

Annual report of the Peter Bent Brigham Hospital : 1927.

Contributors

Peter Bent Brigham Hospital.

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PETER BENT BRIGHAM HOSPITAL --- BOSTON

FOURTEENTH ANNUAL REPORT

FOR THE YEAR 1927



1928

FORM OF BEQUEST

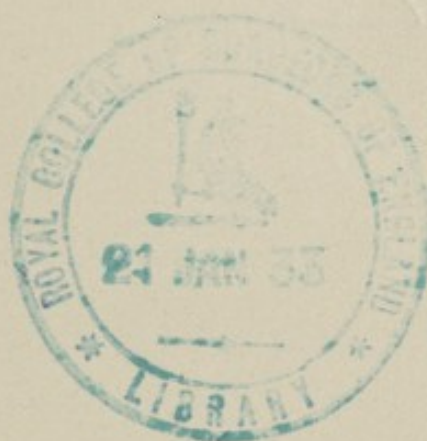
I give and bequeath to the Peter Bent Brigham Hospital, a corporation established under the laws of the Commonwealth of Massachusetts, the sum of _____ dollars, the same to be used for the furtherance of its charitable work.



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FOURTEENTH ANNUAL REPORT
OF THE
PETER BENT BRIGHAM
HOSPITAL

FOR THE YEAR
1927




1928





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President's Report

ON October 13, 1927, Dr. Francis Weld Peabody died, and not only the Boston City Hospital, where he was Visiting Physician and Director of the Thorndike Memorial Laboratory, and the Peter Bent Brigham Hospital where he was Consulting Physician, but the whole medical world feel the loss of a physician, teacher and scientist of the highest merit.

During the past year, two doctors who have received a part of their education at this hospital have been honored by appointments to positions of importance in other hospitals and medical schools. Dr. Wilson George Smillie, who was medical house officer in the Peter Bent Brigham Hospital from November 1, 1912, to March 1, 1914, and Assistant Resident Physician from March 1, 1914, to September 1, 1914, has been appointed Professor of Public Health Administration in the School of Public Health in Harvard University. Dr. A. M. Hjort, who was medical house officer from July 1, 1921, to November 1, 1922, has been appointed Professor of Pharmacology at the Medical School of Dartmouth College, Hanover, New Hampshire.

There have been completed much-needed additions to the Administration Building; better offices were given to the physicians and surgeons; much needed space was made for clerical service; rooms were provided for all the residents, some of whom had had to live outside the hospital; and the house officers in-

PETER BENT BRIGHAM HOSPITAL

creased in number as they now are, were made more comfortable.

The X-Ray Department has been enlarged and improved until now it is equal to and perhaps is superior to any other establishment of a similar nature in the city. Under Dr. Sosman's direction over nine thousand patients have been seen, including ward cases, Out-Door Department and private ward cases, and private visiting patients of moderate means sent by outside doctors to take advantage of low charges.

Dr. Reginald Fitz has given important and valuable attention during the past year to the care of the patients and the instruction of the house-officers and students in the Out-Door Department. It is reported to the Board that the appointment system in the Out-Door Department is working well. Under this system, while provision is always made for seeing at once those patients who require immediate attention, other patients may make appointments to be seen at their convenience at any time during the day; they do not all have to come as formerly, and as they do now at most of the Out-Door Departments in the City, at a certain hour in the morning and stay until they are at last seen and treated. Under this system, also, the doctors can more nearly give adequate time to the examination of each patient.

Attention is called to the chapter in Dr. Christian's report on the discovery of a cure for pernicious anemia completed this year by Dr. George R. Minot and Dr. William P. Murphy, both on the staff of the Peter Bent Brigham Hospital. This discovery of incalculable value, was developed in our medical laboratories, situated as they are near the wards where the patients could be studied in connection with this scien-

REPORT OF THE PRESIDENT

tific work. The Hospital must look forward to further endowments in order to build laboratories needed for similar scientific work. Doctors of known ability stand ready to join our staff and volunteer their services in searching to solve problems of promise which now rest unfinished.

The Board has always appreciated and are glad to encourage the loyalty that the graduates of the School of Nursing have shown for this hospital.

The Hospital acknowledges with gratitude the gifts received during the past year, a list of which will be found on the pages immediately following this report.

The Board of Incorporators here record their appreciation and gratitude for the faithful services rendered by the staff and employees.

C. P. CURTIS,
President.

DECEMBER 31, 1927.

Gifts to the Hospital During Year 1927

Mr. Jesse Koshland	\$ 25.00
Anonymous	20.00
Mr. William B. Livermore	10.00
Boston Firemen's Relief Association for a free bed for year 1927	200.00
Mr. Charles P. Curtis for a free bed for year 1927	100.00
Anonymous gift for a Fund for Research Purposes	1,500.00
Mrs. Alimena S. Gray gift to the Philip H. Gray Fund for the furtherance of Neuro-Surgery	10,000.00
Committee of the Permanent Charity Fund, Inc., to be used for the general purposes of the Social Service Department	2,562.50

Gifts to the Diabetic Research Fund:

Mrs. Emily Romney	50.00
Anonymous	335.93

Gifts to the Social Service Fund:

Mrs. H. Pauline Merrick \$	25.00	Mrs. J. L. Grandin, Jr. ..\$	25.00
Mrs. George E. Warren	25.00	Mrs. Edward J. Holmes	5.00
Mrs. Charles L. Slattery	5.00	Mrs. Ronald Lyman	25.00
Mrs. William Amory ...	10.00	Mrs. Henry B. Chapin ..	10.00
Anonymous	10.70	Mr. and Mrs. F. Gordon Abbott	10.00
Miss Harriet Curtis	10.00	Mrs. Joseph B. Howland	10.00
Mrs. H. V. Greenough ..	10.00	Mrs. Richard T. Fisher	100.00
Mrs. Henry S. Grew	10.00	Mr. Henry S. Howe ...	25.00
Mr. Charles Storrow ...	10.00	Dr. Francis W. Peabody	10.00
Miss Fannie M. Faulkner	20.00	Mrs. R. T. Payne 2nd ..	15.00
Mrs. Edward W. Grew	5.00	Miss Olivia Ames	10.00
Mrs. William Aldrich ..	10.00	Mrs. Edward A. Taft ..	10.00
Mr. and Mrs. Lawrence Lowell	25.00	Dr. Harvey Cushing	50.00
Mrs. Philip Dexter	10.00	Mrs. W. R. Peabody ...	10.00
Mrs. George H. Lyman	10.00	Mr. G. G. Peters	50.00
Miss Sarah Bremer	25.00	Mrs. Pierpont Stackpole	500.00
Mr. L. H. H. Johnson ..	50.00	Mrs. Albert Davis	10.00
Miss Elizabeth Brown ..	10.00	Mrs. Moses Williams ..	5.00
Miss Clara E. Sears	5.00	Miss Ellen F. Mason ...	10.00
Mrs. H. D. Chandler ...	5.00	Mrs. M. G. Houghton ..	10.00

GIFTS TO THE HOSPITAL

Mrs. R. H. Fitz	\$ 10.00	Mrs. William Emerson..	\$ 50.00
Mrs. John C. Gray	25.00	Mrs. J. L. Bremer	25.00
Mrs. Richard C. Curtis	10.00	Mrs. Herbert F. Day ...	3.00
Mrs. Philip Stockton ...	5.00	Mrs. James Jackson	10.00
Mr. Arnold Hunnewell ..	25.00	Mr. and Mrs. Norman	
Mrs. Arthur Hunnewell ..	25.00	Cabot	30.00
Mrs. John Homans	10.00	Mr. Edward C. Fitz	10.00
Mrs. John S. Ames	10.00	Miss Edith Fitz	10.00
Mrs. W. Scott Fitz	20.00	Mrs. George B. Blake ..	25.00
Miss Ida Beale	5.00	Anonymous	10.00
Mrs. Frederick Winthrop ..	20.00	Mrs. R. H. Gardiner, Jr.	5.00
Mrs. Shepherd Brooks ..	100.00	Mrs. Horace Binney ...	5.00
Miss Mary Hunnewell ..	10.00	Mrs. Henry S. Howe ..	25.00
Mr. and Mrs. F. Douglas		Mrs. Davies Sohler	5.00
Cochrane	100.00	Mrs. Christian A. Herter ..	5.00
Mrs. Stephen M. Weld ..	10.00	Miss Mary Curtis	5.00
Mrs. Herman Burr	15.00	Miss Evelyn R. Sturgis..	25.00
Miss Ida M. Mason	25.00	Miss Jane B. Hunnewell ..	20.00
Mrs. F. W. Sargent	1,000.00	Mrs. Harry L. Bailey ..	60.00
Mr. George E. Cabot ...	25.00	Mrs. John C. Lee	10.00
Miss Amelia Peabody ..	15.00	Mrs. Walter Hunnewell ..	25.00
Mrs. Amory A. Lawrence ..	25.00	Mrs. William Hooper ..	10.00
Mrs. Walter C. Baylies..	25.00	Mrs. C. W. Whittier	10.00
Mrs. Arthur B. Denny ..	25.00	Mrs. Sidney Williams ...	10.00
Mrs. A. Hemenway	25.00	Mrs. L. A. Frothingham ..	25.00
Mr. T. Hassell Brown ..	5.00	Mr. Frank Hunnewell ..	100.00
Mrs. I. C. Ingraham	5.00	Mrs. Gilbert Horrax	10.00
Mr. Charles P. Curtis ..	100.00	Mrs. John C. Phillips ..	10.00
Mrs. Eliot Hubbard	10.00	Mrs. R. G. Shaw	10.00
Mrs. Reginald Foster ..	5.00	Mrs. Arthur Rotch	10.00
Mrs. D. McKay Frost ..	10.00	Mrs. C. A. Hardy	15.00
Miss Louise Hunnewell..	20.00	Mrs. Arthur Cabot	35.00
Mrs. H. G. Brooks	5.00	Mrs. Everett Morss	5.00
Mrs. John P. Reynolds..	25.00	Mrs. John C. Gray	10.00
Mrs. Herbert Lyman ...	10.00	Miss Mary F. Bartlett ..	10.00
Mrs. John L. Thorndike ..	10.00	Mrs. F. Murray Forbes ..	100.00
Mrs. F. C. Hall	10.00	Mrs. Herman Burr	15.00
Mrs. J. A. L. Blake	10.00	Mr. A. A. Carson	50.00
Mrs. Henry Lyman	15.00	Mrs. Philip Saltonstall ..	5.00
Mrs. Richard D. Sears ..	10.00	Mrs. Cora Ely	5.00
Miss Ellen Bullard	10.00	Mrs. Katharine Homans ..	10.00
Mr. H. J. Sargent	200.00	Mr. William Homans ..	10.00
Mrs. George P. Denny ..	25.00	Mr. Gordon Dexter	25.00
Mrs. Robert W. Emmons ..	15.00	Miss Margaret Warren ..	5.00
Mrs. Neal Rantoul	25.00	Mr. W. S. Perle	100.00
Mrs. Marshall Fabyan ..	5.00	Mrs. Ellerton James	5.00
Mrs. Henry A. Morss ..	25.00	Mrs. Malcolm Donald ..	10.00
Dr. and Mrs. David		Miss Rose L. Dexter ...	25.00
Cheever	25.00	Mrs. H. G. Byng	10.00

PETER BENT BRIGHAM HOSPITAL

Mrs. Wm. Whitman, Jr. \$	10.00	Mrs. C. P. Curtis	\$ 50.00
Mr. William Amory	500.00	Mrs. J. Harleston Parker	10.00
Mrs. William Baltzell ..	25.00	Mrs. Philip Dalton	5.00
Mrs. George R. Fearing	10.00	Mrs. Henry P. Binney ..	25.00
Mrs. P. H. Lombard ...	20.00		
Miss Hersey's School Association			100.00
Proceeds of Garden Party at the Hunnewell Estate			700.00
Proceeds of Food Sale and Fair			844.09

Free Bed Fund

Alexander Cochrane Free Bed	\$10,000.00
Walter Hunnewell Free Bed	10,000.00
Miss Aimee Lamb (In memory of Mrs. Winthrop Sargent)	5,000.00
Theodore Lyman Free Bed	1,000.00 for ten years
Boston Firemen's Relief Association Free Bed	200.00 for one year
Charles P. Curtis Free Bed	100.00 for one year

Report of the Treasurer

A STATEMENT of receipts of income from investments and of payments therefrom out of the office of the Treasurer for the year ending December 31, 1927, is as follows:

INCOME

Real Estate Receipts:

Rents	\$208,782.98	
Taxes paid by tenants	35,677.38	
Insurance paid by tenants	803.87	
Portland Street Power Plant net receipts	654.60	
	<hr/>	\$245,918.83

Interest on investments:

On bonds	\$48,003.17	
On mortgages	4,945.00	
	<hr/>	\$52,948.17
Dividends	29,849.00	
	<hr/>	82,797.17

Bank interest	678.37
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Total income	\$329,394.37
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EXPENDITURES

Taxes	\$ 87,428.70
Building repairs, etc.	18,716.60
Insurance	7,271.53
Brokerage on leases	492.29
	<hr/>
<i>Amount carried forward</i>	\$113,909.12

REPORT OF THE TREASURER

<i>Amount brought forward</i>	\$113,909.12	
Salaries	7,800.00	
Legal expenses	2,570.26	
Audit	1,050.00	
Safe Deposit Box Rent	70.00	
Printing	10.50	
Total expenditures	\$125,409.88	
Bond premiums amortized	639.76	
		<u>126,049.64</u>
		\$203,344.73
Transferred to Portland Street Power Plant Depreciation Ac- count	\$ 654.60	
Transfer of income applicable to the following funds for year 1927:		
Surgeon-in-Chief Fund	1,565.22	
John P. Reynolds Scholarship Fund	125.00	
		<u>2,344.82</u>
Net investment income available for Hospital Operating expenses	\$200,999.91	
Net payments for Hospital Operating expenses as shown by Superintend- ent's statement appended	\$205,907.19	
Gain in Superintendent's supplies ..	1,596.01	
		<u>207,503.20</u>
Deficit for year 1927 charged to General Fund ..	\$ 6,503.29	

SCHEDULE OF PROPERTY

Land and buildings occupied for Hospital includ- ing furniture and fixtures	\$2,267,921.58
Mortgages	65,600.00
	<u> </u>
<i>Amount carried forward</i>	\$2,333,521.58

PETER BENT BRIGHAM HOSPITAL

Amount brought forward\$2,333,521.58

Land and buildings:

166-210 Portland Street	787,055.22
38-54 Scollay Square (formerly 5-11 Tremont Row)	493,221.99
224-30 Congress Street	99,961.97
108-114 Lincoln Street	153,368.45
223-5 Washington Street	201,868.05
91-5 Portland Street	75,957.25
67-9 Commercial Street	73,999.76
1-3 Bowdoin Street	54,452.51
148-50 Hanover Street	60,787.78
1-7 Sudbury Street	70,159.03
4-14 Cambridge Street (formerly 88-92 Court Street)	192,888.53
94-8 Arch and 13-17 Otis Street	166,479.61
Land corner Albany and Dover Streets	110,221.90
1,000 shares Boston & Maine R. R. Co. Pfd. A	129,432.68
120 shares Boston & Maine R. R. Co. P. P. Pfd. 40% paid	4,800.00
100 shares Boston & Albany R. R. Co.	25,800.00
524 shares Vermont & Mass. R. R. Co.	91,700.00
450 shares Old Colony R. R. Co.	93,150.00
183 shares Nashua & Acton & Boston R. R. Co.	183.00
300 shares State Street Exchange	25,960.00
50 shares Boston Real Estate Trust	58,514.25
150 shares Hotel Trust (Touraine)	15,900.00
100 shares South Terminal Trust	10,300.00
100 shares Newport Electric Corporation	13,278.33
1,000 shares Berkeley Hotel Trust	65,000.00
330 shares New York Central & Hudson River R. R. Co.	32,367.95
100 shares Chicago, Milwaukee & St. Paul R. R. Co.	14,760.70
220 shares Pennsylvania R. R. Co.	11,731.88
1,500 shares New York, New Haven & Hartford R. R. Co. Com.	28,500.00

Amount carried forward\$5,495,322.42

REPORT OF THE TREASURER

Amount brought forward\$5,495,322.42

375 shares New York, New Haven & Hartford R. R. Co. Pfd.	37,500.00
\$150,000 American Telephone & Telegraph Co. 4% bonds due 1929	139,887.50
60,000 Portland & Ogdensburg R. R. 4½% bonds due 1928	60,080.41
25,000 Long Island R. R. Co. Gold Debenture 5% bonds due 1934	24,000.00
5,000 Kansas City, Memphis Ry. & Bridge Co. 5% bonds due 1929	5,014.57
100,000 Chicago, Burlington & Quincy R. R. Co. Ill. Div. 3½% bonds due 1949	89,077.50
20,000 Washington Water Power Co. 5% bonds due 1939	20,195.24
50,000 Boston & Maine R. R. Co. 4½% and 5% bonds due 1944	50,481.33
50,000 Interborough Rapid Transit Co. 5% bonds due 1966	49,500.00
50,000 Burlington Cedar Rapids & Northern R. R. Co. 5% bonds due 1934	51,808.65
25,000 New York Central & Hudson River R. R. Co. first mortgage 3½% bonds due 1997	21,875.00
50,000 Cleveland, Loraine & Wheeling R. R. Co. 5% bonds due 1933	51,487.57
25,000 New York Central & Hudson River R. R. Co. Deb. 4% bonds due 1934	23,937.50
25,000 Northern Pacific R. R. Co. Prior Lien 4% bonds due 1997	24,781.25
50,000 Eastern Mass. Street Ry. Co. series A 4½% bonds due 1948	41,450.00
2,500 Eastern Mass. Street Ry. Co. series D 6% bonds due 1948	
25,000 Quincy Market Realty Co. 5% bonds due 1964	
	25,000.00

Amount carried forward\$6,211,398.94

PETER BENT BRIGHAM HOSPITAL

Amount brought forward\$6,211,398.94

28,000 General Electric Co. 3½% bonds due 1942	23,170.00
56,800 Pere Marquette Ry. Co. 1st Mortgage 5% bonds due 1956	49,420.00
3,000 Pennsylvania R. R. Co. 4% bonds due 1948	2,880.00
50,000 Atchison, Topeka & St. Fé Ry. Co. Trans-Continental Short Line 4% bonds due 1958	47,500.00
50,000 Illinois Steel Co. 4½% bonds due 1940	47,375.00
50,000 Liberty Loan 4½% bonds due 1938 ..	48,187.50
25,000 Cedar Rapids Mfg. & Power Co. 1st mortgage 5% S. Fd. bonds due 1953	24,250.00
20,000 Milwaukee Electric Railway & Light Co. Ref'd Ext'n mortgage 4½% bonds due 1931	18,500.00
15,000 Montreal Light & Power Co. first mort- 4½% bonds due 1932	13,875.00
10,000 Atchison, Topeka & St. Fé R. R. Co. East Okla. 1st mortgage 4% bonds due 1928	9,649.60
15,000 Baltimore & Ohio R. R. Co. So. West Div. 5% bonds due 1950	14,887.50

Cash:

Operating Expense Fund	\$20,000.00
Less overdraft at bank	5,619.05
	<hr/> 14,380.95

Superintendent's inventories 54,403.56

\$6,579,878.05

Included in the above schedule of property are the following Special Funds:

DIABETIC RESEARCH FUND\$ 144.24

Amount carried forward\$ 144.24

REPORT OF THE TREASURER

Amount brought forward\$ 144.24

PHILIP H. GRAY FUND for the fur- therance of Neuro-Surgery	6,117.63	
JOHN P. REYNOLDS MEMORIAL FUND	1,000.00	
HEMENWAY SQUASH COURT	11,050.00	
SURGICAL DRESSING FUND—Donation from the New England Surgical Dressing Committee	10,000.00	
SURGEON-IN-CHIEF FUND	31,304.46	
JOHN P. REYNOLDS SCHOLARSHIP FUND	2,500.00	
RADIUM FUND	3,000.00	
ALEXANDER COCHRANE FREE BED FUND	10,000.00	
THEODORE LYMAN FREE BED FUND ..	1,000.00	
AIMEE LAMB FREE BED FUND in memory of Mrs. Winthrop Sargent ..	5,000.00	
WALTER HUNNEWELL FREE BED FUND	10,000.00	
FICTION LIBRARY FUND	12.56	
SOCIAL SERVICE FUND	401.89	
MRS. THATCHER R. KIMBALL FUND	1,500.00	
		93,030.78
		<hr/>
		\$6,486,847.27

Viz.:

Peter Bent Brigham Hospital accounts	\$6,480,110.29
Portland Street Power Plant— Depreciation account	4,969.91
Surgeon-in-Chief Fund—income account	1,565.22
John P. Reynolds Scholarship Fund—income account	201.85
	<hr/>
	\$6,486,847.27

EDMUND D. CODMAN,
Treasurer.

Report of the Superintendent

THE thirteenth annual report of the Superintendent follows.

Dr. B. Henry Mason, first assistant superintendent, left on December 1st to assume the superintendency of the Waterbury Hospital, Waterbury, Connecticut. Dr. Leslie H. Wright, second assistant superintendent, was appointed by the Corporation to succeed him. During the remainder of the year, the position of second assistant superintendent remained unfilled, and Miss Carolyn Upton, a graduate of the Peter Bent Brigham Hospital School of Nursing, was temporarily added to the administrative staff as acting executive assistant. Miss Margaret Copeland, Executive Assistant since September, 1921, resigned June 1 to become superintendent of the Emerson Hospital in Concord, Concord, Massachusetts. Miss Helen Goodwin, a graduate of the Peter Bent Brigham Hospital School of Nursing, was appointed Executive Assistant to succeed Miss Copeland.

There were admitted to the wards during the year 4,607 patients as compared with 4,402 in 1926. The total number of days' treatment given was 78,645, an increase of 2,903 days over 1926.

Owing to the unfavorable economic situation in New England, 5,878 more days free and part-pay treatment were given than in the previous year. In the Out-Door Department, 7,699 new patients were received as compared with 6,192 in 1926. The total number of visits to the department during the year

REPORT OF THE SUPERINTENDENT

was 60,671, an increase of 5,039 over the previous year. The number of visits during the year exceeded all previous records.

The daily per capita cost for all house patients, based on the total expenditures in all departments of the hospital (excepting the amount paid graduate nurses employed at the expense of patients for special duty) was \$7.05, as compared with \$6.97 the previous year. Deducting the cost of operating the private ward and the Out-Door Department, the daily per capita cost was \$6.17—. In 1926, it was \$6.12+. Other comparisons are given in Table II on page 25.

The daily per capita cost of raw foods was \$.48+ as compared with \$.48— in 1926.

The work of the dietary department has been heavy and exacting, and has been ably carried on. There have been no changes in the salaried personnel of the department during the year. The number of calculated diets was 13,629 as compared with 11,614 the previous year. Outstanding among these calculated diets were Diabetic, 2,733; High Caloric, 743; Standard Nephritic, 1,102; Low Protein, 2,937; Sippy, 2,095; and Special Anemia Diets, 2,062.

Forty-two applications were received for admission to the six months' course for student dietitians. We have facilities for adequately training twelve students each year, therefore, many suitable applicants were rejected. Twelve students completed the course during the year.

The Fiction Library, primarily for the benefit of patients, but also much used by employees, is a valuable adjunct of the hospital. Nine thousand five hundred and ninety-four books were distributed including some in Polish, Greek, French, Italian and Yiddish.

PETER BENT BRIGHAM HOSPITAL

New books are always needed and we welcome gifts for the library, particularly fiction, travel, and bibliographies. Gifts of money for the purchase of books are particularly welcome in order that the selection of those most desired by our patients may be made by the Librarian.

The additions of two wings and the re-construction of the original part of the Administration Building were completed early in the year, giving much needed additional room for the School of Nursing Cooking Laboratory, locker rooms for special nurses, increased office space for clerks, School of Nursing, and dietitians, offices for members of the medical staff and much-needed bedrooms for the house staff. The X-Ray Department was entirely reconstructed and almost wholly re-equipped. It has now most modern facilities for ordinary X-Ray work, for pyelograms, and for superficial and deep X-Ray therapy. The department for ultra-violet light treatments has also been enlarged.

In August, the ground floor of the private ward pavilion, which had been used for physicians' offices, was opened as a semi-private ward of thirteen beds. This addition now brings the total number of beds in the private ward pavilion to 58.

One-half of the third floor of the Out-Door Department which had remained unfinished since the building of the hospital in 1913 was finished as an addition to the medical out-door clinic which occupies the rest of the floor.

The so-called "Zander Room" on the main floor of the Out-Door Department, which was originally intended for installation of apparatus for mechanical therapy, has never been used for that purpose. During

REPORT OF THE SUPERINTENDENT

the war, it was given over to the New England Surgical Dressings Committee and following that, was used for a number of years as a nurses' dormitory. Since the enlargement of the nurses' home made it no longer necessary to use it for this purpose, it has been used for various classes and clinics of Out-Door Department patients. The time has come when it should be partitioned into various sized class rooms as it has been found that we no longer have room for them at convenient hours.

The number of workers in the medical, surgical, and pathological laboratories has been larger than usual, and requests have come from those departments for additional space. The Executive Committee has requested that the Corporation consider ways and means for enlarging the laboratories in these departments for investigative work. We must very shortly take steps to increase the facilities for the clinical record library. Many of our much-used volumes of clinical records are now stored in the basement where they are inaccessible. Our record stenographers are housed in five separate rooms. It is highly desirable that they should be brought together into large offices in order that the wasted time bound to occur with division into a number of small units may be eliminated.

In closing this report, I wish to thank our large corps of professional and lay workers who have so splendidly cooperated, and who, by example and teaching, have fostered the spirit of service so necessary to the success of a hospital. I thank the members of the Corporation for their support during the year.

JOSEPH B. HOWLAND,
Superintendent.

DECEMBER 31, 1927.

PETER BENT BRIGHAM HOSPITAL

Table I

Table of Medical and Surgical Diseases in
Terms of International Classification

JANUARY 1, 1927, TO JANUARY 1, 1928

DISEASES		MEDICAL		SURGICAL		O. D. D.
		Disch.	Dead	Disch.	Dead	
I. EPIDEMIC, ENDEMIC, AND INFECTIOUS DISEASES						
1	Typhoid and paratyphoid fever	10	..	2	1	1
4	Malta fever	1	..	..	..	..
5	Malaria	2	..	..	..	1
7	Measles .....	..	..	..	..	1
8	Scarlet fever	3	..	..	..	1
11	Influenza	10	..	1	..	6
13	Mumps	1	..	..	..	3
16	Dysentery, bacillary	1	..	..	..	..
19	Spirochetal hemorrhagic jaundice ..	..	..	..	..	1
21	Erysipelas	4	1	1	..	..
22	Acute anterior poliomyelitis	3	1	1	..	3
23	Lethargic encephalitis	4	..	1	..	..
25	Other epidemic and endemic diseases	29	..	1	..	124
31	Tuberculosis of respiratory system	63	2	21	1	109
32	Tuberculosis of the meninges	3	2	..	..	..
33	Tuberculosis of intestines and peri- toneum	9	..	3	..	4
34	Tuberculosis of vertebral column ..	1	..	2	..	5
35	Tuberculosis of joints .....	..	..	2	..	11
36	Tuberculosis of other organs	8	..	32	1	18
37	Disseminated tuberculosis	5	2	2	..	..
38	Syphilis (includes tabes dorsalis and general paralysis of the insane) ..	191	4	33	..	149
39	Soft chancre .....	..	..	..	..	4
40	Gonococcus infection	16	..	19	..	71
41	Purulent infection, septicemia	5	4	5	1	89

REPORT OF THE SUPERINTENDENT

DISEASES	MEDICAL		SURGICAL		O. D. D.
	Disch.	Dead	Disch.	Dead	

II. GENERAL DISEASES NOT INCLUDEDLED ABOVE						
43	Cancer and other malignant tumors of the buccal cavity	1	..	6	..	6
44	Cancer and other malignant tumors of the stomach and liver	24	4	23	5	50
45	Cancer and other malignant tumors of peritoneum, intestines, and rectum	5	1	37	5	19
46	Cancer and other malignant tumors of female genital organs .....	..	..	7	1	4
47	Cancer and other malignant tumors of the breast	5	1	31	..	31
48	Cancer and other malignant tumors of the skin .....	..	..	1	..	3
49	Cancer and other malignant tumors of other and unspecified organs ...	22	2	45	7	22
	Malignant tumors of nervous system (verified)	1	..	74	17	..
50	Benign tumors and tumors not returned as malignant (tumors of the female genital organs excepted) ..	12	..	53	..	186
51	Acute rheumatic fever	43	..	1	..	26
52	Chronic rheumatism, osteoarthritis, gout	66	1	24	..	155
56	Rickets	1	..	2	..	3
57	Diabetes mellitus	90	1	27	..	124
58	Anemia	112	4	85	..	40
59	Diseases of the pituitary gland	1	..	54	4	2
60	Diseases of the thyroid gland	49	..	51	..	102
62	Diseases of the thymus gland .....	..	..	2	1	..
63	Diseases of the adrenals (Addison's disease)	1	..	1	..	..
64	Diseases of the spleen	11	..	..	..	1
65	Leukemia and Hodgkin's disease	16	6	6	1	12
66	Alcoholism (acute or chronic)	8	1	6	..	6
67	Chronic poisoning by mineral substances	2	..	..	..	5
68	Chronic poisoning by organic substances	3	..	1	..	..
69	Other general diseases	40	1	7	..	155

PETER BENT BRIGHAM HOSPITAL

DISEASES		MEDICAL		SURGICAL		O. D. D.
		Disch.	Dead	Disch.	Dead	
III. DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE						
70	Encephalitis (does not include Encephalitis lethargica)	2	..	10	..	2
71	Meningitis (does not include meningitis specified as meningococcic, tuberculous, rheumatic, etc.)	6	2	26	1	1
73	Other diseases of the spinal cord ..	12	..	4	..	4
74	Cerebral hemorrhage, apoplexy	25	4	9	..	5
75	Paralysis without specified cause ...	17	..	10	..	2
77	Other forms of mental alienation ..	34	..	21	..	27
78	Epilepsy	11	1	12	..	52
79	Convulsions (non-puerperal) (5 years and over)	1	..	7	..	4
81	Chorea	8	..	..	..	13
82	Neuralgia and neuritis	20	..	51	..	204
84	Other diseases of the nervous system	137	..	34	1	260
	Tumors of the nervous system (verified) .....	..	..	71	11	..
	Tumors of the nervous system (unverified) .....	..	..	68	2	..
	Tumors of the nervous system (suspect)	9	..	101	10	..
85	Diseases of the eye and annexa	60	..	17	..	28
86	Diseases of the ear and of the mastoid process	19	1	16	..	12
IV. DISEASES OF THE CIRCULATORY SYSTEM						
87-90	Diseases of the heart	488	69	92	4	431
91, 92	Diseases of the arteries	292	8	67	..	120
93	Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)	36	1	127	2	330
94	Diseases of the lymphatic system (lymphangitis, etc.)	3	..	22	..	22
95	Hemorrhage without specified cause	2	..	5	..	21
96	Other diseases of the circulatory system	249	4	34	..	378

REPORT OF THE SUPERINTENDENT

DISEASES		MEDICAL		SURGICAL		O. D. D.
		Disch.	Dead	Disch.	Dead	
V. DISEASES OF THE RESPIRATORY SYSTEM						
97	Diseases of the nasal fossae and the annexa	25	..	14	..	50
98	Diseases of the larynx	4	..	1	..	9
99	Bronchitis	57	1	16	..	146
100	Bronchopneumonia (including capillary bronchitis)	78	11	25	..	11
101	Pneumonia	48	19	5	..	4
102	Pleurisy	53	..	23	3	32
103	Congestion and hemorrhagic infarct of the lung	28	..	9	..	..
105	Asthma	39	..	3	..	196
106	Pulmonary emphysema	15	..	1	..	10
107	Other diseases of the respiratory system	16	1	17	1	189
VI. DISEASES OF THE DIGESTIVE SYSTEM						
108	Diseases of the mouth and annexa ..	101	..	17	..	167
109	Diseases of the pharynx and tonsils	68	..	87	..	79
110	Diseases of the esophagus	4	..	1	..	4
111	Ulcer of the stomach and duodenum	110	2	58	6	47
112	Other diseases of the stomach (cancer excepted)	48	..	5	1	32
114	Diarrhea and enteritis (2 years and over)	34	..	17	1	38
116	Diseases due to intestinal parasites ..	5	..	1	..	5
117	Appendicitis and typhilitis	3	..	146	2	153
118	Hernia, intestinal obstruction	39	..	217	5	229
119	Other diseases of the intestines	51	1	71	1	277
120	Acute yellow atrophy of the liver ..	2	2	..	..	..
121	Hydatid tumor of liver .....	..	..	1	..	..
122	Cirrhosis of liver	7	..	5	..	6
123	Cholelithiasis and cholecystitis	52	..	111	2	66
124	Other diseases of the liver	37	..	10	..	69
125	Diseases of the pancreas	1	1	5	..	..
126	Peritonitis without specified cause ..	6	..	17	1	5

PETER BENT BRIGHAM HOSPITAL

DISEASES		MEDICAL		SURGICAL		O. D. D.
		Disch.	Dead	Disch.	Dead	
VII. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA						
128	Acute nephritis	26	1	2	..	2
129	Chronic nephritis	40	4	11	1	23
130	Chyluria	1	..	..	..	..
131	Other diseases of kidneys and annexa (diseases of the kidneys in pregnancy excepted)	23	1	65	3	76
132	Calculi of the urinary passages	4	..	66	..	28
133	Diseases of the bladder	28	..	42	..	27
134	Diseases of the urethra, urinary abscess, etc.	2	..	20	..	11
135	Diseases of the prostate	23	..	73	9	41
136	Non-venereal diseases of the male genital organs	6	..	43	..	45
137	Cysts and other benign tumors of the ovary	2	..	39	..	35
138	Salpingitis and pelvic abscess	5	..	34	..	45
139	Benign tumors of the uterus	19	..	67	1	52
140	Non-puerperal uterine hemorrhage ..	3	..	6	..	14
141	Other diseases of the female genital organs	13	..	141	..	337
142	Non-puerperal diseases of the breast (cancer excepted)	1	..	7	..	23
VIII. THE PUERPERAL STATE						
143	Accidents of pregnancy	2	..	30	1	20
	Pregnancy normal	11	..	13	..	..
144	Puerperal hemorrhage	1	..	1	..	35
145	Other accidents of labor .....	..	..	1	..	22
IX. DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE						
151	Gangrene .....	..	..	12	2	5
152	Furuncle	4	..	17	..	162
153	Acute abscess	4	..	42	2	261
154	Other diseases of the skin and annexa	42	..	29	..	218

REPORT OF THE SUPERINTENDENT

DISEASES		MEDICAL		SURGICAL		O. D. D.
		Disch.	Dead	Disch.	Dead	
X. DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION						
155	Diseases of the bones (tuberculosis excepted)	10	..	25	2	14
156	Diseases of the joints (tuberculosis and rheumatism excepted)	14	..	11	..	103
158	Other diseases of organs of locomotion	6	..	17	..	156
XI. MALFORMATIONS						
159	Congenital malformations	21	1	37	..	25
XII. EARLY INFANCY						
160	Congenital debility, icterus, and sclerema .....	..	..	..	..	2
XIII. OLD AGE						
164	Senility	8	1	2	..	10
XIV. EXTERNAL CAUSES						
165	Suicide by liquid poisons .....	..	..	..	..	1
175	Poisoning by food	1	..	..	..	..
176	Poisoning by venomous animals ....	..	..	..	..	15
177	Other acute accidental poisonings (gas excepted)	10	..	1	1	5
179	Accidental burns (conflagration excepted)	1	..	7	..	108
181	Accidental absorption of irrespirable or poisonous gas	2	..	..	..	1
182	Accidental drowning .....	..	..	..	..	1
183	Accidental traumatism by firearms (weapons of war excepted) ....	..	..	2	1	2
184	Accidental traumatism by cutting or piercing instruments .....	..	..	11	..	169
185	Accidental traumatism by fall	5	..	89	5	591
187	Accidental traumatism by machines	2	..	2	..	..
188	Accidental traumatism by other crushing (vehicles, railways, land-slides, etc.)	2	..	67	9	245
189	Injuries by animals (not poisoning)	..	..	..	..	29

PETER BENT BRIGHAM HOSPITAL

DISEASES		MEDICAL		SURGICAL		O. D. D.
		Disch.	Dead	Disch.	Dead	
193	Excessive cold .....	..	..	1	..	2
201	Fracture (cause not specified)	1	..	..	..	..
202	Other external violence (cause specified)	4	..	55	..	1,166
203	Other external violence (cause not specified)	1	..	..	..	..
XV. ILL-DEFINED DISEASES						
205	Diseases not specified or ill-defined	39	..	78	..	1,334
	No disease	7	..	9	..	..

REPORT OF THE SUPERINTENDENT

Table II

Comparative Tables of Statistics

HOSPITAL WARDS AND SINGLE ROOMS

Patients in hospital first of year :

	1927	1926
Medical	93	84
Surgical	103	98
Total	196	182

Patients admitted during the year:*

Medical	2,330	2,111
Surgical	2,277	2,291
Total	4,607	4,402

Patients treated in hospital wards
and private rooms during the year :

Medical	2,423	2,195
Surgical	2,380	2,389
Total	4,803	4,584

Patients discharged during the year :

Well	652	729
Improved	2,902	2,580
Unimproved	290	278
Untreated	463	496
Died	310	305
Total	4,617	4,388

* The apparent discrepancy between these figures and those shown in Medical and Surgical tables on pages 18-24 are explained by the latter tables including transfers from Medical to Surgical and *vice versa*.

PETER BENT BRIGHAM HOSPITAL

	1927	1926
Patients in hospital end of year:		
Medical	79	93
Surgical	107	103
Total	186	196
Total patients days' treatment:		
Paying patients	45,684	48,659
Part paying patients	14,082	10,660
Free patients	18,879	16,423
Total	78,645	75,742
Percentage:		
Paying patients	58+	64+
Part paying patients	18—	14+
Free patients	24+	22—
Total	100	100
Average patients per day:		
Paying patients	125+	133+
Part paying patients	39—	29+
Free patients	52—	45—
Total	216—	208—
Average time per patient in hospital	17+ days	17+ days
Daily average cost per patient	\$7.05+	\$6.97—
Daily cost per capita for provisions		
for all persons supported .....	.48+	.48—
Patients were admitted as follows:		
Paying regular rate	2,832	2,951
Paying less than regular rate ...	682	454
Free	1,093	997
Total	4,607	4,402

REPORT OF THE SUPERINTENDENT

OUT-DOOR DEPARTMENT

Number of new cases treated	7,699	6,192
Medical	3,610	2,891
Surgical	3,874	3,131
Urological	215	170
Number of visits	60,671	55,632
Medical	32,312	28,899
Surgical	24,025	23,062
Urological	4,334	3,671
Cost of maintenance of Out-Door Department	\$35,696.05	\$36,188.43
Daily average cost per patient .....	.59—	.65+

AMBULANCE

Ambulance call during the year	601	641
Average calls per day	2—	2—
Mileage for patients	3,460	3,615
Other business	1,738	719
Total mileage	5,198	4,334

PETER BENT BRIGHAM HOSPITAL

Table III

Year	Expenses	Receipts	Number of patients admitted to wards	Total days' treatment	Average stay in hospital	Average cost per day per house patient	Daily cost per capita for pro-visions per day	OUT-DOOR DEPARTMENT				Average cost per visit
								Cost of maintenance	New cases treated	Visits		
1913	\$190,510.41	\$36,571.58	1,370	25,157	20—days	\$7.02—	\$0.53—	\$10,081.39	8,347	30,434		\$0.33+
1914	256,423.25	69,251.23	2,843	49,295	17+days	5.15+	.35—	12,108.39	8,536	36,523		.33+
1915	269,913.46	88,651.55	3,417	60,242	18—days	4.48—	.33+	16,551.07	9,810	47,687		.35—
1916	308,413.81	116,519.00	3,712	65,291	18—days	4.72—	.35—	19,140.56	10,995	53,405		.36—
1917	324,777.80	138,512.48	3,674	65,129	18—days	4.93+	.40—	18,989.10	7,952	45,153		.43—
1918	321,547.28	154,026.47	4,025	66,669	17—days	4.81—	.44—	20,557.07	7,631	49,972		.41+
1919	377,253.15	193,741.63	4,282	65,546	15+days	5.76—	.51—	25,033.43	7,862	49,572		.50+
1920	453,853.94	262,413.29	4,316	69,541	16+days	6.53—	.59—	25,694.39	7,707	52,116		.49+
1921	483,921.52	301,918.05	4,315	68,556	16—days	7.06—	.47—	28,157.67	8,111	58,014		.49—
1922	492,676.00	325,667.28	4,685	70,695	15+days	6.97—	.45+	29,510.51	8,801	57,967		.51—
1923	540,524.41	367,369.45	4,775	74,854	16—days	*6.64—	.47—	32,218.89	8,846	59,336		.54+
1924	535,531.70	354,083.78	4,658	72,539	16—days	*6.83—	.46+	33,753.42	7,081	60,291		.56—
1925	557,252.24	365,749.62	4,422	72,411	16+days	*7.12—	.48+	36,188.43	6,192	55,632		.65+
1926	578,207.16	389,781.57	4,402	75,742	17+days	*6.97—	.48—	35,696.05	7,699	60,671		.59—
1927	620,177.85	412,568.64	4,607	78,645	17+days	*7.05+	.48+					

* 1923, 1924, 1925, 1926 and 1927 do not include the cost of special nurses.

REPORT OF THE SUPERINTENDENT

Table IV

Expense and Revenue Statement

ADMINISTRATION EXPENSES

	1927	1926
Salaries, officers and clerks	\$35,393.96	\$ 35,167.71
Office expenses		10.00
Stationery, printing, and postage	6,421.64	5,594.32
Telephone and telegraph..	9,672.81	8,742.30
Liability insurance	1,235.39	2,105.63
Miscellaneous	2,165.49	1,575.40
Total administration penses	\$ 54,889.29	\$ 53,195.36

PROFESSIONAL CARE OF PATIENTS

Salaries and Wages:		
Physicians and surgeons	\$23,365.59	\$ 24,244.46
Sup't of nurses and assistants	9,625.18	9,450.12
Nurses	17,505.67	16,952.81
Special nurses	65,707.12	50,443.25
Orderlies	8,134.99	7,259.90
Druggists	6,789.12	5,824.93
Ward employees	10,143.51	9,080.42
Clerks	14,352.51	14,308.60
Instrument repairs	854.00	801.33
	<u>\$156,477.69</u>	<u>\$138,365.82</u>
Training School:		
Salaries of instructors..	\$ 4,490.02	\$ 4,813.09
Supplies	5,039.73	3,282.00
	<u>\$ 9,529.75</u>	<u>\$ 8,095.09</u>
Amounts carried forward	\$166,007.44	\$146,460.91

PETER BENT BRIGHAM HOSPITAL

	1927	1926
<i>Amounts brought forward</i>	\$166,007.44	\$146,460.91
Medical and Surgical Supplies :		
Apparatus and instruments	\$ 4,041.59	\$ 3,428.13
Medical and surgical supplies	29,842.64	26,591.73
Alcohol, liquors and wines	1,241.77	950.74
	————— \$ 35,126.00	————— \$ 30,970.60
Out-Door Department :		
Wages	\$12,974.27	\$ 13,351.98
Supplies	11,223.57	10,559.54
	————— \$ 24,197.84	————— \$ 23,911.52
X-Ray Service and Photography :		
Salaries and wages	\$17,357.03	\$ 15,496.82
Supplies	21,040.39	14,756.51
	————— \$ 38,397.42	————— \$ 30,253.33
Library	\$ 800.00	\$ 800.00
	————— \$ 800.00	————— \$ 800.00
Total professional care of patients' expenses	\$264,528.70	\$232,396.36

DEPARTMENT EXPENSES

Ambulance :		
Labor	\$ 3,141.00	\$ 2,991.90
Supplies	731.56	1,104.95
	————— \$ 3,872.56	————— \$ 4,096.85
Laboratories :		
Labor	\$16,108.91	\$ 15,324.50
Supplies	7,969.18	6,887.54
	————— \$ 24,078.09	————— \$ 22,212.04
Housekeeping :		
Labor	\$34,447.00	\$ 32,042.16
Supplies	12,708.24	13,314.14
	————— \$ 47,155.24	————— \$ 45,356.30
Kitchen :		
Labor	\$15,540.03	\$ 13,865.39
Supplies	1,319.28	1,941.30
	————— \$ 16,859.31	————— \$ 15,806.69
<i>Amounts carried forward</i>	\$ 91,965.20	\$ 87,471.88

REPORT OF THE SUPERINTENDENT

	1927	1926
<i>Amounts brought forward</i>	\$ 91,965.20	\$ 87,471.88
Laundry:		
Labor	\$10,645.19	\$ 10,116.49
Supplies	2,239.78	1,880.13
	<u>\$ 12,884.97</u>	<u>\$ 11,996.62</u>
Steward's Department:		
Labor	\$ 3,979.38	\$ 3,892.44
Provisions:		
Bread	2,040.98	2,039.73
Milk and cream	19,964.46	18,746.55
Groceries	20,310.38	20,663.75
Butter and eggs	14,863.64	14,936.85
Fruit and vegetables..	12,501.67	13,714.07
Meat, poultry and fish	28,380.52	29,565.79
	<u>\$102,041.03</u>	<u>\$103,559.18</u>
Total department ex- penses	\$206,891.20	\$203,027.68

GENERAL HOUSE AND PROPERTY EXPENSES

Electric department	\$ 4,388.98	\$ 4,312.62
Heat, light and power ...	55,726.35	55,365.50
Fuel	36.00	.....
Gas	3,774.61	3,789.21
Ice	232.80	61.80
Insurance	4,618.44	397.46
Water	3,830.28	2,781.48
Maintenance real estate and buildings	13,671.80	15,232.98
Maintenance, machinery and tools	163.59	208.87
Plumbing and steam fit- ting	7,425.81	7,437.84
	<u> </u>	<u> </u>
Total general house and property ex- penses	\$ 93,868.66	\$ 89,587.76

PETER BENT BRIGHAM HOSPITAL

EXPENSES FROM SPECIAL FUNDS

	1927	1926
Permanent Charity Fund . \$	2,562.50	\$ 2,750.00
Social Service Fund	6,240.95	5,940.80
Diabetic Research Fund ..	297.46	463.40
Fiction Library Fund	123.64	63.80
Gray Fund	11,663.09	10,592.40
Reynolds Scholarship Fund	125.00	125.00
<hr/>		
Total expenses from Special Funds	\$ 21,012.64	\$ 19,935.40

CORPORATION EXPENSES

Salaries, officers and clerks \$	1,000.00	\$ 1,000.00
Miscellaneous	490.00	400.00
<hr/>		
Total corporation ex- penses	\$ 1,490.00	\$ 1,400.00

CAPITAL EXPENDITURES

Ward A Ground	\$ 273.57	.....
Sprinkler system		\$ 346.00
O. D. D. alterations	348.80	63.38
<hr/>		
Total capital expendi- tures	\$ 622.37	\$ 409.38

SUMMARY EXPENSES

	1927	1926
Total administration expenses	\$ 54,889.29	\$ 53,195.36
Total professional care of patients' expenses	264,528.70	232,396.36
Total department expenses	206,891.20	203,027.68
Total general house and property expenses	93,868.66	89,587.76
<hr/>		
Total hospital expenses	\$620,177.85	\$578,207.16
Corporation expenses	1,490.00	1,400.00
Capital expenditures	622.37	409.38
<hr/>		
	\$622,290.22	\$580,016.54
<i>Amounts carried forward.....</i>	<i>\$622,290.22</i>	<i>\$580,016.54</i>

REPORT OF THE SUPERINTENDENT

	1927	1926
<i>Amounts brought forward</i>	\$622,290.22	\$580,016.54
SPECIAL FUNDS:		
Permanent Scholarship Fund	\$ 2,562.50	\$ 2,750.00
Social Service Fund	6,240.95	5,940.80
Diabetic Research Fund	297.46	463.40
Fiction Library Fund	123.64	63.80
Gray Fund	11,663.09	10,592.40
Reynolds Scholarship Fund	125.00	125.00
GRAND TOTAL	\$643,302.86	\$599,951.94

REVENUE		
	1927	1926
Administration receipts ..	\$ 1,732.72	\$ 1,708.75
Professional care of patients:		
Board of private room patients	\$108,566.35	\$106,967.21
Board of ward pay patients	111,065.65	113,088.01
Special nurses	78,357.43	60,694.42
Out-Door Department .	35,195.31	34,972.48
Photography and X-ray	44,290.75	39,149.58
Miscellaneous	31,249.92	30,916.45
	<u>\$408,725.41</u>	<u>\$385,788.15</u>
Department Receipts:		
Ambulance	\$ 2,051.35	\$ 2,166.36
Miscellaneous	59.16	118.31
	<u>\$ 2,110.51</u>	<u>\$ 2,284.67</u>
Total hospital receipts	\$412,568.64	\$389,781.57
Cash from Treasurer:		
Current expenses	\$209,099.21	\$189,825.59
Reynolds Scholarship Fund	125.00	125.00
Permanent Charity Fund	2,562.50	2,750.00
Social Service Fund ..	6,240.95	5,940.80
Diabetic Research Fund	297.46	463.40
Gray Fund	11,663.09	10,592.40
Fiction Library Fund ..	123.64	63.80
Additional Equipment:		
Out-Door Department	348.80	63.38
Ward A Ground	273.57	.....
Fire extinguishers ..	.....	346.00
	<u>\$230,734.22</u>	<u>\$210,170.37</u>
GRAND TOTAL	\$643,302.86	\$599,951.94

Statement of Stock on Hand

	1927	1926
Administration supplies	\$ 3,493.75	\$ 4,472.88
Professional care of patients' supplies	17,487.31	14,261.96
Department supplies	31,824.91	32,474.84
General house and property supplies	1,597.59	1,597.87
	<hr/>	<hr/>
	\$54,403.56	\$52,807.55

Report of the Roentgenologist

THE NEW DEPARTMENT

FOR fourteen years, under a succession of directors, this department has suffered in quarters originally designed for an emergency ward. During this time the department has more than tripled its work, has risen from a surgical accessory to a field of diagnostic importance practically equal in Medicine and Surgery, and has changed its status from a liability to an asset. At the same time it emphasized more and more the inefficiency of the emergency ward arrangement and finally, in February and March of this year, reconstruction of the physical side of the department was undertaken and completed. The work was begun on February 11 following the completion of the addition to the administration building, and an almost complete rearrangement and rebuilding was finished on April 27. The plans used were drawn after a survey of many modern hospitals and the present arrangement is thought to be as efficient as possible under the existing circumstances and conditions peculiar to this hospital, such as the predominating number of bed patients and the unusual ratio of ward to Out-Door-Department patients. (See Table.)

With as accurate an estimate of future development as was possible by studying past records, an attempt was made to build for the future, and the present department is fully capable of handling 50 per cent more patients, which, at the present trend, will take six to

PETER BENT BRIGHAM HOSPITAL

eight years. In addition to a rebuilding and rearrangement of rooms, a large investment was made in up-to-date machines and accessories, so that we equal, at least, and possibly excel any similar department in Boston. Included in the new equipment is a "deep therapy" machine capable of generating 200,000 volts, used only for X-ray treatment, which has already proved to be of considerable value, particularly in certain of the brain tumors, largely as an accessory to surgical intervention.

This program of building necessitated expansion, and a satisfactory arrangement was decided upon, placing X-ray therapy and helio-therapy in a section separate from the diagnostic side—in the space formerly occupied by the nurses' diet kitchen, and including part of the ground floor of the new wing. This section was the last to be organized as these were the temporary quarters of the whole department during the dark and dusty days of reconstruction. There was but little if any interruption to the services rendered by the diagnostic section, even though the offices, interpreting, teaching, filing and clerical work were all done together in a hall, between interruptions by the laundry truck and the ice wagon; the architects and the sub-contractors; the students and the visitors; X-ray therapy alone had to be abandoned. By arrangement with the Collis P. Huntington Memorial Hospital, treatments were given in their department for five months, and this accounts for the decrease in such cases as shown by the table.

In furtherance of the idea of coordinating the work, room was obtained for the Urological Department by incorporating the night-ambulance driver's quarters next to our department. Two rooms were

REPORT OF THE ROENTGENOLOGIST

built and equipped with modern apparatus for cystoscopy and pyelography, which can now be done quickly and efficiently with the least possible inconvenience to the patient.

INCREASED OUTPUT

In spite of the handicaps noted above there was an increase in the number of patients radiographed or treated by X-ray from 9,200 in 1926 to 9,720 in 1927. Careful analysis of these figures has been made, but time and space do not permit the recording of more than the bare figures, at the end of this report, nor does the publication warrant graphs showing the relative increase in the number of patients as compared to the number admitted to the ward and the number of new patients seen in the Out-Door Department. It is readily seen, however, that this department handles more patients than there are new patients admitted to the Out-Door Department, and twice as many as are admitted to the wards during the year.

An increase in the amount of work done necessarily increases the expenses, and the latter leaped to unheard of figures this year, chiefly on account of the large number of replacements of machines and accessories, but there was again, as for the past seven years, a net income, which was turned over to the general fund of the hospital. (Under present arrangements "new" machines are paid for by the treasurer, not out of operating expenses. Had these been included there would have been a decided deficit.)

PERSONNEL

A new system is being tried for the House-Officers—a two-year service, with rank and salary the

PETER BENT BRIGHAM HOSPITAL

second year as Assistant Resident in Roentgenology. This gives the trainee a much more thorough foundation in his work; enables him to take advantage of an unofficial visiting arrangement with the Children's, Huntington and Massachusetts General X-ray Departments during two months of his second year, and makes him more valuable to this hospital and to the department. Both Dr. Fetner, senior at present, and Dr. Dyke, junior, are on this arrangement, and it is hoped that enough men of the required standing can be secured to make this arrangement permanent.

Dr. C. G. Dyke, a graduate of the University of Iowa, who came to us after an internship at the Chelsea Naval Hospital, was appointed to the position as House Officer in Roentgenology to fill the place left vacant by the resignation of Dr. Hudson. Miss Harriet E. Williams, R.N., was added to the staff and spends her full time in the X-ray therapy and heliotherapy section. She had a long previous training in similar work at the Massachusetts General Hospital. The assistant secretary, Miss Anna Weiner, resigned during the year and Miss Eleanor Hennessy was appointed in her place.

Following the rebuilding of the department, changes in the filing system were made and all plates and films over six years old were discarded, with the exception of unusual or interesting films which could be used in the teaching or museum collection. This rids the files of all glass plates and of all of the inflammable films (cellulose nitrate base), and removes any fire risk inherent in the storage of a large number of highly inflammable materials. Other minor changes calculated to increase the efficiency and availability of

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the records were instigated, but will not be discussed here.

TEACHING

As in previous years the resources of the department, rich in teaching material, have been used heavily in instruction of nurses, students and post-graduates. One course, an elective fourth-year course listed under Surgery, has been quite popular, the quota of two men being filled eleven months this year. A revision of the third year section work is being contemplated in order to make the instruction more harmonious, and it is hoped that the instruction in the special branches such as ours will be brought into closer harmony and better cooperation with the study of medicine as a whole.

In summary we may report a much needed reconstruction of our department; a complete modernization of equipment; an expansion physically; another successful year financially, and an entente cordiale as always.

PUBLICATIONS FROM THE DEPARTMENT

The Pineal Shadow as an Aid in the Localization of Brain Tumors, J. H. Vastine, M.D., and Kenneth K. Kinney, M.D., American Journal of Roentgenology and Radium Therapy, XVII, 320-324 (March), 1927.

Diabetic Tuberculosis, M. C. Sosman, M.D., and J. H. Steidl, American Journal of Roentgenology and Radium Therapy, XVII, 625-629 (June), 1927.

Radiology as an Aid in the Diagnosis of Skull and Intracranial Lesions, M. C. Sosman, M.D., Radiology, IX, 396-407 (November), 1927.

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TABULATION OF DATA, TEN CONSECUTIVE YEARS

YEAR	Ward Cases	O. D. D. Cases	Private	All Others	Totals	X-ray Treatments	Films Taken	Dental Films	Alpine Lamp Treatments
1918	1,692	1,537	48	129	3,406	27	6,994	702	....
1919	2,511	2,812	143	136	5,602	43	11,067	2,200	....
1920	2,919	2,896	409	140	6,364	609	7,180	942	....
1921	3,076	3,038	579	195	6,888	739	11,404	1,850	....
1922	3,200	3,207	698	191	7,296	629	13,696	2,457	....
1923	3,702	2,835	960	210	7,707	764	14,144	2,506	467
1924	3,860	3,283	1,031	200	8,374	916	15,408	3,530	1,097
1925	3,948	3,479	1,163	228	8,818	809	18,366	2,905	1,487
1926	4,299	3,420	1,269	214	9,202	618	21,575	2,928	765
1927	4,307	3,924	1,061	477	9,769	490	24,270	3,019	1,264

M. C. SOSMAN, M.D.,
Roentgenologist.

DECEMBER 31, 1927.

Report of the School of Nursing

THE year ends with the following staff of graduate and student nurses:

Superintendent of Nurses	1
Assistant Superintendent of Nurses	1
Instructors	1
Supervisors	4
Night Supervisors	2
Graduate Head Nurses and Assistants in Departments	17½
Graduate Nurse Anæsthetists	3
Foreign Graduate Student (Rockefeller)	1
Masseuse	1
Student Nurses	109
Preliminary Students	33
	<hr/>
	173½

Fifty-seven students entered during the year; thirty-one graduated; fifteen have withdrawn; and one died. Miss Constance M. Travers, a preliminary student, who had been but six weeks in the school, contracted pneumonia and died at the end of the third day.

The total number of sick days were 1,345, with a daily average enrollment of 138.6 students.

Nine hundred and two letters of inquiry were received.

In March the School of Nursing occupied its new offices in one of the new wings of the administration building. Only those who attempted to work in its old cramped quarters can appreciate the joy of the new

REPORT OF THE SCHOOL OF NURSING

ones. As the size of the school and the size of the Alumnae increase the work of our office increases accordingly. There is a vast amount of detail in an office which supervises the nursing care of all our patients, selects all graduates for positions, receives annually 900 letters of inquiry about the school, interviews approximately a hundred aspirants for nurse training, plans the curriculum, arranges the individual programs of 150 students, in an effort to give each a fair amount of every kind of service, which is called upon to supply all data with relation to both preliminary and professional education of our graduates when they make applications for state registration in this and other states and when under consideration for positions, which makes all arrangements for supplying special nurses, recording their time, pay, etc., numbering from twenty-five to forty-five daily as well as planning vacations for all graduates and students. We appreciate the facilities which these offices provide and especially do we appreciate our *two* telephones.

Building operations this year released space on the ground floor of Ward A, for use as a ward. An attractive semi-private ward has been made requiring a minimum of five additional nurses.

We have been experimenting there with a plan known as "group nursing." At the same time the Community Health Association of Boston has been experimenting with the "hourly nursing" plan in homes. Both of these efforts are in response to what seems a definite need for providing good nursing service at lower costs. It is disappointing to find how few have cared to avail themselves of these services. Group nursing has been in operation here since August 17 and is proving a definite financial loss. We

REPORT OF THE SCHOOL OF NURSING

had hoped that the plan would be so successful that we should very soon find it necessary to offer it on the floors of A-Main and A-Second.

Additional space in the Out-Door Department has also been finished and occupied. This department with its hundreds of patients is, to the student nurse, an alluring part of the hospital, presenting not only medical and nursing problems, but many social ones. It is rich in teaching material. It is now somewhat understaffed with nurses, but the way has not been made clear for assigning more.

Arranging for proper affiliations and making assignments for them is one of the most difficult problems of the training school office. A change has been made in the reception of students from the Children's Hospital. They now come for a period of six months instead of four. This should give to them more thorough training in adult work, and they should be of greater service to us. No new out-going affiliations have been made.

The results of affiliations are like a pebble thrown in a pool causing constantly widening circles. With each new one the size of the school must be increased to provide enough workers for this hospital while allowing for absences for affiliated work. These inter-relationships become more intricate each year and more expensive to the hospital. Problems such as these are frequently the basis for conflict in opinion concerning nurse preparation.

Groups of persons, some truly interested and others unduly critical discuss the questions of the nurse's training, her qualifications, both moral and educational, spiritual life, fields of work, hours, motives, attitude, and old age protection. Families find fault

with the amount of her pay and her unwillingness to lend a hand in domestic duties. Physicians complain that she will not nurse in homes, wants to select her cases and the places to which she will go, that she is over educated. One might grant that in some instances she is over trained, but scarcely over educated. Older nurses are sure that the rank and file of nurses are inadequately prepared and that proper care for the patient demands better educational preparation both preliminary and professional. Every one looks on the problem and expresses himself from the point of view of his own experience and need, and few from the angle of what should constitute sound nursing education. Only the nurses themselves know what they are called upon to do and the limitations of their knowledge.

The nurse is at present a storm center. It seems to me that nursing history reveals that she has always been a storm center; but because of it, nurses and nurse preparation are being studied as never before. This is a period when careful and statistical research is being made of her duties, her preparation, her pay with relation to living costs and old age protection, distribution of her services, preliminary education, etc. Fortunately those who study her the most become sympathetic with her needs and understanding of her problems.

A committee on Nurses and Nursing Education of the American Medical Association has reported this year through the columns of its Journal, covering about twenty-seven pages. The statistical tables with relation to nurses and training schools are the most exhaustive, inclusive and reliable which have yet been published. They reveal some astonishing facts, for

REPORT OF THE SCHOOL OF NURSING

example: that training schools are conducted in thirty-eight hospitals which for various reasons are considered unethical! I quote only two deductions from the report—first, “A study of the supply of nurses reveals no shortage for the country as a whole, an abundant supply for cities, and faults of distribution seriously affecting rural districts.” Second, “Investigation seems to show that the nursing problem is concerned not so much with supply and demand as with distribution and economics.” The report concludes with recommendations to the medical profession to encourage visiting and part-time nursing through stabilizing of nurse registries, endorsement of hourly nursing in homes, and group nursing in hospitals. It also recommends that the period of training be *twenty-eight* months, “the first four months to be devoted to concentrated study of fundamental sciences and the succeeding two years to be devoted as far as possible to teaching the art of nursing by demonstration, participation and practice.”

The American College of Surgeons in its tenth annual report on Hospital Standardization gives a couple of columns to nursing. It says, “While hospital service is composite in character it must be admitted that nursing plays a major part in caring for the patient.” “The nursing service of any institution bears a definite relation to the end results obtained in treatment.” To assure the hospital patient of the best nursing care the report then lays down seven suggestions as a practical basis for an efficient nursing service. These include three years of high school preparation as a minimum entrance requirement and that the course of training be not less than *three years*. When authorities disagree who shall decide?

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The committee on the grading of schools of nursing is well into the second year of its five-year program. It has completed and published studies of:

The Private Duty Nurse—her job.

The Public Health Nurse—her job.

The Institutional Nurse—her job.

in ten states. These findings are well worth careful study by nurses and others.

Nurses are also resorting to the statistical method of investigation. The National League of Nursing Education has now begun an intensive study of the duties, qualifications, and preparation of superintendents of nurses, assistants, night supervisors, instructors, supervisors, head nurses, and out-patient supervisors. Preliminary reports were made at the annual convention last June in San Francisco where almost the whole tenor of the meetings was one of scientific research. That organization has this year published a curriculum for schools of nursing which can be recommended as a guide, and as being sound in principle, and carefully thought out from cover to cover.

This School of Nursing has passed its fifteenth birthday.

If the number of applications received is indication of a successful school, ours surely fills that requirement, for we are having more than we can possibly accept. Since the middle of September we have been replying to all inquiries that enrollment in January, 1928, class is complete. The minimum entrance requirement of high school preparation is easily maintained, and was exceeded by the class entering in September of this year. Nearly one-third had from one to four or more years of college work. The nurses' home is filled to capacity.

REPORT OF THE SCHOOL OF NURSING

Some of the changes in the nursing staff are as follows: Marion F. Batchelder left to go to Johns Hopkins Hospital as operating room assistant, and was succeeded by Olive M. Parks, P. B. B. H., 1924, as instructor in operating room technic; Helen Goodwin became executive assistant on Dr. Howland's staff, and Helen Newhall, P. B. B. H. 1920, succeeded her as night supervisor; Nellie V. Porter left to become assistant superintendent of the Cambridge Hospital, and was succeeded by Grace M. Patch, P. B. B. H. 1923, and later by Evelean G. Pierce, P. B. B. H. 1922, as operating room supervisor; Lucy H. Beal and Alice A. Weston left to take up advanced studies at Teachers' College, Columbia University, the former was succeeded by Anne P. Washburn, Western Reserve University School of Nursing, 1926, as medical supervisor, and the latter by Rachel T. Adams, P. B. B. H. 1924, as supervisor of Out-Door Department. Ruth Sleeper left to accept a teaching position at Western Reserve University School of Nursing. Her place has not been filled, and teaching of the sciences has been carried on by hourly instructors. We were fortunate in securing Helene Lee, M. G. H., and Helen Redfern, M. G. H., and Jean Latimer for the teaching of psychology.

Mabel McVicker had leave of absence to pursue a summer course at Teachers' College, Columbia University.

Helen Blaisdell had leave of absence to teach in a summer course at Simmons College, Boston.

Burnice K. Edgar, Maine General Hospital, completed five months' experience under supervision in the administration of anesthetics.

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Masu Yumaki, St. Luke's International Hospital, Tokyo, Japan, a Rockefeller fellow, joined the school in September for a year of graduate work.

Graduation for the thirteenth class occurred December 1, with Mr. Richard S. Russell, one of the members of the corporation, presiding. The address of the evening was by Jane Louise Mesick, Dean of Simmons College, Boston.

The Dr. John P. Reynolds' gold medal was awarded to Elsa Eleanor Charlotte Storm.

The John P. Reynolds' scholarship was awarded to Elsie Lois Campbell of the class of 1928 with an average of 94.7 per cent.

(Signed) CARRIE M. HALL, R.N.,
*Superintendent of Nurses
and Principal School of Nursing.*

DECEMBER 31, 1927.

Report of the Social Service Department

IN this, the fourteenth annual report of the Social Service Department, it is a pleasure to note that there has been a steadily increasing growth in the number of patients referred to the department, over 1,400 were active the past year. This does not include the patients to whom the department gave such services as follow-up and steering to our various clinics for outside agencies. The chief lines of development have been in connection with the special clinics such as the Arthritic, Cardiac and Diabetic; and with visits to homes of patients on special diets by dietitians who come to Social Service Department for experience in home visiting.

This department has taken an active part in two important surveys in Boston: first, the Council survey of the chronic sick; second, a study of the interrelationship of hospital social work and public health nursing. In the survey of the chronic sick there was included a study made of the nursing homes in Boston. The Head Worker in this department served on the committee. The department sends many patients from this hospital to nursing homes when for one reason or another patients are unable to return to their own homes. Many patients are not able to go to so-called convalescent homes, as they need bed care possibly and more assistance than the latter are equipped to give. There has been an amazing growth of nursing homes in the community and unfortunately some of these are

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not suitable for the care of the sick. It is the hope of the committee appointed to study the situation, that these homes may be standardized and supervised.

As in previous years, students from the Simmons College School of Social Work were sent to this department for experience in actual medical social case-work problems.

If this Social Service Department is to keep its standards up to the reputation and prestige of the Peter Bent Brigham Hospital it is absolutely necessary to have more workers. Each worker is carrying a larger load every year and there is always a limit to what one can do well. Without more assistance the standards must necessarily be lowered. Funds for special study and investigation are much needed and it is earnestly hoped that some benefactor will provide us with such a research fund. Money so used may greatly improve the condition of some individual patient, and the knowledge gained in the study may be of great benefit to those staggering under the weight of not only sickness but poverty as well.

It would seem that a central filing system for records at this hospital would mean greater efficiency. So often the social worker has knowledge of the social conditions and environment of our patients, which, if the doctor knew, would give him the whole picture of the patient and help him in understanding better the patient's relation to his family and to the community. With the social and medical records together there would be a clearer interrelation of social pathology and physical disease. The doctors and hospitals would better understand factors which are not so apparent within the walls of the institution, while the social workers would learn to appreciate more the technical

REPORT OF THE SOCIAL SERVICE DEPARTMENT

problems of medical practice. It would result in a better constructive restoration of the patient to his family and to the community.

SOCIAL WORK IN THE DIABETIC CLINIC

During the year there has been a fuller development of the plan outlined in the 1926 report to meet more adequately the social aspects of the treatment of diabetes. Without the full cooperation of the diabetic patient, it is useless to prescribe treatment. Through the home service given our patients, an effort is made by the social worker to reach out into the home to remove those obstacles either in the patient's environment or his own mental attitude, that interfere with successful treatment. The student dietitian has been of great service to the diabetic patient in the home because of her especial fitness to help the patients in an understanding of the diets prescribed in the clinic. The patients have expressed great appreciation for this service. It gives them a feeling of a closer relationship with the hospital.

Assistance was given Dr. Fitz in a study of the complaints which bring diabetics to the hospital for examination and treatment. This work entailed the examination of the medical records of the 434 patients active in the clinic and a tabulation of the complaints where they were noted.

It has continued to be the policy of the social worker to take a complete social history on all patients when they come to the clinic for the first time. This information is later supplemented by the background afforded in a visit to the home. There were 122 new patients referred to the Diabetic Clinic. The average

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income of these families was \$28.52. The average number living on this amount was four.

A diabetic diet means a substitution of the cheap carbohydrates, on which many poor people depend, by the more expensive proteins and fats, therefore the possibilities of social complications at once become more evident. To this burden the insulin patient has in addition the expense of insulin, needles, hypodermic syringe and test tubes and Benedict solution. Because of the importance of removing all sources of possible infection many patients are referred to the dental clinics. A number of times in the past year the social worker has raised the money to pay for dentistry and artificial teeth. Sometimes as in the cases when the entire income is insufficient or when a family problem is found, it becomes necessary to call in the Family Welfare Society or a relief giving agency. Many times in the past year we have had the valuable services of the Community Health Nurse to follow-up in the home the instructions given the patient who is taught to take insulin for the first time in the Out-Door Department clinic. Thus we see that the problems of the diabetic are as varied as the problems of human distress and that those problems can only be met by the cooperation of the best that good medical and social work can give.

STATISTICS—DIABETIC CLINIC

Patients brought forward from January 1, 1927	307
New patients referred	122
Reinstated	5
Total membership during year	434
Closed during year	72
Present attendance January 1, 1928	362

REPORT OF THE SOCIAL SERVICE DEPARTMENT

Total number of visits to clinic	1,001
Average number at clinic	20
Largest number at any one time	34
Smallest number at any one time	10

SOCIAL WORK IN THE CARDIAC CLINIC

The cardiac clinic has shown a marked increase in clinic attendance during the past year; the total number of clinic visits being 822 for 1927 as against 640 for 1926. The total membership of the clinic has also increased from 291 in 1926 to 376 in 1927. This has brought up the average number of patients examined on each clinic day from 12+ in 1926 to 16 in 1927. The type of patients treated has been as in previous years, largely that of rheumatic heart disease; cases of chorea with or without heart involvement; post-rheumatic fever cases and a few patients with angina pectoris.

It is highly important that the social worker in this clinic know the actual living and working conditions of all the patients. It is not enough to know merely the type of industry in which the patient may be engaged but the actual process within the industry must be understood and discussed with the doctor with a view to its suitability for a particular patient.

With the patients' permission visits to employers are frequently made. Often when a patient's cardiac limitation has been carefully explained to him it has generally been found possible to make some adjustment within the industry whereby the patient may be given work more suitable for him and well within his heart capacity. Similarly in selecting training for work the individual patient's cardiac and nervous strength must be given thoughtful consideration.

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In like manner the school situation must be studied, such as the distance from home, hilly or level walk, amount of required stair climbing, participation in gymnasium exercises and many another school problem. In every instance where indicated letters are sent to school principals or calls are made at the schools to explain the patient's cardiac limitations and to make a proper adjustment to them.

In the case of our cardiac housewives and housekeepers we must know the extent of their manual labor. The question of eliminating the heaviest part of this burden must invariably be faced and steps taken for outside relief and assistance.

During the year the cardiac worker has attended a series of conferences with the Educational Secretary of the American Association of Hospital Social Workers and the various social workers in the Boston cardiac clinics in an attempt to make a comprehensive study of every angle of the social problem connected with a cardiac clinic and the adaption of a suitable terminology.

STATISTICS—CARDIAC CLINIC

Patients brought forward from January 1, 1927	236
New patients referred	128
Reinstated	12
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Total membership during year	376
Closed during year	103
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Present attendance January 1, 1928	273
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Total number of visits to clinic	822
Average number at clinic	16
Largest number at any one time	29
Smallest number at any one time	7

REPORT OF THE SOCIAL SERVICE DEPARTMENT

Of the 128 new cases referred (age division being made at 18 years) there were:

21 men, 48 women, 28 boys, 31 girls.	
Referred from Medical O. D. D.	84
Referred from House Medical	27
Referred from Outside (including The Children's Hospital)	17

LUETIC CLINIC

The treatment of patients in the luetic clinic is a complicated one because of the nature of the disease. There is always the question of intensive treatment in infectious cases and in the non-infectious patient the problem of getting the patient to come for treatment over a period of time without the certainty of being cured.

In the infectious cases the family and community must always be the first consideration. As much information is procured as possible regarding the hygiene and living conditions of the patient and the cooperation secured in having other members of the family examined and treated if necessary.

Besides an intensive system of follow-up which is carried on during the year other social problems often arise such as financial difficulties, the need of hospital and convalescent care and the transfer of patients to evening clinics.

Total number of patients for 1927	414
Men—255	Women—159
101 single	39 single
142 married	96 married
6 widowed	21 widowed
6 divorced	3 divorced
213 white	119 white
42 colored	40 colored
New patients during the year	159
Men—105	Women—54

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Number of patients now active	159
Total number of letters sent	775
First letters	71
Second letters	5
Third letters	60
Special Tuesday clinic letters	639
Reported to Board of Health:	
New patients	8
By name for having lapsed treatment	2
Number of visits made to the clinic during the year—	2,608
Total number of G. C. patients for 1927	185
Men—164	Women—21
102 single	6 single
57 married	14 married
1 divorced	1 divorced
4 widowed	0 widowed
147 white	18 white
17 colored	3 colored
Number of patients now active—	123
New patients during the year—	91
Total number of letters sent	221
Board of Health letter No. 1	41
Board of Health letter No. 2	37
Special G. C. letter	143
Reported to Board of Health:	
New patients	59
By name for having lapsed treatment	10

ARTHRITIC CLINIC

To one that has seen many hopeless cases of arthritis the work being done by Dr. Francis C. Hall in this clinic is most encouraging, so many patients have improved in their general health. Moreover, there is a universal desire to cooperate and a feeling of encouragement among them all. Dr. Hall feels fatigue plays a large part in this disease and consequently rest is

REPORT OF THE SOCIAL SERVICE DEPARTMENT

advised for most of the patients, also a special diet to supply the deficiencies of nutrition in the patient's former diet. Therefore, the social worker is a very necessary adjunct of the clinic. For example:

A young woman thirty-two years of age with a diagnosis of arthritis of the spine was in immediate need of the special medical treatment given at the Robert Brigham Hospital. As the patient did not live in Boston she could not be admitted as a free patient and her husband was so involved financially that he could not pay the hospital rates. It was arranged with the husband's employer to raise half the sum necessary and the other half was raised through interested friends. There were five small children and arrangement was made for the patient's sister to give up working part of the day and with the help of the oldest daughter, to care for them. The patient was discharged to Chickering House after an extended stay at the Robert Brigham Hospital, where she will remain until strong enough to resume her duties again.

Cases brought forward	116
New cases referred	35
	<hr/>
Total membership during year	151

SURGICAL SERVICE—GOITER CLINIC

The social problems encountered during the past year have been numerous and varied, as they always are, but the statistics showed that the doctors on the surgical services have referred more patients for convalescent care than for any one other reason. This is not surprising, but further study of the end results showed the interesting fact that when the worker had made her own investigation and her own social diagnosis, she had discovered situations which simply had to be remedied before the patient could be induced to accept convalescent care for herself, or be expected to reap the full benefit of what the surgeons had done for her. For instance, how could a woman recuperate satisfactorily away from her family when she knew a month's rent was almost due and her husband had

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just lost his job. He was unable to leave home and go in search of a new one because the aunt who was caring for the three small children had been taken to another hospital with acute appendicitis. More than one re-entry has been traced to a patient's returning home too soon to some such situation and overdoing.

Only when the cause of worry can be removed and suitable convalescent care be provided for the necessary length of time can the social worker feel that she has done her share in completing the cure begun by the hospital. So, she learns to search for sidelights on the situation and only too often finds that the physical condition which brought the patient to the hospital is but a small part of the whole story. One case comes to mind:

A man who was referred because he needed to be steered to some reputable place where he could buy an artificial limb. Mr. X was an intelligent Canadian of twenty-eight, with a wife and three small children, who had come to Boston where his brother found him work as a carpenter. He had just been advanced to \$55 a week, was paying on a life insurance of \$500, had joined the Carpenters' Union and taken out his "first papers." Just as he thought he was on the road to success he developed osteomyelitis of the left femur and amputation was necessary. The Union paid \$5 a week for seven weeks only, but he expected to receive \$100 when he withdrew, which would pay his rent. So, it was a terrible blow when he found that he could not have that money as his amputation was not due to an accident. Troubles cropped up everywhere, as the roomer left, one child had a mastoid and the brother who had paid all food bills, besides some extras, had such an expensive illness in his own family that he was obliged to cut down his gifts. The family had been here too short a time to ask City Aid without the fear of deportation, which every one felt would be a gross injustice to such a man. To tide this family over and restore it to economic independence, the aid of relatives, private individuals, clubs and agencies was enlisted and finally the State Rehabilitation Bureau which contributed half the cost of the artificial limb.

Instead of sitting down idly waiting for the new limb Mr. X cast about for ways of earning a little at home. He started by filing saws and did so well that he begged to be allowed to try a tiny shop. This was made possible and he worked up such a good trade that he is now supporting his family and paying off his debts, little by little.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

Brought forward from previous year	20
New patients referred	335
Reinstated	5
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Total number	360
Goiter Clinic	108

GENERAL MEDICAL

Splendid cooperation in the medical social problems was given the worker by the house officers in both the House and the Out-Door Department. This seems to be especially true in the latter. This is encouraging because it appears that by the time the medical house officers reach the Out-Door Department they become more accustomed to the social complications of disease and are acquainted with the services which may be expected from the social worker. It is also encouraging when we remember that the doctor in the Out-Patient Department does not have the pressure of the acute situations to lead him to turn to the social worker such as the desire to clear the ward of chronic cases or the problem of the patient whose worry over home situations baffles treatment. What we wish to work for now is a greater usefulness to the doctor by seeing that he has the benefit of the knowledge of the social complications of the cases known to the social worker. Only too often the social worker has social knowledge of cases which has taken much of her time to gather and put in record form which are placed in the social service files and of which only the original referring doctor knows. Would it not be of value to the doctor and more encouraging to the worker to know that a summary of these social conditions was attached to the medical record so that the doctor would

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have the whole picture of the patient before him and might see him more clearly in his relation to his family and community background.

In the House the social worker feels that there is a great field for real social casework which has as yet been untouched. There must be many patients with whom constructive and preventive work could be done who are never referred and who with the pressure of other work, the social worker does not find. The doctors are busy with their own particular problems and do not have the time to go into the social situation unless an acute problem arises. So many times a patient is referred who was not referred on a previous admission when preventive work could have been done or they are referred with the statement that the patient can go as soon as the social worker can make a plan. This delays the patient's sojourn on the ward and often results in a hasty social diagnosis which may not reach the root of the problem and which in the long run is expensive to the time of patient, social worker and hospital.

Patients brought forward	57
New cases referred	246
	<hr/>
Total number during year	303

OCCUPATIONAL THERAPY

During 1927 the work of the Occupational Therapy Department was carried on by one worker with the assistance of a volunteer three days a week from January 1 to June 1, 1927.

In September, with the cooperation of the resident physician, occupational therapy was put on a prescrip-

REPORT OF THE SOCIAL SERVICE DEPARTMENT

tion basis, on all the medical wards, which means that no patient is given work without a prescription from the Senior House Officer. It is hoped that in the near future, the same method will be established on all the surgical wards.

In December, Miss Anna P. Revere was granted a leave of absence, and her place was filled by Miss Gladys A. Willy, a graduate of the Boston School of Occupational Therapy.

Number of patients received Occupational Therapy	116
Number of patients on surgical wards	39
Number of patients on medical wards	77

There were 902 new patients referred to the Social Service Department last year. Four hundred and seventy-seven patients were brought forward from the previous year and 29 reinstated, making a total of 1,408.

New and reinstated patients were referred from:

	House	O. D. D.	Total
Medical Service	191	354	545
Surgical Service	168	123	291
Outside Agencies .....	..	..	95

STEERING AND FOLLOW-UP

Luetic Clinic follow-up service	414
G. C. Clinic follow-up service	185
Outside Agencies, steering and follow-up service	245
Visits to homes of patients	834
Follow-up letters and postal cards	3,300

There has been an increasing endeavor in this city to further the cooperation of helping agencies, as exemplified in the organization of the Boston

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Council of Social Agencies. It is both a stimulating and gratifying relationship and worth the consideration of our hospital staff. The interplay of outside agencies and the hospital increases the chances of a quicker and better constructive restoration of the patients. The outside agencies aid the doctors in helping with plans for the aftercare of our patients and our doctors help the agencies in making diagnoses and prognoses and giving treatment and in recommending further therapy. It is team play of the best kind. Its object is the well being and health of the community and in its larger aspects the State and country as well.

The convalescent homes have always been a great resource. This past year, 130 patients were sent to St. Luke's Convalescent Home, Chickering House, Jewish Convalescent Home and Farrington Memorial. Patients needing prolonged hospital care were sent to the Robert Breck Brigham Hospital and the House of the Good Samaritan. The Children's Friend Society and the Children's Mission have given splendid cooperation in the care of the boys and girls of the Cardiac Clinic. The Family Welfare Society and the Community Health nurses have been of invaluable aid. Many other agencies have given their services to whom we feel grateful, but have not space to mention.

The sum of \$2,315 was raised for special needs. For one patient needing among other things a wooden leg, \$129.50 was obtained from the following sources:

Intercolonial Club	\$25.00
B. I.	35.00
Father McCarthy	10.00
Neighbor	5.00
Rehabilitation Bureau	54.50

REPORT OF THE SOCIAL SERVICE DEPARTMENT

For several patients needing nursing care, convalescent care, dentistry and milk, \$300 was given by the Weber Charity Fund, Incorporated; Lend A Hand Society; Invalid Aid Society and a B. I.

For one patient badly crippled with arthritis the following sum was given by:

Mrs. Constance Bessey	\$1,000.00
Mrs. William Amory, 2nd }	235.00
Mrs. Charles P. Curtis }	

This money was paid to the Robert Brigham Hospital for special treatment as the patient could not be made free on account of living outside Boston. For another woman needing practically the same treatment \$500 was given by:

Mrs. George P. Hall
Mrs. Arthur Perry

This patient also lived outside of Boston.

To all those who through gifts and assistance have brought to our patients help and encouragement we are sincerely grateful. Also to the Permanent Charity Fund, Incorporated, for their financial aid. We wish again to express our appreciation for all the Social Service Committee has done in raising a large part of the budget and for the time and interest they have so generously given. The Committee had charge of the Christmas celebration on the wards of the hospital as usual. They also held the annual sale and luncheon at the hospital last November for the benefit of Social Service and Occupational Therapy.

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STAFF OF WORKERS

General Service

ALICE M. CHENEY, R.N.

Cardiac Clinic

THEKLA ANDREN

KATHARINE A. HOMANS (volunteer)

Surgical Service—Goiter Clinic

MINA M. BBOWN

Medical Service—Diabetic Clinic

ELLEN L. TAYLOR, A.B., M.S.

MRS. F. C. JILLSON (volunteer)

General Service—Luetic Clinic

Arthritic Clinic

KATHLEEN CAULFIELD (resigned June, 1927)

GERTRUDE ABERCROMBIE (began June, 1927)

ESTHER W. ATWILL (volunteer)

Occupational Therapy

ANNA P. REVERE (leave of absence December, 1927)

GLADYS A. WILLEY

ELIZABETH LANE (volunteer)

Clerical Staff

AGNES F. DAY

ADDIE COOLIDGE

APPOINTMENT OFFICE—OUT-DOOR DEPARTMENT

(Salaries paid by hospital and not included in Social Service Budget)

MARY A. SULLIVAN

CONSTANCE KELLER

ALICE M. CHENEY, R.N.,

Director Social Service.

Report of the Pathologist

THE figures for the department are as follows:

Autopsies, Medical service	100
Autopsies, Surgical service	47
Autopsies, done outside for Surgical Service	0
Autopsies, Neurological Service	34
Autopsies, done outside for Neurological Service	15
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Total number of autopsies recorded	196
General autopsies recorded	164
Neurological autopsies	49
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	213
Recorded autopsies	213
Cases counted twice	17
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Actual total	196
Reports on surgical specimens	1,154
Reports on neurological specimens	180
Reports on bacteriological specimens	1,363
Guinea-pig inoculations for suspected tuberculosis	124
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Total	2,821

There were 309 deaths in the hospital, of which, 174 were medical and 91 were surgical, and 44 were neurological. Eighteen deaths, 16 surgical and 2 medical were investigated by the Medical Examiner.

The percentage of autopsies for the year after deducting the eighteen cases taken over by the Medical Examiner proves to be 63.4 per cent. The percentage

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of autopsies for the various services after making corrections for autopsies twice entered is:

Medical, 57.5 per cent; Surgical, 51.6 per cent; Neurological, 77.2 per cent.

The number and percentage of autopsies for all years are:

Year	No.	Per cent
1927.....	196.....	63.4
1926.....	179.....	62.0
1925.....	204.....	70.7
1924.....	177.....	70.0
1923.....	153.....	58.0
1922.....	174.....	68.0
1921.....	158.....	62.8
1920.....	155.....	58.2
1919.....	102.....	40.0
1918.....	145.....	40.0
1917.....	114.....	55.6
1916.....	113.....	49.5
1915.....	101.....	47.6
1913 and 1914.....	147.....	58.5

The number of surgical and bacteriological examinations made each year are:

Year	No.
1927.....	2,821
1926.....	3,101
1925.....	2,613
1924.....	2,819
1923.....	2,708
1922.....	2,391
1921.....	1,984
1920.....	1,826
1919.....	1,628
1918.....	2,224
1917.....	1,248
1916.....	1,140
1915.....	1,030
1914.....	847

REPORT OF THE PATHOLOGIST

The year has passed without noteworthy events, either of untoward nature or in amelioration of conditions commented upon in previous reports, those for the years 1924 and 1926 in particular. The reiteration of statements having the nature of complaints is no pleasant function of a head of a department and provides no pleasing reading matter for the trustees. However, it does seem advisable to ask again for a consideration of the problems of finding more space for the department and providing more technical service. The latter is probably a question of expense and this assumption warrants recalling the brief discussion in the report of the Pathologist for the year 1924, dealing with the matter of service for private patients. On the hospital books there are only debit sheets concerning its Pathological Department. In order that there should be a credit sheet I would advocate the charging of fees for pathological examinations made for private patients as is done in most hospitals for the purpose of augmenting the income of the pathologist. I have reason to believe that this practice will meet the approval of the medical and surgical staffs. The size of the fee should be governed by the kind of service rendered, whether of a routine or of a consultant nature. The income from this source, contrary to the practice of most other hospitals, should not go to any individual but should be credited to the department and expended under the direction of the Pathologist for the welfare of the laboratory—for reference books, extra technical service, and on occasions to augment the salaries of resident staff and proved desirable technicians and secretaries.

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A pleasanter duty is to record the conviction that the Pathological Department runs with a minimum of friction internally or externally in relation with the Executive and Clinical Departments. This happy state of affairs is due to the compact organization of the hospital as a whole, the spirit engendered by the high ideals of administrative and clinical departments and the fact that the hospital attracts the best type of men for interne and resident positions, including those in the Pathological Department.

At no time during my incumbency have the residents and internes in pathology failed to show keen interest and devotion. The study of pathology is an absorbing occupation. The volume and interesting nature of the routine material together with the stimulating and congenial spirit prevailing at the hospital makes the positions of Pathologist and his staff highly desirable and easily bearable under conditions far less favorable than at present. Yet improvement is desirable and easily achievable. The general standards of a hospital may be most easily appraised by the standards and efficiency found in the Pathological Department whose welfare is an obligation to be shared by Administrative and Clinical officers.

Changes in the Pathological Staff in the last year are as follows:

Dr. Granville A. Bennett succeeded Dr. Henry Pinkerton as Resident Pathologist, September 1, 1927. Dr. Reuben Z. Schulz succeeded Dr. Stuart F. Mac-Millan, July 1, 1927. Dr. Richard Meagher succeeded Dr. Sidney Farber, September 1, 1927, and Dr. Thomas D. Spies succeeded Dr. Meagher in the positions of Pathological House officers.

REPORT OF THE PATHOLOGIST

Dr. Farber resigned September 1, as Pathological House Officer to become Resident Pathologist at the Children's and Infants' Hospital, Boston.

PUBLICATIONS

The following articles have been published or completed during the past year:

- WOLBACH, S. BURT. Typhus Fever. Textbook of Medicine, Cecil, W. B. Saunders Co., 1927.
- Rocky Mountain Spotted Fever. W. B. Saunders Co., 1927. Ibid.
- The Transformation of a Malignant Paravertebral Sympathicoblastoma into a Benign Ganglioneuroma, with Dr. Cushing, Am. Jour. Path. vol. iii, p. 203.
- Centrioles and the Histogenesis of the Myofibril in Tumors of Striated-muscle Origin. Anat. Record, vol. xxxvii, p. 255.
- Osteochondritis Dissecans, with Dr. N. S. Allison. Archiv. of Surg., vol. xvi, p. 1176.
- Vitamin A Deficiency in the Guinea Pig, with Dr. Percy R. Howe, Archiv. of Pathology, vol. v, No. 2.
- The Over Wintering in Massachusetts of *Ixodiphagus caucurtei*, an Entomophagous Hymenopterous Insect. An experiment in Tick control, with Dr. F. Larrousse and Arthur G. King, Science, March 30, 1928.
- A Malignant Rhabdomyoma of Skeletal Muscle, Archives of Pathology, vol. v, p. 775.
- CONNOR, CHARLES L. Diffuse Tumors of the Leptomeninges, with Dr. Cushing. Archives of Pathology, vol. iii, p. 374.
- Toxic Cirrhosis of the Liver. Canadian Medical Association Journal, xvii, p. 546.
- PINKERTON, HENRY. Oils and Fats, Their Entrance into and Fate in the Lungs of Infants and Children: a Clinical and Pathologic Report. Am. Jour. of Diseases of Children, vol. xxxiii, pp. 259-285.
- The Reaction to Oils and Fats in the Lung. Archives of Pathology, vol. v, No. 3.

S. B. WOLBACH.

Report of the Surgeon-in-Chief

WE have sent out invitations to the family for a fifteenth birthday celebration. This makes us realize that Peter has reached the awkward stage of adolescence and ere long may have to be put in long clothes. Cousin Robert on the Hill is already being groomed for some such transformation and as it will require an expenditure of money, the community is being politely urged to contribute. Some day we shall perhaps be obliged to follow this lead. But so far, though Peter has acquired expensive habits for his age, he doesn't much care about his appearance and his foster parents have contented themselves by sewing on a patch or two in spots where he has begun to show through.

In one of these reports some years ago, the question was discussed of how large a hospital should be to be really effective under such an organization as we have adopted. With some naivete it was decided that Peter was just the right size for domestic peace and comfort. But he insists on growing, requires an ever-increasing number of attendants, wants more elbow room and in place of his former toys demands complicated forms of apparatus to play with. All told, in the development of his individuality, he is becoming so different a person from what was expected that Heaven only knows what in the next fifteen years may happen to him. We can only hope for the best and go about our separate businesses thankful enough for a fairly normal development up to this point; for some

REPORT OF THE SURGEON-IN-CHIEF

hospitals start out with unmistakable evidences of gigantism; some later on acquire an acromegalic unwieldiness; and some, which is still worse, give early signs of progeric senility. Hospitals from an endocrinological standpoint might be a subject worth elaborating.

During the past year a handicap under which Peter has long suffered has been temporarily overcome by an enlargement of quarters for those of his attendants who give him their entire time; and while this patch was being applied it was made generous enough to cover an obviously bulging area of his anatomy where his accumulating roentgenological apparatus has been uncomfortably pocketed.

Coincident with the enlargement of our quarters for house officers, the Medical School dormitory has been opened, and those who are to look forward to the long and arduous preparation for a course in medicine, which the times demand, can at least expect to do so under better living conditions than heretofore. That college undergraduates should be provided with a separate study and bed room; that the picked men from among them who enter a professional school should here and elsewhere have been obliged to put up with boarding-house accommodations; and that the cream of these men on getting their hospital appointment should have been expected, in a hospital built only fifteen years ago, to live in cubicles has always seemed an incomprehensible anticlimax. It speaks well for the hospital in other respects that our house officers in past years have accepted their inadequate quarters so uncomplainingly.

The change has made it possible to enlarge both the medical and surgical staffs and to ease in some slight

respects the pressure of work, for it has been practically impossible in the past for the house officers and their seniors on the residential staff to find sufficient time for proper recreation, much less for any investigative work or for composition. Too often men who have entered upon their hospital service after a period in a laboratory with the expectation that they would find time to write up the results of their researches have found it physically impossible to do so, much less effectively to take up some new subject for thorough study.

Dr. Bird, the Resident Surgeon, has rearranged the schedule so that the pairs of house officers shift in their duties every three instead of every four months as was formerly the custom. This will give each house officer in the future a month's vacation out of his sixteen months' period of service and three months of freedom from ward duty to permit him to concentrate, whether in laboratory or record room, on some piece of work in which he may have become interested. A house officer's training, in short, is not properly rounded out unless it includes practice in speaking before a medical audience and some experience with the composition of a clinical paper. It might not be at all a bad arrangement if the service were lengthened for three months with the understanding that the last period should be given over to the preparation of a thesis.

As things now stand, there is a tendency in the hierarchy of our staff for each one to shove off on the man of lower grade the chores from which he would fain escape, so that he may have more freedom to attack the problems that lie outside the daily routine. In this process the junior house officers have only the student

REPORT OF THE SURGEON-IN-CHIEF

clinical clerks to lean upon. So it happens in a family of brothers that the youngest usually has to cut the grass, sweep the sidewalks and water the flower beds for a longer time than his seniors apparently did. At least so it once seemed to a victim of this formula.

In all this, the Surgeon-in-Chief, taking advantage of his position, makes himself undoubtedly the worst offender. And though there are some tasks, like the writing of an annual hospital report, that unfortunately cannot well be delegated, it is easy for him to ask the man or men next down the line to cover some of the countless dozens of things that turn up to be done unexpectedly each day so that he may selfishly steal time for his particular personal problems.

Just what these problems are, or appear to be, perhaps should be explained if for no other reason than to account for the seeming anomaly of specialization within a general surgical clinic. The character of a service and the majority of papers which emanate from it come inevitably to be colored by the primary interests of the departmental chief. These interests happen to lie in the domain of neurological surgery and though the number of beds taken up for this purpose represents only a fraction of the whole clinic, the work is comparatively new, is expanding rapidly in unforeseen directions, and the opportunity of making contributions to knowledge from it is not to be lost. Were it proper to do so, we doubtless could quickly fill all the beds in the surgical wards with neurological cases and turn the whole establishment into a special hospital for their care. With full appreciation of the undesirability of any such tendency and to keep the work within reasonable bounds, the neurological material has of late been largely restricted to the accept-

ance to the wards of patients under the suspicion of having brain tumor.

On this special material possibly an undue proportion of members of the surgical staff have been at work for the past several years, the expenses pertaining thereto having been generously provided for by the Philip H. Gray Fund established in memory of a victim of the malady in question. In the effort to advance knowledge of such a subject there are four paths that may be followed: one lies in the direction of improving our clinical diagnoses; a second in the direction of more perfect operative technique; a third in the direction of furthering our understanding of the morbid anatomy of the lesions; and the fourth in the utilization of the cases for the study of disturbed function. These paths occasionally run parallel, more often cross and recross, and as they have not been much traveled we may sometimes find ourselves on one, sometimes on another, not always being sure that we are making progress in a forward direction.

In dealing with such a difficult clinical problem as may be presented by a patient with an unquestioned or presumptive brain tumor, the neurosurgeon has a definite goal in mind. This goal is to recognize if possible before operating not only where the lesion is to be found but what its nature will be; for under these circumstances there is a greater probability of removing the lesion with the greatest safety to life and the least possible damage to the surrounding tissues. It is quite impossible for a surgeon to attain this objective by restricting his activities to the operative procedures alone; he must make his own preliminary clinical diagnoses and make his own subsequent pathological studies of the tissues removed if the prob-

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lem is to be actively and accurately forwarded. Incidentally he will be the better and more successful operator if he assumes this triple responsibility.

In short, the better clinician and the better pathologist he may be, the better surgeon. Surgical pathology which flourished in the days of Sir James Paget has since, with the long skirt, gone increasingly out of fashion. And though there are notable exceptions, surgeons are not likely to be eligible today to membership in societies of pathologists. An interest in disordered function has come to supersede an interest in disordered structure. This is perhaps no less true of the physician than surgeon.

For a long time the possibilities of operative technique exceeded our knowledge of the nature of many of the lesions with which we are dealing, and for the past three or four years, thanks largely to Dr. Bailey's skill as a neuropathologist, we have concentrated our attention on a classification of brain tumors, more particularly of the gliomas. Some of them have been found to be surprisingly benign lesions and some of the more malignant types have proved to be susceptible to the effects of radiation. And in mentioning this fact we wish to express our appreciation of the whole-hearted co-operation that Dr. Sosman and the members of his department have shown in their time-consuming treatment of these patients.

And now that we have attained a more secure footing in regard to the pathology of these lesions, a new principle in technique in most timely fashion has been introduced which enables us to attack many hitherto inaccessible tumors with far greater effectiveness than heretofore so that an immediate further development of surgical technique lies before us that will

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serve quite to transform the character of the operative procedures. For this we are largely indebted primarily to the genius of Dr. W. T. Bovie in perfecting an electro-surgical apparatus which promises in many ways to replace the scalpel in intracranial procedures. For the past year, until through the kindness of Mr. G. H. Liebel of the Liebel-Flarsheim Company of Cincinnati we have secured an apparatus of our own, we have been obliged to borrow almost daily from our neighbors of the Huntington Hospital the machine which Dr. Bovie had perfected for their special use.

Acknowledgment may here be made of the ungrudging courtesy shown by the officials at the Huntington Hospital and by Miss Gibson and Miss Conover in particular, in loaning to us day after day a heavy apparatus on which they themselves so greatly depend in their own work and which might easily enough have been damaged in transport. It's been a good deal like asking one's neighbor for the daily loan of a grand piano so the children could have their music lessons at home. But it is merely an example of the friendliness and co-operation that exists between the many titularly separate institutions in our immediate group which radiate from the Medical School and whose smoke goes up the same chimney. Dr. Benedict of the Carnegie Nutrition Laboratory is ever ready generously to put time at our disposal; and between ourselves and the Huntington and Children's Hospitals not only are there such close ties that we have Roentgenological and Pathological Departments practically in common but such informal relationships exist between the members of the clinical staffs that without official appointments most of us feel about as much at home under one roof as another.

REPORT OF THE SURGEON-IN-CHIEF

In the foregoing paragraphs, over much has been said, for reasons not far to seek, about the neuro-surgical portion of the service. As much might be said concerning other forms of special work which inevitably must come to be developed if the hospital is to become fully rounded out. The urological work is well and skillfully covered by Dr. Quinby and his associates and had they equal opportunities and a special budget, their particular field, though one which has been more fully worked over, would develop no less rapidly.

Dr. Lyman G. Richards, though his services are in great demand at other hospitals, has faithfully conducted his work with us as an Associate in Otolaryngology. The difficulties to be met in re-organizing a budding department which wilted when Dr. Clifford B. Walker resigned ten years ago are considerable, but with time and patience the department should grow to be as effective as any other.

And if, as I fully believe, it will be to the advantage of the Harvard Medical School some day to establish separate clinical schools in the three major hospitals, we shall have need to cover the varied surgical specialties such as ophthalmology, dermatology, otology and laryngology which have been so long separated from surgery that the general surgeon as a rule has had but little experience with them. When funds are available and promising candidates are in sight, these are the directions in which the surgical department should expand.

PUBLICATIONS FOR THE YEAR 1927

The sort of intensive study of a given subject in all its aspects, as has been spoken of above, makes for

productive work, but it is one which calls for great labor. In commenting on the publications for 1926, reference was made to a small volume on the classification of the gliomas which was the product of a three years' labor. One reason for the delay in the publication of this annual report has been that Dr. Bailey and the writer have been engaged in completing another monograph and a conservative estimate of the time required for its preparation would be three years of preliminary study of the material and seven months given over to a thorough review of the literature, to the assembling of illustrations, and to the time-consuming process of composition.

The annual lists of papers emanating from the clinic are restricted by custom to those which have been actually printed. They consequently give no idea of work in progress which, from what has just been said, may overlap many a twelve-month. Mention may accordingly be made of the fact that Dr. Homans has long been engaged in the arduous task of preparing a textbook of general surgery for third-year students which is nearing completion. Its purpose is to put a readable volume in the students' hands which may be comparable in a way to the more successful textbooks of medicine. There has been a great need for such a volume, the more so of late since the hours given over to didactic teaching in surgery have been greatly curtailed by a curriculum which becomes increasingly overcrowded with subjects.

But not only does a list of this kind fail to show work in progress, it often fails to show work long completed the publication of which may be delayed by the fact that many of the special journals are so overcrowded that sometimes a twelve-month may lapse be-

REPORT OF THE SURGEON-IN-CHIEF

fore an accepted manuscript actually appears in print.

It has always been a source of great disappointment to the writer that when the opportunity was offered some years ago the Medical School authorities did not see their way clear to take over, as its official organ of publication, the Boston Medical and Surgical Journal which started its century-old career under the ægis of the founders of the School. Some such ready medium of publication for the more ephemeral papers that come out of any clinic is greatly needed as an encouragement to the junior members of the staff to try their literary wings.

BAILEY, PERCIVAL. Some remarks concerning the platinum chloride method of W. Ford Robertson for the "Mesoglia." *Arch. Neurol. and Psychiat.*, March, 1927, xvii, 420-422.

— The syndrome of mental automatism and its rôle in the formation of the chronic systematized psychoses: a review. *J. Nerv. and Ment. Dis.*, April, 1927, lxxv, 345-359.

— Further remarks concerning tumors of the glioma group. *Bull. Johns Hopkins Hosp.*, June, 1927, xl, 354-389.

— Sobre el diagnóstico de los tumores intracraneales. *Rev. méd. de Barcelona*, November, 1927, viii, 506-521.

— Histologic atlas of gliomas. *Arch. Path. and Lab. Med.*, December, 1927, iv, 871-921.

BAILEY, PERCIVAL and SCHALTENBRAND, GEORG. Die muköse Degeneration der Oligodendroglia. *Deutsche Ztschr. f. Nervenhe.*, 1927, xcvi, 231-237.

BIRD, CLARENCE E. Sarcoma complicating Paget's disease of the bone. Report of nine cases, five with pathologic verification. *Arch. Surg.*, June, 1927, xiv, 1187-1208.

— Fracture of the xiphoid process causing clonic spasm of the diaphragm. *J. Am. M. Ass.*, July 9, 1927, lxxxix, 101-102.

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- COLBY, FLETCHER H. Exstrophy of the bladder. Boston M. and S. J., June 23, 1927, cxcvi, 1033-1036.
- CONNOR, CHARLES L. and CUSHING, HARVEY. Diffuse tumors of the leptomeninges. Two cases in which the process was revealed only by the microscope. Arch. Path. and Lab. Med., March, 1927, iii, 374-392.
- CUSHING, HARVEY. The intracranial tumors of preadolescence. Am. J. Dis. Child., April, 1927, xxxiii, 551-584.
- Experiences with orbito-ethmoidal osteomata having intracranial complications. Presidential Address, American Surgical Association. Surg., Gynec. and Obst., June, 1927, xlv, 721-742.
- The meningiomas arising from the olfactory groove and their removal by the aid of electro-surgery. Macewen Memorial Lecture, University of Glasgow. Jackson, Wylie & Co., Publishers to the University, 1927, 53 pp. Also, in part: Lancet (Lond.) June 25, 1927, 1329-39.
- Acromegaly from a surgical standpoint. The annual oration before the Medical Society of London. Brit. M. J., July 2 and 9, 1927, 1-9, 48-55.
- Emancipators. An address at the Lister Centenary, University of Edinburgh. Lancet (Lond.), July 23, 1927, 185-6. Also: Boston M. and S. J., October 20, 1927, cxcvii, 651-2.
- CUSHING, HARVEY and DAVIDOFF, LEO M. The pathological findings in four autopsied cases of acromegaly with a discussion of their significance. Monogr. Rockefeller Inst. M. Research, No. 22, April 23, 1927, 131 pp.
- Studies in acromegaly. IV. The basal metabolism. Arch. Int. Med., May, 1927, xxxix, 673-697.
- CUSHING, HARVEY and WOLBACH, S. BURT. The transformation of a malignant paravertebral sympathicoblastoma into a benign ganglioneuroma. Am. J. Path., May, 1927, iii, 203-216.
- DAVIDOFF, LEO M. and CUSHING, HARVEY. Studies in acromegaly. VI. The disturbances of carbohydrate metabolism. Arch. Int. Med., June, 1927, xxxix, 751-779.

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- FRIED, B. M. Some clinical aspects of primary carcinoma of the pancreas. Boston M. and S. J., April 21, 1927, cxcvi, 640-644.
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THE STAFF AND ITS PERSONNEL. In recognition of their long and valued service to the hospital, Dr.

REPORT OF THE SURGEON-IN-CHIEF

Gilbert Horrax and Dr. Francis Newton have just been given the newly made title of Senior Associates in Surgery to the hospital. Dr. Horrax has not only acted of late years as Secretary of the Surgical Department, but, as the Surgeon-in-Chief's principal understudy, has shouldered much of the responsibility of operating room management of the neurosurgical patients. Dr. Francis Newton since his return from a year of study abroad has been an active and successful teacher in operative surgery and has relieved Drs. Cheever and Homans of their supervision of the general surgical work during the summer months.

On the residential staff, Dr. Clare E. Bird continues to hold the senior position for a second year. Of the Assistant Residents, Dr. Lester R. Whitaker left in July to go to the University of Rochester School of Medicine on a National Research Council Fellowship. He was succeeded by Dr. Ashley W. Oughterson, a graduate of the Harvard Medical School in 1924 who since then has had his house officership at the New York Hospital and served as Resident Surgeon on the first service (Columbia Division) at the Bellevue Hospital. Dr. John H. Powers in September became Arthur Tracy Cabot Fellow in charge of the Laboratory of Surgical Research in succession to Dr. A. J. McLean who in turn followed Mr. Hugh W. B. Cairns as Assistant Resident in the neurosurgical division. Mr. Cairns has returned to England to engage in neurological surgery in the London Hospital where he had already been appointed as one of the Junior Visiting Surgeons. In September also Dr. Franc D. Ingraham after a year with Dr. Dean Lewis in the Hunterian Laboratory at the Johns Hopkins Medical School returned to us to fill the second assistant residential position on the general service.

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On Dr. Quinby's special urological service, there have been new appointments. Dr. Bancroft Wheeler who had been acting for a time as a voluntary assistant after the expiration of his house-officer service at the Massachusetts General Hospital, succeeded Dr. B. J. Scholefield in July as Assistant Resident. At the same time Dr. Vincent D. Vermooten was appointed to a second position on this same service. Dr. Vermooten is a South African who after receiving his M.D. at the Johns Hopkins Medical School in 1923, served as a house officer in the Johns Hopkins Hospital, and subsequently as an Assistant Resident Surgeon in the New Haven Hospital.

Dr. Scholefield who had been in this country for a couple of years on a Commonwealth Fund fellowship has returned to England to engage in urological work at Guy's Hospital. He is, therefore, the second representative of Guy's Hospital who has formed contact with the Brigham Hospital, Dr. C. P. Symonds who was here in 1920 having preceded him. Our ties with many other hospitals in the United Kingdom are equally strong through Mr. George Gask, Sir D'Arcy Power and Mr. J. Paterson Ross of St. Bartholomew's, through Sir Harold Stiles and Mr. Norman Dott of the Royal Infirmary and Children's Hospital in Edinburgh, through Sir Cuthbert Wallace of St. Thomas' Hospital, and through Mr. Cairns as a representative of the London Hospital.

In addition to the regular appointees on the staff, there have been during the year several voluntary assistants. Dr. Ignace Oljenick of the University of Amsterdam, sent here at the request of Professor Brouwer to gain experience in neurological surgery, has proved since his arrival in March of 1927 to be not only a well-trained neurologist but a most accom-

plished assistant. The same may be said of Dr. Dumitri Bagdasar of the University of Bucharest who was similarly induced to come here at the suggestion of Professor Paulesco. Dr. Georg Schaltenbrand of the Hamburg-Eppendorf Hospital completed his year with us in March and returned to Hamburg carrying the respect of all with whom he had come in contact not only because of his unusual abilities and gifts as an investigator but because of his personal qualities. He unquestionably has a great future before him in his chosen field of neurology.

Other voluntary assistants in the neurological laboratory where they they have been at work in collaboration with Dr. Bailey have been: Dr. Cyril B. Courville, Instructor in Neuroanatomy and Neuropathology in the College of Los Angeles, who was introduced by Dr. Carl Rand, a former Assistant Resident; Dr. W. P. Van Wagenen, a former house officer and Assistant Resident who is preparing himself for a position in neurosurgery in the Rochester University School of Medicine; Mr. Frederick Kredel of the Johns Hopkins Medical School in association with whom during the past summer we have made initial attempts at the artificial cultivation of brain tumors in an effort to throw some additional light on their nature; and also Dr. Lawrence S. Kubie of the Rockefeller Institute who was here at the same time with Mr. Kredel and through whom we have entered upon a long neglected study of the cytological elements of these tumors studied on smears of the first tissue. Dr. Louise Eisenhardt, meanwhile, who has just been advanced to the position of Junior Associate, has continued with her detailed collation of the records of the brain tumor cases and is engaged in a special study of the meningiomas.

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Dr. John F. Fulton, formerly a Rhodes Scholar and pupil of Prof. C. S. Sherrington, who graduated from the Medical School here last June with high honors and whose interests lie in the physiology of the nervous system, attached himself in July, 1927, to the clinic as a voluntary assistant and proved of such inestimable value to the service that he was soon also made a Junior Associate.

The surgical house officers whose terms expired during 1927 have scattered as follows: Dr. Daniel R. Higbee has gone into general practice in Denver, Colorado. Dr. John I. Bradley after an experience in orthopedics at the Peabody Home has gone to San Francisco to engage in roentgenological work. Dr. Lynn Fort received an appointment as Assistant Resident Surgeon in the Strong Memorial Hospital, Rochester. To our great chagrin Dr. Theodore R. Dayton, one of our most promising and well-trained men who had passed a year with Professor Erdheim in the pathological laboratory in Vienna just before coming to us, soon after the conclusion of his service showed slight evidences of pulmonary trouble which have taken him temporarily to Saranac. Dr. Joseph S. Barr has decided to take up orthopedics and at present is on duty at the New England Peabody Home for Crippled Children. Dr. W. J. German holds a Fellowship in Surgery at the Johns Hopkins Medical School.

SURGEON-IN-CHIEF PRO TEMPORE. This position was filled from April 25 to May 9, 1927, by Dr. Emmet Rixford of San Francisco, Professor of Surgery in the Leland Stanford Medical School, and the present President of the American Surgical Association. His visit and enrollment in our family was the more appropriate in view of the fact that his junior col-

league at Stanford, Dr. Holman, is one of our former Resident Surgeons. Dr. Rixford's wide experience in acute traumatic surgery, which is not one of the strong points of the Brigham Hospital service, proved of the greatest value. A master of the subject, his clinics and demonstrations were followed with the greatest possible interest. Dr. Rixford's visit has left a vivid impression of a cultured gentleman with interests which are not restricted to his immediate profession; and it is to be hoped that the California roses of his own raising with which he has since stocked our various gardens will endure the East winds of our rigorous climate and be here to greet him when he comes again.

SURGICAL TABULATIONS. The subjoined table indicates that for four years we have reached an apparent plateau with an average of approximately 2,500 surgical patients *per annum*. This, with a 16 day average sojourn for each patient, is about our limit if past calculations can be relied upon. A year ago my medical colleague included for the first time in his report a tabulation of medical cases for the several years since the hospital was opened. A difference in point of view between the two services is immediately brought out by the fact that the number of medical cases is based on the patients *admitted* whereas the surgical estimates are based on the number *discharged*. The physician makes no attempt to register his therapeutic failures and there may possibly be no way to record them; the surgeon's failures are shown by his mortality figures, any patient dying in the hospital from whatever cause after operation being recorded as a post-operative fatality. These figures can only be calculated from the number of patients discharged.

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YEAR	Total Discharges	Deaths	General mortality %	Diagnoses	Excess % of Diagnoses	Patients operated upon	Case % operated upon	Operations recorded	Post-operative deaths	Case mortality %	Operative mortality %
1913	690	35	5.00	690	0	477	69.1	693	29	6.0	4.2
1914	1474	83	5.63	1474	0	992	67.3	1361	61	6.1	4.5
1915	1869	89	4.76	2366	26.5	1328	71.2	1526	72	5.4	4.7
1916	2014	93	4.61	2348	16.5	1422	70.6	1632	68	4.8	4.1
1917	2021	74	3.66	2533	25.3	1457	72.0	1639	54	3.7	3.2
1918	1856	71	3.82	2315	24.7	1304	70.2	1474	61	4.7	4.1
1919	2123	102	4.80	2659	25.2	1411	66.4	1563	79	5.6	5.1
1920	2090	91	4.35	2604	24.5	1399	66.8	1602	69	4.9	4.3
1921	2195	107	4.87	2640	20.2	1405	64.0	1591	86	6.1	5.3
1922	2274	110	4.83	2692	18.3	1517	67.1	1552	71	4.7	4.5
1923	2397	135	5.62	3084	28.2	1646	68.6	1713	81	4.9	4.7
1924	2508	144	5.74	3462	38.0	1783	71.1	1843	75	4.2	4.1
1925	2578	134	5.19	3629	40.7	1667	64.6	1762	72	4.3	4.1
1926	2415	143	5.92	3565	32.2	1663	68.8	1789	87	5.2	4.8
1927	2474	135	5.95	3715	31.5	1735	69.9	1858	79	4.5	4.3

In his last year's report Dr. Christian has spoken in favor of a more thorough study of medical patients in the Out-Door Department before their admission to the wards for treatment, with a hint that we could increase our efficiency by Mayoizing the clinic through the medium of a single diagnostic service for all departments. Should this suggestion be carried out, I apprehend that the hospital would become, as most hospitals tend to be, increasingly surgical since there is a greater urgency for the hospitalization of surgical than medical cases. In view of the fact that the medical wards are thinly populated by patients during the summer months it might even now be wise to utilize these empty beds for surgical patients. I am given to understand that 10 per cent of the medical admissions are represented by transient over-night patients admitted for salvarsan administration which, all said and done, is a minor surgical procedure.

REPORT OF THE SURGEON-IN-CHIEF

If one may read the times aright, there is a growing tendency for physicians, as in the case of Professor Jacobaeus in Stockholm and Professor Brauer in Hamburg, to do their own surgery which harks back to the days before physic and surgery became divorced. Just so, though the process is reversed, inasmuch as we have begun as surgeons, some of us are become a combination of neurologist and pathologist and ophthalmologist doing our own operations. And it is perhaps pertinent to this subject in general that in our own hospital the surgeon is called five times as often to the medical wards in consultation than the physician is called to the medical wards—the figures according to the consultation book for the past month having been 56 surgical to 11 medical consultations.

It would undoubtedly increase the quantity of the work done should all patients coming to the hospital go through the same mill and be distributed for their special therapy; but as in other modern piece-work organizations, quality is apt to suffer and with it the satisfaction of the worker in a well rounded out experience. But surgical operations represent such a serious kind of therapy except for ordinary hum-drum conditions, that the person who is to do the operation ought independently to study and pass upon the case himself before assuming the responsibility of the undertaking. What has been said in earlier paragraphs in regard to the brain tumor cases applies in a measure to all others. The surgeon who takes his cases wholly predigested by others may have an easier time than those who do not, but he is unlikely to contribute much more than a pair of hands to his profession.

HARVEY CUSHING,

Surgeon-in-Chief.

PETER BENT BRIGHAM HOSPITAL

Surgical Diagnoses and Operations

JANUARY 1, 1927, TO JANUARY 1, 1928

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths

SECTION I

SPECIFIC INFECTIOUS DISEASES

GENERAL DISEASES

(See also SPECIAL ORGANS)

Gonorrheal complications (varia)	20	..	..	..
<i>Operations</i> (varia) .....	..	..	10	..
Infection, acute respiratory	2	..	..	..
Pneumonia (post-operative, 23)	30	..	..	..
Poliomyelitis, acute anterior	1	..	..	..
Rheumatic fever, acute	1	..	..	..
Sepsis, general	5	1	..	..
Syphilis <i>Cordotomy</i>	33	..	2	..
Tinea "Epidermophytosis"	1	..	..	..
Tuberculosis, miliary	2	..	..	..
Typhoid fever	2	1	..	..

SECTION II

DISEASES DUE TO ANIMAL PARASITES

Echinococcus cyst	1	..	..	..
Oxyuris vermicularis	1	..	..	..
Scabies	1	..	..	..

SECTION III

DISEASES OF METABOLISM AND DEFICIENCY

Diabetes insipidus	3	..	..	..
Diabetes mellitus	30	..	..	..
Gangrene, diabetic <i>Amputation</i>	6	..	8	..
Obesity	1	..	..	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths

SECTION IV

DISEASES PECULIAR TO INFANCY

No cases

SECTION V

DISEASES DUE TO PHYSICAL AGENTS

Burns, varia	7	..	..	..
Gangrene, carbolic <i>Amputation</i>	1	..	1	..
Gangrene (exposure to cold) <i>Amputation</i>	1	..	2	..

SECTION VI

POISONINGS. INTOXICATIONS

Alcoholism, chronic	6	..	..	..
Poisonings, acute	1	1	..	..
Poisonings, chronic non-industrial	1	..	..	..

SECTION VII

TUMORS, BENIGN OR MALIGNANT

(See SPECIAL ORGANS)

SECTION VIII

CONGENITAL MALFORMATIONS

Anomaly of vein	1	..	..	..
Branchial cyst <i>Excision</i>	2	..	2	..
Craniopharyngeal pouch cyst (cf. Section XIV—pituitary gland)				
Deformity of feet, unspecified	1	..	..	..
Deformity of spine, unspecified	1	..	..	..
<i>Laminectomy</i> .....	..	..	1	..
Dislocation, congenital of joint	1	..	..	..
Diverticulum, Meckel's <i>Excision</i> ...	2	..	2	..
Hammer toe <i>Plastic operation</i>	1	..	1	..
Heart disease	1

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Hypospadias <i>Plastic operation</i>	1	..	3	..
Imperforate hymen <i>Plastic operation</i>	1	..	1	..
Kidneys :				
Polycystic kidney	2	..	..	..
Pilonidal sinus <i>Excision</i>	9	..	8	..
Spina bifida	1	..	..	..
Supernumerary breast <i>Excision</i>	1	..	1	..
Thyroglossal cyst <i>Excision</i>	1	..	1	..
Ureter :				
Double ureter	1	..	..	..
Uterus :				
Double uterus	1	..	..	..

SECTION IX

INJURIES

Abrasions and contusions	27	1	..	..
Crush of leg <i>Amputation</i>	1	..	1	..
Dislocation of coccyx <i>Excision</i>	1	..	1	..
Dislocation of elbow <i>Reduction</i>	1	..	1	..
Dislocation of hip	1	..	..	..
Dislocation of metacarpal <i>Reduction</i> ..	1	..	1	..
Dislocation of metatarsal	1	..	..	..
Dislocation of shoulder <i>Reduction</i> ..	3	..	2	..
Dislocation of wrist	2	..	..	..
Foreign body <i>Removal</i>	4	..	3	..
Fractures :				
Head :				
Mandible	1	..	..	..
Nasal bone	1	..	..	..
Skull <i>Decompression</i>	33	4	1	..
Lower extremity :				
Femur	21	5	..	..
Fibula	3	..	..	..
Metatarsals	4	..	..	..
Os calcis	1	..	..	..
Patella	3	..	..	..
Tibia	6	..	..	..
Tibia and fibula	15	..	..	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Upper extremity:				
Humerus	14	2	..	..
Metacarpal	1	..	..	..
Radius	7	..	..	..
Radius and ulna	4	..	..	..
Ulna	3	..	..	..
Trunk:				
Clavicle	7	1	..	..
Pelvis	6	1	..	..
Ribs	11	..	..	..
Scapula	1	..	..	..
Spine	4	..	..	..
Hematoma <i>Removal of clot</i>	14	..	7	..
Injuries, multiple internal	2	..	..	..
Rupture	4	..	..	..
Separation of joint	1	..	..	..
Severed artery	1	..	..	..
Severed nerve <i>Suture</i>	1	..	1	..
Severed tendon <i>Suture</i>	6	..	4	..
Sprain	2	..	..	..
Strain	3	..	..	..
Wound, gunshot	2	1	..	..
Wound, incised, or lacerated <i>Suture</i>	31	..	6	..

SECTION X

DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE

Abscess <i>Incision—drainage</i>	27	..	15	..
Acne vulgaris	1	..	..	..
Carbuncle, varia <i>Incision—drainage</i> ..	14	..	10	..
Cellulitis, varia <i>Incision—drainage</i> ..	12	2	3	1
Condylomata of vulva <i>Fulguration</i> ..	1	..	1	..
Dermatitis actinica <i>Skin graft</i>	1	..	1	..
Dermatitis venenata	1	..	..	..
Erythema nodosum	1	..	..	..
Erysipelas	1	..	..	..
Furunculosis <i>Incision—drainage</i> ..	3	..	1	..
Hyperidrosis	1	..	..	..

PETER BENT BRIGHAM HOSPITAL

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Keratosis senilis	1	..	..	..
Nevus pigmentosus <i>Excision</i>	1	..	1	..
Paronychia <i>Incision</i>	3	..	2	..
Psoriasis	1	..	..	..
Tumors :				
Angioma <i>Excision</i>	1	..	1	..
Carcinoma, epidermoid <i>Excision</i>	2	..	1	..
Cyst, sebaceous <i>Excision</i>	4	..	4	..
Epithelioma <i>Excision</i>	1	..	1	..
Fibrolipoma <i>Excision</i>	1	..	1	..
Lipoma <i>Excision</i>	9	..	8	..
Liposarcoma <i>Excision</i>	1	..	1	..
Lymphosarcoma <i>Excision</i>	1	..	1	..
Neurofibroma	1	..	..	..
Ulcer <i>Excision</i>	10	..	6	..
Wound, infected, varia	30	..	..	..
<i>Incision—drainage</i> .....	..	..	3	..

SECTION XI

DISEASES OF THE CIRCULATORY SYSTEM

A. ARTERIES

Aneurism	2	..	..	..
Arteriosclerosis	37	..	..	..
Embolism	1	..	..	..
Gangrene, senile <i>Amputation</i>	6	2	6	1
Hypertension, primary	34	..	..	..
Hypertension, secondary	1	..	..	..
Thromboangeitis obliterans	5	..	..	..
<i>Amputation</i> .....	.	..	3	..
<i>Excision</i> .....	..	..	3	..
Thrombosis	2	..	..	..

B. HEART

Angina pectoris	3	..	..	..
Aortic insufficiency	1	..	..	..
Aortic and mitral insufficiency with mitral stenosis	1	..	..	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Aortic insufficiency and mitral stenosis ..	1	..	..	..
Auricular ectopic or premature beats	2	..	..	..
Auricular fibrillation	14	..	..	..
Auricular fibrillation, paroxysmal	1	..	..	..
Endocarditis, acute	1	..	..	..
Endocarditis, subacute	2	1	..	..
Heart block, auriculo-ventricular	1	..	..	..
Heart disease, hypertensive with nephritis	4	..	..	..
Infarct of heart	2	1	..	..
Mitral insufficiency	1	..	..	..
Mitral insufficiency and stenosis	7	..	..	..
Myocarditis, chronic	58	1	..	..
Pericardial effusion, hemorrhagic	1	1	..	..
Pericarditis, acute	1	..	..	..
Pericarditis, chronic adhesive	2	..	..	..
Ventricular premature beats	1	..	..	..

C. VEINS

Thrombophlebitis <i>Excision</i>	18	..	3	..
Thrombosis	2	..	..	..
Tumors:				
Hemangioma <i>Excision</i>	2	..	2	..
Varix <i>Excision</i>	39	1	34	1
Varix with ulcers	4	..	..	..
<i>Excision—skin graft</i> .....	..	..	4	..

SECTION XII

DISEASES OF THE LYMPHATIC SYSTEM

Abscess, axillary <i>Incision—drainage</i>	4	..	4	..
Abscess, epitrochlear	1	..	..	..
<i>Incision—drainage</i> .....	..	..	1	..
Elephantiasis	1	..	..	..
Lymphadenitis <i>Incision—drainage</i> ..	13	..	5	..
Lymphangitis	10
Tuberculosis of lymph nodes, varia	12
<i>Excision</i>	10	..

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths

Tumors:

Carcinoma of lymph glands	4	..	..	..
<i>Excision</i> .....	..	..	1	..
Melanosarcoma <i>Excision</i>	1	..	2	..

SECTION XIII

DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS

Anemia, pernicious	1	..	..	..
Anemia, secondary	83	..	..	..
Erythemia (Polycythemia vera)	1	..	..	..
Hodgkin's disease	1	..	..	..
Jaundice, hemolytic (acholuric) acquired	1	..	..	..
Jaundice, hemolytic (acholuric) hereditary	1	..	..	..
Leukemia, atypical <i>Excision</i>	1	..	1	..
Leukemia, lymphoid	1	..	..	..
Leukemia, myeloid	2	1	..	..
Purpura hemorrhagica <i>Splenectomy</i>	1	..	1	..
Purpura thrombopenic <i>Splenectomy</i>	1	..	1	..

SECTION XIV

DISEASES OF THE DUCTLESS GLANDS

A. ADRENAL GLAND

Addison's disease	1
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C. PITUITARY GLAND

Acromegaly	14	1
<i>Transfrontal operation</i>	2	1
<i>Transphenoidal operation</i>	2	..
Dyspituitarism without tumor	2	..	..	..
Dyspituitarism with adenoma	29	1	..	..
<i>Transfrontal operation</i> .....	..	..	8	..
<i>Transphenoidal operation</i> .....	..	..	20	1
Dyspituitarism with tumor of cranio- pharyngeal (Rathke's) pouch	7	2	..	..
<i>Transfrontal operation</i> .....	..	..	3	1

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
D. THYMUS GLAND				
Persistent thymus gland	1	..	..	..
Status lymphaticus	1	1	..	..
E. THYROID GLAND				
Goitre, diffuse colloid	1	..	..	..
<i>Subtotal thyroidectomy</i> .....	..	..	1	..
Goitre, exophthalmic	26	..	..	..
<i>Subtotal thyroidectomy</i> .....	..	..	25	..
Hypothyroidism	1	..	..	..
Myxedema	2	..	..	..
Tumors:				
Adenoma <i>Partial thyroidectomy</i>	18	..	16	..
Cyst <i>Excision</i>	2	..	2	..
SECTION XV				
DISEASES OF THE NERVOUS SYSTEM				
A. BRAIN				
Abscess <i>Drainage</i>	8	..	5	..
Aneurism, cerebral <i>Ligation</i>	6	..	1	..
Arteriosclerosis, cerebral	9	..	..	..
Concussion	7	..	..	..
Embolism, cerebral	1	..	..	..
Encephalitis	3	..	..	..
Epilepsy	17	1	..	..
Hemiplegia	2	..	..	..
Hemorrhage into cerebrum	4	..	..	..
Hemorrhage into pons	1	..	..	..
Pneumatocele	1	..	..	..
Sinus thrombosis	1	..	..	..
Thrombosis, cerebral	2	..	..	..
Tumors:				
(1) Pituitary and suprasellar (<i>cf.</i> Ductless Glands, Section XIV, C)				
(2) Cerebral tumors, verified:				
Angioma racemosum <i>Extirpation</i>	4	..	1	..
Carcinoma, metastatic <i>Extirpation</i>	6	2	6	1
Echinococcus cyst <i>Extirpation</i>	1	..	1	..

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Ganglioneuroma	1	..	..	..
Glioma	46	9	..	..
<i>Exploration</i> .....	..	..	5	1
<i>Exploration with decompression</i> ..	..	..	6	3
<i>Extirpation, partial or total</i> .....	..	..	26	2
Meningioma	37	6	..	..
<i>Exploration</i> .....	..	..	2	1
<i>Extirpation, partial or total</i> .....	..	..	29	4
Pinealoma	1	1	..	..
Tuberculoma	1	..	..	..
<i>Exploration with decompression</i> ..	..	..	1	..
Tumor unclassified <i>Exploration</i> ..	1	..	1	..
(3) Cerebellar tumors, verified:				
(a) Intracerebellar tumors:				
Angioma <i>Extirpation</i> ...	1	..	1	..
Cyst <i>Exploration with evacuation of cyst</i>	1	..	1	..
Ependymoblastoma	1	1	..	..
<i>Exploration with decompression</i> .....	..	..	1	1
Glioma and gliomatous cyst ...	20	5	..	..
<i>Exploration</i> .....	..	..	2	1
<i>Extirpation, partial or total</i> ..	..	..	15	3
Hemangio-endothelioma	1	..	..	..
<i>Extirpation, partial</i> .....	..	..	1	..
Hemangioma	1	1	..	..
<i>Extirpation, total</i> .....	..	..	1	1
Meningioma	1	..	..	..
<i>Extirpation, partial</i> .....	..	..	1	..
Tuberculoma	1	..	..	..
<i>Extirpation, partial</i> .....	..	..	1	..
Tumor: unclassified	1	..	..	..
(b) Extracerebellar tumors:				
Acoustic neurinoma	12	2	..	..
<i>Extirpation, partial or total</i> ..	..	..	12	2
Cholesteatoma	2	1	..	..
<i>Exploration</i> .....	..	..	1	1
<i>Extirpation, partial</i> .....	..	..	1	..
Meningioma <i>Extirpation</i> ..	1	..	1	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
(4) Unverified tumors:				
(a) Cerebral	48	2	..	..
<i>Exploration with decompression</i> .....	..	..	23	1
(b) Cerebellar	19	..	..	..
<i>Exploration</i> .....	..	..	8	..
<i>Exploration with decompression</i> ..	..	..	5	..
(5) Tumor suspects:				
(a) Cerebral	78	9	..	..
<i>Exploration</i> .....	..	..	16	3
<i>Exploration with subtemporal decompression</i> .....	..	..	4	..
(b) Cerebellar <i>Exploration</i> ..	21	1	16	1
B. MENINGES				
Arachnoiditis	18	..	..	..
Meningitis	1	..	..	..
Meningitis, cerebrospinal	1	..	..	..
Meningitis, encephalo-	3	..	..	..
Meningitis, pneumococcic	2	1	..	..
Pachymeningitis, interna hemorrhagica ...	1	..	..	..
Postencephalitic syndrome	1	..	..	..
C. MENTAL AFFECTIONS				
Dementia (unqualified)	2	..	..	..
Dementia senile	2	..	..	..
Insanity, manic depressive	2	..	..	..
Paranoia	1	..	..	..
Psychoneuroses	32	..	..	..
Psychopathic personality	1	..	..	..
Psychoses, infectious	1	..	..	..
Psychoses, toxic	2	..	..	..
D. MISCELLANEOUS				
Cephalalgia <i>Trephine</i>	8	..	2	..
Convulsions	7	..	..	..
Hemicrania	1
Migraine	1
Oxycephaly <i>Decompression</i>	1	..	1	..
Paralysis agitans	3

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Speech defect	1	..	..	..
Vertigo	2	..	..	..
E. PERIPHERAL NERVES				
Anastomosis	1	..	..	..
Neuralgia	3	..	..	..
Neuralgia, sciatica	2	..	..	..
Neuralgia, trigeminal, major	22	..	..	..
<i>Alcohol injection</i> .....	..	..	7	..
<i>Avulsion of sensory root</i> .....	..	..	10	..
Neuralgia, trigeminal, minor	19	..	..	..
<i>Alcohol injection</i> .....	..	..	13	..
<i>Neurectomy</i> .....	..	..	2	..
Neuritis of peripheral nerve	3	..	..	..
Neuritis, post-traumatic	1	..	..	..
Paralysis, birth	2	..	..	..
Paralysis of cranial nerves <i>Anastomosis</i>	4	..	1	..
Paralysis of peripheral nerves	2	..	..	..
Singultus	2	..	..	..
Torticollis, spasmodic	2	..	..	..
Tumor:				
Neuroma <i>Excision</i>	1	..	1	..
F. SPINAL CORD				
Hematomyelia	1	..	..	..
Herpes zoster	3	..	..	..
Paraplegia	2	..	..	..
Quadriplegia	1	..	..	..
Sclerosis, spinal <i>Laminectomy</i>	4	..	1	..
Tumors:				
(1) Verified:				
Ependymal cyst	1	..	..	..
<i>Laminectomy with partial re-</i> <i>moval of tumor</i> .....	..	..	1	..
Hypernephroma, metastatic	1	..	..	..
<i>Cordotomy</i> .....	..	..	1	..
Meningioma	5	..	..	..
<i>Laminectomy with removal of</i> <i>tumor</i> .....	..	..	5	..
(2) Unverified <i>Decompression</i> ..	7	..	1	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
G. SYMPATHETIC NERVOUS SYSTEM				
Raynaud's disease <i>Ramisection</i>	1	..	1	..
SECTION XVI				
DISEASES OF THE BONES, JOINTS, MUSCLES, TENDONS, AND FASCIA				
A. DISEASES OF THE BONES AND CARTILAGES				
Exostosis <i>Excision</i>	1	..	1	..
Osteitis deformans	2	..	..	..
Osteomyelitis	14	1	..	..
<i>Amputation</i> .....	..	..	3	1
<i>Incision—drainage</i> .....	..	..	9	..
<i>Removal sequestra</i> .....	..	..	2	..
Periostitis, non-traumatic <i>Drainage</i>	4	..	3	..
Periostitis, traumatic	1	..	..	..
Tuberculosis of bone <i>Amputation</i> ..	5	..	1	..
Tumors:				
Angiosarcoma of pubic region <i>Excision</i>	1	..	1	..
Endothelioma of ilium	1	1	..	..
Myeloma, multiple	1	1	..	..
Osteoma of ethmoid	1	..	..	..
Osteoma of skull <i>Excision</i>	1	..	1	..
Sarcoma of vertebra <i>Laminectomy</i>	1	..	2	..
Tumor: unverified, of skull	1	..	..	..
B. DISEASES OF THE JOINTS				
Abscess of hip <i>Drainage</i>	1	..	1	..
Achondroplasia	1	..	..	..
Ankylosis	3	..	..	..
Arthritis, acute infectious	4	..	..	..
Arthritis, chronic infectious	25	..	..	..
<i>Amputation</i>	2	..
<i>Cordotomy</i>	1	..
Arthritis, subacute infectious	1
Arthritis deformans	4

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Contracture of wrist	1	..	..	..
Imperfect poise	1	..	..	..
Synovitis, traumatic	1	..	..	..
C. OTHER DISEASES				
Amputation stump, painful <i>Amputation</i>	2	..	2	..
Bursitis <i>Excision</i>	6	..	1	..
Contraction, cicatricial	2	..	..	..
Contraction, Dupuytren's	1	..	..	..
Contracture of Tendo-Achilles	1	..	..	..
<i>Lengthening</i> .....	..	..	1	..
Ganglion of knee <i>Excision</i>	1	..	1	..
Talipes equinus <i>Tenotomy</i>	1	..	1	..
Toe-drop	1	..	..	..
SECTION XVII				
DISEASES AND INJURIES OF THE EYE AND EAR				
DISEASES OF THE EYE				
B. LIDS				
Blepharitis (unqualified)	1	..	..	..
D. CONJUNCTIVA				
Conjunctivitis, acute	1	..	..	..
E. CORNEA				
Wound of cornea	1	..	..	..
H. LENS				
Cataract, senile	1	..	..	..
J. UVEAL TRACT				
1. IRIS				
Iritis	1	..	..	..
K. RETINA				
Amaurosis	1	..	..	..
Hemianopsia	1	..	..	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
M. OPTIC NERVE				
Amblyopia	1	..	..	..
Atrophy	3	..	..	..
Injury to optic nerve	1	..	..	..
Neuritis, optic	1	..	..	..
Papillitis	1	..	..	..
N. EYEBALL				
Exophthalmos	3	..	..	..
O. ORBIT				
Tumor :				
Osteoma <i>Excision</i>	1	..	1	..
DISEASES OF THE EAR				
Q. GENERAL				
Deaf-mutism	3	..	..	..
V. MIDDLE EAR AND MASTOID				
Mastoiditis, acute <i>Mastoidectomy</i> ..	2	..	1	..
Mastoiditis, chronic	2	1	..	..
<i>Incision—drainage</i> .....	..	..	1	..
<i>Mastoidectomy</i> .....	..	..	1	1
Otitis media <i>Radical mastoidectomy</i>	9	..	2	..
W. INTERNAL EAR				
Labyrinthitis	4	..	..	..
SECTION XVIII				
DISEASES OF THE NOSE AND ACCESSORY SINUSES				
Epistaxis	2	..	..	..
Eroded venule of nasal septum	1
Sinusitis <i>Drainage</i>	14	..	10	..
Tumors :				
Polypi <i>Excision</i>	4	..	4	..
Rhinophyma	1

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths

SECTION XIX

DISEASES OF THE MOUTH, LIPS, CHEEKS, PHARYNX, TONSILS AND PALATE

Abscess, varia	5	..	..	..
Adenoids, hypertrophied <i>Removal</i> ..	4	..	4	..
Inflammation of submaxillary gland	1	..	..	..
<i>Excision</i> .....	..	..	1	..
Pharyngitis, acute	2	..	..	..
Tonsillitis, acute <i>Tonsillectomy</i>	3	..	1	..
Tonsillitis, chronic <i>Tonsillectomy</i> ..	78	..	78	..
Tuberculosis of lip	1	..	..	..
Tumors:				
Carcinoma of lip	3	..	..	..
<i>Excision with dissection of neck</i> ....	..	..	3	..
Carcinoma of mouth	2	..	..	..
<i>Excision with dissection of neck</i> ....	..	..	1	..
Cyst, dermoid, of submental triangle ...	1	..	..	..
<i>Excision</i> .....	..	..	1	..
Tumor of parotid gland <i>Excision</i> ..	2	..	2	..

SECTION XX

DISEASES OF THE JAW, TEETH AND GUMS

Abscess, alveolar <i>Incision—drainage</i> ..	6	..	3	..
Caries of teeth	1	..	..	..
Gingivitis	1	..	..	..
Impacted tooth <i>Tooth extraction</i> ..	2	..	1	..
Pyorrhea alveolaris <i>Teeth extraction</i> ..	4	..	2	..
Ulcer of gum	1	..	..	..

SECTION XXI

DISEASES OF THE TONGUE

Tumor:				
Carcinoma	1	..	..	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
SECTION XXII				
DISEASES OF THE ESOPHAGUS				
Cardiospasm	1	..	..	..
Diverticulum <i>Esophagoscopy</i>	1	..	1	..
Foreign body <i>Esophagoscopy</i>	3	..	3	..
Tumors:				
Carcinoma <i>Gastrostomy</i>	6	3	2	1
SECTION XXIII				
DISEASES OF THE STOMACH				
Motor and secretory disturbances	5	1	..	..
<i>Gastro-enterostomy</i> .....	..	..	2	1
Tumors:				
Carcinoma	18	2	..	..
<i>Gastrectomy, partial</i> .....	..	..	5	..
<i>Gastro-enterostomy</i> .....	..	..	3	2
Ulcer, gastric	11	1	..	..
<i>Gastrectomy, partial</i> .....	..	..	2	..
<i>Gastro-enterostomy</i> .....	..	..	4	..
<i>Resection</i> .....	..	..	3	1
SECTION XXIV				
DISEASES OF THE INTESTINES				
Adhesions, intestinal <i>Lysis</i>	2	..	1	..
Appendicitis, acute	103	2	..	..
<i>Appendicectomy</i> .....	..	..	76	1
<i>Appendicectomy with drainage</i>				
<i>for abscess or peritonitis</i> .....	..	..	24	1
Appendicitis, chronic <i>Appendicectomy</i>	41	..	38	..
Cecum mobile <i>Fixation</i>	1	..	1	..
Colic, appendiceal <i>Appendicectomy</i> ..	2	..	2	..
Colitis, chronic	2
Colitis, mucous	1
Constipation	2
Diarrhea, chronic	1

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Diverticulitis <i>Transverse colostomy</i>	7	..	1	..
Diverticulosis	3	..	..	..
Diverticulum <i>Transverse colostomy</i>	5	..	1	..
Fistula, fecal	9	1	..	..
<i>Closure</i> .....	..	..	1	..
<i>Excision</i> .....	..	..	1	1
Gangrene <i>Resection ileum</i>	2	..	2	..
Gastroenteritis	5	..	..	..
Impacted feces	1	..	..	..
Intussusception of colon <i>Resection</i>	1	..	1	..
Lane's Kink	1	..	..	..
Obstruction, intestinal	23	2	..	..
<i>Enterostomy</i> .....	..	..	5	..
<i>Lysis of adhesions</i> .....	..	..	5	2
Paralytic ileus <i>Colostomy</i>	3	..	3	..
Stasis, intestinal <i>Colectomy, partial</i>	1	..	1	..
Tuberculosis	1	..	..	..
Tumors:				
Adenocarcinoma of caecum	2	..	..	..
<i>Colostomy and colectomy</i> .....	..	..	2	..
Adenocarcinoma of colon	12	3	..	..
<i>Colostomy and colectomy</i> .....	..	..	10	1
Adenocarcinoma of jejunum	1	..	..	..
<i>Resection</i> .....	..	..	1	..
Adenocarcinoma of recto-sigmoid	7	1	..	..
<i>Colostomy and resection</i> .....	..	..	6	1
Adenocarcinoma of rectum (<i>cf.</i> Section XXVIII)				
Adenocarcinoma of sigmoid	3	..	..	..
<i>Colostomy and excision</i> .....	..	..	5	..
Adenoma of appendix	2	..	..	..
<i>Appendicectomy</i> .....	..	..	2	..
Lipoma of ileum	1	..	..	..
Ulcer, duodenal	52	5	..	..
<i>Closure of perforation</i> .....	..	..	4	2
<i>Closure of perforation and gastro-enterostomy</i> .....	..	..	4	..
<i>Gastro-jejunostomy</i> .....	..	..	15	2

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
<i>Gastro-jejunostomy — transection</i>				
<i>pylorus</i> .. .. .	..	..	6	1
<i>Pyloroplasty</i> .. .. .	..	..	2	..
Ulcer of caecum <i>Resection</i>	2	1	2	1
Ulcer of ileum, perforated <i>Closure</i> .	1	..	1	..
Visceroptosis	3	..	..	..
Volvulus <i>Reduction</i>	2	2	2	2

SECTION XXV

DISEASES OF THE LIVER AND BILIARY TRACT

Abscess of liver <i>Drainage</i>	2	..	2	..
Adhesions about gall bladder <i>Lysis</i>	1	..	1	..
Cholecystitis, chronic	10	..	..	..
<i>Cholecystectomy</i> .. .. .	..	..	4	..
<i>Cholecystectomy—choledochostomy</i>	..	..	1	..
Cholelithiasis	9	..	..	..
<i>Cholecystectomy</i> .. .. .	..	..	1	..
<i>Cholecystectomy—choledochostomy</i>	..	..	1	..
Cholelithiasis with cholecystitis, acute ...	13	2	..	..
<i>Cholecystectomy</i> .. .. .	..	..	11	2
Cholelithiasis with cholecystitis, chronic ..	81	..	..	..
<i>Cholecystectomy</i> .. .. .	..	..	58	..
<i>Cholecystectomy—choledochostomy</i>	..	..	7	..
Cirrhosis of liver	5	..	..	..
Hepatitis <i>Cholecystectomy</i>	4	..	1	..
Jaundice, obstructive	1	..	..	..

SECTION XXVI

DISEASES OF THE PANCREAS

Pancreatitis, acute <i>Drainage</i>	4	..	2	..
Pancreatitis, chronic	2	..	..	..
<i>Cholecystenterostomy</i> .. .. .	..	..	1	..
Tumors:				
Carcinoma	5	2
<i>Cholecystoduodenostomy</i>	2	2
<i>Cholecystgastrostomy</i>	1	..

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths

SECTION XXVII

DISEASES OF THE ABDOMEN, ABDOMINAL WALL, AND PERITONEUM IN GENERAL

Abdominal pain (cause unknown)	2	..	..	..
Abscess of abdomen	3	1	..	..
<i>Incision—drainage</i> .....	..	..	2	1
Abscess, subphrenic <i>Exploration</i> ...	1	..	2	..
Adhesions, pelvic	1	..	..	..
Endometrial transplants in abdominal wall	1	..	..	..
<i>Excision</i> .....	..	..	1	..
Hernia, diaphragmatic	3	..	..	..
Hernia, epigastric <i>Repair</i>	2	..	1	..
Hernia, femoral <i>Repair</i>	7	..	6	..
Hernia, femoral, strangulated <i>Repair</i>	4	1	4	1
Hernia, inguinal <i>Repair</i>	147	..	121	..
Hernia, umbilical <i>Repair</i>	7	..	5	..
Hernia, umbilical, strangulated <i>Repair</i>	2	..	1	..
Hernia, ventral <i>Repair</i>	1	..	1	..
Hernia, ventral, post-operative <i>Repair</i>	20	..	15	..
Peritonitis, acute general <i>Drainage</i>	8	..	1	..
Peritonitis, acute local <i>Drainage</i> ..	3	..	1	..
Peritonitis, pelvic	1	..	..	..
Relaxed inguinal ring	1	..	..	..
Tumors:				
Carcinoma of omentum	1	..	..	..
Carcinomatosis, abdominal	4	..	..	..
Lipoma of abdominal wall <i>Excision</i>	2	..	2	..
Neurofibromatosis <i>Excision</i>	1	..	1	..

SECTION XXVIII

DISEASES OF THE RECTUM AND ANUS

Abscess, perianal <i>Incision—drainage</i>	7	..	5	..
Anal fissure <i>Dilatation or excision</i>	6	..	6	..
Diverticulitis of rectum	1	..	..	..
Fistula in ano	20	..	..	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
<i>Excision</i> .....	..	..	11	..
<i>Incision</i> .....	..	..	5	..
Fistula, rectal	1	..	..	..
Hemorrhoids, external or internal	63	1	..	..
<i>Clamp and cautery operation</i> ....	..	..	29	1
<i>Hemorrhoidectomy</i> .....	..	..	26	..
Proctitis <i>Sigmoidostomy</i>	1	..	1	..
Prolapse of rectum	2	..	..	..
<i>Moschowitz procedure</i> .....	..	..	2	..
Pruritis ani	2	..	..	..
Spasm of rectum <i>Dilatation</i>	1	..	1	..
Stricture of rectum (non-malignant)	1	..	..	..
<i>Sigmoidostomy</i> .....	..	..	1	..
Tumors:				
Adenocarcinoma of rectum	13	1	..	..
<i>Excision and sigmoidostomy</i> .....	..	..	8	..
Lymphangioma of rectum <i>Excision</i>	1	..	1	..
Papilloma of rectum	1	..	..	..
Polyp of rectum <i>Excision</i>	2	..	2	..

SECTION XXIX

DISEASES OF THE LARYNX

Laryngitis	1
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SECTION XXX

DISEASES OF THE TRACHEA AND BRONCHI

Asthma	2
Bronchitis, acute	4
Bronchitis, chronic	9	..	..	..
Fistula, bronchial	3	..	..	..

SECTION XXXI

DISEASES OF THE LUNGS

Abscess <i>Drainage</i>	12	1	7	..
Atelectasis	4

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Edema of lung	1	..	..	..
Embolism, pulmonary	5	..	..	..
Emphysema of lungs	1	..	..	..
Hemorrhage, pulmonary	1	..	..	..
Infarct of lung	8	..	..	..
Thrombosis, pulmonary	2	..	..	..
Tuberculosis	21	1	..	..

SECTION XXXII

DISEASES OF THE PLEURA AND MEDIASTINUM

Empyema	14	3	..	..
<i>Thoracostomy</i> .....	..	..	15	2
<i>Drainage (closed)</i> .....	..	..	9	..
Hemothorax	2	..	..	..
Pleurisy, acute fibrinous	2	..	..	..
Pleurisy, chronic fibrinous	1	..	..	..
Pleurisy, post-operative	1	..	..	..
Pleurisy, sero-fibrinous	2	..	..	..
Pneumothorax	3	..	..	..

SECTION XXXIII

DISEASES OF THE KIDNEY AND URETER

Abscess, perinephritic	2	..	..	..
<i>Incision—drainage</i> .....	..	..	2	..
Calculus, ureteral <i>Removal</i>	42	..	15	..
Hydronephrosis	8	..	..	..
<i>Nephrectomy</i> .....	..	..	1	..
<i>Nephropexy</i> .....	..	..	1	..
Nephritis, acute	2	..	..	..
Nephritis, arteriosclerotic	1	..	..	..
Nephritis, chronic	6	1	..	..
Nephrolithiasis	22	..	..	..
<i>Nephrectomy</i> .....	..	..	3	..
<i>Nephrotomy, pyelotomy or both</i> ..	..	..	11	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Nephroptosis <i>Nephropexy</i>	7	..	5	..
Nephrosis	1	..	..	..
Perinephritis	1	..	..	..
Periureteritis <i>Ureterotomy</i>	2	..	1	..
Pyelitis <i>Nephropexy</i>	27	..	1	..
Pyelonephritis	8	1	..	..
<i>Cystotomy</i> .....	..	..	1	..
<i>Nephrectomy</i> .....	..	..	2	..
<i>Ureterostomy</i> .....	..	..	1	1
Pyonephrosis	6	2	..	..
<i>Nephrectomy</i> .....	..	..	2	..
<i>Nephrotomy</i> .....	..	..	1	1
Stricture of ureter <i>Dilatation</i>	3	..	1	..
Tuberculosis of kidney <i>Nephrectomy</i>	11	..	7	..
Tumors:				
Cyst of kidney	1	..	..	..
Fibrosarcoma of kidney	1	..	..	..
<i>Nephrectomy</i> .....	..	..	1	..
Hypernephroma <i>Nephrectomy</i> ...	4	..	2	..
Papilloma of kidney <i>Nephrectomy</i>	1	..	1	..
Uremia	4	..	..	..

SECTION XXXIV

DISEASES OF THE BLADDER

Adhesions of fundus of bladder <i>Lysis</i> ..	1	..	1	..
Calculus, vesical <i>Removal</i>	6	..	4	..
Cystitis	23	..	..	..
Cystitis, interstitial <i>Cystectomy, partial</i> ..	3	..	1	..
Diverticulum of bladder <i>Excision</i> ..	6	..	3	..
Fistula, recto-vesical	3	..	..	..
Focal infection of bladder <i>Cystotomy</i> ..	1	..	1	..
Incontinence of urine	6	..	..	..
<i>Kelley support of urethra</i>	3	..
Retention of urine	2
Trigonitis	2
Tuberculosis	2

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
Tumors :				
Carcinoma	11	3	..	..
<i>Cystostomy</i> .....	..	..	2	..
<i>Cystostomy with excision, implan-</i> <i>tation of radium, or transplan-</i> <i>tation of ureter</i> .....	..	..	5	2
Papilloma <i>Cystostomy with excision</i>	3	..	2	..
Tumor : unclassified	1	..	..	..

SECTION XXXV

DISEASES OF THE URETHRA, MALE AND FEMALE

Abscess, periurethral	2	..	..	..
<i>Incision—drainage</i> .....	..	..	1	..
Caruncle of urethra	3	..	..	..
<i>Excision</i> .....	..	..	2	..
<i>Fulguration</i> .....	..	..	1	..
Fistula, urethral <i>Excision</i>	1	..	1	..
Stricture <i>Urethrotomy</i>	11	..	4	..
Urethritis	3	..	..	..

SECTION XXXVI

DISEASES OF THE MALE GENERA- TIVE ORGANS

A. GENERAL

Tuberculosis	1
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B. PENIS

Balanitis <i>Circumcision</i>	1	..	1	..
Paraphimosis	1
Phimosis <i>Circumcision</i>	4	..	1	..
Redundant prepuce <i>Circumcision</i> ...	1	..	1	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
C. PROSTATE				
Abscess <i>Drainage</i>	2	..	1	..
Calculus, prostatic	2	..	..	..
Prostate, non-obstructing	1	..	..	..
Prostate, obstructing	59	9	..	..
<i>Cystotomy, suprapubic</i> .....	..	..	3	3
<i>Prostatectomy, perineal</i> .....	..	..	7	..
<i>Prostatectomy, punch</i> .....	..	..	4	..
<i>Prostatectomy, suprapubic</i> .....	..	..	33	5
Prostatitis <i>Prostatotomy</i>	10	..	2	..
Tuberculosis	1	..	..	..
Tumors:				
Carcinoma	9	..	..	..
<i>Cystotomy, suprapubic</i> .....	..	..	2	..
<i>Implantation of radium</i> .....	..	..	4	..
<i>Prostatectomy, perineal</i> .....	..	..	2	..
<i>Prostatectomy, suprapubic</i> .....	..	..	2	..
D. SCROTUM				
Hydrocele <i>Excision</i>	19	..	15	..
Spermatocele <i>Excision</i>	4	..	2	..
Varicocele <i>Excision</i>	4	..	3	..
E. SEMINAL VESICLES				
Tuberculosis <i>Vesiculectomy</i>	2	..	1	..
Vesiculitis <i>Vasotomy</i>	4	..	2	..
F. TESTICLE				
Epididymitis	10	..	..	..
<i>Epididymotomy</i> .....	..	..	1	..
<i>Orchidectomy</i> .....	..	..	2	..
Malposition of testis <i>Replacement</i>	1	..	1	..
Tuberculosis of epididymis	1	..	..	..
<i>Epididymectomy</i> .....	..	..	1	..
Tumors:				
Carcinoma <i>Orchidectomy</i>	1	..	1	..
Embryoma <i>Orchidectomy</i>	1	..	1	..
Undescended testicle <i>Orchidopexy</i>	8	..	4	..

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DISEASES AND CONDITIONS	DIAGNOSES		OPERATIONS	
	Total	Deaths	Total	Deaths
SECTION XXXVII				
DISEASES OF THE FEMALE GENERATIVE ORGANS				
A. GENERAL AND FUNCTIONAL				
Abscess, pelvic <i>Drainage</i>	1	..	1	..
Cellulitis, pelvic	1	..	..	..
<i>Salpingo-oöphorectomy</i> .....	..	..	1	..
Dysmemorrhea <i>Dilatation—curettage</i> ..	3	..	2	..
Hydrocele of canal of Nuck <i>Excision</i> ..	1	..	1	..
Menopause <i>Dilatation—curettage</i> ..	7	..	3	..
Menorrhagia <i>Dilatation—curettage</i> ..	1	..	1	..
Menstruation, irregular	1	..	..	..
Relaxed pelvic floor	35	..	..	..
<i>Local repair</i> .....	..	..	13	..
<i>Local repair with suspension of uterus</i> ..	..	..	10	..
<i>Local repair with hysterectomy</i> ..	..	..	3	..
B. FALLOPIAN TUBES				
Hydrosalpinx <i>Salpingectomy</i>	5	..	4	..
Salpingitis, acute <i>Salpingectomy</i> ..	16	..	14	..
Salpingitis, chronic <i>Salpingectomy</i> ..	12	..	8	..
Tuberculosis	1	..	..	..
C. OVARY				
Oöphoritis, acute <i>Oöphorectomy</i>	5	..	3	..
Oöphoritis, chronic	2	..	..	..
Ruptured Graafian follicle <i>Plastic</i> ..	2	..	1	..
Tumors:				
Adenocystoma <i>Oöphorectomy</i> ...	1	..	1	..
Carcinoma	1	..	..	..
Cyst of ovary (varia)	36	..	..	..
<i>Excision</i> .....	..	..	15	..
<i>Oöphorectomy</i> .....	..	..	19	..
Cystadenoma	4	..	..	..
<i>Excision</i> .....	..	..	1	..
<i>Oöphorectomy</i> .....	..	..	3	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSIS		OPERATIONS	
	Total	Deaths	Total	Deaths
D. UTERUS				
Abscess <i>Drainage</i>	1	..	1	..
Anteflexion of uterus <i>Suspension</i> ..	2	..	2	..
Cervicitis, chronic <i>Curettage</i>	4	..	1	..
Endocervicitis, chronic	25	..	..	..
<i>Curettage or excision</i> .....	..	..	21	..
Endometritis (varia)	17	..	..	..
<i>Dilatation—curettage</i> .....	..	..	14	..
Hypertrophy of cervix-uteri	1	..	..	..
Laceration of cervix-uteri	25	..	..	..
<i>Trachelorrhaphy</i> .....	..	..	17	..
Metrorrhagia	5	..	..	..
<i>Dilatation—curettage</i> .....	..	..	4	..
<i>Panhysterectomy</i> .....	..	..	1	..
Retroversion of uterus <i>Suspension</i> ..	25	..	19	..
Tumors:				
Adenocarcinoma of uterus	1	1	..	..
<i>Hysterectomy</i> .....	..	..	1	1
Adenoma <i>Dilatation—curettage</i> ..	1	..	1	..
Adenomyoma of uterus	2	..	..	..
<i>Excision</i> .....	..	..	1	..
<i>Hysterectomy, supravaginal</i> .....	..	..	1	..
Carcinoma of cervix-uteri	1	..	..	..
<i>Dilatation—curettage</i> .....	..	..	1	..
Cyst of cervix-uteri	2	..	..	..
<i>Dilatation—curettage</i> .....	..	..	1	..
<i>Excision</i> .....	..	..	1	..
Fibromyoma of uterus	56	1	..	..
<i>Dilatation—curettage</i> .....	..	..	1	..
<i>Dilatation—curettage with im-</i> <i>plantation of radium</i> .....	..	..	4	..
<i>Hysterectomy, supravaginal</i> .....	..	..	27	..
<i>Myomectomy</i> .....	..	..	9	..
<i>Panhysterectomy</i> .....	..	..	7	1
Polypus of cervix-uteri	6	..	..	..
<i>Dilatation—curettage with ex-</i> <i>cision</i> .....	..	..	6	..
Polypus of uterus <i>Excision</i>	2	..	2	..

PETER BENT BRIGHAM HOSPITAL

DISEASES AND CONDITIONS	DIAGNOSIS		OPERATIONS	
	Total	Deaths	Total	Deaths
E. VAGINA				
Atresia of vagina <i>Plastic</i>	1	..	1	..
Cystocele (trauma of parturition)	1	..	..	..
<i>Repair</i> .....	..	..	1	..
Fistula, recto-vaginal <i>Repair</i>	2	..	2	..
Fistula, uretero-vaginal	1	..	..	..
Fistula, vesico-vaginal <i>Repair</i>	1	..	1	..
Rectocele (trauma of parturition)	1	..	..	..
Tumor:				
Carcinoma	1	..	..	..
F. VULVA				
Abscess of Bartholin's gland <i>Excision</i>	1	..	1	..
Bartholinitis <i>Excision of gland</i>	2	..	2	..
Tumor:				
Cyst of Bartholin's gland	1	..	..	..
SECTION XXXVIII				
PUERPERAL STATE				
Abortion complete	2	..	..	..
Abortion incomplete	22	..	..	..
<i>Dilatation—curettage</i> .....	..	..	22	..
Laceration of perineum <i>Repair</i>	1	..	1	..
Pregnancy	13	..	..	..
Pregnancy, extrauterine	6	1	..	..
<i>Salpingectomy</i> .....	..	..	2	1
<i>Salpingo-oöphorectomy</i> .....	..	..	4	..
Retained secundines	1	..	..	..
<i>Dilatation—curettage</i>	1	..	1	..
SECTION XXXIX				
DISEASES OF THE BREAST, MALE AND FEMALE				
Cystic disease of breast <i>Excision</i> ..	3	..	3	..
Mastitis	4	..	..	..
<i>Amputation</i> .....	..	..	1	..
<i>Excision</i> .....	..	..	2	..

REPORT OF THE SURGEON-IN-CHIEF

DISEASES AND CONDITIONS	DIAGNOSIS		OPERATIONS	
	Total	Deaths	Total	Deaths
Tuberculosis <i>Amputation</i>	1	..	1	..
Tumors:				
Adenocarcinoma <i>Amputation</i>	2	..	2	..
Adenofibroma <i>Excision</i>	2	..	2	..
Carcinoma	28	..	..	..
<i>Radical amputation</i> .....	..	..	23	..
Cyst <i>Excision</i>	1	..	1	..
Cystadenoma <i>Amputation</i>	1	..	1	..
Fibroma <i>Excision</i>	1	..	1	..
SECTION XL				
ANAPHYLAXIS				
Asthma	1	..	..	..
SECTION XLI				
ABNORMALITIES OF URINE				
Hematuria <i>Nephrectomy</i>	5	..	3	..
SECTION XLII				
ILL-DEFINED OR UNCLASSIFIED DISEASES				
Decubitus	2	..	..	..
Fever, cause unknown	1	..	..	..
Gangrene (unqualified) <i>Amputation</i>	4	..	3	..
Hemorrhage, post-operative <i>Ligation</i>	3	..	1	..
Ingrowing toenail <i>Incision—drainage</i>	1	..	1	..
Shock, traumatic	5	..	..	..
Undiagnosed	67	..	..	..
<i>Appendicectomy</i> .....	..	..	9	..
<i>Exploratory laparotomy</i> .....	..	..	8	..
Wound of operation <i>Secondary suture</i>	8	..	3	..
	3,715	135	1,858	79

PETER BENT BRIGHAM HOSPITAL

Summary of Statistics

JANUARY 1, 1927, TO JANUARY 1, 1928

Total number of surgical admissions in 1927	2,479	
Total number of cases remaining in wards, Jan. 1, 1927	102	
	<hr/>	2,581
	<hr/>	<hr/>
Total number of surgical cases discharged or transferred	2,339	
Total number of deaths	135	
<i>(Post-operative, 79—Non-operative, 56—Total, 135)</i>		
	<hr/>	
	2,474	
Total number of cases remaining in wards, Jan. 1, 1928	107	
	<hr/>	2,581
	<hr/>	<hr/>
Total number of operations	1,858	
Incidental operations	167	
	<hr/>	2,025
	<hr/>	<hr/>

Report of the Physician-in-Chief

NEED FOR ENLARGEMENT OF LABORATORY BUILDING

ANOTHER year has emphasized the pressing need for additional space for laboratories and hospital records. This need was discussed at some length in the 1926 annual report. All of the laboratory workers, medical, surgical and pathological are cramped for space in which to work. The clerks handling hospital records are far less efficient than they should be because of lack of space.

The Trustees at once should consider seriously this defect in our plant. I would urge on them that they authorize the Superintendent to prepare plans for an enlarged laboratory building to meet these two needs of the Hospital. In recent years the striking thing in hospital developments all over the country has been increased provision for laboratories, without which the modern hospital functions badly. There is no doubt but that the Peter Bent Brigham Hospital has failed to keep pace with other hospitals in laboratory developments, and now ranks last among Boston's larger hospitals in this regard.

DEATH OF DR. PEABODY

On October 13, 1927, died Dr. Francis W. Peabody, Consulting Physician to the Peter Bent Brigham Hospital since December 8, 1921. Dr. Peabody was the first Resident Physician at the Peter Bent Brigham

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Hospital and served us in that capacity from 1912 until 1915; from 1915 to 1921 he was Physician. In the plan of organization of the Peter Bent Brigham Hospital the Resident Physician is the most important member of the resident staff, and on him depends in large part the effectiveness of the running of the medical service. Dr. Peabody had made for himself an unusual record as a medical student. He had had exceptional advantages in further training, first at the Massachusetts General Hospital, next at the Johns Hopkins Hospital, and finally at the Rockefeller Hospital. He was possessed of fine character, good intellect, and a charming personality. He seemed ideally suited to inaugurate the traditions of Resident Physician. That he should do so in a way so acceptable, as he did, was assured from the first.

Today our organization functions efficiently in large measure because of the tradition set by Dr. Peabody, both as Resident Physician and as Physician. In years to come, if the historian analyzes the work of the Peter Bent Brigham Hospital, I feel sure that there will be found many threads running through our history which will be traced back to Francis W. Peabody as first Resident Physician. The promise of his years of training came to rapid fruition at the Peter Bent Brigham Hospital, where among us he was recognized early as a stimulating teacher, an effective investigator, a wise clinician, and a man of unusual personal charm combined with considerate thoughtfulness of others, complete dependability and an unusual fairness of mind and action founded on uprightness of character. These qualities soon had general recognition, and others sought his advice and assistance, as we already were doing.

REPORT OF THE PHYSICIAN-IN-CHIEF

Elsewhere have appeared numerous tributes to the work and character of Francis W. Peabody. Here is not the place to restate his great accomplishments and to rename his honors. To us of the Peter Bent Brigham Hospital he has been all and more than to any other group for we had him longest. His memory will be cherished ever by us; long years to come he still will be serving members of the staff of the Peter Bent Brigham Hospital as an ideal toward which they will strive; an ideal assistant, associate and colleague, wise in the lore of medicine, and great in his qualities of mind and character, a loved friend never to be forgotten.

ANAEMIA STUDIES

It is gratifying that the Peter Bent Brigham Hospital has had a considerable share in the investigation of pernicious anæmia which has resulted in a very satisfactory method of treatment with liver diet or a substance extracted from liver. Drs. George R. Minot and William P. Murphy, who have accomplished this, are both Associates in Medicine on our staff.

This investigation of pernicious anæmia shows particularly well the effectiveness of a combination of opportunities afforded by a group of institutions closely affiliated together and particularly does it illustrate the indispensability of patients for a certain type of important clinical investigation.

All of the studies of Drs. Minot and Murphy have been made on patients, for man alone has the disease pernicious anæmia and human beings with pernicious anæmia alone could serve as a test of the efficiency of any suggested therapy. On this account patients who

had been thoroughly studied either in the hospital or in private practice (and it is of significance that the latter were extensively utilized) were necessary. Many of these were observed in the wards of the Peter Bent Brigham Hospital and followed up in return visits to our Out-Door Department. Others were followed in the medical clinics of other hospitals affiliated with the Harvard Medical School. These patients at the Peter Bent Brigham Hospital were studied in our private and public wards and cared for by the regular hospital staff. After being diagnosed as pernicious anæmia, Drs. Minot and Murphy were notified and treatment was carried out under their supervision. More frequent and special blood examinations were made by one of them or by young investigators associated with them or by a technician provided from the Proctor Fund of the Harvard Medical School for the study of chronic disease.

Soon it became evident that liver was effective in restoring these patients' deficiencies in blood, but many cases needed to be followed to be sure that this was not a coincidence rather than a result of the treatment, for pernicious anæmia has a natural cycle of improvement and relapse. Cases needed to be followed over many months while continuing liver diet. Here the Out-Door Department and office visit functioned. Private patients, owing to their high degree of intelligence and economic ability to carry out special diets, were particularly useful.

After it became evident that the liver contained a substance effective in treating pernicious anæmia, the next thing was to find out, if possible, what was the nature of the effective material in the liver. Aid was sought from the laboratories of the Harvard Medical

REPORT OF THE PHYSICIAN-IN-CHIEF

School. Dr. Edwin J. Cohn there was an expert in the methods of studying body proteins, and he joined in the investigation and began to split up liver into fractions. These fractions again had to be tested on patients. The ineffective fraction then could be discarded and the effective further split. This was continued until a simple effective fraction was obtained that could be prepared in powder form. Now a committee on pernicious anæmia was appointed by the Dean of Harvard Medical School, who invited a manufacturing pharmaceutical company to cooperate in the production of the effective liver extract in form for general distribution to practicing physicians. All of these preparations had to be tested on pernicious anæmia patients before one could say that they were satisfactorily efficient or not. Only previously untreated patients or those who had stopped treatment could be used because the patient had to be anæmic to serve as a test. Consequently, many patients were required, and a series of twelve medical clinics in North America aided in determining the value of liver extracts. Finally, Eli Lilly and Company of Indianapolis, who had cooperated, were permitted to dispense a liver extract, known as No. 343 which has proved very efficient in the treatment of over 100 cases of pernicious anæmia, and this extract is continuing to be produced under the control of the Harvard Medical School.

It is seen that in this research the resources of affiliated hospitals, patients in private practice, the Medical School laboratories, and a commercial pharmaceutical house have been used in cooperation to produce a new method of treatment of pernicious anæmia, which it seems has succeeded in changing this form

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of anæmia from a progressive, incurable disease, to one which is markedly alleviated by continued treatment. Again, I would emphasize that patients throughout have cooperated, willingly taking liver diet or permitting a trial test on themselves of liver fractions. Without this attitude of patients the study would have been impossible. Without cooperation of several institutions, as outlined above, the study might have been carried out but for its completion vastly more time would have been required.

That the Peter Bent Brigham Hospital by reason of its organization has been able to cooperate so effectively with these two members of its staff, Drs. Minot and Murphy, is a source of great gratification. Such a study emphasizes how money given to the Peter Bent Brigham Hospital for research may help in the advancement of medical knowledge and improvement in methods of treatment. The work on pernicious anæmia has suggested many lines of investigation of other blood diseases; nor are merely blood diseases concerned. Feeding liver, but not the extract effective in pernicious anæmia, has been found to have an effect on carbohydrate metabolism, and may help in treating diabetes. Obviously, liver has an important influence on cell growth, and further study of this conceivably may throw light on tumors. However, if the Peter Bent Brigham Hospital is to share in such further studies, an enlarged laboratory as discussed in the opening paragraphs of this report will be needed.

CHANGES IN STAFF

In the middle of the year the increase in the number of medical house officers became effective, and on July 1 the medical service was split into three units of

REPORT OF THE PHYSICIAN-IN-CHIEF

approximately thirty ward beds each, and a few private room patients. On each unit were three house officers in a graded procession of duties, each assignment of duty occupying four months. On November 1 three house officers were ready to commence a four-months' assignment of all-day duty in the Out-Door Department. As the upper floor of the Out-Door Department building had been finished so as to provide additional examining rooms, there was space for the added house officer in the Out-Door Department. This addition of house officers has permitted of more efficient service to both house and Out-Door Department patients. In addition it has increased the effectiveness of the Peter Bent Brigham Hospital in its educational work, since from now on we will graduate each year nine instead of six house officers.

During 1927 the following changes in staff personnel have taken place. Dr. Howard L. Alt after two years as Assistant Resident Physician became Resident Physician in place of Dr. Charles L. Brown, who was appointed Junior Associate in Medicine, Dr. Abner W. Calhoun resigned as Assistant Resident Physician to begin practice at Atlanta, Georgia, Dr. James S. Read resigned as Assistant Resident Physician to return to Louisville, Kentucky, as a member of the medical department of the Medical School of the University of Louisville, Dr. William B. Stevens resigned as Assistant Resident Physician to begin practice in Boston, and Dr. Lyman Hoyt resigned as Assistant Resident Physician to become Junior Associate in Medicine.

During the year the following were appointed as Assistant Resident Physicians: Dr. M. Herbert Barker, formerly house officer at the Wesley Memo-

PETER BENT BRIGHAM HOSPITAL

rial Hospital, Chicago, Dr. Marshall N. Fulton and Dr. Robert J. Schneck, formerly medical house officers at the Peter Bent Brigham Hospital, Dr. Edgar J. Munter, formerly Assistant Resident in Medicine at the University Hospital, San Francisco, California, and Dr. E. J. Kirk, formerly Assistant House Resident, Douglas County Hospital, Omaha, Nebraska.

Of the Junior Associates in Medicine, Dr. W. R. Graham resigned to begin practice at Richmond, Virginia, and Dr. A. B. Coulter, to begin practice at Washington, D. C.

During the year the following medical house officers completed their service: Dr. Joseph C. Massee, to become Resident Physician at the hospital of the U. S. Prison at Atlanta, Georgia; Dr. M. Herbert Barker, to become Assistant Resident Physician at the Peter Bent Brigham Hospital; Dr. William H. Potts, Jr., to commence practice at Dallas, Texas; Dr. Albert H. Mann, to go abroad for further study, and Dr. Robert J. Schneck, to become Assistant Resident Physician at the Peter Bent Brigham Hospital.

PHYSICIAN-IN-CHIEF, *Pro Tempore*

The custom of having an eminent physician in residence as Physician-in-Chief, *Pro Tempore*, has been continued by Dr. David Riesman, Professor of Clinical Medicine at the University of Pennsylvania and Physician to the University of Pennsylvania Hospital and the Philadelphia General Hospital. If there is anything unlucky in the number 13 Dr. Riesman dispelled it, whether by reason of his skill as a practitioner or by virtue of the charm of himself, I know not. The fact remains that our thirteenth Physician-

REPORT OF THE PHYSICIAN-IN-CHIEF

in-Chief, *Pro Tempore*, rendered us a delightful service. A keenly critical, but always kindly clinician and teacher, Dr. Riesman gave to us much from his great store of clinical wisdom and taught us the methods of good practice, for it was very evident that he had complete mastery of the ways of influencing his patients to follow his advice, the advice of one who evidently had mastered both the art and the science of medicine.

As the roster of the Physicians-in-Chief, *Pro Tempore*, lengthens, I am convinced that their coming to us is far more than an enjoyment of their all-too short a stay. To those of us on the permanent staff comes the realization of a great indebtedness to them for methods and ideas that have improved our local ways of doing things. To the resident staff, who come in closest contact with them, the influence of this annual visitor is, I am sure, a tremendous stimulus to better medicine. We like to think of these men as perpetual members of our staff, because their influence assuredly is not temporary.

OUT-DOOR DEPARTMENT

Dr. Fitz has followed Dr. Sturgis in charge of the Out-Door Department. Last year Dr. Sturgis prepared a very stimulating report on the medical Out-Door Department, which appeared as part of my annual report. I am glad to state that a very large part of the suggestions of Dr. Sturgis for the improvement of the Out-Door Department already have been put into effect and our service to ambulatory patients is far better than it has ever been. The report of Dr. Fitz for 1927 follows.

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REPORT OF DR. FITZ ON THE OUT-DOOR DEPARTMENT

During the past year, the Medical Out-Door Department has run along very comfortably under the general plan outlined by Dr. Sturgis in last year's report. There have been no striking changes in policy.

An increased service to patients has been made possible by the completion in April of the new group of examining rooms on the north side of the building and by the addition to the staff in November of the full-time services of an extra house officer. The fourth-year medical students working as clinical clerks each morning have also contributed to the effectiveness and promptness with which our clients are attended to. Thus there has been an appreciable growth of the work accomplished in the last year as compared with the years immediately preceding. This is illustrated by the following figures:

NEW CASES IN MEDICAL O. D. D.

1925.....	3,182
1926.....	2,891
1927.....	3,613

The special clinics have continued to function, and have been directed by the following members of the staff:

Arthritis	Dr. Francis L. Burnett
Arthritis	Dr. Francis C. Hall
Asthma	Dr. I. Chandler Walker
Blood Diseases	Dr. George R. Minot and Dr. William P. Murphy
Cardiac Diseases	Dr. Samuel A. Levine
Diabetes	Dr. Reginald Fitz and Dr. Harry Blotner

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Gastrointestinal Diseases	Dr. Edward S. Emery
Nutrition Clinic	Miss Thelma Tubbs
Renal Diseases	Dr. James P. O'Hare
Syphilis	Dr. James S. Read and Dr. Edgar J. Munter
Thyroid Diseases	Dr. Lyman P. Hoyt
Tuberculosis	Dr. Nathaniel K. Wood

These various clinics have taken care of a great many patients. During the year a total of 32,303 visits were made to the Medical Department. Of these 14,847, or about half, were cared for in the special clinics, which, therefore, have most certainly done their share of the work.

The Social Service Department has been of immeasurable help in straightening out the social side of the various problems which were encountered. Bishop Lawrence, recently, in addressing the graduating class of nurses at the Massachusetts General Hospital emphasized the great demand for educational social service work in the prevention and management of various medical and surgical disorders. Our own Social Service Department, under Miss Cheney's guidance, has had this phase of its work in mind for some time. During the past year Social Workers have visited the homes of many of our patients and have taught them how to take the diets and treatment ordered by the doctors, and how to follow out in detail their various instructions. This phase of the Social Work has been very far-reaching. It is easy to order a prescription diet for a patient of a given number of calories, to advise him to take a given amount of medicine each day, and to so modify his life that he never works more than four hours a day and remains at rest in bed ten hours out of each

twenty-four. Putting into practice such advice, however, may be more difficult, and the Social Service Department has proved very helpful in teaching patients the practical ways of carrying out the medical advice which they received here.

Our dietitians, under Miss Tubbs, have been extremely cooperative. Dietitians have been assigned to several of our special clinics and have demonstrated to the various members of these classes how to measure and prepare foods. This has naturally helped the satisfactory management of cases in which diet therapy was especially important. For a time the experiment was tried of having a Consulting Dietitian on duty for an hour each day in the General Medical Clinic, with the idea of saving time for certain patients in getting a proper diet before they were assigned to whichever therapeutic class seemed indicated. For some unknown reason this experiment did not yield especially satisfactory results and the plan was given up. It might be tried again with benefit and prove successful.

Our nurses have been most efficient. We have had assigned to the Medical Clinic enough nurses so that we have not felt short-handed at any time. They have helped in various ways to make things run smoothly for both patients and doctors in the Clinic so that the nursing work has been most appreciated. Miss Felicia Kovalska has been in charge of the Clinical Laboratory. She has examined a vast number of specimens for us, faithfully, accurately, and promptly. She deserves much credit for what she has accomplished during the year.

On the average 106 patients were taken care of each working day in the Medical Clinic. Thus there

REPORT OF THE PHYSICIAN-IN-CHIEF

was always on hand an abundance of patients from whom to learn the technique of medical practice. If one cared to study the various methods of treatment now used in asthma and its allied diseases, he could see on the average sixty-five such cases treated at each meeting of Dr. Walker's Clinic. The average daily attendance of the diabetic clinic was nineteen patients, of the cardiac sixteen, of the luetic sixteen, of the arthritic clinics thirteen, and so on down to an average of five patients at each meeting of the clinics for the thyroid or anemia cases. I have quoted these figures merely to emphasize the wealth of opportunity for learning or teaching medicine that now exists in our Out-Door Clinic. We have scarcely begun to develop this phase of its work.

I have only a few criticisms of the Out-Door Department work as it is managed at present. I shall take this opportunity, however, to emphasize certain weaknesses of the system which I think might be remedied.

The case records of the Hospital are recognized everywhere as being remarkably perfect. Our out-patient records, in contrast, are extremely bad. We teach house officers and students in the wards to study cases with greatest care, approaching each one with a scientific investigative viewpoint, which not only results in admirably complete diagnoses and treatment, but almost always, also, in something new and unexpected. We teach the same men in the Out-Door Department to be as superficial as possible, arriving at a diagnostic and therapeutic conclusion with the least possible effort. Fortunately our Staff is so well trained that few, if any, glaring errors are made.

But, on the other hand, we entirely miss the great opportunity for constructive medical research which an out-patient clinic such as ours affords.

In the House, we feel a strong sense of responsibility to our patients' family doctors. We invite them to attend our ward rounds, we show them everything that we do in the management of their cases, and we write them a detailed report of all our observations when the patients leave our care to return home. In the Out-Door Department, we see a great many patients who are referred to us by doctors, but we take only the scantiest trouble to keep such doctors informed of our conclusions in regard to their cases, and their disposal.

In the Out-Door Department we, of the Hospital Staff, act to a certain extent as family doctors to many patients. We examine them, perhaps refer them to the wards for treatment and take up later their subsequent care as ambulatory cases in one of the various clinics. As family doctors, we are treated very shabbily by our colleagues in the wards. They give us as little information as possible in regard to what they think of our cases, and how they treat them as ward patients in the Hospital. As an example of what I have in mind, Mrs. ———, Case 121,547, was a woman of 49 years old who came to the Out-Door Department a few weeks ago. She had Exophthalmic Goiter—an easily recognized disease in this instance, staring us all in the face. We made a brief history of her case for our records, a perfunctory physical examination, and referred her immediately to the wards for treatment. Our history, not including the physical examination, was 140 words long.

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The following form letter was written to her doctor from the Administrative Department of the Hospital:

"Dear Doctor:

"Your patient, Mrs. ———, was admitted to our Out-Door Department and examined.

"Diagnosis: Hyperthyroidism. Advised to enter House.

"A. P. Stereo of lumbar spine and sacrum show no evidence of fracture or dislocation.

"Very truly yours,

"Superintendent."

It took a history in the medical ward, again not including the physical examination, of 1,400 words to satisfy the requirements of the house record for the same case. This history was fully ten times as valuable as ours in the Out-Door Department, and probably took ten times as long to complete. It contained a great many colorful details, which perhaps were not of paramount importance to either diagnosis or treatment, but were interesting and capable of being utilized in the accumulation of statistical data. It was an extremely good case record.

The patient remained in the medical ward for fifteen days. During this time, in addition to the history, a record of 3,000 words was compiled describing the clinical features of the illness. There were also appended several typewritten pages of carefully accumulated laboratory data, and details of treatment.

An operation was indicated, and Mrs. ——— was transferred to the surgical ward. Dr. Christian has been kind enough to send me, in regard to this patient, a sample letter illustrating the kind of information which a family doctor ordinarily receives when his patient is discharged from the medical wards of our Hospital.

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"Dear Dr. Fitz:

"Your patient, Mrs. ———, of ——— Street, ——— Massachusetts, was transferred on November 21st to the surgical service for operation.

"We found that she had an exophthalmic goiter, and that secondary to this she had developed a chronic myocardial disease with auricular fibrillation. Her basal metabolic rate on admission was +72, and as the result of treatment with iodine and rest in bed it gradually fell to +18. In addition to the iodine she received powdered digitalis leaves, and as a result her pulse deficit disappeared and her pulse rate slowed down to 80. I believe that she will stand operation satisfactorily, and that a partial thyroidectomy, not alone will improve her exophthalmic goiter, but will materially improve her cardiac condition.

"With very many thanks for referring her to the Peter Bent Brigham Hospital, I am

Very truly yours,

(Signed) HENRY A. CHRISTIAN."

There is a striking contrast between this letter, written personally from one doctor to another and giving, concisely and clearly, a summary of various clinical impressions and findings, and the form letter, sent to the same doctor and for the same purpose from the Out-Door Department. I should like to see as good a letter as Dr. Christian's written to all the doctors referring cases to the Out-Door Department. This could be accomplished without too much effort and would build up a reputation for us of trying to be of as much medical help as possible to the various doctors in the community whose confidence we now enjoy.

Our surgical colleagues made a third, entirely new case record on Mrs. ———. This included a 400-word summary of the medical record, and 2,500 words describing the operation which was performed, the

REPORT OF THE PHYSICIAN-IN-CHIEF

post-operative course, the histological changes in the removed thyroid gland reported by the pathologist, and a final note as to the patient's condition at discharge from the Hospital. Incidentally, again, there were many pages of laboratory data and details in regard to treatment.

Finally, a fourth entirely new case record of Mrs. ——— was made by the Social Service Department. This included a description of how Mrs. ——— lived, her family and financial difficulties, and described the various means employed for getting her into the Hospital, for supervising her convalescence, and for helping her carry out the instructions which had been given her. The record contained 1,100 words of very pertinent data through which it was possible to visualize and understand Mrs. ———'s personal problems in a way which was otherwise impossible. The hospital records reported clinical observations, beautifully made, upon a case of exophthalmic goiter. The social service record gave a summary of a certain poor woman's life, Mrs. ———, who unfortunately had an illness, and described the ways and means by which it was possible for her to be cured. The medical and surgical records were as incomplete without the social service record, as was the social service record without the more strictly professional ones.

The patient was finally sent home from the hospital and referred back to our Thyroid Clinic for follow-up work. As a result of a combined record of some eight thousand words describing the life in the hospital of our patient over a period of several weeks and including a great deal of extremely important, relevant, carefully assembled laboratory and social data, all the information we in the Out-Door Depart-

PETER BENT BRIGHAM HOSPITAL

ment obtained in regard to what had been accomplished was as follows:

"Discharged from House.

Diagnosis—Exophthalmic Goiter.

Thyroidectomy December 1, 1927.

Metabolism down to +4, January 12, 1928.

Please refer to Goiter Clinic."

I have selected this case as illustrating the present method employed in transferring cases from one division of the Hospital to another. It is by no means peculiar or striking.

In the Out-Door Department we cannot help but feel that we are treated a good deal worse by our house colleagues than though we did not belong to the Hospital family. We get practically no medical information from sending our patients to the wards. To be sure, the house men tell us that their records are at our disposal at all times and invite us to utilize them as we see fit. Anyone who knows the hospital records as we do, however, recognizes that to transfer the gist of an eight-thousand record to the Out-Door Department record is no mean task. It takes time and thought, as well as much ink. We are not especially perturbed by the mechanical side of the job, but time we cannot spare. There are a hundred patients to be seen each day and no matter how quickly we work there are always more to be seen, waiting in an endless chain. So we carry on, and our records continue to do us but little credit.

To my mind, there is something ungainly and inefficient in a system which requires four complete histories and four sets of notes upon a single case. It appears to duplicate unnecessarily a lot of work and makes the summary of any one record an arduous

REPORT OF THE PHYSICIAN-IN-CHIEF

labor. As long as the present system exists, however, it would improve the morale of the Out-Door Department staff if our observations there could be brought more directly in relation to the work of the house staff. One helpful step in the right direction would be for the Out-Door Department record to have incorporated in it as complete a letter of findings in regard to our cases sent to the wards as is now sent regularly to an outside doctor referring a case. It would also help our enthusiasm in the Out-Door Department if we were offered more of the usual courtesies that are given outside doctors referring patients to the Hospital, if we were told, for example, which of our cases were to be discussed at X-ray conference or staff ward rounds, when our patients were to be operated upon, etc.

A year ago at the commencement of my Out-Door Department service, I advocated the trial of a history form modelled on that used in the Mayo Clinic by which, at least, uniform records might be obtained. At the end of my service, and by way of conclusion, I advocate even more strongly such an experiment.

The Out-Door Department affords a unique opportunity for following a large group of cases through a period of years, and in a certain number, for observing the gradual transition from health to sickness. In other words, we are given an opportunity to obtain knowledge as to the recognition, and perhaps prevention, of disease at its incipency. We cannot make use of this opportunity unless our records are improved.

In order to study the problems related to the beginnings of disease, it is necessary carefully to collect various data on a large group of individuals over a long period of time, always starting with a carefully

recorded history, and a complete physical examination. Each person coming to the Out-Door Department should have his history taken in a uniform fashion and his physical examination carried out according to a definite plan. The personnel now changes so rapidly, and there are so many people at work, that at present no two records are exactly alike, and none are complete. The only facts uniformly appearing in our records are the patients' body weight, pulse rate and oral temperature readings, observations faithfully made and set down by our nurses. I urge the trial of a history form by which additional and more complete data will be obtained uniformly. I venture to predict that such a simple modification of our present records will do much to improve the scope and interest of our work, especially if a comprehensive summary of the studies on our cases done in the house and by the Social Service Department can be included. It is scarcely possible that the systematic study of the three or four thousand new patients who will pass through our medical Out-Door Department during the ensuing year can fail to advance medical knowledge and improve methods of medical treatment, if only we are alert enough to take full advantage of the opportunities presented.

PUBLISHED WORK

During 1927 certain lines of investigation have been pursued by the members of the staff, as shown by the following list of publications. Some of these represent work actually done in the preceding year, but, according to our custom, are noted in the Annual Report only after their completion and publication, thereby avoiding duplication in being noted once when

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the work is under way and the second time when completed and published.

CHRISTIAN, HENRY A. Speculations on Some Problems of Cardiac Failure. *South. Med. Jour.*, 20: 1083, 1927.

— Chronic Diffuse Pulmonary Emphysema. *Med. Clinics No. Am.*, 10: 1083, 1927.

— The Significance and Relationships of the Thomas Henry Simpson Memorial Institute for Medical Research. *Science*, 65: 359, 1927.

— Diuretics, Their Utility and Limitations. *Boston Med. and Surg. Jour.*, 197: 614, 1927.

— Diuretics in the Treatment of Cardiovascular and Renal Disease. *Jour. Indiana State Medical Assoc.*, 20: 422, 1927.

— Chronic Myocarditis and Myocardial Fatigue. *Weekly Roster and Medical Digest*, 23: 11, 1927.

— Kidney Disease as Described by Richard Bright in the Light of the Knowledge of a Century Later. *Annals of Med. History*, 9: 337, 1927.

CHRISTIAN, HENRY A. and O'HARE, JAMES P. Nephritis. *Text Book of Medicine*, edited by R. L. Cecil, W. B. Saunders Co., Phila., 1927, p. 883.

CHRISTIAN, HENRY A., MEANS, JAMES H. and PEABODY, F. W. Teaching of Medicine at the Harvard Medical School. *Methods and Problems of Medical Education*, 8th series, Rockefeller Foundation, N. Y., 1927.

FITZ, REGINALD. The Medical Man's Part in the Management of Acute Abdominal Lesions. *Boston Med. and Surg. Jour.*, 197: 222, 1927.

— Clinical Problems in the Management of Diabetes with a Review of Four Fatal Cases. *Med. Clinics No. Am.*, 10: 1163, 1927.

FROTHINGHAM, C. A Case of Coronary Thrombosis. *Med. Clinics No. Am.*, 10: 1357, 1927.

STURGIS, CYRUS C. The Cardiovascular System in Diseases of the Thyroid Gland. *Jour. Mich. State Med. Soc.*, 26: 1, 1927.

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- Organic Lesions in Neurotic Patients. *Med. Clinics No. Am.*, 10: 1131, 1927.
- The Opportunity of the Dispensary. *Boston Med. and Surg. Jour.*, 197: 836, 1927.
- STURGIS, CYRUS C., DRINKER, PHILIP and THOMSON, ROBERT M. Metal Fume Fever: I. Clinical Observations on the Effect of the Experimental Inhalation of Zinc Oxide by Two Apparently Normal Persons. *Jour. Industrial Hygiene*, 9: 88, 1927.
- ALTNOW, HUGO O. Changes in the Eyeground in Vascular Diseases and in Related Conditions. *Arch. Int. Med.*, 40: 757, 1927.
- ALTNOW, HUGO O. and O'HARE, JAMES P. Observations on the Action of Atropin and Calcium and Parathyroid Preparations in Arterial Hypertension. *Annals Int. Med.*, 1: 367, 1927.
- BARNETT, C. W. Tobacco Smoking as a Factor in the Production of Peptic Ulcer and Gastric Neurosis. *Boston Med. and Surg. Jour.*, 197: 457, 1927.
- BLOTNER, H. and FITZ, R. The Diazo Test in Nephritis. *Jour. Am. Med. Assoc.*, 88: 985, 1927.
- Effect of Insulin, Pituitrin and Adrenalin on the Blood Sugar Level. *Jour. Clin. Invest.*, 5: 51, 1927.
- BROWN, C. L., ALT, H. L. and LEVINE, S. A. The Effect of Diathermy on the Circulation: Some Experimental Observations. *Jour. Am. Med. Assoc.*, 89: 875, 1927.
- EMERY, EDWARD S., JR. The Significance of So-called Constipation. *Med. Clinics No. Am.*, 10: 1345, 1927.
- EMERY, EDWARD S., JR., and MONROE, R. T. Radiographic Abnormalities of the Ileo-Cecal Region with a Discussion of Their Interpretation. *Boston Med. and Surg. Jour.*, 197: 337, 1927.
- GRABFIELD, G. P. The Pathogenesis of Chronic Bronchitis and Its Treatment with Quinine Derivatives. *Boston Med. and Surg. Jour.*, 197: 979, 1927.
- The Mechanism of the Action of Iodides on the Nitrogen Metabolism. *Jour. Clin. Invest.*, 4: 323, 1927.

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- HALL, FRANCIS C. Functional Backache. *Med. Jour. and Record*, 125: 228 and 304, 1927.
- KIEFER, EVERETT D. Carcinoma of the Pancreas. *Arch. Int. Med.*, 40: 1, 1927.
- LEVINE, SAMUEL A. The Clinical Recognition of Paroxysmal Ventricular Tachycardia. *Am. Heart Jour.*, 3: 177, 1927.
- The Types and Treatment of Heart Disease. *Am. Jour. Nursing*, 27: 983, 1927.
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- MINOT, GEORGE R. and BUCKMAN, T. E. Purpura, Hemophilia and Hemorrhagic Disease of the Newborn. *Ibid.*, 950.
- MINOT, GEORGE R. and MEDEARIS, D. N. Studies on Red Blood Cell Diameter: II. In Pernicious Anemia, Before and During Marked Remission, and in Myelogenous Leukemia. *Jour. Clin. Invest.*, 3: 541, 1927.
- MINOT, GEORGE R. and MURPHY, W. P. Liver Diet in Pernicious Anemia and the Distinction between Aleucocythemic Myeloid Leukemia and Pernicious Anemia. *Med. Clin. No. Am.*, 10: 1093, 1927.
- Modern Treatment of Pernicious Anemia. *Alumni Jour. P. B. Brigham Hosp.*, 7: 17, 1927.
- A Diet Rich in Liver in the Treatment of Pernicious Anemia: Study of One Hundred and Five Cases. *Jour. Am. Med. Assoc.*, 89: 759, 1927.
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- MINOT, GEORGE R., MURPHY, WILLIAM P., COHN, E. J., STETSON, R. P., and LAWSON, H. A. The Feeding of Whole Liver or an Effective Fraction in Pernicious Anemia: The Response of the Reticulocytes (Abstract). *Trans. Assoc. Am. Phys.*, 42: 83, 1927.

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- MONROE, ROBERT T. Fistula as a Complication of Peptic Ulcer. *Am. Jour. Med. Sc.*, 174: 579, 1927.
- MURPHY, W. P., MONROE, R. T. and FITZ, R. Changes in Composition of Blood in Pernicious Anemia Treated by a Diet Rich in Liver. *Jour. Am. Med. Assoc.*, 88: 1211, 1927.
- O'HARE, JAMES P. Nephritis and Nephrosis. *Osler's Modern Medicine*, Lea and Febiger, Phila., 1927, Vol. V, p. 537.
- The Nephritides. *Ibid.*, p. 560.
- The Development of Cardio-Vascular-Renal Disease. *Boston Med. and Surg. Jour.*, 197: 126, 1927.
- Treatment of Hypertension. *Am. Heart Jour.*, 2: 510, 1927.
- Arteriosclerosis, Hypertension and Chronic Nephritis. *The Social Worker*, 4: 5, 1927.
- RIDDLE, M. C. and STURGIS, C. C. Basal Metabolism in Chronic Myelogenous Leukemia. *Arch. Int. Med.*, 39: 255, 1927.
- ROOT, H. F. and MILES, W. R. Weight and Physical Measurements After Thyroidectomy. *Arch. Int. Med.*, 39: 605, 1927.
- ROOT, H. F., JOSLIN, E. P. and WHITE, P. Diabetic Coma and Its Treatment. *Med. Clinics of No. Am.*, 10: 1281, 1927.
- TUBBS, THELMA and BELLINGER, ELIZABETH. Adjusting the Diet of the Patient with Pernicious Anemia. *Jour. Am. Dietetic Assoc.*, 3: 7, 1927.

HENRY A. CHRISTIAN,
Physician-in-Chief.

REPORT OF THE PHYSICIAN-IN-CHIEF

Summary of Medical Report

JANUARY 1, 1927, TO JANUARY 1, 1928

Total number of admissions in 1927	2,421	
Total number of medical cases remaining in wards, January 1, 1927	94	
	<u> </u>	2,515

Total number medical readmissions discharged in 1927	582	
Total number of medical new cases discharged in 1927	1,854	
	<u> </u>	2,436
Total number of medical cases remaining in the wards, January 1, 1928	79	
	<u> </u>	2,515

Results on medical cases discharged in 1927 were
as follows:

Total number discharged well	75	
Total number discharged improved	1,569	
Total number discharged unimproved	174	
Total number discharged untreated	246	
Total number transferred to Surgical Service	198	
Total number dead	174	
	<u> </u>	2,436
Total number of medical cases remaining in the wards, January 1, 1928	79	
	<u> </u>	2,515

Visiting Physicians and Surgeons

Pro Tempore

DR. FRANK BILLINGS

M.D., Northwestern Univ., 1881; M.S., *ibid.*, 1890; Sc.D., Harvard, 1915; Professor of Medicine, Northwestern Univ., 1891-98; Professor of Medicine, Rush Medical College, 1898-1905; Professor of Medicine, Univ. of Chicago, 1905-24; *Physician-in-chief pro tem.*, *P. B. B. H.*, May 15 to May 20, 1916.

DR. LEWIS A. CONNER

Ph.B., Yale Univ., 1887; M.D., Columbia Univ., 1890; Physician, New York Hospital, 1905; Professor Clinical Medicine, Cornell Univ. Med. School, 1905-16; Professor of Medicine, *ibid.*, 1916; *Physician-in-chief pro tem.*, *P. B. B. H.*, April 8 to April 15, 1923.

MR. GEORGE E. GASK

Graduate of St. Bartholomew's Hospital, London, England; Consulting Surgeon, B. E. F., receiving C.M.G. and a D.S.O.; Surgeon and Director of Surg. Unit to St. Bartholomew's Hosp.; Professor of Surgery, Univ. of London; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, March 20 to April 3, 1921.

DR. EVARTS GRAHAM

M.D., Rush Medical College, 1907; Professor of Surgery, Washington Univ., St. Louis, Mo.; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, April 26, 1925-May 3, 1925.

DR. JAMES B. HERRICK

A.B., Univ. of Mich., 1882 (Hon. A.M., *ibid.*, 1907); M.D., Rush Medical College, 1888; Interne, Cook County Hospital, 1888-89; Instructor in Medicine, Rush Medical College, 1890-93; Adjutant Professor, *ibid.*, 1894-1900; Professor, *ibid.*, 1900; Attending Physician, Presbyterian Hospital, Chicago, Illinois, 1895; *Physician-in-chief pro tem.*, *P. B. B. H.*, Feb. 15 to Feb. 21, 1924.

DR. ALBION WALTER HEWLETT

B.S., Univ. of Cal., 1895; M.D., Johns Hopkins Medical School, 1900; Professor of Internal Medicine, Univ. of Mich., 1908-16; Professor of Medicine, Leland-Stanford Jr. Univ., San Francisco, 1916-25; *Physician-in-chief pro tem.*, *P. B. B. H.*, May 1 to May 4, 1915, and Jan. 2 to Jan. 8, 1916. Died Nov. 10, 1925.

DR. CHARLES F. HOOVER

M.D., Harvard, 1892; Professor of Medicine, Western Reserve Univ., Cleveland, Ohio; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, Feb. 3 to Feb. 9, 1924.

VISITING PHYSICIANS AND SURGEONS

DR. SAMUEL W. LAMBERT

A.B., Yale, 1880; Ph.B., *ibid.*, 1882; M.D., Columbia, 1885; A.M., Yale, 1905; D.Sc., Columbia, 1921; Professor Clinical Medicine, Columbia, 1903-19; Dean, Coll. Phys. and Surgs. (Columbia), 1904-19; Attending Physician, New York Hosp., 1896-1909; Attending Physician, St. Luke's Hosp., 1906; *Physician-in-chief pro tem.*, P. B. B. H., Jan. 24 to Jan. 30, 1926.

DR. HENRY ROBERT MURRAY LANDIS

A.B., Amherst, 1894; M.D., Jefferson Med. Coll., 1897; Director, Clinical and Sociological Departments, Henry Phipps Institute, Philadelphia, Pennsylvania; *Physician-in-chief pro tem.*, P. B. B. H., Jan. 18 to Jan. 25, 1919.

DR. DEAN DEWITT LEWIS

A.B., Lake Forest Univ., 1895; M.D., Rush Med. Coll., 1899; Associate Professor of Surgery, Rush Medical College, 1919-25; Attending Surgeon, Presbyterian Hosp., Chicago; Professor of Surgery, Johns Hopkins Univ., 1925; *Surgeon-in-chief, pro tem.*, P. B. B. H., March 15 to March 24, 1920.

SIR THOMAS LEWIS

C.B.E.; F.R.C.S.; M.D., University College, London, England, 1906; Physician, University College, London, England; Physician to Staff of Med. Research Comm.; *Physician-in-chief pro tem.*, P. B. B. H., Oct. 26 to Nov. 2, 1914.

DR. WARFIELD T. LONGCOPE

A.B., Johns Hopkins Univ., 1897; M.D., Johns Hopkins Univ., 1901; Bard Professor of Medicine, Columbia Univ., New York, 1914-21; Professor of Medicine, Johns Hopkins Univ., and Physician-in-chief, Johns Hopkins Hospital, 1922; *Physician-in-chief pro tem.*, P. B. B. H., Jan. 13 to Jan. 20, 1917.

DR. WILLIAM DE B. MACNIDER

M.D., Univ. of N. C., 1903; Professor of Pharmacology, Univ. of N. C., 1905; *Physician-in-chief pro tem.*, P. B. B. H., April 13 to April 17, 1925.

DR. THOMAS McCRAE

A.B., Univ. of Toronto, 1891; M.B., *ibid.*, 1895; M.D., *ibid.*, 1903; Fellow of Biology, Univ. of Toronto, 1892-94; Associate in Medicine, Johns Hopkins Hosp., 1904-12; Associate Professor of Medicine, Johns Hopkins Univ., 1906-12; Professor of Medicine, Jefferson Med. Coll., 1912; Physician to Jefferson and Penn. Hosps.; Fellow Royal Coll. of Phys. (England); American Philosophical Society; Lieut. Col., Canadian Army Med. Corps; *Physician-in-chief pro tem.*, P. B. B. H., March 13 to March 19, 1921.

SIR D'ARCY POWER, K.B.E.

M.A., M.B., Univ. of Oxford, 1882; F.R.C.S. (England), 1883; Consulting Surgeon, St. Bartholomew's Hospital, London, England; *Surgeon-in-chief pro tem.*, P. B. B. H., April 20 to May 5, 1924.

PETER BENT BRIGHAM HOSPITAL

DR. DAVID RIESMAN

M.D., Univ. of Pa., 1892; Prof. Clin. Med., *ibid.*; Physician, Philadelphia General Hospital and University Hospital, Pa.; Clinician, Philadelphia; *Physician-in-chief pro tem.*, P. B. B. H., April 25 to May 2, 1927.

DR. EMMET RIXFORD

M.D., Cooper Medical College, San Francisco, 1891; Professor of Surgery, Leland-Stanford Jr. Univ.; *Surgeon-in-chief pro tem.*, P. B. B. H., April 25 to May 9, 1927.

DR. CLARENCE L. STARR

M.B., Univ. of Toronto; M.D., Univ. of New York; LL.D.; Professor of Surgery, Univ. of Toronto; *Surgeon-in-chief*, Toronto General Hosp.; *Surgeon-in-chief pro tem.*, P. B. B. H., March 7 to March 16, 1926.

SIR HAROLD J. STILES

Kt., cr. 1918; K.B.E., cr. 1919; M.B., C.M., F.R.C.S., Edinburgh; British Colonel, R.A.M.C.; Mem. Army Med. Advisory Board; Surgeon, Royal Edinburgh Hosp. for Sick Children, and Chalmers Hosp.; Professor of Clinical Surgery, 1919-25; Late Lecturer on Applied Anatomy, Univ. of Edinburgh; *Surgeon-in-chief pro tem.*, P. B. B. H., April 8 to April 21, 1923.

DR. WILLIAM S. THAYER

A.B., Harvard, 1885; M.D., *ibid.*, 1889; LL.D., Washington Coll., 1907; Hon. F.R.C.P.I., 1912; Brig. General, U. S. A. M. C., 1918-19; Professor of Medicine, Johns Hopkins Univ., 1919-21; Physician-in-Chief, Johns Hopkins Hosp., 1919-21; Visiting Physician, Johns Hopkins Hosp., 1921; *Physician-in-Chief pro tem.*, P. B. B. H., Nov. 14 to Nov. 21, 1913.

SIR CUTHBERT WALLACE

C.B., 1918; K.C.M.G., 1916; M.B., B.S., London; F.R.C.S., Eng.; Surgeon to St. Thomas' Hosp.; Dean, St. Thomas' Hosp. Med. School; Late Surgeon, East London Hosp. for Children; Lecturer on Surgery, St. Thomas' Hosp.; served in South Africa as Surgeon to Portland Hosp., 1900; European War, 1914-18; Maj. Gen., A. M. S.; Consulting Surgeon, B. E. F., France; *Surgeon-in-Chief pro tem.*, P. B. B. H., April 24 to May 8, 1922.

DR. ROLLIN TURNER WOODYATT

B.S., Univ. of Chicago, 1906; M.D., Rush Med. Coll., 1902; Clin. Professor of Medicine, Univ. of Chicago; Attending Physician, Presbyterian Hosp., Chicago; *Physician-in-Chief pro tem.*, P. B. B. H., Dec. 16 to Dec. 23, 1921.

Register of Present Members of the Staff

ABBREVIATIONS

P. B. B. H.—Peter Bent Brigham Hospital	M. G. H. —Massachusetts General Hospital
B. C. H. —Boston City Hospital	Harv. —Harvard University
J. H. H. —Johns Hopkins Hospital	H. O. —House Officer

ALT, HOWARD L.

B.S., Northwestern Univ., 1923; M.D., *ibid.*, 1924; H. O. in med. and surg., *ibid.*, July, 1923-July, 1925; *Asst. Res. Phys.*, P. B. B. H., July 1, 1925-Sept. 1, 1927; *Res. Phys.*, *ibid.*

BAILEY, PERCIVAL

B.S., Univ. of Chicago, 1914; Ph.D., *ibid.*, 1918; M.D., Northwestern Univ., 1918; Asst. in Embryology, Univ. of Chicago, 1914; Asst. in Anatomy, *ibid.*, 1914-15; Asst. in Anatomy, Northwestern Univ., 1915-17; Assoc. in Anat., Univ. of Chicago, 1917-18; Surg. H. O., Mercy Hosp., Chicago, 1918-19; *Asst. Res. Surg.*, P. B. B. H., April 1-Dec. 19, 1919; *Res. Phys.*, Neurol. Service, Cook County Hosp., Chicago, 1920; *Res. Phys.*, Psychopathic Hosp., Chicago, 1920; Arthur Tracy Cabot Fellow, Harv., 1920-21; *Assoc. in Surg.*, P. B. B. H., Sept. 1, 1920-July 1, 1921; Asst. Etranger à la Salpêtrière, service du Prof. Pierre Marie, 1921-22; *Jr. Assoc. in Surg.*, P. B. B. H., July, 1922-Sept., 1923; Asst. Etranger à l'hospice Sainte Anne, service du Prof. Henri Claude, 1925-26; Instr. in Surg., Harv.; *Assoc. in Surg.*, P. B. B. H.

BARKER, M. HERBERT

B.S., Univ. of Chicago, 1923; M.D., Rush. Med. College, 1925; H. O., Wesley Memorial Hosp., 1925-27; *Med. H. O.*, P. B. B. H., Jan. 1-March 1, 1927; *Asst. Res. Phys.*, *ibid.*

BARR, JOSEPH SEATON

B.S., College of Wooster, Wooster, Ohio, 1922; M.D., Harv., 1926; Stud. H. O., Huntington Mem. Hosp., 1924-25; *Surg. H. O.*, P. B. B. H., July 1, 1926-Nov. 1, 1927.

BECK, CLAUDE S.

A.B., Franklin and Marshall College, 1916; Grad. Sch., Univ. of Pittsburgh, 1916-17; M.D., Johns Hopkins, 1921; *Res. H. O.*, J. H. H., 1921-22; *Asst. Res. Surg.*, New Haven Hosp., 1922-23; Arthur Tracy Cabot Fellow, Harv., and *Assoc. in Surg.*, P. B. B. H., 1923-24; in charge Surg. Lab., Western Reserve Univ.,

PETER BENT BRIGHAM HOSPITAL

Cleveland, Ohio, 1924-25; Instr. in Surg., Western Reserve Med. School; Res. Surg., Lakeside Hosp., Cleveland, 1925-26; *Asst. Res. Surg., P. B. B. H., April 9-June, 1927*; Instr. in Surg., Western Reserve Univ. School of Med.; Asst. Surg., Lakeside Hosp.

BENNETT, GRANVILLE A.

B.S., Univ. of Iowa, 1923; M.D., *ibid.*, 1925; Surg. Interne, Iowa State Univ. Hosp., 1925-26; Clin. Asst. (Res.) Pathol., Bacteriol. and Surgery, 1926-27; *Res. Pathol., P. B. B. H.*

BIRD, CLARENCE EDWARD

A.B., Univ. of Cal., 1920; M.D., Harv., 1923; Interne, Indian Harbor Hosp., Labrador, with Grenfell Mission, 1922; *Surg. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924*; Asst. in Surg. and Pathol., Yale, 1924-25; *Asst. Res. Surg., P. B. B. H., July 1, 1925-Oct. 1, 1926*; *Res. Surg., ibid.*

BLOTNER, HARRY H.

Two yrs. pre-med. work, Tufts, 1918-20; M.D., Tufts, 1924; Gen. Interne, Eastern Maine Gen. Hosp., July 1, 1924-July 1, 1925; *Asst. Res. Phys., P. B. B. H., Dec. 8, 1925-Dec. 1, 1926*; Asst. in Med., H. M. S.; *Jr. Assoc. in Med., P. B. B. H., Dec. 1, 1926-Sept. 1, 1927*; Asst. in Med., Harv.

BOOTH, GEORGE

B.S., Allegheny Coll., 1922; M.D., Harv., 1926; *Med. H. O., P. B. B. H.*

BRADLEY, JOHN I.

A.B., Georgetown Univ., 1920; M.D., Harv., 1925; Pathol. Interne, B. C. H., 1925; *Surg. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927.*

BROWN, CHARLES LEONARD

B.S., Univ. of Oklahoma, 1919; M.D., *ibid.*, 1921; *Med. H. O., P. B. B. H., March 1, 1922-July 1, 1923*; Res. Pathol., Children's Hosp., 1923-24; Instr. in Pathol., Harv.; *Res. Pathol., P. B. B. H., July 1, 1924-Sept. 1, 1925*; Teaching Fellow in Med., Harv.; *Res. Phys., P. B. B. H., Sept. 1, 1925-Sept. 1, 1927*; Instr. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H.*

BUCKLEY RICHARD COTTER

B.S., Trinity, 1919; M.D., Yale, 1924; Res. Pathol., New Haven Hosp., 1924-27; Instr. in Pathol., Yale Medical School, 1924-27; *Surg. H. O., P. B. B. H.*

CAIRNS, HUGH WILLIAM BELL

M.B., B.S., Univ. of Adelaide, 1917; Rhodes Scholar, Oxford, 1919-20; F.R.C.S., England, 1921; War service, 1915-18; House Surg., Radcliffe Infirmary, Oxford, 1920-21; House Surg., London Hosp., 1921; Pathol. Asst., *ibid.*, 1921-22; House Phys., *ibid.*, 1922; Asst. in Surg. Unit, London Hosp., 1923; Surg. First Asst., *ibid.*, 1924-

REGISTER OF PRESENT MEMBERS OF THE STAFF

25; Asst. Surg., *ibid.*, 1926; Hunterian Prof., R. C. S., 1925-26; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1926-Sept. 15, 1927*; Asst. Surg., London Hosp., London, England.

CALHOUN, ABNER W.

A.B., Univ. of Ga., 1918; M.D., Harv., 1923; 2 mos. in tuberculosis work, Ray Brook, New York; Med. H. O., B. C. H., March 1, 1924-Nov. 15, 1925; *Asst. Res. Phys., P. B. B. H., Nov. 15, 1925-Sept. 1, 1927*; Chief Res., Grady Hosp., Atlanta, Ga.

CANNON, WALTER BRADFORD

A.B., Harv., 1896; A.M., *ibid.*, 1897; M.D., *ibid.*, 1900; S.D., Yale, 1923; L.L.D., Wittenberg, 1927; C.B. (military), 1919; D.S.M., 1922; Instr. in Zoölogy, Harv., 1899-1900; Instr. in Physiol., *ibid.*, 1900-02; Asst. Prof. Physiol., *ibid.*, 1902-06; George Higginson Prof. Physiol., *ibid.*; Fellow, Am. Acad., 1906; Mem. Am. Philos. Soc., 1908; Mem. Nat. Acad. of Sciences, 1914; Croonian Lecturer, Royal Society, London, 1918; Corr. Mem., Société de Biologie, Paris, 1919; Reale Accademia delle Scienze, Bologna, 1921; Honorary Member, Sociedad de Biologia, Buenos Aires, 1922; *Consult. Physiol., P. B. B. H.*

CHEEVER, DAVID

A.B., Harv., 1897; M.D., *ibid.*, 1901; Surg. H. O., B. C. H., 1901-03; Asst. in Anat., Harv., 1903-08; Asst. Visit. Surg., B. C. H., 1905-12; Demonstr. in Anat., Harv., 1908-13; Asst. Prof. Surg. Anat., Harv.; Chief Surg., 2d Harv. Unit, B. E. F., France, 1915-16; Assoc. Prof. of Surg., Harv.; *Surg., P. B. B. H.*

CHRISTIAN, HENRY ASBURY

A.B., and A.M., Randolph-Macon, 1895; Grad. Stud., *ibid.*, 1895-96; LL.D., *ibid.*, 1923; M.D., Johns Hopkins, 1900; A.M., Harv., 1903; Asst. Pathol., B. C. H., 1900-02; Asst. Visit. Pathol., *ibid.*, 1902-05; Asst. Visit. Pathol., Children's Hosp., Boston, 1902-05; Instr. in Pathol., Harv., 1902-05; Asst. Visit. Phys., Long Island Hosp., Boston, 1905; in charge of med. students, M. G. H., 1905-07; Instr. in Theory and Practice of Physic, Harv., 1905-07; Asst. Prof. in Theory and Practice of Physic, *ibid.*, 1907-08; Phys.-in-Chief, Carney Hosp., Boston, 1907-12; Dean, Faculty of Med. and of Med. Sch., Harv., 1908-12; Fellow, Am. Acad.; Corr. Mem., Wiener Gesellschaft. f. innere Medizin, etc.; formerly Major, M. R. C., U. S. Army (on leave of absence Oct. 1, 1919-Oct. 1, 1920, as Chairman, Div. of Med. Sciences, Nat'l Research Council, Washington, D. C.); Hersey Prof., Theory and Practice of Physic, Harv.; *Phys.-in-Chief, P. B. B. H.*

CHRISTIAN, JR., THOMAS D.

M.D., Harv., 1923; Med. H. O., B. C. H.; *Asst. Res. Phys., P. B. B. H., Jan. 1-Nov. 15, 1925*; *Jr. Assoc. in Med., ibid., Nov. 15, 1925-Oct. 1, 1926*; in practice, Greensboro, N. C.

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COLBY, FLETCHER H.

S.B., Dartmouth, 1914; M.D., Harv., 1918; served with B. C. H. unit, Evacuation Hosp. No. 110, during war; Surg. Interne, M. G. H., 1919-21; Ludlow-Jute Co., Ltd., Calcutta, India, 1921-23; *Asst. Res. Surg., P. B. B. H., Jan. 1, 1924-Jan. 1, 1925; Jr. Assoc. in Urol., ibid., Jan. 22, 1925-Oct. 1, 1926; Act. Assoc. in Surg., ibid., July-Sept., 1927; Asst. Urologist, M. G. H.; Asst. in G. U. Surg., Harv.*

COULTER, A. BARKLIE

A.B., Catholic Univ. of America, 1918; M.D., Johns Hopkins, 1924; Asst., Trudeau Sanatorium, Saranac, 1924-25; Asst. in Med., Royal Victoria Hosp., Montreal, 1925-26; *Jr. Assoc. in Med., P. B. B. H., Oct. 1, 1926-Sept. 1, 1927.*

CUSHING, HARVEY

A.B., Yale, 1891; A.M. and M.D., Harv., 1895; Hon. F. R. C. S., London, 1913, Ireland, 1918, and Edinburgh, 1927; Hon. A. M., Yale, 1913; Hon. M.D., Queen's Univ., Bristol, 1918; D.Sc., Washington Univ., 1915, and Yale, 1919; LL.D., Western Reserve Univ., 1919, Cambridge, 1920, Glasgow, 1927, and Edinburgh, 1927; House Pupil, M. G. H., 1895-96; Res. Surg., J. H. H., 1896-1900; successively Asst. Instr. and Assoc. Prof. in Surg., Johns Hopkins, 1898-1912; Fellow, Am. Acad., 1914; Mem. Wash. Acad. Sciences, 1916; Nat'l Acad. Sciences, 1917; Director U. S. Army Base Hosp. No. 5, 1916-19; Col., M.C., U. S. Army; Companion of the Bath; D.S.M.; Offic. Leg. d'Honneur; Stud., St. Bartholomew's Hosp., 1922; Mickle Fellow, Univ. of Toronto, 1922; Cameron Prize, Univ. of Edinburgh, 1924; Macewen Lecturer, Univ. of Glasgow, 1927; Moseley Prof. of Surg., Harv.; *Surg.-in-Chief, P. B. B. H.*

DAY, HILBERT FRANCIS

Ph.B., Yale, 1901; M.D., Harv., 1905; Surg. H. O., B. C. H., 1905-07; House Phys., Boston Lying-in-Hosp., 1907-08; 3rd Asst. Visit. Surg., B. C. H. (Gynecol. Dept.), 1908-09; 4th Asst. Visit. Surg., B. C. H., 1909; District Phys., Boston Disp., 1909-12; Asst. to Surgs., Boston Disp., 1911-12; Surg., Maverick Disp., East Boston, 1913-14; Asst. Surg., Boston Disp., 1912-14; Surg., *ibid.*, 1914-19; 1st Asst. Surg., Beth Israel Hosp., 1917-18; Asst. in Surg., Harv., 1919-21; Instr. in Surg., *ibid.*; Surg.-in-Chief, Boston Disp.; Visiting Surg., Cambridge Hosp.; *Assoc. in Surg., P. B. B. H.*

DAYTON, THEODORE READ

A.B., Amherst, 1916; M.D., Harv., 1925; *Surg. H. O., P. B. B. H., March 1, 1926-July 1, 1927.*

DENNY, GEORGE PARKMAN

A.B., Harv., 1909; M.D., *ibid.*, 1913; *Med. H. O., P. B. B. H., June 1, 1913-July 1, 1914; Vol., Lab. of Physiol. Research, Johns Hopkins, 1914-15; Capt., M. C., U. S. Army; Alumni Asst. in Med., Harv., 1915-16; Phys. to Med. Students, ibid.; Director of Scholar-*

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ships, *ibid.*; Attend. Phys., Channing Home, Boston; Assoc. Chief, Med. Dept., Boston Disp.; *Assoc. in Med., P. B. B. H.*

DYKE, CORNELIUS

B.S., Univ. of Iowa, 1926; M.D., *ibid.*, 1926; Interne, Chelsea Naval Hosp., 1926-27; *H. O., Roent., P. B. B. H.*

EMERY, JR., EDWARD STANLEY

A.B., Harv., 1916; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., Nov. 1, 1920-March 1, 1922; H. O. X-ray Dept., ibid., July 1, 1922-July 1, 1923; Stud. in Clin. of Dr. Sippy, Presbyterian Hosp., Chicago, 1923-24; Asst. in Med., Harv.; Phys. to Boston Disp.; Jr. Assoc. in Med., P. B. B. H., April 24, 1924-May 10, 1926; Assoc. in Med., ibid.*

FARBER, SIDNEY

B.S., Univ. of Buffalo, 1923; M.D., Harv., 1927; *H. O., Pathol., P. B. B. H., Jan. 1-Sept. 1, 1927.*

FARBER, WILLIAM P.

A.B., Univ. of Cal., 1922; M.A., *ibid.*, 1923; M.D., Harv., 1927; *Surg. H. O., P. B. B. H.*

FETNER, L. M.

M.D., Med. Coll. of Va., 1915; in practice, Charlotte, N. C.; *H. O. Roentgenology, P. B. B. H., Oct. 1, 1926-Oct. 1, 1927; Asst. Res. Roent., ibid.*

FITZ, REGINALD

A.B., Harv., 1906; M.D., *ibid.*, 1909; Med. House Pupil, M. G. H., 1910-11; Vol. Asst. in Pharmacol. and in Med. Clinic, J. H. H., 1911-12; *Sr. Med. H. O., P. B. B. H., Nov. 1, 1912-July 1, 1913; Asst. Res. Phys., ibid., July 1, 1913-Sept. 1, 1915 (granted leave of absence to Dec. 31, 1916); Fellow in Physiol., Harv., 1914-15; Asst. Res. Phys., Rockefeller Inst. Hosp., New York City; Major, M. C., U. S. Army, 1917-19; Assoc. in Med. and Act. Res. Phys., East Med. Serv., M. G. H., 1919-20; Mayo Clinic and Mayo Foundation, 1920-22; Assoc. Prof. of Med., Harv.; *Phys., P. B. B. H.**

FITZHUGH, GREENE S.

B.S., Univ. of Illinois, 1921; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*

FLYNN, JOHN MOLLOY

A.B., Boston College, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*

FOLIN, OTTO

S.B., Univ. of Minn., 1892; Ph.D., Univ. of Chicago, 1898; Sc.D., Washington Univ., 1915; Sc.D., Univ. of Chicago, 1916; Hon. M.D., Lund, 1918; Mem. Nat. Acad., 1916; Stud., Univs. of Sweden and Germany, 1897 and 1898; Asst. Prof. of Physiol. Chem., Univ. of W. Va., 1899-1900; Research Chem., McLean Hosp., Waverley,

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1900-08; Assoc. Prof. of Biol. Chem., Harv., 1907-09; Hamilton Kuhn Prof. of Biol. Chem., *ibid.*; Chem., M. G. H.; *Consult. Chem., P. B. B. H.*

FORT, JR., LYNN

B.S., Univ. of Ga., 1921; M.D., Emory Univ., 1925; Interne, Cincinnati Gen. Hosp., July, 1925-Feb., 1926; *Surg. H. O., P. B. B. H., March 1, 1926-July 1, 1927.*

FROTHINGHAM, CHANNING

A.B., Harv., 1902; M.D., *ibid.*, 1906; Med. H. O., B. C. H., 1906-07; Asst. Visit. Phys., Carney Hosp., O. P. D., Boston, 1908-12; Sec'y, Faculty of Med., Harv., 1908-13; Asst. in Theory and Practice of Physic, *ibid.*, 1908-12; Instr. in Med., *ibid.*, 1913-22; Lieut. Col., M. C., U. S. Army, June 1, 1917-Dec. 5, 1918; Asst. Prof. of Med., Harv.; Chairman, Dept. of Med., *ibid.*; *Physician, P. B. B. H.*

FULTON, MARSHALL N.

Ph.B., Brown Univ., 1920; Rhodes Scholar, Oxford; A.B., Oxford Univ., 1922; M.D., Johns Hopkins, 1925; Vol. Asst. in Pathol., Johns Hopkins, Sept., 1925-Feb., 1926; *Med. H. O., P. B. B. H., March 1, 1926-July 1, 1927; Asst. Res. Phys., ibid.*

GERMAN, WILLIAM J.

A.B., Univ. of Calif., 1922; M.A., *ibid.*, 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927; Fellow in Plastic Surg., Johns Hopkins.*

GRABFIELD, GUSTAVE PHILIP

A.B., Williams, 1912; M.D., Harv., 1915; Teaching Fellow, Dept. of Pharmacol., *ibid.*, 1915-16; *Med. H. O., P. B. B. H., March 1, 1916-June 17, 1917; Capt., M. C., U. S. Army, 1917-19; Asst. in Roent., Univ. of Mich. Hosp., 1919-20; Instr. in Pharm., Harv., 1920-21; Asst. in Pharm., ibid., 1921-22; Instr. in Pharm. and Asst. in Med., ibid.; Jr. Assoc. in Med., P. B. B. H., July 1, 1922-Nov. 12, 1925; Assoc. in Med., ibid.*

GRAHAM, WILLIAM RANDOLPH

M.D., Med. Coll. of Va., 1925; Interne, Johnston-Willis Hosp., Richmond, Va., 1925-26; *Jr. Assoc. in Med., P. B. B. H.*

GUNDERSEN, TRYGVE

M.D., Harv., 1926; *Surg. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928.*

HAIGHT, L. CAMERON

A.B., Univ. of Calif., 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928.*

HALL, FRANCIS C.

Litt.B., Princeton, 1913; M.D., Harv., 1917; H. O., M. G. H., 1918; M.C., U. S. Army, 1918-19; Asst. Visit. Phys. and Visit. Phys. to O. P. D., M. G. H., 1920-22; *Assoc. in Med., P. B. B. H.*

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HIGBEE, DANIEL RIGGS

A.B., Col. Coll., 1920; M.D., Harv., 1923; Med. H. O., M. G. H., March, 1924-Nov., 1925; *Surg. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927.*

HOMANS, JOHN

A.B., Harv., 1899; M.D., *ibid.*, 1903; House Pupil, M. G. H., 1903-04; Asst. in Hunterian Lab., Johns Hopkins, 1908-09; Vol. Asst. Surg., Children's Hosp., Boston, 1909-10; Surg., M. G. H., O. P. D., 1910-12; Asst. in Surg., Harv., 1910-13; Surg., Boston Dispensary, 1913-14; Assoc. in Surg., Harv., 1914-15; Major, M. C., U. S. Army, 1918-19; Instr. in Surg., Harv.; *Surg., P. B. B. H.*

HORRAX, GILBERT

A.B., Williams, 1909; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914*; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv., 1914-15; *Asst. Res. Surg., P. B. B. H., 1915-16*; Res. Surg., M. G. H., 1916-17; Major, M. C., U. S. Army, 1917-19; Instr. in Surg. and Chairman, Dept. of Surg., Harv.; Neurol. Surg., Children's Hosp., Boston; Consult. Neurol. Surg., N. E. Deaconess Hosp.; *Assoc. in Neurol. Surg., P. B. B. H., Oct., 1919-March, 1928*; *Sr. Assoc. in Neurol. Surg., ibid.*

HOUCK, GEORGE H.

A.B., Univ. of Oregon, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*

HOWLAND, JOSEPH BRIGGS

M.D., Harv., 1896; Surg. House Pupil, M. G. H., 1896-97; Asst. Phys., State Hosp., Tewksbury, Massachusetts, 1898-1901; Asst. Supt., *ibid.*, 1901-02; Supt., State Colony for the Insane, Gardner, Massachusetts, 1902-07; Asst. Res. Phys., M. G. H., 1907-17; Asst. Administrator, *ibid.*, 1908-17; Act. Administrator and Res. Phys., *ibid.*, 1917-19; Pres., American Hosp. Assoc., 1919-20; Mem. Mass. State Bd. of Reg. of Nurses, 1919-24; Pres., N. E. Hosp. Assoc., 1921-22; Trustee, *ibid.*; Lecturer, Hosp. Adm., Harv.; *Supt., P. B. B. H.*

HOYT, LYMAN HOWARD

B.S., Univ. of Iowa; M.D., *ibid.*, 1925; Interne, Univ. Hosp., Iowa City, 1926-27; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1926-Nov. 1, 1927*; *Jr. Assoc. in Med., ibid.*

HUGGINS, HARRISON D.

Univ. of Oregon Med. School, 2 yrs.; M.D., Harv., 1926; Substitute H. O., House of Good Samaritan; *Med. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928.*

INGRAHAM, FRANC DOUGLAS

A.B., Harv., 1922; M.D., *ibid.*, 1925; *Surg. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926*; Fellow in Surg., Johns Hopkins Univ., Nov. 1, 1926-Sept. 1, 1927; *Asst. Res. Surg., P. B. B. H.*

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KENT, HAROLD A.

H.D.S., 1919; Assoc. to Dr. Miner, Prof. of Oral Surg. and Dean, H. D. S.; Dental Surg., Forsyth Dental Infirmary; Instr. Oral Surg., H. D. S.; *Dental Surg., P. B. B. H.*

KIRK, ESLEY J.

M.D., Univ. of Nebraska, 1926; H. O., Douglas Co. Hosp., Omaha, Nebraska, 1926-27; *Asst. Res. Phys., P. B. B. H.*

LEVINE, SAMUEL ALBERT

A.B., Harv., 1911; M.D., *ibid.*, 1914; *Assoc. in Med., P. B. B. H., July 1, 1914-July 1, 1915; Med. H. O., ibid., July 1, 1915-Nov. 1, 1916; Moseley Travelling Fellow, Harv., 1916-17; Asst., Rockefeller Inst. Hosp., New York, 1916-17; Capt., M. C., U. S. Army, 1917-19; Instr. in Med., Harv.; Consult. Phys., Boston Psychopathic Hosp., 1921-24; Phys. to Boston Dispensary, 1924-26; *Assoc. in Med., P. B. B. H., Aug., 1919-March, 1928; Sr. Assoc. in Med., ibid.**

LEWIS, JR., WILLIAM H.

A.B., Harv., 1922; M.D., *ibid.*, 1926; Interne, Allegheny Gen. Hosp., Pittsburgh, Pa., July 1, 1926-July 1, 1927; *Med. H. O., P. B. B. H., July 1, 1927-March 1, 1928.*

MACMILLAN, STUART FORBES

B.S., Union College, Schenectady, New York, 1920; M.D., Albany Med. College, 1925; Interne, Albany Hosp., 1925-26; *Pathol. H. O., P. B. B. H., July 1, 1926-July 1, 1927.*

MACPHERSON, DONALD JOHN

B.S., Univ. of Rochester, 1911; M.D., Harv., 1915; *Med. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916; Asst. Res. Phys., ibid., Nov., 1916-June 22, 1917; Capt., M. C., U. S. Army, 1917-19; Assoc. in Med., P. B. B. H.*

MANN, ALBERT HOWELL

M. D., Tulane Univ., 1926; *Med. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927.*

MARLOW, JR., FRANK WILLIAM

B.S., Hamilton, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*

MASON, B. HENRY

M.D., Bowdoin, 1907; Gen. Internship, Maine Gen. Hosp., 1907-08; Asst. Phys., State Asylum, Worcester, Aug., 1908-Nov., 1913; in practice, Portland, Maine, 1913-14; Asst. Phys., Worcester State Hosp., Feb., 1914-May, 1914; Asst. Supt., *ibid.*, May, 1914-June 18, 1918; Act. Supt., *ibid.*, June 18, 1918-April 1, 1921; Neuro-Psychiatrist, Advisory Board A and B, Worcester, Massachusetts, during draft; Asst. Director, Psychopathic Hosp., Ann Arbor, Michigan, April, 1921-Jan., 1923; Neuro-Psychiatrist, U. S. V. B.; Instr. in Psychiatry, Univ. of Mich. Med. School, 1921-23; *First Asst.*

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Supt., P. B. B. H., Jan. 8, 1923-Dec. 1, 1927; Supt., Waterbury Hosp., Waterbury, Connecticut.

MASSEE, JOSEPH C.

B.S., John B. Stetson Univ., 1922; M.D., Harv., 1925; *Med. H. O., P. B. B. H., Nov. 1, 1925-March 1, 1927.*

MCLEAN, ARTHUR JOHN

A.B., Reed Coll., Portland, Oregon, 1921; M.D., Johns Hopkins, 1925; *Surg. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926; Assoc. in Surg., ibid., Jan. 10-Sept. 23, 1927; Arthur Tracy Cabot Fellow, Harv., 1926-27; Asst. Res. Surg., P. B. B. H.*

MEAGHER, RICHARD

M.D., Cornell, 1927; *Pathol. H. O., P. B. B. H., Sept. 1, 1927-Jan. 1, 1928; Surg. H. O., ibid.*

MENARD, OLIVER J.

B.S., Colgate, 1922; M.D., Jefferson Med. College, 1926; Interne, Rochester General Hosp., July 1, 1926-July 1, 1927; Asst. Clin. Phys., Rome State School, July 1, 1927-Oct. 15, 1927; *Med. H. O., P. B. B. H.*

MINOT, GEORGE R.

A.B., Harv., 1908; M.D., *ibid.*, 1912; *Med. H. O., East Med. Serv., M. G. H., July, 1912-Dec., 1913; Asst. Res. Phys., Johns Hopkins, 1913-14; Asst. in Med., Johns Hopkins, 1914-15; Special Research Worker, Johns Hopkins, 1914-15; Asst. in Med., Harv., 1915-18; Asst. in Med., M. G. H., 1915-18; Asst. in Chem., Harv., 1915-16; Dalton Scholar, M. G. H., 1916-20; Visit. Phys., St. Luke's Convalescent Home, Boston, 1916-18; Assoc. in Med., M. G. H., 1918-23; Asst. Consult. Phys., Huntington Mem. Hosp., 1917-19; Phys., *ibid.*, 1919-23; Contract Surg., U. S. A., Sept., 1917, and Sept., 15-Nov. 10, 1918; Consult. Phys., Mass. Eye and Ear Infirmary, 1922-24; Phys. to Special Clinic, M. G. H., 1923-25; Asst. Prof. of Med., Harv.; Clin. Prof. of Med., *ibid.*; Phys. and Chief of Med. Labs., Huntington Mem. Hosp.; Special Consult. in Diseases of the Blood, M. G. H.; *Assoc. in Med., P. B. B. H., Feb. 12, 1925-March 8, 1928; Consult. Phys., ibid.**

MONROE, ROBERT THORNHILL

A.B., Univ. of Mich., 1918; M.D., *ibid.*, 1924; *Med. H. O., P. B. B. H., July 1, 1924-Nov. 1, 1925; Asst. Res. Phys., ibid., Nov. 1, 1925-Sept. 1, 1926; Asst. in Med., Harv.; Jr. Assoc. in Med., P. B. B. H.*

MUNTER, EDGAR J.

M.D., Univ. of Calif., 1926; Interne, Med. and Surg., Univ. Hosp., San Francisco, 1925-26; Asst. Res. in Med., *ibid.*, 1926-27; *Asst. Res. Phys., P. B. B. H.*

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MURPHY, WILLIAM P.

A.B., Univ. of Ore., 1914; M.D., Harv., 1922, as of 1920; H. O., R. I. Hosp., 1920-22; *Asst. Res. Phys., P. B. B. H.*, 1922-23; Proctor Research Fellow, Harv.; Instr. in Med., *ibid.*; *Jr. Assoc. in Med., P. B. B. H.*, July 10, 1923-May 10, 1926; *Assoc. in Med., ibid.*

NEWTON, FRANCIS CHANDLER

A.B., Amherst, 1915; M.D., Harv., 1919; *Surg. H. O., P. B. B. H.*, March 15, 1919-July 1, 1920; *Asst. Res. Surg., ibid.*, July 1, 1920-Sept. 1, 1921; *Res. Surg., ibid.*, Sept. 1, 1921-July 1, 1923; *Jr. Assoc. in Surg., ibid.*, July 1-Sept. 15, 1923; Asst. in Surg., Harv., 1920-23; Moseley Trav. Fellow, *ibid.*, 1923-24; Vol. Asst., Phys. Inst., Berne, Switzerland, 1923-24; Instr. in Surg., Harv.; *Assoc. in Surg., P. B. B. H.*, June 15, 1924-March 8, 1928; *Sr. Assoc. in Surg., ibid.*

O'HARE, JAMES PATRICK

A.B., Harv., 1908; M.D., *ibid.*, 1911; Med. H. O., B. C. H., So. Dept., 1911; Med. H. O., Carney Hosp., Boston, 1912-13; Fellow in Med., Harv., 1913-15; Asst. Visit. Phys., Carney Hosp., 1913-15; Asst. Visit. Phys., B. C. H., 1915-17; Asst. in Med., Harv., 1915-18; *Assoc. in Med., P. B. B. H.*, July 1, 1915-Aug. 1, 1917; *Act. Phys., ibid.*, Aug. 1, 1917-Feb. 1, 1918; *Assoc. in Med., ibid.*, Feb. 1-April 1, 1918; *Act. Phys., ibid.*, April 1, 1918-Jan. 1, 1919; *Assoc. in Med., ibid.*, Jan. 1, 1919-March 8, 1928; Instr. in Med., Harv.; *Sr. Assoc. in Med., P. B. B. H.*

ORMOND, JR., ALFRED CURTIS

A.B., Davidson, 1922; M.D., Harv., 1927; *Surg. H. O., P. B. B. H.*

OUGHTERSON, ASHLEY W.

M.D., Harv., 1924; *Pathol. H. O., P. B. B. H.*, Jan. 1, 1924-Jan. 1, 1925; *Surg. H. O.*, New York Hosp., Jan. 1, 1925-Jan. 1, 1927; *Res. Surg.*, 1st Surg. Div., Bellevue Hosp., New York, Jan. 1, 1927-July 1, 1927; *Asst. Res. Surg., P. B. B. H.*

PILCHER, COBB

M.D., Vanderbilt University, 1927; *Surg. H. O., P. B. B. H.*

PINKERTON, HENRY

S.B., M. I. T., 1918; M.D., Harv., 1924; *Pathol. H. O., P. B. B. H.*, July 1, 1924-July 1, 1925; *Res. Pathol.*, Children's Hosp., Boston, July, 1925-July, 1926; *Res. Pathol., P. B. B. H.*, Sept. 1, 1926-Sept. 1, 1927.

POTTER, WILLIAM HENRY

A.B., Harv., 1878; D.M.D., *ibid.*, 1885; A.M., Hon., *ibid.*, 1927; Demonstr. in Operative Dentistry, Harv., 1887-88; Clin. Lecturer, *ibid.*, 1890-96; Lecturer, *ibid.*, 1896-1900; Asst. Prof., *ibid.*, 1900-04; Prof., Operative Dentistry, *ibid.*, 1904-1927; Prof. Emeritus, *ibid.*, 1927; Dental Surgeon, "Ambulance American Hospital" at

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Neuilly, France, 1914-15; 1st Lieut., Major, and Lieut. Col., Dental Corps, U. S. A., 1917-19, A. E. F.; Member, U. S. A. Base Hosp. No. 5, A. E. F.; Instr., Dental Dept., U. S. A. Sanitary School, Langres, 1918-19; *Consulting Dental Surg., P. B. B. H.*

POTTS, JR., WILLIAM HENRY

A.B., Univ. of Texas, 1922; M.D., Harv., 1926; *Med. H. O., P. B. B. H., March 1, 1926-July 1, 1927.*

POWERS, JOHN HOWARD

A.B., Bates, 1919; B.A., Oxon, 1923; M.D., Harv., 1925; Surg. H. O., Lakeside Hosp., Cleveland, Ohio, 1925-26; *Asst. Res. Surg., P. B. B. H., Oct. 15, 1926-Sept. 15, 1927*; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv.; *Assoc. in Surg., P. B. B. H.*

PUTNAM, TRACY JACKSON

A.B., Harv., 1915; M.D., *ibid.*, 1920; Asst. Res. Pathol., J. H. H., 1920-21; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1923-Oct. 1, 1924*; Moseley Travelling Fellow, Harv., 1925; Arthur Tracy Cabot Fellow, *ibid.*, 1925-26; *Assoc. in Surg., P. B. B. H.*

QUINBY, WILLIAM CARTER

A.B., Harv., 1899; M.D., *ibid.*, 1902; House Pupil, M. G. H., 1902-03; Asst. G. U. Surg., Boston Disp., 1907-09; Asst. Surg., N. E. Baptist Hosp., Boston, 1908-14; in charge of Experimental Surg., Brady Clin., J. H. H., 1914-16; Assoc. in Urol., *ibid.*, 1915-16; Clin. Prof., G. U. Surg., Harv.; *Urol. Surg., P. B. B. H.*

READ, JAMES S.

B.A., Vanderbilt Univ., 1921; M.D., *ibid.*, 1924; Interne, Louisville City Hosp., 1924-26; *Asst. Res. Phys., P. B. B. H., July 1, 1926-July 1, 1927.*

RICHARDS, LYMAN G.

A.B., Harv., 1916; M.D., *ibid.*, 1919; in Smyrna with Near East Relief, 1919; Surg. H. O., St. Luke's Hosp., New York, 1920-22; Mass. Eye and Ear Infirmary, Ear, Nose and Throat Serv., 1922-24; Chief in Otolaryngology, Children's Hosp., Boston; Assoc. in Otolaryngology, New England Deaconess Hosp.; Consultant in Bronchoscopy, Union Hosp., Fall River; Permanent Staff, Baptist Hosp., Boston; *Assoc. in Otolaryngology, P. B. B. H.*

RIDDLE, MATTHEW C.

B.A., Reed College, 1917; M.A., Univ. of Oregon, 1922; M.D., Harv., 1926; 4 mos. service, Huntington Mem. Hosp., March-June, 1926; *Med. H. O., P. B. B. H., Nov. 1 1926-March 1, 1928.*

ROOT, HOWARD FRANK

A.B., Harv., 1913; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., Feb. 13, 1919-Jan. 1, 1920*; Clin. Lab., J. H. H., 1920; Asst. Phys., N. E. Deaconess Hosp.; *Assoc. in Med., P. B. B. H.*

PETER BENT BRIGHAM HOSPITAL

SAGEBIEL, JAMES LAMBERT

B.S., Denison Univ., 1924; M.D., Harv., 1927; *Surg. H. O., P. B. B. H.*

SCARFF, JOHN E.

B.S., Princeton, 1920; M.D., Johns Hopkins, 1924; experimental lab. work, *ibid.*, 1924-25; H. O., *ibid.*, 1925-27; *Surg. H. O., P. B. B. H.*

SCHMITZ, HENRY L.

B.S., Univ. of Chicago, 1920; M.S., Univ. of Wis., 1922; Ph.D., Univ. of Wis., 1924; M.D., Harv., 1926; Med. H. O., Huntington Mem. Hosp., Boston, July, 1926-Dec., 1926; *Med. H. O., P. B. B. H.*

SCHNECK, ROBERT J.

M.D., Harv., 1925; Interne, St. Luke's Hosp., Chicago, 1925-26; *Med. H. O., P. B. B. H., July 1, 1926-Nov. 1, 1927; Asst. Res. Phys., ibid.*

SCHOLEFIELD, BERNARD GRAHAM

B.A., Oxford, 1921; M.A., B.M., B.C.H., *ibid.*, 1923; M.D., Oxford, 1927; Stud., St. Peter's College, Westminster, London, 1912-17; 2nd Lieut., Royal Engineers, 1917-19; Student, Guy's Hosp., London, 1922-23; House Surgeon, *ibid.*, 1924-25; Commonwealth Fund Fellow, Johns Hopkins Univ., 1925-27; *Asst. Res. Surg., P. B. B. H., Aug. 1, 1926-July 10, 1927; Member of Staff, Guy's Hosp. and St. Peter's Hosp.*

SCHULZ, REUBEN Z.

A.B., Central Wesleyan Coll., Warrenton, Missouri, 1921; M.A., Univ. of Nebraska, 1926; M.D., *ibid.*, 1927; Fellow and Asst., Dept. of Anat., *ibid.*, 1924-25; Asst. in Bact. and Immunology, *ibid.*, 1925-26; *Pathol. H. O., P. B. B. H.*

SOSMAN, MERRILL C.

A.B., Univ. of Wis., 1913; M.D., Johns Hopkins, 1917; Res. Phys., Soldiers' Home Hosp., Washington, D. C., 1917-18; entered U. S. A., M. C.; Army Med. Sch., X-ray Dept., Walter Reed Hosp., 1919-21; X-ray Dept., M. G. H., 1921; Consult. Roent., C. P. Huntington Mem. Hosp.; Consult. Roent., Peabody Home for Crippled Children; Assoc. in Roent., Children's Hosp.; *Roentgenologist, P. B. B. H.*

STEVENS, WILLIAM B.

M.D., Harv., 1924; Asst. Res., Thorndike Lab., B. C. H., 1924-25; Interne, 4th Med. Service, *ibid.*, 1925-26; *Asst. Res. Phys., P. B. B. H., Dec. 1, 1926-Aug. 22, 1927.*

STURGIS, CYRUS CRESSEY

B.S., Univ. of Wash., 1913; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H., Oct. 15, 1917-Aug. 22, 1918; 1st Lieut., M. C., U. S. Army, 1918-19; Asst. Res. Phys., P. B. B. H., Aug. 25, 1919-*

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April 15, 1920; Res. Phys., ibid., April 15, 1920-Aug. 1, 1922; Assoc. in Med., ibid., Aug. 1, 1922-Sept. 1, 1925; Fac. Instr. in Med., Harv., Sept. 1, 1922-Sept. 1, 1925; Asst. Prof. Med., ibid., Sept. 1, 1925; Assoc. Phys., C. P. Huntington Hosp., Sept. 1, 1925-Jan. 1, 1926; Physician, P. B. B. H., Sept. 1, 1925-July 1, 1927; Director, Thos. Henry Simpson Mem. Inst. for Med. Research; Prof. Int. Med., Univ. of Mich. Sch. of Med.

TAYLOR, ARTHUR C.

B.A., Univ. of Wisconsin, 1921; M.A., *ibid.*, 1924; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*

VERMOOTEN, VINCENT

A.B., Univ. of Capetown, South Africa; A.M., *ibid.*, 1920; M.D., Johns Hopkins, 1923; Sr. Demonstr. in Anat., Univ. of Capetown, 1918-20; Res. H. O., Johns Hopkins, 1923-24; Asst. Res. Surg., New Haven Hosp., 1924-27; Asst. in Surg., Yale, 1924-27; Asst. in G. U. Surg., Harv.; *Asst. Res. Surg., P. B. B. H.*

VOGT, EDWARD C.

M.D., Univ. of Iowa, 1923; Interne, St. Vincent's Hosp., Toledo, Ohio, 1923-24; *H. O., X-ray Dept., P. B. B. H., Sept. 12, 1924-March 1, 1925; Asst. Res. in Roent., ibid., March 1-Sept., 1925; Res. in Roent., New Haven Hosp., Oct., 1925-July, 1926; Roent., Children's Hosp., Boston; Assoc. in Roent., P. B. B. H.*

WALKER, ISAAC CHANDLER

A.B., Johns Hopkins, 1905; M.D., *ibid.*, 1909; Grad. Stud., Lab. of Theory and Practice of Physic, Harv., 1910-11; Med. H. O., Carney Hosp., Boston, 1910-11; Lect. on Clin. Microscopy and Phys. Diag., Univ. of Iowa, 1911-12; Stud. of Prof. Morawitz, Freiburg, Germany, 1912; Research, Rockefeller Hosp., New York, 1912; *Sr. Med. H. O., P. B. B. H., Nov. 1, 1912-March 1, 1913; Asst. Res. Phys., ibid., March 1, 1913-March 1, 1914; Act. Res. Phys., ibid., March 1, 1914-Jan. 1, 1915; Asst. Res. Phys., ibid., Jan. 1, 1915-March 1, 1915 (granted leave of absence from March 1, 1915-Sept. 1, 1915); Med. Chief, Hosp. Ab. 32^{bis} Passy Yonne, France, 1915; Asst. in Pharmacol., Harv.; Alumni Asst. in Med., *ibid.*; *Act. Phys., P. B. B. H., Aug. 1, 1917-Feb. 1, 1918, and April 1, 1918-Dec. 16, 1918; Asst. Prof. of Med., Harv., 1918-19; Assoc. in Med., P. B. B. H.**

WHEELER, BANCROFT

A.B., Harv., 1920; M.D., *ibid.*, 1924; Surg. H. O., Mass. General Hosp., Sept., 1924-June, 1926; Urol. H. O., Roosevelt Hosp., Jan.-June, 1927; *Asst. Res. Surg., P. B. B. H.*

WHITAKER, LESTER R.

M.D., Harv., 1923; Surg. H. O., New Haven Hosp., 1923-24; *Assoc. in Surg., P. B. B. H., July 11, 1924-Sept. 1, 1925; Arthur Tracy Cabot Fellow, Harv., 1924-25; Asst. Res. Surg., P. B. B. H., Sept.*

PETER BENT BRIGHAM HOSPITAL

1, 1925-July 1, 1927; Nat. Research Council Fellow in Surg., Univ. of Rochester Sch. of Medicine and Dentistry.

WOLBACH, SIMEON BURT

Stud., Harv., 2 yrs.; M.D., *ibid.*, 1903; 2nd Asst. in Pathol., B. C. H., 1903-04; 1st Asst. in Pathol., *ibid.*, 1904-05; 2nd Asst. Visit. Pathol., *ibid.*, 1905-08; Pathol., Long Island Hosp., Boston, 1905-08; Pathol., Boston Floating Hosp., 1905-08; Pathol., Mass. Infants' Asylum, 1905-08; Asst. in Pathol., Harv., 1905-06; Instr. in Pathol., *ibid.*, 1906-08; Adjunct Prof. of Pathol. and Bacteriol., Albany Med. Coll., 1908-09; Director, Bender Hygienic Lab., Albany, New York, 1908-09; Pathol., Albany City Hosp., 1908-09; Pathol., St. Peter's Hosp., Albany, 1908-09; Pathol., St. Margaret's House, Albany, 1908-09; Lecturer in Pathol., McGill Univ., 1909-11; Director, Histol. Lab., *ibid.*, 1909-11; Director, Montreal Gen. Hosp. Lab., 1909-11; Asst. Prof. of Bacteriol., Harv., 1910-14; Assoc. Prof. of Bacteriol., *ibid.*, 1914-16; Pathol., Children's Hosp., Boston; Fellow, Am. Acad. of Arts and Sciences, 1914; Visit. Pathol., Children's Hosp., Boston, 1915; Corr. Mem., Société de Pathologie Exotique, Paris; Commander, Order of Polonia Restituta; Shattuck Prof. Pathol. Anat., Harv.; *Pathol., P. B. B. H. (on leave of absence Jan. 1-Aug. 1, 1920, in charge of Typhus Research Hosp., Poland).*

WOOD, NATHANIEL KNIGHT

A.B., Harv., 1897; M.D., *ibid.*, 1901; H. O., B. C. H., 1902-04; H. O., Boston Lying-In Hosp., 1904; Visit. Phys., Carney Hosp., O. P. D., 1907-12; Visit. Phys., Boston Consumptives' Hosp., O. P. D., 1909-17; Phys., Boston Disp., 1912-18; *Assoc. in Med., P. B. B. H.*

WRIGHT, LESLIE H.

M.D., Univ. of Vt., 1918; H. O., Naval Hosp., Chelsea, 1918-19; Transport Serv., May 1, 1919-Sept. 1, 1919; Asst. Phys., Conn. State Hosp., Sept., 1919-July, 1920; Private Practice, July, 1920-May, 1922; Pathol., Monson State Hosp., May, 1922-Dec., 1924; Asst. in Hosp. Adm., Harv. Sch. Public Health; *Second Asst. Supt., P. B. B. H., Dec. 1, 1924-Dec. 1, 1927; First Asst. Supt., ibid.*

WYATT, TYREE C.

A.B., Wake-Forest Coll., 1920; M.D., Syracuse Univ., 1922; Dept. of Pathol., *ibid.*, 1922-27; *Med. H. O., P. B. B. H.*

ZINSSER, HANS

A.B., Columbia, 1899; A.M., M.D., *ibid.*, 1903; Asst. Prof. Bacteriol., Leland-Stanford, 1910-11; Prof., *ibid.*, 1911-13; Prof. Bacteriol., Columbia Univ., 1913; Bacteriol., Presbyterian Hosp.; Prof. of Bacteriol., Harv.; *Consult. Bacteriol., P. B. B. H.*

Register of Former Members of the Staff

ADAMS, FRANK DENNETTE

Litt.B., Princeton, 1913; M.D., Harv., 1917; Med. H. O., M. G. H., 1917-18; 1st Lieut., M. C., U. S. Army, 1918-19; *Pathol. H. O.*, *P. B. B. H.*, Oct. 1, 1919-March 15, 1920; *Act. Res. Pathol.*, *ibid.*, March 15-July 1, 1920; Res. Phys., B. C. H., 1920-22; Lect. in Med., Univ. of N. C., Extension Div., 1922 and 1923; H. O., So. Dept., B. C. H., 1922; Assoc. in Therapeutics, George Washington Univ.; Instr. in Med., Georgetown Univ., 1923; Phys. to Out-Patients, M. G. H.; Asst. in Med., Harv.; in practice, Boston.

ALEXANDER, HARRY LOUIS

A.B., Williams, 1910; M.D., Columbia, 1914; H. O., Presbyterian Hosp., New York, 1914-16; *Asst. Res. Phys.*, *P. B. B. H.*, Sept. 15, 1916-July 6, 1917; Major, M. C., U. S. Army; Instr. in Med., Cornell, 1919-24; Asst. Adjunct Attend. Phys., 2nd Med. Div., Bellevue Hosp., New York, 1919-24; Attend. Phys. and Visit. Pathol., Overlook Hosp., Summit, New Jersey, 1920-24; Chief of Asthma Dept., Cornell Pay Clin., New York, 1921-24; Assoc. Prof. Med., Washington Univ., and Assoc. Phys., Barnes Hosp., St. Louis.

ALTNOW, HUGO OSKAR

M.D., Univ. of Mich., 1907; Interne and Asst. Surg., Northern Pac. Ry. Hosp., Brainerd, Minnesota, 1907-09; Surg., Northern Pac. Ry., and Private Practice, Mandan, North Dakota, 1909-24; Visit. Phys., Mandan Deaconess Hosp., 1919-24; Grad. Asst. in Neurol., O. P. D., M. G. H., May 1-July 1, 1924; *Jr. Assoc. in Med.*, *P. B. B. H.*, July 11, 1924-July 1, 1925; Asst. in Med., Dept. of Med., Univ. of Minn.; in practice, Minneapolis, Minnesota.

ARMSTRONG, WILBER P.

A.B., Univ. of Ill., 1920; M.D., Harv., 1923; Interne, Fifth Ave. Hosp., New York; *Surg. H. O.*, *P. B. B. H.*, Jan. 6-July 1, 1925; in practice, Springfield, Illinois.

ATWATER, REGINALD MYERS

A.B., Colorado Coll., 1914; M.D., Harv., 1918; C.P.H., Johns Hopkins, 1920; Dr. P.H., *ibid.*, 1921; *Med. H. O.*, *P. B. B. H.*, March 1, 1918-April 15, 1919; Dept. of Hygiene, Hunan-Yale College of Med., Changsha, Hunan, China, 1921-25; Inst. Epidemiology, Harv. Sch. Public Health, 1925-27; Act. County Health Officer and Director of Demonstration, Cattaraugus Co. Dept. of Health, Olean, New York.

PETER BENT BRIGHAM HOSPITAL

BAGLEY, JR., CHARLES

M.D., Univ. of Md., 1904; A.B., Loyola, 1911; Asst. Res. Phys., Univ. Hosp., Baltimore, 1904-05; Asst. Res. Surg., *ibid.*, 1905-06; Med. Supt., Hebrew Hosp., Baltimore, 1906-10; *Asst. Res. Surg.*, *P. B. B. H.*, Jan. 1, 1913-Jan. 1, 1914; Major, M. C., U. S. Army, 1917-19; Visit. Surg., Hebrew Hosp, Church Home and Infirm., St. Agnes' Hosp., Bon Secours Hosp.; W. Baltimore Gen. Hosp., Maryland Gen. Hosp., and Union Mem. Hosp., Baltimore; Consult. Surg., Baltimore Eye, Ear and Throat Charity Hosp., Emergency Hosp., Annapolis, Maryland, Presbyterian Eye, Ear and Throat Charity Hosp., St. Joseph's Hosp., So. Baltimore Gen. Hosp., Baltimore, Alleghany Hosp., Cumberland, Maryland, and Waynesboro Hosp., Waynesboro, Pennsylvania; Assoc. in Exper. Neurol., Johns Hopkins; Asst. Psychiatrist, J. H. H., Baltimore; Consult. Neuro-Surgeon, U. S. P. H. S.; in practice, Baltimore.

BALDWIN, LOUIS B.

Litt. B., Princeton, 1915; M.D., Columbia, 1919; Interne, Presbyterian Hosp., New York, April, 1919-July, 1920; Interne, Sloane Hosp., New York, Sept., 1920-Dec., 1920; Assoc. in Med., Presbyterian Hosp., New York, Jan., 1921-July, 1921; *Asst. Res. Phys.* (*acting*) *P. B. B. H.*, Dec. 20, 1921-Feb. 1, 1922; Instr. in Med. and Asst. Phys., Strong Mem. Hosp., Rochester, New York; Phys., Rochester Gen. Hosp.; Phys., Baden St. Disp., Rochester.

BALYEAT, RAY MORTON

A.B., Oklahoma Univ., 1912; B.S., *ibid.*, 1915; M.A., *ibid.*, 1916; M.D., *ibid.*, 1918; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1916-Oct. 1, 1919; Instr. in Med., Univ. of Oklahoma Med. School; Consult. Phys., St. Anthony's Hosp. and State Univ. Hosp., Oklahoma City; in practice, Oklahoma City, Oklahoma.

BARROW, WILLIAM HULBERT

A.B., Harv., 1908; M.D., *ibid.*, 1916; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1916-June 17, 1917; Lieut. and Capt., M. C., U. S. Army, 1917-21; Med. Advisor, Middlesex School, Concord, Massachusetts, 1921-22; Med. Advisor and Prof. of Phys. Education, Stanford Univ., 1922-27; Asst. Clin. Prof. Med., *ibid.*, 1926-27; Assoc. Clin. Prof. Med., *ibid.*

BELT, A. ELMER

M.D., Univ. of Cal., 1920; Fellow, Hooper Research Laboratories, *ibid.*; Asst. in Urol. Surg., Univ. Hosp., for a year; *Asst. Res. Surg.*, *P. B. B. H.*, July 1, 1922-July 1, 1923; in practice, Los Angeles.

BENET, GEORGE

Student for 3 yrs., Univ. of S. C., and Univ. of Va.; M. D., Harv., 1913; *Med. H. O.*, *P. B. B. H.*, June 1, 1913-July 1, 1914; Sr. Surg. H. O., St. Luke's Hosp., Chicago, July 1, 1914-Jan. 1, 1915; Lab. Asst., Harv. Unit, Am. Ambulance Hosp., Paris, France, 1915;

REGISTER OF FORMER MEMBERS OF THE STAFF

Surg. at French Hosp. near Annel, 1915-16; Capt. and Asst. Surg., 2nd Harv. Unit, B. E. F., France, 1916; Res. Phys., Collis P. Huntington Mem. Hosp., 1916-17; Surg., Fulham Military Hosp., London, England, 1917; M. R. C., U. S. Army, 1917-18; Capt., M. C., U. S. Army; Battalion Med. Officer to 16th Devons Infantry Reg., (British) 1918; Awarded British Military Cross, 1918; Fellow, American College of Surgeons; Asst. Visit. Surg., Richland Co. Hosp.; Chief Surg., South Carolina State Hosp.; Attend. Surg., Newberry Co. Hosp.; in practice, Columbia, South Carolina.

BENTON, ROY WILMOT

Ph.B., Brown Univ., 1918; M.D., Harv., 1922; *Med. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924*; H. O., New York Nursery and Child's Hosp., 1924-25; H. O., Providence City Hosp., 1925; Resident Phys., *ibid.*, 1925-26; Asst. Supt., *ibid.*

BERGLUND, HILDING

M.D., Univ. of Stockholm, 1916; S.D., *ibid.*, 1920; Asst. Phys., Stockholm Hosp., 1915-19; Asst. Prof. Int. Med., Univ. of Stockholm, 1920; *Asst. Res. Phys., P. B. B. H., July 5, 1921-Sept. 1, 1923*; Asst. Prof. Medicine, Harv.; *Assoc. in Med., P. B. B. H., Sept. 1, 1923-Nov. 1, 1925*; Prof. of Med., Univ. of Minn., and Chief, Dept. of Med., Univ. Hosp.

BERRY, FRANK BROWN

A.B., Harv., 1914; M.D., *ibid.*, 1917; Pathol. H. O., B. C. H., July-Dec., 1917; *Med. H. O., P. B. B. H., Jan. 9-March 1, 1918*; 1st Lieut. and Capt., M. C., U. S. Army, 1918-19; 1st Asst. Pathol., B. C. H., 1919-20; Surg. H. O., Presbyterian Hosp., New York, 1920-21; Practicing Med., Providence, Rhode Island, 1921-23; Res. Surg., Bellevue Hosp., New York, 1923-24; Instr. in Surg., Columbia; Adjunct Attend. Surg., Bellevue Hosp.; Asst. Surg., Polyclinic Hosp., New York; in practice, New York City.

BLAKE, FRANCIS GILMAN

A.B., Dart., 1908; M.D., Harv., 1913; *Med. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914*; *Asst. Res. Phys., ibid., Nov. 1, 1914-Sept. 1, 1915*; *Res. Phys., ibid., Sept. 1, 1915-Oct. 1, 1916*; Moseley Travelling Fellow (Harv.), 1916-17; Asst., Rockefeller Inst. Hosp., 1916-17; Asst. Prof. of Med., Univ. of Minn., 1917-19; Visit. Phys., Elliott Mem. Hosp., Univ. of Minn., 1917-19 (leave of absence Feb. 11, 1918-July 1, 1919); Assoc. in Med., Rockefeller Inst. Hosp., 1919-20; Assoc. Mem. in Med., Rockefeller Inst. Hosp., 1920-21; Mem., Board Scientific Directors, Rockefeller Inst. for Med. Research; Starling Prof. of Med., Yale Univ., School of Med.; Phys.-in-Chief, New Haven Hosp., New Haven, Connecticut.

BLOSSER, HAROLD L.

A.B., Grinnell Coll., Grinnell, Iowa; M.D., Harv., 1925; *Pathol. H. O., P. B. B. H., Jan. 1, 1925-Jan. 1, 1926*; Grad. Asst. Roent., M. G. H., 1926; Surg. H. O., Lakeside Hosp., 1926-27; Asst. Res. Surg., *ibid.*

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BLUMGART, HERRMANN

B.S., Harv., 1917; M.D., *ibid.*, 1921; *Med. H. O., P. B. B. H.*, July 1, 1921-Nov. 1, 1922; Moseley Travelling Fellow, 1923-24; Asst. in Med., Thorndike Mem. Lab., B. C. H.; Asst. in Med., Harv.; Faculty Instr. in Med., *ibid.*

BOEHM, JULIUS BENJAMIN

B.S., St. Louis Univ., 1910; M.D., Johns Hopkins, 1914; *Surg. H. O., P. B. B. H.*, Nov. 1, 1914-Nov. 1, 1915; Res. Surg., Greenpoint Hosp., Brooklyn, New York, 1915-18; Surg. Serv., Walter Reed Hosp.; in practice, Brooklyn, New York.

BOGGS, ARTHUR GORDON

A.B., Dart., 1915; M.D., Harv., 1919; *Surg. H. O., P. B. B. H.*, March 15, 1919-July 1, 1920; New Haven Hosp., New Haven, Connecticut; Med. Missionary, Clough Mem. Hosp., Ongole, South India.

BOOTHBY, WALTER MEREDITH

A.B., Harv., 1902; M.D., *ibid.*, 1906; A.M., *ibid.*, 1907; European clinics for 8 mos., 1907-08; *Surg. H. O., B. C. H.*, 1908-09; Asst. in Anat., Harv., 1910-14; Asst. in Anesthesia, Harv. Grad. School of Med., 1912-13; Sheldon Travelling Fellow, Harv. (Oxford Univ., largely); Anesthetist, B. C. H., 1912; *Supervisor of Anesthesia, P. B. B. H.*, Dec. 11, 1913-Nov. 14, 1916; Lect. on Anesthesia and Instr. in Anat., Harv., 1914-16; Capt. and Major, M. C., U. S. Army, 1917-19; Assoc. Prof. of Med., Mayo Foundation, Univ. of Minn.; Head of Sect. of Clin. Metabolism, Mayo Clinic, Rochester, Minnesota.

BOYD, DOUGLAS

Univ. of Ga.; M.D., Harv., 1922; H. O., Robert Brigham Hosp., Boston, 1921-22; Asst. Res. Phys., Boston Sanatorium, 1922-23; *Surg. H. O., P. B. B. H.*, March 1, 1923-July 1, 1924; *Act. Asst. Res. Surg., ibid.*, July 1-Aug. 1, 1924; Asst. in Med., Rockefeller Inst., 1924-25; Asst. Res. Phys., Hosp. of Rockefeller Inst.; Asst. Res. Surg., Lakeside Hosp., 1925-26; Res. Orthopedic Surg., Rainbow Hosp., Cleveland, Ohio, 1926; practice, Traumatic and Orthopedic Surg., Chicago, Illinois.

BREWSTER, ALBERT H.

B.A., Univ. of Va., 1914; M.D., J. H. M. S., 1918; M. C., U. S. Army, 1917-19; Children's Hosp. Sch., Baltimore, Maryland, 1919-20; *Surg. H. O., P. B. B. H.*, Feb. 15, 1920-July 1, 1921; Orthopedic Service, Children's Hosp., Boston; Instr., Orthopedic Surg., Harv.; Visit. Orth. Surg., N. E. Peabody Home for Crippled Children, and Industrial School for Crippled and Deformed Children; in practice, Boston.

BRIGHAM, FERDINAND

A.B., Tufts Coll., 1912; D.M.D., H.D.S., 1915; *Dental Surg., P. B. B. H.*, March 13, 1919-Jan. 20, 1920; Capt., R. A. M. C., 1915-19;

REGISTER OF FORMER MEMBERS OF THE STAFF

Degree, Dental Surg., Fac. of Med., Paris; in practice, 95 Ave. des Champs Elysees, Paris.

BRILL, SELLING

A.B., Stanford, 1920; M.A., *ibid.*, 1922; M.D., Harv., 1924; *Surg. H. O.*, *P. B. B. H.*, Nov. 1, 1924-March 1, 1926; Hunter Fellow in Surg., Univ. Hosp., Philadelphia, Pennsylvania.

BRITTINGHAM, HAROLD HIXON

A.B., Yale, 1916; M.D., Harv., 1920; *Med. H. O.*, *P. B. B. H.*, July 1, 1920-Nov. 1, 1921; *Asst. Res. Phys.*, *ibid.*, Nov. 15-Dec. 6, 1921; Demonstr. Physiol., Western Reserve Univ., 1922-23; Demonstr. in Med., *ibid.*, 1923-24 and 1925-27; Asst. Visit. Phys., Cleveland City Hosp.; in practice, Cleveland, Ohio.

BROWN, WILLIAM EUSTIS

Ph.B., Lafayette Coll., 1909; C.P.H., Harv.-M. I. T., Sch. of Public Health, 1915; M.D., Harv., 1920; *Surg. H. O.*, *P. B. B. H.*, Oct. 15, 1920-Feb. 20, 1922; Surg.-in-Chief, N. J. Zinc Co. Hosp., Franklin, New Jersey, 1922-24; Asst. Prof. Preventive Med., Med. Dept., Univ. of Cinn., 1924-26; Assoc. Prof. Preventive Med., *ibid.*

BRYANT, JOHN

A.B., Harv., 1903; Asst. Res. Surg., Free Hosp. for Women, Brookline, 1905-06; M.D., Harv., 1907; Instr. in Pathol. and Neuropathol., *ibid.*, 1907-08; Surg. House Pupil, M. G. H., 1908-10; Private Asst. to Dr. S. J. Mixter, 1910-12; Research in Europe, 1912, 1913, and 1914; Asst. in Anat., Harv., 1913-18; Grad. Asst., M. G. H., O. P. D., 1915-16; Asst. to Phys.-in-Chief, Robert B. Brigham Hosp., 1915-16; *Vol. Asst.*, *P. B. B. H.*, July, 1916-Jan., 1917; *Assoc. in Med.*, *ibid.*, Jan. 1, 1917-Jan. 1, 1918; Major, M. C., U. S. Army, 1917-19, including service as Director, Convalescent Dept., Walter Reed General Hosp., and Field Consultant for the Northeastern Area, Division of Physical Reconstruction, Surgeon-General's Office; Secretary, American Gastro-Enterological Assn., 1923-27; Medical Asst. in Problems of Convalescence, M. G. H.; Consultant to Burke Foundation for Convalescents, New York; in practice, Internal Medicine, Boston.

BUCK, ROBERT WILLIAM

A.B., Butler Coll., 1914; A.M., Columbia, 1915; M.D., Harv., 1921; Asst. Res., Boston Hosp. for Consumptives, 1921; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1921-March 1, 1923; H. O., Boston Lying-In Hosp., 1923; Assoc. Chief, Med. Dept., Boston Disp.; Asst. in Med., M. G. H.; in practice, Boston.

BURLINGHAM, LOUIS HERBERT

A.B., Yale, 1902; M.D., Johns Hopkins, 1906; House Pupil, M. G. H., 1906-07; Asst. Res. Phys., *ibid.*, 1907-12; Asst. Adm., *ibid.*, 1912; *First Asst. Supt.*, *P. B. B. H.*, Oct. 19, 1912-April 30, 1917; *Curator*, *ibid.*, May 8, 1913-May 10, 1917; Lect. on Hosp. Adm., Washing-

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ton Univ. Med. Sch.; Assoc. Editor, Modern Hosp.; Supt., Barnes Hosp., St. Louis, Missouri; Administrator, St. Louis Children's Hosp., 1917-25; Mem., Med. Council to U. S. Vet. Bureau; Pres., Mo. Hosp. Assoc., 1921-22; Trustee, Mid-West Hosp. Assoc.; Member, Exec. Comm. Community Fund; President-elect, A. H. A.

CADBURY, WILLIAM WARDER

A.B., Haverford, 1898; A.M., *ibid.*, 1899; M.D., Univ. of Pa., 1902; Res. Phys., Pa. Hosp., 1903-05; Stud. in Vienna, 1905; Instr. in Pathol. and Pharmacodynamics, Univ. of Pa., 1906-07; Pathol., St. Mary's Hosp., Philadelphia, 1906-07; Pathol., Henry Phipps Inst. for the Study, Treatment and Prevention of Tuberculosis, 1908-09; Visit. Phys., Free Hosp. for Poor Consumptives, White Haven, Pennsylvania, 1908-09; *Asst. Res. Phys., P. B. B. H., Nov. 1, 1915-March 1, 1916*; College Phys., Lingnan Univ., Canton, China.

CARR, GLADYS LYDIA

M.D., Tufts, 1906; H. O., N. E. Hosp. for Women and Children, 1906-07; Asst. on Maternity Staff, *ibid.*, 1907-08; Gen. Practice, Boston, 1907-08; Private Practice, Lynn, 1908-14; Head of Roent. and Electrotherapeutic Depts., N. E. Hosp. for Women and Children; *Roentgenologist, pro tempore, P. B. B. H., June 1, 1914-Feb. 1, 1916*; *Roentgenologist, ibid., Feb. 1, 1916-Oct. 31, 1917*; Roentgenologist, American Comm. for Relief in the Near East, Asia Minor; Roentgenologist, Finley Hosp., Dubuque, Iowa.

CARTER, JR., DAVID WENDEL

A.B., Southwestern Univ., 1909; A.M., *ibid.*, 1910; M.D., Johns Hopkins, 1914; H. O., Clifton Springs Sanitarium, 1914; *Med. H. O., P. B. B. H., Jan. 4, 1915-July 1, 1916*; Asst. Res. Phys., J. H. H., 1916-17; Res. Phys. in charge of Private Wards, *ibid.*, 1917-18; 1st Lieut., M. C., U. S. Army, 1917-19; Visit. Phys., Parkland Hosp., Dallas; Assoc. Prof. of Med., Baylor Univ., Dallas; Mem. Staff, Baylor Hosp.; Chairman, Med. Advisory Comm., Dallas Methodist Hosp.; in practice, Dallas, Texas.

CARTY, JOHN RUSSELL

B.S., Princeton, 1917; M.D., Cornell, 1921; House Phys., New York Hosp., 1921-23; *X-ray H. O., P. B. B. H., July 1, 1923-July 1, 1924*; Asst., Dept. of Radiology, M. G. H., April-Oct., 1925; Chief of Clin. in Roent., Cornell Univ. Med. Sch. Clin., New York; Instr. Roentgenology, *ibid.*

CHASE, HENRY MELVILLE

S.B., Dart., 1897; M.D., Harv., 1901; House Pupil, M. G. H., 1901-02; Asst. Surg., Boston Disp., 1906-14; Surg., Boston Disp.; Surg., Berkeley Infirmary; *Assoc. in Surg., P. B. B. H., Nov. 17, 1914-July 11, 1919*; in practice, Boston.

CHELEY, GLEN EVAN

A.B., Colorado Coll., 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921*; H. O., Boston Lying-In Hosp.,

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1921-22; Instr. in Surg., Colorado Med. Sch.; Surg. to Out-Patients, Colorado Gen. Hosp.; in practice, Denver, Colorado.

CHRISTIAN, JR., THOMAS D.

M.D., Harv., 1923; Med. H. O., B. C. H.; *Asst. Res. Phys., P. B. B. H., Jan. 1, 1925-Nov. 15, 1925; Jr. Assoc. in Med., ibid., Nov. 15, 1925-Oct. 1, 1926; in practice, Greensboro, North Carolina.*

CLARK, JR., BURTON

B.S., Univ. of Wis., 1921; M.D., Harv., 1923; Interne, St. Luke's Hosp., Chicago, July 1, 1923-April 1, 1925; *Surg. H. O., P. B. B. H., May 1-Nov. 1, 1925; Pathol. H. O., B. C. H., Nov. 1, 1925-Jan. 1, 1926; in practice, Oshkosh, Wisconsin.*

COBB, STANLEY

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Surg. H. O., P. B. B. H., July 1, 1914-July 1, 1915; Vol., Lab. of Physiol. Research, Johns Hopkins, 1915-16; Asst. in Physiol., ibid.; Asst. in Psychiatry, ibid., 1916-17; Asst. in Psychiatry and Physiol. of the Nervous System, ibid.; Asst. Psychiatrist, ibid., 1917-18; Assoc. in Psychiatry, ibid. (on leave of absence); 1st Lieut., M. C., U. S. Army, 1917-19; Asst. Neurol., M. G. H., 1919-20; Dalton Scholar, *ibid.*; Instr. in Neurol. and Physiol., Harv., 1919-23; Asst. Neurol., M. G. H.; Asst. Prof. of Neuropathol., Harv., 1923; Rockefeller Fellow in Europe, 1923-25; Assoc. Prof. Neuropathol., Harv., 1926; Prof. Neuropathol., *ibid.**

CONNOR, CHARLES LLOYD

Univ. Pittsburgh, 1913-17; M.D., Baylor Univ., Coll. of Med., 1920; Interne, St. Joseph's Hosp., Pittsburgh, 1920-21; Gen. Practice, Montana, 1921-23; Fellow in Med., Nat. Research Council, 1923-25; Research Fellow, Pathol., Harv., 1923-25; Instr. in Pathol., *ibid.*, 1925; *Res. Pathol., P. B. B. H., Sept. 1, 1925-Sept. 1, 1926; Acting Director, Pathological Laboratories, Montreal General Hosp. (leave of absence from Harvard, 1926-27).*

COOK, WARD HANCE

A.B., Univ. of Kans., 1909; A.M., *ibid.*, 1910; Fellow in Zoölogy, *ibid.*, 1909-10; Instr. in Embryology and Histology, *ibid.*, 1910; M.D., Harv., 1914; *Med. H. O., P. B. B. H., July 1, 1914-July 10, 1915; 2nd Asst. in Pathol., B. C. H., 1915-16; 1st Asst. in Pathol., ibid., 1916-17; Pathol., Long Island Hosp., Boston, 1917-21; Instr. in Pathol., Harv., 1917-21; Prof. of Pathol., Med. Coll. of Va., Richmond, Virginia, 1921-24; Assoc. Director, Wm. H. Singer Mem. Research Lab., Pittsburgh, Pennsylvania; Pathol., New York Post Grad. Med. School and Hosp.*

COUNCILMAN, WILLIAM THOMAS

M.D., Univ. of Md., 1878; Stud., Univs. of Vienna and Leipzig; Hon. A.M., Harv., 1899; Hon. A.M., Johns Hopkins, 1902; LL.D., Univ. of Md., 1907; LL.D., McGill Univ., 1911; Asst. Prof. in Anat., Johns Hopkins, 1890-91; Shattuck Prof. of Pathol. Anatomy,

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Harv., 1892; Emeritus Prof., *ibid.*; *Consult. Pathol., P. B. B. H., March 25, 1912-Aug. 14, 1913; Pathol., ibid., Aug. 14, 1913-Dec. 1, 1916 (granted leave of absence from Nov. 9-Dec. 1, 1916); Mem., Dr. Hamilton Rice's Expedition to South America; Fellow, Am. Acad., 1895; Mem., Nat. Acad. of Sciences, 1904; Fellow, Philosophical Society, Philadelphia, 1918.*

CRISLER, JR., JOSEPH AUGUSTUS

B.S., Univ. of Va., 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923; in practice, Memphis, Tenn.*

CROCKETT, EUGENE ANTHONY

Act. Consult. Otologist and Laryngologist, P. B. B. H., June 13, 1918-Dec. 31, 1919.

CUNNINGHAM, THOMAS DONALD

B.S., Dart., 1913; M.D., Harv., 1918; House Pupil, M. G. H., 1917-18; *Asst. Res. Phys., P. B. B. H., March 1, 1919-July 1, 1920; House Pupil, Children's Med. Serv., M. G. H., 1920-21; Mem., Med. Staff, Denver City and County Hosp., St. Joseph's Hosp., St. Luke's Hosp., and Children's Hosp., Denver, Colorado; Staff, Colorado Gen. Hosp.; Instr. in Med., Univ. of Col.; in practice, Denver, Colorado.*

CURTIS, ROBERT DUDLEY

A.B., Harv., 1914; M.D., *ibid.*, 1918; *Med. H. O., P. B. B. H., July 1, 1918-July 1, 1919; Pediatric H. O., M. G. H., 1918; Asst. Visit. Phys., ibid., O. P. D., 1919; Med. Director, Boston Baby Hygiene Assoc.; Asst. in Pediatrics, Harv.*

CURTISS, ARTHUR NILES

A.B., Oberlin Coll., 1918; M.D., Syracuse Univ., 1923; Instr. in Physiol., Coll. of Med., Syracuse Univ., 1918-24; *Med. H. O., P. B. B. H., Nov. 1, 1924-March 1, 1926; Asst. Attend., Univ. Hosp., Syracuse, N. Y.; Asst. Attend., Gen. Hosp. of Syracuse; in practice, Syracuse, New York.*

CUTLER, ELLIOTT CARR

A.B., Harv., 1909; M.D., *ibid.*, 1913; *Surg. H. O., P. B. B. H., Nov. 1, 1913-March 1, 1915; Res. Surg., Harv. Unit, Am. Ambulance Hosp., Paris, France, 1915; Res. Surg., M. G. H., 1915-16; Alumni Asst. in Surg., Harv., 1915-16; Vol. Asst., Rockefeller Inst., New York, 1916-17; Major M. C., U. S. Army; D.S.M., 1917-19; Instr. in Surg., Harv., 1921-24; *Res. Surg., P. B. B. H., Aug. 1, 1919-Sept. 1, 1921; Assoc. in Surg., ibid., Sept. 1, 1921-July 1, 1924; Chairman, Dept. of Surg., and Director of Lab. of Surg. Research, Harv., 1922-24; Prof. of Surg., Western Reserve Univ. Med. Sch., and Chief Surg., Lakeside Hosp., Cleveland, Ohio.**

DAVIDOFF, LEO MAX

Two yrs. pre-med. work, Harv.; M.D., *ibid.*, 1922; Stud. Interne, Boston Psychopathic Hosp., April, 1921-June, 1922; Pediatric Serv.,

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B. C. H., July-Nov., 1922; Med. Serv., New Haven Hosp., Nov. 1, 1922-Nov. 1, 1923; *Surg. H. O., P. B. B. H., March 1, 1924-June 20, 1925*; *Surg., MacMillan Arctic Expedition, June 20, 1925-Oct. 1, 1925*; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1925-Oct. 1, 1926*; *P. B. B. H. Travelling Fellowship, 1926-27*; Asst. Neuro-Pathol., Psychiatric Inst. of the State of New York.

DAVIDSON, LEONARD TOMB

B.S., Oberlin, 1912; M.D., Johns Hopkins, 1919; *Med. H. O., P. B. B. H., Sept. 15, 1919-Nov. 1, 1920*; Asst. Res. Phys., Presbyterian Hosp., New York, 1920-21; Res. Phys., St. Louis Children's Hosp., St. Louis, 1921-23; Pediatrician Asst., Diseases of Children, Col. Physicians and Surgeons, New York.

DAVIS, LOYAL

M.D., Northwestern Univ., 1918; M.S., *ibid.*, 1921; Ph.D. in Surg., *ibid.*, 1923; Nat. Research Council Fellow, 1922-24; *Jr. Assoc. in Surg., P. B. B. H., March-Oct., 1924*; Assoc. Prof. Surg., Chief, Neuro-Surg. Div., Director, Lab. Exp. Research, Northwestern Univ. Med. Sch.; Attend. Neurol. Surg., Wesley Mem. Hosp., Chicago; Attend. Surg., Cook Co. Hosp., and Children's Mem. Hosp., Chicago.

DAWSON, ROGER PAUL

A.B., Holy Cross, 1907; M.D., Harv., 1911; *Med. H. O., Carney Hosp., Boston, 1911-12*; *Med. H. O., P. B. B. H., Nov. 1, 1912-Nov. 1, 1913*; Fellow in Med., Harv., 1914-15; Phys., Carney Hosp., O. P. D., 1914-15; *Assoc. in Med., P. B. B. H., July 1, 1915-Dec. 31, 1916*; Asst. Phys., Boston Disp., O. P. D.; Phys. to O. P. D., M. G. H.; Asst. in Med., Harv.; in practice, Boston.

DEAN, JR., ARCHIE LEIGH

B.S., Cornell, 1913; M.D., *ibid.*, 1917; *Surg. H. O., P. B. B. H., May, 1917-Feb, 1918*; 1st Lieut., M. C., U. S. Army, 1918-19; in practice, New York City.

DERICK, CLIFFORD L.

M.D., McGill Univ., 1918; H. O., Montreal Gen. Hosp., Sept., 1919-Sept., 1922; Fellow, Nat. Research Council; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1923-July, 1924*; Asst. in Med. and Research Fellow in Bio-Chemistry, Harv., 1922-24; Asst. Res. Phys., Rockefeller Hosp., New York.

DEVAN, THOMAS ALAN

B.S., Rutgers, 1906; M.D., Johns Hopkins, 1910; H. O., Presbyterian Hosp., New York, 1911-13; *Second Asst. Supt., P. B. B. H., Aug. 1, 1913-May 1, 1917*; *First Asst. Supt., ibid., May 1, 1917-July 1, 1919*; 1st Lieut., M. C., U. S. Army, Nov. 5, 1918-Dec. 6, 1918; College Phys. and Prof. of Hygiene, Rutgers Coll., New Brunswick, New Jersey, July, 1919-July, 1925; Asst. Director, Strong Mem. Hosp., Rochester, New York.

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DOCK, WILLIAM

B.S., Wash. Univ., 1920; M.D., Rush Med. Coll., 1922; *Med. H. O.*, *P. B. B. H.*, July 1, 1922-Nov. 1, 1923; *Asst. Res. Phys.*, *ibid.*, Nov. 1, 1923-Nov. 1, 1924; Grad. Stud., Vienna, Austria; Med. Res., Lane and Stanford Hosp., San Francisco, Calif.; Asst. Clin. Prof. Med., Stanford Univ.

DOEGE, PAUL FREDERICK

Univ. of Wis., 1917-20; Western Reserve Univ., 1920-22; M.D., Harv., 1926; *Pathol. H. O.*, *P. B. B. H.*, Oct. 1, 1926-Jan. 1, 1927.

DONALD, DOUGLAS

B.S., Univ. of Mich., 1916; M.D., Harv., 1918; *Med. H. O.*, *P. B. B. H.*, Feb. 12, 1918-March 1, 1919; *Asst. Res. Phys.*, *ibid.*, March 1-June 16, 1919; Henry Ford Hosp., 1919-20; Instr. in Clin. Med., Detroit Coll. of Med.; in practice, Detroit, Michigan.

DOTT, NORMAN McOMISH

M.B., Ch.B., Edinburgh; F.R.C.S., Edinburgh; *Jr. Assoc. in Surg.*, *P. B. B. H.*, Nov., 1923-June, 1924; Surg., Royal Edinburgh Hosp. for Sick Children; Asst. Surg., Deaconess Hosp., Edinburgh; Lect. in Surg. Diseases of Children, Edinburgh Univ.

DRINKER, CECIL KENT

B.S., Haverford, 1908; M.D., Univ. of Pa., 1913; Vol. Asst., Dept. of Pharmacology, Univ. of Pa. Med. Sch., 1913-14; *Med. H. O.*, *P. B. B. H.*, March 1, 1914-July 1, 1915; Asst. in Physiol., Johns Hopkins, 1915-16; Instr. in Physiol., Harv., 1916-18; *Res. Phys.*, *P. B. B. H.*, July 10-Oct. 15, 1917; Asst. Prof. Physiol., Harv., 1918-19; Assoc. Prof. Applied Physiol., *ibid.*, 1919-23; Asst. in Med., M. G. H., 1922; Asst. to the Visit. Phys., B. C. H., 1922-24; Special Research, Lab. of Zoöphysiology, Univ. of Copenhagen, Denmark, 1926-27; Prof. of Physiol., Harv.

DRINKER, KATHERINE ROTAN

A.B., Bryn Mawr, 1910; M.D., Women's Med. Coll. of Pa., 1914; *Asst. Res. Phys.*, *P. B. B. H.*, July 7-Sept. 24, 1917; Research Worker in Physiol., 1914-15, 1916-17; *ibid.*, Johns Hopkins, 1915-16; Managing Ed., Journal Indust. Hygiene, 1918-21; Lect. in Hygiene, Bryn Mawr Coll., 1921-23; Research Worker in Physiol., Harv.

EDSON, PHILIPS JOSIAH

A.B., Univ. of Cal., 1920; M.A., *ibid.*, 1921; M.D., *ibid.*, 1924; Stud. Interne, Hahnemann Hosp., summer 1922; Med. Officer to Sierra Club Outings, 1921-22; Interne, Yosemite Hosp., Cal., 1923; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1923-March 1, 1925; *H. O.*, X-ray Dept., *ibid.*, March 1-Sept. 1, 1925; Jr. Member of Staff in Med., Pasadena Hosp.; Roentgenologist, Pasadena Disp., and Pasadena Chest Clin.; in practice, Pasadena, California.

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EDWARDS, SUMNER

A.B., Bowdoin, 1910; Stud., Hebron Acad., Me., 1910-11; M.D., Harv., 1915; *Med. H. O., P. B. B. H., Nov. 1, 1915-Jan. 6, 1916.*
Died Jan. 6, 1916.

ELIOT, MARTHA MAY

A.B., Radcliffe, 1913; M.D., Johns Hopkins, 1918; *Med. H. O., P. B. B. H., June 15, 1918-July 1, 1919*; St. Louis Children's Hosp., 1919-20; Phys., Boston, Massachusetts, 1920-21; Dept. of Pediatrics, New Haven Hosp., New Haven, Connecticut, 1921-23; Asst. Clin. Prof., Pediatric Dept., Yale, 1927-28; Director, Div. of Child Hygiene, U. S. Children's Bureau, Washington, D. C., 1924-28.

ELKIN, DANIEL COLLIER

A.B., Yale, 1916; M.D., Emory Univ., 1920; Asst. Res. Surg., New York Lying-In Hosp., 1920; *Surg. H. O., P. B. B. H., March 1, 1921-July 1, 1922*; Asst. Res. Surg., *ibid.*, July 1, 1922-July 1, 1923; Res. Surg., *ibid.*, July 1-Sept. 1, 1923; Asst. in Surg., Harv., 1923; Instr. in Surg., Emory Univ. Sch. of Med., 1924; Assoc. in Surg., *ibid.*; Surg., Steiner Mem. Clin., Brady Hosp., and Wesley Mem. Hosp., Atlanta; in practice, Atlanta, Georgia.

EVANS, JAMES A.

A.B., Univ. of Wis., 1917; M.D., Harv., 1920; Med. Interne, Barnes Hosp., St. Louis; Group Practice, 1 yr.; St. Frances Hosp., La Crosse, Wisconsin; June, 1922, holder of Scholarship in France under Professors Gilbert and Widal and Dr. Bensaude; Asst. Res. Phys., *P. B. B. H., July 10, 1923-July 1, 1924*; Asst. Preceptor in Med., Univ. of Wis. Med. School; in practice, La Crosse, Wisconsin.

FALK, EMIL A.

A.B., Univ. of Minn., 1921; M.D., Harv., 1925; *Med. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926*; Pathology, B. C. H., 1927; Med. Res., Med. Div., Bellevue Hosp., New York.

FALLON, JOHN

A.B., Holy Cross, 1919; M.D., Harv., 1923; Asst. in Anat., Harv., 1923-25; Surg. H. O., St. Vincent Hosp., Worcester, 1924-25; *Surg. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Fellow in Surg., Mayo Clin., Rochester, Minnesota.

FALLON, LOUIS

M.D., Univ. of Pa., 1916; *Surg. H. O., P. B. B. H., July 1, 1916-Nov. 15, 1916*; M. C., U. S. Army, 1918-19; Capt. with Base Hosp. 51 and 69 and Gen. Hosp. 31, Carlisle, Pennsylvania; in practice, St. John's, Newfoundland.

FISHBACK, FRED C.

A.B., Harv., 1919; M.D., *ibid.*, 1922; H. O., St. Francis Hosp., Jersey City, New Jersey; *Pathol. H. O., P. B. B. H., May 15, 1923-Feb. 1, 1924*; 1 yr. at Women's Hosp., New York; New York Lying-

PETER BENT BRIGHAM HOSPITAL

In Hosp., 1925; Fellow in Surg., Mayo Clinic, Rochester, Minnesota.

FISHER, RIVINGTON H.

M.B., Queen's Univ., 1915; M.D., *ibid.*; C.M., *ibid.*; Asst. Res. Surg., P. B. B. H., July 13, 1923-Jan. 1, 1924.

FISKE, SEYMOUR

A.B., Univ. of Wis., 1916; M.D., Univ. of Pa., 1920; *Med. H. O.*, P. B. B. H., April 1, 1920-July 1, 1921; Out-Patient Attend., Babies' Hosp., New York, 1921-22; Attend. Phys., Cornell Clin., 1921-23; Attend. Gastro-Enterologist, Vanderbilt Clin., New York, 1923-24; Chief, G. I. Clin., Midtown Hosp., New York, 1925-26; Asst. Attend. Phys., Lutheran Hosp. of Manhattan; Asst. Attend. Phys., Presbyterian Hosp., O. P. D., New York; in practice, New York.

FLEMING, HOWARD

A.B., Univ. of Cal., 1914; M.D., *ibid.*, 1917; Med. and Surg. H. O., San Francisco Hosp. for 8 mos; Capt., M. C., U. S. Army; Asst. Res. Surg., San Francisco Hosp., 1919; Asst. Res. Surg., P. B. B. H., Dec. 20, 1919-Feb. 1, 1921; Instr. in Surg., Univ. of Cal.; Visit. Neuro-Surg., St. Luke's, Mt. Zion, and San Francisco Hospitals; in practice, San Francisco.

FLEMING, LEROY NEWTON

A.B., Miami, 1910; M.D., Johns Hopkins, 1914; Asst. in Surg., *ibid.*, 1915; *Surg. H. O.*, P. B. B. H., Nov. 1, 1915-March 1, 1916; Special Stud., Univ. of Mich., 1915-16; Surg. Research, Detroit, Michigan.

FOLEY, FREDERIC E. B.

Ph.B., Yale, 1913; M.D., Johns Hopkins, 1918; Asst. in Pathol., *ibid.*, 1918-19; Lab. for Surg. Research, Harv., 1919-20; *Surg. H. O.*, P. B. B. H., March 1, 1920-July 1, 1921; Genito-urinary Surg., Ancker Hosp., St. Paul, Minnesota; Visit. Surg., Miller Hosp.; Urologist, *ibid.*; in practice, St. Paul, Minnesota.

FORBES, HENRY STONE

A.B., Harv., 1905; Philippine Islands, 1905-06; M.D., Harv., 1911; *Med. H. O.*, B. C. H., 1911-13; *Sr. Med. H. O.*, P. B. B. H., June 1-Nov. 1, 1913; Phys. for Men, Infirmary, Univ. of Cal., Berkeley, Cal., 1914-15; Am. Red Cross, Serbia, 1915-16; Asst. Phys., M. G. H., O. P. D.; Lieut. and Capt., M. C., U. S. Army, 1917-19; Research Work, Cancer Commission, Harv.; Lab. and Field Work, Div. Industrial Hygiene, *ibid.*; Hon. Research Fellow, Applied Physiol., Yale Univ., New Haven, Connecticut; Research Work, Neuropathol., Harv.; Research Fellow Neuropathol., *ibid.*

FOSTER, JOHN HESS

B.S., Colby, 1913; M.D., Univ. of Pa., 1917; *Med. H. O.*, P. B. B. H., July 1, 1917-June 15, 1918; 1st Lieut., M. C., U. S. Army, 1918-19; Instr. in Med., Hunan-Yale Coll. of Med., Changsha,

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China; Vol. Asst., Thorndike Mem. Lab., B. C. H., 1923-24; Asst. in Med., Harv., 1924; Asst. Prof. in Med., Hunan-Yale Coll. of Med., Changsha, China; Assoc. Prof. of Med., *ibid.*, 1924-27; Asst. Phys., Waterbury Hosp.; in practice, Waterbury, Connecticut.

FOSTER, LEWIS CHANDLER

A.B., Univ. of Kansas, 1919; M.D., Harv., 1923; Substitute, Med. Serv., New York Hosp., 2 mos., 1922; *Surg. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924.*

FREMONT-SMITH, FRANK

M.D., Harv., 1921; *Pathol. H. O., P. B. B. H., July 1, 1921-July 1, 1922*; Med. H. O., B. C. H., 1922-23; Asst. in Neuropathol., Harv., 1923-24; Asst. in Neurol., M. G. H.; Asst. in Neuropathol., Harv., 1924-25 and 1925-26; John White Brown Scholar, Harv., 1924-25 and 1925-26.

FREMONT-SMITH, MAURICE

A.B., Harv., 1913; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., March 1, 1918-Feb. 7, 1919*; in charge of hosp. at Sivas, Armenia, 1919-20; in practice, Boston.

GABE, WILLIAM EDWIN

M.D., Harv., 1918; *Surg. H. O., P. B. B. H., March 1, 1918-March 31, 1919*; Instr. in Surg., Indiana Univ. Sch. of Med.; Visit. Staff in Gynecology, Indianapolis City Hosp.; Staff, Methodist Episcopal Hosp., and St. Vincent's Hosp., Indianapolis; in practice, Indianapolis, Indiana.

GILE, HAROLD H.

A.B., Princeton, 1915; M.D., Columbia (Coll. of Phys. and Surgs.), 1922; Surg. Interne, Presbyterian Hosp., New York, 1922-24; *Asst. Res. Surg., P. B. B. H., Jan. 1-Nov. 1, 1925*; Asst. Visit. Urologist, Presbyterian Hosp., New York.

GOETSCH, EMIL

S.B., Univ. of Chicago, 1903; Ph.D., *ibid.*, 1906; Fellow Asst. and Assoc. in Anat., *ibid.*, 1904-08; Research Asst., Dept. of Exp. Therapeutics, *ibid.*, 1908-09; Rush Med. Coll., 1906-07; M.D., Johns Hopkins, 1909; Asst. in Surg., *ibid.*, 1909-10; Asst. Res. Surg., *ibid.*, 1910-12; *Res. Surg., P. B. B. H., Sept. 1, 1912-Sept. 1, 1915*; Asst. in Surg., Harv., 1912-15; Assoc. in Surg., Johns Hopkins, 1915-18; Assoc. Prof. of Surg., *ibid.*, 1918-19; Prof. of Surg. and Surg.-in-Chief, Long Island Coll. Hosp., Brooklyn, New York; in practice, Brooklyn, New York.

GOLDEN, ROSS

A.B., Cornell (Mt. Vernon, Iowa), 1912; M.D., Harv., 1916; *Med. H. O., P. B. B. H., July 1, 1916-July 18, 1917*; Capt. and Major, M. C., U. S. Army, 1917-20; House Phys., X-ray Dept., M. G. H., 1920-21; *Asst. Res. Phys., P. B. B. H., July 1, 1921-April 15, 1922*;

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Visit. Phys., Roentgen-ray Dept., Presbyterian Hosp., New York;
Asst. Prof. of Med., Columbia Univ.

GOODALL, HARRY WINFRED

A.B., Dart., 1898; M.D., Harv., 1902; House Pupil, M. G. H., 1902-03; House Pupil, Boston Lying-In Hosp., 1903; *Assoc. in Med., P. B. B. H., Dec. 12, 1912-Dec. 31, 1917*; Lieut. Col., M. C., U. S. Army, 1917-19; Instr. in Med., Harv. Grad. Sch. of Med.; Phys., Boston Dispensary; Asst. Visit. Phys., N. E. Baptist Hosp.; in practice, Boston.

GOODPASTURE, ERNEST WILLIAM

A.B., Vanderbilt, 1907; M.D., Johns Hopkins, 1912; Rockefeller Fellow in Pathol., Johns Hopkins, 1912-14; Pathol., Union Protest. Infirmary, Baltimore, 1913-14; Asst. Res. Pathol., J. H. H., 1913-14; Act. Res. Pathol., *ibid.*, 1914-15; Instr. in Pathol., Johns Hopkins, 1914-15; *Res. Pathol., P. B. B. H., Sept. 1, 1915-Oct. 1, 1917*; Asst. Prof. Pathol., Harv.; Fellow in Pathol., Cancer Comm., *ibid.*; Lieut. (j. g.) M. C., U. S. N. R. F.; *Act. Pathol., P. B. B. H., Feb. 1-Aug. 15, 1920*; Chief, Dept. of Pathol. and Bacteriol., Univ. of Philippines, 1922; Pathol., Phil. Gen. Hosp., Manila, 1922; Director, William H. Singer Mem. Research Lab., Pittsburgh, 1922-24; Scholarship, Gen. Education Board of the Rockefeller Found. Inst. for Gen. and Exp. Pathol., Vienna, 1924-25; Prof. of Pathol., Vanderbilt Univ.

GORDON, BURGESS

A.B., Gonzaga Univ., 1912; M.D., Jefferson Med. Coll., 1919; Interne, Jefferson Hosp., 1919-21; *Asst. Res. Phys., P. B. B. H., Sept. 15, 1921-Aug. 1, 1922*; *Res. Phys., ibid., Aug. 1, 1922-Sept. 1, 1925*; Demonstr. of Med., Jefferson Med. College; Asst. Phys., O. P. D., Pennsylvania Hosp.; Med. Director, Dept. for Diseases of Chest, Jefferson Hosp., Philadelphia; in practice, Philadelphia, Pennsylvania.

GRANT, SAMUEL BECKER

B.S., Washington Univ., 1918; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., Oct. 16, 1920-March 1, 1922*; Med. H. O., J. H. H., March 1, 1922-May 1, 1922; *Asst. Res. Phys., P. B. B. H., April 15, 1922-Sept. 15, 1923*; Asst. in Clin. Med., Wash. Univ.; Asst. in Med., Barnes Hosp.; in practice, St. Louis, Missouri.

GRAVES, EDWIN G.

A.B., Univ. of Texas, 1920; M.D., Harv., 1924; *Med. H. O., P. B. B. H., July 1, 1924-July 1, 1925*; in practice, Houston, Texas.

GRAVES, ROGER COLGATE

A.B., Syracuse Univ., 1913; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., Aug. 15, 1918-Oct. 19, 1919*; Asst. Res. Surg., New Haven Hosp., New Haven, Connecticut, 1919-20; *Asst. Res. Surg., P. B. B. H., July 15, 1920-Aug. 1, 1921*; *Assoc. in Surg., ibid., Sept. 1,*

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1921-April, 1923; Cabot Fellow, Harv., in charge of Lab. of Surg. Research, Sept. 1, 1921-Sept. 1, 1922; Asst. Visit. Surg., Long Island Hosp.; Urologist, Carney Hosp.; Genito-Urinary Surg., Pondville State Hosp. for Cancer; Assoc. Consult. Urologist, Brockton Hosp.; in practice, Boston.

GRAY, HORACE

A.B., Harv., 1909; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., Nov. 1, 1914-March 1, 1916*; 1st Lieut., M. C., U. S. Army, 1917-19; Investigation in field of growth and diseases of metabolism and ductless glands, Chicago, Illinois.

GREEN, GEORGE F.

B.S., Univ. of Mich., 1922; M.D., *ibid.*, 1924; Asst. in Physiol., *ibid.*; Asst. in Med., B. C. H., IV. Med. Serv.; *Jr. Assoc. in Pathol., P. B. B. H., Oct. 1, 1924-Jan. 15, 1925*; Fellow in Surg., Mayo Foundation.

GREENE, JAMES A.

M.D., Harv., 1925; *Med. H. O., P. B. B. H., Nov., 1925-March, 1926*.

GREENE, THEODORE C.

A.B., Harv., 1920; M.D., *ibid.*, 1924; Asst. in Pathol., Johns Hopkins, Sept., 1924-Jan., 1925; *Surg. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Presbyterian Mission, Peking, China.

GREENSPON, EDWARD A.

M.D., McGill Univ., 1916; House Bacteriol., Royal Victoria Hosp., Montreal, 1916-17; Asst. Res. Pathol., Johns Hopkins, 1917-18; Capt., Canadian Army Med. Corps; *Res. Pathol., P. B. B. H., Oct. 1, 1919-April 1, 1920*; *Med. H. O., ibid., April 1, 1920-July 1, 1921*; May Fellow in Med. Research, Johns Hopkins; Asst. in Med., *ibid.*, 1921-23; Jr. Attend. Phys., Montreal Gen. Hosp.; in practice, Montreal, Canada.

GREY, ERNEST

A.B., Univ. of Wis., 1907; Asst. in Anat., *ibid.*, 1907-08; Stud. in Med., *ibid.*, 1907-08; M.D., Johns Hopkins, 1911; Res. H. O., *ibid.*, 1911-12; *Surg. H. O., P. B. B. H., Nov. 1, 1912-Feb. 12, 1914*; Asst. Res. Surg., *ibid.*, Feb. 12, 1914-Sept. 1, 1916; Asst. in Surg., Harv., 1915-16; Instr. in Surg., Johns Hopkins. *Died Oct. 12, 1918*.

HALE, WORTH

A.B., Univ. of Mich., 1908; M.D., *ibid.*, 1904; *Assoc. in Med., P. B. B. H., Nov. 1, 1917-Dec. 31, 1918*; Assoc. Prof. of Pharm. and Asst. Dean, Harv.

HALLER, DAVID ALEXANDER

A.B., Hampden-Sidney, 1908; M.D., Columbia, 1913; *Med. H. O., P. B. B. H., Nov. 1, 1913-March 1, 1915*; Asst. Res. Phys., *ibid.*, March 1, 1915-Oct. 1, 1916; Res. Phys., *ibid.*, Oct. 1, 1916-June 6,

PETER BENT BRIGHAM HOSPITAL

1917; Major, M. C., U. S. Army, 1917-19; Junior Attend. Phys., Hahnemann Hosp., 1920-21; Internist for the Rochester Clinic, Rochester, New York, 1919-25; Asst. Phys., Rochester Gen. Hosp.; Phys. to Baden St. Disp., 1924-25; Instr. in Med., Univ. of Rochester Med. Sch.; Asst. Phys., Strong Mem. Hosp., Rochester, New York; Chief, Med. Serv., Rochester Gen. Hosp.; in practice, Rochester, New York.

HANSMANN, GEORGE H.

M.D., Univ. of Iowa, 1918; Hosp. Chem., Iowa Univ. Hosp., 1918-19; Clin. Asst., Dept. of Internal Med., *ibid.*, 1919-20; Lect. in Clin. Microscopy, *ibid.*, 1920-21; *Res. Pathol.*, P. B. B. H., Sept. 15, 1921-Sept. 15, 1923; Pathol., Iowa Univ. Hosp.

HARBIN, ROBERT MAXWELL

B.S., Univ. of Georgia, 1916; M.D., Harv., 1920; *Surg. H. O.*, P. B. B. H., Nov. 1, 1920-March 1, 1922; H. O., Children's Hosp., 1922-23; Jr. Surg., Harbin Hosp., 1923-25; Assoc. in Orthopedic Surg., Lakeside Hosp.; Surg. in Charge, Rainbow Hosp.; Asst. Prof. Orthopedic Surg., Western Reserve Univ. School of Med.

HARRISON, TINSLEY RANDOLPH

A.B., Univ. of Mich., 1919; M.D., Johns Hopkins, 1922; *Med. H. O.*, P. B. B. H., Nov. 1, 1922-March 1, 1924; *Asst. Res. Phys.*, *ibid.*, March 1-Sept. 1, 1924; Asst. in Med., Johns Hopkins; Res. Phys., Vanderbilt Univ. Hosp., Nashville, Tennessee; Instr. in Med., *ibid.*, 1926-27 (*leave of absence*, 1927-28).

HARVEY, SAMUEL CLARK

Ph.B., Yale, 1907; M.D., *ibid.*, 1911; Alonzo Clark Fellow, Columbia, 1911-12; Instr. in Pathol., *ibid.*, 1912-13; Asst. Res. Phys., Loomis Sanitarium, Loomis, New York, 1913-14; *Surg. H. O.*, P. B. B. H., Nov. 1, 1914-Nov. 1, 1915; Arthur Tracy Cabot Fellow, in charge of Lab. of Surg. Research, Harv., 1915-16; *Asst. Res. Surg.*, P. B. B. H., Nov. 1, 1916-May 7, 1917; Major, M. C., U. S. Army, 1917-19; Res. Surg., New Haven Hosp.; Instr. in Surg., Yale, 1919-20; Asst. Prof. of Surg., *ibid.*, 1920-21; Assoc. Prof. of Surg., *ibid.*, 1921-23; Surgeon-in-Chief, New Haven Hosp. and New Haven Disp.; Prof. of Surg., Yale.

HATCH, FLOYD FROST

A.B., Univ. of Utah, 1912; M.D., Harv., 1914; *Med. H. O.*, P. B. B. H., March 1, 1914-Jan. 4, 1915 (*granted leave of absence from Jan. 4-Feb. 28, 1915*); Surg. House Pupil, M. G. H., 1915-16; House Surg., *ibid.*, 1916-17; Surg. to G. U. Dept., Salt Lake County Hosp., 1917-18; Surg. to G. U. Dept., L. D. S., Hosp., Salt Lake City, Utah; 1st Lieut., M. C., U. S. Army, 1918-19; Asst. County Phys., Salt Lake County Hosp., and Asst. Visit. Surg., *ibid.*, 1921-22; Surg., Inter-Mountain Clin.; in practice, Salt Lake City, Utah; Post-Grad. study of Surg., Europe, 1926-27.

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H'DOUBLER, FRANCIS TODD

B.A., Univ. of Wis., 1907; M.A., *ibid.*, 1908; Ph.D., *ibid.*, 1910; Stud., Univ. of Wis. Med. Sch., 1 year; Stud., Rush Med. Sch. and Univ. of Philippines, 1 year; M.D., Harv., 1915; H. O., Augustana Hosp., Chicago, 1915-16; *Med. H. O., P. B. B. H., Jan. 11, 1916-March 1, 1917*; H. O., Augustana Hosp., 1917-18; 1st Lieut. and Capt., M. C., U. S. Army, 1918-19; Moseley Travelling Fellow, Harv., 1919-20; Lakeside Hosp., Cleveland, Ohio, 1921; Instr. in Pathol. and Surg., Univ. of Ill., 1921-24; Jr. Attend. Surg., Augustana Hosp., Chicago; in practice, Chicago; Attend. Surg., St. John's, Burge Deaconess, and Springfield Baptist Hospitals; Instr., Bacteriol., S. W. T. Coll., Springfield, Missouri; in practice, Springfield, Missouri.

HEAD, JEROME R.

M.D., Harv., 1922; *Surg. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923*; Surg. Pathol., Mayo Clin., Rochester, Minnesota, 1924; Res. Surg., State of Wis. Gen. Hosp., Madison, 1924-26; Instr. in Surg., Univ. of Ill.; in practice, Chicago, Illinois.

HERRICK, THEODORE POMEROY

AB., Yale, 1915; M.D., Harv., 1919; *Med. H. O., P. B. B. H., Dec. 26, 1918-Jan. 1, 1920*; Med. H. O., Children's Hosp., Boston, 1920; H. O., Infants' Hosp., Boston, 1921; Res. Pediatrician, Rainbow Hosp., 1921-24; Asst. Visit. Pediatrician, St. Luke's Hosp., Cleveland, 1922-23; Asst. Visit. Pediatrician, St. Vincent's Charity Hosp., Cleveland, Ohio; in practice, Cleveland, Ohio.

HERRMANN, GEORGE R.

B.S., Univ. of Mich., 1916; M.D., M.S., *ibid.*, 1918; Ph.D., *ibid.*, 1922; *Med. H. O., P. B. B. H., Oct. 1, 1918-Oct. 1, 1919*; Asst. Res. Phys., Barnes Hosp., 1919-20; Res. Phys., *ibid.*, and Asst. in Med., Wash. Univ., St. Louis, 1920-21; Instr. in Med., Univ. of Mich., and Asst. Prof. Med., *ibid.*, 1921-25; Asst. Prof. of Med., Tulane Univ., New Orleans, Louisiana.

HERRMANN, LOUIS G.

A.B., Univ. of Mich., 1920; M.D., Wash. Univ. Med. Sch., 1924; Interne, Maryland Gen. Hosp., Baltimore, July 1, 1924-March 1, 1925; *Med. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Asst. Res. Surg., Lakeside Hosp., Cleveland, Ohio, 1926-27; Crile Research Fellow in Surg. and Director, Lab. of Surg. Research, Western Reserve Univ. and Lakeside Hosp.

HJORT, AXEL MAGNUS

A.B., Univ. of Ill., 1914; M.S., *ibid.*, 1915; Ph.D., Yale, 1918; M.D., Yale Univ. Med. Sch., 1921; *Med. H. O., P. B. B. H., July 1, 1921-Nov. 1, 1922*; Parke Davis & Co., Detroit, Michigan, 1923-26; Prof. Pharmacology, Dart. Med. Sch., Hanover, New Hampshire.

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HODGSON, JOHN SPRAGUE

Ph.B., Brown, 1911; M.D., Harv., 1917; Surg. House Pupil, M. G. H., 1915-16; Res. Surg., *ibid.*, 1916; *Surg. H. O., P. B. B. H., Nov. 1, 1916-March 1, 1917; Asst. Res. Surg., ibid., March 1-June 22, 1917; 1st Lieut., M. C., U. S. Army, 1917-19; Typhus Work in Macedonia, 1919; Res. Surg., M. G. H., 1920; Surg., O. P. D.; Second in Neurol. Surg., M. G. H.*

HOLMAN, EMILE

A.B., Stanford Univ., 1911; Univ. of Oxford, 1916; Med. Stud., Oxford Univ., Royal College of Surgeons, Edinburgh, Rotunda Hosp., Dublin, National Hosp., London, 1914-17; M.D., Johns Hopkins, 1918; Res. Med. Officer, Children's Hosp. Sch., 1918-19; Asst. Res. Surg., J. H. H., 1919-21; Res. Surg., *ibid.*, 1921-23; Instr. in Surg., J. H. M. S., 1920-23; *Asst. Res. Surg., P. B. B. H., July 15-Sept. 1, 1923; Res. Surg., ibid., Sept. 1, 1923-July 1, 1924; Austin Teach. Fellow, Harv., 1923-24; Attend. Surg., Lakeside Hosp. and Asst. Prof. of Surg., Western Reserve Univ., Cleveland, Ohio, July, 1924-Dec., 1925; Assoc. Prof. Surg., Stanford Univ. Med. Sch., 1925-26; Attend. Surg., Stanford Univ. Hosp., San Francisco; Prof. of Surg., Exec. Head, Dept. of Surg., Stanford Univ. Med. School.*

HOUSTON, JR., DAVID WALKER

A.B., Princeton, 1912; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., July 1, 1916-Nov. 1, 1917; Asst. Res. Surg., ibid., Nov. 1, 1917-Feb. 8, 1918; 1st Lieut., M. C., U. S. Army, 1918-19; Attend. Surg., Samaritan Hosp., Troy, New York; in practice, Troy, New York.*

HOWARD HERBERT BURR

A.B., Harv., 1881; M.D., *ibid.*, 1884; Asst. Phys., State Infirmary, Tewksbury, Massachusetts, 1884-85; in practice, Idaho Springs, Colorado, 1885-87; Asst. Phys., State Infirmary, 1887-91; Supt., *ibid.*, 1891-97; Res. Phys., M. G. H., 1897-1908; *Supt., P. B. B. H., May 1, 1908-May 1, 1919 (retired—age limit); Mem., Mass. State Bd. of Insanity, 1898-1913 (Chairman, 1908-13); Pres., American Hosp. Assoc., 1909-10; Trustee, State Colony for the Insane, Gardner, Massachusetts. Died March 6, 1923.*

HUDSON, RICHARD T.

B.S., Univ. of Louisville, 1920; M.D., *ibid.*, 1924; 1 year rotating internship, Louisville City Hosp.; Asst. Res. Surg., Louisville City Hosp.; *H. O., Roentgenology, P. B. B. H., Aug. 1-Oct. 12, 1926.*

HUMISTON, HOMER W.

B.S., Univ. of Ill., 1923; M.D., Harv., 1925; *Med. H. O., P. B. B. H., July 1, 1925-Nov. 1, 1926; Fellow in Surg., Mayo Clin., Rochester, Minnesota.*

HURWITZ, SAMUEL HAYMANN

A.B., Harv., 1907; A.M., *ibid.*, 1908; Special Stud., Univ. of Strassburg, Germany, 1909-10; Spec. Student, Inst. of Infectious Dis-

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eases, Berlin, Germany, summer of 1911; M.D., Johns Hopkins, 1912; Res. H. O., J. H. H., 1912-13; *Surg. H. O., P. B. B. H., Nov. 1, 1913-March 1, 1915*; Instr. in Research Med., Univ. of Calif., 1915-17; Asst. Clin. Prof. of Med., *ibid.*, 1917-26; Asst. Clin. Prof. of Med., Stanford Univ. Med. School.

JACK, EDWIN EVERETT

A.B., Harv., 1884; M.D., *ibid.*, 1887; *Act. Consult. Ophthalmologist, P. B. B. H.*; Consult. Ophthalmologist, Mass. Eye and Ear Infirm.; in practice, Boston.

JACK, WILLIAM DAVID

A.B., Creighton, 1908; Grad. Stud., Univ. of Chicago, 1909-10; M.D., Johns Hopkins, 1914; *Surg. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915*; Capt. and Asst. Surg., 2nd Harv. Unit, B. E. F., France, 1915-16; Asst. Res. Urologist, J. H. H., 1916-17; Capt., M. C., U. S. Army and Consult. Urologist, A. E. F., 1917-19; Asst. Res. Surg., and Res. Urol., J. H. H., 1919-21; in practice, Chicago, Illinois.

JACKSON, HOWARD BURR

A.B., Harv., 1915; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., March 15, 1919-April 1, 1920*; H. O., Surg. and Obstet. Services, Mass. Homœopathic Hosp., 1920; Asst. Phys. to Out-Patients, M. G. H.; Phys., Boston Dispensary; in practice, Jamaica Plain, Massachusetts.

JACOBSON, CONRAD

B.S., Beloit, 1900; Grad. Stud., 3 summer qrs., Univ. of Chicago; Asst. Prof. of Chem. and Bacteriol., Armour Inst. of Tech., 1903-05; Research Asst. in Pathol., Univ. of Chicago, 1907-08; M.D., Johns Hopkins, 1911; Asst. in Surg., Hunterian Lab., *ibid.*, 1911-12; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1912-Sept. 1, 1915*; *Res. Surg., ibid., Sept. 1, 1915-July 1, 1920*; Asst. in Surg., Harv.; Assoc. Prof. of Surg., Univ. of Minn. Med. Sch., 1920-22; in practice, Seattle, Washington.

JACOBSON, VICTOR CLARENCE

B.S., Univ. of Wis., 1915; M.D., Harv., 1917; *Med. H. O., P. B. B. H., July 18, 1917-July 1, 1918*; 1st Lieut., M. C., U. S. Army, 1918; *Pathol. H. O., P. B. B. H., Jan. 1-July 1, 1919*; *Res. Pathol., ibid., July 1-Oct. 1, 1919*; Asst. Prof. of Pathol., Univ. of Wisconsin, 1919-20; *Res. Pathol., P. B. B. H., July 1, 1920-Sept. 1, 1921*; Instr. in Pathol., Harv., 1920-21; Pathol., Albany Hosp., and Child's Hosp.; Prof. of Pathol., Union Univ., Albany, New York.

JAMESON, CHARLES HAROLD

A.B., Harv., 1916; M.D., *ibid.*, 1919; *Surg. H. O., P. B. B. H., June 15, 1919-Nov. 1, 1920*; Free Hosp. for Women, Brookline, 1920-21; *Asst. Res. Surg., P. B. B. H., Feb. 14-June 15, 1921*; *Asst. Res. Surg., ibid., Sept. 15, 1921-June 21, 1922*; in practice, Providence, Rhode Island.

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JANNEY, JAMES CRAIK

A.B., Harv., 1911; M.D., *ibid.*, 1915; *Surg. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916*; Asst. Surg., Free Hosp. for Women, O. P. D., Brookline; Capt., M. C., U. S. Army; H. O., Boston Lying-In Hosp., 1923; Fellow, Am. Coll. Surgs., 1926; in practice, Boston.

JOELSON, JAMES J.

M.D., Columbia, 1920; Surg. Interne, Presbyterian Hosp., New York, 1920-22; *Asst. Res. Surg., P. B. B. H., July 15, 1922-July 26, 1923*; Asst. Res. Surg., New Haven Hosp., and Instr. in Surg., Yale, 1923-24; Asst. Res. Surg. (G. U. Surg.) Lakeside Hosp., 1924-25; Demonstr. in G. U. Surg., Western Reserve Univ., Cleveland, Ohio, 1924-25; Instr. in G. U. Surg., *ibid.*; Asst. G. U. Surg., Lakeside Hosp.

JONES, MERRITT LACOUNT

S.B., Univ. of Wis., 1912; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916*; *Asst. Res. Surg., ibid., Nov. 1, 1916-March 1, 1917*; Capt., M. C., U. S. Army, 1917-19; in practice, Wausau, Wisconsin.

JONES, WILFRED GRANT

B.S., College of Wooster, Wooster, Ohio, 1921; M.D., Harv., 1924; *Med. H. O., P. B. B. H., May 15, 1924-March 1, 1925*; Missionary work, Miraj, India.

KAZANJIAN, VARAZTAD H.

D.M.D., Harv., 1905; M.D., *ibid.*, 1921; Mem., Harv. Unit, B. E. F., 1915-16; Surg. Specialist for Wounds of Jaws and Face, B. E. F., 1916-19; C. M. G.; *Dental Surg., P. B. B. H., Jan. 22, 1920-Dec., 1922*; Prof. of Clin. Oral Surg., Harv.; Visit. Surg., Oral and Plastic Surg., B. C. H.; Asst. Surg. in Oto-Laryngology, Mass. Eye and Ear Infirm.; Consult. Oral Surg., Camb. Hosp.; Mem. of Staff, Consult. Surgeons, Newport Hosp., Newport, Rhode Island; Attend. Specialist, U. S. P. H. S.; Asst. Laryngologist, Huntington Mem. Hosp.; Asst. Laryngologist, M. G. H.; in practice, Boston.

KEBABJIAN, HRANT SETRAG

A.B., Anatolia Coll. (Armenia), 1913; M.D., Harv., 1918; Admitting Phys., Babies' Ward, Post Grad. Hosp., New York, 1918; *Surg. H. O., P. B. B. H., Nov. 15, 1918-March 1, 1920*; City Phys., Buffalo, New York, 1920-21; Director, Comm. on Hosps. in Cilicia, 1921-22; Asst. Res., Long Island Hosp., Boston Harbor, 1922-26; in practice, Boston.

KEEGAN, JOHN JAY

A.B., Univ. of Neb., 1912; A.M., *ibid.*, 1914; M.D., *ibid.*, 1915; Instr. in Anat., *ibid.*, 1915-17; *Pathol. H. O., P. B. B. H., June 15, 1917-Dec. 15, 1917*; Lieut., M. C., U. S. Navy, 1917-19; *Surg. H. O., P. B. B. H., Aug. 13, 1919-Nov. 1, 1920*; Asst. Prof. of Pathol., Univ. of Neb., 1920-23; Prof. Clin. Pathol., Director of Clinics,

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Sec. of the Faculty, *ibid.*, 1923; Neuro-surg., Univ. Hosp.; Dean, Coll. of Med., Univ. of Nebraska; in practice, Omaha, Nebraska.

KEYSER, LINWOOD DICKENS

B.A., Virginia, 1914; M.D., Johns Hopkins, 1918; H. O., J. H. H., 1918-19; *Asst. Res. Surg., P. B. B. H., July 1-Nov. 1, 1919*; Res. Surg., New York Post Grad. Hosp., New York City, 1920; Fellow, Mayo Foundation, Rochester, Minnesota, 1920-23; M.S., Mayo Foundation; Univ. of Minn. Grad. Sch. in Med., 1921; Surg. and Urol., Lewis Gale Hosp. Clin., Roanoke, Virginia; in practice, Roanoke, Virginia.

KING, DONALD STORRS

A.B., Oberlin, 1912; M.D., Harv., 1918; H. O., Orthopedic Serv., Children's Hosp.; 1st Lieut., M. C., U. S. Army, 1918-19; Med. H. O., M. G. H., 1919-21; *Assoc. in Pathol., P. B. B. H., May 24, 1921-May 24, 1922*; Fellow in Med., Harv., 1923; Asst. in Med., *ibid.*; Asst. in Med., M. G. H.; Asst. Phys. to Out-Patients, M. G. H.; in practice, Boston.

KING, WILLIAM ROBERT

B.S., Univ. of Minn., 1913; M.D., Harv., 1917; *Med. H. O., P. B. B. H., July 1, 1917-Feb. 1, 1918*; *Asst. Res. Phys., ibid., Feb. 1-Oct. 24, 1918*; in practice, Minneapolis, Minnesota.

KINNEY, KENNETH K.

M.D., Univ. of Iowa, 1921; Surg. Interne, 1 year, Seattle Gen. Hosp.; private practice, 3 years; *H. O., X-ray Dept., P. B. B. H., Oct. 1, 1925-April 1, 1926*; *Asst. Res. Roent., April 1-Oct. 1, 1926*.

KINSMAN, JAMES MURRAY

B.A., Mt. Allison Univ., Sackville, N. B., 1918; M.D., C.M., McGill Univ., 1922; Pathol. Interne, Royal Victoria Hosp., 1922-23; Demonstr. in Pathol., McGill Univ., 1922-23; *Med. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924*; Asst. Res. Med., New Haven Hosp., New Haven, Connecticut; Phys., Med. Service, Louisville, Kentucky; Instr. in Med., Univ. of Louisville.

KIRKWOOD, ALLAN STEWART

M.D., Univ. and Bellevue Hosp. Med. Coll., New York, 1913; *Assoc. in Med., P. B. B. H., Nov. 1-Dec. 31, 1917*; Major, M. C., U. S. Army; Phys. to Tuberculosis Clin., O. P. D., Mountainside Hosp., Montclair, New Jersey; Neuro-Psychiatrist, *ibid.*; Visit. Phys., St. Vincent's Hosp., Montclair; in practice, Montclair, New Jersey.

KOEFOD, HILMAR OLAF

B.S., Beloit, 1911; M.D., Harv., 1916; Moseley Travelling Fellowship, *ibid.*, in Europe, summer of 1916; *Med. H. O., P. B. B. H., Nov. 1, 1916-Nov. 1, 1917*; 1st Lieut., M. C., U. S. Army, 1917-18; Chief of Clin. at Mem. Lab. and Clin., Santa Barbara, Cal.; Asst. in Med., Med. Sch., Univ. of Cal.; Asst. to Prof. H. C. Moffit in

PETER BENT BRIGHAM HOSPITAL

his private work; Chief of Med. Dept., Santa Barbara Clin.; Attend. Phys., Cottage Hosp., Santa Barbara, Cal.; in practice, Santa Barbara, California.

KOHN, LAWRENCE A.

A.B., Williams, 1914; work in Bacteriol. with Dr. Park, New York, 1914-17; work in Bacteriol. with army in France, 1917-19; 1st Lieut., San. Corps, 1918-19; M.D., Johns Hopkins, 1923; Med. Interne, *ibid.*; Asst. Res. Phys., P. B. B. H., Sept. 15, 1924-Sept. 1, 1925; Instr. in Med., Univ. of Rochester; Res. Phys., Strong Mem. Hosp., Rochester, New York, 1925-27; Instr. in Med., Univ. of Rochester; in practice, Rochester, New York.

KREUTZMANN, HENRY ADOLPH ROBERT

M.D., Univ. of Pa., 1916; *Surg. H. O.*, P. B. B. H., March 1, 1917-Feb. 4, 1918; Lieut., M. C., U. S. Army; Instr. in Urol., Univ. of Cal.; Urologist for N. W. P. R. R.; Chief Urol., Chinese Hosp., San Francisco; Instr. in Urol., Stanford Univ.; in practice, San Francisco, California.

LADD, WILLIAM SARGENT

B.S., Amherst, 1910; M.D., Columbia, 1915; *Med. H. O.*, P. B. B. H., Nov. 1, 1915-March 1, 1917; Asst. Phys., Presbyterian Hosp., New York, and Instr. in Med., Columbia, 1918-19; 1st Lieut., M. C., U. S. Army; Asst. in Med., J. H. H., and Instr. in Med., Johns Hopkins, 1919-21; Instr. in Med., Columbia, 1921-24; Assoc. in Med., *ibid.*; Asst. Phys., Presbyterian Hosp., New York.

LAMSON, PAUL DUDLEY

A.B., Harv., 1905; M.D., *ibid.*, 1911; Med. House Pupil, M. G. H., 1909-10; Lect. Asst. in Pharm., Univ. of Wurzburg, Germany, 1912-13; Sheldon Travelling Fellow, Harv., 1911-13; Asst. Res. Phys., P. B. B. H., Oct. 1, 1913-Oct. 15, 1914; Asst. in Exp. Therapeutics, Johns Hopkins, 1914-15; Assoc. in Pharmacology, *ibid.*, 1916-20; Assoc. Prof. Pharmacology, *ibid.*, 1921-25; Prof. Pharmacology, Vanderbilt Univ. Sch. of Med.

LANMAN, THOMAS HINCKLEY

A.B., Harv., 1912; M.D., *ibid.*, 1916; *Assoc. in Urol.*, P. B. B. H., March 22, 1920-June 26, 1922; Asst. Surg., Children's Hosp., Boston; in practice, Boston.

LEHMAN, EDWIN PARTRIDGE

A.B., Williams, 1910; M.D., Harv., 1914; *Surg. H. O.*, P. B. B. H., July 1, 1914-July 1, 1915; Asst. Res. Surg., Barnes Hosp., St. Louis, Missouri, 1915-16; Asst. in Surg., Washington Univ., 1916-20; 1st Lieut., M. C., U. S. Army, 1917-19; Res. Surg., Barnes Hosp., St. Louis, 1919-20; Asst. Surg., Barnes Hosp.; Visit. Surg., Jewish Hosp.; Surg. to Out-Patients, Washington Univ. Disp.; Assoc. Prof. of Clin. Surg., Washington Univ.; in practice, St. Louis, Missouri.

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LEWIS, EDWIN RAY

M.D., Boston Univ., 1901; Asst. Surg., Clinton Hosp., 1907; Asst. Supt., Mass. Homœopathic Hosp., 1909; Act. Supt., *ibid.*, 1916; Supt., Hahnemann Hosp., Rochester, New York, 1916; Supt., Flower Hosp., 1919-20; Capt., M. C., U. S. Army, 1918-19; *Second Asst. Supt.*, *P. B. B. H.*, April 11, 1921-Oct. 1, 1923; Supt., Easton Hosp., Easton, Pennsylvania, 1923-26; Supt., Burbank Hosp., Fitchburg.

LIEB, CLARENCE WILLIAM

A.B., Colorado, 1908; A.M., *ibid.*, 1909; M.D., Harv., 1914; *Pathol. H. O.*, *P. B. B. H.*, April 1-June 6, 1914 (*resigned*); Med. Director, "The Glen Springs," Watkins, New York, 1914-17 (*resigned*); in practice, Gastro-enterology, New York.

LIEBMAN, CHARLES

Ph.B., Yale, 1917; M.D., Harv., 1921; X-ray Dept., Base Hosp., Camp Devens; X-ray Dept., Mass. Eye and Ear Inf.; X-ray Dept., New Haven Hosp.; *X-ray H. O.*, *P. B. B. H.*, June 1, 1921-July 1, 1922; Roentgenologist, Children's Hosp., Boston; Asst. Roent., Beth Israel Hosp., Boston.

LOCKE, JR., CHARLES EDWARD

A.B., M.S., Univ. of Cal., 1916; M.D., *ibid.*, 1919; S.D. (*en Chirurgie*), Univ. of Brussels, 1922; Med. and Surg. H. O., Univ. of Cal. Hosp., 12 mos.; *Asst. Res. Surg.*, *P. B. B. H.*, June 15, 1920-June 1, 1921; Asst. on Visit. Surg. Staff, Dr. Depage's Service, St. Pierre Hosp., Brussels; Asst. Etranger, Prof. Pierre Marie's Serv., Salpêtrière, Paris, 1921-22; Fellow, C.R.B., Educational Foundation, 1921-22; Asst. in Dept. of Surg., Univ. of Cal. Med. Sch.; Staff of University Hospital; Fellow, National Research Council, 1922-23; Full-time Instr., in Surg., Univ. of Cal.; Staff, Hooper Research Foundation, 1923-24; Neurol. Surg., Cleveland Clinic, Cleveland, Ohio.

LOURIA, HENRY WALTER

A.B., Columbia, 1916; M.D., *ibid.*, 1919; Surg. H. O., Presbyterian Hosp., New York, 1919-20; *Med. H. O.*, *P. B. B. H.*, July 1, 1920-Oct. 1, 1921; Stud., M. I. T., 1921; Med. Interne, J. H. H., 1921-22; Asst. Surg., Brooklyn Jewish Hosp.; Instr. in Surg., Coll. of Phys. and Surg.; in practice, Brooklyn, New York.

LYLE, EVELINE BURTON

B.A., Mt. Holyoke Coll., 1906; M.D., Tufts Coll. Med. Sch., 1913; *Act. Assoc. in Med.*, *P. B. B. H.*, Nov. 1-Dec. 31, 1917; Visit. Phys. and Obstetrician, N. E. Hosp. for Women and Children; Med. Examiner for Winsor School, Milton Academy Girls' School, Brookline High School Girls, Boston University School of practical Arts, Penn. Mutual Life Insurance Co., John Hancock Life Ins. Co., United Life and Accident Insurance Co.; in practice, Boston.

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LYNCH, JR., JAMES JOSEPH

B.S., Notre Dame Univ., 1915; M.D., Harv., 1919; H.O., Boston Lying-In Hosp., 1919; *Med. H. O., P. B. B. H., July 1, 1919-July 1, 1920*; H. O., Cambridge City Hosp., 1920-21; Jr. Visit. Obstetrician, St. Elizabeth's Hosp.; Jr. Asst. Surg., Boston Disp.; in practice, Boston.

LYON, DON DEE

S.B., Wash. Univ., 1914; M.D., Harv., 1920; H. O. Huntington Hosp., 1919-20; Interne, Bridgeport Hosp., 1920-21; *Surg. H. O., P. B. B. H., March 1, 1921-July 1, 1922*; Res. Phys., Blodgett Mem. Hosp., Grand Rapids, Mich.; Int. Med., Grand Rapids Clin., 1924-25; in practice, Bridgeport, Connecticut.

MALLORY, TRACY BURR

M.D., Harv., 1921; *Med. H. O., P. B. B. H., March 1, 1922-July 1, 1923*; Instr. in Bacteriol., Harv., 1924-26; Instr. in Path., *ibid.*; Pathol., M.G.H.

MARINUS, CARLETON J.

B.Sc., Syracuse, 1915; M.Sc., *ibid.*, 1917; M.D., Univ. of Mich., 1921; *Med. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923*; in practice, Detroit, Michigan.

MARKHAM, BLACKWELL

A.B., Univ. of N. C., 1917; M.A., *ibid.*, 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923*; Res. Surg., Fifth Ave. Hosp., 1923-24; in practice, Durham, North Carolina.

MARLOW, SEARLE BISSET

A.B., Harv., 1912; Stud., Harv., 1 year; M.D., Syracuse, 1916; *Pathol. H. O., P. B. B. H., July 1, 1916-June 11, 1917*; Capt., M. C., U. S. Army, 1918-19; House Surg., Herman Knapp Hosp., New York, 1920-21; Asst. Prof. of Ophthal., Syracuse Univ.; Ophthalmologist, Syracuse Free Disp., St. Joseph's Hosp., General Hosp., and Syracuse Mem. Hosp.; in practice, Syracuse, New York.

MARTIN, PAUL

S.B., Brussels, 1911; M.D., *ibid.*, 1920; Med. Interne, Hosp. St. Pierre, Brussels, 1919-20; Surg. Interne, New Haven Hosp., 1920-21; *Assoc. in Surg., P. B. B. H., Sept. 1, 1921-March 1, 1922*; *Asst. Res. Surg., ibid., March 1-Nov. 1, 1922*; Asst. in Surg., Brussels Univ. Hosp.; in practice, Brussels, Belgium.

MARVIN, FRANK WILLIAM

A.B., Harv., 1910; M.D., *ibid.*, 1914; House Pupil, M. G. H., 1914-15; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1916*; in practice, Boston.

MARVIN, HAROLD MYERS

A.B., Davidson Coll., 1914; M.D., Harv., 1918; *Med. H. O., P. B. B. H., Feb. 13, 1918-Feb. 9, 1919*; Dist. Phys. with Near East Re-

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lief, Alexandropol, Armenia, 1919-20; Asst. in Med., Harv.; Asst. in Med., M. G. H., 1920-21; Instr. in Med., Yale, 1921-23; Asst. Prof. of Med., *ibid.*; Fellow, John Simon Guggenheim Memorial Foundation, 1926-27 (in laboratory of Sir Thomas Lewis, Univ. of Coll. Hosp. Med. School, London).

MCCANN, WILLIAM SHARP

A.B., Ohio State Univ., 1911; M.D., Cornell, 1915; Asst. Res. Phys., Gen. Mem. Hosp., New York, 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-Nov. 1, 1916 (resigned)*; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv.; Capt., M. C., U. S. Army; Instr. in Med., Cornell; Research Fellow, Russell Sage Inst. of Pathol.; Adjunct Visit. Phys., Bellevue Hosp., New York; Assoc. Phys., J. H. H., Baltimore, Md.; Assoc. in Med., Johns Hopkins; Assoc. Prof. Med., *ibid.*; Prof. of Med., Univ. of Rochester, Rochester, New York.

MCCARTHY, PATRICK THOMAS

B.S., Univ. of Chicago, 1914; M.D., Rush Med. Coll., 1917; *Surg. H. O., P. B. B. H., Dec. 15, 1917-Oct. 1, 1918; Asst. Res. Surg., ibid., Oct. 1, 1918-Feb. 9, 1919*; Relief Comm., Near East, Armenia, 1919-20; Post Grad. Study in Europe, 1920; Urol. and Surg., Western Montana Clin., Missoula, Montana; in practice, Missoula.

MCCARTY, ELBA DENTON

M.D., Univ. of Mich., 1903; Interne, 2 years, St. Mary's Hosp., Saginaw, E. S., Mich.; Gen. Practice, Merrill, Mich., 1905-09; Priest River, Idaho, 1909-17; *Roentgenologist, P. B. B. H., July 1, 1918-Oct. 14, 1919*; in practice, Tacoma, Washington.

MCCLURE, CHARLES WALTER

A.B., Ohio State Univ., 1906; M.D., Starling Med. Coll., Ohio, 1910; Med. H. O., St. Francis Hosp., Columbus, Ohio, 1910-11; Asst. in Clin. Med., Starling Med. Coll., 1911-12; Asst. in Med., Univ. of Iowa Med. Sch., 1912-15; Grad. Stud. in Med., Harv., 1915-16; *Asst. Res. Phys., P. B. B. H., July 1-Nov. 1, 1916*; Alumni Asst. in Med., Harv.; *Res. Phys., P. B. B. H., June 7-July 6, 1917*; Phys.-in-Chief, St. Luke's Hosp., South Bethlehem, Pa., 1917-18; Capt., M. C., U. S. Army, 1918; *Assoc. in Med., P. B. B. H., Feb. 13, 1919-Sept. 1, 1921*; Research Worker, Evans Mem. and Gastroenterologist to O. P. D., Mass. Homœopathic Hosp., Boston; in practice, Boston.

McKEAN, RICHARD M.

A.B., Univ. of Mich., 1916; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., Dec. 15, 1919-March 1, 1921*; H. O., Infants' Hosp., Boston, 1921; Jr. Phys., Detroit Receiving Hosp., 1921-22; Assoc., *ibid.*; Instr. in Int. Med., Detroit Coll. of Med. and Surg.; Attend. Phys. and Director of Metabolic Unit, Detroit Receiving Hosp.; Jr. Phys., Harper Hosp.; in practice, Detroit, Michigan.

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McKENZIE, KENNETH G.

M.B., Toronto; M.D., *ibid.*, 1914; Interne, Toronto Gen. Hosp., 1914; Capt., Imp. Army M. C., 1914-19; Instr. in Anat., Univ. of Toronto, 1919 (on leave of absence to work with Dr. Cushing under the Mickle Fellowship of Toronto Univ.); *Asst. Res. Surg., P. B. B. H., Nov. 1, 1922-Nov. 1, 1923*; Surg. Staff, Toronto Gen. Hosp.; in practice, Toronto, Canada.

McQUESTEN, PHILIP

A.B., Dart., 1911; M.D., Harv., 1915; Stud., B. C. H. (Pathol. Lab.), 1915-16; *Surg. H. O., P. B. B. H., March 1, 1916-July 1, 1917*; *Asst. Res. Surg., ibid., July 1-Aug. 17, 1917*; in practice, Nashua, New Hampshire.

MILLET, JOHN ALFRED PARSONS

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., Nov. 1, 1914-March 1, 1916*; Internist, New York State Inst. for the Study of Malignant Disease, Buffalo, 1916-20; Capt., M. C., U. S. Army, 1917-19; Asst. Attend. Phys., Buffalo Gen. Hosp.; Assoc. in Med., Buffalo Univ. Med. Sch., and Asst. to the Chiefs of Med. Div., Dept. of Hospitals and Dispensaries, Buffalo, New York, 1916-24; Phys., Austen Riggs Foundation, Stockbridge, Massachusetts.

MILLIKEN, SAMUEL GIBBS

M.D., Univ. of Texas, 1922; Sr. Instr. in Pathol., Univ. of Texas, 1922; *Surg. H. O., P. B. B. H., March 1, 1924-Feb. 1, 1925*; Asst. Prof. of Path., Univ. of Texas; Director of Laboratories, Hermann Hosp., Houston, Texas; in practice, Houston, Texas.

MONTGOMERY, JAMES BLAINE

A.B., Dart., 1911; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., Nov. 1, 1915-March 1, 1917*; House Surg., Mass. Eye and Ear Infirmary, 1917; Grad., Army Med. Sch., 1917; 1st Lieut., M. C., U. S. Army; Major, Med. Corps, U. S. Army, Washington, D. C.

MOORE, RICHMOND LAWRENCE

A.B., Univ. of Va., 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924*; *Asst. Res. Surg., ibid., July 1, 1924-July 1, 1925*; Asst. Res. Phys., Hosp. of the Rockefeller Inst., New York, July 1, 1925-Aug., 1927; Fellow in Surg., Columbia Univ., Presbyterian Hosp.

MORRIS, LAIRD M.

M.D., Univ. of Cal., 1916; *Asst. Res. Phys., P. B. B. H., April 15, 1920-Oct. 1, 1920*; Asst. in Med., Univ. of Cal. Med. Sch., 1921-22; Instr. in Med., *ibid.*, 1923; Instr. in Med., Stanford Med. School; in practice, San Francisco, California.

MORRIS, JR., SAMUEL LESLIE

B.S., Davidson (N. C.), 1911; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., Nov. 1, 1916-Nov. 1, 1917*; 1st Lieut., M. C., U. S.

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Army; 1st Asst. House Surg., St. Louis Southwestern Hosp., 1919; Chief House Surg., *ibid.*; in practice, Atlanta, Georgia.

MORTON, JOHN JAMIESON

A.B., Amherst, 1907; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., March 1, 1913-July 1, 1914*; Fellow in Pathol., Rockefeller Inst., New York City, 1914-15; House Surgeon, M. G. H., 1915-16; Asst. Res. Phys., Rockefeller Inst. Hosp., New York, 1916-17; Major, M. C., U. S. Army, 1917-19; practice, Orthopedic Surg., Boston, Massachusetts; Grad. Asst., O. P. D., Children's Hosp., Boston, and Asst. Orthopedic Surg., *ibid.*, 1919-21; Asst. Prof. Surg., Yale, 1921-24; Prof. Surg., Rochester Univ. Sch. of Med. and Dentistry, Rochester, New York.

NELLANS, CHARLES T.

B.S., Univ. of Chicago, 1916; M.D., Rush Med. Coll., 1918; Mem. Res. Staff, Presbyterian Hosp., Chicago, 1918-19; *Med. H. O., P. B. B. H., Sept. 15, 1919-Nov. 1, 1920*; Asst. in Med., Yale, 1921; Instr. in Med., *ibid.*, and Res. Phys., New Haven Hosp., 1921-22; Instr. in Med., Emory Univ., and Asst. Visit. Phys., Wesley Mem. and Grady Hospitals, Atlanta, Georgia; Visit. Staff, Spelman Hosp., Spelman Coll.; Phys., U. S. Penitentiary, Atlanta, Georgia; in practice, Atlanta, Georgia.

NEWTON, HARLAN FAY

A.B., Yale, 1916; M.D., Harv., 1920; Pathol. H. O., B. C. H., 1920-21; *Surg. H. O., P. B. B. H., Nov. 1, 1921-March 1, 1923*; Asst. Res. Surg., *ibid.*, Oct. 1, 1923-July 1, 1924; Res. Surg., *ibid.*, July 1, 1924-Oct. 1, 1926; Austin Teach. Fellow in Surg., Harv.; Workman Fellow, Harv.

NICHOLS, ALVORD G.

A.B., Colgate, 1916; M.D., Harv., 1921; Interne, Worcester City Hosp., 1921-23; Act. Asst. Supt., *ibid.*; *Second Asst. Supt., P. B. B. H., Sept. 17, 1923-June 1, 1924*; Asst. Med. Director, John Hancock Life Insurance Co., Boston. *Died May 18, 1926.*

NICHOLS, 3D, ANDREW

A.B., Harv., 1912; M.D., *ibid.*, 1916; Surg. H. O., B. C. H., 1916-17; Capt., M. C., U. S. Army, 1917-19; *Second Asst. Supt., P. B. B. H., July 1, 1919-Feb. 1, 1921*; in practice, Danvers, Massachusetts.

NOVY, ROBERT LEV

A.B., Univ. of Mich., 1913; M.S., *ibid.*, 1914; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., April 15, 1919-April 1, 1920*; in practice, Detroit, Michigan.

O'CONOR, VINCENT JOHN

B.S., Univ. of Mich., 1915; M.D., Rush Med. Coll., 1917; *Surg. H. O., P. B. B. H., Jan. 1, 1917-Jan. 1, 1918*; House Surgeon, Pres-

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byterian Hosp., Chicago, Ill., 1918; 1st Lieut., M. C., U. S. Army, 1918-19; *Asst. Res. Surg., P. B. B. H., Feb. 15, 1919-July 15, 1920*; Urol. Surg., Washington Boulevard Hosp.; Asst. Prof., G. U. Surg., Univ. of Ill., Sch. of Med.; Urol. Surg., Lutheran-Deaconess Hosp., Chicago; Urol. Surg., Garfield Park Hosp.; in practice, Chicago, Illinois.

O'MEARA, JOHN WILLIAM

A.B., Holy Cross, 1912; M.D., Harv., 1918; *Surg. H. O., P. B. B. H., Jan. 7, 1918-Jan. 7, 1919*; Orthopedic H. O., Children's Hosp., Boston, 1919; Comm. for Relief in Near East, in charge of Surg. Wards, American Hosp., Samsoun, Turkey-in-Asia, 1919-20; Orthopedic Surg., St. Vincent's Hosp., Worcester; Jr. Surg., Worcester City Hosp.; in practice, Worcester, Massachusetts.

OPPENHEIMER, ELLA

A.B., Bryn Mawr, 1914; M.D., Johns Hopkins, 1918; *Med. H. O., P. B. B. H., Sept. 1, 1918-June 11, 1919*; Phys. in Charge, Baby Summer Hosp. Camp, Washington, D. C., 1920; Examining Phys. (Girls), Juvenile Court, Washington, D. C., 1920-21; Asst. Visit. Phys., Children's Hosp.; Phys., National Training School for Girls; Research Asst., Federal Children's Bureau; Assoc. Pediatricist, Providence Hosp., Washington, D. C.; Director, Div. of Child Hygiene, Children's Bureau, U. S. Dept. of Labor.

ORMOND, ALEXANDER T.

A.B., Princeton, 1912; M.D., Johns Hopkins, 1919; *Surg. H. O., P. B. B. H., Nov. 1, 1919-March 1, 1921*.

ORR, JR., LOUIS M.

B.S., Emory Coll., 1922; M.D., Atlanta Med. Coll., 1924; Jr. Interne, Grady Hosp., Atlanta, Ga., 1923-24; *Surg. H. O., P. B. B. H., July 1, 1924-Nov. 1, 1925*; Asst. Res. Surg., Lakeside Hosp., Cleveland; in practice, Orlando, Florida.

PARKER, JR., FREDERICK

A.B., Harv., 1913; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., March 1-April 1, 1917*.

PARKINS, LEROY EDWARD

A.B., Simpson Coll., 1912; M.D., Harv., 1918; Asst. Res., Boston Consumptives' Hosp.; Asst. Res., So. Dept., B. C. H.; *Surg. H. O., P. B. B. H., Dec. 1, 1918-March 1, 1920*; private practice, Douglas, Wyo.; *Second Asst. Supt., P. B. B. H., Jan.-May, 1921*; *First Asst. Supt., ibid., May 1, 1921-Feb. 1, 1923*; Asst. in Diseases of the Chest, Boston Univ. Med. School; Examiner in Tuberculosis, Boston Health Dept.; in practice, Boston.

PEABODY, FRANCIS WELD

A.B., Harv., 1903; M.D., *ibid.*, 1907; House Pupil, M. G. H., 1907-08; Asst. Res. Phys., J. H. H., 1908-09; Fellow in Pathol., Johns Hopkins, 1909-10; Stud. of Chem., Univ. of Berlin, Germany, 1910;

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Asst. Res. Phys., Hosp. of Rockefeller Inst., 1911-12; Asst., Rockefeller Inst., 1911-12; *Res. Phys., P. B. B. H., Nov. 1, 1912-Sept. 1, 1915 (granted leave of absence March 1, 1914-Jan. 1, 1915, to serve as a member of the China Medical Commission of the Rockefeller Foundation)*; *Asst. Visit. Phys., P. B. B. H., Sept. 1-Dec. 9, 1915*; Alumni Asst. in Med., Harv., 1913-15; Asst. Prof. of Med., *ibid.*, 1915-19; Consult. Phys., Collis P. Huntington Mem. Hosp., Boston; *Phys., P. B. B. H., Dec. 9, 1915-Sept. 1921 (leave of absence Aug. 1, 1917-Feb. 1, 1918, to serve as a member of the American Red Cross Comm. to Roumania)*; Major, M. C., U. S. Army, 1918-19; Assoc. Prof. of Med., Harv., 1920-21; Prof. of Med., *ibid.*; Visit. Phys., B. C. H.; Director, Thorndike Lab., *ibid.*; Member, China Medical Board, Rockefeller Foundation; Member, Board of Scientific Directors, Rockefeller Inst.; *Consult. Phys., P. B. B. H. Died Oct. 13, 1927.*

PECK, EUGENE CURTIS

A.B., Harv., 1916; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., July 1, 1919-July 1, 1920*; Instr. in Physiol. Chem., Tulane Univ., New Orleans, La.; Asst. in Pediatrics, Harv.; Prof. of Biochemistry and Physiol., St. John's Univ., Shanghai, China, 1922-25; H. O., Children's Med. Serv., M. G. H., 1925-26; in practice, New London, Connecticut.

PENFIELD, WILDER GRAVES

Litt.B., Princeton, 1913; B.A., Oxford, 1916; M.A. and B.Sc., *ibid.*, 1920; M.D., Johns Hopkins, 1918; *Surg. H. O., P. B. B. H., Aug. 15, 1918-Sept. 20, 1919*; Beit Mem. Research Fellow, England; Assoc. Attend. Surg., Presbyterian Hosp., New York; Asst. Prof. of Surg., Columbia Univ.; Asst. Surg., Neurol. Inst. of New York; Attend. Neurol., Vanderbilt Clin.; Clin. Prof. Neurol. Surg., McGill Univ.; Surg. in charge Neurol. Surg., Royal Victoria Hosp.; Consult. Neurol. Surg., Montreal Gen. Hosp.; in practice, Montreal.

PETTIT, ROSWELL TALMADGE

S.B., Univ. of Chicago, 1908; M.D., Rush Med. Coll., 1913; *Med. H. O., P. B. B. H., March 1, 1914-July 1, 1915*; Asst. Med. Director, Ottawa Tuberculosis Colony, Ottawa, Ill.; Phys., Illinois Valley Hosp., Ottawa, Ill.; Capt., M. C., U. S. Army; in practice, Ottawa, Illinois.

PRICE, JAMES VALENTINE

A.B., Univ. of N. C., 1915; M.D., Johns Hopkins, 1919; *Surg. H. O., P. B. B. H., Oct 15, 1919-March 1, 1921*; Guggenheim Bros., La Paz, Bolivia, S. A.

QUINLAND, WILLIAM SAMUEL

B.S., M.D., Rosenwald Fellow in Pathol., Harv., Sept., 1919-April, 1921; *Asst. in Pathol., P. B. B. H., April 14, 1921-July 28, 1922*; Pathol., G. W. Hubbard and M. E. Hale Hospitals and Prof. of Pathol., Meharry Med. Coll., Nashville, Tennessee.

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RAGSDALE, LUNEY VARNON

A.B., Univ. of Ala., 1917; M.D., Harv., 1924; *Second Asst. Supt., P. B. B. H., June 1-Dec. 15, 1924; Med. H. O., ibid., Dec. 15, 1924-March 1, 1926; in practice, Birmingham, Alabama.*

RAND, CARL WHEELER

A.B., Williams, 1908; A.M., *ibid.*, 1909; M.D., Johns Hopkins, 1912; Res. H. O., J. H. H., 1912-13; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1913-Nov. 1, 1914; House Surg., Mercy Hosp., Chicago, Ill., 1914-15; Lieut., M. C., U. S. Army; in practice, Los Angeles, California.*

RAPPORT, DAVID

A.B., Harv., 1912; M.D., *ibid.*, 1916; Moseley Travelling Fellow, Harv., 1916-17; *Med. H. O., P. B. B. H., March 1-June 17, 1917; Lieut., M. C., U. S. Army, 1917-19; Austin Teaching Fellow in Physiol., Harv., 1919-20; Instr. in Physiol., ibid.; Research Fellow in Physiology, Cornell Univ. Med. Coll., 1921-24; Sr. Instr. in Physiol., Western Reserve Univ. Med. Sch., 1924-26; Asst. Prof. Physiol., ibid.*

REIFENSTEIN, BENEDICT W.

B.S., Syracuse, 1920; M.D., *ibid.*, 1922; Pathol. H. O., Hosp. of the Good Shepherd, Syracuse, N. Y.; *Pathol. H. O., P. B. B. H., July 1, 1922-July 1, 1923; Med. H. O., New Haven Hosp., 1923-24; Asst. Phys., Syracuse Mem. Hosp.; in practice, Syracuse, New York.*

REYNOLDS, LAWRENCE

A.B., Univ. of Ala., 1912; M.D., Johns Hopkins, 1916; Capt., M. C., U. S. Army, 1917-19; *Roentgenologist, P. B. B. H., Oct. 15, 1919-June 1, 1922; Roentgenologist, Children's Hosp., Boston, 1922; Roentgenologist, Children's Free Hosp., Detroit, Mich.; Asst. Roentgenologist, Harper Hosp., Detroit; in practice, Detroit, Michigan.*

RHEA, LAWRENCE JOSEPH

B.S., Univ. of Texas, 1901; M.D., Johns Hopkins, 1905; H. O. in Pathol., B. C. H., 1906-07; Second Asst. in Pathol., *ibid.*, 1907; First Asst. in Pathol., *ibid.*, 1907-08; Asst. Visit. Pathol., *ibid.*, 1908-09; Asst. in Pathol., Harv., 1908-09; Instr. in Pathol., *ibid.*, 1909-10; Asst. Pathol., B. C. H., 1909-10; Director of Pathol. Lab. and Pathol., Montreal Gen. Hosp., 1910-12; Lect. in Pathol., McGill Univ., 1910-11; Asst. Prof. of Pathol., *ibid.*, 1911-12; *Res. Pathol., P. B. B. H., July 1, 1912-Oct. 1, 1913; Asst. Prof. of Pathol., Harv., 1912-13; Assoc. Prof. of Pathol., McGill Univ.; Major, Canadian Army Med. Corps; Pathol., Children's Hosp., Montreal; Pathol., Foundlings' Hosp., Montreal; Director, Pathol. Lab., Montreal Div. of Shriner's Hosp.; Director of Pathol. Lab., Montreal General Hosp.*

RHOADS, CORNELIUS PACKARD

A.B., Bowdoin, 1920; M.D., Harv., 1924; *Surg. H. O., P. B. B. H., July, 1924-May 18, 1925.*

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RICHARDSON, HENRY BARBER

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Med. H. O.*, *P. B. B. H.*, March 1, 1915-July 1, 1916; Asst. in Med., Johns Hopkins; Asst. Disp. Phys., J. H. H.; First Lieut., M. C., U. S. Army, 1918-19; Instr. in Med., Columbia Univ., New York, and Asst. Adjunct Visit. Phys., Bellevue Hosp., New York, 1921; Instr. in Med., Cornell, and Research Fellow, Russel-Sage Inst. of Pathol., Bellevue Hosp., New York; Asst. Visit. Phys., Bellevue Hosp.; Asst. Prof. of Med., Cornell Univ. Med. Coll., New York.

RINGER, MICHAEL

B.S., Coll. of City of New York, 1915; M.D., Cornell, 1919; Instr. in Exper. Med., Yale, 1919-21; Instr. in Physiol., Cornell, 1921-23; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1923-Jan. 1, 1925; in practice, New York.

RIOCH, DAVID M.

B.A., Butler Coll., Indianapolis, 1920; M.D., Johns Hopkins, 1924; *Surg. H. O.*, *P. B. B. H.*, Nov. 1, 1924-March 1, 1926; Asst. Res. Surg., *ibid.*, March-April, 1926; Asst. Med. Res., Strong Mem. Hosp., Rochester, N. Y., April 1, 1926-July 1, 1927; Instr. in Med., Univ. of Rochester Sch. of Med.

ROONEY, JAMES STEWART

Univ. of Calif., 1917-21; M.D., Harv., 1926; *Pathol. H. O.*, *P. B. B. H.*, Jan. 1-Oct. 1, 1926; Res. Pathol., Long Island Hosp., Oct. 1, 1926-June 1, 1927; Res. Phys., *ibid.*; Asst. in Pathol., Harv.

ROSS, J. PATERSON

M.B., B.S., London; F.R.C.S., England; St. Bartholomew's Hosp., England; *Jr. Assoc. in Surg.*, *P. B. B. H.*, April 9, 1923-Sept. 14, 1923.

SAEGER, ERNEST TIRRILL

B.S., Dart., 1914; M.D., Harv., 1917; *Surg. H. O.*, *P. B. B. H.*, July 1, 1917-Aug. 1, 1918; Res., First Surg. Division, Bellevue Hosp., New York; in practice, Boston.

SCHLESINGER, MONROE J.

B.S., Coll. City of New York, 1912; Ph.D., Harv., 1920; M.D., *ibid.*, 1926; Asst., N. Y. H. D. Research Lab., 1912-14; Asst. Bacteriol., West Penn. Hosp., Pittsburgh, 1914-17; Asst. in Preventive Med. and Hygiene, *ibid.*, 1917-20; Instr., *ibid.*, 1920-22; Asst. in Pathol., *ibid.*, 1922-23; Research Asst. in Pathol., *ibid.*, 1923-25; *H. O. Pathol.*, *P. B. B. H.*, July 1, 1925-July 1, 1926; Res. Pathol., Children's Hosp., Boston, 1926-27; Instr. in Pathol., Harv.; Pathol., Beth Israel Hosp., Boston.

SCHUMACHER, IRWIN C.

A.B., Univ. of Cal., 1915; M.D., Johns Hopkins, 1919; Asst. Res. Phys., *P. B. B. H.*, Oct. 1, 1920-Sept. 1, 1921; Asst. Prof. Med.,

PETER BENT BRIGHAM HOSPITAL

Univ. of Cal.; in charge, Clin. Pathol. Dept., and Allergy Clin., and Director of Clin. Labs., Univ. of Cal. Med. Sch.; in practice, San Francisco, California.

SCHWARTZ, CHARLES WADSWORTH

Ph.B., Yale, 1914; M.D., Harv., 1919; *H. O., X-ray Dept., P. B. B. H., Feb. 20, 1919-Feb. 20-1920*; Roentgenologist, New York Neurol. Inst.; in practice, New York.

SCOTT, W. J. MERLE

A.B., Oberlin, 1914; M.D., Johns Hopkins, 1918; A.M., Columbia Univ., 1922; First Lieut., M. C., U. S. Army, 1918-19; Asst. in Surg., Henry Ford Hosp., Detroit, Mich., 1918-21; Fellow in Exper. Pathol., Montefiore Hosp., 1921-22; Arthur Tracy Cabot Fellow, Harv., 1922-23; Asst. in Surg., *ibid.*, 1923; *Assoc. in Surg., P. B. B. H., Sept. 1, 1922-July 1, 1923*; *Asst. Res. Surg., ibid., July 1, 1923-July 1, 1924*; Res. Surg., Lakeside Hosp., and Instr. in Surg., Western Reserve Univ., Cleveland, Ohio, 1924-26; Asst. Prof. Surg., Univ. of Rochester, Rochester, New York, 1926-27; Assoc. Prof. Surg., *ibid.*

SHRADER, JOHN C.

B.S., Univ. of Iowa, 1920; M.D., *ibid.*, 1922; Med. Interne, Univ. Hosp., Iowa, 1922-23; Hosp. Chem., *ibid.*, 1923-24; *Asst. Res. Phys., P. B. B. H., July, 1924-Aug., 1926*; Chief Res., Emory Div., Grady Hospital, Atlanta, Georgia, 1926-27; in practice, Ft. Dodge, Iowa.

SIMON, HILDA AMANDA

M.D., Cooper, 1905; *Third Asst. Supt., P. B. B. H., Oct. 5, 1917-March 1, 1919*; Supt., Lynn Hosp., Lynn, Mass. (*resigned*).

SIMPSON, SUTHERLAND E. R.

A.B., Cornell, 1921; M.D., Harv., 1925; *Med. H. O., P. B. B. H., March 1, 1926-Aug. 1, 1926*.

SISSON, WARREN RICHARDS

A.B., Colgate, 1906; Stud. of Med., Freiburg, Germany (summer semester), 1910; Stud., Univ. of Munchen (winter semester), 1910-11; Stud., Univ. of Heidelberg (summer semester), 1911; M.D., Johns Hopkins, 1912; House Pupil, M. G. H., Children's Med. Ward, 1912-13; *Med. H. O., P. B. B. H., March 1, 1913-March 1, 1914*; *Res. Pathol., ibid., March 1, 1914-April, 1915*; Instr. in Pathol., Harv., 1914-15; H. O., B. C. H., So. Dept., summer of 1915; Sr. H. O., Boston Floating Hosp., 1915; Instr. in Pediatrics, Johns Hopkins; Asst. in Pediatrics, Harv.; Visit. Phys., Boston Lying-In Hosp.; Asst. Phys., Children's Hosp.; in practice, Boston.

SMILLIE, WILSON GEORGE

A.B., Colorado, 1908; M.D., Harv., 1912; D.P.H., *ibid.*, 1916; *Med. H. O., P. B. B. H., Nov. 1, 1912-March 1, 1914*; *Asst. Res. Phys., ibid., March 1-Sept. 1, 1914*; Asst. Instr., Dept. of Preventive Med., Harv., 1914-16; Research Fellow, Rockefeller Inst., New York City,

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1916-17; International Health Board of Rockefeller Foundation, 1917; loaned by the board as Asst. Prof. Hygiene de Faculdade de Medicina, Sao Paulo, Brazil, 1918-20; Director, Institute Hygiene; Prof. of Hygiene, Faculdade de Medicina e cirurgia, Sao Paulo, Brazil, 1920-22; Director of Training Base, International Health Board, Andalusia, Ala., 1922-25; Asst. Director for U. S., International Health Board, New York.

SMITH, BARNEY BARR

M.D., Jefferson, 1917; H. O., Jewish Hosp., Philadelphia, Pa., 1917-18; First Lieut., M. C., U. S. Army, 1918-19; Asst., X-ray Dept., Lincoln and Beth Israel Hosp., New York City, 1920; *H. O., X-ray Dept., P. B. B. H., April 15, 1920-April 21, 1921*; Assoc. Roent., City Hosp., Buffalo, 1924-26; Instr. in Radiology, Univ. Buffalo Med. Sch.; Roent., Marine Hosp., Buffalo; in practice, Buffalo, New York.

SMITH, JUDSON ARTHUR

A.B., Harv., 1915; M.D., *ibid.*, 1918; *Med. H. O., P. B. B. H., Feb. 14, 1918-Jan. 30, 1919*; Surg. Serv., New Haven Hosp.; *Asst. Res. Surg., P. B. B. H., June 15, 1921-July 1, 1922*; H. O., Boston Lying-In Hosp., 1922-23; Res. Obstetrician, *ibid.*, 1923-24; in practice, Boston.

SMITH-PETERSEN, MARIUS NYGAARD

B.S., Univ. of Wis., 1910; Univ. of Wis. Med. Sch., 1910-12; M.D., Harv., 1914; *Surg. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915*; Res. Surg., Harv. Unit, Am. Ambulance Hosp., Paris, France, April-July, 1918; House Pupil, M. G. H. (Orthopedic Serv.), 1916; Visit. Orthopedic Surg., M. G. H.; in practice, Boston.

SOOY, DANIEL WARREN

M.D., Univ. of Cal., 1917; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1921-July 1, 1922*; Instr. in Surg., Univ. of Cal. Med. Sch.; in practice, San Francisco.

SPILLMAN, RAMSAY

A.B., Cornell, 1914; M.D., *ibid.*, 1917; *Surg. H. O., P. B. B. H., July 1, 1917-March 1, 1918*; Lieut. (j. g.), U. S. N. R. F.; H. O., Columbia Hosp., Washington, D. C., 1918-19; Asst. Visit. Phys., Florence Crittenton Home, 1921-22; Instr. in Roent., Cornell Med. Sch.; Visit. Roent., Beekman St. Hosp.; in practice (Roentgenology), New York City.

SPURLING, ROY G.

A.B., Univ. of Mo., 1920; A.M., *ibid.*, 1923; M.D., Harv., 1923; *Surg. H. O., P. B. B. H., Nov. 1, 1923-March 1, 1925*; *Asst. Res. Surg., ibid., March 1-Sept. 1, 1925*; Res. Surg., Louisville City Hosp., Louisville, Ky.; Instr. in Surg., Univ. of Louisville Sch. of Med.

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STATER, WAYNE J.

A.B., Univ. of Oregon, 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H., March 1, 1922-July 1, 1923*; in practice, Portland, Oregon.

STECHER, ROBERT M.

B.S., Dart., 1919; M.D., Harv., 1923; *Med. H. O., P. B. B. H., Nov. 1, 1924-Nov. 1, 1925*; Research Asst. in Med., Cleveland City Hosp.

STELLAR, ROBERT W.

B.S., Occidental Coll., Cal., 1919; Univ. of Cal., 2 years; M.D., Harv., 1923; *Surg. H. O., P. B. B. H., Nov. 1, 1923-March 1, 1925*; in practice, Wilmington, California.

STEVENS, FRANKLIN AUGUSTUS

B.S., Univ. of Iowa, 1913; M.D., *ibid.*, 1915; Res. Phys., Univ. Hosp., Iowa, 1915; Instr. in Med., Univ. of Iowa, 1916-17; *Asst. Res. Phys., P. B. B. H., July 21, 1917-Jan. 1, 1918*; M. C., U. S. Army, 1918-19; Coolidge Fellow in Med., Columbia Univ., New York, 1919-20; Instr. in Med., *ibid.*

STEWART, STEELE FULLER

B.S., Westminster, Pa., 1912; M.D., Univ. of Pa., 1918; *Surg. H. O., P. B. B. H., June 1, 1918-July 1, 1919*; Orthopedic Service, Children's Hosp., Boston, 1920; Orthopedic Service, M. G. H., 1921-22; Assoc. Orthopedic Surg., Children's Hosp., Los Angeles, 1922; Asst. Orthopedic Surg., *ibid.*; Jr. Orthopedic Surg., Los Angeles Gen. Hosp.; Orthopedic Surg., San Bernardino County Welfare Commission; Orthopedic Consultant, Nat. Home for Disabled Volunteer Soldiers, Sawtelle, Calif.; in practice, Los Angeles, Calif.

STIMSON, HORACE POTTLE

A.B., Amherst, 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., March 1, 1923-July 1, 1924*; *Asst. Res. Surg., ibid., Sept. 8-Dec. 12, 1924*; Phys. of Fogg Museum Archaeological Expedition to Mongolia, 1925; in practice, Miami, Florida.

STODDARD, JAMES LEAVITT

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Pathol. H. O., P. B. B. H., July 1, 1914-July 1, 1915*; *Act. Res. Pathol., ibid., July 1-Sept. 1, 1915*; Research Fellow in Pathol., Harv.; Major, M. C., U. S. Army, 1917-19; Lect. in Biochemistry, Smith Coll., 1920-21; Asst. Prof. Biochemistry, Smith Coll., 1921-22; Chemist, M. G. H.; Asst. in Med., Harv.

STONE, ERIC PERCY

B.S., Harv., 1914, as of 1915; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., May 15, 1918-July 1, 1919*; *Asst. Res. Surg., ibid., Oct. 1, 1919-June 15, 1920*; Visit. Urologist, Providence City Hosp.; Asst. Surg., Gynecological Serv., R. I. Hosp.; Visit. Urol., Pawtucket Mem. Hosp., Pawtucket, R. I.; Consult. Urol., Prov. Lying-In Hosp.; in practice, Providence, Rhode Island.

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STONE, GEORGE HENRY

A.B., Bowdoin, 1905; M.D., *ibid.*, 1908; H. O., Maine Gen. Hosp., 1908-09; in practice, Clinton, Mass., 1909-11; H. O., B. C. H., 1912-13; Exec. Asst., *ibid.*, 1913-15; *Third Asst. Supt., P. B. B. H., Feb. 1, 1915-May 1, 1917; Second Asst. Supt., ibid., May 1, 1917-July 1, 1919;* Capt., M. C., U. S. Army, 1918-19; Major, Med. Sec., Officers' Reserve Corps, U. S. Army; *First Asst. Supt., P. B. B. H., July 1, 1919-May 1, 1921;* Supt., Eastern Maine Gen. Hosp., Bangor, Maine.

TAFT, ANNIE E.

M.D., Tufts, 1907; *Res. Pathol., P. B. B. H., Nov. 5, 1917-Jan. 31, 1918.*

TAFT, ROGER BROWNE

D.M.D., Harv., 1908; Asst. in Oral Surg., *ibid.*, 1910; Instr. in Oral Surg., *ibid.*, Feb. 1, 1919; *Dental Surg., P. B. B. H., Jan. 13, 1916-Feb. 13, 1919;* Instr. in Operative Dent., Harv.; in practice (Dentistry), Boston.

TEEL, CHARLES E.

M.D., Washington Univ., 1923; Surg. Interne, New Haven Hosp., 1923-24; H. O., M. G. H., 1924-25; *Asst. Res. Surg., P. B. B. H., Nov. 1, 1925-June 22, 1926;* Asst. in Genito-Urinary Surg., Harv., 1925-26; in practice, Bellingham, Washington.

TEFFT, JR., RICHARD C.

A.B., Yale, 1916; M.D., Harv., 1920; *Med. H. O., P. B. B. H., March 1, 1921-July 1, 1922.*

TEMPLETON, EARL R.

B.S., Colgate Univ., 1914; M.D., Syracuse, 1920; *Pathol. H. O., P. B. B. H., July 6, 1920-July 1, 1921;* *Med. H. O., New Haven Hosp., 1921-22;* Res. in Med., Buffalo City Hosp., 1922; Clin. Asst. in Med., *ibid.*; in practice, Buffalo, New York.

THAXTER, LANGDON THOM

A.B., Williams, 1911; M.D., Harv., 1915; Med. House Pupil, M. G. H., 1915-16; *Surg. H. O., P. B. B. H., Nov. 14, 1916-July, 1917;* Res. Roent., M. G. H.

THOMPSON, CHARLES BAKER

A.B., Haverford, 1909; M.D., Johns Hopkins, 1913; *Med. H. O., P. B. B. H., Nov. 1, 1913-Nov. 1, 1914;* Second Asst. Res., Phipps Psychiatric Clin., J. H. H., 1914-15; First Asst. Res., *ibid.*, 1915-16; Examining Psychiatrist and Executive Secretary, Mental Hygiene Soc. of Md., 1916-27; Editor, Mental Health, 1923-26; School Psychiatrist, Health Dept., Baltimore Public Schools, 1922-27; Attend. Phys., Vanderbilt Clin., Psychiatric Dept.; Instr. in Psychiatry, College of Phys. and Surgs., New York.

TOWLERTON, FLETCHER JOHNSON

A.B., Harv., 1917; M.D., *ibid.*, 1921; H. O., Collis P. Huntington Mem. Hosp., 1919-20; *Surg. H. O., P. B. B. H., July 1, 1921-Nov.*

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1, 1922; Phys., Wayne County Home, New York, 1923; Visit. Surg., Lyons Hosp., Lyons, New York; in practice, Lyons, New York.

TOWNE, EDWARD BANCROFT

A.B., Harv., 1906 (1907); M.D., *ibid.*, 1913; *Surg. H. O., P. B. B. H., July 1, 1913-Nov. 1, 1914; Asst. Res. Surg., ibid., Nov. 1, 1914-Nov. 1, 1915; Surg., Second Harv. Unit, B. E. F., France, 1915-16; Vol. Asst. in Exp. Bacteriol., Mayo Foundation, Rochester, Minn., 1916; Fellow pro tempore, Mayo Foundation, 1916-17; Asst. Res. Surg., P. B. B. H., Sept. 1, 1916-May 7, 1917; Major, M. C., U. S. Army, May, 1917-19; Assoc. Clin. Prof. of Surg., Leland Stanford Junior Univ., San Francisco; in practice, San Francisco, California.*

TRANter, CHARLES LEE

B.S., Univ. of Cal., 1911; M.D., *ibid.*, 1913; Med. and Surg. H. O., Univ. of Cal. Hosp., 1913-14; Asst., Nerve O. P. D., *ibid.*, 1914-15; Asst. in Neurol., Univ. of Cal., 1915; *Asst. Res. Surg., P. B. B. H., Jan. 8, 1916-Jan. 1, 1917; Asst. in Neurol., Univ. of Cal., 1917; Capt., M. C., U. S. Army; in practice, San Francisco, California.*

TURNBULL, GEORGE CLARENCE

M.D., Northwestern Univ., 1922; H. O., Gen. Serv., Surg. and Obstetrics, Evanston Hosp., Evanston, Ill., 1922-23; Asst. in Pathol., Northwestern Univ., 1920-22; *Med. H. O., P. B. B. H., March 1, 1923-July 1, 1924; Phys. (special), Yale, Dept. Univ. Health, New Haven, Conn., 1924-26; Clin. Asst., Dept. Int. Med., Yale Univ. Sch. of Med., 1924-26; Post-Grad. work in Medicine and Pathol., Vienna, Austria, 1926-27; Instr. in Med., Northwestern Univ.; in practice, Evanston, Ill.*

TURNER, RALPH WALDO

M.D., Albany Med. School, 1917; *Surg. H. O., P. B. B. H., Dec. 23, 1917-May 2, 1918; Lieut., M. C., U. S. Army. (Deceased.)*

VAIL, HARRIS HOLMES

A.B., Yale, 1912; M.D., Harv., 1917; *Surg. H. O., P. B. B. H., March 1, 1916-May 3, 1917; Lieut., M. C., U. S. Navy, 1917-19; H. O., Aural, Mass. Eye and Ear Infirm., 1920-21; Clinician, Ear, Nose and Throat Clin., Cincinnati Gen. Hosp.; Attend. Laryngologist, Cincinnati Gen. Hosp.; Attend. Laryngologist, Cincinnati Tuberculosis Sanatorium; Asst. Attend. Laryngologist, Episcopal Hosp. for Children, Cincinnati; Asst. in Otolaryngology, Med. Coll. of Univ. of Cincinnati; in practice, Cincinnati, Ohio.*

VAN GORDER, GEORGE WILSON

A.B., Williams, 1911; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., March 1, 1915-July 1, 1916; House Surg., St. Anthony Hosp., Labrador, 1916; Med. House Pupil, M. G. H., 1916-17; House Surg., Free Hosp. for Women, Brookline; Capt., M. C., U. S. Army; Assoc. Prof. Surg. and Assoc. in Surg., Peking Union Med. Coll., Peking, China.*

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VAN WAGENEN, WILLIAM P.

M.D., Harv., 1922; *Surg. H. O., P. B. B. H., Nov. 1, 1922-March 1, 1924; Asst. Res. Surg., ibid., Oct. 1, 1924-Nov. 1, 1925.*

VASTINE, JACOB H.

M.D., Univ. of Pa., 1923; Interne, Easton Hosp., Easton, Pa., 1923-24; Gen. Practice, 1 year; *H. O., X-ray Dept., P. B. B. H., Aug. 1, 1925-Feb. 1, 1926; Asst. Res. in Roent., ibid., Feb. 1-June 15, 1926;* in practice, Philadelphia, Pennsylvania.

VAUGHAN, WARREN TAYLOR

A.B., Univ. of Mich., 1913; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., July 1, 1916-Nov. 7, 1917;* M. C., U. S. Army. Nov. 7, 1917-July 27, 1919; Asst. in Preventive Med. and Hygiene, Harv., 1919-20; Attend. Phys., St. Elizabeth's Hosp., Richmond, Va., 1920-22; Lt. Col., M. O. R. C., C. O. Genl. Hosp., 41; Staff, Retreat Hosp.; Pres., 1924-25; Consult. Phys., Evangeline Booth Hosp.; Consult. Phys., Children's Home Society of Virginia; in practice, Richmond, Virginia.

VICKERS, DENVER M.

A.B., Colorado Coll., 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H., July, 1921-Nov. 1, 1922;* Asst. Res., McClellan Hosp., New York.

VIETS, HENRY ROUSE

B.S., Dart., 1912; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., March 1-Aug. 16, 1917;* Capt., M. C., U. S. Army, 1917-19; Major, M. R. C., U. S. Army; Instr. in Neurol., M. G. H.; Asst. Visit. Neurol., Long Island Hosp., Boston; in practice, Boston.

WAKEMAN, EDWARD T.

B.A., Yale, 1919; M.D., *ibid.*, 1922; *Med. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923;* in practice, New Haven, Connecticut.

WALKER, CLIFFORD BLACK

S.B., Univ. of Cal., 1906; Stud., Univ. of Cal. Med. Sch., 1907-10; M.D., Johns Hopkins, 1911; M.D., *ibid.*, 1912; Asst. to Dr. Cushing, 1911-12; Sr. Ophthal. House Surg., Mass. Eye and Ear Infirm., Boston, 1913; Sr. Aural House Surg., *ibid.*, 1914; *Assoc. in Surg., P. B. B. H., March 1, 1915-April 25, 1918;* Asst. in Ophthal., Harv., 1916-18; in practice, Los Angeles, California.

WALKER, WILLIAM G.

M.D., Univ. of Iowa; 3 months Pathol. Dept., *ibid.*; 1 year Interne, Univ. of Iowa Hosp.; 1 year Clin. Asst., *ibid.*; 2½ months Clin. Microscopy, *ibid.*; *Jr. Assoc. in Med., P. B. B. H., Sept. 25, 1922-July 1, 1924;* Chief, Med. Serv., Brockton Hosp.; in practice, Brockton, Massachusetts.

WARREN, JR., WILLIAM CHESTER

B.S., Emory Univ.; M.D., *ibid.*; *Surg. H. O., P. B. B. H., March 28, 1922-July 1, 1923;* Asst. and House Surg., Manhattan Ear, Nose

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and Throat Hosp., New York, 1923-24; Grad. Stud., Vienna, Austria; Assoc. Instr., O. R. L. Serv., Emory Univ.; in practice, Atlanta, Georgia.

WATKINS, S. SHELTON

A.B., Center Coll. of Ky., 1908; A.M., *ibid.*, 1909; M.D., Johns Hopkins, 1914; Med. and Surg. H. O., Church Home and Infirm., Baltimore, 1914; *Third Asst. Supt., P. B. B. H., May 1, 1914-Jan. 15, 1915*; Asst. in Clin. Laryngology, Johns Hopkins; Asst. Disp. Laryngologist, J. H. H.; Asst. Res. Surg., *ibid.*; Mem. of Dr. L. F. Barker's Staff at 1035 No. Calvert St., Baltimore, Md.; Lieut., M. C., U. S. Navy, 1917-19; in practice, Louisville, Kentucky.

WEARN, JOSEPH TRELOAR

B.S., Davidson, 1913; M.D., Harv., 1917; *Med. H. O., P. B. B. H., June 15, 1917-June 15, 1918*; 1st Lieut., M. C., U. S. Army, 1917-19; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1919-Aug. 15, 1921*; Instr. in Pharm., Univ. of Penn., 1921-23; Instr. in Med., Harv., 1923-24; Asst. Prof. of Med., *ibid.*; Asst. Phys., Thorndike Lab., B. C. H.; Jr. Visit. Phys., *ibid.*; Assoc. Prof. Med., Harv.; Assoc. Director, Thorndike Lab., B. C. H.; Visit. Phys., B. C. H.

WEGEFARTH, PAUL

A.B., Johns Hopkins, 1908; Stud. of Med., Strassburg and Berlin, Germany, 1909-11; M.D., Johns Hopkins, 1912; *Surg. H. O., P. B. B. H., Nov. 1, 1912-March 1, 1914*; Res. Phys., Church Home Infirmary, Baltimore, 1914-15; Phys., San Diego, Cal., 1914-17; Commissioned 1st Lieut., M. C., Sept., 1917; on duty at Camp Meade, Sept.-Dec., 1917; on duty at Army Neuro-Surg. Lab., Baltimore, Dec., 1917-April, 1919; with temporary duty at Camp Jackson and Camp Lee, 1918-19; commissioned Capt. M. C., May, 1918; discharged May, 1919; from Letterman Gen. Hosp., San Francisco, Cal.; in practice at San Diego, May, 1919, until December, 1921; developed tuberculosis; in sanatorium at Phoenix, Arizona, and Colorado Springs, Colorado. *Died March 29, 1923.*

WEISMAN, PAUL GERHARDT

B.S., Univ. of Mich., 1911; M.D., *ibid.*, 1913; H. O., Providence City Hosp. (Contagious Wards), 1914; H. O., R. I. Hosp., 1914-16; *Asst. Res. Phys., P. B. B. H., April 1-Aug. 1, 1916*; Asst. Res., Union Prot. Infirm., Baltimore, 1917; Res., *ibid.*, 1917-18; Lieut., M. C., U. S. Army, 1918; in practice, Colfax, Washington.

WELBOURN, MARSHALL AGNEW

B.S., Univ. of Mich., 1913; M.D., *ibid.*, 1915; *Assoc. in Med., P. B. B. H., July 1, 1915-March 1, 1916*; *Med. H. O., ibid., March 1, 1916-July 1, 1917*; Capt., M. C., U. S. Army, 1917-19; Instr. in Int. Med., Univ. of Mich., 1919-20; in charge of laboratories, Westlake Hosp., Los Angeles, Cal.; Med. Staff, Selwyn Emmet Graves Mem. Disp., Univ. of Calif.; Attend. Staff, California Lutheran Hosp.; in practice, Los Angeles, California.

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WELLS, GUY

Ph.B., Brown Univ., 1916; M.D., Cornell, 1920; Interne, R. I. Hosp., 1920-22; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1922-March 1, 1924*; in practice, Providence, Rhode Island.

WELLS, WARD STANLEY

S.B., Grinnell, 1909; M.D., Harv., 1916; *Assoc. in Med., P. B. B. H., July 1, 1916-April 8, 1917*; *Med. H. O., ibid., April 8-July 18, 1917*; Major, M. C., U. S. Army, Letterman Gen. Hosp., Presidio of San Francisco, Calif; Instr. in Clin. Electro-Cardiography, Army Med. Center, Washington, D. C.

WENTWORTH, JOHN ALEXANDER

A.B., Bowdoin, 1909; M.D., Harv., 1913; H. O., Hartford Hosp., Hartford, Conn., 1913-15; *Sr. Med. H. O., P. B. B. H., July 1-Nov. 1, 1915*; Alumni Asst., Clin. Pathol., Harv.; Asst., Harv., Infantile Paralysis Comm., Fall, 1916; *Asst. Res. Phys., P. B. B. H., Nov. 1, 1915-Aug. 1, 1917*; Assoc. Phys., Clifton Springs Sanitarium, New York, 1917-18; 1st Lieut., M. C., U. S. Army, 1918-19; Phys., Clifton Springs Sanitarium, New York, 1919-21; Asst. Phys., Hartford Hosp.; in practice, Hartford, Connecticut.

WEST, HOWARD FRANK

A.B., Stanford, 1912; M.D., *ibid.*, 1915; Interne, Lane Hosp., San Francisco, 1915-17; *Asst. Res. Phys., P. B. B. H., Sept. 15-Oct. 15, 1917*; *Act. Res. Phys., ibid., Oct. 15, 1917-Jan. 1, 1918*; *Res. Phys., ibid., Jan. 1, 1918-April 15, 1920*; Alumni Asst. in Med., Harv., 1918-20; Assoc. Phys., Diabetic Serv., Children's Hosp., Los Angeles; Assoc. Med. Director, Los Angeles Metabolic Clin.; Attend. Staff, Hosp. of Good Samaritan; in practice, Los Angeles, California.

WHEELER, DANIEL W.

S.B., Knox Coll., 1915; M.D., Rush Med. Coll., 1920; *Asst. Res. Surg., P. B. B. H., June 1, 1921-March 1, 1922*; Fellow in Pathol., Rush Med. Coll., 1920-21; Fellow, Trudeau Foundation, 1922; Asst. Res. Phys., Trudeau Sanatorium, 1923; Asst. Med. Director, Nopeming Sanatorium, Nopeming, Minn., 1924; in practice, Duluth, Minnesota.

WHITING, WALTER BELKNAP

Two years pre-med. work, Wash. and Lee Univ., and Cornell Summer Sch.; M.D., Harv., 1923; *Med. H. O., P. B. B. H., July 1, 1923-Nov. 1, 1924*; *Asst. Res. Phys., ibid., Nov. 1, 1924-July 1, 1925*; Phys., Wichita Clin. Hosp.; in practice, Wichita Falls, Texas.

WHITNEY, RAYMOND CYRUS

B.S., Middlebury, 1914; M.D., Harv., 1918; *Surg. H. O., P. B. B. H., Jan. 10-Oct. 28, 1918*; American Relief Comm., Near East, Caesarea, Turkey-in-Asia, American Hosp.; H. O., Mass. Eye and Ear

PETER BENT BRIGHAM HOSPITAL

Infirm., 1920-22; Ophthalmologist, St. Luke's Hosp., New Bedford;
in practice (Ophthalmology), New Bedford, Massachusetts.

WILENS, GUSTAV

Ph.B., Yale, 1920; M.D., *ibid.*, 1923; *Pathol. H. O., P. B. B. H., July 1, 1923-July 1, 1924*; Res. Pathol., Children's Hosp., Boston; Instr. in Pathol., Harv., 1924-25; H. O. in Pediatrics, Children's Hosp., Boston, 1926-27; Director of Laboratories, Truesdale Hosp., Fall River, Mass.; Asst. Pediatrician, *ibid.*, Jan.-Sept., 1927; in practice, Utica, New York.

WILMAERS, ALBERT

M.D., Univ. of Brussels, 1921; Interne, Hospitals of Brussels; 3 months as Asst. to Prof. Vaquez, Paris; worked under Dr. DeMoor and Dr. DeMeyer; Physiol. Inst., Univ. of Brussels; Fellow, C.R.B., Educational Foundation; *Act. Asst. Res. Phys., P. B. B. H., Sept. 15-Nov. 15, 1923*; Asst. in General Path., Univ. of Brussels; in practice, Brussels, Belgium.

WILSON, CHARLES P.

A.B., Reed Coll., Portland, Oregon, 1920; M.D., Johns Hopkins, 1924; *Med. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Asst. Res. Phys., Vanderbilt Univ., Nashville, Tenn., 1926-27; Res. Phys., *ibid.*

WILSON, DAVID COLE

B.A., Univ. of Va., 1912; M.D., *ibid.*, 1919; Interne, Univ. of Va. Hosp., 1919; *Med. H. O., P. B. B. H., Dec. 15, 1919-March 1, 1921*; Phys., Clifton Springs San., Clifton Springs, New York.

WILSON, JAMES ROBERT

M.D., Syracuse Univ., 1921; Instr., *ibid.*; Asst. in Pathol., Harv.; Res. Pathol., Children's Hosp., Boston; Instr., Dept. Pathol., Harv.; *Res. Pathol., P. B. B. H., Sept. 15, 1923-July 1, 1924*; Instr. in Clin. Pediatrics, Cornell Med. School, New York; Asst. Attend. Pediatricist, Out-Patient Dept., New York Nursery and Child's Hosp., New York; Pathologist, *ibid.*; Asst. Attend. Pediatricist, Pediatric Serv. of Dr. Schloss.

WILSON, RICHARD B.

B.S., Emory Univ., 1920; M.D., *ibid.*, 1922; H. O. Boston Psycho. Hosp., 1922-23; *Med. H. O., P. B. B. H., March 1, 1924-July 1, 1925*; Post-Grad. work at Inst. for Brain Anatomy, Amsterdam, Holland, 1925-26; Post-Grad. work in Neuro-Pathol., Hamburg, Freidrichsburg, Germany, 1926-27.

WISLOCKI, GEORGE BERNAYS

A.B., Washington Univ.; M.D., Johns Hopkins, 1916; Asst. in Anat., *ibid.*, 1916-17; Arthur Tracy Cabot Fellow, Harvard, 1917-20; *Assoc. in Surg., P. B. B. H., March 25-Oct. 1, 1920*; Assoc. Prof. of Anat., Johns Hopkins, Baltimore, Maryland.

REGISTER OF FORMER MEMBERS OF THE STAFF

WOOD, R. HUGH

M.D., Med. Coll. of Va., 1921; Interne, St. Elizabeth's Hosp., Richmond, Va., 1922; Res. Pathol., Mem. Hosp., Richmond, Va., 1922-23; *Med. H. O., P. B. B. H., March 1, 1923-July 1, 1924*; Chief Res., Grady Hosp., Atlanta, Ga., 1924-26; in practice, Atlanta, Georgia.

WOOD, RUSSELL

A.B., Harv., 1916; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., March 1, 1921-July 1, 1922*; Grad. Asst. in Med., M. G. H., 1922; H.O., So. Dept., B. C. H., 1922-23; Asst. Visit. Phys., St. Luke's Hosp., New Bedford, Mass.; in practice, New Bedford, Massachusetts.

WOODS, ALAN CHURCHILL

A.B., Johns Hopkins, 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., July 1, 1914-Nov. 1, 1915*; Fellow and Assoc. in Exper. Med. and Asst. in Ophthal., Univ. of Pa.; Major, M. C., U. S. Army, 1917-19; Assoc. Prof. Clin. Ophthal., Johns Hopkins; Visit. Ophthal., *ibid.*; in practice (Ophthalmology), Baltimore, Md.

WOODWARD, HARRY WHITING

A.B., Bowdoin, 1910; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., March 1, 1915-July 1, 1916*; H. O., Boston Lying-In Hosp., 1916; Capt., Royal Army Med. Corps; Visit. Staff, Surg. Services, Glockner Hosp. and Sanatorium, Bethel Hosp., Colorado Springs, Colorado; in practice, Colorado Springs.

WRIGHT, MARY

A.B., Vassar, 1911; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H., July 1, 1917-Sept. 17, 1918*; H. O. (Pediatrics), M. G. H., 1918-19; H. O., St. Louis Children's Hosp., 1919; Asst. Res., St. Louis Children's Hosp., 1919-20; Phys. to Children's Med. O. P. D., M. G. H.; Attend. Phys., N. E. Hosp. for Women and Children; in practice, Boston. *Died, Jan. 13, 1927.*

WULFFAERT, FRANZ RENE

B.A., Brussels, 1906; B.S., *ibid.*, 1907; M.D., *ibid.*, 1912; Asst. Phys., St. John's Hosp., Brussels, 1913; Res. Anesthetist, St. Mary's Hosp., London, Eng., 1915; *Pathol. H. O., P. B. B. H., Jan. 15-July 1, 1918*; *Res. Pathol., ibid., July 1, 1918-March 31, 1919*; Asst. in Pathol., Harv., 1918-19; Asst. Surg. (Gynecology), St. John's Hosp., Brussels, 1919-23; Asst. Surg., Univ. Brussels, 1923-25; in practice, Brussels, Belgium.

WYNN, JAMES

B.S., Indiana Univ., 1917; M.D., *ibid.*, 1919; M.D., *cum laude, ibid.*, 1920; *Asst. Res. Phys., P. B. B. H., July 1, 1920-Oct. 4, 1921*; Alternate on Visit. Staff, Indianapolis City Hosp., Indianapolis; Research Fellow, Indiana Univ. Med. Sch.

PETER BENT BRIGHAM HOSPITAL

YOAKAM, WAYNE ADDISON

B.S., Denison Univ., 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H., July 1, 1920-Nov. 1, 1921*; Obst. H. O. Boston Lying-In Hosp., 1921-22; Henry Ford Hosp., 1922-25; Assoc. Attend. Obstetrician, Providence Hosp. and Herman Keifer Hosp.; Obstetrical Consultant, St. Joseph Mercy Hosp., Detroit, Mich.; in practice, Detroit, Michigan.

Officers of the Institution, 1928

President

CHARLES P. CURTIS

Treasurer

EDMUND D. CODMAN

Secretary

LAURENCE H. H. JOHNSON

MEMBERS OF THE CORPORATION

Appointed

Jan. 5, 1921	*WILLIAM AMORY	341 Beacon St.,	Boston
Mar. 26, 1925	HARRY L. BAILEY	93 Franklin St.,	Boston
May 8, 1902	EDMUND D. CODMAN	27 Kilby St.,	Boston
Apr. 15, 1915	CHARLES P. CURTIS	71 Ames Building,	Boston
Mar. 26, 1925	PAUL E. FITZPATRICK	104 Kingston St.,	Boston
Dec. 11, 1919	LOUIS A. FROTHINGHAM	911 Barristers' Hall,	Boston
June 16, 1909	†IRVIN McD. GARFIELD	30 State St.,	Boston
Feb. 7, 1918	FRANCIS L. HIGGINSON, JR.	44 State St.,	Boston
May 8, 1902	HENRY S. HOWE	53 State St.,	Boston
May 8, 1902	LAURENCE H. H. JOHNSON	27 Kilby St.,	Boston
Mar. 27, 1924	RICHARD S. RUSSELL	50 State St.,	Boston
May 8, 1902	WILLIAM R. TRASK	10 State St.,	Boston

STANDING COMMITTEES OF THE CORPORATION

Building Committee

WILLIAM AMORY, *Chairman*

CHARLES P. CURTIS

LAURENCE H. H. JOHNSON

HARRY L. BAILEY

JOSEPH B. HOWLAND, M.D., *Secretary*

Auditing Committee

WILLIAM R. TRASK

* Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 1, 1930.

† Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 1, 1933.

PETER BENT BRIGHAM HOSPITAL

Committee on Finances

HENRY S. HOWE
EDMUND D. CODMAN
LAURENCE H. H. JOHNSON
RICHARD S. RUSSELL

Committee on Nominations

CHARLES P. CURTIS
EDMUND D. CODMAN

Committee on Rules

CHARLES P. CURTIS
EDMUND D. CODMAN
IRVIN MCD. GARFIELD

VISITING COMMITTEE FOR 1927

CHARLES P. CURTIS	January
PAUL E. FITZPATRICK	February
HENRY S. HOWE	March
WILLIAM R. TRASK	April
LAURENCE H. H. JOHNSON	May
LOUIS A. FROTHINGHAM	June
EDMUND D. CODMAN	July
FRANCIS L. HIGGINSON, JR.	August
IRVIN MCD. GARFIELD	September
HARRY L. BAILEY	October
WILLIAM AMORY	November
RICHARD S. RUSSELL	December

VISITING COMMITTEE FOR 1928

CHARLES P. CURTIS	January
PAUL E. FITZPATRICK	February
HENRY S. HOWE	March
WILLIAM R. TRASK	April
LAURENCE H. H. JOHNSON	May
LOUIS A. FROTHINGHAM	June
EDMUND D. CODMAN	July
FRANCIS L. HIGGINSON, JR.	August
IRVIN MCD. GARFIELD	September
HARRY L. BAILEY	October
WILLIAM AMORY	November
RICHARD S. RUSSELL	December

MEDICAL ADVISER TO CORPORATION

Appointed

July 9, 1914 FREDERICK C. SHATTUCK, M.D.

OFFICERS OF THE INSTITUTION

EXECUTIVE COMMITTEE OF THE STAFF

HENRY A. CHRISTIAN, M.D.
HARVEY CUSHING, M.D.
S. BURT WOLBACH, M.D.
JOSEPH B. HOWLAND, M.D., *Secretary*

ADMINISTRATIVE DEPARTMENT

Superintendent

Service began

May 1, 1919 JOSEPH B. HOWLAND, M.D.

Assistant Superintendents

Dec. 15, 1924 LESLIE H. WRIGHT, M.D.

Jan. 15, 1925 CHARLES L. CLAY, M.D.

Executive Assistant

May 14, 1927 HELEN GOODWIN, R.N.

BOARD OF CONSULTATION

Appointed

Mar. 25, 1912 WALTER B. CANNON, M.D., *Consulting Physiologist*

Mar. 25, 1912 OTTO FOLIN, Ph.D., *Consulting Chemist*

Mar. 8, 1928 GEORGE R. MINOT, *Consulting Physician*

Jan. 13, 1916 WILLIAM H. POTTER, D.M.D., *Consulting Dental Surgeon*

Apr. 12, 1923 HANS ZINSSER, M.D., *Consulting Bacteriologist*

MEDICAL DEPARTMENT

Service began

May 1, 1912 HENRY A. CHRISTIAN, M.D., *Physician-in-Chief*

July 1, 1912 CHANNING FROTHINGHAM, M.D., *Physician*

Sept. 1, 1922 REGINALD FITZ, M.D., *Physician*

July 1, 1915 JAMES P. O'HARE, M.D., *Senior Associate in Medicine*

Aug. 8, 1919 SAMUEL A. LEVINE, M.D., *Senior Associate in Medicine*

Dec. 12, 1912 NATHANIEL K. WOOD, M.D., *Associate in Medicine*

July 1, 1915 GEORGE P. DENNY, M.D., *Associate in Medicine*

Sept. 1, 1915 I. CHANDLER WALKER, M.D., *Associate in Medicine*

Sept. 12, 1919 DONALD J. MACPHERSON, M.D., *Associate in Medicine*

Apr. 14, 1921 FRANCIS C. HALL, M.D., *Associate in Medicine*

Apr. 13, 1922 HOWARD F. ROOT, M.D., *Associate in Medicine*

Nov. 12, 1925 GUSTAVE P. GRABFIELD, M.D., *Associate in Medicine*

May 10, 1926 WILLIAM P. MURPHY, M.D., *Associate in Medicine*

May 10, 1926 EDWARD S. EMERY, JR., M.D., *Associate in Medicine*

Sept. 1, 1926 ROBERT T. MONROE, M.D., *Junior Associate in Medicine*

PETER BENT BRIGHAM HOSPITAL

Service began

Sept. 1, 1927	CHARLES L. BROWN, M.D., <i>Junior Associate in Medicine</i>
Nov. 1, 1927	LYMAN H. HOYT, M.D., <i>Junior Associate in Medicine</i>
Sept. 1, 1927	HOWARD L. ALT, M.D., <i>Resident Physician</i>
July 1, 1927	M. HERBERT BARKER, M.D., <i>Assistant Resident Physician</i>
Aug. 22, 1927	ESLEY J. KIRK, M.D., <i>Assistant Resident Physician</i>
Sept. 1, 1927	EDGAR J. MUNTER, M.D., <i>Assistant Resident Physician</i>
Sept. 1, 1927	MARSHALL N. FULTON, M.D., <i>Assistant Resident Physician</i>
Nov. 1, 1927	ROBERT J. SCHNECK, M.D., <i>Assistant Resident Physician</i>

SURGICAL DEPARTMENT

Service began

Sept. 1, 1912	HARVEY CUSHING, M.D., <i>Surgeon-in-Chief</i>
May 1, 1912	JOHN HOMANS, M.D., <i>Surgeon</i>
Oct. 1, 1912	DAVID CHEEVER, M.D., <i>Surgeon</i>
June 19, 1916	WILLIAM C. QUINBY, M.D., <i>Urological Surgeon</i>
Oct. 9, 1919	GILBERT HORRAX, M.D., <i>Senior Associate in Neurological Surgery</i>
June 15, 1924	FRANCIS C. NEWTON, M.D., <i>Senior Associate in Surgery</i>
June 12, 1924	LYMAN G. RICHARDS, M.D., <i>Associate in Otolaryngology</i>
Nov. 17, 1914	HILBERT F. DAY, M.D., <i>Associate in Surgery</i>
Sept. 14, 1923	PERCIVAL BAILEY, M.D., <i>Associate in Surgery</i>
Aug. 1, 1925	TRACY JACKSON PUTNAM, M.D., <i>Associate in Surgery</i>
Sept. 15, 1927	JOHN H. POWERS, M.D., <i>Associate in Surgery</i>
Mar. 8, 1928	JOHN FULTON, M.D., <i>Junior Associate in Surgery</i>
Mar. 8, 1928	LOUISE EISENHARDT, M.D., <i>Junior Associate in Surgery</i>
Oct. 1, 1926	CLARENCE E. BIRD, M.D., <i>Resident Surgeon</i>
July 1, 1927	ASHLEY W. OUGHTERSON, M.D., <i>Assistant Resident Surgeon</i>
July 10, 1927	BANCROFT WHEELER, M.D., <i>Assistant Resident Surgeon</i>
July 10, 1927	VINCENT VERMOUTEN, M.D., <i>Assistant Resident Surgeon</i>
Sept. 15, 1927	FRANC D. INGRAHAM, M.D., <i>Assistant Resident Surgeon</i>
Sept. 15, 1927	ARTHUR J. MCLEAN, M.D., <i>Assistant Resident Surgeon</i>
Feb. 15, 1928	HOWARD A. PATTERSON, M.D., <i>Assistant Resident Surgeon</i>

PATHOLOGICAL DEPARTMENT

Service began

Dec. 1, 1916	S. BURT WOLBACH, M.D., <i>Pathologist</i>
Sept. 1, 1927	GRANVILLE A. BENNETT, M.D., <i>Resident Pathologist</i>

OFFICERS OF THE INSTITUTION

ROENTGENOLOGICAL DEPARTMENT

Service began

May 15, 1922	MERRILL C. SOSMAN, M.D., <i>Roentgenologist</i>
Oct. 1, 1927	L. M. FETNER, M.D., <i>Assistant Resident Roentgenologist</i>
Jan. 12, 1928	EDWARD C. VOGT, M.D., <i>Associate in Roentgenology</i>
Jan. 12, 1928	ROBERT G. VANCE, M.D., <i>Associate in Roentgenology</i>

DENTAL SURGEON

Service began

Nov. 7, 1922	HAROLD A. KENT, M.D.
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MEDICAL HOUSE OFFICERS

Service began

Nov. 1, 1925	JOSEPH C. MASSEE, M.D.	<i>Service ended</i> Mar. 1, 1927
Jan. 1, 1927	M. HERBERT BARKER, M.D.	Mar. 1, 1927
Mar. 1, 1926	MARSHALL N. FULTON, M.D.	July 1, 1927
Mar. 1, 1926	WILLIAM H. POTTS, JR., M.D.	July 1, 1927
July 1, 1926	ALBERT H. MANN, M.D.	Nov. 1, 1927
July 1, 1926	ROBERT J. SCHNECK, M.D.	Nov. 1, 1927

Service will end

July 1, 1927	WILLIAM H. LEWIS, JR., M.D. ...	Mar. 1, 1928
Mar. 1, 1927	HENRY L. SCHMITZ, M.D.	July 1, 1928
Mar. 1, 1927	GEORGE BOOTH, M.D.	July 1, 1928
July 1, 1927	TYREE C. WYATT, M.D.,	July 1, 1928
July 1, 1927	ARTHUR C. TAYLOR, M.D.	Nov. 1, 1928
July 1, 1927	GREENE S. FITZHUGH, M.D.	Nov. 1, 1928
July 1, 1927	FRANK W. MARLOW, JR., M.D.	Nov. 1, 1928
Nov. 1, 1927	JOHN M. FLYNN, M.D.,	Mar. 1, 1929
Nov. 1, 1927	OLIVER J. MENARD, M.D.	Mar. 1, 1929
Nov. 1, 1927	GEORGE H. HOUCK, M.D.	Mar. 1, 1929
Mar. 1, 1928	HARRY A. DEROW	July 1, 1929
Mar. 1, 1928	DANIEL V. TROPOLI	July 1, 1929
Mar. 1, 1928	THOMAS H. McEACHERN	July 1, 1929

SURGICAL HOUSE OFFICERS

Service began

Nov. 1, 1925	DANIEL R. HIGBEE, M.D.	<i>Service ended</i> Mar. 1, 1927
Nov. 1, 1925	JOHN I. BRADLEY, M.D.	Mar. 1, 1927
Mar. 1, 1926	LYNN FORT, JR., M.D.	July 1, 1927
Mar. 1, 1926	THEODORE R. DAYTON, M.D.	July 1, 1927
July 1, 1926	JOSEPH S. BARR, M.D.	Nov. 1, 1927
July 1, 1926	WILLIAM J. GERMAN, M.D.	Nov. 1, 1927

Service will end

Nov. 1, 1926	L. CAMERON HAIGHT, M.D.	Mar. 1, 1928
Nov. 1, 1926	TRYGVE GUNDERSEN, M.D.	Mar. 1, 1928

PETER BENT BRIGHAM HOSPITAL

<i>Service began</i>		<i>Service will end</i>
Mar. 1, 1927	JOHN E. SCARFF, M.D.	July 1, 1928
Mar. 1, 1927	WILLIAM P. FARBER, M.D.	July 1, 1928
July 1, 1927	COBB PILCHER, M.D.	Nov. 1, 1928
July 1, 1927	RICHARD C. BUCKLEY, M.D.	Nov. 1, 1928
Oct. 1, 1927	ALFRED C. ORMOND, JR., M.D.	Feb. 1, 1929
Oct. 1, 1927	JAMES L. SAGEBIEL, M.D.	Feb. 1, 1929
Jan. 1, 1928	ERIC OLDBERG, M.D.	May 1, 1929
Jan. 1, 1928	ROBERT ZOLLINGER, M.D.	Mar. 1, 1929
Apr. 1, 1928	GEORGE C. CRUMP, M.D.	Aug. 1, 1929
Apr. 1, 1928	RICHARD H. MEAGHER, M.D.	Aug. 1, 1929

PATHOLOGICAL HOUSE OFFICERS

July 1, 1927	REUBEN Z. SCHULZ, M.D.
Jan. 1, 1928	TOM D. SPIES, M.D.

HOUSE OFFICER IN ROENTGENOLOGICAL DEPARTMENT

July 1, 1927	CORNELIUS DYKE, M.D.
--------------	----------------------

SCHOOL OF NURSING

Superintendent of Nurses and Principal of the School of Nursing

Service began

July 1, 1912	CARRIE M. HALL, R.N.
--------------	-------	----------------------

Assistant Superintendent of Nurses

Sept. 30, 1920	MABEL McVICKER, R.N.
----------------	-------	----------------------

Instructor in Theory

Jan. 17, 1928	KATHERINE BELL, B.S., R.N.
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Instructor in Practice

Sept. 3, 1920	HELEN M. BLAISDELL, R.N.
---------------	-------	--------------------------

Instructor in Operating Room Technique

Jan. 8, 1927	OLIVE M. PARKS, R.N.
--------------	-------	----------------------

Supervisors

July 1, 1925	.....	MARY C. GILMORE, R.N.
Sept. 16, 1927	.....	ANNE PAINE WASHBURN, A.B., R.N.
Oct. 13, 1927	.....	RACHEL TOWNSEND ADAMS, R.N.
Jan. 3, 1928	.....	EVELEAN G. PIERCE, R.N.

Night Supervisors

May 7, 1927	.....	HELEN A. NEWHALL, R.N.
Nov. 28, 1927	.....	VICTORIA A. KAVOOGHIAN, R.N.

OFFICERS OF THE INSTITUTION

Chief—Social Service Department

Aug. 17, 1914 ALICE M. CHENEY, R.N.

Dietitian

May 21, 1925 THELMA TUBBS, B.S.

Apothecary

Dec. 2, 1912 HARRY H. COMAN

Clerk

Apr. 29, 1912 LIDA E. CRAWFORD

Record Librarians

House Records

June 16, 1922 EDITH M. ROBBINS

Out-Patient Records

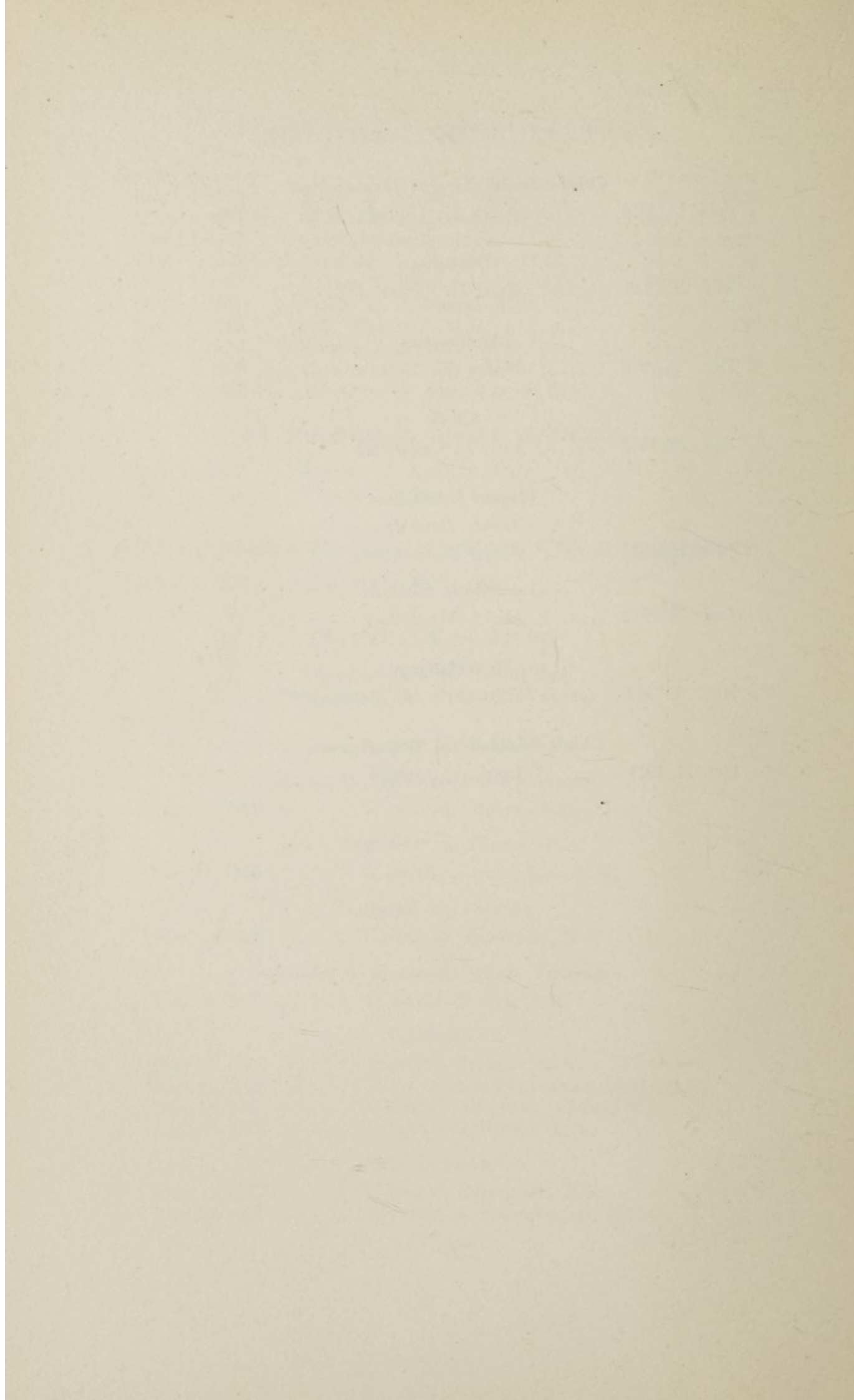
Jan. 8, 1912 MAUD MACAULAY

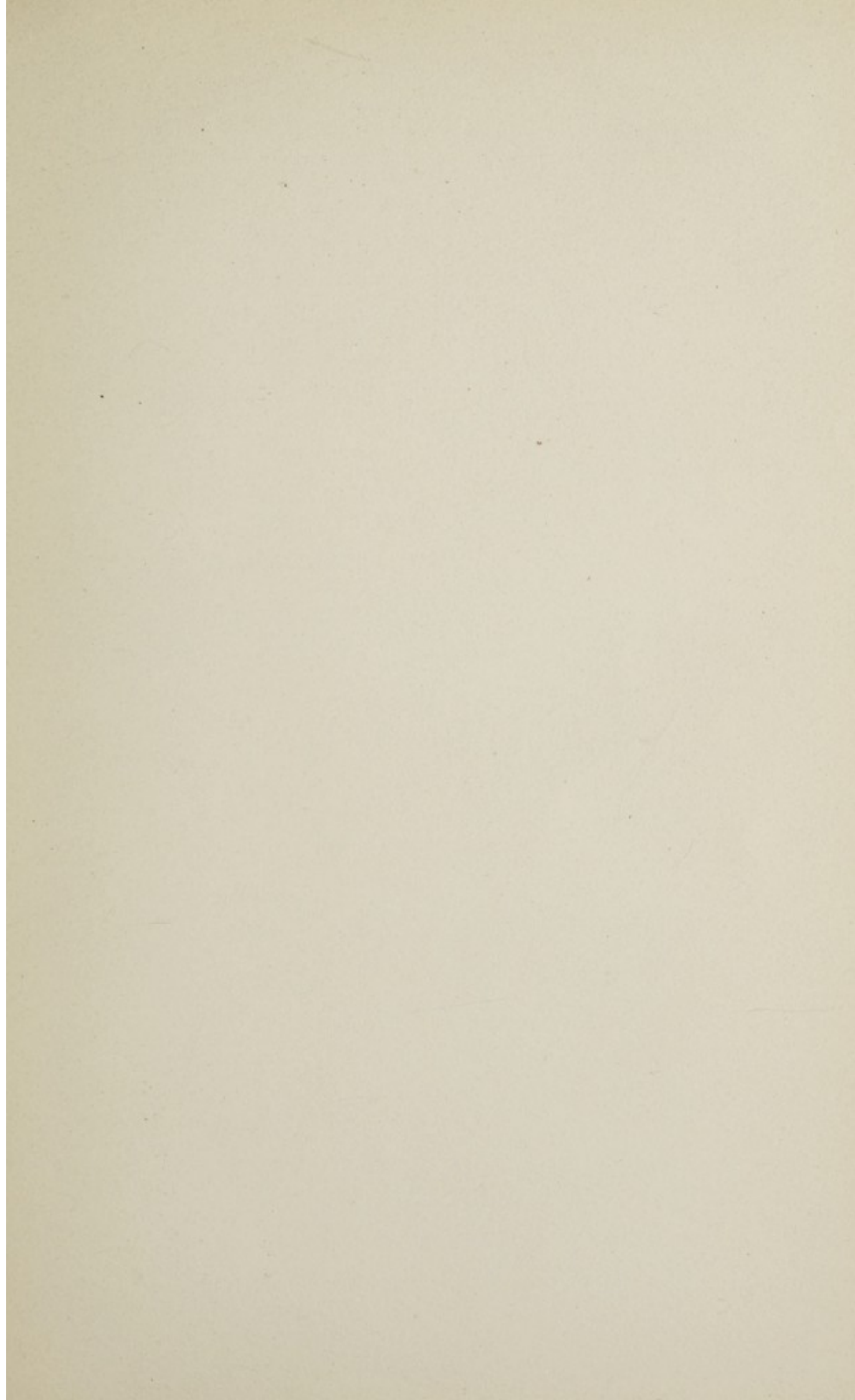
Housekeeper

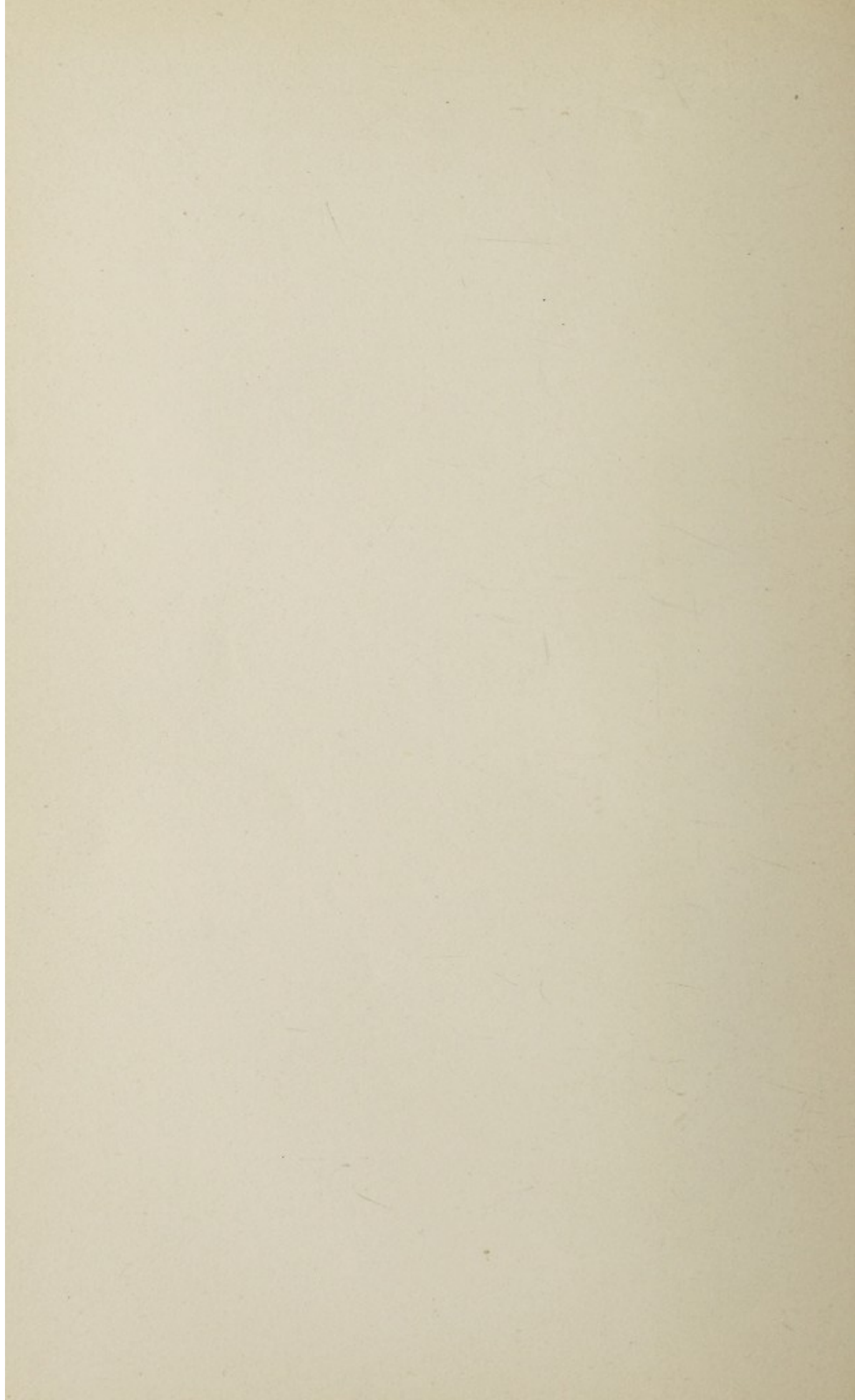
Nov. 1, 1912 ELIZABETH M. PACKARD

Chief—Mechanical Departments

Oct. 21, 1911 JOHN A. AITKEN







FORM OF BEQUEST

I give and bequeath to the Peter Bent Brigham Hospital, a corporation established under the laws of the Commonwealth of Massachusetts, the sum of _____ dollars, the same to be used for the furtherance of its charitable work.

