped for the special needs of the department. The laboratory and clinic rooms now occupying the entire third floor of the east wing of the Surgical Out-Patient Building, have been in use since November 15, 1920. This combination of laboratory and clinic units on the same floor has proved an admirable arrangement.

The personnel of the department has increased as follows:

As voluntary assistant, Dr. L. A. Luce of the Neurological Department has conducted the treatment of neurosyphilitic cases with salvarsan, salvarsanized serum, and other methods.

Dr. E. F. Walsh of the Medical Out-Patient Department, has interested himself generally in the work of the department, and particularly in the study and treatment of the respiratory group of cases, including asthma, asthmatic bronchitis and hay fever.

Dr. L. H. Rockwell under a six months' appointment on the Surgical Out-Patient Staff, has undertaken a study of furunculosis, chiefly to establish a group of cases untreated by vaccine, to serve as a control for about two thousand cases that have received vaccine treatment.

The work of the laboratory has increased during the past year, due to the increase in number of cases of respiratory infection, to the preparation of convalescent serum for treatment of scarlet fever and measles, at the South Department, and to the increased numbers of neurosyphilis cases, requiring sera of the Swift-Ellis or similar type.

This department is now equipped with laboratory, clinic facilities and personnel, which should enable it to

carry out the required routine work efficiently, and in addition pay some considerable attention to research problems.

The following figures represent the work accomplished by the Department for Vaccine and Serum Therapy during the year:

Total number of patients under treatment	506
Total number of visits to out-patient clinic	2,822
Number of visits to salvarsan clinic	1,074
Number of visits to vaccine clinic	1,748
Number of individuals receiving protective inoculations against typhoid and paratyphoid	80
Number of protective typhoid and paratyphoid inoculations	229
Number of curative vaccine inoculations	1,872
Number of intravenous salvarsan injections	531
Intradural salvarsanized serum injections	393
Lumbar punctures done for diagnosis	35
Specimens of bloods on which Wassermann tests were done	314
Specimens of spinal fluids on which Wassermann tests were done	219
Number of Swift-Ellis sera prepared by laboratory	408
Number of convalescent sera for South Department, prepared by laboratory from:	
Scarlet fever bloods	38
Measles bloods	9
Number of convalescent sera, prepared by laboratory from:	
Influenza-pneumonia bloods	15
Type 2 pneumonia bloods	3

DENTAL SERVICE.

The following figures represent the work accomplished in the Dental Department during the past year:

Number of ward patients treated	126
Number of out-patients treated	214
Number of visits of out-patients	244
Teeth extracted	466
Impacted teeth removed	11

Root amputations	3
Local anesthesia	161
Nitrous oxide anesthesia	72
Ether anesthesia	59
Simple fractures treated	43
Compound fractures treated	4
Antrum cases	8
Alveolar abscesses	26
Treatments	61
Consultations	138
Osteomyelitis	2
Vincent's angina	1
Necrosis of jaw	7

CLINICAL LABORATORY DEPARTMENT.

The work of the department is definitely divided into clinical and laboratory.

Clinical.—The department has supervision of most of the cases of diabetes mellitus in the hospital, and a number of the cases of nephritis. These cases are all referred to the department by the various medical and surgical services. The department also has charge of a diabetic out-patient clinic, and co-operates in the management and study of cases in the thyroid clinic.

Laboratory.—The department supervises the routine clinical laboratory work done on cases from medical services, and has entire charge of the routine laboratory work on cases from the surgical services. In addition special laboratory tests are done on such cases of nephritis, diabetes and thyroid disease which are referred to the department for study. During the past year 96 cases of nephritis, 148 cases of diabetes have been carefully studied in the department, and 119 basal metabolism tests have been done on cases in the thyroid clinic. In addition to the routine work necessary in the proper study of the above mentioned diseases, the department is actively engaged in the study of research problems in connection with these same diseases.

The following figures represent the work of this department for the year:

Ward patients referred from other departments and treated:

Medical	73
Surgical	27
Total	<u>100</u>

Out-Patients treated 126; of these 74 were referred from other departments.

Number of visits of patients to Out-Patient Clinic	968
Average clinic attendance	8
House cases reported to Out-Patient Department	76
Number of patients who made only one visit	25

PNEUMONIA SERVICE.

During the past year a total of 569 cases were treated on this service. They may be grouped as follows:

Lobar pneumonia	272
Broncho-pneumonia	111
Influenza	6
Influenza and pneumonia	33
Empyema (admitted as such)	35
Empyema, complicating lobar pneumonia	17
Empyema, complicating broncho-pneumonia	9
	<u>61</u>
Miscellaneous	86
	<u>569</u>

The great advantage of the segregation of all cases of pneumonia and empyema on a special service has been constantly apparent. Not only do the patients have the benefit of the special equipment and organization, but the grouping of such cases affords an opportunity for teaching and research which is not equalled anywhere in the country. Four papers were published during the year by those identified with the service.

A research laboratory has been under the direction of Dr. William L. Morse. During the first half of the year Doctor Morse and his associate, Dr. Howard Osgood, conducted a careful research on the bacteriology of influenza. Since September, 1920, Dr. G. H. Bigelow

and Dr. L. H. Ferguson have been associated with Doctor Morse. Three separate investigations are being conducted in the research laboratory on the abundant clinical material available in the pneumonia wards which give promise of valuable results.

The pneumonia service has had the advantage of the closest co-operation on the part of the blood research laboratory throughout the year. Four important problems are now being studied by members of the two departments under the direction of Doctor Buckman.

Doctor Lyon is conducting in co-operation with Doctor Buckman an important study of the blood in pneumonia of childhood and infancy. A routine investigation of the bacteriology of pneumonia in these ages is also being undertaken by Doctor Lyon.

By vote of the Senior Staff early in the year, all empyema cases coming to the hospital are admitted to the pneumonia service. It has also been arranged that all such cases shall remain in the pneumonia wards after operation, though under surgical care. The results of this arrangement have been extremely gratifying and it is to be hoped that it will be made permanent. The particular advantage is that these patients have not only the advantage of the special equipment of the pneumonia service for diagnosis but also of the combined medical and surgical care following operation.

THE BLOOD SERVICE.

In July, 1919, upon the recommendation of the staff and with the approval of the trustees, the plan was adopted of assigning all blood cases to the First Medical Service. Several months later a laboratory was established. The objects of this plan are, first, to improve the study and clinical care of patients with diseases of the blood and second, to advance research in the same class of cases. The research work is being carried out in co-operation with the Department of Medicine of the Harvard Medical School, the Massachusetts General Hospital and the Peter Bent Brigham Hospital.

In accordance with the plan adopted, all cases admitted as anemia, hemorrhagic disease, leukemia, pseudo-leukemia and Hodgkin's disease are assigned to the First Medical Service, unless specifically recommended for some other assignment. Other services are requested (but not required) to allow the Blood Service to see in consultation any cases of these diseases that may come under their care, and to transfer such cases to the First Medical Service, if such transfer be recommended.

The special clinic thus constituted is in charge of the Senior Visiting Physician of the First Medical Service, who is responsible throughout the year for the clinical care of the blood cases, and acts as consultant upon such cases in other services. A surgeon is associated with the clinic, and to him, by vote of the surgical staff, all surgical blood cases are assigned. He has charge of the transfusions and also does other operations, such as splenectomies, upon cases on the Blood Service.

The laboratory is in charge of a salaried director. The routine work is performed by four women technicians. An opportunity is also given to the house officers, especially those associated with the First Medical Service, to do their routine blood work in the laboratory under the supervision of the director.

The service has invited all members of the hospital staff who wish to do research work on blood problems to make use of the facilities offered by its clinic and its laboratory, and there is no reason why the same opportunity should not be enjoyed by other qualified investigators. A number of technicians and students have worked in the laboratory for short periods of time with the object of learning some special technique. In exchange for their instruction they have rendered certain services in routine work.

The following statement covers the work done in the fourteen months ending March 1, 1921. The director of the laboratory assumed his duties November 10, 1919, but real work did not begin until January 1, 1920, when the laboratory was opened and a technician went on duty.

In appraising the work of the service, it must further be remembered that a laboratory is not born suddenly in full activity. Before any serious investigative work can be started it must pass through a period of infancy in which training of assistants and gradual acquirement of physical and personal equipment takes place.

Patients under care of blood service	61
Patients seen in consultation	306
Patients seen outside the hospital	5
	<hr/>
Total patients	<u>372</u>

It should be remembered that a "consultation" so far as it relates to the Blood Service, does not mean merely the expression of an opinion based on physical examination and data already collected. In nearly every case it means extensive work by the blood laboratory.

The total number of complete blood examinations made was 667; partial examinations, 208, a total of 875. These figures represent clinical work, not experiments carried out purely for research purposes. In considering this figure, the difficult and time-consuming nature of blood work should be borne in mind. Most of the examinations included not only the usual hemoglobin estimation, corpuscle counts and examination of stained smear, but coagulation factors, and recently a platelet count as well, the whole examination often occupying several hours.

The principal work of the surgeon associated with the service is in connection with the operation of transfusion, although some major operations, including 3 splenectomies, have been done. A total of 104 transfusions, on 61 patients, have been performed. This operation is not infrequently an emergency one, which has to be done with the least possible delay. To restrict its performance to one surgeon or to a small group would be most unwise. The City Hospital should encourage every member of its Surgical Staff to acquire experience in the rather difficult technique. This accounts for the fact that the trans-

fusions were done by five different surgeons. It is interesting to note that the number of failures (where less than 100 cubic centimeters were transfused) was but 2 or 1.9 per cent.

In connection with this work the laboratory has a list of blood donors, which has averaged about 100. At present the number is but 20. The list comprises students, hospital employees, and persons in all walks of life. The blood of each donor is grouped by the Moss method and the Wassermann reaction is done, the tests being repeated from time to time. The donors are registered on a card catalogue, with addresses and telephone numbers, so that a donor of the desired group may be quickly obtained. They are paid \$50 for each transfusion of 500 cubic centimeters of blood, the money being deposited at the Superintendent's office in advance by the patient.

The laboratory has supplied serum for agglutination tests (in connection with the selection of transfusion donors) to seven hospitals in the United States and Canada, to numerous physicians in Boston and to other clinics in New England.

No organized teaching has been attempted so far, but considerable has been done in a desultory way. Members of the service have, at the invitation of instructors connected with the Tufts and Harvard Medical Schools, both graduate and undergraduate, given a number of lectures and demonstrations. During the summer months fortnightly clinics and demonstrations were held by the First Medical Service, mostly on hematological subjects, to which were invited the staff and house officers of other services, and summer students working in the wards. The work of the laboratory in training seven technicians for special blood work should be mentioned as well as the occasional instruction given to visitors.

The most important function of the laboratory and clinic is, of course, research work and in this direction the results have been most gratifying both in quantity and quality.

The following pieces of research work have been completed since January 1, 1920, and are now ready for publication:

"The Chemistry of the Erythrocytes in Pernicious Anemia and Hemorrhage." By Thomas E. Buckman, M.D., and Miss Elizabeth McNaugher.

"The Relation of Blood Volume and the Concentration of the Blood to Anemia." By Thomas E. Buckman, M.D., W. R. Ohler, M.D., and Miss L. L. Doherty.

"A Comparative Study of the Acidosis of Illuminating Gas and Methanol (Methyl Alcohol) Poisoning." By Thomas E. Buckman, M.D., and Miss L. L. Doherty.

"A New Method for the Counting of Blood Platelets." By Thomas E. Buckman, M.D., and J. E. Hallisey, M.D.

The following clinical papers have been published or are in the press:

"Hemorrhagic Diseases." *Boston Medical and Surgical Journal*, August 5, 1920. By R. C. Larrabee, M.D.

"Aplastic Anemia and Related Conditions" will shortly appear in the *Journal of the American Medical Association*. By R. C. Larrabee, M.D.

Other clinical papers on hypoplastic anemia, splenomegaly, and purpura hemorrhagica, are in course of preparation. By R. C. Larrabee, M. D.

The following further researches have been actually started and are now in progress:

"The Humoral Aspects of Pernicious Anemia and Allied Conditions." By Thomas E. Buckman, M.D., and O. H. Horrall, M.D.

"A New Method (Electrometric) for the Quantitative Estimation of the Fragility of Erythrocytes." By Thomas E. Buckman, M.D.

"Studies in the Coagulation of the Blood. The Colloidal Properties of the Thrombocytes." By Thomas E. Buckman, M.D.

"The Calcium Content of the Blood in Certain Cases of Jaundice." By Thomas E. Buckman, M.D., and J. E. Hallisey, M.D.

"The Relation of Blood Concentration and Blood Volume to Certain Types of Nephritis." By Thomas E. Buckman, M.D., and W. R. Ohler, M.D.

"The Acidosis of Pneumonia." By Thomas E. Buckman, M.D., F. D. Adams, M.D., and H. T. Edwards.

"The Nitrogen Metabolism of the Leukocytes in Leukemia." By Thomas E. Buckman, M.D., and Miss Elizabeth MacNaugher.

"The Study of the Nitrogen and Phosphorus Content of the Blood in Myelogenous Leukemia." By Thomas E. Buckman, M.D., and N. H. Stern, M.D.

DEPARTMENT OF MEDICAL-SOCIAL WORK.

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	Mrs. E. B. Young

During the winter of 1919-20 a great deal of work was done in the effort to get regular grade teaching established for the children detained in the wards for weeks of illness, during which they run the risk of loss of standing in school, with consequent failure to attain promotion and subsequent graduation. Teaching for these invalid children called for careful preliminary organization, in co-operation with the Public School Department, and the selection of the right kind of teachers with permanent appointments. In November, after a few weeks' teaching by a substitute, a permanent teacher was appointed by the School Committee, and the work established under the name of the Boston City Hospital School, taking its place as one of the special classes of the Boston public school system.

Last spring, with the idea of adding occupational therapy to the grade teaching, a group of kindergarten teachers from the Boston public schools gave a demonstration. The result was successful. Peevish, homesick children were made happier and more reconciled.

A valuable addition to the work for ward children has been the children's library, the beginning of which was made possible by a member of the private committee. A trained librarian has given regular volunteer service for eight months a year during the last two years. As the result of Miss Robinson's careful work there is now a carefully selected, thoroughly organized, children's library.

Including the director, assistant director, case workers, clerical workers, the monthly average number of paid workers during the year was $17\frac{1}{2}$, 8 of these were on the city pay roll, their salaries being supplemented by the private committee. The monthly average number of case workers, dealing directly with the patients was $13\frac{1}{2}$. Included in the $17\frac{1}{2}$ workers on the paid staff noted above, the committee paid for a librarian to carry on the work of the children's library during the summer months. The increase in the executive work of the department has made imperative the employment of a regular assistant to the director. This has diverted money which might otherwise have gone towards the increase of the scope of the work.

Outside the office staff, the case workers have been distributed approximately as follows: For medical out-patients, 2; for skin out-patients (syphilis), 1; for gynæcological and maternity out-patients, 1; in Surgical Out-Patient Building (general services, no particular clinic), 1; aural and eye out-patients (February 1 to July 15), 1; Medical House Services, adults (including Special Service), 2; Surgical House Services, adults, 1; dealing with house children, 2; Maternity and Gynæcological House Service, 2.

Work for individual patients includes both that which is recorded on social record sheets, and that which, while outside the hospital, and involving direct contact with the home and the community, is socially of a more superficial nature, and is only noted, if at all, on the medical record. This type of service includes, amongst other things, referring patients to dental and other outside clinics, certain medical follow-up visiting, putting patients

in the way of getting free medicine, etc. The monthly average of patients receiving this form of service was 200, chiefly out-patients. The number of outside visits on socially unrecorded cases was 629.

Our social record work included the following:

Number of patients dealt with	2,111
Carried over from previous year	256
New patients	1,742
Reinstated during the year	113
Number of outside visits on social record cases	4,394

The 1,855 new and reinstated patients came from the following departments and other sources:

	House.	Out-Patient Department.
Medical services, including special service	526	237
Surgical services	247	90
Gynæcological and maternity service	153	79
Skin service	6	66
Aural and throat service	2	17
Ophthalmic service	3	31
Nerve service	79	26
Genito-urinary service	0	10
Other sources within the hospital	178	4
Outside the hospital	101	0
	<hr/>	<hr/>
	1,295	560
	<hr/>	<hr/>

The table on page 42 is an effort to give some idea of the social case work with the 1,742 new patients in concrete statistical form. It is, of course, impossible to do justice to the subject by this method, and in any space at our disposal. In an effort to carry out the physicians' directions and make intelligent plans for after care, an attempt is made to find if there are underlying social causes which have contributed to the patient's physical disablement. The attempt at adjusting these "social problems" is what constitutes social case work. In most instances the work with the individual included more than one, often several, of the eleven listed. It is possible frequently to give definite service to other members of the patient's family.

SOCIAL CASE WORK.

Reasons Referred.

1. For medical follow-up to secure regular attendance in special clinics, to save eyesight, supervision of feeding, transportation to or from hospital 440
2. For institutional care on discharge, chronic progressive disease, cancer, tuberculosis of lungs, etc..... 273
3. To secure convalescent care..... 165
4. For financial investigation in order to secure medical apparatus, free treatment, loans, etc..... 126
5. For social oversight and placement, 116
6. To facilitate discharge, "no visitors," "no funds," "no friends," "no clothes," 87
- 7 For special medical care outside Boston City Hospital, at special hospitals and clinics, including extended bed care for more or less alleviable conditions, nursing care in the home, etc..... 82
8. For advice, guidance, pre and post natal care for unmarried or illegitimate pregnancy or maternity..... 80
9. To straighten out home situation, bring back a deserting father, to secure social oversight of family, etc. 72
10. To get social history to assist in medical diagnosis 54
11. For employment, change of employment, vocational guidance..... 45
12. To secure protection of individual or community because of infectious condition 41
13. For care of physically handicapped, cardiac, asthenia, loss of a limb.... 30

Underlying Social Problems.

1. Physical disablement, temporary or permanent, old age (chronically sick and poor), etc..... 622
2. Inadequate home conditions, abnormal or broken home, permanent or temporary through illness, inadequate for convalescence, etc..... 284
3. Protection of individual and community (tuberculosis, syphilis, scabies, etc.)..... 175
4. Inadequate resources or income, due to illness, unemployment, chronic poverty 162
5. Unmarried or illegitimate pregnancy or maternity..... 87
6. Temporary or permanent physical handicap, loss of limb, heart disease, necessitating selected work, etc..... 86
7. Disability, feeble-mindedness, suicidal ideas 75
8. Neglected, dependent, stubborn child, orphan, half orphan..... 70
9. Unemployment through illness, industrial disablement, unsuitable employment, unemployability, need of vocational guidance..... 45
10. Homelessness, friendlessness, social derelict 31
11. Parental irresponsibility or deserted, incompetence, ignorance..... 28
12. Misguided or unprotected minor, immorality, sex delinquency..... 23
13. Marital discord, irresponsibility..... 22
14. Drug addiction, alcoholism..... 16
15. Family disunion or discord..... 8
16. Maladjustment to environment, alien, etc. 8

What Was Done.

1. Kept track of, visited in home, secured continued medical and social oversight, interested agencies conferred with but no new agency called upon 633
2. Referred to social agency for oversight, material aid, employment, etc. 356
3. Secured care through agency or institution (chiefly public) for patients with tuberculosis of the lungs 127
4. Secured admission to other hospitals, maternity homes and other specialized institutions..... 125
5. Obtained admission to almshouse hospitals 116
6. Obtained convalescent care outside the home, including child placing through a children's agency..... 106
7. Obtained special medical treatment outside Boston City Hospital, evening and dental clinics, other outpatient departments, including social service departments..... 58
8. Secured nursing care in the home, surgical dressings, extended bed care, oversight in the home during convalescence, through District, Baby Hygiene, and school nurses 79
9. Provided loans or gifts for medical apparatus, glasses, extra diet, etc. 56
10. Referred to public relief agencies, Soldiers' Relief, department of aid and relief, or child guardianship, Overseers of the Poor for mothers' aid, etc..... 51

14. For social oversight of neglected child, to keep adolescent in school out of industry.....	30	11. Secured legal advice, through probation officer, etc.....	20
15. For material relief in family or for individual (other than medical)....	26	12. Secured employment without reference to an agency.....	15
16. For child placing, one or both parents ill, etc.....	22		
17. *For pre or post natal care and social oversight (married women)....	18		
18. To secure interpretation of hospital, to persuade relatives to allow operation, other permits, immediate hospital care, etc.....	12		
19. For care of infant, motherless, illegitimate, chronically diseased.....	10		
20. For oversight and placement of feeble-minded adult or child.....	8		
21. To secure social oversight for a sex delinquent	5		
22. To secure legal advice.....	1		
	<u>1,742</u>		<u>1,742</u>

* The majority of these cases are followed without a social record.

OUT-PATIENT DEPARTMENT.

The Out-Patient Department statistics may be found on pages 54, 56 and 59 of the Superintendent's report.

The number of patients treated in the Out-Patient Department during the past year has been 28,896. The number of visits was 118,656.

SOUTH DEPARTMENT.

During the twenty-six years that the department has been in operation, 64,263 patients have been received, nearly all ill with an infectious disease.

HAYMARKET SQUARE RELIEF STATION.

This Relief Station has been in commission nineteen years. In these nineteen years, 622,580 patients have been treated. The number of patients treated during the first year was 20,150 and during the present year, 23,971. These patients received 23,869 days' treatment.

EAST BOSTON RELIEF STATION.

In the twelve years that the East Boston Relief Station has been in operation, 154,634 patients have been treated. For the year ending January 31, 1921, 10,394 patients were treated. These patients received 28,976 days' treatment.

CONVALESCENT HOME.

The number of patients treated during the year was 261, who received 5,406 days' treatment.

WEST DEPARTMENT.

The West Department has been leased to the Government as United States Public Health Hospital No. 44.

OBITUARY.

We regret to record the death of Thomas Amory De Blois, M. D., Consulting Surgeon. He had served the

hospital since July, 1883, at which time he was appointed Assistant to the Physicians for Diseases of the Throat. In 1912, after almost thirty years' service, he resigned his position of Surgeon for Diseases of the Throat, and was appointed Consulting Surgeon. His death occurred in March, 1920.

Howard Edwin Settle, M. D., Assistant to the Ophthalmic Surgeons since November, 1919, died in December, 1920. His loss was deeply felt by his hospital associates.

Philip Coombs Knapp, M. D., Visiting Physician for Diseases of the Nervous System, died in February. The Senior Staff passed the following resolutions upon his death: "Philip Coombs Knapp died February 23, 1920, having been connected with the Boston City Hospital for practically all the years of his medical life. He graduated from Harvard College with the class of 1878, from the Harvard Medical School in 1882, and became a house officer of this hospital in May of the latter year. Scarcely had he finished his house officer's service when he received his first appointment on the Hospital Staff, and was made assistant to the ophthalmic surgeons in January, 1884. From that day until his death, he served the hospital continuously. His first appointment to the Department for Diseases of the Nervous System came to him in April, 1885, and at the time of his death he was the head of this department. He also served as a member of the Administrative Board of the hospital from its inception in 1915 to his death.

"Philip Knapp loved his books, was always surrounded by them, and was always happy with them. His memory was unusual and gave him the erudition which was his. His industry, his learning, and his natural aptitude for his profession made him a marked man in his special line of work early in his career.

"Philip Knapp was a courteous gentleman and behind his brusque manner and his near-sighted eyes was a great kindness which he was all too little able to show to many of his acquaintances. He was a brave man. When the last years of his life came, years filled with pain and

trouble, he bravely stuck to his work and never quit until actually incapacitated for further effort, a few weeks before the end.

"This hospital will miss him greatly from its staff, for his learning, industry, and natural ability made him a conspicuous figure in his profession, and these qualities, combined with his loyalty to the City Hospital and his devotion to its interests, will make his loss keenly felt."

CHANGES IN THE MEDICAL AND SURGICAL STAFF.

The resignation of Allen Greenwood, M. D., Visiting Ophthalmic Surgeon, was received with much regret. The position of Consultant in Ophthalmology was created and Doctor Greenwood appointed thereto. The following members of the staff resigned their positions: Edward R. Williams, M. D., Ophthalmic Surgeon; Leo V. Friedman, M. D., First Assistant Visiting Surgeon; MacIver Woody, M. D., Out-Patient Surgeon; John H. Blodgett, M. D., Assistant Surgeon for Diseases of Ear and Throat; William J. Daly, M. D., First Assistant Visiting Physician for Diseases of the Nervous System; Carl T. Harris, M. D., temporary Assistant to Out-Patient Surgeons.

James J. Hepburn, M. D., was promoted from the position of Assistant to Out-Patient Surgeons to that of Out-Patient Surgeon.

The following appointments were made: Ralph C. Larrabee, M. D., Chief of Staff of Medical Out-Patient Department; Edwin A. Locke, M. D., Chief of the Influenza-Pneumonia Service for the year beginning October 1, 1920; Joseph E. Hallisey, M. D., Second Assistant Visiting Physician; John A. Foley, M. D., Second Assistant Visiting Physician; William D. Reid, M. D., Second Assistant Visiting Physician; Herman A. Osgood, M. D., Assistant to the Physician for X-Ray Service; George Van Ness Dearborn, M. D., Second Assistant Visiting Physician for Diseases of the Nervous System.

The following temporary appointments were made for periods of six months. To the position of Assistant to

the Visiting Physicians: Louis J. Ullian, M. D., beginning March 12, 1920, also beginning October 29, 1920; for Pneumonia Service: Lee H. Ferguson, M. D., beginning October 29, 1920; W. L. Moss, M. D., beginning October 29, 1920. To the position of Assistant to Out-Patient Surgeons: Llewellyn H. Rockwell, M. D., beginning February 27, 1920, also beginning October 15, 1920; Thomas W. Wickham, M. D., beginning June 1, 1920; Harold Q. Gallupe, M. D., beginning June 15, 1920; Reginald D. Margeson, M. D., beginning July 1, 1920; John J. Ward, M. D., beginning August 13, 1920; Gordon D. Atkinson, M. D., beginning August 13, 1920; Albert A. Shapira, M. D., beginning January 1, 1921. To the position of Assistant to the Ophthalmic Surgeons: Joseph J. Skirball, M. D., beginning August 1, 1920. To the position of Assistant to the Surgeons for Diseases of Ear and Throat: Samuel Cline, M. D., beginning July 1, 1920. To the position of Assistant to the Physician for Diseases of the Skin: Samuel Ayers, Jr., M. D., beginning April 1, 1920. To the position of Assistant to the Physicians for Physical Therapeutics: Joseph Resnik, M. D., beginning August 27, 1920; Robert H. Meikel, M. D., beginning August 27, 1920. Arthur B. Lyon, M. D., was appointed Assistant to the Visiting Physicians for seven months beginning January 7, 1921, for the care of children on the Pneumonia Service, he being salaried.

PUBLICATIONS OF THE MEDICAL AND SURGICAL STAFF.

Following is a list of the scientific papers published, or read before a medical meeting, by members of the Hospital Staff during the past year:

"The Association, Its Aims and Membership." By Dr. Franklin W. White. Presidential address delivered at the 1920 meeting of the American Gastro-Enterological Association at Atlantic City, 1920.

"The Modern Examination of the Stomach." By Dr. Franklin W. White. Annual oration of the Maine Medical Society, 1920, also published in *Clinics of North America*, September, 1920.

"Diaphragmatic Hernia of the Stomach, with Report of Congenital Cases." By Dr. Franklin W. White. Read before the American Gastro-Enterological Association at Atlantic City, 1920.

"Notes on Typhus." By Drs. John Palfrey and S. Burt Wolbach. Preliminary report of the Typhus Research Commission of the League of Red Cross Executives in Poland.—*International Journal of Public Health*, September, 1920.

"Aplastic Anemia and Related Conditions." By Dr. Ralph C Larrabee.—*Journal of American Medical Association*, December, 1920.

"Cardio Spasm." By Dr. Paul F. Butler.—*American Journal of Roentgenology*, September, 1920.

"Acute Cardiac Symptoms and Treatment." By Dr. Thomas J. O'Brien. Read before Boston University Medical Society, January, 1921.

"Scarlet Fever and the Tonsils." By Dr. Edwin H. Place. Read before the New York Medical Society, March, 1920.

"An Atypical Case of Pneumonia." By Dr. Martin J. English. *Clinics of North America*, September, 1920.

"Encephalitis." By Dr. Albert A. Hornor. *Clinics of North America*, September, 1920.

"Lobar Pneumonia, Analysis of 400 Autopsies." By Dr. Frank B. Berry. *Clinics of North America*, September, 1920.

"A Nephritic Diet Sheet." By Drs. Edmund F. Walsh and James P. O'Hare.—*American Journal of Medical Science*, June, 1920.

"Aneurysm of the Descending Aorta." By Dr. William H. Robey. *Clinics of North America*, September, 1920.

"Empyema Complicating Pneumonia." By Dr. Edwin A. Locke. *Clinics of North America*, September, 1920.

"Renal Function Tests. Their Clinical Application." By Dr. William R. Ohler. *Clinics of North America*, September, 1920.

"Studies in Sugar Metabolism." By Dr. William R. Ohler. Read before Association for the Advancement of Clinical Sciences, May, 1920.

"Cirrhosis of the Liver, Showing Jaundice and Ascitis. An Analytic Study of 117 Cases." By Dr. H. Archibald Nissen. *Clinics of North America*, September, 1920.

"Cardiac Irregularities." By Dr. Joseph M. Lynch. Read before Dorchester Medical Society, October, 1920.

"Pneumococcus Type No. 1, Vegetative Endocarditis. Report of a Case Following an Attack of Lobar Pneumonia." By Drs. Henry M. Thomas and Dwight O'Hara. *Bulletin of the Johns Hopkins Hospital*, November, 1920.

"Remarks Made at the Closing Session of the Inter-Allied Sanitary Commission, Paris." By. Dr. Richard P. Strong. Reprinted in *Boston Medical and Surgical Journal*, January, 1921.

"A Brief Experience with Appendicostomy and Cecostomy for Intestinal Stasis in Epilepsy and Neurasthenia." By Dr. Franklin W. White.—*The American Journal of the Medical Sciences*, August, 1920.

"Treatment of Surgical Shock in the Zone of the Advance." By Dr. W. Richard Ohler.—*The American Journal of the Medical Sciences*, June, 1920.

"Difficulties in the Diagnosis of Meningitis." By Dr. Harold W. Dana.—*The Boston Medical and Surgical Journal*, January, 1920.

"The Type Cell of the So-called Endothelioma." By Dr. Frank B. Mallory.—*The Journal of Medical Research*, March, 1920.

"The Regeneration of Smooth Muscle Cells." By Dr. Frank B. Berry.—*The Journal of Medical Research*, March, 1920.

"Report of the Committee on the Direct Galvanic Current." By Dr. Frank B. Granger.—*The American Journal of Electro-Therapeutics and Radiology*, October, 1920.

"Report of the Committee on Research and Physiotherapy." By Dr. Frank B. Granger.—*The American Journal of Electro-Therapeutics and Radiology*, November, 1920.

"The Relation of Physiotherapy to Industrial Medicine." By Dr. Frank B. Granger.—*The American Journal of Electro-Therapeutics and Radiology*, January, 1921.

"Specific Aortitis." By Dr. William D. Reid.—*Boston Medical and Surgical Journal*, July 15, 1920.

"Doctors in Uniforms." By Dr. Harold W. Dana.—*Boston Medical and Surgical Journal*, May 20, 1920.

"The Diagnosis and Treatment of the Hemorrhagic Diseases." By Dr. Ralph C. Larrabee.—Read at Massachusetts Medical Society, June 8, 1920. *Boston Medical and Surgical Journal*, August 5, 1920.

"The Use of the Serum of Convalescents in the Treatment of Influenza-Pneumonia. A summary of the Results in a Series of 101 Cases." By Dr. George P. Sanborn.—*Boston Medical and Surgical Journal*, August 5, 1920.

"Observations on the Agglutinating Titre of the Blood Serum in Typhoid Fever." By Dr. Dwight O'Hara.—*Boston Medical and Surgical Journal*, July 15, 1920.

"Studies on Arthrites in the Army, Based on 400 Cases. Studies in the Relation of Creating Metabolism to Arthrites." By Dr. Thomas E. Buckman with Dr. Ralph Pemberton. *Archives of Internal Medicine*, April, 1920.

"Lobar Pneumonia in Relation to Industry." By Dr. Cadis Phipps. Read before the Massachusetts Medical Examiners' Society, April, 1920.

"Incidence of Diabetes Mellitus Following Trama." By Dr. Cadis Phipps. Read before The Massachusetts Medical Examiners' Society, April, 1920.

"Surgical Aspects of the Charcot Joint and Other Syphilitic Bone and Joint Lesions." By Dr. Frederic J. Cotton. *Annals of Surgery*, October, 1920.

"Infections of Bones and Joints." By Dr. Frederic J. Cotton. *Surgery, Gynæcology and Obstetrics*, September, 1920.

"Suggestions Regarding the Early Diagnosis of Acute Appendicitis." By Dr. Edward H. Nichols. *Clinics of North America*, September, 1920.

"Enlarged Mesenteric Lymph Nodes." By Dr. Howard M. Clute.—*Boston Medical and Surgical Journal*, September, 1920.

"Diagnosis and Management of Intrathoracic Goitres." By Dr. Frank H. Lahey. Read before Section on Surgery, American Medical Association, April, 1920.

"Goitre." By Dr. Frank H. Lahey.—*The Journal, Maine Medical Association*, December, 1920.

"Traumatic Spleens, Report of Case Histories with Discussion and Summary." By Dr. Francis F. Henderson.—*Boston Medical and Surgical Journal*, November, 1920.

"Enucleation of the Eyeball and Its Substitute Operations." By Drs. Allen Greenwood and John E. Weeks (New York). *Surgery, Gynæcology, and Obstetrics*, April, 1920.

"The Surgical Treatment of Acute Empyema by Valve Drainage, Provided by Flap of Skin, Fascia and Muscle,

Under Local and Paravertebral Anæsthesia." By Dr. William Reid Morrison.—*Boston Medical and Surgical Journal*, April, 1920.

"Placental Tumor." By Dr. Reginald D. Margeson.—*Boston Medical and Surgical Journal*, February, 1920.

"Loss of Both Eyes from the Exophthalmos of Hyperthyroidism." By Dr. Frank H. Lahey.—*Boston Medical and Surgical Journal*, April, 1920.

"A Case of Infection of the Knee Joint Treated by Early and Continuous Active Motion." By Dr. Fred B. Lund.—*Boston Medical and Surgical Journal*, June 17, 1920.

"Fat Transplantation After Excision of Cicatricial Contraction of Lower Jaw." By Dr. William Reid Morrison.—*Boston Medical and Surgical Journal*, May 20, 1920.

"Prostatectomy at the Boston City Hospital from the Proceedings of the New England Branch of the American Urological Association." By Dr. Herbert H. Howard.—*Boston Medical and Surgical Journal*, January, 1921.

Chapters on "Idiocy," "Hydrocephalus," "Cerebral Paralysis of Children." By Dr. John J. Thomas. For *Nelson's Loose Leaf System of Medicine*, 1920.

"The Nervous Housewife." (A book published by Little, Brown & Co.) By Dr. Abraham Myerson.

"The Nervousness of the Jew." By Dr. Abraham Myerson. *Mental Hygiene*, July, 1920.

"Out-Patient Psychiatry." By Dr. Abraham Myerson.—*American Journal of Insanity*, September, 1920.

"Report of Neurological Sequelæ of Influenza in the Boston City Hospital, Neurological Out-Patient Department, from July, 1918, to July, 1919." By Dr. Mabel D. Ordway.—*Boston Medical and Surgical Journal*, February 19, 1920.

"Chronic Purulent Otitis Media of the Intermittent Type." By Dr. Charles R. C. Borden. Read before New England Oto-Laryngological Association, April, 1920.

"Interpretation of the Wassermann Reaction." By Dr. William P. Boardman.—*The Boston Medical and Surgical Journal*, November, 1920.

"Review of Untoward Effects Following Arspenamine and Its Derivatives." By Dr. William P. Boardman.—*Boston Medical and Surgical Journal*, November, 1920.

"The Skin Lesion in Measles." By Drs. F. B. Mallory and E. M. Medlar.—*The Journal of Medical Research*, March, 1920.

"Practical Massage and Corrective Exercises." By Mr. Hartvig Nissen. Fourth Revised Edition, Text Book.

HOUSE OFFICERS.

The Herbert L. Burrell ether prize, given for administering anæsthetics in the most skillful and humane manner, was awarded to Richard Ilsley Smith, M. D., House Officer on the Second Surgical Service.

CHANGES IN RULES.

The rules were changed by the creation of the following positions:

Consultant in Ophthalmology.

Chief of Staff of the Medical Out-Patient Department.

Chief of the Influenza-Pneumonia Service.

An additional position of Second Assistant Visiting Physician for Diseases of the Nervous System.

House Officer in the X-Ray Department.

The following rules were made:

"A preoperative or provisional diagnosis shall be made by the visiting physician or surgeon and incorporated in the records of every case admitted to the hospital."

"All children admitted to the Surgical Wards shall be examined by a resident physician of the South Department for the determination of any possible contagious disease."

The Department of Physical Therapeutics was put on full time service, from nine o'clock a. m. to five o'clock p. m.

GIFTS AND BEQUESTS.

Grateful acknowledgment is made of the following gifts and bequests:

Mr. Thomas A. Forsyth presented a dental engine to the hospital; also \$25 to aid the work in occupational therapy.

The family of the late Hon. A. Shuman presented the hospital with a fine bronze bas relief of Mr. Shuman. This has been placed upon the wall of the Administration Building.

A legacy of \$5,000, together with \$215.67 interest money, was received from the estate of Mr. Timothy Smith under a decree of court; this \$5,000 to be kept as a permanent fund, the income therefrom to be used "for the purpose of maintaining and conducting" the hospital. The trustees voted that the \$5,000 be called the "Smith Fund," and that this interest, together with other interest which may accrue, be used for the purpose of providing special nurses when needed.

The Federated Jewish Charities presented a voucher for \$250, payable to the Social Service Department.

Mr. George H. Townsend gave the hospital a check for \$50 to express gratitude for the care received by himself and one of his employees at the Haymarket Relief Station. A rug was purchased for the Relief Station with this money.

A donation of six cases of dressings was received from the American Red Cross.

The trustees sincerely appreciate the continued interest and generous aid rendered to the hospital by his Honor the Mayor and the City Council; the devotion of the Medical and Surgical Staffs and their skillful care and treatment of the sick, and the faithful and efficient work of the Superintendent and his assistants.

Respectfully submitted,

JOSEPH P. MANNING, *President.*

THOMAS A. FORSYTH, *Secretary.*

HENRY S. ROWEN, M. D.

GEORGE G. SEARS, M. D.

CARL DREYFUS.

REPORT OF THE SUPERINTENDENT AND MEDICAL DIRECTOR.

BOSTON CITY HOSPITAL, February 1, 1921.

To the Trustees:

GENTLEMEN,—I present herewith the annual report of the Hospital Department for the year ending January 31, 1921.

. On June 1, 1864, the Boston City Hospital was opened for the admission of patients. Since that time the number of house patients treated in the different departments has been 513,289 and the number of out-patients 1,955,271. The table on page 56 shows the number of patients who have been treated in the hospital proper and the South Department during the last ten years. The principal statistics for the year are shown on pages 58 and 59. The other tables are self-explanatory.

Patients admitted to the hospital according to services:

Medical services	3,736
Special pneumonia service	554
Surgical services	7,514
Ophthalmic service	112
Aural and laryngological service	1,734
Neurological service	733
Dermatological service	106
Total	14,489

Number of visits of patients to the hospital for advice and treatment in the Out-Patient Departments:

Medical diseases	13,713
Surgical diseases	68,859
Diseases of the eye	7,561
Diseases of the ear and throat	9,735
<i>Carried forward</i>	99,868

<i>Brought forward</i>	99,868
Diseases of the skin	10,439
Diseases of women and obstetrical service	3,352
Diseases of the nervous system	1,679
X-Ray diagnosis and treatment	10,178
Physical therapeutics treatment	6,248
Vaccine and serum inoculation:	
Visits of out-patients	2,593
Visits of nurses and others for protective inoculation against typhoid and para- typhoid	229
	<hr/> 2,822
Diabetic treatment	968
Dental service	244
Surgical out-patients treated in Accident Room, not elsewhere included	1,872
	<hr/>
Total	137,670
Less visits counted more than once:	
In X-Ray Department	10,178
In Department of Physical Therapeutics (estimated)	5,948
In Vaccine and Serum Therapy Depart- ment	2,593
In Dental Department	244
In Diabetic Laboratory (estimated)	51
	<hr/> 19,014
	<hr/>
Total visits	<u><u>118,656</u></u>

TABLE OF ADMISSIONS AND DEATHS FROM FEBRUARY 1, 1911, TO JANUARY 31, 1921.
Hospital Proper and South Department.

	Patients Admitted.	Patients Accidentally Injured Admitted.	Number of Out-Patients Treated.	Number of Patients in Hospital at Beginning of Year.	Number of Ward Patients Treated.	Died.	Rate of Mortality.
February 1, 1911, to January 31, 1912	13,033	1,232	38,129	744	13,777	1,611	.117
February 1, 1912, to January 31, 1913	14,236	1,420	42,309	779	15,015	1,609	.107
February 1, 1913, to January 31, 1914	15,237	1,362	47,385	933	16,170	1,696	.105
February 1, 1914, to January 31, 1915	16,408	1,410	43,891	893	17,391	1,671	.096
February 1, 1915, to January 31, 1916	18,456	1,508	39,351	949	19,405	1,760	.091
February 1, 1916, to January 31, 1917	19,800	1,328	35,867	935	20,735	1,885	.091
February 1, 1917, to January 31, 1918	20,753	2,262	34,297	859	21,612	1,948	.090
February 1, 1918, to January 31, 1919	19,982	1,799	29,488	929	20,911	2,434	.116
February 1, 1919, to January 31, 1920	17,593	1,577	31,103	861	18,454	1,382	.075
February 1, 1920, to January 31, 1921	16,406	1,215	28,896	902	17,308	1,359	.079

The total number of patients admitted to the wards since the opening of the hospital and South Department has been 478,040 and the number of out-patient has been 1,202,284.

HOSPITAL PROPER.

APPLICANTS EXAMINED FOR ADMISSION DURING THE YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1920.	February.....	1,347	1,211	36
	March.....	1,349	1,200	27
	April.....	1,275	1,253	22
	May.....	1,656	1,648	18
	June.....	1,098	989	17
	July.....	1,170	1,149	21
	August.....	1,227	1,194	33
	September.....	1,290	1,290	30
	October.....	1,213	1,201	32
	November.....	1,250	1,215	15
	December.....	1,345	1,322	13
	1921.	January.....	1,422	1,395	7
	Totals.....	14,702	14,456	243

HOSPITAL PROPER.

PRINCIPAL STATISTICS, 1920-21.

Number of Patients.

Number of patients remaining in the hospital proper January 31, 1920	642
---	-----

Admitted from February 1, 1920 to January 31, 1921,
inclusive:

Medical	3,736	
Special, pneumonia	554	
Surgical	7,514	
Ophthalmic	112	
Aural and laryngological	1,734	
Neurological	733	
Dermatological	106	
	—	14,489
<hr/>		
Treated during the year		15,131
Discharged during the year	13,217	
Died during the year	1,211	
	—	14,428
<hr/>		

Number of patients remaining in the hospital proper January 31, 1921	703
Number of births during the year	406
Number of deaths within forty-eight hours of ad- mission	463
Largest number of patients in the hospital on any one day	728
Smallest number of patients in the hospital on any one day	453
Daily average number of patients	575.7
Average number of days' stay of patients	13.9
Number of weeks' treatment given in hospital	30,103
Number of days' treatment given in hospital	210,724

Number of applicants for admission to hospital	14,732
Number of applicants rejected	243
Number of visits made by out-patients	118,656
Patients carried in ambulances	5,416
Number of patients accidentally injured, admitted to the wards	1,215
Number of out-patients treated in the Accident Room	1,872

Number of out-patients treated in the Out-Patient Departments, classified according to diseases:

For medical diseases	4,717
For surgical diseases	10,522
For diseases of the eye	2,325
For diseases of the ear and throat	3,967
For diseases of the skin	2,028
For diseases of women and obstetrical service	1,049
For diseases of the nervous system	787
For physical therapeutics (estimated)	4,000
For X-ray diagnosis and treatment	10,178
For vaccine and serum inoculation:	
Out-patients treated	426
Nurses and others receiving protective typhoid and paratyphoid inoculations,	80
	506
Diabetic cases	126
Dental cases	214
Surgical out-patients treated in Accident Room, not elsewhere included	1,872
	<hr/>
Total	42,291
Less patients counted more than once:	
In X-Ray Department	8,731
In Vaccine and Serum Therapy Depart- ment	426
In Physical Therapeutics Department (estimated)	3,950
In Diabetic Clinic	74
In Dental Service	214
	<hr/>
	13,395
	<hr/>
Total number of out-patients treated	<u>28,896</u>

PRESENT CAPACITY OF THE HOSPITAL DEPARTMENT.

The schedule of beds is as follows:

Hospital proper	794
South Department	334
Haymarket Square Relief Station	24
East Boston Relief Station	10
Convalescent Home	34
	1,196

The distribution of beds in the Main Department is as follows:

SERVICES.	WARD.					PRIVATE.				Grand Totals.
	Males.	Females.	Children.	Promiscuous.	Totals.	Males.	Females.	Promiscuous.	Totals.	
Surgical:										
Gynæcological and Obstetrical		51			51		4		4	55
Other Surgical	161	64	39		264	2	6		8	272
Medical	204	141	39		384					384
Aural and Laryngological	4	4			8					8
Ophthalmic				8	8					8
Neurological	2	6			8					8
All Services	18			30	48			11	11	59
Totals	389	266	78	38	771	2	10	11	23	794

STATISTICS OF PATIENTS ACCORDING TO SERVICES.
February 1, 1920, to January 31, 1921, Inclusive.

SERVICES.	In Hospital February 1, 1920.	Admitted.	Discharged.	Died.	Total Discharged and Died.	In Hospital February 1, 1921.
First Surgical.....	48	1,358	1,254	98	1,352	54
Second Surgical.....	53	1,279	1,195	78	1,273	59
Third Surgical.....	51	1,304	1,205	95	1,300	55
Fourth Surgical.....	48	1,203	1,132	61	1,193	58
Fifth Surgical.....	75	2,370	2,214	112	2,326	119
First Medical.....	60	839	722	115	837	62
Second Medical.....	58	997	886	111	997	58
Third Medical.....	53	1,054	918	141	1,059	48
Fourth Medical.....	46	846	736	100	836	56
Special — Pneumonia.....	92	554	456	152	608	38
Ophthalmic.....	6	112	111	.....	111	7
Aural and Laryngological.....	16	1,734	1,719	7	1,726	24
Neurological.....	27	733	568	134	702	58
Dermatological.....	9	106	101	7	108	7
Totals.....	642	14,489	13,217	1,211	14,428	703

RECEIPTS AND EXPENDITURES.

Receipts.

City appropriations	\$1,196,066 69	
	50,000 00	
	<hr/>	\$1,246,066 69
Interest on trust funds		2,515 67
		<hr/>
		\$1,248,582 36
Deduct:		
Balance returned to city treasury		9,291 07
		<hr/>
		<u>\$1,239,291 29</u>

Expenditures.

Hospital proper and its subdivisions	\$786,194 16
Out-Patient Department	84,028 21
South Department	259,577 47
Haymarket Square Relief Station	63,797 19
East Boston Relief Station	32,610 56
Convalescent Home	13,083 70
	<hr/>
	<u>\$1,239,291 29</u>

APPLICANTS NOT ADMITTED DURING THE YEAR.

February 1, 1920, to January 31, 1921, Inclusive.

	At First Rejected.	Admitted Later.	Finally Rejected.
<i>Cause of Rejection.</i>			
Self-rejected or deferred	457		137
Self-rejected or deferred but admitted within three days		205	
Self-rejected or deferred but admitted later		115	
State settlement	137		66
State settlement but admitted within three days		55	
State settlement but admitted later		16	
For want of accommodation	82		22
For want of accommodation but admitted within three days		31	
For want of accommodation but admitted later		29	
Nonresident	24		11
Nonresident but admitted within three days		10	
Nonresident but admitted later		3	
For lack of sufficient information	4		4
Referred to other public institutions	5	2	3
Totals	709	466	243

RECORD OF AMBULANCE WORK.

*February 1, 1920, to January 31, 1921, Inclusive.**Transportation to the Hospital.**Trips to:*

Business center	360
North End	191
West End	262
Back Bay	144
South End	671
Roxbury	818
West Roxbury	55
Dorchester	534
South Boston	308
East Boston	487
Charlestown	392
Jamaica Plain	150
<i>Carried forward</i>	<i>4,372</i>

RECORD OF AMBULANCE WORK.—*Concluded.*

<i>Brought forward</i>	4,372
Brighton	125
Roslindale	62
Hyde Park	72
South Department	69
Total trips in	4,700
Did not come	75
Patients brought	<u>4,625</u>

Transportation from the Hospital.

Convalescent Home	246
Patients' homes	160
Other hospitals	297
Trips out	703
Carried extra	88
Patients carried	<u>791</u>

Summaries.

Total number of trips	5,403
Total patients transferred	<u>5,416</u>

*Record of Limousine Trips for Physicians and Surgeons,**In bringing:*

The physician and the surgeon	<u>343</u>
---	------------

Number of miles the ambulances have run, as shown

by odometer count, in all departments	<u>32,989</u>
---	---------------

CENSUS OF DAYS' BOARD OF ALL PERSONS.

February 1, 1920, to January 31, 1921, Inclusive.

	Patients.	Officers and Employees.	Total Days' Board.
Hospital Proper	210,724	180,788	391,512
South Department	66,233	48,879	115,112
Haymarket Square Relief Station	1,972	11,655	13,627
East Boston Relief Station	1,378	5,481	6,859
Convalescent Home	5,406	2,775	8,181
Totals	285,713	249,578	535,291

DAILY AVERAGE OF PERSONS.

	Patients.	Officers and Employees.	All Persons.
Hospital Proper.....	575.7	494.0	1,069.7
South Department.....	181.0	133.5	314.5
Haymarket Square Relief Station.....	5.4	31.8	37.2
East Boston Relief Station.....	3.7	15.0	18.7
Convalescent Home.....	11.8	7.6	22.4
Totals.....	780.6	681.9	1,462.5

MAXIMUM AND MINIMUM NUMBER OF DAYS' BOARD
GIVEN.

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	All Departments.
Maximum number of days' board of patients.....	728	269	13	12	29	.....
Minimum number of days' board of patients.....	453	91	0	0	5	.....
Maximum number of days' board of persons.....	1,261	414	46	27	37	1,744
Minimum number of days' board of persons.....	865	189	27	14	12	1,179

HOSPITAL PROPER.

NATIVITY OF PATIENTS ADMITTED DURING THE YEAR.

Boston	5,572	<i>Brought forward</i>	7,691
Other cities and towns in Massa- chusetts	1,388	Other States	781
Maine	305	Ireland	1,519
New Hampshire	171	British Provinces	916
Vermont	89	Russia	676
Rhode Island	90	Italy	530
Connecticut	76	England	246
		Poland	127
		Sweden	106
<i>Carried forward</i>	7,691	<i>Carried forward</i>	12,592

NATIVITY OF PATIENTS ADMITTED DURING THE YEAR.—
Concluded.

<i>Brought forward</i>	12,592	<i>Brought forward</i>	13,216
Scotland	88	Asia Minor	4
Germany	75	Barbadoes	4
Greece	49	Bohemia	3
British West Indies	45	Galicia	3
Austria	42	South America	3
Portugal	32	Mexico	2
France	30	Netherlands	2
Lithuania	29	India	2
Norway	28	Porto Rico	2
Armenia	27	Azores	1
Syria	25	St. Michael Island	1
Holland	22	Buenos Ayres	1
Turkey	15	Servia	1
Roumania	12	Prussia	1
Denmark	11	Constantinople	1
Belgium	11	Ukramia	1
Cape Verde Islands	11	Sicily	1
China	11	Liberia	1
Jamaica	10	Monte Carlo	1
Finland	10	Bahama Islands	1
Albania	9	Europe	1
Spain	8	Bermuda	1
Philippine Islands	7	Czecho Slovakia	1
Switzerland	6	Unknown	1,234
Hungary	6		
Wales	5	<i>Total</i>	<u>14,489</u>
<i>Carried forward</i>	<u>13,216</u>		

CONDITION OF PATIENTS DISCHARGED DURING THE YEAR.

Well	1,646	<i>Brought forward</i>	13,212
Relieved	9,937	Not treated	5
Not relieved	1,629	Died	1,211
<i>Carried forward</i>	<u>13,212</u>	<i>Total</i>	<u>14,428</u>

SOUTH DEPARTMENT.

NATIVITY OF PATIENTS ADMITTED TO THE SOUTH DEPARTMENT DURING THE YEAR.

Boston	1,124	<i>Brought forward</i>	1,697
Other cities and towns in Massachusetts	287	Russia	4
Maine	41	Norway	3
New Hampshire	20	Portugal	3
Vermont	12	France	2
Rhode Island	12	Denmark	2
Connecticut	12	Belgium	1
Other States	69	Poland	1
British Provinces	66	Panama	1
Ireland	27	Scotland	1
Italy	13	Syria	1
England	9	Greece	1
Sweden	5	Germany	1
		Armenia	1
		Unknown	198
<i>Carried forward</i>	1,697	Total	<u>1,917</u>

CONDITION OF PATIENTS DISCHARGED FROM THE SOUTH DEPARTMENT DURING THE YEAR.

Well	1,633	<i>Brought forward</i>	1,753
Relieved	99	Died	148
Not relieved	21		
<i>Carried forward</i>	1,753	Total	<u>1,901</u>

PRINCIPAL STATISTICS FOR THE YEAR FEBRUARY 1, 1920, TO JANUARY 31, 1921.

Number of patients remaining in the South Department January 31, 1920	260
Admitted from February 1, 1920, to January 31, 1921,	1,917
Treated during the year	2,177
Discharged during the year	1,753
Died during the year	148
	<u>1,901</u>
Number of patients remaining January 31, 1921	276

Maximum number of patients at any one time	269
Minimum number of patients at any one time	91
Daily average number of patients	181
Average number days' stay of patients	30.4
Number of days' treatment given patients	66,233
Number of weeks' treatment given patients	9,462
Number of patients admitted over fifteen years of age,	329
Average age of patients	9
Number of patients dying within forty-eight hours of admission	60
Percentage of deaths to discharges	7.79
The death rate from all diseases	6.80
The death rate from all diseases deducting deaths within twenty-four hours of admission	5.01
Number of applicants examined for admission	2,224
Number of applicants rejected	327
Number of patients carried in ambulances	1,569

If a comparison is made between the South Department and the hospital proper as to the number of days' board given patients, it will be found that at the former it is 66,233, while at the latter it is 210,724.

APPLICANTS EXAMINED FOR ADMISSION DURING THE YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1920.	February.....	259	211	48
	March.....	212	185	27
	April.....	200	169	31
	May.....	209	181	28
	June.....	175	149	26
	July.....	162	142	20
	August.....	109	95	14
	September.....	105	92	13
	October.....	136	120	16
	November.....	160	143	17
	December.....	229	207	22
	1921.	January.....	288	223	65
	Totals.....	2,244	1,917	327

APPLICANTS NOT ADMITTED DURING THE YEAR.
 February 1, 1920, to January 31, 1921, Inclusive.

CAUSE OF REJECTION.	1920. February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1921. January.	Totals.
Self-rejected.....	8	9	8	10	4	3	3	2	1	6	5	3	62
No infectious disease.....	13	7	16	16	18	17	11	10	14	8	10	27	167
Want of accommodation.....	...	* 1	...	† 1	† 1	...	...	...	...	...	...	† 1	4
Parotitis §.....	3	1	1	...	1	...	...	...	...	2	1	1	10
Rubella §.....	1	...	...	...	...	...	...	...	...	...	...	1	2
Varicella §.....	1	...	...	...	...	...	...	...	...	...	2	7	10
Scarlet fever ||.....	11	3	...	...	...	...	...	...	...	...	...	...	14
Pertussis.....	3	1	6	1	2	...	...	1	1	...	3	3	21
Measles ¶.....	8	5	...	...	...	...	...	...	...	1	...	18	32
Diphtheria ||.....	...	...	...	...	...	...	...	...	...	...	...	4	4
Died before admission.....	...	...	...	...	...	...	...	...	...	...	1	...	1
Totals.....	48	27	31	28	26	20	14	13	16	17	22	65	327

* Case of pertussis no isolation room.
 † Cases of scarlet fever and varicella; no isolation room.
 ‡ Case of diphtheria; no isolation room.
 § No wards for these diseases.
 || Scarlet fever and diphtheria wards filled to capacity.
 ¶ No isolation room.

RECORD OF AMBULANCE WORK IN BRINGING PATIENTS
 TO SOUTH DEPARTMENT DURING THE YEAR.

Trips to:

Business center	5
North End	38
West End	127
Back Bay	36
South End	263
Roxbury	327
West Roxbury	4
Dorchester	232
South Boston	130
East Boston	105
Charlestown	85
Jamaica Plain	42
Brighton	53
Roslindale	8
Hyde Park	21
Suburban towns	2
Total number of trips	1,478
Carried extra	131
Patients rejected	40
Total patients carried	1,569

Table No. 1.

DISBURSEMENTS ACCORDING TO VARIOUS SUBDIVISIONS.

	The Boston City Hospital.	Out-Patient Department.	Pathological Department.	X-Ray and Photographic Department.	Department of Physical Therapeutics.	Clinical Laboratories.	Blood Laboratory.	Vaccine and Serum Therapy Department.	Department of Medical Social Work.	Settlement Account.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	Totals.
Subsistence supplies	\$201,649 38										\$56,777 31	\$10,658 58	\$3,473 61	\$4,406 31	\$276,965 19
Fuel	79,110 15	\$10,736 42	\$5,368 23	\$1,342 03							40,142 10	3,572 11	1,485 22	741 58	142,497 84
Medical supplies	67,247 84	3,545 23	1,925 75	13,326 08	\$3,823 27	\$900 00	\$1,266 82	\$881 00			2,456 59	3,911 24	2,341 43	131 52	101,756 77
Salaries and labor	294,453 96	26,965 68	18,336 80	9,848 93	878 04	3,759 33	2,632 86	1,428 19	\$7,849 09	\$401 83	102,335 73	34,572 73	18,204 29	6,037 97	527,705 43
Buildings, repairs	20,872 42	510 67	263 27	71 20	17 75			300 16	75		30,089 74	850 60	684 83	178 88	53,840 27
Grounds	1,280 42										584 95	99 43	18 00	76 46	2,059 26
Ice	3,610 10										733 81	549 25	376 57	283 56	5,553 29
Electric lighting, power and gas	7,428 61	255 50	251 12	77 11			60 39	56 96			772 76	1,447 99	672 71	318 88	11,342 03
Soaps, cleansing stuffs, matches, etc.	4,442 64	88 26	62 27	5 86			44				1,052 28	178 10	60 90	128 31	6,019 06
Furniture, furnishings and fixtures	19,079 57	421 45	380 98	167 09	104 50	58	47 60	250 04		107 98	2,571 76	642 58	127 33	294 17	24,195 63
Beds and bedding	16,563 50	211 46	23 93	5 97							2,865 33	735 05	39 68	64 90	20,509 82
Dry goods, uniforms and clothing	10,489 36	62 97	131 29	10 35			30 42				2,637 20	640 10	128 37	197 10	14,327 16
Stationery, printing, postage and advertising	7,549 62	1,514 77	183 68	795 95			5 61	2 75	225 73	516 19	1,359 72	575 07	273 47	37 93	13,040 49
Transportation, cartage and freight	751 44	23 33	25 91	28 68	23 33						21 61	277 00	188 00	46 50	1,899 30
Telephones and telegraphs	2,009 63	123 62	24 72						618 11	123 62	1,322 10	417 60	192 11	54 29	4,885 80
Laundry repairs, etc.	9,792 46	452 20									1,242 44	680 84	339 15	10 86	12,517 95
Garage and ambulance	7,603 73										2,377 67	3,145 75	3,484 89	73 08	16,685 12
Barn and live stock			506 02											1 40	507 42
Training School for Nurses	413 31										56 39				469 70
Annual reports	369 29										98 16				467 45
Loose leaf records: general expenses	1,665 08											48 32			1,713 40
Incidentals	310 25		1 66	21 00											332 91
Totals	\$756,692 76	\$44,911 56	\$27,485 63	\$25,700 25	\$4,846 89	\$4,659 91	\$4,044 14	\$2,919 10	\$9,207 18	\$1,149 62	\$249,497 65	\$63,002 34	\$32,090 56	\$13,083 70	\$1,239,291 29
Adjustment:															
(A) Pathological Department (\$27,485.63)	\$17,315 95	\$274 86									\$9,619 97	\$274 85			
(B) X-Ray and Photographic Department (\$25,700.25)	\$15,420 15	\$10,280 10													
(C) Department of Physical Therapeutics (\$4,846.89)	\$1,211 72	\$3,635 17													
(D) Clinical Laboratories (\$4,659.91)	\$2,795 95	\$1,863 96													
(E) Blood Laboratory (\$4,044.14)	\$3,639 73	\$404 41													
(F) Vaccine and Serum Therapy Department (\$2,919.10)	\$583 82	\$2,335 28													
(G) Department of Medical-Social Work (\$9,207.18)	\$5,524 31	\$3,682 87													
(H) Settlement Account (\$1,149.62)	\$689 77										\$459 85				
Totals	\$803,874 16	\$67,388 21									\$259,577 47	\$63,277 19	\$32,090 56	\$13,083 70	\$1,239,291 29
Charged from hospital on account of board of employees to:															
Out Patient Department \$16,640 00		+ 16,640 00													
Haymarket Square Relief Station 520 00												+ 520 00			
East Boston Relief Station 520 00													+ 520 00		
		-17,680 00													
Total operating expenses	\$786,194 16	\$84,028 21									\$259,577 47	\$63,797 19	\$32,610 56	\$13,083 70	\$1,239,291 29
Deduct for new construction											17,921 61				
											\$241,655 86				
Deduct increase in stock on hand more than February 1, 1920	11,013 00											216 00		36 00	11,936 19
Add decrease in stock on hand less than February 1, 1920											7,596 00		74 00		8,341 19
Amount properly chargeable to maintenance	\$775,181 16	\$84,028 21									\$249,251 86	\$63,581 19	\$32,684 56	\$13,047 70	\$1,235,696 29
Cost per day per ward patient	3 68										3 76	3 66	3 66	2 41	
Cost per visit per out-patient		71										2 57	1 00		

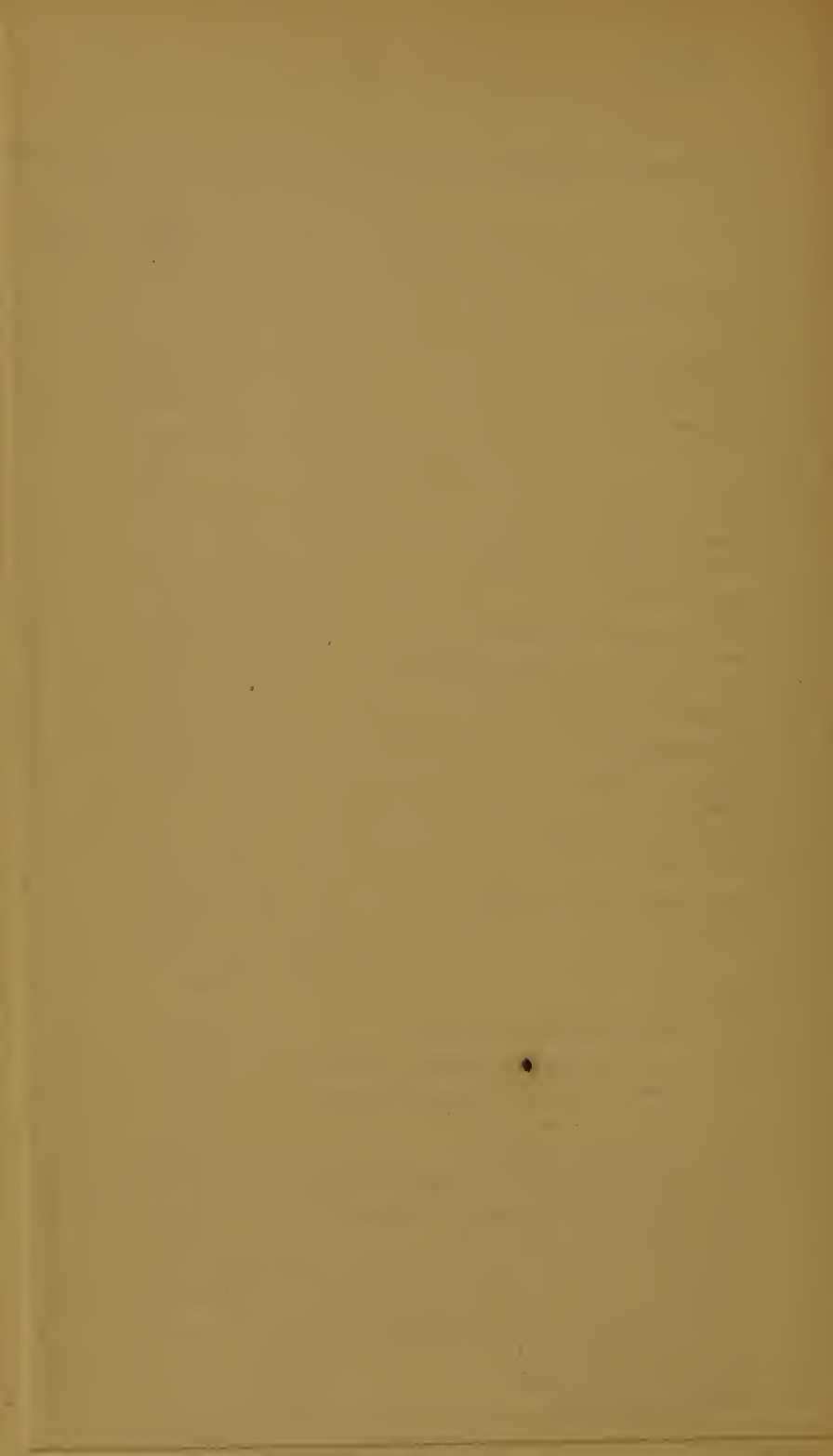


Table No. 2.
EXPENDITURES IN ACCORDANCE WITH THE UNIFORM

PARTICULARS.	MAIN HOSPITAL.		OUT-PATIENT DEPARTMENT.	
	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.
Administration:				
Salaries.....	\$55,983 78		\$9,062 96	
Expenses.....	12,880 88		1,638 39	
		\$68,864 66		\$10,701 35
PROFESSIONAL CARE OF PATIENTS.				
Physicians:				
Salaries.....		3,442 47		
Anæsthetist:				
Salaries.....		1,217 38		
Superintendent of Nurses and Assistants:				
Salaries.....		8,294 60		
Head nurses:				
Salaries.....		19,578 17		2,055 00
Undergraduate nurses:				
Salaries.....		22,163 37		900 00
Male nurses:				
Salaries.....		16,514 83		2,930 84
Ward employees:				
Salaries.....		36,843 23		
Apothecaries and assistants:				
Salaries.....		4,010 70		149 67
Medical and surgical supplies:				
Expenses.....		69,704 43		3,545 23
Pathological Laboratory:				
Salaries.....	\$17,970 06			
Expenses.....	8,965 86			
		26,935 92		274 86
X-Ray and Photographic Department:				
Salaries.....	\$5,909 36			
Expenses.....	9,510 79			
		15,420 15		10,280 10
Clinical laboratories and departments:				
Salaries.....	\$4,347 20			
Expenses.....	3,884 02			
		8,231 22		8,238 82
Social Service:				
Salaries.....	\$4,709 45			
Expenses.....	814 86			
		5,524 31		3,682 87
DEPARTMENT EXPENSES.				
Ambulance:				
Salaries.....	\$17,247 98			
Expenses.....	12,168 90			
		29,416 88		
Training School:				
Salaries.....	\$3,826 73			
Expenses.....	225 55			
		4,052 28		
Housekeeping:				
Salaries.....	\$49,920 40		\$6,288 50	
Expenses.....	11,708 49		143 71	
		61,628 89		6,432 21
Equipment:				
Expenses.....		41,030 65		629 60
Steward's Department:				
Salaries.....	\$4,728 11			
Expenses.....	258,426 69			15 60
		263,154 80		
Kitchen and dining room:				
Salaries.....		34,808 38		
Laundry:				
Salaries.....	\$42,268 94		\$1,367 64	
Expenses.....	19,472 40		452 20	
		61,741 34		1,819 84
Carried forward.....		\$802,578 66		\$51,655 99

Table No. 2.

SYSTEM OF HOSPITAL ACCOUNTING.

HAYMARKET SQUARE RELIEF STATION.		EAST BOSTON RELIEF STATION.		CONVALESCENT HOME.		Total Expenditures.	Total Expenditures.
Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.		
\$8,265 02		\$4,413 43		\$1,862 00		\$95,705 25	\$95,705 25
1,040 99		465 58		92 22			
	\$9,306 01		\$4,879 01		\$1,954 22		
						\$3,442 47	
						1,217 38	
	953 68		788 68			10,036 96	
	1,542 98				676 55	23,852 70	
	621 25		522 10			24,206 72	
	1,009 57		731 03			21,186 27	
	2,267 73		1,021 00			40,131 96	
	176 04		176 04		36 43	4,548 88	
	3,911 24		2,341 43		131 52	79,633 85	
	274 85					27,485 63	
						25,700 25	
						16,470 04	
						9,207 18	287,120 29
\$6,875 17		\$276 72		\$415 07			
3,145 75		3,484 89		74 48			
	10,020 92		3,761 61		489 55	\$43,688 96	
						4,052 28	
\$2,473 04		\$1,656 53		\$1,537 41			
535 39		113 54		261 65			
	3,008 43		1,770 07		1,799 06	74,638 66	
	1,377 63		164 89		357 27	43,560 04	
\$78 00		\$31 20		\$31 20			
10,658 58		3,473 61		4,406 31			
	10,736 58		3,504 81		4,437 51	281,849 30	
	1,470 41		1,114 95		616 33	38,010 07	
\$3,447 83		\$2,025 58		\$349 50			382,825 54
680 84		339 15		10 86			
	4,128 67		2,364 73		360 36	70,414 94	
	\$50,805 99		\$23,140 35		\$10,858 80	\$556,214 25	

Table No. 2.—Concluded.

PARTICULARS.	MAIN HOSPITAL.		OUT-PATIENT DEPARTMENT.	
	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.
<i>Brought forward.</i>		\$802,578 66		\$51,655 99
Heat, light and power:				
Salaries.....	\$43,795 87		\$3,411 15	
Expenses.....	116,985 07		10,994 00	
		160,780 94		14,405 15
BUILDINGS AND GROUNDS.				
Buildings:				
Salaries.....	\$28,163 63		\$784 32	
Expenses.....	51,206 31		510 67	
		79,369 94		1,294 99
Grounds:				
Salaries.....	\$4,382 95			
Expenses.....	1,865 37			
		6,248 32		
Miscellaneous expenses:				
Expenses.....		14,473 77		32 08
Totals.....		\$1,063,451 63		\$67,388 21
Deduct board of employees.....		17,680 00		
Add board of employees.....				16,640 00
Total operating expenses.....		\$1,045,771 63		\$84,028 21
Deduct for new construction at South Department,		17,921 61		
		\$1,027,850 02		
Deduct difference in stock on hand more than February 1, 1920.....		3,417 00		
Add difference in stock on hand less than February 1, 1920.....				
Amount properly chargeable to maintenance.....		\$1,024,433 02		\$84,028 21
Total patients' days' treatment.....	276,957		118,656	
Cost per day for ward patient.....		\$3 70		
Cost per visit per out-patient.....				\$0 71

Table No. 2.—Concluded.

HAYMARKET SQUARE RELIEF STATION.		EAST BOSTON RELIEF STATION.		CONVALESCENT HOME.		Total Expenditures.	Total Expenditures.
Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.		
	\$50,805 99		\$23,140 35		\$10,858 80	\$556,214 25	\$382,825 54
\$4,830 07 5,027 45	9,857 52	\$4,593 78 2,158 98	6,752 76	\$26 10 1,062 30	1,088 40	192,884 77	749,099 02
\$558 66 850 60	1,409 26	\$851 61 684 83	1,536 44	\$318 26 178 88	497 14	84,107 77	
\$3 28 99 43	102 71	\$1 64 18 00	19 64	\$169 12 76 46	245 58	6,616 25	90,724 02
	1,101 71		641 37		393 78	\$16,642 71	16,642 71
	\$63,277 19		\$32,090 56		\$13,083 70	\$1,239,291 29 17,680 00	\$1,239,291 29 17,680 00
	520 00		520 00			\$1,221,611 29 17,680 00	\$1,221,611 29 17,680 00
	\$63,797 19		\$32,610 56		\$13,083 70	\$1,239,291 29 17,921 61	\$1,239,291 29 17,921 61
	216 00				36 00	\$1,221,369 68	\$1,221,369 68
			74 00			\$1,217,700 68	\$1,217,700 68
						74 00	74 00
	\$63,581 19		\$32,684 56		\$13,047 70	\$1,217,774 68	\$1,217,774 68
23,869	\$3 66 2 57	28,976 00	\$3 66 1 00	5,406	\$2 41		

Table No. 3.

EXPENDITURES, CLASSIFIED, IN ACCORDANCE WITH SEGREGATED BUDGET FOR THE YEAR ENDING JANUARY 31, 1921.

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1920-1921.	
A. PERSONAL SERVICE.....		\$525,841 24
Permanent employees.....	\$513,641 59	
Temporary employees.....	8,489 62	
Unassigned.....	3,710 03	
B. SERVICE OTHER THAN PERSONAL.....		65,864 14
Printing and binding.....	\$467 45	
Postage.....	825 61	
Advertising and posting.....	43 60	
Transportation of persons.....	1,525 80	
Cartage and freight.....	448 50	
Light and power.....	5,276 81	
Premium on surety bond.....	184 25	
Communication.....	4,895 80	
Motor vehicle repairs.....	2,325 08	
Motorless vehicle repairs.....	566 65	
Cleaning.....	30 79	
Removal of snow.....	1,734 88	
Testing material and supplies.....	21 00	
Expert and architect.....	3,722 17	
Fees, service of venires, etc.....	12 00	
Boiler inspection.....	60 00	
General plant repairs.....	43,723 75	
C. EQUIPMENT.....		78,307 35
Machinery.....	\$3,435 00	
Electrical.....	138 21	
Motor vehicles.....	10,453 48	
Carried forward.....	\$14,026 69	\$670,012 73

EXPENDITURES, CLASSIFIED, IN ACCORDANCE WITH SEGREGATED BUDGET FOR THE YEAR ENDING JANUARY 31, 1921.—Cont.

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1920-1921.	
<i>Brought forward</i>	\$14,026 69	\$670,012 73
C. EQUIPMENT.— <i>Concluded</i> .		
Furniture and fittings.....	25,588 76	
Office.....	850 90	
Medical, surgical, laboratory.....	24,507 96	
Tools and instruments.....	3,884 60	
Live stock.....	50 50	
Wearing apparel.....	9,397 71	
General plant.....	23	
D. SUPPLIES.....		532,616 72
Office.....	\$14,022 68	
Food and ice.....	281,493 28	
Fuel.....	142,497 84	
Forage and animal.....	484 72	
Medical, surgical, laboratory.....	75,010 30	
Laundry, cleaning and toilet.....	11,694 84	
Educational and recreational.....	314 60	
Agricultural.....	145 15	
Motor vehicle.....	3,763 30	
Chemicals and disinfectants.....	671 95	
General plant.....	2,518 06	
E. MATERIALS.....		34,197 65
Building.....	\$14,195 12	
Machinery.....	2,563 16	
Electrical.....	4,596 24	
General plant.....	12,843 13	
F. SPECIAL ITEMS.....		1,340 86
Pensions and annuities.....	\$423 00	
Workingmen's compensation *.....	917 86	
G. INCIDENTAL EXPENDITURES TO COVER CONTINGENCIES OTHER THAN PERSONAL.....		1,123 33
Special investigation (influenza).....	\$1,123 33	
Total expenditures.....		\$1,239,291 29

* Fifty-six dollars more was paid, but charged to Personal Service, Unassigned.

Table No. 4.

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31,
1921, INCLUSIVE.

ARTICLES.	Quantity.	Average Price.	Cost.
THE MAIN HOSPITAL, SOUTH DEPARTMENT, HAYMARKET SQUARE RELIEF STATION, EAST BOSTON RELIEF STATION AND CONVALESCENT HOME.			
<i>Subsistence Supplies.</i>			
Beef and veal.....	125,154 lbs.	\$0.245 per lb.	\$30,688 51
Mutton and lamb.....	61,836 "	.252 "	15,557 92
Poultry.....	24,430 "	.361 "	8,830 37
Pork and ham.....	67,154 "	.279 "	18,757 13
Fish.....			7,863 78
Lard.....	4,424 "	.232 "	1,024 66
Milk.....	430,945 qts.	.129 per qt.	55,546 06
Butter.....	50,471 lbs.	.599 per lb.	30,247 04
Cheese.....	1,793 "	.305 "	543 40
Eggs.....	43,610 doz.	.589 per doz.	25,682 85
Vegetables, fresh.....			19,361 82
Vegetables, canned.....			4,037 58
Fruit, fresh.....			6,125 38
Fruit, canned.....			10,220 44
Flour.....	933½ bbls.	12.933 per bbl.	12,073 36
Oatmeal.....	47 "	10.68 "	502 00
Cornstarch and farina.....	1,463 lbs.	.094 per lb.	137 49
Rice.....	5,210 "	.12 "	623 60
Other cereals.....			2,162 31
Groceries.....			3,661 50
Coffee.....	14,810 lbs.	.347 per lb.	5,132 40
Tea.....	6,109 "	.266 "	1,623 32
Chocolate and cocoa.....	1,735 "	.221 "	383 38
Sugar.....	90,227 "	.177 "	15,953 07
Molasses and syrup.....	213 gal.	1.06 per gal.	225 82
<i>Carried forward</i>			\$276,965 19

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Totals.
<i>Brought forward</i>		\$276,965 19
<i>General Supplies.</i>		
Printing.....	\$6,085 63	
Stationery.....	3,036 86	
Postage.....	629 72	
Advertising proposals, etc.....	43 60	
Telephone rentals.....	3,479 78	
Telephone, telegraph and messenger service.....	515 95	
Nurses' home.....	1 40	
Vose House.....	82 70	
Lucy L. Drown House.....	161 45	
Training school for nurses.....	225 55	
Garage and ambulance:		
Expenses.....	\$12,979 69	
Coal, 175 tons.....	2,187 50	
	15,167 19	
Barn and live stock.....	1 40	
Garage supplies.....	4 90	
Gasolene.....	3,700 53	
Soap and cleansing stuffs.....	5,442 33	
Dry goods.....	6,762 12	
Furniture.....	2,382 15	
Furnishings.....	18,661 36	
Fixtures.....	1,510 49	
Bedsteads.....	125 13	
Mattresses.....	830 55	
Bedding.....	19,312 78	
Laundry supplies:		
Expenses.....	\$12,065 75	
Coal, 675 tons.....	8,437 50	
	20,503 25	
Gas, 3,055,200 cubic feet at \$1.112 per 1,000 cubic feet. . .	3,395 96	
Electric light purchased.....	1,660 85	
Electric light system.....	5,219 15	
Electrical appliances.....	364 99	
<i>Carried forward</i>	\$119,307 77	\$276,965 19

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Totals.
<i>Brought forward</i>	\$119,307 77	\$276,965 19
<i>General Supplies.—Concluded.</i>		
Kerosene, matches and candles.....	166 69	
Ice, 878 $\frac{1133}{1000}$ tons at \$6.321 per ton.....	5,553 29	
Transportation and express.....	912 30	
Cartage and freight.....	372 25	
Insurance.....	184 25	
Clothing for patients.....	6,314 05	
Uniforms, caps, etc.....	1,015 96	
Annual reports.....	467 45	
Clinical records:		
Expenses.....	\$1,713 40	
Salaries.....	3,785 77	
	5,499 17	
Housecleaning:		
Soap.....	\$253 21	
Brushes, etc.....	161 41	
	414 62	
Incidentals not otherwise classified.....	126 00	
		140,333 80
<i>Medical Supplies.</i>		
Surgical appliances.....	\$6,340 28	
Apparatus.....	2,389 85	
Splints and crutches.....	150 77	
Surgical instruments.....	6,492 35	
X-ray apparatus.....	100 60	
X-ray supplies.....	624 74	
Surgical dressings.....	2,538 85	
Bandage and compress materials.....	5,987 70	
Gauze.....	22,427 14	
Absorbent cotton.....	2,456 14	
Oxygen gas.....	777 16	
Sulphuric ether.....	1,328 93	
Medicine and drugs.....	14,473 23	
Druggists' sundries.....	2,711 65	
Flaxseed meal.....	1,028 53	
Alcohol.....	5,312 64	
Liquors.....	864 75	
Malt liquors and mineral waters.....	83 31	
		76,088 62
<i>Carried forward</i>		\$493,387 61

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Totals.
<i>Brought forward</i>		\$493,387 61
<i>Fuel.</i>		
Coal, 9,714 1118 tons at \$11.751 per ton.....	\$114,168 41	
Charcoal.....	242 75	
Coke.....	15 00	114,426 16
<i>Salaries and Labor.</i>		
Salaries and wages.....	\$5,865 00	
Pay rolls.....	433,490 26	
Wages, housecleaners.....	11,066 79	
Pensions.....	423 00	
Injured employees.....	973 86	451,818 91
<i>Buildings.</i>		
General repairs.....	\$37,421 80	
Boilers and heating apparatus.....	9,225 81	
Painting.....	3,535 14	
Plumbing.....	1,980 01	
Drains and sewers.....	19 25	
Refrigerating plant.....	343 91	
Walls and fences.....	149 15	52,675 07
<i>Grounds.</i>		
Care of grounds.....		2,059 26
Deduct for board of employees:		\$1,114,367 01
Out-Patient Department.....		16,640 00
Total expenditures for maintaining main departments for year ending January 31, 1921.....		\$1,097,727 01
OUT-PATIENT DEPARTMENT.		
<i>General Supplies.</i>		
Printing, stationery and postage.....	\$1,514 77	
Telephone rentals.....	123 62	
Soap and cleansing stuffs.....	78 88	
Dry goods, uniforms, caps, etc.....	62 97	
Bedding.....	211 46	
Furniture, furnishings and fixtures.....	418 14	
Laundry supplies.....	452 20	
<i>Carried forward</i>	\$2,862 04	\$1,097,727 01

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>	\$2,862 04		\$1,097,727 01
OUT-PATIENT DEPARTMENT—Concluded.			
<i>General Supplies.—Concluded.</i>			
Gas, 44,000 cubic feet at \$1.108 per 1,000 cubic feet.....	48 76		
Electric light system.....	115 09		
Electrical appliances.....	91 65		
Kerosene, matches and candles.....	2 08		
Cartage and freight.....	23 33		
Housecleaning:			
Soap.....	\$7 30		
Brushes, etc.....	3 31		
	10 61		
		\$3,153 56	
<i>Medical Supplies.</i>			
Surgical instruments, appliances and apparatus.....	\$489 75		
Laboratory ware.....	18 53		
Dressings, gauze, bandage and absorbent cotton.....	1,692 01		
Chemicals.....	1,344 94		
		3,545 23	
<i>Fuel.</i>			
Coal, 908 $\frac{7}{10}$ tons at \$11.82 per ton.....		10,736 42	
<i>Salaries and Labor.</i>			
Salaries and wages.....	\$26,683 18		
Wages, housecleaning.....	282 50		
		26,965 68	
<i>Buildings.</i>			
Building repairs, heating apparatus and plumbing.....		510 67	
		\$44,911 56	
Add for board of Out-Patient Department employees.....		16,640 00	
			61,551 56
PATHOLOGICAL DEPARTMENT.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$183 68		
Telephone rentals.....	24 72		
Soap and cleansing stuffs.....	54 67		
Dry goods, uniforms, caps, etc.....	131 29		
<i>Carried forward</i>	\$394 36		\$1,159,278 57

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>	\$394 36	.....	\$1,159,278 57
PATHOLOGICAL DEPARTMENT.—Concluded.			
<i>General Supplies.—Concluded.</i>			
Bedding.....	23 93		
Furniture, furnishings and fixtures.....	379 32		
Gas, 155,700 cubic feet at \$1.10 per 1,000 cubic feet.....	171 24		
Electric light system.....	52 16		
Electrical appliances.....	27 72		
Kerosene, matches and candles.....	7 35		
Transportation, cartage and freight.....	25 91		
Animals and their maintenance.....	506 02		
Housecleaning:			
Soap.....	\$0 25		
Brushes, etc.....	1 66		
	1 91		
Incidentals.....	1 66		
		\$1,591 58	
<i>Medical Supplies.</i>			
Surgical instruments and appliances.....	\$64 72		
Micro-photographic supplies.....	717 32		
Laboratory ware.....	681 49		
Absorbent cotton.....	53 47		
Chemicals.....	343 19		
Blood serum.....	65 56		
		1,925 75	
<i>Fuel.</i>			
Coal, 454 $\frac{222}{10}$ tons at \$11.82 per ton.....		5,368 23	
<i>Salaries and Labor.</i>			
Salaries and wages.....	\$18,014 77		
Wages, housecleaning.....	322 03		
		18,336 80	
<i>Buildings.</i>			
Building repairs, heating apparatus and plumbing.....		263 27	
			27,485 63
X-RAY AND PHOTOGRAPHIC DEPARTMENT.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$795 95		
Soap and cleansing stuffs.....	5 86		
<i>Carried forward</i>	\$801 81	.....	\$1,186,764 20

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921.
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>	\$801 81	.....	\$1,186,764 20
X-RAY AND PHOTOGRAPHIC DEPARTMENT.— <i>Concluded.</i>			
<i>General Supplies.—Concluded.</i>			
Dry goods, uniforms, caps, etc.....	10 35		
Bedding.....	5 97		
Furniture, furnishings and fixtures.....	167 09		
Electric light system.....	48 32		
Electrical appliances.....	28 79		
Cartage and freight.....	28 68		
Incidentals.....	21 00		
		\$1,112 01	
<i>Medical Supplies.</i>			
X-Ray and photographic apparatus.....	\$812 11		
X-Ray and photographic supplies.....	11,748 45		
Chemicals.....	765 52		
		13,326 08	
<i>Fuel.</i>			
Coal 113 $\frac{111}{10}$ tons at \$11.82 per ton.....			1,342 03
<i>Salaries and Labor.</i>			
Salaries and wages.....	\$9,772 29		
Wages, house cleaning.....	76 64		
		9,848 93	
<i>Buildings.</i>			
Building repairs and heating apparatus.....		71 20	
			25,700 25
DEPARTMENT OF PHYSICAL THERAPEUTICS.			
<i>General Supplies.</i>			
Furniture.....	\$104 50		
Cartage and freight.....	23 33		
		\$127 83	
<i>Medical Supplies.</i>			
Apparatus.....	\$3,705 80		
Absorbent cotton.....	106 08		
Chemicals.....	11 39		
		3,823 27	
<i>Salaries and Labor.</i>			
Pay rolls.....		878 04	
<i>Buildings.</i>			
Painting.....		17 75	
			4,846 89
<i>Carried forward</i>			\$1,217,311 34

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Cost.	Total.
<i>Brought forward</i>			\$1,217,311 34
CLINICAL LABORATORIES.			
<i>General Supplies.</i>			
Furnishings.....		\$0 58	
<i>Medical Supplies.</i>			
Apparatus.....	\$300 00		
Laboratory ware.....	200 00		
Chemicals.....	400 00		
		900 00	
<i>Salaries and Labor.</i>			
Pay rolls.....		3,759 33	4,659 91
BLOOD LABORATORY.			
<i>General Supplies.</i>			
Printing and stationery.....	\$5 61		
Dry goods.....	30 42		
Furniture and furnishings.....	47 60		
Electric light system.....	43 16		
Electrical appliances.....	17 23		
Kerosene, matches and candles.....	44		
		\$144 46	
<i>Medical Supplies.</i>			
Surgical instruments, appliances and apparatus.....	\$828 44		
Laboratory ware.....	307 29		
Bandage, compress, gauze and absorbent cotton.....	18 67		
Chemicals.....	112 42		
		1,266 82	
<i>Salaries and Labor.</i>			
Pay rolls.....		2,632 86	4,044 14
VACCINE AND SERUM THERAPY DEPARTMENT.			
<i>General Supplies.</i>			
Printing and stationery.....	\$2 75		
Furniture.....	250 04		
Electric light system.....	56 96		
		\$309 75	
<i>Medical Supplies.</i>			
Surgical instruments and apparatus.....	\$801 35		
Laboratory ware.....	40 77		
<i>Carried forward</i>	\$842 12	\$309 75	\$1,226,015 39

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.—Cont.

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>	\$842 12	\$309 75	\$1,226,015 39
VACCINE AND SERUM THERAPY DEPARTMENT.— <i>Concluded.</i>			
<i>Medical Supplies.—Concluded</i>			
Absorbent cotton.....	13 35		
Chemicals.....	25 53		
		\$81 00	
<i>Salaries and Labor.</i>			
Pay rolls.....		1,428 19	
<i>Buildings.</i>			
Heating apparatus and plumbing.....		300 16	
			2,919 10
DEPARTMENT OF MEDICAL SOCIAL WORK.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$225 73		
Telephone rentals.....	618 11		
Transportation.....	513 50		
		\$1,357 34	
<i>Salaries and Labor.</i>			
Pay rolls.....		7,849 09	
<i>Buildings.</i>			
Painting.....		75	
			9,207 18
SETTLEMENT ACCOUNT.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$516 19		
Telephone rentals.....	123 62		
Furniture and furnishings.....	107 98		
		\$747 79	
<i>Salaries and Labor.</i>			
Pay rolls.....		401 83	
			1,149 62
Total disbursements.....			\$1,239,291 29
STOCK ON HAND FEBRUARY 1, 1920.			
<i>All Departments.</i>			
General supplies.....		\$47,603 45	
Coal.....		780 27	
<i>Carried forward</i>		\$48,383 72	\$1,239,291 29

DISBURSEMENTS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,
INCLUSIVE.— *Concl.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>		\$48,383 72	\$1,239,291 29
STOCK ON HAND.— <i>Concluded</i>			
Medical supplies.....		10,013 78	
Liquors.....		52 50	58,450 00
Total expenditures for all purposes.....			\$1,297,741 29
DEDUCT.			
STOCK ON HAND FEBRUARY 1, 1921.			
<i>All Departments.</i>			
General supplies.....		\$51,330 81	
Coal.....		594 08	
Medical supplies.....		9,789 61	
Liquors.....		330 50	62,045 00
Total maintenance expenses.....			\$1,235,696 29
DEDUCT REVENUE			
Income from paying patients:			
Collected by hospital.....	\$151,917 86		
Collected by City Collector for contagious cases.....	15,091 07	\$167,008 93	
Revenue on account of maintenance:			
Interest on trust funds.....		2,515 67	
Sundry revenue:			
Sale of bones and trimmings and old material.....		1,669 68	
Commission on automatic telephones.....		205 79	
Birth fees.....		122 50	
Interest on bank deposit.....		102 36	
Rent of land.....		100 00	
Damage to ambulance.....		35 00	171,759 93
Net cost to the city for maintaining all departments from February 1, 1920, to January 31, 1921, inclusive.....			\$1,063,936 36

Table No. 5.

COMPARISON OF THE CENSUS AND EXPENDITURES AT THE
BOSTON CITY HOSPITAL FOR THE FISCAL YEARS ENDING
JANUARY 31, 1918, 1919, 1920, 1921.

POPULATION.	1917-18.	1918-19.	1919-20.	1920-21.
Number of patients at beginning of year.....	892	971	893	945
Number admitted during year.....	22,226	21,890	19,475	19,383
Number discharged during year, including deaths.....	22,147	21,968	19,423	19,333
Number remaining at end of year....	971	893	945	995
DAYS' BOARD GIVEN.				
Daily average of patients.....	881.2	815.8	763.3	780.6
Daily average, officers and employees,	701.1	671.8	690.1	681.9
Total average days' board given..	1,582.3	1,487.6	1,453.4	1,462.5
EXPENDITURES.				
Ordinary expenditures:				
Personal service.....	\$361,239 18	\$381,412 00	\$446,346 63	\$525,841 24
Service other than personal.....	27,317 22	37,798 29	32,190 19	36,158 17
Equipment.....	43,132 25	71,770 00	51,078 39	60,420 88
Supplies.....	411,173 83	459,014 07	431,824 67	532,616 72
Materials.....	19,955 56	22,660 07	24,703 84	33,865 34
Special items.....	553 10	357 26	2,478 73	1,340 86
Incidental expenditures.....			3,095 34	523 33
Extraordinary expenditures (permanent improvements):				
Service other than personal.....	2,134 05	413 00	8,976 05	29,705 97
Equipment.....		950 00	2,851 50	17,886 47
Materials.....	110 36			332 31
Incidental expenditures.....			674 50	600 00
Totals.....	\$865,615 55	\$974,374 69	\$1,004,219 84	\$1,239,291 29

REVENUE FROM ALL SOURCES FOR THE YEAR FEBRUARY 1, 1920, TO JANUARY 31, 1921, INCLUSIVE.

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	West Department.	All Departments.	Totals.	Grand Totals.
Revenue, Account of Maintenance:	\$2,515 67							\$2,515 67
Interest on Trust Funds.....								
Sundry Revenue:								
Income from paying patients collected by hospital:								
For ward patients.....	132,078 70	\$9,212 70	\$2,151 44	\$931 81		\$2,211 00	\$146,585 65	
For out-patients.....	3,002 21		1,502 00	828 00			5,332 21	
Received by City Collector for contagious cases.....		15,091 07					15,091 07	
Sale of bones and trimmings.....	1,099 04	258 49	23 08					167,008 93
Sale of old material:								1,380 61
Barrels and bags.....	289 07							289 07
Commission on automatic telephones.....	113 44	67 96	24 39					205 79
Birth fees.....	122 50							122 50
Interest on bank deposit.....	102 36							102 36
Rent of land for store.....					\$100 00			109 00
Damage to ambulance.....	35 00							35 00
Totals.....	\$139,357 99	\$24,630 22	\$3,700 91	\$1,759 81	\$100 00	\$2,211 00		\$171,759 93

The tables of disbursements in this report show the expenditures of the Hospital Department during the fiscal year February 1, 1920, to January 31, 1921, inclusive. Tables No. 1 and No. 2 show the disbursements in various subdivisions with per capita costs, Table No. 2 showing the main hospital combined with South Department. Table No. 3 shows the expenditures according to the budget classification. Table No. 4 shows the detailed disbursements in various subdivisions. Table No. 5 is a comparison of the census and expenditures for the past four years. Table No. 6 is a statement of the revenue received from all sources during the year.

The total expenditures for the fiscal year for Hospital Department, in the various branches, have been \$1,239,291.29, and the disbursements have been made as follows:

For personal service	\$525,841 24
Service other than personal	65,864 14
Equipment	78,307 35
Supplies	532,616 72
Materials	34,197 65
Special Items	1,340 86
Incidental expenditures to cover contin- gencies other than personal service	1,123 33
Total	<u>\$1,239,291 29</u>

The hospital proper has nine subdivisions, the hospital (wards) proper, Out-Patient Department, Pathological Department, X-Ray and Photographic Department, Department of Physical Therapeutics, Vaccine and Serum Therapy Department, Clinical Laboratories, Blood Laboratory, Department of Medical-Social Work. The expenditures for the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home are kept in separate tables.

In Table No. 2 the expenditures of the hospital proper are combined with those of the South Department to form the main hospital.

The average weekly expenditure per ward patient in the hospital proper was \$25.75; at the South Department, \$26.34; at the main hospital (hospital proper and the South Department combined), \$25.89. At the Convalescent Home the average weekly expenditure per patient was \$16.90.

The expenditure per visit per out-patient at the hospital proper was 71 cents; at the Haymarket Square Relief Station, \$2.57; at the East Boston Relief Station, \$1.

The expenditure per person for uncooked food supplies in all the hospital departments was \$3.62 per week or 52 cents per day.

The total expenditures of the Hospital Department have been \$1,239,291.29, but the net cost to the city for maintaining it was only \$1,063,936.36.

The maximum number of patients in the hospital proper on any one day was 728, as against 667 in the previous year. The minimum number was 453 in comparison with 413 for the previous year. The daily average during the year was 575.7, and the average length of stay was 13.9 days.

There have been treated in the various out-patient departments at the hospital proper 28,896 patients. Other statistics may be found elsewhere, including the number of out-patients, number of their visits, rate of mortality, work of ambulances, census of days' board for all persons, the nativity of patients admitted and physical condition of patients when discharged.

The total number of deaths from February 1, 1920, to January 31, 1921, was 1,211. This does not include the statistics of the South Department, but only the main hospital.

Of the deaths, there occurred within

48 hours of admission	463 or 3 per cent.
Other deaths	748 or 5 per cent.
Total	1,211 or 8 per cent.

the rate of mortality for the year ending January 31, 1921.

This percentage of deaths is for the total number of patients treated in the hospital. The deaths occurring within forty-eight hours of admission (463) were 38 per cent of the whole number of deaths (1,211).

During the year 15,131 patients were treated in the wards of the main hospital, 28,896 as out-patients, 261 at the Convalescent Home, 2,177 at the South Department; at the Haymarket Square Relief Station 2,074 were treated in the wards and 21,897 as out-patients, and at the East Boston Relief Station 685 were treated in the wards and 9,709 as out-patients, a total of 80,830 who have received the benefits of the hospital in all departments.

During the year 14,732 persons applied for admission at the main hospital. Of this number 14,489 were admitted and 243 rejected. This number rejected was $1\frac{7}{10}$ per cent of all persons applying, and the causes of rejection appear in the table of applicants not admitted on page 62.

There were 457 self-rejected or deferred. Of these, 205 were admitted within three days and 115 admitted later. There were 137 denied admission because they had a state settlement, but of these 55 were admitted within three days and 16 later. Eighty-two were rejected for lack of accommodation, but of these 31 were admitted within three days and 29 still later. Twenty-four were refused admission because they did not reside within the city limits, but 10 of these were admitted within three days and 3 later. Four were denied admission on account of lack of information that they were suitable applicants. Five were referred to other public institutions on account of the nature of their diseases but of these, 2 were admitted later.

HAYMARKET SQUARE RELIEF STATION.

The following are the principal statistics of the Haymarket Square Relief Station for the year:

Number of patients remaining in Haymarket Square Relief Station, January 31, 1920	6
Admitted from February 1, 1920, to January 31, 1921, inclusive	2,068
	<hr/>
Treated during the year	2,074
Discharged during the year	1,984
Died during the year	86
	<hr/>
	2,070
	<hr/>
Number of patients remaining in Haymarket Square Relief Station January 31, 1921	4
Number of out-patients treated during the year	21,897
Largest number of out-patients treated on any one day	104
Number of major surgical operations	61
Number of deaths following surgical operations	8
Number of deaths within twenty-four hours of admission	63
Number of days' treatment given patients in wards	1,972
Largest number of ward patients on any one day	13
Smallest number of ward patients on any one day	0
Average stay of ward patients in days	0.9
Daily average in wards	5.4
Number of Relief Station ambulance calls	1,208
Number of ambulance trips for transfer of admitted patients to hospital proper	472
Miscellaneous ambulance trips	4
	<hr/>
	1,684
Number of ward patients transferred to hospital proper	324
Number of out-patients transferred to hospital proper	219
Number of patients brought in Relief Station ambulances	1,073
	<hr/>
	1,616
Total number of miles run by Relief Station ambulances	4,738
Number of cases brought in by police ambulances and patrol wagons	1,920
Number of cases brought in by carriages and automobiles	682

EAST BOSTON RELIEF STATION.

The following are the principal statistics for the year:

Number of patients remaining at the East Boston Relief Station, January 31, 1920	8
Admitted from February 1, 1920, to January 31, 1921, inclusive	677
	<hr/>
Treated during the year	685
Discharged during the year	639
Died during the year	44
	<hr/>
	683
	<hr/>
Number of patients remaining in East Boston Relief Station January 31, 1921	2
Number of out-patients treated	9,709
Number of visits of out-patients	27,598
Largest number of out-patients treated on any one day	127
Number of major surgical operations	57
Number of deaths	44
Number of deaths within twenty-four hours of admission	34
Number of days' treatment given patients in wards	1,378
Largest number of ward patients on any one day	12
Smallest number of ward patients on any one day	0
Average stay of ward patients in days	4
Daily average in wards	3.7
Number of ambulance trips for transfer of patients to hospital proper also to patients' homes	487
Number of ambulance trips for bringing patients to East Boston Relief Station	207
	<hr/>
	694
Number of patients transferred to hospital proper	157
Number of patients carried to East Boston Relief Station	207
	<hr/>
	364
Number of miles run by East Boston Relief Station ambulances	5,463

EAST BOSTON RELIEF STATION.—*Concluded.*

Number of patients accidentally injured admitted to wards	142
Number of patients brought in by police ambulances, patrol wagons, carriages, automobiles, etc.	174

CONVALESCENT HOME.

The statistics of the Convalescent Home, which has just completed its thirtieth year, are as follows:

Number of patients in Home January 31, 1920	29
Admitted during the year	232
<hr/>	
Total treated during the year	261
Discharged during the year	251
<hr/>	
Number remaining in Home January 31, 1920	10
Number of days' board given patients	5,404
Largest number of patients on any one day	29
Smallest number of patients on any one day	5
Daily average number of patients	14.8
Average stay of patients in days	20.7

MEDICAL LIBRARY.

Number of books in library February 1, 1920	3,502
Number of books added to library from February 1, 1920, to January 31, 1921:	
By purchase	71
By donation	19
	90
<hr/>	
Number of books in library January 31, 1921	<u>3,592</u>

There have been received during the year 88 medical monographs and reprints and 121 hospital and health reports and 455 periodicals.

Seventeen thousand three hundred and sixty-five index cards of clinical records have been written and filed during the year.

TRAINING SCHOOL FOR NURSES.

The Training School for Nurses has now completed its forty-third year. The changes in the nursing staff during the year have been as follows:

SUMMARY FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921.

February 1, 1920, the number of nurses was 269

During the year nurses left as follows:

Instructor of probationers resigned	1
Supervisor of nurses resigned	1
Head nurses resigned	33
Pupils graduated	44
Pupils resigned	3
Pupils dropped from roll	14
Probationers dropped from roll	11
Male pupils left	15
Male graduates resigned	2
Male pupils graduated	5
Pupils from affiliated schools have completed courses as follows:	
Boston State Hospital	13
Taunton State Hospital	11
New England Hospital	12
Leonard Morse Hospital	5
Cambridge City Hospital	4
Long Island Hospital	6
Grafton State Hospital	4
Cushing Hospital	5
Worcester State Hospital	9
Worcester Memorial Hospital	22
Affiliated pupils who withdraw	11
	—
Total left	<u>231</u>
Number of nurses remaining	38
Graduates retained	14
Graduates employed	14
Pupils readmitted	4
Probationers admitted	35
	—
Carried forward	105

<i>Brought forward</i>	105	
Probationers readmitted	1	
Male pupils admitted	21	
Male graduates readmitted	1	
Pupils from affiliated schools admitted as follows:		
Boston State Hospital	16	
New England Hospital	12	
Taunton State Hospital	21	
Leonard Morse Hospital	5	
Worcester Memorial Hospital	23	
Cambridge City Hospital	5	
Grafton State Hospital	7	
Worcester State Hospital	24	
Frost Hospital	2	
Graduate special nurses	3	
Total number remaining January 31, 1921		<u>246</u>

NURSES CONNECTED WITH THE SCHOOL JANUARY
31, 1921.

Main Hospital:

Superintendent of nurses and assistant superintendents of nurses	5	
Instructors	3	
Graduates	26	
Special nurses	24	
Pupil nurses, female	64	
Pupil nurses, male	14	
Probationers	15	
Affiliated pupils:		
Boston State Hospital	13	
Taunton State Hospital	16	
New England Hospital	2	
Grafton State Hospital	7	
Worcester State Hospital	13	
	—	202

South Department:

Assistant superintendent and supervisors of nurses,	3	
Head nurses	3	
Special nurses	3	
<i>Carried forward</i>	9	<u>202</u>

<i>Brought forward</i>	9	202
Pupil nurses	6	
Affiliated pupils:		
Boston State Hospital	2	
Taunton State Hospital	5	
Leonard Morse Hospital	2	
Worcester Memorial Hospital	4	
Cambridge City Hospital	1	
Frost Hospital	2	
	—	31
<i>Haymarket Square Relief Station:</i>		
Matron	1	
Head nurse	1	
Pupils	5	
	—	7
<i>East Boston Relief Station:</i>		
Head nurse	1	
Pupils	3	
	—	4
<i>Convalescent Home:</i>		
Matron	1	
Head nurse	1	
	—	2
Total		<u>246</u>

Thirty-six probationers have been admitted. Forty-four pupils have graduated. One pupil is sent to the Social Service at intervals of two months. One hundred and eighteen pupils from schools affiliated with the Training School have been admitted and ninety-one have completed their course.

Miss Frances E. Morley, instructor of theory, Miss Clara F. Managhan, instructor of probationers, Miss Mary Currier, instructor of obstetrics, Miss Lydia C. Lee, dietitian, and Miss Etta M. Dwyer, chief operating room nurse, have conducted the usual number of classes in their respective departments.

Professor Nissen has held thirty-six classes in massage. The senior pupils have attended eighteen medical clinics

given by Dr. John A. Foley of the Visiting Staff and eighteen surgical clinics by Dr. Joseph H. Shortell, also of the Visiting Staff, and six lectures on obstetrics by other members of the staff.

The regular graduating exercises were held Friday, May 25, at 4 p. m. Dr. Henry S. Rowen, a trustee, and Dr. William H. Robey, Jr., of the Visiting Staff, addressed the class. The diplomas were presented by Mr. Joseph P. Manning, President of the Board of Trustees.

CHANGES IN THE EXECUTIVE STAFF.

In May John A. Foley, M. D., Second Executive Assistant, and Harold Q. Gallupe, M. D., Resident Surgeon, resigned their positions to enter upon private practice. Francis S. Brodrick, M. D., then became Second Executive Assistant and Edward B. Ormsby, M. D., was appointed Third Executive Assistant.

Joseph P. Mulhern, M. D., Resident Anæsthetist, became Acting Resident Surgeon in July, and Dr. Ormsby was then made Resident Anæsthetist. Chester R. Mills M. D., was appointed Third Executive Assistant and Carl A. Peterson, M. D., was appointed temporary Executive Assistant for the vacation period.

In September Dr. Mulhern resigned and Dr. Ormsby was made Resident Surgeon. William R. Supple, M. D., graduating Interne, was then appointed Resident Anæsthetist.

In January Dr. Mills resigned to take the Interneship of the Ophthalmic and Aural Service, and Onis H. Horrall, M. D., graduating House Officer, was appointed Third Executive Assistant.

In the Pathological Department there were the following resignations during June: Frank B. Berry, M. D., First Assistant in Pathology and Rustin McIntosh, M. D., Second Assistant in Pathology. In September Frederick Parker, Jr., M. D., Assistant Pathologist and Research Assistant in Pathology, resigned. These vacancies were filled by the appointment of Bartlett C.

Shackford, M. D., First Assistant in Pathology, beginning in July; William H. McKnight, M. D., Second Assistant in Pathology for the month of June; Merrill J. King, M. D., Second Assistant in Pathology beginning early in July; Robert N. Nye, M. D., Research Assistant in Pathology, beginning in October.

In August Henry M. Thomas, Jr., M. D., Resident Physician for Special Service, resigned and F. Dennette Adams, M. D., was appointed to fill the vacancy. From April until July, Dwight O'Hara, M. D., served as temporary Assistant Resident Physician for Special Service. In January 1921, Arthur B. Lyon, M. D., was appointed Assistant Physician for Special Service, for the care of children.

At the South Department, there have been the following changes in the positions of Assistant Physicians: Jesse M. David, M. D., resigned in April, Paul C. Carson, M. D., in June, and Lee F. Hill, M. D., in November. The vacancies thus caused were filled by the appointment of Stuart W. Adler, M. D., in June and Augustine W. McGarry, M. D., in November.

At the East Boston Relief Station, G. Lynde Gately, M. D., Assistant Resident Surgeon, resigned in September and William L. MacKedon, M. D., was appointed to the position.

CHIEF ACCOMPLISHMENTS OF THE HOSPITAL DURING THE PAST YEAR.

The chief accomplishments for the past year are summed up as follows:

The establishment of a pneumonia laboratory.

Installation of a new special diet kitchen for the preparation of weighed and measured diets.

Establishment of a complete electrohydrotherapeutic department.

Installation of a cardiograph, and organization of a heart clinic.

Organization of a nutrition clinic.

Segregation of diabetic and nephritic cases, to which Wards Q and R have been assigned, and a room for metabolic work.

Segregation of eye, ear, nose and throat cases in Ward O.

A new laboratory, fully equipped as a department for immunization, and remodeling of the third pavilion at the South Department into cubicles and small rooms for the proper isolation of communicable diseases.

Besides the above, it is absolutely necessary that large sums of money be appropriated to carry on the work of the hospital. At least \$150,000 should be appropriated to add to the \$220,000 available from the George L. Thorndike bequest, to construct the Thorndike Memorial Building for X-ray work and for the intensive study of medicine.

A large sum of money is needed to remodel and enlarge the present Out-Patient Building, so that the hospital may properly and adequately care for its dispensary cases.

The following increased accommodations are urgently needed at the present time:

One hundred beds for male and female surgical cases,

Fifty beds for medical cases,

Fifty beds for obstetrical cases,

Fifty gynæcological beds and a nursery accommodating fifty infants.

One hundred beds for communicable diseases at the South Department.

Besides the above, it is absolutely essential that a building be constructed, or an addition made to the present building, to house 100 more nurses, and a building with at least seventy-five beds to decently house the present group of house officers.

If a private pavilion containing 150 beds were constructed, the same would be self-supporting, and no doubt a source of income.

To carry on the work of the Pathological Department, the space now used for the autopsy room should be remodeled, and a new, detached autopsy room constructed.

For the generous support given to me during the past year by the trustees and executive officers of the hospital, I am sincerely grateful.

JOHN J. DOWLING, M. D.,
Superintendent and Medical Director.

BEQUESTS.

FUNDS WITH INTEREST ONLY AVAILABLE.

<i>Goodnow Fund.</i> —For the support of free beds	\$26,000 00
<i>Nichols Fund.</i> —For the establishment and endowment of a City Hospital	2,000 00
<i>Norcross Fund.</i> —For the benefit of patients leaving the hospital poor and destitute of proper clothing	2,000 00
<i>Ball Fund.</i> —For the same purpose and under the same restrictions as the Norcross Fund	1,000 00
<i>Goodnow Library Fund.</i> —For replenishing the library of the hospital with books and pamphlets suitable for the reading of the patients during convalescence	1,000 00
<i>Shaw Fund.</i> —For the purchase of flowers and fruit for the use and comfort of the patients in the hospital	2,000 00
<i>Perkins Fund.</i> —For books for the Medical Library, and for the purchase of artificial limbs and surgical appliances for the use and relief of patients leaving the hospital	7,500 00
<i>Cheever Fund.</i> —To purchase and present to each house surgeon when his service expires a pocket case of surgical instruments, as a gift from Dr. David W. Cheever	3,500 00
<i>Charles P. Hemenway Fund.</i> —For a free bed, to be known as the Charles P. Hemenway Memorial Bed	5,000 00
<i>Herbert L. Burrell Ether Prize Fund.</i> —For a money prize to be given to the house officer who administers ether or other anæsthetic in the most skillful and humane manner	1,000 00
<i>Silas Durkee Fund.</i> —“For the benefit of the Boston City Hospital”	15,050 00
<i>Daniel S. Ford Fund.</i> —“For the benefit of the Boston City Hospital”	6,000 00
<i>Carried forward</i>	\$72,050 00

<i>Brought forward</i>	\$72,050 00
<i>Carter Fund.</i> —For books for the benefit of the Training School for Nurses	2,000 00
<i>Hettie Lang Shuman Memorial Library Fund.</i> — To be expended in perpetuity by the trustees for new books for the use of hospital patients and for the replacing of volumes that have become damaged, lost or destroyed	2,000 00
<i>William T. Bolton Fund.</i> —For the benefit of the Boston City Hospital	500 00
<i>Patrick A. Collins Memorial Library Fund.</i> — For the purchase of new books for the use of hospital patients and for the replacing of those that have become damaged, lost or destroyed,	500 00
<i>Mehitable C. C. Wilson Fund.</i> —For the benefit of the Medical Library	500 00
<i>Nurses' Fund.</i> —To be used under direction of superintendent and staff for employment of special nurses	10,200 00
<i>Dr. George S. Hyde Fund.</i> —For the support of a free bed	5,000 00
<i>Timothy Smith Fund.</i> —"For the purpose of maintaining and conducting The Boston City Hospital"	5,000 00
Total	<u>\$97,750 00</u>

FUNDS WITH BOTH PRINCIPAL AND INTEREST AVAILABLE.

<i>Patrick A. Collins Memorial Library Fund.</i> —To purchase bookcases and books for the use of hospital patients. Balance on hand January 31, 1921	\$146 56
<i>The Thorndike Memorial.</i> —Bequest of George L. Thorndike. To be used for erection of Thorndike Memorial Building. Balance on hand January 31, 1921	200,267 96
Total	<u>\$200,414 52</u>

THE BOSTON CITY HOSPITAL TRAINING SCHOOL FOR NURSES.

The trustees of the Boston City Hospital in 1878 established a Training School for Nurses, the fourth organized in the United States, in order to give to women desirous of becoming professional nurses a systematic course of training and practice.

The Training School is controlled by the trustees of the hospital, like all other departments of the hospital service. The Superintendent of the Hospital has the general supervision of all matters relating to the school, its course of work and study, lectures and discipline. The Superintendent of Nurses has the immediate charge of all the nursing in the hospital, of all persons employed in the wards and also the instruction and management of the nurses in the Training School. All female nurses in the hospital must be connected with the school.

The hospital in all its departments contains 1,196 beds for patients as follows:

Main Hospital	794
South Department for Infectious Diseases	334
Haymarket Square Relief Station	24
East Boston Relief Station	10
Convalescent Home	34
Total	1,196

The number and variety of cases in each department afford ample material for observation and instruction. The course requires three years, and includes general medical and surgical nursing, together with ophthalmic, aural and gynæcological nursing, also the nursing of children and infectious diseases and of emergency surgical work. A maternity ward connected with the hospital

provides a course in maternity nursing. Affiliation at maternity hospital elsewhere, without extra cost to the nurse, has also been arranged.

The most desirable age for candidates is from twenty-one to thirty-five years. They must be of sound health, and should send with their application a certificate from a physician certifying to the fact. They should also send a brief personal history and give the names and addresses of three responsible persons, not of their own kin, preferably their last employer, if any, or business men of their acquaintance, who know of their good character and capabilities. Upon the recommendation of the Superintendent of the Hospital and Superintendent of Nurses, they will be received for three months on probation. The fitness of candidates for the training and work, and the propriety of retaining or dismissing them will be determined by the authorities in charge of the school, under the direction of the trustees. At least two years of high school work is necessary. An entrance examination, held every Tuesday morning at ten o'clock except holidays, is given to all candidates before the term of probation. The examination is in simple arithmetic, English composition and writing from dictation, etc., and is in no sense so severe as to prevent anyone who is capable of undertaking the work of a trained nurse from so doing. The Superintendent of Nurses will have a personal interview with candidates for the school on Tuesdays from ten to twelve o'clock.

At the end of the second month, candidates, if considered satisfactory, are permitted to wear the cap and enter upon the regular course of training, but such candidates are not permitted to join the school formally until the end of the third month, when, if accepted, they sign an agreement to complete the prescribed course of three years and to conform to all rules. At the end of the first six months the record and work of each pupil are carefully scrutinized as to her fitness to make a good nurse, and the right is reserved by the authorities of the hospital to terminate then, or at any time, the connection of any

pupil or nurse with the school for inefficiency, misconduct, generally unsatisfactory record, or for any other reason which may be deemed sufficient.

The nurses in the Training School (including probationers) reside at the three Nurses' Homes connected with the hospital. These houses are attractive and home-like, and have the best of conditions necessary to good health and personal hygiene, while recreation and amusement, necessary to a wholesome life, have been considered in the music room, library and reception rooms provided.

The Superintendent of Nurses has the immediate charge of the Training School, under the authority of the Superintendent of the Hospital and of the trustees, and the nurses are subject to the rules of the hospital, like any other service.

The instruction includes the general care of the sick, the making of beds, changing the bed and body linen, managing of helpless patients in bed, etc., giving baths, keeping patients warm or cool, prevention or dressing of bed sores, and proper management of the patient under various conditions with different diseases or injuries; the making and applying of bandages and rollers, preparation of splints, application and management of surgical apparatus, applying of fomentations and poultices, the dressing of burns, ulcers and wounds and other minor dressings and subsequent treatment, the administering of enemata and the use of the female catheter.

Nurses are taught how to act in the various emergencies occurring in hospital and private nursing, as well as in the accidents of ordinary life. They are also given lessons in massage by a professional instructor. There is a systematic course of training in cookery for the sick, the serving of food and delicacies in the proper manner and the feeding of helpless patients or those who resist food. Instruction is also given in the best practical methods of supplying fresh air, of warming and ventilating sick rooms in a proper manner and the proper care of sick rooms for the best good and comfort of the patient in keeping all utensils and appliances perfectly clean and

disinfected; in making accurate observations of the pulse, temperature, respiration, expectorations, the secretions, state of the skin, and eruptions; of mental condition, as delirium, stupor, shock, etc., of the condition as to sleep, appetite, effects of diet or of stimulants and medicines; the behavior of wounds and the after treatment in surgical operations; and in the managing of convalescents. Nurses are taught the administering of medicines and the application of external remedies, how to take notes on cases, the making up of the nurse's record, and the reports to the attending doctor.

The three years' course of training includes a preparatory course of three months under a special instructor, followed by a fixed course of instruction from manuals and text-books, mainly given by the instructors, dietitian and graduate head nurses. Lectures and demonstrations, chiefly upon practical points, are given at stated times by the medical and surgical staff of the hospital. While the instruction by the manuals, text-books, lectures, demonstrations, quizzes and models is considerable, the main reliance is upon accurate daily drill in the wards, operating rooms and other departments of the hospital. Examinations, both oral and written, are held from time to time by the authorities of the school, and nurses will not be graduated unless they attain, on critical marking, at least 70 per cent.

The pupils are employed as assistant nurses in the wards, operating rooms, out-patient departments of the hospital and the two Relief Stations. They are given training in medical, surgical, in contagious and gynæcological wards. Maternity training is provided. No class recitations or lectures are given between July 1 and October 1, except to the probation classes.

Probationers are not paid during their first two months, but for the remaining ten months of the first year they receive \$10 a month, for the second year \$12.50 a month, and for the third year \$16.67 a month while on duty in the hospital, to pay for the expenses of their uniform, personal clothing and other minor requirements. While

on duty in a maternity hospital they will receive the allowance provided by the hospital to which they are assigned. This sum is in nowise intended as wages, it being considered that their education during this time is a full equivalent for their services. When the term of three years is completed the nurses receive, if they pass all the examinations and are otherwise satisfactory, a diploma certifying to the regular course of training and practice, and are then permitted to wear the graduate's badge of the school.

The majority of graduates engage in private nursing, but some are invited to remain in the service of the hospital as head nurses, with opportunities of promotion here or in other hospitals. Graduate head nurses who prefer to remain in hospital work, or return after a term of private nursing, are given post-graduate instructions in ward management, hospital housekeeping and minor administrations, fitting them to fill positions of trust in hospitals or other institutions.

The school year has no fixed date, but accepted candidates are, as a rule, received in classes, beginning every three months. When coming to the hospital they should bring with them the following articles: Three dresses, on order from Superintendent of Nurses; eight large white aprons, made of bleached cotton, two yards wide, meeting in back, with bibs, without straps, without pockets, plain at the top and gathered slightly at the bottom, two pearl studs on the band, two inches wide, with hem at bottom five inches in depth, and two inches from the bottom of the dress; two bags for soiled clothes; one pair of scissors, a pinball, and a plain napkin ring with nurse's name; a good supply of plain underclothing, every article to be distinctly marked with pen and indelible ink with the owner's name. Twenty-one pieces are allowed for the laundry each week.

Nurses must bring suitable outer garments for stormy weather, and they are required to wear boots with rubber heels. If the teeth are out of order in any way they must receive attention before coming for the probation-

any month. Nurses are required to wear the Training School uniform after they join the school. Material for dresses will be sold at cost price; caps are furnished at a nominal price. Probationers must come prepared to expend about \$20 for uniforms, books and other needful expenses.

Hours of duty for day nurses will vary from six to twelve hours between the hours of 7 a. m. and 8 p. m.; for night nurses from 8 p. m. to 7 a. m. No nurse is required to do both day and night duty on the same day, except in rare emergencies. Each nurse on day duty is allowed three hours for rest and recreation, one half day after 1.30 p. m., each week, and four hours on Sunday. Two weeks' vacation with pay is allowed each year, and one week without pay as leave of absence during the third year. If nurses are sick they are cared for in the hospital, but pay is stopped, except for illness or injury received in the line of duty. Pupils may be expected to have a percentage of any considerable time lost by illness or absence added to their three years, at the discretion of the management. Nurses on night duty are required to be in bed from 9 a. m. until 4 p. m.

COURSE OF INSTRUCTION.

I. PROBATIONER'S COURSE.

The first week the probation class meets in the practice room daily for practical instruction in the making of beds, including the use of bed rests, cradles, etc.

The care of rooms, sweeping and dusting.

Care of set bowls, wall-stands and utensils.

Care of linen rooms, the folding of linen.

The use of hot and cold applications, including the making of fomentations and poultices.

The care of rubber goods.

The making of surgical supplies, pads, sponges, tampons, etc.

The use of slings, binders and supports.

During this time the class is instructed in the use of antiseptics, disinfectants and deodorants, and the preparation of solutions.

Tables of weights and measures.

The use of abbreviations and symbols.

The principles of ventilation.

The temperature of the body. Heat production and radiation.

The use of the clinical thermometer and charts.

The giving of baths, care of the back, mouth, etc.

From the seventh (7th) to the tenth (10th) day allowed to go to the wards, make beds, sweep, dust and fold linen (hours from 7 to 10.30 a. m.)

The tenth (10th) day assigned to wards for regular duty, and during the remaining weeks of the probation course three hours each day will be devoted to class and practice room work, with one additional hour for recreation.

Total Hours of Study and Ward Work in Three Months' Probation.

Anatomy, Physiology and Hygiene	68 hours.
Practical Nursing and Practice Room	148 hours.
Materia Medica and Nursing Ethics	24 hours.
Dietetics	8 hours.
Ward Work	481 hours.

I. FIRST YEAR.

Anatomy	36 hours.
Chemistry	12 hours.
Contagious Nursing	12 hours.
Bacteriology	12 hours.

II. SECOND YEAR.

Materia Medica	18 hours.
Laboratory Technique	12 hours.
Dietetics	12 hours.
Cooking	12 hours.
Hygiene and Sanitation	12 hours.

III. THIRD YEAR.

Surgical Clinics	12 hours.
Medical Clinics	12 hours.
Obstetrical Lectures	12 hours.

The prospectus is subject to change.

An excellent reference library is open to nurses for more extended reading upon subjects under consideration.

LIST OF LECTURES AND SUBJECTS.

A lecture is given to the Training School on Fridays at 4 p. m. in the operating amphitheater by a member of the Medical and Surgical Staff, once a week between September 15 and June 30. The following are among the lectures given at various periods during the training:

<i>One.</i> —Hygiene and Sanitation.	<i>One.</i> —Drugs.
<i>One.</i> —Ethics.	<i>Four.</i> —Therapeutics.
<i>Three.</i> —Contagious Nursing.	<i>Two.</i> —Care of Children.
<i>Two.</i> —Urinalysis.	<i>Three.</i> —Ear, Nose and Throat.
<i>Two.</i> —Etherization.	<i>One.</i> —Bandaging.
<i>Two.</i> —Pathology.	<i>Two.</i> —Nervous Diseases.
<i>Two.</i> —Gynæcology.	<i>Two.</i> —The Skin.
<i>Two.</i> —Vaccines and Serums.	<i>One.</i> —The Eye.
<i>Two.</i> —Emergencies.	

HOUSE RULES.

The House Rules, as well as the rules for House Officers, are at the present time being revised, and inasmuch as many changes will take place, it is deemed inadvisable to incorporate the rules in this report.

SPECIAL RULES FOR THE GOVERNMENT OF THE SOUTH DEPARTMENT.

The department of the Boston City Hospital located on the westerly side of Massachusetts avenue shall be designated as the South Department of the Boston City Hospital. It shall receive patients who require treatment for diphtheria, scarlet fever, measles, whooping cough, and for other infectious diseases as may be determined from time to time by the trustees.

The Superintendent and Medical Director of the hospital shall, under the direction of the trustees, have the general control and management of this department in the same manner as of other departments of the hospital.

The rules of the hospital shall, so far as applicable, and except as hereinafter provided, apply to the various officers and employees and to the conduct and management of this department.

SPECIAL RULES FOR THE GOVERNMENT OF
THE HAYMARKET SQUARE AND THE EAST
BOSTON RELIEF STATIONS.

The Boston City Hospital Relief Stations are established not as hospitals, but as departments of the Boston City Hospital for temporary relief, and the rules and methods prevailing now in the hospital shall, so far as applicable, and not inconsistent with special rules, apply to the Relief Stations.

The stations shall afford temporary relief in all classes of accident and disease. They shall be open at all hours for patients requiring treatment or attention. Patients requiring ward treatment, whether received at the stations or taken up in ambulances, shall, so far as is consistent with their welfare, be forthwith transferred or carried to the hospital for extended treatment, but ward accommodations shall be afforded patients whose condition is such that they cannot properly be transferred. Patients may, however, if it is deemed desirable, be transferred by the ambulances to other hospitals or to their homes. First treatment may be afforded at the stations, although the applicants are not such as require ward treatment.

The Superintendent of the Hospital shall have the general administration, management and control of the stations, the same as of other departments of the hospital.

The Superintendent shall, once a year, nominate for confirmation by the trustees a Resident Surgeon and one or more Assistant Resident Surgeons for each station; and shall appoint and employ or detail for service in each department, from time to time, as may be necessary, subject to the approval of the trustees or of the proper committees, a Matron, a Supervisor, nurses, male nurses and such other minor employees as may be required for the proper conduct of the station, who shall be subject to his supervision.

The various officers and employees of the stations shall perform such duties other than those specified as may be required by the trustees or the Superintendent, according to the nature of their respective duties. The Resident Surgeons, the Matron, Supervisors and such other officers as may be so required shall reside at the stations.

PATIENTS.

Alcoholic and insane patients shall not be received unless there is surgical or medical complication making hospital treatment absolutely necessary.

No patient, after being admitted to the wards, shall leave the station until his discharge without a pass from the proper officer, nor shall he visit other parts of the station without permission.

Ward patients shall be discharged by the Superintendent or Resident Surgeon.

AMBULANCE SERVICE AT THE HAYMARKET SQUARE RELIEF STATION.

The ambulance service of the station shall be under the direct control of the Resident Surgeon, and shall cooperate with that of the hospital, with which it shall form one general system. Ambulances shall, in response to calls, be dispatched from the station or the hospital as the exigency may require. The utmost dispatch shall be exercised in the ambulance service, so far as is consistent with a regard for the welfare of the patient and the interest of the public.

Ambulances shall in general be sent from the station or the hospital at least upon a general alarm to all fires occurring in the city proper and in such further districts as may be determined upon.

An ambulance shall be held during the hours of the day in complete readiness to make immediate response to calls, and shall be kept in condition to make prompt response to calls at any time of the night.

A house officer shall accompany the ambulance, shall

direct its course and shall have direction of the care and treatment of the patient until received at his destination.

The foreman of the ambulance service at the hospital station shall visit and inspect the Ambulance Department of the station from time to time, but the immediate carrying out of directions shall be under the assistant foreman at the station.

AMBULANCE SERVICE AT THE EAST BOSTON RELIEF STATION.

The rules and methods prevailing in the Haymarket Square Relief Station ambulance service shall, so far as applicable, be effective in the East Boston Relief Station ambulance service.

SPECIAL RULES FOR THE GOVERNMENT OF THE CONVALESCENT HOME.

The department of the Boston City Hospital located on Dorchester avenue, in Dorchester, shall be known as the Convalescent Home, and shall receive such patients recovering from acute diseases as shall be transferred to it from the main hospital for treatment during convalescence.

The Superintendent of the Hospital shall, under the direction of the trustees, have the control and management of the Convalescent Home in the same manner as of other departments of the hospital.

The Superintendent shall appoint, subject to the approval of the trustees, a Matron, and shall employ, under their direction, such further assistants as may be necessary for the proper conduct and service of the home.

The Matron, under the direction of the Superintendent, shall have the immediate charge of the home and the control of all nurses and other employees and patients. She shall reside at the home.

VISITORS.

Friends may be permitted to visit patients daily between three and four o'clock in the afternoon. In all cases the trustees, Superintendent and Matron may exercise discretionary powers as to excluding or admitting visitors.

Visitors shall leave the home and grounds at the expiration of the visiting hour, and shall visit no part of the home or grounds other than the reception room, except by permission from the proper authority.

No person shall give any article of food or drink to a patient unless by permission of the Matron.

