

Annual report of the Peter Bent Brigham Hospital : 1930.

Contributors

Peter Bent Brigham Hospital.

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PETER BENT BRIGHAM
HOSPITAL --- BOSTON

SEVENTEENTH
ANNUAL REPORT

FOR THE YEAR 1930



1931

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.



22503068916

SEVENTEENTH ANNUAL REPORT

OF THE

PETER BENT BRIGHAM
HOSPITAL

FOR THE YEAR

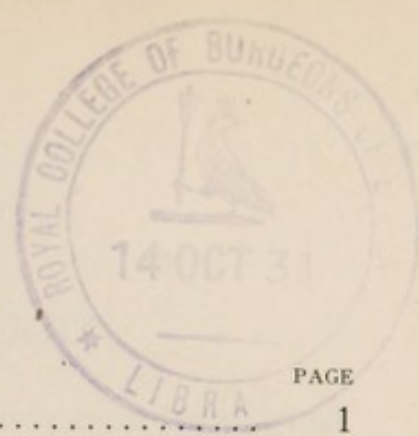
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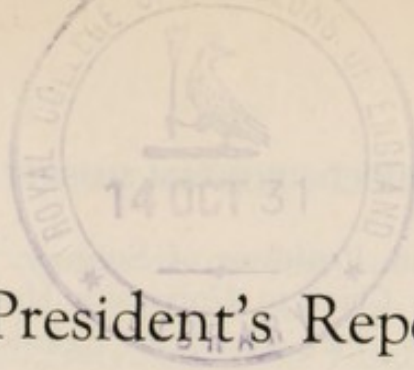


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President's Report

THE members of the Board of Incorporators record with great regret the loss which they and the Hospital have suffered in the death of Henry S. Howe, a member of the Corporation since 1902. His wise counsel will always be remembered.

We also regret to record the death of Horace M. Boyden, at the time of his death an interne in this Hospital. Doctor Boyden was graduated from the University of Oregon with the degree of A.B. He studied medicine at the University of Michigan, from which institution he was graduated in 1930. He began his internship at this Hospital in October, 1930, and during his short connection with the Hospital, gave promise of a high order.

During the coming year, we shall build additions to our Out-Patient Department, not altogether with the hope to enlarge the number of patients, but to give to those who come to us for medical aid the same careful examination, diagnosis and treatment which they would receive from private practitioners.

We take a just pride in those men who, having received a part of their education and experience in this Hospital, have been called to positions of importance in other hospitals and in medical schools in this country. During the past year, the following doctors have been honored by appointments:

Dr. Hilbert F. Day, Professor of Clinical Surgery, Tufts College Medical School.

Dr. Samuel A. Levine, Assistant Professor of Medicine, Harvard.

Dr. James P. O'Hare, Assistant Professor of Medicine, Harvard.

Dr. Reginald M. Atwater, Commissioner of Health, Cattaraugus Co., Dept. of Health, Olean, N. Y.

Dr. Percival Bailey, Professor of Surgery, University of Chicago, Chicago, Ill.

Dr. Frank B. Berry, Associate in Surgery, Columbia University, N. Y.

PETER BENT BRIGHAM HOSPITAL

- Dr. Daniel C. Elkin, Professor of Surgery, Emory University, Surgeon in Chief to University Hospitals, Atlanta, Ga.; Surgeon in Chief, Henrietta Eggleston Hospital for Children, Atlanta, Ga.
- Dr. Fred C. Fishback, Associate Professor of Clinical Surgery, Georgetown University Medical School, Washington, D. C.
- Dr. Frederic Foley, Assistant Professor of Urology, University of Minnesota Medical School; Chief Urologist, Ancker Hospital, St. Paul, Minn.
- Dr. John J. Keegan, Professor of Neuro-Surgery, University of Nebraska.
- Dr. Charles W. McClure, Chief of Gastro-Intestinal Research Division of Department of Bio-Chemistry, Evans Memorial, Boston.
- Dr. David Rapport, Professor of Physiology, Tufts Medical School, Boston.
- Dr. Henry L. Schmitz, Assistant Professor of Medicine, University of Chicago.
- Dr. Marius N. Smith-Petersen, Chief of Orthopedic Service, Massachusetts General Hospital, Boston.
- Dr. Roy G. Spurling, Assistant Professor of Surgery, University of Louisville School of Medicine.
- Dr. Harris H. Vail, Assistant Chief, Ear, Nose and Throat Out-Patient Department, Cincinnati General Hospital.
- Dr. William P. VanWagenen, Assistant Professor of Surgery, University of Rochester School of Medicine, Rochester, N. Y.
- Dr. Vincent Vermooten, Assistant Professor of Urology, Yale University Medical School.
- Dr. Gustav Wilens, Director, Montgomery County Laboratories, Montgomery County, N. Y.
- Dr. David C. Wilson, Assistant Professor Neuro-Psychiatry, University of Virginia.
- Dr. A. Barklie Coulter, Head, Department of Medicine, Gallinger Municipal Hospital; Associate Professor of Medicine, Georgetown University, Washington, D. C.
- Dr. Cornelius Dyke, Assistant Director, Department of Roentgenology, Neurological Institute of New York.

It is the ambition of this Board that this Hospital shall provide for its patients the best surgical and medical treatment,

REPORT OF THE PRESIDENT

intelligent and considerate nursing, and all possible hospital comforts. We believe it to be our duty, with the help of the public, to furnish everything to the Hospital which will add to the medical efforts of our staff, and we shall encourage and welcome gifts for educational and scientific purposes.

Dr. Leslie H. Wright, after six years of useful work as Assistant Superintendent in this Hospital, leaves us to become Director of the Genesee Hospital. He has done well at this Hospital, and we wish him success in his profession.

Miss Carrie M. Hall, Superintendent of our School of Nursing, always a prominent figure in nursing in this country, has been on a leave of absence for six months which she has used to aid and develop the profession of nursing. We shall welcome her when she returns to us.

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.

We express our appreciation and gratitude for the faithful service rendered by the staff and employees during the past year.

The Board of Incorporators is grateful for the valuable services of the following eminent physicians and surgeons who have served as temporary Chiefs of Service during the past year:

Otfrid Foerster, Professor of Neurology, University of Breslau, served as Surgeon-in-Chief pro tem from October 1st to 14th, 1930.

Gunnar Nystrom, Professor of Surgery, University of Upsala, Sweden, served as Surgeon-in-Chief pro tem from May 23rd to May 26th, 1930.

James S. McLester, Professor of Medicine, University of Alabama, served as Physician-in-Chief pro tem from April 27th to May 3, 1930.

We are grateful to the Ladies' Social Service Committee for all the valuable service they have rendered the Hospital during the past year.

CHARLES P. CURTIS,
President.

DECEMBER 31, 1930.

Memorial Upon the Death of **Henry S. Howe**

HENRY S. HOWE, a charter member of this Corporation, died March 2, 1931. During his long period of service he showed a never failing interest in the many problems involved in the building and organization of the Hospital, and in its subsequent management and work, bringing to the solution of these problems the ripened wisdom and experience gained from a wide contact with large affairs. His genial presence, his helpful sympathy and co-operation will be much missed by his associates, who desire to spread upon their records this token of regard and high esteem, and of deep sympathy with his family in the loss occasioned by his death.

Gifts to the Hospital During the Year 1930

| | | |
|--|----------|--|
| Mr. Jesse Koshland | \$ 25.00 | |
| Boston Firemen's Relief Fund for a free bed for year 1930.... | 200.00 | |
| Mr. Charles P. Curtis for a free bed for year 1930 | 100.00 | |
| Gift under Trust Deed of Sept. 12, 1928 by Abraham Gutterman | 500.00 | |
| Legacy under will of Samuel Hirschburg | 500.00 | |
| Legacy under will of Mary W. Springer | 500.00 | |
| Legacy under will of Margaret Weeman | 500.00 | |
| Mr. Harold R. Austin | 5.00 | |
| Miss Agnes M. Braun | 5.00 | |
| Committee of the Permanent Charity Fund, Inc., to be used for the general purposes of the Social Service Department | 2,150.00 | |

CARRIE M. HALL FUND:

| | | |
|--|-----------|----------|
| The Peter Bent Brigham Hospital School of Nursing Alumnae Association | \$ 800.00 | |
| Mr. Charles P. Curtis | 200.00 | |
| | | 1,000.00 |

DIABETIC RESEARCH FUND:

| | | |
|---|----------|-------|
| Mrs. Emily H. Romney | \$ 25.00 | |
| Mr. Herman Mason gift from a grateful patient | 10.00 | |
| | | 35.00 |

PHILIP H. GRAY FUND FOR THE FURTHERANCE OF NEURO-SURGERY:

| | | |
|--|-------------|-----------|
| Mrs. Almena S. Gray | \$15,000.00 | |
| Mrs. Vivien Hurin Johnson gift through Dr. Harvey Cushing | 100.00 | |
| | | 15,100.00 |

| | | |
|---|----------|--|
| Anonymous gift to the Fund for Research in Renal and Vascular Diseases through Dr. James P. O'Hara.... | 1,000.00 | |
| Mrs. S. Burt Wolbach gift to the Christmas Fund | 17.25 | |
| Lend-a-Hand Society gift to the Social Service Special Gift Fund | 5.25 | |

GIFTS TO SOCIAL SERVICE FUND

| | | | |
|-------------------------|----------|--------------------------|----------|
| Mrs. Georgiana Fisher . | \$ 50.00 | Mr. M. H. Stockton ... | \$ 10.00 |
| Mrs. Susan J. Williams | 50.00 | Mrs. Stephen M. Weld | 10.00 |
| Mr. L. A. Lawrence ... | 25.00 | Mr. S. L. Slattery | 5.00 |
| Mrs. Frances A. Denny | 25.00 | Mrs. H. Pauline Merrick | 25.00 |
| Mrs. Frances K. Warren | 25.00 | Mrs. R. W. Emmons .. | 25.00 |
| Mrs. Walter C. Baylies | 25.00 | Mrs. Heman M. Burr.. | 15.00 |
| Mrs. Isabel F. Lombard | 15.00 | Mrs. H. O. Greenough . | 10.00 |
| Miss Amelia Peabody .. | 15.00 | Miss Jane B. Hunnewell | 10.00 |

GIFTS TO THE HOSPITAL

| | | | |
|----------------------------------|--------|---|----------|
| Mrs. Edward W. Grew..\$ | 5.00 | Mrs. F. W. Sargent ...\$ | 1,000.00 |
| Mrs. Everett Morss ... | 5.00 | Mrs. Richard C. Paine .. | 50.00 |
| Mrs. Harvey Cushing .. | 100.00 | Mrs. Walter Hunnewell | 50.00 |
| Mr. Francis W. Hunnewell | 100.00 | Gen. C. R. Edwards | 25.00 |
| Mrs. A. Lawrence Lowell | 25.00 | Miss Louise Hunnewell | 20.00 |
| Mrs. Charles P. Curtis | 50.00 | Mrs. Henry Wolcott .. | 5.00 |
| Dr. and Mrs. David Cheever | 25.00 | Mr. T. Hassal Brown .. | 5.00 |
| Mrs. Elliot Hubbard ... | 10.00 | Mrs. Philip S. Dalton .. | 5.00 |
| Mrs. Geo. H. Lyman .. | 10.00 | Mr. George E. Cabot .. | 25.00 |
| Mrs. John L. Thorndike | 10.00 | Mrs. Edward A. Taft .. | 10.00 |
| Mrs. Reginald Foster .. | 5.00 | Mrs. Pierpont L. Stackpole | 200.00 |
| Mrs. E. J. Holmes | 5.00 | Mrs. Helen Cheever ... | 25.00 |
| Mrs. Francis C. Hall .. | 10.00 | Mrs. Moses Williams .. | 5.00 |
| Mrs. William Aldrich .. | 10.00 | Mrs. Ellerton James ... | 5.00 |
| Mrs. Harriet S. Curtis .. | 10.00 | Mr. Gordon Dexter ... | 25.00 |
| Mrs. Augustus Hemenway | 25.00 | Mrs. Louis A. Frothingham | 25.00 |
| Mrs. Robert W. Lovett | 25.00 | Mrs. Shepherd Brooks .. | 100.00 |
| Mr. Augustus Hemenway | 25.00 | Mrs. Gilbert Horrax .. | 10.00 |
| Mrs. Henry B. Chapin .. | 10.00 | Mr. F. W. Hunnewell .. | 75.00 |
| Mrs. Roger B. Merriman | 10.00 | Mrs. J. A. L. Blake ... | 15.00 |
| Miss Sarah F. Bremer | 25.00 | Miss Katherine Homans | 10.00 |
| Mrs. John S. Ames | 10.00 | Mrs. Murray Forbes .. | 100.00 |
| Mrs. John P. Reynolds | 5.00 | Miss Elizabeth B. Brown | 25.00 |
| Mrs. James Jackson ... | 25.00 | Mrs. Joseph Warren .. | 5.00 |
| Mrs. R. H. Stevenson .. | 5.00 | Mrs. John W. Bartol .. | 50.00 |
| Mrs. Richard C. Curtis | 25.00 | Mrs. Harry L. Bailey .. | 60.00 |
| Mrs. S. E. Guild | 5.00 | Mrs. R. H. Gardiner, Jr. | 10.00 |
| Mrs. A. F. Bemis | 25.00 | Mrs. Henry Lyman | 15.00 |
| Mr. Henry J. Sargent.. | 200.00 | Mrs. James J. Storrow .. | 15.00 |
| Mrs. Henry A. Morss .. | 25.00 | Mrs. J. Harleston Parker | 10.00 |
| Mrs. H. S. Howe | 25.00 | Mr. Gorham G. Peters .. | 50.00 |
| Mrs. H. D. Chandler .. | 5.00 | Mrs. Arthur G. Rotch .. | 10.00 |
| Mrs. Henry G. Brooks | 5.00 | Mrs. Wm. T. Councilman | 5.00 |
| Mrs. W. Rodman Peabody | 10.00 | Miss Rose Dexter | 25.00 |
| Mrs. John P. Reynolds | 20.00 | Mrs. George R. Fearing | 25.00 |
| Mrs. F. Douglas Cochran | 100.00 | Mrs. Francis W. Peabody | 10.00 |
| Mrs. Arthur G. Rotch .. | 10.00 | Mrs. S. B. Wolbach ... | 100.00 |
| Mr. Richard D. Sears .. | 10.00 | Gen. C. R. Edwards | |
| Mrs. M. G. Haughton .. | 25.00 | Trustee of the Mary Crabtree Fund | 200.00 |
| Mrs. Joseph B. Howland | 10.00 | Mrs. Robert Saltonstall | 25.00 |
| Mr. L. H. H. Johnson .. | 50.00 | Mrs. Arnold Hunnewell | 25.00 |
| Mrs. William Amory .. | 10.00 | Mrs. Geo. P. Denny ... | 25.00 |
| | | Mrs. Geo. B. Blake ... | 25.00 |

PETER BENT BRIGHAM HOSPITAL

| | | | |
|--|--------|-------------------------|----------|
| Mrs. Horace Binney ...\$ | 5.00 | Mrs. F. B. Crownin- | |
| Dr. Harvey Cushing ... | 50.00 | shield | \$ 10.00 |
| Prof. Gummar Nyström | 100.00 | Mrs. R. T. Paine, 2nd . | 25.00 |
| Miss Hersey's School | | Mrs. Joseph Warren ... | 10.00 |
| Association | 50.00 | Mrs. R. G. Shaw | 15.00 |
| Miss Ellen T. Bullard .. | 10.00 | Mr. William Amory ... | 500.00 |
| Mrs. Hilbert F. Day .. | 5.00 | Mrs. Malcolm Donald .. | 10.00 |
| Mrs. Donald McKay | | Mrs. H. G. Byng | 10.00 |
| Frost | 10.00 | Mrs. John C. Lee | 10.00 |
| Mrs. John Chipman | | Mrs. John Homans | 10.00 |
| Gray | 25.00 | Mrs. Thomas Barbour . | 10.00 |
| Mrs. Neal Rantoul | 25.00 | Mrs. Christian A. | |
| Miss Mary Hunnewell . | 10.00 | Herter | 15.00 |
| Mrs. Frances W. Emer- | | Mrs. Herbert Lyman .. | 10.00 |
| son | 50.00 | Mrs. Henry S. Grew .. | 10.00 |
| Mrs. Albert Davies | 10.00 | Mrs. Nathaniel Thayer | 25.00 |
| Miss Ida Beal | 5.00 | Mrs. W. D. Sohler | 5.00 |
| Miss Edith Fitz | 10.00 | Miss Sophie Lustiz | 50.00 |
| Mrs. C. W. Whittier .. | 15.00 | Mrs. Sidney M. Wil- | |
| Miss Evelyn Sturgis ... | 25.00 | liams | 10.00 |
| Miss Mary Curtis | 5.00 | Mrs. Joseph Warren ... | 30.00 |
| Mrs. Fred'k Winthrop . | 20.00 | Mrs. J. L. Bremer | 25.00 |
| Mr. Wm. P. Homans .. | 5.00 | Mrs. Ronald T. Lyman | 25.00 |
| Proceeds of Fair for Social Service Fund | | | 910.00 |

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 |
| Carrie M. Hall Free Bed | 5,000.00 |
| (Alumnae Association of the Peter Bent Brigham Hospital School of Nursing) | |
| Henry Saltonstall Howe Free Bed.... | 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 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, 1930, is as follows:

INCOME

Real Estate Receipts:

| | | |
|---|--------------|--------------|
| Rents | \$192,328.83 | |
| Taxes paid by tenants | 15,455.10 | |
| Insurance paid by tenants | 1,383.28 | |
| Portland St. Power Plant net receipts | 845.83 | |
| | | <hr/> |
| | | \$210,013.04 |

Interest on Investments:

| | | |
|---------------------|--------------|--------------|
| On bonds | \$ 47,852.23 | |
| On mortgages | 13,284.00 | |
| On notes | 7,163.89 | |
| | | <hr/> |
| | \$ 68,300.12 | |
| Dividends | 45,463.45 | |
| | | <hr/> |
| | | 113,763.57 |
| Bank interest | | 2,246.52 |
| | | <hr/> |
| Total income | | \$326,023.13 |

EXPENDITURES

| | | |
|-------------------------------|--------------|--------------|
| Taxes | \$ 75,182.80 | |
| Building repairs, etc. | 8,511.41 | |
| Insurance | 4,928.11 | |
| Salaries | 7,800.00 | |
| Legal expenses | 650.00 | |
| Audit | 800.00 | |
| Safe deposit box rent | 70.00 | |
| Cash book | 4.50 | |
| | | <hr/> |
| | \$ 97,946.82 | |
| Bond premiums amortized | 525.36 | |
| | | <hr/> |
| | | 98,472.18 |
| | | <hr/> |
| | | \$227,550.95 |

PETER BENT BRIGHAM HOSPITAL

| | |
|--|------------------|
| <i>Amount brought forward</i> | \$227,550.95 |
| Transferred to Portland St. Power Plant Depreciation Account ...\$ | 845.83 |
| Transfer of income applicable to the following funds for year 1930: | |
| Surgeon-in-chief Fund | 1,565.22 |
| John P. Reynolds Scholar- ship Fund | 125.00 |
| | <hr/> 2,536.05 |
| Net investment income available for Hospital operating expenses | \$225,014.90 |
| Net payment for Hospital operating expenses as shown by the Super- intendent's statement appended \$229,445.94 | |
| Decrease in Superintendent's supplies | 3,977.46 |
| | <hr/> 233,423.40 |
| Deficit for year 1930 charged to General Fund .. | \$ 8,408.50 |

SCHEDULE OF PROPERTY

| | |
|--|----------------|
| Land and buildings occupied for Hospital includ- ing furniture and fixtures | \$2,276,498.25 |
| Mortgages | 290,000.00 |
| <i>Land and buildings:</i> | |
| 166/210 Portland Street | 786,144.74 |
| 38/54 Scollay Square | 492,943.41 |
| 108/14 Lincoln Street | 153,368.45 |
| 91/5 Portland Street | 75,957.25 |
| 67/9 Commercial Street | 74,575.43 |
| 1/3 Bowdoin Street | 54,452.51 |
| 148/50 Hanover Street | 60,787.78 |
| 1/7 Sudbury Street | 60,151.83 |
| 4/14 Cambridge Street | 55,388.53 |
| 94/8 Arch and 13/17 Otis Streets | 166,211.42 |
| Land corner Albany and Dover Streets | 105,422.90 |
| 180 shares Atchison, Topeka & St. Fe R. R. Co. common | 39,474.00 |
| <i>Amount carried forward</i> | \$4,691,376.50 |

REPORT OF THE TREASURER

| | |
|---|----------------|
| <i>Amount brought forward</i> | \$4,691,376.50 |
| 1000 shares Boston & Maine R. R. Co. pfd A stamped | 129,432.68 |
| 500 shares Boston & Maine R. R. Co. pfd A unstamped | 36,178.76 |
| 620 shares Boston & Maine R. R. Co. prior pref. pfd | 62,422.99 |
| 100 shares Boston & Albany R. R. Co. | 25,800.00 |
| 524 shares Vermont & Massachusetts 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 |
| 500 shares Boston Real Estate Trust | 58,514.25 |
| 150 shares Hotel Trust (Touraine) | 15,900.00 |
| 100 shares South Terminal Trust | 10,300.00 |
| 1000 shares Berkeley Hotel Trust | 65,000.00 |
| 400 shares New York Central R. R. Co. | 40,029.20 |
| 100 shares Chicago, Milwaukee, St. Paul & Pacific R. R. pfd | 15,162.70 |
| 600 shares Pennsylvania R. R. Co. | 40,773.88 |
| 1500 shares New York, New Haven & Hartford R. R. Co. common | 28,500.00 |
| 375 shares New York, New Haven & Hartford R. R. Co. pfd | 37,500.00 |
| 186 shares Pennroad Corporation | 2,883.00 |
| \$100,000 Edison Electric Illuminating Co. 5% coupon notes due 1933 | 100,000.00 |
| 170,000 American Telephone & Telegraph Co. 5% bonds due 1965 | 168,187.50 |
| 25,000 Long Island R. R. Co. Gold Debenture 5% bonds due 1934 | 24,000.00 |
| 100,000 Chicago, Burlington & Quincy R. R. Co. Ill. Division 3½% bonds due 1949 | 89,077.50 |
| 20,000 Washington Water Power Co. 5% bonds due 1939 | 20,146.43 |
| 50,000 Interborough Rapid Transit Co. 5% bonds due 1966 | 49,500.00 |
| <i>Amount carried forward</i> | \$5,921,678.39 |

PETER BENT BRIGHAM HOSPITAL

| | |
|---|----------------|
| <i>Amount brought forward</i> | \$5,921,678.39 |
| 50,000 Burlington, Cedar Rapids & Northern R. R. Co. 5% bonds due 1934.. | 51,033.51 |
| 25,000 New York Central & Hudson River R. R. Co. first mortgage 3½% bonds due 1997 | 21,875.00 |
| 50,000 Cleveland, Lorain & Wheeling R. R. Co. 5% bonds due 1933 | 50,743.75 |
| 25,000 New York Central & Hudson River R. R. Co. Debenture 4% bonds due 1934 | 23,937.50 |
| 25,000 Northern Pacific Railway Co. Prior Lien 4% bonds due 1997 | 24,781.25 |
| 50,000 Eastern Massachusetts Street Ry. Co.] series A 4½% bonds due 1948] | 41,450.00 |
| 2,500 Eastern Massachusetts Street Ry. Co. [series D 6% bonds due 1948 ..] | |
| 25,000 Quincy Market Realty Co. 5% bonds due 1964 | 25,000.00 |
| 25,000 Indianapolis Gas Company first cons. mortgage 5% bonds due 1952 .. | 25,122.23 |
| 28,000 General Electric Company 3½% bonds due 1942 | 23,170.00 |
| 56,800 Pere Marquette Ry. Co. first 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. Fe Ry. Co. Trans-Continental Short Line 4% bonds due 1958 | 47,500.00 |
| 50,000 Illinois Steel Company 4½% bonds due 1940 | 47,375.00 |
| 25,000 Erie R. R. Co. Refunding & Imp. mortgage 5% bonds due 1975 .. | 23,875.00 |
| 25,000 Cedar Rapids Mfg. & Power Co. first mortgage sinking fund 5% bonds due 1953 | 24,250.00 |
| 15,000 Montreal Light & Power Company first mortgage 4½% bonds due 1932 | 13,875.00 |
| <i>Amount carried forward</i> | \$6,417,966.63 |

REPORT OF THE TREASURER

Amount brought forward\$6,417,966.63

50,000 Crucible Steel Company of America
5% gold debenture bonds due
1940 49,750.00

15,000 Baltimore & Ohio R. R. Co. South
Western Div. 5% bonds due 1950 14,887.50

50,000 City of Toronto, Canada General
Consolidated Loan Debenture
5% bonds due 1941 }

20,000 City of Toronto, Canada General
Consolidated Loan Debenture
5% bonds due 1943 } 99,125.00

30,000 City of Toronto, Canada General
Consolidated Loan Debenture
5% bonds due 1944 }

50,000 Canadian Pacific Railways Equipt.
Trust 5% bonds due 1944 49,625.00

2,400 Chicago, Milwaukee, St. Paul & Pacific
R. R. Co. 5% bonds due 1975 .. 2,400.00

Cash:

Operating Expense Fund\$20,000.00
In banks 33,260.75
..... 53,260.75

Superintendent's inventories 40,951.55

Accounts receivable 100.00

.....\$6,728,066.43

Included in the above schedule of
property are the following spe-
cial funds:

DIABETIC RESEARCH FUND.....\$ 978.69

PHILIP H. GRAY FUND for the
furtherance of Neuro-Surgery ... 22,142.71

JOHN P. REYNOLDS MEMORIAL
FUND 1,000.00

HEMENWAY SQUASH COURT 11,050.00

SURGICAL DRESSING FUND, Do-
nation from the New England
Surgical Dressing Committee ... 10,000.00

Amount carried forward\$45,171.40

PETER BENT BRIGHAM HOSPITAL

| | | |
|---|-------------|----------------|
| <i>Amount brought forward</i> | \$45,171.40 | |
| 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 Sar- gent | 5,000.00 | |
| WALTER HUNNEWELL FREE BED FUND | 10,000.00 | |
| CARRIE M. HALL FUND | 6,000.00 | |
| SOCIAL SERVICE FUND | 173.93 | |
| CHRISTMAS FUND | 44.17 | |
| FUND FOR RESEARCH in Renal and Vascular Diseases | 2,383.26 | |
| | <hr/> | 116,577.22 |
| | | <hr/> |
| | | \$6,611,489.21 |

Viz.:

| | |
|---|----------------|
| Peter Bent Brigham Hospital accounts | \$6,486,850.56 |
| Portland Street Power Plant Depreciation account | 6,526.92 |
| Real Estate Depreciation ac- count | 111,649.00 |
| <i>Surgeon-in-Chief Fund:</i> | |
| Income account | 3,760.88 |
| <i>John P. Reynolds Scholarship Fund:</i> | |
| Income account | 201.85 |
| Suspense account | 2,500.00 |
| | <hr/> |
| | \$6,611,489.21 |

EDMUND D. CODMAN,
Treasurer.

Report of the Superintendent

THE seventeenth annual report of the Superintendent is submitted herewith.

The year 1930 will go down in history as one of profound financial depression. Its effects have been seriously reflected in hospitals all over the country, in a number of instances to the extent of forced closure from lack of financial support. Notwithstanding the financial crash of the fall of 1929, salaries and wages of hospital personnel have been unaffected. In the main, the cost of supplies largely used by hospitals has not been reduced sufficiently to lower our expenses, indeed the total expenditures were slightly more than last year. During the latter part of the year, retail commodity prices have fallen but not to a corresponding degree in the wholesale markets through which the Hospital largely trades.

Fortunately, the year has been free from serious epidemics—in fact, it would seem to have been an unusually healthy one if we may judge from comparative hospital census figures. To some extent, we must consider the drop in the number of admissions as due to the inability of private patients to pay for accommodations.

There were admitted to the wards 4,152 patients as compared with 4,454 in 1929. The patient's days treatment were 77,852 as compared with 78,743 the previous year. The average occupancy of all hospital beds was 86.5%. It has not varied more than 1% in the past four years. For the hospitals of the United States for 1929, the average bed occupancy was 65%. Other conditions being equal, a lower census is bound to result in an increased per capita cost. The daily per capita cost for all house patients, based on the total expenditure in all departments of the Hospital (excepting the amount paid graduate special nurses employed at the expense of patients for special

PETER BENT BRIGHAM HOSPITAL

duty) was \$7.68+ as compared with \$7.41 last year. Deducting the cost of operating the private ward and out-door department, the per capita cost was \$6.45. It was \$6.35 in 1929. The per capita cost of provisions remained the same, \$.49—.

In the Out-Door Department, the number of new patients treated was 7,784, a slight decrease over the previous year, while the total number of visits to the department was 76,523 as compared with 73,593 the previous year. There was an increase in the per capita cost for out-patient visits to \$.71— as compared with \$.66+ the previous year. Other comparative figures will be found in Table II on page 26.

The hospital has always had a dentist on the consulting staff, but no regular dental work has been done at the hospital. The Executive Committee of the staff felt that many of our patients require dental work and, therefore, recommended to the Corporation the appointment of a dentist for the visiting staff and a dental interne. Both appointments were made and we now have in our out-door department twice a week a dental clinic to which patients from other departments may be referred. In addition, we have this service available to any of our patients, whether in the open or private wards. It is our feeling that it has materially added to the efficiency of our work.

Dr. Leslie H. Wright, who has been an assistant superintendent since December, 1924, left us July 1st to become Director of the Genesee Hospital in Rochester, New York. We were sorry to have Dr. Wright leave us as he has been a faithful and progressive administrator. He well deserved his advancement. Dr. Norbert A. Wilhelm was appointed on August 1st as second assistant superintendent, Dr. Charles L. Clay having been advanced to Dr. Wright's post as first assistant superintendent.

Miss Carrie M. Hall, Principal of the School of Nursing and Superintendent of Nurses, was given a six months' leave of absence by the Corporation to do field work for the Harmon Association for the Advancement of Nursing, an organization

REPORT OF THE SUPERINTENDENT

interested in endowment insurance for nurses. Miss Hall's experience as President of the National League of Nursing Education at the time the Harmon Association became interested in this subject pre-eminently fitted her to explain to the State Nurses' Associations and other nurses' organizations throughout the United States the importance of this insurance to assure an income to nurses in their declining years.

Miss Mary Robertson, assistant dietitian, resigned in June to head the dietary department at the Massachusetts Memorial Hospitals. Miss Maude Lacey succeeded Miss Robertson. A general re-organization of the work in the main and private ward kitchens took place this year. On the private ward, a selective menu was adopted for patients. This necessitated an additional cook. In the main kitchen, a chef has been placed in charge, supplanting the kitchen matron régime which had been in operation from the opening of the Hospital. The result, we believe, has been better food service. Fourteen students completed their training as student dietitians during the year. These students continue to come to us from representative colleges and universities throughout the country. 11,920 diets were prepared as compared with 13,342 in 1929. The largest item of this group was 2,829 diabetic diets. Others were: 2,005 Sippy; 1,485 High Caloric; 1,052 Special Anemia; 855 Obesity; 747 High Vitamine; 605 Low Protein, and others divided among 27 distinct types of diets.

During the year, 8,291 books were circulated from the patients' fiction library. Many gifts of books have been received, conspicuous among which are the generous contributions of Mr. Augustus Hemenway, former member of the Corporation, Dr. James P. O'Hare of the hospital staff, and Mr. Charles P. Curtis, President of the Corporation.

Few structural changes have been made in the Hospital during the past year. The ceilings of the four private wards have been covered with Acousti-Celotex, a sound-proofing material

PETER BENT BRIGHAM HOSPITAL

which has effectively fulfilled its purpose of decreasing noises both from within or without the wards.

Nothing has been decided as to the extent of additions discussed in our reports of 1927 and 1928. It is realized that additional laboratories, re-constructed operating suite, new library building, and additions to the out-patient department must be built. The Corporation has felt that, owing to the financial depression, this was a poor time to attempt to raise funds.

With renewed thanks to my co-workers in the Hospital and to the Corporation for their support,

Respectfully submitted,

JOSEPH B. HOWLAND,

Superintendent.

DECEMBER 31, 1930.

REPORT OF THE SUPERINTENDENT

Table I
Table of Medical and Surgical Diseases in
Terms of International Classification
JANUARY 1, 1930, TO JANUARY 1, 1931

| DISEASES | MEDICAL | | SURGICAL | | O. D. D. |
|---|---------|------|----------|------|----------|
| | Disch. | Dead | Disch. | Dead | |
| I. EPIDEMIC, ENDEMIC, AND INFECTIOUS DISEASES | | | | | |
| 1 Typhoid and paratyphoid fever | 3 | .. | .. | .. | 1 |
| 2 Typhus fever | 1 | .. | .. | .. | .. |
| 3 Relapsing fever | 1 | .. | .. | .. | .. |
| 4 Malta fever | 1 | .. | .. | .. | .. |
| 5 Malaria | .. | .. | 1 | .. | 1 |
| 6 Smallpox | .. | .. | .. | .. | 1 |
| 7 Measles | 3 | .. | .. | .. | .. |
| 8 Scarlet fever | 1 | .. | .. | .. | .. |
| 9 Whooping cough | .. | .. | .. | .. | 2 |
| 11 Influenza | 1 | .. | .. | .. | 24 |
| 13 Mumps | .. | .. | .. | .. | 2 |
| 16 Dysentery, bacillary | 1 | .. | 2 | .. | .. |
| 21 Erysipelas | 3 | .. | 1 | .. | 2 |
| 22 Acute anterior poliomyelitis | 1 | .. | .. | .. | 1 |
| 23 Lethargic encephalitis | 1 | .. | .. | .. | .. |
| 24 Meningococcus meningitis | 2 | 1 | .. | .. | 1 |
| 25 Other epidemic and endemic diseases | 21 | .. | 5 | .. | 239 |
| 30 Mycoses | 2 | .. | .. | .. | .. |
| 31 Tuberculosis of respiratory system ... | 65 | 3 | 19 | .. | 166 |
| 32 Tuberculosis of the meninges | 5 | 3 | .. | .. | 2 |
| 33 Tuberculosis of intestines and peri- toneum | 6 | 1 | 5 | .. | 17 |
| 34 Tuberculosis of vertebral column | 1 | .. | 2 | .. | 1 |
| 35 Tuberculosis of joints | 1 | .. | 4 | .. | .. |
| 36 Tuberculosis of other organs | 7 | 1 | 24 | 1 | 18 |
| 37 Disseminated tuberculosis | 1 | .. | .. | .. | .. |
| 38 Syphilis (includes tabes dorsalis and general paralysis of the insane) .. | 206 | 7 | 63 | .. | 288 |
| 39 Soft chancre | 1 | .. | .. | .. | 1 |
| 40 Gonococcus infection | 4 | .. | 12 | .. | 127 |
| 41 Purulent infection, septicemia | 4 | .. | 7 | .. | 22 |
| 42 Other infectious diseases | .. | .. | .. | .. | 3 |

PETER BENT BRIGHAM HOSPITAL

| DISEASES | | MEDICAL | | SURGICAL | | O. D. D. |
|---|--|---------|------|----------|------|----------|
| | | Disch. | Dead | Disch. | Dead | |
| II. GENERAL DISEASES NOT INCLUDED ABOVE | | | | | | |
| 43 | Cancer and other malignant tumors of the buccal cavity | .. | .. | 6 | .. | 5 |
| 44 | Cancer and other malignant tumors of the stomach and liver | 20 | 1 | 23 | 2 | 44 |
| 45 | Cancer and other malignant tumors of peritoneum, intestines, and rectum | 3 | 1 | 22 | 5 | 28 |
| 46 | Cancer and other malignant tumors of female genital organs | 3 | .. | 21 | .. | 28 |
| 47 | Cancer and other malignant tumors of the breast | 2 | .. | 24 | .. | 25 |
| 48 | Cancer and other malignant tumors of the skin | .. | .. | 1 | .. | 11 |
| 49 | Cancer and other malignant tumors of other and unspecified organs | 45 | 7 | 59 | 6 | 18 |
| | Malignant tumors of nervous system (verified) (includes gliomas) (cf. also 59 and 84) | 1 | 1 | 85 | 16 | .. |
| 50 | Benign tumors and tumors not returned as malignant (tumors of female genital organs excepted) .. | 9 | .. | 67 | 3 | 485 |
| 51 | Acute rheumatic fever | 29 | 1 | 2 | .. | 40 |
| 52 | Chronic rheumatism, osteoarthritis, gout | 100 | .. | 33 | .. | 615 |
| 54 | Pellagra | 3 | .. | .. | .. | .. |
| 55 | Beriberi | 1 | .. | .. | .. | .. |
| 56 | Rickets | .. | .. | 3 | .. | 26 |
| 57 | Diabetes mellitus | 99 | .. | 37 | 2 | 129 |
| 58 | Anemia | 105 | 2 | 34 | .. | 80 |
| 59 | Diseases of the pituitary gland | 2 | .. | 59 | 3 | 6 |
| 60 | Diseases of the thyroid gland | 43 | .. | 43 | .. | 225 |
| 63 | Diseases of the adrenals (Addison's disease) | 1 | .. | .. | .. | 4 |
| 64 | Diseases of the spleen | 9 | .. | 3 | .. | 1 |
| 65 | Leukemia and Hodgkin's disease | 23 | 5 | 9 | 1 | 9 |
| 66 | Alcoholism (acute or chronic) | 12 | 1 | 10 | 1 | 39 |
| 67 | Chronic poisoning by mineral substances | 4 | .. | .. | .. | 2 |
| 68 | Chronic poisoning by organic substances | 1 | .. | 3 | .. | .. |
| 69 | Other general diseases | 67 | 3 | 15 | .. | 438 |

REPORT OF THE SUPERINTENDENT

| 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, cf. 23) | 2 | 1 | 8 | 2 | 8 |
| 71 | Meningitis (does not include meningitis specified as meningococcic, tuberculous, rheumatic, etc.) | 6 | 2 | 16 | .. | 5 |
| 73 | Other diseases of the spinal cord | 26 | 1 | 4 | .. | 7 |
| 74 | Cerebral hemorrhage, apoplexy | 53 | 6 | 8 | .. | 22 |
| 75 | Paralysis without specified cause | 9 | .. | 13 | .. | 8 |
| 77 | Other forms of mental alienation | 78 | .. | 34 | .. | 132 |
| 78 | Epilepsy | 21 | .. | 11 | .. | 60 |
| 79 | Convulsions (non-puerperal) (5 years and over) | .. | .. | 3 | .. | 3 |
| 81 | Chorea | 11 | .. | 2 | .. | 23 |
| 82 | Neuralgia and neuritis | 23 | .. | 36 | .. | 128 |
| 83 | Softening of the brain | 1 | .. | .. | .. | .. |
| 84 | Other diseases of the nervous system | 106 | 1 | 23 | .. | 635 |
| | Tumors of the nervous system (verified) (cf. also 49 and 59) | .. | .. | 59 | 9 | .. |
| | Tumors of the nervous system (unverified) | .. | .. | 51 | 1 | .. |
| | Tumors of the nervous system (suspect) | 12 | .. | 96 | .. | .. |
| 85 | Diseases of the eye and annexa | 89 | .. | 13 | .. | 146 |
| 86 | Diseases of the ear and of the mastoid process | 16 | .. | 5 | .. | 33 |
| IV. DISEASES OF THE CIRCULATORY SYSTEM | | | | | | |
| 87-90 | Diseases of the heart | 492 | 67 | 75 | .. | 1296 |
| 91, 92 | Diseases of the arteries | 320 | 9 | 69 | 2 | 307 |
| 93 | Diseases of the veins (varices, hemorrhoids, phlebitis, etc.) | 46 | 1 | 113 | .. | 792 |
| 94 | Diseases of the lymphatic system (lymphangitis, etc.) | 6 | .. | 16 | .. | 61 |
| 95 | Hemorrhage without specified cause | 1 | .. | 9 | .. | 16 |
| 96 | Other diseases of the circulatory system | 255 | 1 | 47 | .. | 1 |

PETER BENT BRIGHAM HOSPITAL

| 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 | 28 | .. | 18 | .. | 163 |
| 98 | Diseases of the larynx | 4 | .. | 1 | .. | 19 |
| 99 | Bronchitis | 78 | 1 | 14 | .. | 186 |
| 100 | Bronchopneumonia (including *capillary bronchitis) | 71 | 6 | 37 | 1 | 2 |
| 101 | Pneumonia | 39 | 8 | 8 | .. | 10 |
| 102 | Pleurisy | 66 | .. | 24 | 3 | 55 |
| 103 | Congestion and hemorrhagic infarct of the lung | 18 | .. | 10 | .. | 1 |
| 105 | Asthma | 61 | 4 | 5 | .. | 276 |
| 106 | Pulmonary emphysema | 40 | .. | 2 | .. | 90 |
| 107 | Other diseases of the respiratory system | 17 | .. | 19 | 5 | 176 |
| VI. DISEASES OF THE DIGESTIVE SYSTEM | | | | | | |
| 108 | Diseases of the mouth and annexa .. | 61 | .. | 33 | .. | 240 |
| 109 | Diseases of the pharynx and tonsils | 63 | 1 | 124 | .. | 252 |
| 110 | Diseases of the esophagus | 3 | .. | 3 | .. | 5 |
| 111 | Diseases of the stomach and duodenum | 103 | 3 | 40 | 4 | 301 |
| 112 | Other diseases of the stomach (cancer excepted) | 37 | .. | 8 | .. | 173 |
| 114 | Diarrhea and enteritis (2 years and over) | 27 | .. | 36 | 1 | 127 |
| 116 | Diseases due to intestinal parasites .. | 5 | .. | 2 | .. | 2 |
| 117 | Appendicitis and typhilitis | .. | .. | 137 | 4 | 28 |
| 118 | Hernia, intestinal obstruction | 47 | .. | 165 | 1 | 198 |
| 119 | Other diseases of the intestines | 63 | .. | 85 | 4 | 682 |
| 120 | Acute yellow atrophy of the liver | 6 | 4 | .. | .. | 1 |
| 121 | Hydatid tumor of liver | .. | .. | .. | .. | 1 |
| 122 | Cirrhosis of liver | 18 | 4 | 3 | .. | 14 |
| 123 | Cholelithiasis and cholecystitis | 37 | .. | 70 | 3 | 58 |
| 124 | Other diseases of the liver | 41 | 1 | 30 | 3 | 179 |
| 125 | Diseases of the pancreas | 3 | .. | 1 | .. | 1 |
| 126 | Peritonitis without specified cause .. | 8 | 1 | 20 | 2 | 9 |

REPORT OF THE SUPERINTENDENT

| DISEASES | | MEDICAL | | SURGICAL | | O. D. D. |
|--|--|---------|------|----------|------|----------|
| | | Disch. | Dead | Disch. | Dead | |
| VII. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA | | | | | | |
| 128 | Acute nephritis | 15 | .. | .. | .. | 24 |
| 129 | Chronic nephritis | 34 | 7 | 7 | .. | 51 |
| 130 | Chyluria | 1 | .. | .. | .. | 1 |
| 131 | Other diseases of kidneys and annexa (diseases of the kidneys in preg- nancy excepted) | 27 | .. | 47 | .. | 70 |
| 132 | Calculi of the urinary passages | 9 | .. | 67 | 1 | 76 |
| 133 | Diseases of the bladder | 22 | .. | 34 | .. | 161 |
| 134 | Diseases of the urethra, urinary ab- scess, etc. | 3 | .. | 16 | .. | 40 |
| 135 | Diseases of the prostate | 14 | 1 | 54 | 2 | 75 |
| 136 | Non-venereal diseases of the male genital organs | 8 | .. | 30 | .. | 73 |
| 137 | Cysts and other benign tumors of the ovary | 3 | .. | 30 | .. | 42 |
| 138 | Salpingitis and pelvic abscess | 3 | .. | 49 | .. | 38 |
| 139 | Benign tumors of the uterus | 13 | .. | 65 | .. | 53 |
| 140 | Non-puerperal uterine hemorrhage .. | 2 | .. | 17 | 1 | 38 |
| 141 | Other diseases of the female genital organs | 19 | .. | 169 | 1 | 979 |
| 142 | Non-puerperal diseases of the breast (cancer excepted) | 2 | .. | 11 | .. | 23 |
| VIII. THE PUERPERAL STATE | | | | | | |
| 143 | Accidents of pregnancy | 3 | .. | 32 | 1 | 68 |
| | Pregnancy normal | 9 | .. | 7 | .. | 73 |
| 144 | Puerperal hemorrhage | .. | .. | .. | .. | 1 |
| 145 | Other accidents of labor | .. | .. | 2 | 1 | 1 |
| 146 | Puerperal septicemia | .. | .. | 2 | .. | .. |
| 147 | Puerperal phlegmasia alba dolens, em- bolus, sudden death | .. | .. | .. | .. | 1 |
| 148 | Puerperal albuminuria and convulsions | .. | .. | .. | .. | 2 |

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| DISEASES | | MEDICAL | | SURGICAL | | O. D. D. |
|--|--|---------|------|----------|------|----------|
| | | Disch. | Dead | Disch. | Dead | |
| IX. DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE | | | | | | |
| 151 | Gangrene | .. | .. | 7 | 1 | 7 |
| 152 | Furuncle | 4 | .. | 20 | 1 | 282 |
| 153 | Acute abscess | 7 | .. | 54 | 1 | 120 |
| 154 | Other diseases of the skin and annexa | 44 | 1 | 26 | .. | 527 |
| X. DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION | | | | | | |
| 155 | Diseases of the bones (tuberculosis excepted) | 18 | .. | 38 | .. | 79 |
| 156 | Diseases of the joints (tuberculosis and rheumatism excepted) | 19 | .. | 12 | 1 | 197 |
| 158 | Other diseases of the organs of loco- motion | 16 | .. | 29 | .. | 138 |
| XI. MALFORMATIONS | | | | | | |
| 159 | Congenital malformations | 22 | 2 | 38 | .. | 50 |
| XII. EARLY INFANCY | | | | | | |
| 162 | Other diseases peculiar to early in- fancy | .. | .. | .. | .. | 1 |
| XIII. OLD AGE | | | | | | |
| 164 | Senility | 7 | .. | 8 | .. | 14 |
| XIV. EXTERNAL CAUSES | | | | | | |
| 176 | Poisoning by venomous animals | .. | .. | .. | .. | 11 |
| 177 | Other acute accidental poisonings (gas excepted) | 9 | .. | 1 | .. | 15 |
| 179 | Accidental burns (conflagration ex- cepted) | 2 | .. | 6 | 1 | 84 |

REPORT OF THE SUPERINTENDENT

| DISEASES | MEDICAL | | SURGICAL | | O. D. D. |
|--|---------|------|----------|------|----------|
| | Disch. | Dead | Disch. | Dead | |
| 181 Accidental absorption of irrespirable or poisonous gas | 1 | .. | .. | .. | 4 |
| 182 Accidental drowning | .. | .. | .. | .. | 1 |
| 183 Accidental traumatism by firearms (weapons of war excepted) | .. | .. | 5 | 1 | .. |
| 184 Accidental traumatism by cutting or piercing instruments | .. | .. | 8 | .. | 199 |
| 185 Accidental traumatism by fall | 9 | 1 | 85 | 8 | 491 |
| 186 Accidental traumatism in mines and quarries | .. | .. | .. | .. | 1 |
| 187 Accidental traumatism by machines .. | 1 | .. | 3 | .. | .. |
| 188 Accidental traumatism by other crushing (vehicles, railways, landslides, etc.) | 5 | .. | 74 | 3 | 304 |
| 189 Injuries by animals (not poisoning) .. | .. | .. | .. | .. | 48 |
| 190 Wounds of war | .. | .. | 1 | .. | .. |
| 193 Excessive cold | .. | .. | .. | .. | 1 |
| 194 Excessive heat | .. | .. | .. | .. | 1 |
| 201 Fracture (cause not specified) | .. | .. | 1 | .. | .. |
| 202 Other external violence (cause specified) | 6 | .. | 41 | .. | 1276 |
| 203 Other external violence (cause not specified) | 7 | .. | 5 | .. | 25 |
| XV. ILL-DEFINED DISEASES | | | | | |
| 205 Diseases not specified or ill-defined .. | 37 | 1 | 9 | .. | 859 |
| No disease | 17 | .. | 21 | .. | .. |

PETER BENT BRIGHAM HOSPITAL

Table II
Comparative Tables of Statistics
HOSPITAL WARDS AND SINGLE ROOMS

| | | |
|---|-------|-------|
| Patients in hospital first of year: | | |
| | 1930 | 1929 |
| Medical | 100 | 88 |
| Surgical | 120 | 114 |
| Total | 220 | 202 |
| Patients admitted during the year: ¹ | | |
| Medical | 1,911 | 2,140 |
| Surgical | 2,210 | 2,332 |
| Total | 4,121 | 4,472 |
| Patients treated in hospital wards and private rooms during the year: | | |
| Medical | 2,011 | 2,228 |
| Surgical | 2,330 | 2,446 |
| Total | 4,341 | 4,674 |
| Patients discharged during the year: | | |
| Well | 378 | 608 |
| Improved | 2,811 | 2,671 |
| Unimproved | 278 | 297 |
| Untreated | 403 | 549 |
| Died | 282 | 329 |
| Total | 4,152 | 4,454 |
| Patients in hospital end of year: | | |
| Medical | 69 | 100 |
| Surgical | 120 | 120 |
| Total | 189 | 220 |

¹ The apparent discrepancy between these figures and those shown in the summaries of Surgical and Medical statistics on pages 106 and 133, respectively, are explained by the latter tables including transfers from Medical to Surgical and vice versa.

REPORT OF THE SUPERINTENDENT

Total patients days' treatment:

| | 1930 | 1929 |
|----------------------------|--------|--------|
| Paying patients | 37,459 | 39,839 |
| Part-paying patients | 15,771 | 14,834 |
| Free patients | 24,622 | 24,070 |
| Total | 77,852 | 78,743 |

Percentage:

| | | |
|----------------------------|-----|-----|
| Paying patients | 48+ | 51— |
| Part-paying patients | 20+ | 19— |
| Free patients | 32— | 31— |
| Total | 100 | 100 |

Average patients per day:

| | | |
|----------------------------|------|------|
| Paying patients | 103— | 109+ |
| Part-paying patients | 43+ | 41— |
| Free patients | 67+ | 66— |

| | | |
|----------------|------|------|
| Total | 213+ | 216— |
| Medical | 89+ | 96+ |
| Surgical | 124— | 119+ |

| | | |
|-------------|------|------|
| Total | 213+ | 216— |
|-------------|------|------|

| | | |
|---|---------|---------|
| Average time per patient in hospital | 18—days | 18—days |
| Daily average cost per patient | \$7.68+ | \$7.41— |
| Daily cost per capita for provisions for all persons supported | .49— | .49— |

Patients were admitted as follows:

| | | |
|-----------------------------------|-------|-------|
| Paying regular rate | 2,108 | 2,488 |
| Paying less than regular rate ... | 832 | 716 |
| Free | 1,181 | 1,268 |
| Total | 4,121 | 4,472 |

OUT-DOOR DEPARTMENT

| | | |
|-----------------------------------|-------|-------|
| Number of new cases treated | 7,784 | 7,849 |
| Medical | 3,405 | 3,438 |
| Surgical | 4,178 | 4,183 |
| Urological | 201 | 228 |

PETER BENT BRIGHAM HOSPITAL

| | 1930 | 1929 |
|--------------------------------------|-------------|-------------|
| Number of visits | 76,523 | 73,593 |
| Medical | 43,493 | 42,115 |
| Surgical | 28,002 | 27,140 |
| Urological | 5,028 | 4,338 |
| Cost of maintenance of Out-Door | | |
| Department | \$53,963.24 | \$48,802.11 |
| Daily average cost per patient | .71— | .66+ |

AMBULANCE

| | | |
|---------------------------------------|-------|-------|
| Ambulance calls during the year | 547 | 675 |
| Average calls per day | 1+ | 2— |
| Mileage for patients | 4,567 | 5,299 |
| Other business | 2,026 | 1,224 |
| | <hr/> | <hr/> |
| Total mileage | 6,593 | 6,523 |

REPORT OF THE SUPERINTENDENT

Table III

| Year | Expenses | Receipts | Number of patients admitted to wards | Total days' treatment | Average stay in hospital | Average cost per day per patient | Daily cost per capita for provisions per day | OUT-DOOR DEPARTMENT | | | |
|------|--------------|-------------|--------------------------------------|-----------------------|--------------------------|----------------------------------|--|---------------------|-------------------|--------|------------------------|
| | | | | | | | | Cost of maintenance | New cases treated | Visits | Average cost per visit |
| 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+ | 42,276.58 | 8,164 | 57,162 | .74— |
| 1928 | 636,392.29 | 431,017.71 | 4,523 | 77,691 | 17+days | *7.25— | .48— | 48,802.11 | 7,849 | 75,593 | .66+ |
| 1929 | 663,064.84 | 456,916.54 | 4,472 | 78,743 | 18—days | *7.41— | .49— | 53,963.24 | 7,784 | 76,523 | .71— |
| 1930 | 668,047.47 | 447,258.14 | 4,121 | 77,852 | 18—days | *7.68— | .49— | | | | |

*1923, 1924, 1925, 1926, 1927, 1928, 1929 and 1930 do not include the cost of special nurses.

PETER BENT BRIGHAM HOSPITAL

Table IV

Expense and Revenue Statement

ADMINISTRATION EXPENSES

| | 1930 | 1929 |
|--|--------------|--------------|
| Salaries, officers and clerks | \$35,142.40 | \$35,440.90 |
| Office expenses | | |
| Stationery, printing and postage | 8,022.47 | 7,809.54 |
| Telephone and telegraph.. | 9,679.25 | 9,522.81 |
| Liability insurance | 2,659.21 | 4,011.16 |
| Miscellaneous | 1,105.30 | 903.83 |
| Total administration expenses | \$ 56,608.63 | \$ 57,688.24 |

PROFESSIONAL CARE OF PATIENTS

| | | |
|--------------------------------------|--------------|--------------|
| Salaries and Wages: | | |
| Physicians and surgeons | \$24,983.31 | \$24,967.42 |
| Sup't of nurses and assistants | 9,014.72 | 9,385.98 |
| Nurses | 22,609.79 | 20,311.80 |
| Special nurses | 77,919.37 | 78,669.66 |
| Orderlies | 9,054.67 | 8,364.00 |
| Druggists | 6,865.12 | 6,814.40 |
| Ward employees | 11,892.49 | 11,530.41 |
| Clerks | 15,607.55 | 14,619.15 |
| Instrument repairs | 858.00 | 834.62 |
| | \$178,805.02 | \$175,497.44 |
| Training School: | | |
| Salaries | \$ 5,094.31 | \$ 4,959.58 |
| Supplies | 3,607.55 | 2,947.32 |
| | \$ 8,701.86 | \$ 7,906.90 |
| Medical and Surgical Supplies: | | |
| Apparatus and instruments | \$ 4,843.55 | \$ 3,487.73 |
| Medical and surgical supplies | 31,648.37 | 31,433.09 |
| Alcohol, liquors and wines | 1,816.11 | 1,524.70 |
| | \$ 38,308.03 | \$ 36,445.52 |
| Amounts carried forward | \$225,814.91 | \$219,849.86 |

REPORT OF THE SUPERINTENDENT

| | 1930 | 1929 |
|---|---------------------|---------------------|
| <i>Amounts brought forward</i> | \$225,814.91 | \$219,849.86 |
| Out-Door Department: | | |
| Wages | \$18,485.21 | \$16,827.06 |
| Supplies | 18,758.26 | 17,524.30 |
| | <u>\$ 37,243.47</u> | <u>\$ 34,351.36</u> |
| X-ray service and Photography: | | |
| Salaries and wages | \$22,181.97 | \$20,914.01 |
| Supplies | 18,259.29 | 18,520.02 |
| | <u>\$ 40,441.26</u> | <u>\$ 39,434.03</u> |
| Library | 800.00 | 800.00 |
| Total professional care of patients expenses | <u>\$304,299.64</u> | <u>\$294,435.25</u> |

DEPARTMENT EXPENSES

| | | |
|--------------------------------|---------------------|---------------------|
| Ambulance: | | |
| Labor | \$ 3,078.00 | \$ 3,163.02 |
| Supplies | 1,153.72 | 2,477.02 |
| | <u>\$ 4,231.72</u> | <u>\$ 5,640.04</u> |
| Laboratories: | | |
| Labor | \$15,173.14 | \$15,324.67 |
| Supplies | 6,668.17 | 6,511.65 |
| | <u>\$ 21,841.31</u> | <u>\$ 21,836.32</u> |
| Housekeeping: | | |
| Labor | \$35,343.84 | \$35,668.63 |
| Supplies | 24,690.66 | 15,803.44 |
| | <u>\$ 60,034.50</u> | <u>\$ 51,472.07</u> |
| Kitchen: | | |
| Labor | \$16,461.70 | \$14,794.93 |
| Supplies | 2,552.31 | 1,429.91 |
| | <u>\$ 19,014.01</u> | <u>\$ 16,224.84</u> |
| Laundry: | | |
| Labor | \$ 11,592.55 | \$11,251.87 |
| Supplies | 1,463.54 | 2,259.56 |
| | <u>\$ 13,056.09</u> | <u>\$ 13,511.43</u> |
| Steward's Department: | | |
| Labor | \$ 3,993.66 | \$ 3,708.79 |
| Provisions: | | |
| Bread | 3,156.30 | 3,065.34 |
| Milk and cream | 22,110.91 | 22,906.83 |
| Groceries | 19,285.26 | 17,194.65 |
| | <u>\$48,546.13</u> | <u>\$46,875.61</u> |
| <i>Amounts carried forward</i> | \$118,177.63 | \$108,684.70 |

PETER BENT BRIGHAM HOSPITAL

| | 1930 | 1929 |
|--------------------------------|--------------------|--------------------|
| <i>Amounts brought forward</i> | \$48,546.13 | \$118,177.63 |
| Butter and eggs | 13,990.57 | 15,717.68 |
| Fruit and vegetables | 13,884.80 | 11,760.51 |
| Meat, poultry and fish | 30,283.04 | 32,739.90 |
| | <hr/> \$106,704.54 | <hr/> \$107,093.70 |
| Total department expenses | \$224,882.17 | \$215,778.40 |

GENERAL HOUSE AND PROPERTY EXPENSES

| | | |
|---|--------------------|--------------------|
| Electric department | \$ 4,648.56 | \$ 4,465.54 |
| Heat, light and power | 52,603.41 | 55,569.17 |
| Fuel | 12.50 | |
| Gas | 3,019.99 | 3,171.26 |
| Ice | 98.53 | 28.00 |
| Insurance | 832.27 | 2,907.91 |
| Water | 4,815.42 | 5,134.14 |
| Maintenance real estate and buildings | 17,332.87 | 16,688.10 |
| Maintenance machinery and tools | 38.81 | 199.48 |
| Plumbing and steam fitting | 6,887.28 | 6,999.35 |
| Miscellaneous | | |
| Total general house and property ex- penses | <hr/> \$ 90,289.64 | <hr/> \$ 95,162.95 |

EXPENSES FROM SPECIAL FUNDS

| | | |
|--|--------------------|--------------------|
| Social Service Special Gift Fund | \$ 5.25 | |
| Permanent Charity Fund | 2,150.00 | \$ 2,525.00 |
| Social Service Fund | 6,073.55 | 5,846.17 |
| Diabetic Research Fund.. | 683.74 | 768.10 |
| Gray Fund | 2,727.26 | 4,770.40 |
| Fiction Library Fund | | 50.00 |
| Reynolds Scholarship Fund | 125.00 | 125.00 |
| Renal and Vascular Disease Fund | 318.82 | 1,297.92 |
| Christmas Fund | 6.90 | |
| Total expenses from special funds | <hr/> \$ 12,090.52 | <hr/> \$ 15,382.59 |

REPORT OF THE SUPERINTENDENT

CORPORATION EXPENSES

| | 1930 | 1929 |
|---------------------------------------|-----------|-----------|
| Salaries, officers and clerks | | \$ 74.89 |
| Miscellaneous | \$ 624.00 | 588.00 |
| Total corporation ex- penses | \$ 624.00 | \$ 662.89 |

CAPITAL EXPENDITURES

| | |
|----------------------------------|-------------|
| Laundry machinery | \$ 2,073.50 |
| Total capital expenditures | \$ 2,073.50 |

SUMMARY

EXPENSES

| | 1930 | 1929 |
|---|--------------|--------------|
| Total administration expenses | \$ 56,608.63 | \$ 57,688.24 |
| Total professional care of patients expenses | 304,299.64 | 294,435.25 |
| Total department expenses | 224,882.17 | 215,778.40 |
| Total general house and property expenses | 90,289.64 | 95,162.95 |
| Total hospital expenses | \$676,080.08 | \$663,064.84 |
| Corporation expenses | 624.00 | 662.89 |
| Capital expenditures | | 2,073.50 |
| | \$676,704.08 | \$665,801.23 |

SPECIAL FUNDS:

| | | |
|--|--------------|--------------|
| Social Service Special Gift Fund | \$ 5.25 | |
| Permanent Charity Fund | 2,150.00 | \$ 2,525.00 |
| Social Service Fund | 6,073.55 | 5,846.17 |
| Diabetic Research Fund | 683.74 | 768.10 |
| Gray Fund | 2,727.26 | 4,770.40 |
| Fiction Library Fund | | 50.00 |
| Reynolds Scholarship Fund | 125.00 | 125.00 |
| Renal and Vascular Disease Fund | 318.82 | 1,297.92 |
| Christmas Fund | 6.90 | |
| Grand total | \$688,794.60 | \$681,183.82 |

PETER BENT BRIGHAM HOSPITAL

REVENUE

| | 1930 | 1929 |
|--|---------------|--------------|
| Administration receipts .. | \$ 1,632.84 | \$ 1,561.45 |
| Professional care of patients: | | |
| Board of private room patients | \$123,131.53 | \$125,529.97 |
| Board of ward pay patients | 98,008.37 | 101,717.87 |
| Special nurses | 91,203.95 | 92,191.22 |
| Out-Door Department | 51,885.58 | 50,761.00 |
| Photography and X-ray | 47,559.02 | 50,815.65 |
| Miscellaneous | 31,438.61 | 31,732.91 |
| | \$443,227.06 | \$452,748.62 |
| Department Receipts: | | |
| Ambulance | \$ 2,398.24 | \$ 2,584.69 |
| Miscellaneous | | 21.78 |
| | \$ 2,398.24 | \$ 2,606.47 |
| Total hospital receipts . | \$ 447,258.14 | \$456,916.54 |
| Cash from Treasurer: | | |
| Current expenses | \$229,445.94 | \$206,811.19 |
| Reynolds Scholarship Fund | 125.00 | 125.00 |
| Permanent Charity Fund | 2,150.00 | 2,525.00 |
| Social Service Fund .. | 6,073.55 | 5,846.17 |
| Diabetic Research Fund | 683.74 | 768.10 |
| Gray Fund | 2,727.26 | 4,770.40 |
| Fiction Library Fund | | 50.00 |
| Social Service Special Gift Fund | 5.25 | |
| Renal and Vascular Disease Fund | 318.82 | 1,297.92 |
| Christmas Fund | 6.90 | |
| Additional Equipment: | | |
| Laundry machinery . | | 2,073.50 |
| | \$241,536.46 | \$224,267.28 |
| Grand total | \$688,794.60 | \$681,183.82 |

REPORT OF THE SUPERINTENDENT

Statement of Stock on Hand

| | 1930 | 1929 |
|--|-------------|-------------|
| Administration supplies | \$ 3,640.38 | \$ 4,167.33 |
| Professional care of patients | 16,296.58 | 18,308.91 |
| Department supplies | 19,697.31 | 20,863.94 |
| General house and property supplies .. | 1,317.28 | 1,588.83 |
| | <hr/> | <hr/> |
| | \$40,951.55 | \$44,929.01 |

Report of the Roentgenologist

X-RAY examination is of prime importance in the diagnosis of lesions of the gastro-intestinal tract,—its value in many cases being equal to that of an exploratory operation. Some of the older clinicians doubt that X-ray is of equal value in examination of the chest. Their doubt is based on two important foundations as I see it. First the older men were trained to make their diagnoses by means of their own skill and ability, and by long training they have acquired not only unusual skill but also exceptional judgment which acts as a sixth sense to guide them in borderline cases. Secondly, their experience in their own specialty is so extensive that they are apt to depend but little on an opinion rendered by a younger and less experienced man who uses a different method (e.g. X-rays) to arrive at that conclusion. In contrast with these men of the older medical generation, we have the newer generation, possibly less well trained in the use of simple clinical methods but brought up, as it were, with the X-ray reports on the record to guide them and their stethoscopes, who seem to have the heartiest respect for the opinions as deduced from the careful study of chest films. This is true, not only of one hospital, but of medical schools and teaching hospitals everywhere. In order to estimate the value of the X-ray in the diagnosis of intrathoracic lesions, we kept a careful record during 1930 of all chest examinations made and of all opinions rendered, similar to that done in gastro-intestinal studies for the year 1929. We must state again that we do not think that all of our diagnoses must of necessity be correct, and we realize that some of the changes shown in X-rays may not account for a given clinical picture, but we do say that the error in diagnosis is considerably less than in any other method of examination except that by post-mortem studies, where we are all continually learning. Our

REPORT OF THE ROENTGENOLOGIST

attention was directed particularly to the prevalence of and the diagnostic accuracy in pulmonary tuberculosis, but to make the study complete we kept a record of all chest examinations, in order to see what percentage of them was made for pulmonary tuberculosis.

The total number of examinations made in the X-ray Department in 1930 was 11,300. In this total of 11,300 patients examined, there were 2,140 patients who had 2,586 chest examinations made. Of this number, practically all were fluoroscoped. This is not counting fluoroscopic examination of the chest which is made incidental to a gastro-intestinal examination, of which there were 1,500 additional. In short, almost one-fourth of our diagnostic work concerns the heart and lungs, but 446 of these were re-examinations. We were interested chiefly in pulmonary tuberculosis and for purposes of record we divided the patients as accurately as possible into four groups, the division being based on the opinions of the referring physicians, in large proportion house officers with comparatively little experience in clinical medicine, most of whom co-operated with us in stating definitely why the patient was referred for X-ray examination. These four groups were (1) Those in whom pulmonary tuberculosis was definitely suspected, (2) Those in whom pulmonary tuberculosis was not suspected but was to be ruled out—in other words there was something in the history or physical examination (loss of weight, for instance) which might be due to pulmonary tuberculosis, although no definite suspicion of its presence was entertained, (3) All chest examinations for other reasons than pulmonary tuberculosis except (4) All patients referred primarily for examination of the heart.

In group one there were 180 people in whom the diagnosis of pulmonary tuberculosis was made clinically, but 61, or one-third of them had normal lungs by X-ray examination. The other 119 were classified as follows:

PETER BENT BRIGHAM HOSPITAL

TABLE I

| | |
|--|-------|
| Early tuberculosis | 12 |
| Moderately advanced tuberculosis | 9 |
| Advanced tuberculosis | 44 |
| Old apical tuberculosis | 52 |
| Tuberculous adenitis, hilus and mediastinal | 2 |
| | <hr/> |
| | 119 |

In group two (the so-called "routine chests" in which no tuberculosis was suspected) 115 out of the total of 814 were found to have lesions in their lungs, presumably due to tuberculosis. They were grouped as follows:

TABLE II

| | |
|--|-------|
| Early tuberculosis | 20 |
| Moderately advanced tuberculosis | 4 |
| Advanced tuberculosis | 19 |
| Old apical tuberculosis | 72 |
| | <hr/> |
| | 115 |

It is noted at once that the majority of this group has what we think to be an old lesion, nearly always of the adult apical type, and in all probability, either obsolete or quiescent, sometimes classed as "non-clinical pulmonary tuberculosis." Very few of these would be expected to give any physical signs. But it should be remembered that, while most of these patients never knew that they had had tuberculosis, there is still a chance of the process becoming reactivated, as frequent experiments have shown that viable tubercle bacilli may persist in these apparently healed or inactive lesions. Of greater importance is the finding of twenty cases of early pulmonary tuberculosis, almost twice the number found in the "suspect" group noted above. This section of twenty early and unsuspected cases of pulmonary tuberculosis is partly made up of doctors, nurses and students, for in these as patients the slightest symptom is considered as justification for X-ray examination, even in the absence of all physical signs, and it is in this type of case, of course, that the best clinical results are obtained, many of the

REPORT OF THE ROENTGENOLOGIST

doctors and nurses having returned to duty after their disease became inactive.

In connection with this, a word might be said concerning the routine examination of medical students under the direction of Dr. Fitz. In the four years during which systematic and complete physical examinations have been made on each student each year, there have been 423 X-ray examinations of students' chests. Any medical student who has any of the following variations from normal is referred for an X-ray of the chest: underweight; a history of pleurisy; a family or contact history of tuberculosis; an unaccounted-for anemia, or any abnormal or suspicious pulmonary signs or symptoms. This certainly includes all suspicious and most of the possible cases of tuberculosis, and yet there were found only two cases of pulmonary tuberculosis, or a percentage of only 0.5% considering the actual number examined by us, or 0.2% of the total number of students for these years. Of these two students, one knew that he had pulmonary tuberculosis before entering the medical school, and had taken the "cure" for it. His disease became active again and he was advised to withdraw. The other one had fairly extensive lesions, unknown to him, but the process has remained inactive and he is still in school. Under careful supervision he has gained weight and is in excellent condition. A third student suffered from tuberculous pleurisy but did not have any intra-pulmonary lesions demonstrable during his stay in the hospital. He withdrew from school on the advice of his physician.

Several students developed pulmonary tuberculosis after graduation, but in none of these was the presence of the disease suspected clinically or symptomatically during their school years, and those who had X-ray films showed absolutely no evidence of the disease. The incidence of tuberculosis in our medical students is strikingly lower than that reported by Opie in the students of his university where the incidence is said to be 12%. The difference can only be accounted for by a radical difference in the criteria for diagnosis.

PETER BENT BRIGHAM HOSPITAL

Discarding the "old apical" form of tuberculosis, it will be noted that there were only 110 diagnoses of clinical pulmonary tuberculosis in 2,140 patients, and yet 1,034, or almost one-half, of the chest examinations were made presumably because tuberculosis was in the mind of the physician referring the patient to us. Furthermore, the percentage of clinically undiagnosed cases is practically the same as that reported by Sampson and Brown from Trudeau, who say that 32% of their cases of tuberculosis are diagnosed by X-ray examination alone. As regards the accuracy of our method, I know of only *one* patient in ten years who had a clinical diagnosis of pulmonary tuberculosis and a negative roentgen diagnosis who was afterward proved to have the disease. This does not include patients with tuberculous pleurisy unless they also had intrapulmonary lesions. There have been several patients who had pulmonary lesions which were incorrectly diagnosed as other diseases than tuberculosis, but the percentage is small. Emery and Monroe, in their analysis of mistakes in diagnosis, showed that our percentage of correct diagnosis in pulmonary tuberculosis was very high in contrast to the clinical diagnosis.

The figures from Trudeau are similar—a positive diagnosis by the X-ray being confirmed in 99+%, and a negative diagnosis 97.5% correct.

In the third group, non-tuberculous lesions of the chest, the following table gives the incidence of the more common conditions, the second column being the number of cases in which the given disease or condition was not suspected clinically.

| | Total Cases | Unsuspected | Percent |
|-------------------------|-------------|-------------|---------|
| Pneumonia | 113 | 30 | 26+% |
| Pleurisy | 107 | 44 | 41+% |
| Empyema | 34 | 5 | 14+% |
| Pneumothorax | 16 | 7 | 43+% |
| Lung abscess | 17 | 5 | 30—% |
| Atelectasis | 20 | 9 | 45 % |
| Cervical ribs | 15 | 14 | 90+% |
| Tumors | 43 | 16 | 37+% |

(Primary and secondary)

REPORT OF THE ROENTGENOLOGIST

A few words of explanation should go with this table. The group of "pleurisy," for instance, contains many cases of old pleurisy with adhesions obliterating the costo-phrenic angle as the only remaining evidence of the disease. It does not include small adhesions which one could not expect to find by physical examination but only those extensive enough to produce some fixation of the diaphragm on that side. This group is important, however, for many of the patients might, according to modern ideas, have developed pulmonary tuberculosis from their idiopathic presumably tuberculous pleurisy. The group of pneumothorax cases includes a few accidental pneumothoraces occurring during thoracentesis either before or after entering the hospital. It is interesting that not one of the patients having cervical ribs suffered from symptoms due to the anomaly. The one case clinically recognized was felt during routine examination of the neck, and some of the others could have been felt if attention had been called to this area. Of the tumors, ten were primary carcinoma of the lung and twenty-three were metastatic. The others were mediastinal and one mistake was made by us in this group, a tumor mass being called Hodgkin's disease, accepted by the clinical staff as such, and treated by high voltage therapy. No improvement was obtained and the condition was later found to be due to masses of tuberculous glands, which may have been unfavorably influenced by the treatment. Interesting anomalies of no clinical importance not listed above were fifteen cases of bifurcated ribs and nine cases of azygos lobe, none of them noted in the clinical history.

The final group of cases, those sent for examination of the heart, needs little discussion in this report, for there is but little the X-ray can add in the diagnosis of heart disease except an accurate record of the size and shape of the heart and an impression chiefly from fluoroscopic examination as to the functional ability of the myocardium. No doubt, the chief value lies in determining the actual size of the heart, for in a

given case when there is a question of heart disease being present, a demonstrable enlargement of the heart is definite evidence pointing toward the presence of heart disease. The other important value of the X-ray is in the study of the aorta, in which much progress has recently been made. In a study of the 373 heart cases examined, the leading diagnosis numerically is seen to be hypertension, due to the large number examined for Dr. O'Hare who is making a study of this group.

Mitral disease is second in the numerical list, and there are many miscellaneous diagnoses well below these two in number. Of interest may be nine aneurisms, of which eight were clinically diagnosed, and six cases of aortitis, presumably luetic, of which five were clinically evident.

In summarizing this section of our work, it might be fairly said that X-ray examination is shown to be of greatest importance in the diagnosis of pulmonary tuberculosis. This is particularly true in the cases of early tuberculosis, for of thirty-two patients in that stage of the disease, twenty would have been missed if X-ray examination had not been made. Surely the slightest suspicion of tuberculosis is justification for careful X-ray examination, preferably stereoscopic films, even in the complete absence of any or all signs and symptoms. In the more advanced cases, the X-ray examination is most valuable in that it accurately delineates the extent of the disease, demonstrates the presence or absence of the cavities and follows the spread or recession of the lesions which may be independent of symptomatic change. In connection with this, it should be noted that the National Tuberculosis Association has at last adopted the X-ray film as the standard by which to classify the extent of the disease, an advance which was urged by some phthisiologists for years. And conversely, the physician who makes a diagnosis of normal lungs in the presence of even the slightest sign or symptom of tuberculosis is risking his reputation every time he does so without the help of careful X-ray examinations. After all, the X-ray is but one of the methods of physi-

REPORT OF THE ROENTGENOLOGIST

cal diagnosis and one of the essential ones, and it should be employed as such, routinely in pulmonary tuberculosis, frequently in the other pulmonary affections, and occasionally in the cardiac cases, particularly those in which there is doubt either as to the presence of disease or as to the presence of aortitis or aneurism.

Statistical

In company with most of the other departments of the Hospital, and in fact with almost all business as well as professional institutions, this department suffered from the depression this past year. This is the first set-back in the steady growth of the department's work since 1918, which was the lowest point reached since its inception. The work done this year almost quadruples the amount done in 1918, and in spite of a poor year, with a large increase in the number of free examinations, the department was again self-supporting with a small balance for the general funds of the Hospital. Unimportant accessions in equipment occurred during the year, but no major improvements were added with the exception of painting and lighting. With the present trend toward more and more speed in the making of exposures, and reliance upon accurate tables both for exposure and development, it is probable that the next year will see the need for more extensive replacements chiefly by larger and more powerful machines.

Personnel

The year has seen the usual shift of House Officers, Dr. Pickwick being promoted to the rank of Assistant Resident and Dr. Jackson completing his work June 30th, immediately entering the practice of roentgenology in Springfield, Mass. His position has been filled by Dr. H. F. Hare, a Harvard Medical graduate with two years medical internship since graduation. The technical and secretarial staff fortunately re-

PETER BENT BRIGHAM HOSPITAL

mains unchanged. The usual hearty co-operation and accord have been enjoyed in our contacts with the other departments of the Hospital and we trust they have received the equivalent support and co-operation from this one.

M. C. SOSMAN,
Roentgenologist.

DECEMBER 31, 1930.

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 |
|------|------------|----------------|---------|------------|--------|------------------|-------------|--------------|------------------------|
| 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 | 3,869 | 3,283 | 1,031 | 200 | 8,383 | 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 |
| 1928 | 4,846 | 4,307 | 1,112 | 607 | 10,872 | 1,162 | 26,172 | 2,941 | 1,719 |
| 1929 | 5,092 | 4,606 | 1,296 | 524 | 11,518 | 1,277 | 27,842 | 3,603 | 1,476 |
| 1930 | 4,945 | 4,602 | 1,252 | 496 | 11,295 | 1,302 | 26,523 | 4,490 | 1,411 |

Report of the School of Nursing

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

| | |
|---|-------|
| Superintendent of Nurses and Principal | |
| School of Nursing | 1 |
| Assistant Superintendent of Nurses | 1 |
| Instructors | 2 |
| Supervisors | 5 |
| Night Supervisors | 2 |
| Graduate Head Nurses and Assistants in | |
| Departments | 19½ |
| Graduate Floor Duty Nurses | 8 |
| Graduate Nurse Anesthetists | 3 |
| Masseuse | 1 |
| Student Nurses | 100 |
| Student Nurses in the Preliminary Course .. | 24 |
| | <hr/> |
| | 166½ |

Fifty-two students entered and one was readmitted. Thirty-nine students graduated and twenty-two have withdrawn.

During the year 981 requests for information about the School of Nursing have been received. A noticeable and encouraging fact is the number of such inquiries from young girls early in their high school period who are looking ahead in order to plan a suitable course of study to prepare them for nursing, and the number that come from the deans of girls and vocational guidance directors of high schools.

The total number of student sick days was 1,356—63 more than in 1929. This increase seems to be due to the long continued illness of three students, two of whom suffered from fractures, rather than to any general lessening of the good health of the majority of students. This year a plan has been

PETER BENT BRIGHAM HOSPITAL

put into effect whereby each student shall receive routinely three physical examinations during her three years here—one shortly after admission to the school, one in the middle of her course, and one just before she graduates. Students are weighed monthly in the hope that we shall be given an early warning of incipient trouble.

There have been no marked changes in the curriculum. The course in Nursing in Diseases of the Eye, Ear, Nose and Throat, which is given to senior students, has been enriched by the addition of five lectures.

On September 22nd Miss Hall, Superintendent of Nurses and Principal of the School of Nursing began a six months' leave of absence to do field work for the Harmon Association for the Advancement of Nursing. In 1927 the Harmon Association was formed as the result of the discussion of nurses concerning the difficulty in making an absolutely secure financial provision for their old age. The co-operation of the three national nursing organizations—The American Nurses' Association, The National League of Nursing Education, and the National Organization for Public Health Nursing—was sought. These organizations appointed a committee of which Miss Hall was a member, which gave the problem long and careful study. On January 14, 1929, the present system, known as the "Harmon Plan" was adopted. By this method the Harmon Association in co-operation with a well-known life insurance company offers a retirement income annuities plan to registered nurses. Between September 22nd and December 31st Miss Hall has visited twenty-three states, speaking before state nurses' associations, alumnae associations and groups of graduate nurses and senior students.

There have been few changes in the supervising and teaching staff. Winifred J. Drislane, P. B. B. H. 1917, has returned for the period of Miss Hall's absence to act as surgical supervisor. Vera B. Griffin, P. B. B. H. 1927, resigned as night supervisor and Grace Slipp, P. B. B. H. 1929, took that posi-

REPORT OF THE SCHOOL OF NURSING

tion. Elizabeth A. Hagerty, P. B. B. H. 1925, Instructor in Operating Room Technique, resigned and Muriel Weeks, 1928, has filled the position. Rachel T. Adams, Supervisor in the Out-Door Department, was granted a month's leave of absence during the summer to study under supervision the teaching program of the Vanderbilt Clinic of the Columbia Medical Center in New York City. We believe she gained much from her observation of the work there and from her contacts with other nurses who are facing problems similar to those that confront her here.

There have been many changes in the group of head nurses. The majority of these vacancies have been filled by recent graduates of this school. During this year we have increased the number of Sundays off duty for head nurses and floor duty nurses from one each month to two. The total number of sick days for graduate nurses has been 97 in contrast to 249 in 1929.

An article entitled, "The Nursing of Intracranial Cases," written by Mary Y. Regan, P. B. B. H. 1919, and published in the June number of the American Journal of Nursing, has proved very helpful in the teaching of student nurses. Miss Regan is the special neurological supervisor in this hospital.

For the last three years this report has mentioned the Committee on Grading Schools of Nursing, each year noting some progress in the work of that committee. In April of this year we received the first confidential report on our own school. The comments were for the most part favorable and the criticisms were unprejudiced and helpful. The following paragraph is marked for our special consideration:

"Granting that patients have to be nursed, must we conclude that all nursing must be done by students? Might not the addition of competent graduate floor duty nurses reduce the pressure on the student group, so as to make it possible for them to think not only of what tasks have to be done, but of why they have to be done, and what the doing of them will mean to the patient?"

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The sixteenth graduation exercises of the school were held November 21st in the Assembly Hall at Simmons College. Mr. Curtis, President of the Corporation, presided and President Lefavour of Simmons College made the address. Miss Hall was present to give the report of the school and to tell a little about the work she is doing.

The Doctor John P. Reynolds gold medal was awarded to Helen Louise Aikins. The John P. Reynolds scholarship was awarded to Ethel Maude Jordan who had attained an average of 93.9% during her first two years of work.

MARY C. GILMORE,

Asst. Supt. of Nurses.

DECEMBER 31, 1930.

Report of the Social Service Department

No one in any way connected with social agencies can be indifferent to the present unemployment situation. It has affected all classes. More demands are made on Social Service and less means supplied with which to work. It is not an easy thing to face a man or woman with a family to support, ready and able to work, who is unable to find a job. Not charity but justice is wanted in this instance. The whole subject needs careful study.

Last year Boston's Public Welfare Department cost \$3,350,000—an increase of \$750,000 over the year before; 12,000 families were aided. Of these around 5,000 could have been self-supporting had there not been the unemployment situation. It would seem that something is wrong with the present industrial organization. The need of relief is urgent. Methods of relief, however, should also aim at prevention.

Paul H. Douglas, Professor of Economics at the University of Chicago, suggests insurance to meet the loss occasioned by unemployment. He thinks it as sensible as insurance against fire.

We need not necessarily imitate the European models. He says: No financial incentive is furnished under either the English or the German system. The costs of average seasonal employment would be placed on the consumer and fresh purchasing power would be given the worker during the periods of depression, and this would help to check the decline in business. Insurance is not, therefore, an alternative which may be avoided by independent stabilization but rather an integral part of any progress of stabilization and an agency to spur business into renewed action to reduce unemployment.

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There were admitted to the Out-Patient Department of this hospital last year 7,784 new patients. From the data obtained in the Admission Office, apparently more than 1,600 of these new patients had no income. Over 3,800 had an income of \$25.00 or less. Over 2,000 of the new patients had families of five or more members. There is an increase in unemployment among these patients. Their morale is not the same. Much bitterness and anxiety is noticeable. Inability to make plans for the future often causes greater unhappiness than the immediate calamity.

In a hospital of the type of the Peter Bent Brigham, many patients come from a distance for medical or surgical care. By the terms of the Peter Bent Brigham Will, money was left for the use of patients living in Suffolk County. This means that unless out-of-county patients can pay the full rates, they cannot be admitted unless paid for by special grants.

In many cases where patients come wishing to enter the hospital from other counties or states, the Social Service Department can look up hospitals and with the patient's consent arrange for their admission to a local hospital where the patient will not only get the care needed but will be near his home.

In a surprising number of cases people will not know of a nearby hospital or will think that it is impossible to get a reduction of rates there. The Social Service Department can perhaps get the use of a free bed or get the town to pay for care in a local hospital. As usually the out-of-county patients are seriously ill, the anxious families are a problem.

A twelve-year-old American girl with acute chorea living outside Suffolk County and in need of immediate bed care, was referred from the Out-Door Department.

Patient was one of a family of eight children all living at home in an overcrowded tenement about twenty-five miles from Boston. The father had steady employment but his wages barely covered expenses for a large family and he could not pay hospital expenses.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

An attempt was made to place the patient free of charge in some other Boston hospital without success, so she was cared for over-night in a nursing home at the expense of Social Service. The following day she was taken back to her home town by automobile and arrangements made with her own doctor and the Overseers of Public Welfare for her to enter the local hospital in the town as a free patient.

The home was subsequently visited and found to be much too crowded and noisy for convalescence. The agent of the Overseers of Public Welfare who had known the family for sometime, also shared this opinion, and was willing to pay a reasonable amount for her care in a Boston hospital where she could receive more expert advice.

Consequently her name was placed on the waiting list for the House of the Good Samaritan and when a vacancy occurred there much sooner than expected, the patient was moved the following day.

Her chorea has quieted down and when her condition warrants discharge from the House of the Good Samaritan, plans are being made with a children's agency to complete her long convalescence in a foster home.

The large family as well as the patient were bountifully remembered at Christmas through the kindness of the Ladies' Social Service Committee.

LUETIC CLINIC. A few changes were made in the general régime of the Luetic Clinic during the past year. Since the new ruling of the Board of Health requires the reporting of all venereal cases whether infectious or not, only two follow-up letters are now sent out, in place of the five special and reminder letters which the secretary formerly used in her follow-up system.

The consultation clinic is held on Wednesday afternoons, when a social worker on duty during the clinic, is ready to advise and interpret the doctor's recommendations to the patients. It is a help to some of the women patients to have a woman social worker at hand, in whom they may confide. Many social maladjustments are uncovered by a chance word of friendly interest, especially among the new patients.

PETER BENT BRIGHAM HOSPITAL

| | |
|--|-------------|
| Total number of patients in 1930 | 385 |
| Men—225 | Women—160 |
| 52 single | 29 single |
| 166 married | 111 married |
| 6 widowed | 17 widowed |
| 1 divorced | 3 divorced |
| 190 white | 136 white |
| 35 colored | 24 colored |
| New patients during year 1930 | 168 |
| Men—93 | Women—75 |
| Reinstated patients during year 1930..... | 15 |
| Men—8 | Women—7 |
| Number of patients now active (Dec. 31, '30) | 314 |
| Men—187 | Women—127 |
| Discharged | 93 |
| Transferred to other hospitals or doctors | 45 |
| Discharged against advice | 26 |
| Discontinued treatment | 10 |
| Probably cured | 9 |
| Died | 3 |
| Total number of letters sent | 534 |
| Special Wednesday clinic letters | 470 |
| Board of Health letters | 64 |
| (Letters returned unclaimed—32) | |
| Reported to Board of Health | 151 |
| New patients | 137 |
| By name for having lapsed treatment | 14 |
| Total number of visits made to clinic during | |
| 1930 | 6,945 |
| Men—3,917 | Women—3,028 |
| Total number of treatments | 7,596 |
| (Arsphenamine, Neo-arsphenamine, Mercury, Bismuth, Bismarsen, Bismuth Tartrate and Tryparsimide.) | |
| Men—4,309 | |
| Women—3,287 | |

REPORT OF THE SOCIAL SERVICE DEPARTMENT

G. C. STATISTICS

| | |
|--|------------|
| Total number of patients in 1930 | 159 |
| Men—139 | Women—20 |
| 71 single | 6 single |
| 64 married | 13 married |
| 1 divorced | 0 divorced |
| 3 widowed | 1 widowed |
| 118 white | 19 white |
| 21 colored | 1 colored |
| New patients during year 1930 | 81 |
| Men—71 | Women—10 |
| Reinstated patients during year 1930 | 6 |
| Men—5 | Women—1 |
| Number of patients now active (Dec. 31, '30) | 75 |
| Men—66 | Women—9 |
| Discharged | 54 |
| Transferred to other hospitals or doctors | 15 |
| Discharged against advice | 22 |
| Discontinued treatment | 6 |
| Died | 1 |
| Probably cured | 10 |
| Total number of letters sent | 171 |
| Special G. C. letters | 152 |
| Board of Health letters | 19 |
| (Letters returned unclaimed—11) | |
| Reported to Board of Health | 64 |
| New patients | 60 |
| By name for having lapsed treatment, etc. | 4 |
| Total number of visits to clinic during year | |
| 1930 | 1,652 |
| Men—1,565 | Women—87 |
| Total number of treatments | 1,569 |
| Men—1,491 | Women—78 |

GENERAL MEDICAL CLINIC. Social work on the medical wards is presented with a variety of problems from making suitable convalescent plans, to relieving a patient's mind from worry over home conditions by readjustment. Many ward patients

PETER BENT BRIGHAM HOSPITAL

and their distraught relatives need little more social treatment than a few words of encouragement and reassurance. Patients with tuberculosis, cancer, diabetes and arthritis are automatically followed by social service. Social problems which might not be apparent to the doctor are often uncovered by a check-up of patients receiving free treatment on the wards.

In the Out-Door Department the frequent refers by the doctors of many types of problems, some simple and others intricate, make the Social Service Department seem like a real adjunct of the clinics. Money is raised for dental work, vacations planned, employment readjusted and an attempt made to straighten out the many complexities of family life. The doctors are most co-operative in their willingness to give of their time in conferences with social workers to help solve a difficult problem. By means of the follow-up system of inspection of all out-patient records, calls at the homes frequently reveal problems both medical and social of other members of the family, which are sometimes more serious than those of the patient.

| | |
|--|-----|
| Brought forward from previous year | 41 |
| New cases referred | 278 |
| Reinstated | 95 |
| | — |
| Total number during the year | 414 |
| Closed during the year | 389 |
| | — |
| Number to be carried forward | 25 |

DIABETIC CLINIC. There were 1,247 visits to the Diabetic Clinic in 1930. About 70% of the present clinic membership are persons over 50 years of age and they have the social complications of elderly people as well as the physical complications. Many of the patients are living alone on meagre savings or on allowances from public or private agencies or are dependent on relatives. The unemployment situation has made it more difficult for the families to support the patient and almost impos-

REPORT OF THE SOCIAL SERVICE DEPARTMENT

sible for a diabetic patient to get work himself. With able-bodied, well men available, an employer is not likely to take a person handicapped by a chronic disease. Diabetes is an expensive disease to have, for besides close medical supervision, the insulin and diet are expensive and the diet limits starches which are relatively cheap and increases fats, cream and butter which cost more. Also the fruits and vegetables they are allowed seem to be not the cheap ones.

The social work in the Diabetic Clinic is not of the emergency variety, it is rather the educational and friendly type of service. The student dietitians and social worker made 205 calls at the homes, explaining diets and helping adapt the facilities of the patients to meet their needs. The dietitians were particularly helpful in working out the diets so that they could be met out of a limited budget. When the dietitian has found a social and financial problem she reports this to the social worker who tries to meet the need.

The policy of most of the family agencies is that if the needs of patients are medical that those should be met by the hospital social service departments. To meet the medical needs of some of the diabetic patients takes money as well as time and effort.

One diabetic patient in the clinic has had a series of medical needs that has entailed raising considerable money.

The patient is a widow of 71 years living with and supported by a niece who works as a saleswoman in town earning less than \$20 a week. The patient has diabetes for which she takes insulin. She has no sight in one eye and only 50% vision in the other. She has arteriosclerosis, eczema and besides this is very lame. The niece is able to meet the ordinary living expenses including the aunt's diet, but the Social Service Department has raised money for convalescent care for two weeks; dental work; eye glasses; taxi fares to and from hospitals when a Red Cross car was not available, and insulin. Besides, on all trips she must be escorted for she cannot see well enough to go alone and her niece cannot leave her work to take her. The student dietitians make frequent calls to encourage her to follow her diet and to bring outside interest to her.

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She is a sociable old lady and is happier in her familiar rooms than she would be in an institution.

| | |
|--|-------|
| Brought forward from January 1, 1930 | 282 |
| New cases referred | 111 |
| Reinstated | 60 |
| <hr/> | |
| Total membership during year | 453 |
| Closed during year | 235 |
| <hr/> | |
| Present attendance January 1, 1931 | 218 |
| Total number of visits to clinic | 1,247 |
| Average number at clinic | 24 |
| Largest number at any one time (Jan. 8) . . | 37 |
| Smallest number at any one time (Dec. 24) | 12 |
| Closed cases | 235 |
| Died | 8 |
| To another clinic | 18 |
| Moved | 9 |
| Letters returned unclaimed | 16 |
| Moved out of district | 6 |
| Under care of L. M. D. | 24 |
| Not diabetic | 3 |
| Failed to respond to letters and calls . . . | 153 |
| Letters to patients | 428 |
| Calls at homes | 205 |

CARDIAC CLINIC. The Cardiac Clinic continues to show a growth in members although to not quite the same extent as that of the previous year, the total membership during 1930 being 566 against 525 of the year 1929. The following statement, however, may explain in part the small increase.

In order to conform to the statistics of the American Heart Association, all patients requiring a less frequent examination than once in six months, are counted as "closed cases" and are discharged from the list of active clinic membership. There were twenty-five such during the year 1930. The social worker in the clinic is, however, responsible for the return of these patients to the clinic and upon their re-entry they are listed as

REPORT OF THE SOCIAL SERVICE DEPARTMENT

"reinstated" cases. If any social problems should arise during the year in connection with these patients or with their families, the social worker would feel a responsibility in the consideration of their problems. According to our former method of statistical recording the present clinic membership should really be reckoned as 421 instead of 396. Likewise the total number of closed cases during the year should be reduced by 25, leaving 145 rather than 170, a number more nearly comparable to that of the previous year.

In addition the American Heart Association classifies children as those of 16 years and under. In order to conform with their statistics we have this year changed the division of our children's age group from that of 18 years and under to that of 16 and under, this showing at the close of the year a smaller proportion of boys and girls in the clinic membership.

The plan of holding two clinics a week, inaugurated last October has proved most satisfactory. The average clinic attendance has dropped from twenty members at each clinic to fourteen, obviously a more appropriate number to insure careful study of each patient.

With the steadily increasing number of patients coming to the clinic the number of social problems connected with them and with their families increase to a like degree. In considering these problems the social worker must have some knowledge of the home conditions, the school or work activities of each patient. Any frictional element must be alleviated in so far as is possible. The requisite hours of sleep and the benefit of a nourishing diet, must be clear to each patient. The mid-day rest (if such is so indicated) and the importance of refraining from becoming over fatigued must be emphasized. The social worker must feel it her responsibility to see that the doctor's directions are completely understood by the patient and are later put into practice.

In some instances a parent's fears may need to be allayed and encouragement given for a more hopeful attitude towards the

PETER BENT BRIGHAM HOSPITAL

patient's cardiac disability, while in other instances parents must be taught to be more watchful of unfavorable signs and symptoms and to curtail any undue activity. All this teaching, whether in the home or clinic, means an expenditure of the social worker's time and although it cannot easily be expressed in figures, it is one of the most important phases of the work.

It is not always necessary to remove a cardiac child from his home in order to carry out the doctor's prescribed care. Today more and more emphasis is put upon teaching the patient's family how to properly care for him in his own home. The social worker in the clinic and the Community Health Nurse frequently work together in giving this instruction.

However, for many others of our cardiac group we must make some different plan. For those whose homes prove undesirable for immediate home care, we turn to the various children's agencies, both public and private.

During the past year sixty-one children from the Cardiac Clinic were referred to the children's agencies for shorter or longer periods of foster home care. Joint efforts are frequently made by the children's workers, Family Welfare Society visitors and the social worker in the Cardiac Clinic to improve home conditions when possible during the patient's absence and so stabilize the gain made during foster home placement.

The children's agencies, Protestant, Catholic and Jewish alike, have all given conscientious and painstaking supervision in the foster home care of our cardiac children, many of whom have required complete or partial bed care.

During the year the social worker assisted Dr. Levine, the Chief of Cardiac Clinic in collecting information as to frequency of certain symptoms often present in cases of potential or active rheumatic heart disease. One hundred of the younger clinic members were interviewed and presence or absence of such symptoms noted.

In like manner, 100 "controls" of similar age, taken largely from the surgical clinic and with no history of rheumatic infec-

REPORT OF THE SOCIAL SERVICE DEPARTMENT

tion, were considered. Assistance in analyzing these figures was given the Social Service Department and a paper was subsequently written by Dr. Levine reporting the results of the study.

With a steadily increasing clinic membership the need is most urgent for more social service assistance with the many case-work problems that are constantly arising. It is literally impossible for one worker to cover the field with the present small staff and there are bound to be many social situations, not evident upon the surface, that must go untreated for lack of the social worker's time to make a thorough study of the underlying causes of the problems.

| | |
|--|-------|
| Cases brought forward from January 1, 1930 | 381 |
| New cases referred | 158 |
| Reinstated | 27 |
| | <hr/> |
| Total membership during year | 566 |
| Closed during year | 170 |
| | <hr/> |
| Present attendance January 1, 1931 | 396 |
| Total number of visits to clinic | 1,369 |
| Average number at clinic | 14 |
| Largest number at any one time (Oct. 24) | 27 |
| Smallest number at any one time (Feb. 24) | 3 |
| Of the 158 new cases referred (age division being made at 16 years) there were: | |
| 37 men, 52 women, 33 boys, 36 girls | |
| Referred from Medical O. D. D. | 110 |
| Referred from House Medical | 13 |
| Referred from Surgical O. D. D. | 3 |
| Referred from House Surgical | 1 |
| Referred from outside (including T.C.H.) | 31 |

Of the 170 closed cases:

Eight died. Thirteen were transferred to other hospitals. Twenty-seven were to be followed in other special clinics. Four moved away leaving no address. Fifty failed to

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respond to letters, postcards or calls. Six proved unco-operative. Eleven were discharged to L. M. D. Letters from seven patients were returned unclaimed. Eight were found to have no heart disease. Four moved too far away to attend clinic. Twenty-five are reporting at longer intervals than six months (six months to one year).

Of the present clinic of 396 members, there are:

83 men, 149 women, 72 boys, 92 girls

ARTHRITIC CLINIC. The patients in the Arthritic Clinic are anxious for help for they realize that they are facing a disease that is painful and may be crippling in its effect. Dr. Bigelow, State Committee of Health, speaking before the Massachusetts Central Health Council, said there were over 150,000 cases in Massachusetts ranging from minor symptoms to complete paralysis. He believed that a diagnosis in the early days of the illness would go a long way to avoid permanent disability.

The patients all seem to know some one who is bedridden by arthritis and one of the things Dr. Hall impresses on the patients is that with proper care the disease can be arrested. This hopeful attitude is reinforced by the patients talking to other patients who have improved. Luckily the majority of patients coming to the clinic are improving.

The directions as to rest and diet are not easy to carry out at home. For some they are impossible, and care away from home duties seems indicated.

Many of the patients coming to the clinic have been office workers, teachers and skilled mechanics but have spent their savings in a fruitless search for health and cannot meet extra financial burdens.

We need a fund to meet the needs of the patients in the arthritic clinic for until there are more hospital beds available

REPORT OF THE SOCIAL SERVICE DEPARTMENT

the majority of arthritic patients must depend on out-patient care.

Last year there were 728 visits to the arthritic clinic. There were 87 new patients admitted to the clinic.

SURGICAL CLINIC. The worker on the Surgical Service this past year has as usual been called upon most often to help patients with immediate and specific problems of arranging convalescent or nursing home care, of arranging chronic hospital or sanatorium care and of procuring apparatus. The diseases on the surgical ward that most frequently present social aspects are cancer, chronic osteomyelitis and bone tuberculosis.

With cancer patients it is often a question of making them comfortable for the few months remaining. The patient may be a single, middle-aged woman, weakened by months of suffering, who has spent her earnings in further attempt to gain a cure. It may be a young man, father of young children, whose incapacity for work and subsequent loss, necessitates entire family readjustment, as well as provision for his comfort and care.

The House of the Good Samaritan, Pondville State Hospital and the Holy Ghost Hospital have accepted many of our patients for long-time care.

As might be expected, the worker discovered in many cases, additional needs that are not apparent when the case is first referred.

Requests for help in purchasing apparatus have come this year from patients who ordinarily would have been able to pay for a brace or shoes themselves. Patients who have struggled along on greatly reduced earnings and have managed to meet ordinary expenditures have not been able to meet the additional expense of illness. The various funds have been generous in helping such patients.

PETER BENT BRIGHAM HOSPITAL

| | |
|--|-----|
| Brought forward from previous year | 10 |
| New cases referred | 267 |
| <hr/> | |
| Total number during the year | 277 |
| Closed cases | 248 |
| <hr/> | |
| Number to be carried forward | 29 |

Including social contacts in clinics and follow-up, 5,000 patients have had some service from the Social Service Department. Patients referred for some definite social problem:

| | |
|--|-----|
| Brought forward from previous year | 435 |
| New cases referred | 676 |
| Reinstated | 167 |

These patients were referred from:

| | House | O. D. D. | Total |
|------------------------|-------|----------|-------|
| Medical service | 191 | 326 | 517 |
| Surgical service | 99 | 62 | 161 |
| Outside agencies | .. | .. | 70 |
| Patients | .. | .. | 24 |
| Other sources | .. | .. | 65 |
| L. M. D. | .. | .. | 2 |
| Admitting office | .. | .. | 4 |

STEERING AND FOLLOW-UP

| | |
|--|-------|
| Outside agencies, steering and follow-up service | 436 |
| Follow-up letters and postcards | 3,073 |
| Visits to homes of patients | 726 |

Mrs. Gertrude Abercrombie Keach resigned from this department last June. We are happy to report that at the first of the year (1931) she gave birth to a little girl.

Miss Sally Briggs, graduate of the Simmons College School of Social Work and previously with the Children's Friend Society for seven years, has joined the staff.

Last spring Dr. Fitz asked for a worker to assist him with a group of young diabetic patients whom he was studying and giving medical treatment. Miss Olga Alexieff was assigned

REPORT OF THE SOCIAL SERVICE DEPARTMENT

to this clinic. At Dr. Burnett's request a volunteer worker, Miss Helen Roy, was found to assist him in his special Arthritic Clinic. Miss Roy has also given a good deal of assistance in the new Dental Clinic at Dr. Strock's request.

Miss Homans, Mrs. Jillson and Miss Atwill have continued faithfully to give of their services throughout the year.

As in previous years, the department has given supervised field work to the students of the Simmons College School of Social Work.

As the work of the department increases, the need is felt for further assistance. A part-time worker is essential in the Cardiac Clinic. It is clearly apparent that Miss Andren cannot carry 565 patients and care for all the social problems. More help is also needed with medical patients.

Many more demands have been made on the department the past year for financial assistance as patients formerly self-supporting have been unable to provide nourishment, rest and treatment recommended by the doctors. A fund of \$500 to be used for these patients would help to restore many to earning capacity.

Through the kindness of General Clarence R. Edwards, the sum of \$200 from the Lotta Crabtree Estate in memory of her mother, Mary Crabtree, was given Social Service to be spent for Christmas gifts. This was distributed to our patients in the form of bags of food, clothing, milk, plants and small sums of money. These were greatly appreciated by the patients and gave a great deal of happiness to the workers in being able to give so much pleasure.

Charitable agencies of Boston and vicinity have given as usual splendid co-operation. Over 100 agencies were listed in the resources used last year. It is not possible to list all the agencies here but among those to whom we turn the most often are: Chickering House, St. Luke's Home, Jewish Convalescent Home, Wellesley Convalescent Home, which provided convalescent care for over 70 patients; 60 patients needing prolonged

PETER BENT BRIGHAM HOSPITAL

hospital care were sent to the Robert B. Brigham Hospital; the House of the Good Samaritan and other hospitals; ten patients were sent to the Holy Ghost Hospital; Adams Nervine Asylum; Bickur Cholim Hospital and St. Monica's Home; 30 were transferred to sanatoria for tuberculosis. The Community Health Association and other nursing organizations were asked to visit 55 or more patients; 63 patients were referred to Family Welfare Societies. Sixty-one children were referred from the Cardiac Clinic for convalescent care or vacations to Children's Aid Association; Children's Friend Society; Children's Mission; New England Home for Little Wanderers; Jewish Children's Bureau; Farrington Memorial and Country Week. The Red Cross Motor Service have given our patients much help in bringing to the hospital for treatment those unable to travel by street cars.

Two thousand five hundred forty-nine dollars and eighty-three cents was raised for patients needing special nursing and outside hospital care, extra nourishment, apparatus, dentistry, glasses and transportation, from the following sources:

| | |
|---|-----------|
| "Divers Good Causes," <i>Boston Transcript</i> .. | \$ 792.50 |
| Friends | 1,129.93 |
| Benton Fund | 105.00 |
| Boston Provident Association | 262.25 |
| Bureau for Aged Women | 7.00 |
| Church Workers | 11.30 |
| City Missionary | 25.00 |
| Eckley Fund | 31.00 |
| Lend A Hand Society | 118.16 |
| Invalid Aid Society | 38.00 |
| Fragment Society | 8.06 |
| Miscellaneous | 21.63 |

We take this opportunity to gratefully acknowledge the assistance given us by the Ladies' Committee of the Social Service Department. They have held conferences here at the hospital once a month to hear the report from the workers and visit the various departments of the Social Service. Also they

REPORT OF THE SOCIAL SERVICE DEPARTMENT

had charge of the Christmas celebration on the wards of the hospital which was enjoyed by the patients and members of the hospital staff alike. We also wish to express our appreciation for the financial aid which the Permanent Charity Fund, Inc., has given us.

During the year there has been the same spirit of friendliness and helpfulness throughout the hospital, the same generous co-operation from our fellow agencies in the community.

STAFF OF WORKERS

General Service

ALICE M. CHENEY, R.N.

Cardiac Clinic

THEKLA ANDREN

KATHARINE A. HOMANS (volunteer)

Surgical Service—Diabetic Clinic

OLGA ALEXIEFF

Goiter Clinic

ESTHER W. ATWILL (volunteer)

Medical Service—Luetic Clinic

GERTRUDE KEACH (resigned June 14, 1930)

SALLY BRIGGS (began September 15, 1930)

Diabetic Clinic—Arthritic Clinic

MARGERY L. CROTHERS

MRS. F. C. JILLSON (volunteer)

Clerical Staff

AGNES F. DAY

ADDIE M. COOLIDGE

ALICE M. CHENEY, R.N.,

Chief—Social Service Department.

DECEMBER 31, 1930.

Report of the Pathologist

THE figures for the department are as follows:

| | |
|---|-------|
| Autopsies, medical service | 97 |
| Autopsies, done outside for medical service ... | 2 |
| Autopsies, surgical service | 48 |
| Autopsies, done outside for surgical service ... | 0 |
| Autopsies, neurological service | 28 |
| Autopsies, done outside for neurological service | 17 |
| <hr/> | |
| Total number of autopsies recorded | 192 |
| General autopsies recorded | 168 |
| Neurological autopsies | 45 |
| <hr/> | |
| | 213 |
| Recorded autopsies | 213 |
| Autopsies counted twice | 21 |
| <hr/> | |
| Actual total | 192 |
| | |
| Reports on surgical specimens | 1,182 |
| Reports on neurological specimens | 195 |
| Reports on bacteriological specimens | 1,032 |
| Guinea pig inoculations for suspected tubercu- losis | 168 |
| <hr/> | |
| Total | 2,577 |

There were 282 deaths in the hospital, of which 174 were medical, 78 were surgical and 30 were neurological. Fifteen deaths, three medical and 12 surgical, were investigated by the Medical Examiner.

The percentage of autopsies for the year after deducting the thirteen cases taken over by the Medical Examiner proves to be 64.4%. The percentage of autopsies for the various services after making corrections for autopsies twice entered is:

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Medical, 56.7% ; surgical, 72.8% ; neurological, 93.3%.

The number and percentage of autopsies for all years are:

| Year | Number | Per cent |
|--------------------|----------|----------|
| 1930..... | 192..... | 64.4 |
| 1929..... | 240..... | 68.6 |
| 1928..... | 219..... | 59.6 |
| 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 | Number |
|-----------|--------|
| 1930..... | 2,577 |
| 1929..... | 2,649 |
| 1928..... | 3,497 |
| 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 |

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Changes in the staff in the last year are as follows: Dr. Arthur T. Hertig succeeded Dr. Rudolf Osgood and Dr. James Perry Tollman succeeded Dr. George M. Hass in the positions of Pathological House Officers on July 1, 1930, and January 1, 1931, respectively. Dr. Olive Gates was appointed Voluntary Graduate Assistant in October, 1930. Dr. Hass becomes Resident Pathologist at the Children's Hospital in July and Dr. Hertig becomes Resident Pathologist at the Boston Lying-In Hospital in July.

We have no publications to report for the last year although a number of studies have been carried on and are in process of preparation for publication. These will probably show in the next report.

It is a pleasure to record the acquisition of an additional typist and that the protocols are rapidly being brought to date.

S. B. WOLBACH,

Pathologist.

DECEMBER 31, 1930.

Report of the Surgeon-in-Chief

A SURGICAL TEXTBOOK. What in interest and importance overshadows all else at the turn of the year is the publication of Dr. Homans' Textbook of Surgery. That it is largely a Brigham product—even the fact that the author has any connection with the Brigham Hospital—has been properly and generously concealed so that the Harvard Medical School might have the sole and undivided credit for its appearance.

The book purports to be the expression of opinion of the Surgical Department of the School and many members of the Department, to whom the author gives acknowledgment by name, have, during the eight years which have been given to the book's composition, been induced to share in a small way in its preparation. But the book is not a patchwork affair; this would have ruined it. In its final form it is wholly in Dr. Homans' unique, racy and inimitable style. It is, in other words, a book to read. That it will contribute greatly to the effectiveness of the surgical instruction of our own students goes without saying, and in all probability it will be no less eagerly received in other medical schools.

To write a successful book some one person must not only go through the slow and painful process of saturating himself with the subject but must put his very heart in its subsequent presentation. Reference was made in the preceding annual report to another book which had just been published and which was supposed to represent the views not of a single department but of the entire faculty. Its expressed purpose was to emphasize in the Harvard Medical School the principles of preventive medicine as being equal in importance to the principles of curative medicine. It was doomed to failure in the first place because an anonymous author was subsidized

to do the writing, and in the second place because it is questionable whether a medical school should lay any such emphasis. One must first learn how to recognize and treat a given disorder before there is any possibility of establishing measures to prevent its occurrence; and for every malady that we know how to prevent, there are countless others whose cause we do not even pretend to know, and yet they must be taught to medical students. All this perhaps applies more particularly to the essentially surgical disorders with which Dr. Homans' Textbook deals and it may not be amiss to recall what was made the underlying purpose of its preparation.

A decade ago there developed in the School a peculiar sentiment unfavorable to lectures. That some teachers possess a natural gift of conveying knowledge to students through this medium which lends itself to the presentation of information and points of view not readily found, if to be found at all, in books, was given scant consideration. Lectures, in short, were old-fashioned, out of date, and should so far as possible be eliminated. Accordingly, by faculty action, the number of lecture hours of all departments but more especially those which had once been accredited to surgery were greatly curtailed, it being assumed that the students would profit more by being given free time for reading. In consequence of this the surgical teachers found themselves greatly handicapped from want of opportunity suitably to present a proper résumé of their highly complicated and difficult subject matter to the student body as a whole as introductory to the more practical work in sections.

There were, to be sure, and always have been a goodly number of surgical textbooks, many of them works that have gone through a succession of editions and have been used by generations of surgeons. But these books have been almost wholly ones of reference, abounding in detail, growing larger and more voluminous with each added issue until they were books as impossible to read as a dictionary and useful only as a source of

REPORT OF THE SURGEON-IN-CHIEF

reference for practitioners. With books of this type alone available, lectures were necessary if for no other reason than to indicate to undergraduate students what were the things, in their stage of education, deserving emphasis. So in this predicament a meeting of the Department was held and a proposal made that we should endeavor somehow to get into print a volume, covering the general principles of surgery and giving some idea of the many subdivisions of the craft, which undergraduate students would be expected actually to read *through*.

It was assumed at the time that each surgical sub-department—surgical pathology, gynæcology, orthopædics, ophthalmic surgery, children's surgery, etc.—would be responsible for its own independent chapter. For the assembling and co-ordinating of the material some one must needs act as editor and Dr. Homans was prevailed upon to serve in this capacity. Little did he, or perhaps any of us, fully realize that a book that amounts to anything can never be written in this way; and so gradually and painfully he came to learn that neither threats nor cajolings could draw the desired chapters out of his colleagues. Hence with what material he could extract from them he ultimately set doggedly to work on the eight years' task of writing the bulk of the book himself.

It has often been stated that Osler's Textbook of Medicine was the best existent textbook of surgery. This means little more than that general medicine is the basis of surgery and that Osler as long ago as 1892 composed a highly readable book which like a woman's gown of the period was long enough to cover the subject and short enough to be interesting. Though an attempt to cover in like fashion the shifting, complicated subject of surgery is an immensely more difficult task, as Osler would have been the first to admit, Homans has come closer to it than anyone, certainly in English, has heretofore done, and I have a feeling that his Surgery will come to be as indispensable for the physician as Osler's Medicine has long been for the surgeon.

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IMPRESSIONS OF AN INMATE. The momentous publication of Dr. Homans' volume was not actually the cause though it happened to coincide with the chief-surgeon's entry into the hospital as a patient. This is of no importance other than that it provides an explanation both for the brevity and the delay of this annual report. At the same time it gives an excuse for certain ruminations from the patient's standpoint.

Apart from an enforced sojourn of a month in a military hospital in France near the time of the Armistice, he has not been obliged to miss a day's work owing to an illness of any sort since he was violently separated from his vermiform appendix over thirty years ago when a house officer at the Johns Hopkins Hospital. Neither of these episodes as an experience really counts for much. A military hospital is a nigh hopeless proposition whether one takes it standing at the bedside or actually lying in the bed. Then, too, every house officer may expect to be laid up at one time or another, for theirs is an exposed and strenuous life and the incident may be looked upon as one not without value as a part of one's training.

But to be an inmate for the first time in a hospital in which one has been ordering other people, for a period of nigh twenty years, to take to bed is an experience not unlike that of Alice on stepping through the looking glass. To be sure, from the layman's point of view books aplenty "Speaking of Operations" have been written by "Merely the Patient," several copies of which are certain to be sent to your bedside in company with flowers by sympathetic friends. Just as every medical student should undergo the "ordeal" of the stomach tube, lumbar puncture, venesection, bismuth test meal, enema and bedpan before he is entitled to subject others to these devices, so one comes to feel that every hospital servant from superintendent to orderly, matron to scrubwoman, clinical chief to laboratory technician, would be the better for an obligatory period of hospitalization, for there is much to be learned from the inside.

REPORT OF THE SURGEON-IN-CHIEF

Indeed, it has been suggested that this regulation might even be made to apply to future Trustees each of whom as an initiation fee should be called upon before his official appointment to endow a bed in a public ward and then for his further information be obliged incognito to occupy it, say for a week, and be thoroughly and completely examined meanwhile by all the laboratory methods now in fashion. It might perhaps be done in a week, and a much chastened and highly informed Trustee would then emerge fully entitled by personally acquired experience subsequently to pass some sort of judgment on what a hospital is all about.

To be sure, being a somewhat more privileged character than even a Trustee the Chief-Surgeon was excused from the inaugural ordeal of passing the admitting office and from much else that makes up the sum total of hospital humiliations and exposures to which he theoretically should have submitted. His first actual rebellion came when the effort was made to separate him from his clothes—more particularly his trousers, for in their absence there was no obvious possibility of early escape should this inclination have come to him in the middle of the night. A man deprived of his pants gives up not only independence but identity—even hope. This point having been gained in his favor, there was no place to hang them for hospital rooms are curiously destitute of hooks. But hooks (temporary only, it is feared) were finally provided secretly by his friend the carpenter; and by that time, his confidence somewhat regained, it became so hot another friend the plumber passed the better part of what remained of the day regulating the supposedly automatic heating apparatus before sleep was possible. And then at early dawn suddenly came “zero-hour” of which he had not been warned—a surprise attack when the heavy artillery starts its barrage while the field pieces and caterpillar tractors laden with food for men and guns begin moving up over the pavé to be distributed along the front line and even “over the top,” to end in what sounded like a death-rattle in

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the very wall of his funk hole. This proved, on investigation, to be what ordinarily is known as a dumb waiter bringing the day's ammunition to that particular sector.

But this is being drawn out unduly. One grows accustomed to anything—even air raids and the rumble of artillery at dawn. And there is another side to the picture equally worth learning about which far and away outweighs all these trifles. However long one may have been in this business of passing most of his time in a hospital, whether on duty at the bedside or as a patient in the bed, he ends each day in renewed wonder that so many people, administrators, doctors and nurses, even orderlies and scrubwomen, so willing and eager to be of help, can go on day after day with spirits unflagging offering cheer and encouragement and bringing consolation, comfort and hope as well as intelligent care to the succession of those poor souls out-of-luck to whom the hospital with all its inconveniences and regulations is a veritable haven of refuge. These things, too, are worth learning about and they can never be fully appreciated and understood unless viewed from the other side of the looking glass.

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SURGEONS-IN-CHIEF, *Pro Tempore*. To our growing list of distinguished visitors who have honored the hospital by

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serving as *locum tenens*, for one or the other clinical chief-of-service, we may add the names of two more—Gunnar Nyström, Professor of Surgery at the University of Upsala, Sweden, and Otfried Foerster, Professor of Neurology at the University of Breslau, Germany.

The desire to have a representative of one of the three great Swedish clinics live-in for a time with our junior house-staff was born of a visit which I had the great pleasure to pay in 1929 to Lund and Stockholm and Upsala; and the opportunity was taken of Professor Nyström's presence in the country last May to invite him to the clinic. Anyone who has seen the almost ideal conditions under which the medical faculty at Upsala conduct their work within a superb modern hospital placed in the sylvan surroundings of a charming university town can appreciate how crude and unattractive must seem our institutional life crowded as it is into a small space, beaten in upon from all sides by the increasing clamor of a noisy American city. But we at least can emulate the Upsala spirit of enthusiasm for teaching and research; and the effect of Professor Nyström's visit has already become apparent in the activation of interest in some of those special fields of work such as emergency operations for the removal of vascular emboli to which he has been a notable contributor.

Owing largely to Dr. A. J. McLean's having spent, as the George Gorham Peters travelling fellow, the best part of his year abroad in the neurological clinic in Breslau, it came about that Professor Foerster was invited to pay us a visit; and that he should have chosen to spend nearly three weeks of his all-too-brief stay on our shores in the Brigham Hospital we may take as a great compliment. We once had a Professor of Medicine, the late Charles F. Hoover of Cleveland, who acted as temporary Surgeon-in-Chief to the hospital, and in view of the fact that the clinic is somewhat colored by its neurosurgical interests there was every reason for expecting that a neurologist would bring us much that we could profitably learn. Pro-

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fessor Foerster, however, not only stands in the forefront of German neurologists but he happens to have been a neurologist who from the exigencies of the Great War was obliged to train himself to do his own neurological operations so that his contributions to neurosurgery have been no less notable than have been those to neuropathology and physiology. Apart from the fact that his presence in the clinic was a constant stimulus to every member of the staff, I do not believe that any visitor has ever endeared himself more to our hospital family, nor have we been obliged to make our farewells to anyone with more profound regrets than to him.

CONTACTS ABROAD. All these intimate contacts with members of celebrated European clinics are of inestimable value to our house officers, past, present and future, not only from the friendships formed here, but because any graduate of the hospital is assured of a particularly warm welcome should chance enable him while abroad to visit the institution from which one of our visitors has come. This, together with the increasing number of younger men who have crossed the Atlantic from time to time to serve as voluntary assistants or actually to hold a working appointment on the junior staff, serves constantly to widen our relationships with medical centers in the older countries. So it is that when the turn comes for our own pupils to go abroad they are passed on from Edinburgh to Leeds to London to Brussels to Louvain to Amsterdam to Paris to Berne and so on with the foreknowledge that they will everywhere find a welcome.

Occasionally, as was mentioned in last year's report, those who have formerly been attached to the clinic return again for periods of work. Thus Dr. Paul Martin of Brussels, finding that an increasing practice stood in the way of his doing some experimental work he had in mind, reattached himself to the clinic for the first four months of the year serving meanwhile as Arthur Tracy Cabot Fellow in charge of the Surgical Laboratory at the School. Also Mr. Hugh W. B. Cairns of the

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London Hospital, who had been in Canada for the British Medical Association meeting at Winnipeg, was made temporary Assistant Resident during a part of September, when, as Mr. Dott of Edinburgh had done the year before, he temporarily filled the position as assistant surgeon in charge of the neuro-surgical cases while Dr. Horrax was away on his vacation.

CHANGES IN PERSONNEL. On July 1st, Dr. John H. Powers, our tenth Surgical Resident in sequence, resigned from the position which with conspicuous ability he had filled for a period of nearly two years. As Dr. A. J. McLean, who had been promised this position as of October 1st, had not as yet returned from abroad, Dr. John E. Scarff was appointed as interim Resident, to which post he was highly entitled by training and experience and it is regrettable that we could not have profited by his holding the residency for a longer period. In the autumn Dr. Powers returned to get some special work in urology with Dr. Quinby preparatory to his accepting a position as Associate Surgeon to the Mary Imogene Bassett Hospital at Cooperstown, New York. Meanwhile Dr. Scarff was temporarily appointed to fill Dr. Powers place in Cooperstown and he has since been in New York acting in various capacities at the Postgraduate Hospital. After his return around the world, Dr. McLean entered upon his residential duties on October 1st.

Assistant Residential Positions. During the year, these posts were either taken over or relinquished as follows: Dr. William T. Green, a graduate of the University of Indiana, on the expiration of his house officership served from February to October as Assistant Resident in general surgery and then resigned to enter practice temporarily with his father in Pekin, Indiana. Dr. Frank N. Glenn, who came here to become a surgical interne after a medical house officership at the Strong Memorial Hospital of the University of Rochester on completing his internship here in May succeeded at that time to one of the vacant assistant residential posts. Dr. Richard H. Meagher

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who at the beginning of the year was serving as one of the assistant residents on the neurological service, resigned in April, 1930, to succeed Dr. Paul Martin as Arthur Tracy Cabot Fellow in charge of the laboratory at the School for the remainder of the School year. This latter post he relinquished in October to return to the clinic as first Assistant-resident Surgeon under Dr. McLean.

Dr. Eric Oldberg held the senior assistant residentship in neurology until the end of the summer when as the second George Gorham Peters Fellow, he left for abroad, arrangements having been made for him to work for half the year in Berlin with the Vogts at the Kaiser Wilhelm Institut, and subsequently with Professor Sherrington in Oxford. He was succeeded by Mr. William R. Henderson of Edinburgh who had already been acting as junior on this service, Mr. Henderson's position in turn being filled by Dr. Thomas I. Hoen, a Johns Hopkins graduate who had just completed his surgical house officership here.

Of Dr. Quinby's Assistant Residents during the year Dr. R. C. Buckley, a Yale medical graduate and former house officer of ours, resigned on May 1st to enter practice in Hartford where he has an appointment as Assistant Surgeon in St. Francis' Hospital. He was succeeded by Dr. John C. Eckels, a Harvard medical graduate of 1927 who had had his house officership at the Lankenau Hospital in Philadelphia before coming here and who had served for the first three months of the year as Assistant Resident in general surgery. Dr. Richard P. Middleton has since September, 1930, also held an assistant residentship under Dr. Quinby. He is also a Harvard graduate of 1927 who had his internship at the Pennsylvania Hospital, Philadelphia.

It will appear from the foregoing list that only three (Drs. Powers, Eckels and Middleton) of the eleven men who during 1930 held residential or assistant residential posts in surgery were graduates of our own School. Why this should be so is

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not entirely clear. But whatever the explanation, it indicates a knowledge on the part of young men, many of whom are looking forward to academic posts in surgery, that it is desirable to have contact with more than one institution. It also shows that the hospital is aware that a rotation of crops is good for the soil.

House Officer Positions. Those members of our junior staff whose terms of service expired during 1930 have changed their status as follows: Of the graduates on February 1st, Dr. Walter Boyd took a year's service as house physician at the Boston Lying-In Hospital, and Dr. William T. Green, as already stated, was advanced to an assistant residency; of the graduates on May 1st, Dr. Frank N. Glenn also continued here in an assistant residential position while Dr. Harry N. Cochrane became a Junior Fellow in Surgery at the Presbyterian Hospital in New York; of the graduates on August 1st, Dr. Hoen, as noted above, succeeded to Mr. Henderson's position as Assistant Resident in neurology, and Dr. Richard Farnsworth is in practice in Janesville, Wisconsin.

Of the November 1st graduates, Dr. Richard U. Light was appointed Arthur Tracy Cabot Fellow to succeed Dr. Meagher and Dr. Edward B. Castle has secured a position as Assistant Resident Surgeon at Vanderbilt Medical School in Nashville.

Voluntary Assistants and Fellows. In this capacity the following persons have during the year attached themselves to the clinic. Mr. William R. Henderson of the University of Edinburgh who came in the autumn of 1929 on a Rockefeller Fellowship on the recommendation of the British Research Council has had his fellowship extended for another year and, as already stated, has been serving as an Assistant Resident most of this time. Mr. George Armitage, also holding a Rockefeller Fellowship, terminated his year's sojourn here in November, 1930, and returned to Leeds where he holds a position in the university medical school. Dr. Gaston de Coppet, another

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holder of a Rockefeller fellowship, returned in July, 1930, to Berne, Switzerland, where he continues as junior surgeon in the University clinic of Professor de Quervain. Dr. Daniel Petit-Dutaillis of the Salpêtrière, Paris, served as a voluntary assistant for a period of three months in the Spring of 1930. Dr. Donald R. Bell, a graduate of Cornell Medical School of 1920, who after a long service at the Charity Hospital, Cleveland, had passed the better part of a year at the National Hospital, Queen Square, London, served as voluntary assistant for the last three months of the year. Fresh from the most famous of the neurological hospitals abroad, Dr. Bell made himself a most useful and helpful assistant. In November, 1930, Dr. François Ody of Geneva, Switzerland, another holder of a Rockefeller fellowship, also joined the clinic.

SURGICAL TABULATIONS. The accompanying table shows a definite falling off in the number of patients discharged from the surgical service during 1930, an indication that hospitals

| 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 |
| 1928 | 2577 | 135 | 5.24 | 3737 | 45.0 | 1750 | 67.8 | 1930 | 89 | 4.5 | 4.2 |
| 1929 | 2574 | 136 | 5.28 | 3822 | 45.5 | 1708 | 66.3 | 1874 | 80 | 4.7 | 4.3 |
| 1930 | 2388 | 109 | 4.14 | 3763 | 55.2 | 1714 | 71.7 | 1892 | 71 | 4.1 | 3.2 |

PETER BENT BRIGHAM HOSPITAL

share with other institutions the economic effects of hard times. One section of our small private pavilion, indeed, was temporarily closed. It probably has been the experience of other hospitals to find that patients with minor surgical maladies, in order to save the modest expense of having them repaired, have postponed their hospital sojourn for better days. This, however, has not affected our public wards which as usual have been over filled.

What is more, from the fact that the number of patients operated upon has been larger than it was a year ago it would appear that those who actually entered the hospital have been obliged to do so for lesions that unmistakably needed immediate attention. Consequently there has been no let-up in the work of the operating room, and it is noteworthy that the operative mortality for the first time since 1917 has dropped below 4%. This, I take it, is in large part due to the constant improvement in the technique of our neurosurgical operations to which our comparatively high mortality percentages in the past have been almost wholly attributable. These particular operations for the past year have shown a 7.6% mortality whereas we have formerly regarded a 10% case mortality as about the best we could hope for. One contributory influence to these improved figures has been the apportionment to these patients of a special supervising nurse who gives them her undivided attention. Only in this way can such complications as postoperative clots or respiratory disturbances be picked up quickly and receive the immediate attention they deserve. Even so, during the past year, twenty-six of the seventy-one postoperative fatalities have been due to critical neurosurgical procedures.

Only once before has the total operative mortality fallen below 3%, and this was during 1917 when the neurosurgical service was practically shut down.

HARVEY CUSHING,

DECEMBER 31, 1930.

Surgeon-in-Chief.

Surgical Diagnoses and Operations

JANUARY 1, 1930, TO JANUARY 1, 1931

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|-------------------------|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |

SECTION I

SPECIFIC INFECTIOUS DISEASES, GENERAL DISEASES

(See also SPECIAL ORGANS)

| | | | | |
|--|----|----|----|----|
| Coryza | 3 | .. | .. | .. |
| Dysentery | 2 | .. | .. | .. |
| Gonorrheal complications (varia) | 12 | .. | .. | .. |
| Pneumonia | 25 | 1 | .. | .. |
| Poliomyelitis | 1 | .. | .. | .. |
| Septicaemia <i>Incision-drainage</i> | 7 | .. | 2 | .. |
| Syphilis (varia) | 63 | .. | .. | .. |
| <i>Alcohol injection</i> | .. | .. | 1 | .. |
| <i>Cordotomy</i> | .. | .. | 1 | .. |

SECTION II

DISEASES DUE TO ANIMAL PARA- SITES

| | | | | |
|--------------------------------|---|----|----|----|
| Malaria, tertian | 1 | .. | .. | .. |
| Oxyuria vermicularis | 2 | .. | .. | .. |
| Tinea "Epidermophytosis" | 4 | .. | .. | .. |

SECTION III

DISEASES OF METABOLISM AND DEFICIENCY

| | | | | |
|-------------------------------|----|----|----|----|
| Diabetes insipidus | 1 | .. | .. | .. |
| Diabetes mellitus | 37 | 2 | .. | .. |
| Obesity | 13 | .. | .. | .. |
| Tetany, non-parathyroid | 1 | .. | .. | .. |

SECTION IV

DISEASES PECULIAR TO INFANCY

No cases indexed

PETER BENT BRIGHAM HOSPITAL

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|-------------------------|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |

SECTION V

DISEASES DUE TO PHYSICAL AGENTS

| | | | | |
|--------------------|---|----|----|----|
| Burns, varia | 5 | 1 | .. | .. |
| Scalds | 1 | .. | .. | .. |

SECTION VI

POISONINGS. INTOXICATIONS

| | | | | |
|-------------------------|----|----|----|----|
| Alcoholism | 10 | 1 | .. | .. |
| Poisonings, acute | 3 | .. | .. | .. |

SECTION VII

TUMORS, BENIGN OR MALIGNANT

(See SPECIAL ORGANS)

SECTION VIII

CONGENITAL MALFORMATIONS

| | | | | |
|--|----|----|----|----|
| Anomaly of rib | 1 | .. | .. | .. |
| Branchial cyst <i>Excision</i> | 1 | .. | 1 | .. |
| Craniopharyngeal pouch cyst (cf. Section XIV, PITUITARY GLAND) | | | | |
| Diverticulum, Meckel's <i>Excision</i> | 1 | .. | 1 | .. |
| Ectopic kidney <i>Nephrectomy</i> | 1 | .. | 1 | .. |
| Heart disease | 1 | .. | .. | .. |
| Hermaphroditism | 1 | .. | .. | .. |
| <i>Supravaginal hysterectomy</i> | .. | .. | 1 | .. |
| Horseshoe kidney | 1 | .. | .. | .. |
| Hypospadias <i>Plastic on urethra</i> | 4 | .. | 4 | .. |
| Meningocele <i>Amputation</i> | 1 | .. | 1 | .. |
| Oxycephaly | 1 | .. | .. | .. |
| Pilonidal sinus <i>Excision</i> | 12 | .. | 14 | .. |
| Polycystic kidney | 1 | .. | .. | .. |
| Sacralization of vertebra | 2 | .. | .. | .. |
| Spina bifida occulta | 1 | .. | .. | .. |
| Thyroglossal cyst <i>Excision</i> | 1 | .. | 1 | .. |
| Tight hymen <i>Colpoplasty</i> | 1 | .. | 1 | .. |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|-------------------------|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |

SECTION IX INJURIES

| | | | | |
|--|----|----|----|----|
| Abrasions and contusions | 48 | .. | .. | .. |
| Crush <i>Amputation</i> | 1 | .. | 2 | .. |
| Dislocation of elbow | 2 | .. | .. | .. |
| Dislocation of epiphyses <i>Reduction</i> | 2 | .. | 1 | .. |
| Dislocation of humerus <i>Reduction</i> | 3 | 1 | 1 | 1 |
| Dislocation of semilunar cartilage <i>Excision</i> | 3 | .. | 2 | .. |
| Dislocation of vertebra | 1 | .. | .. | .. |
| Foreign body <i>Removal</i> | 1 | .. | 1 | .. |
| Fractures: | | | | |
| Lower extremity | 50 | 5 | .. | .. |
| Skull | 38 | 2 | .. | .. |
| Trunk: | | | | |
| Clavicle | 5 | .. | .. | .. |
| Pelvis | 5 | 1 | .. | .. |
| Ribs | 7 | 1 | .. | .. |
| Scapula | 4 | .. | .. | .. |
| Spine | 8 | .. | .. | .. |
| Upper extremity | 43 | 1 | .. | .. |
| Hematoma <i>Removal of clot</i> | 14 | .. | 3 | .. |
| Rupture of ligament <i>Repair</i> | 1 | .. | 1 | .. |
| Separation of coronal sutures | 1 | .. | .. | .. |
| Severed artery and vein <i>Ligation</i> | 1 | .. | 1 | .. |
| Severed nerve <i>Suture</i> | 2 | .. | 2 | .. |
| Severed tendon <i>Suture</i> | 4 | .. | 4 | .. |
| Strain | 3 | .. | .. | .. |
| Wound, lacerated and gunshot | 47 | 1 | .. | .. |
| <i>Suture</i> | .. | .. | 1 | .. |
| <i>Tracheotomy</i> | .. | .. | 1 | 1 |

SECTION X DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE

| | | | | |
|---|----|----|----|----|
| Abscess <i>Incision-drainage</i> | 20 | .. | 25 | .. |
| Carbuncle, varia <i>Incision-drainage</i> | 14 | 1 | 12 | 1 |
| Cellulitis, varia | 30 | 1 | .. | .. |
| <i>Amputation</i> | .. | .. | 1 | .. |
| <i>Incision-drainage</i> | .. | .. | 13 | 1 |
| Cicatrix <i>Excision</i> | 2 | .. | 1 | .. |
| Condylomata of anus <i>Fulguration</i> | 1 | .. | 1 | .. |

PETER BENT BRIGHAM HOSPITAL

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Dermatitis | 5 | .. | .. | .. |
| Eczema | 1 | .. | .. | .. |
| Erysipelas | 1 | .. | .. | .. |
| Furunculosis <i>Incision-drainage</i> | 6 | .. | 4 | .. |
| Sarcoid <i>Excision</i> | 1 | .. | 1 | .. |
| Tumors: | | | | |
| Cyst, dermoid <i>Incision—drainage</i> | 1 | .. | 1 | .. |
| Cyst, sebaceous <i>Excision</i> | 4 | .. | 4 | .. |
| Fibroma <i>Excision</i> | 2 | .. | 2 | .. |
| Lipoma <i>Excision</i> | 11 | .. | 10 | .. |
| Neurofibroma <i>Excision</i> | 1 | .. | 1 | .. |
| Nevus pilosis <i>Excision</i> | 1 | .. | 1 | .. |
| Perithelioma | 1 | .. | .. | .. |
| Ulcer | 8 | .. | .. | .. |
| Wound, infected, varia <i>Incision—drainage</i> | 26 | .. | 9 | .. |

SECTION XI

DISEASES OF THE CIRCULATORY SYSTEM

A. ARTERIES

| | | | | |
|---|----|----|----|----|
| Aneurysm | 5 | .. | .. | .. |
| Arteriosclerosis | 39 | 1 | .. | .. |
| Embolism | 2 | .. | .. | .. |
| <i>Amputation</i> | .. | .. | 1 | .. |
| <i>Embolectomy</i> | .. | .. | 1 | .. |
| Gangrene, senile and diabetic <i>Amputation</i> | 9 | 1 | 5 | .. |
| Hypertension | 46 | .. | .. | .. |
| Rupture of gastric artery <i>Ligation</i> | 1 | .. | 1 | .. |
| Thromboangeitis obliterans | 1 | .. | .. | .. |
| <i>Alcohol injection</i> | .. | .. | 3 | .. |
| Thrombosis | 8 | 1 | .. | .. |

B. HEART

| | | | | |
|---|----|----|----|----|
| Angina pectoris | 1 | .. | .. | .. |
| Auricular fibrillation | 17 | .. | .. | .. |
| Enlargement of heart | 1 | .. | .. | .. |
| Heart disease, hypertensive with nephritis | 3 | .. | .. | .. |
| Heart disease, hypertensive without nephritis | 3 | .. | .. | .. |
| Heart disease, rheumatic | 3 | .. | .. | .. |
| Heart disease, thyroid | 1 | .. | .. | .. |
| Myocardial insufficiency | 3 | .. | .. | .. |
| Myocarditis, acute | 1 | .. | .. | .. |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Myocarditis, chronic | 40 | .. | .. | .. |
| Pericarditis with effusion | 2 | .. | .. | .. |
| Valvular disease, chronic cardiac | 28 | .. | .. | .. |
| C. VEINS | | | | |
| Phlebitis migrans | 2 | .. | .. | .. |
| Postphlebitic induration <i>Excision</i> | 1 | .. | 1 | .. |
| Thrombophlebitis <i>Excision</i> | 21 | .. | 5 | .. |
| Thrombosis | 2 | .. | .. | .. |
| Tumors: | | | | |
| Hemangioma <i>Excision</i> | 3 | .. | 4 | .. |
| Varix <i>Excision</i> | 26 | .. | 14 | .. |
| Varix with ulcers <i>Excision—skin graft</i> | 5 | .. | 1 | .. |
| SECTION XII | | | | |
| DISEASES OF THE LYMPHATIC SYSTEM | | | | |
| Lymphadenitis, suppurative | 10 | .. | .. | .. |
| Lymphadenitis, tuberculous <i>Excision</i> .. | 9 | .. | 6 | .. |
| Lymphangitis, acute | 8 | .. | .. | .. |
| Tumors: | | | | |
| Carcinoma | 2 | .. | .. | .. |
| Lymphoepithelioma | 1 | .. | .. | .. |
| Lymphoma malignant <i>Excision</i> | 5 | 1 | 4 | 1 |
| SECTION XIII | | | | |
| DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS | | | | |
| Abscess of spleen | 1 | .. | .. | .. |
| Anemia, pernicious | 1 | .. | .. | .. |
| Anemia, secondary | 33 | .. | .. | .. |
| Hodgkin's disease <i>Excision</i> | 2 | .. | 2 | .. |
| Leukemia, lymphoid | 1 | .. | .. | .. |
| Leukemia, myeloid | 2 | 1 | .. | .. |
| Splenomegaly <i>Splenectomy</i> | 2 | .. | 1 | .. |
| Tuberculosis <i>Biopsy</i> | 1 | .. | 1 | .. |
| SECTION XIV | | | | |
| DISEASES OF THE DUCTLESS GLANDS | | | | |
| Endocrinopathy, pluriglandular | 1 | .. | .. | .. |

PETER BENT BRIGHAM HOSPITAL

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| A. ADRENAL GLAND | | | | |
| Carcinoma <i>Exploration</i> | 1 | 1 | 1 | 1 |
| C. PITUITARY GLAND | | | | |
| Acromegaly <i>Transfrontal operation</i> | 17 | .. | 1 | .. |
| Dyspituitarism with craniopharyngioma (cf. Section XV, A, Tumors) | | | | |
| Dystrophia adiposo genitalis | 1 | .. | .. | .. |
| Hypopituitarism with chromophobe adenoma | 36 | 3 | .. | .. |
| <i>Transfrontal operation</i> | .. | .. | 30 | 3 |
| <i>Transphenoidal operation</i> | .. | .. | 1 | .. |
| Hypopituitarism with tumor: unverified .. | 8 | .. | .. | .. |
| E. THYROID GLAND | | | | |
| Goitre, diffuse colloid | 2 | .. | .. | .. |
| <i>Subtotal thyroidectomy</i> | .. | .. | 1 | .. |
| Goitre, exophthalmic | 22 | .. | .. | .. |
| <i>Subtotal thyroidectomy</i> | .. | .. | 20 | .. |
| Myxedema | 4 | .. | .. | .. |
| Tumors: | | | | |
| Adenoma <i>Partial thyroidectomy</i> | 15 | .. | 13 | .. |
| SECTION XV | | | | |
| DISEASES OF THE NERVOUS SYSTEM | | | | |
| A. BRAIN | | | | |
| Abscess <i>Drainage</i> | 3 | 2 | 3 | 2 |
| Arteriosclerosis, cerebral | 9 | .. | .. | .. |
| Concussion | 15 | .. | .. | .. |
| Edema, cerebral | 1 | .. | .. | .. |
| Embolism, cerebral | 3 | .. | .. | .. |
| Encephalitis | 6 | .. | .. | .. |
| Epilepsy | 20 | .. | .. | .. |
| Hemiplegia | 2 | .. | .. | .. |
| Hemorrhage, intracranial <i>Ventriculogram</i> | 5 | .. | 1 | .. |
| Hernia of brain | 1 | .. | .. | .. |
| Hydrocephalus | 5 | .. | .. | .. |
| Little's disease (Birth palsy) | 1 | .. | .. | .. |
| Ophthalmoplegia | 1 | .. | .. | .. |
| Tumors: intracranial: | | | | |
| (1) Pituitary adenoma (cf. Section XIV, | | | | |
| C, DUCTLESS GLANDS) | | | | |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| (2) Cerebral tumors, verified: | | | | |
| Carcinoma, metastatic | 2 | .. | .. | .. |
| <i>Extirpation, total</i> | .. | .. | 1 | .. |
| Cholesteatoma <i>Extirpation, total</i> | 1 | 1 | 1 | 1 |
| Craniopharyngioma | 4 | 2 | .. | .. |
| <i>Extirpation, partial</i> | .. | .. | 4 | 1 |
| Cyst, porencephalic | 1 | .. | .. | .. |
| <i>Extirpation, partial</i> | .. | .. | 1 | .. |
| Glioma (varia) | 61 | 13 | .. | .. |
| <i>Exploration</i> | .. | .. | 4 | 1 |
| <i>Extirpation, partial or total</i> | .. | .. | 52 | 7 |
| <i>Ventriculograms</i> | .. | .. | 33 | 1 |
| Lymphoma, metastatic | 1 | 1 | .. | .. |
| <i>Exploration</i> | .. | .. | 1 | 1 |
| Meningioma | 32 | 3 | .. | .. |
| <i>Extirpation, partial or total</i> | .. | .. | 29 | 3 |
| Mucocele | 1 | .. | .. | .. |
| Sarcoma | 1 | .. | .. | .. |
| Tumor: unclassified | 1 | 1 | .. | .. |
| (3) Cerebellar tumors, verified: | | | | |
| (a) Intracerebellar tumors: | | | | |
| Glioma | 18 | 2 | .. | .. |
| <i>Exploration</i> | .. | .. | 1 | .. |
| <i>Extirpation, partial or total</i> | .. | .. | 16 | 2 |
| Hemangioblastoma | 4 | 1 | .. | .. |
| <i>Extirpation, partial or total</i> | .. | .. | 3 | 1 |
| Tuberculoma <i>Exploration</i> | 1 | .. | 1 | .. |
| Xanthoma | 1 | .. | .. | .. |
| (b) Extracerebellar tumors: | | | | |
| Acoustic neurinoma | 12 | .. | .. | .. |
| <i>Extirpation, partial or total</i> | .. | .. | 11 | .. |
| <i>Ventriculogram</i> | .. | .. | 1 | .. |
| (4) Unverified tumors: | | | | |
| (a) Cerebral | 42 | 1 | .. | .. |
| <i>Exploration</i> | .. | .. | 20 | 1 |
| <i>Ventriculograms</i> | .. | .. | 26 | .. |
| (b) Cerebellar | 9 | .. | .. | .. |
| <i>Exploration</i> | .. | .. | 6 | .. |
| <i>Ventriculogram</i> | .. | .. | 3 | .. |
| (5) Tumor suspects: | | | | |
| (a) Cerebral | 84 | .. | .. | .. |
| <i>Exploration</i> | .. | .. | 12 | .. |
| <i>Ventriculogram</i> | .. | .. | 26 | .. |

PETER BENT BRIGHAM HOSPITAL

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| (b) Cerebellar | 12 | .. | .. | .. |
| <i>Exploration</i> | .. | .. | 3 | .. |
| <i>Ventriculogram</i> | .. | .. | 2 | .. |
| B. MENINGES | | | | |
| Arachnoiditis, chronic | 14 | .. | .. | .. |
| Meningitis (unqualified) | 2 | .. | .. | .. |
| Meningitis, encephalo- | 1 | .. | .. | .. |
| C. MENTAL AFFECTIONS | | | | |
| Dementia praecox | 3 | .. | .. | .. |
| Dementia, senile | 6 | .. | .. | .. |
| Insanity, manic-depressive | 5 | .. | .. | .. |
| Neurosis, traumatic | 1 | .. | .. | .. |
| Psychoneuroses | 41 | .. | .. | .. |
| D. MISCELLANEOUS | | | | |
| Cephalalgia | 1 | .. | .. | .. |
| Chorea | 2 | .. | .. | .. |
| Convulsions | 3 | .. | .. | .. |
| Migraine | 3 | .. | .. | .. |
| Paralysis agitans (post. encephalitic) | 1 | .. | .. | .. |
| E. PERIPHERAL AND CRANIAL NERVES | | | | |
| Neuralgia | 3 | .. | .. | .. |
| <i>Avulsion nerve</i> | .. | .. | 1 | .. |
| <i>Supraorbital neurectomy</i> | .. | .. | 2 | .. |
| Neuralgia, trigeminal, major | 29 | .. | .. | .. |
| <i>Alcohol injection</i> | .. | .. | 16 | .. |
| <i>Avulsion of sensory root</i> | .. | .. | 13 | .. |
| Neuralgia, trigeminal, minor | 5 | .. | .. | .. |
| <i>Alcohol injection</i> | .. | .. | 4 | .. |
| Neuritis, multiple | 1 | .. | .. | .. |
| Paralysis of peripheral and cranial nerves | 11 | .. | .. | .. |
| <i>Suture</i> | .. | .. | 3 | .. |
| Torticollis, spasmodic | 1 | .. | .. | .. |
| <i>Division of muscles</i> | .. | .. | 2 | .. |
| Tumor: | | | | |
| Neurofibromatosis | 1 | .. | .. | .. |
| F. SPINAL CORD | | | | |
| Herpes zoster | 1 | .. | .. | .. |
| Poliomyelitis (Landry's type) | 1 | .. | .. | .. |
| Sclerosis, multiple | 8 | .. | .. | .. |
| Tumors: | | | | |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| (1) Verified: | | | | |
| Glioma <i>Extirpation, partial</i> | 2 | 1 | 1 | 1 |
| Hemangioma <i>Laminectomy</i> | 1 | 1 | 1 | 1 |
| Meningioma | 1 | .. | .. | .. |
| Neurofibroma <i>Laminectomy</i> | 1 | .. | 1 | .. |
| (2) Suspect <i>Laminectomy</i> | 4 | .. | 2 | .. |

G. SYMPATHETIC NERVOUS SYSTEM

| | | | | |
|--|---|----|----|----|
| Dysfunction <i>Sympathectomy</i> | 1 | .. | 1 | .. |
| Raynaud's disease | 3 | .. | .. | .. |
| Scleroderma <i>Sympathectomy</i> | 2 | .. | 1 | .. |

SECTION XVI

DISEASES OF THE BONES, JOINTS, MUSCLES, TENDONS AND FASCIA

A. DISEASES OF THE BONES AND CARTILAGES

| | | | | |
|---|----|----|----|----|
| Exostosis <i>Excision</i> | 3 | .. | 3 | .. |
| Hyperostosis | 1 | .. | .. | .. |
| Osteitis deformans | 2 | .. | .. | .. |
| Osteomyelitis (varia) <i>Operations (varia)</i> | 25 | .. | 20 | .. |
| Periostitis, non-traumatic <i>Excision</i> | 5 | .. | 2 | .. |
| Periostitis, traumatic | 1 | .. | .. | .. |
| Scoliosis | 1 | .. | .. | .. |
| Tuberculosis of bone <i>Laminectomy</i> | 4 | .. | 1 | .. |
| Tumors: | | | | |
| Carcinoma of spine, metastatic | 1 | .. | .. | .. |
| Carcinomatosis, general | 1 | .. | .. | .. |
| Cyst of femur <i>Curettage</i> | 1 | .. | 1 | .. |
| Endothelioma of clavicle | 1 | .. | .. | .. |
| Fibrosarcoma of chest wall <i>Resection</i> | 1 | .. | 1 | .. |
| Myeloma of humerus <i>Excision</i> | 1 | .. | 1 | .. |
| Osteoma <i>Excision</i> | 3 | .. | 3 | .. |
| Sarcoma of ilium | 1 | .. | .. | .. |
| <i>Laminectomy (cordotomy)</i> | .. | .. | 1 | .. |
| Sarcoma of tibia | 1 | .. | .. | .. |
| Sarcoma, osteogenic <i>Amputation</i> | 1 | .. | 1 | .. |
| Tumor: unclassified of vertebra | 1 | .. | .. | .. |

PETER BENT BRIGHAM HOSPITAL

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| B. DISEASES OF THE JOINTS | | | | |
| Ankylosis | 2 | .. | .. | .. |
| Arthritis, acute <i>Incision—drainage</i> | 6 | .. | 1 | .. |
| Arthritis, chronic | 29 | .. | .. | .. |
| Arthritis deformans | 4 | .. | .. | .. |
| Arthropathy, Charcot's | 1 | .. | .. | .. |
| Lipoma arborescens <i>Excision</i> | 1 | .. | 1 | .. |
| Postural deformity | 3 | .. | .. | .. |
| Pyarthrosis | 1 | 1 | .. | .. |
| Relaxed sacro-iliac | 2 | .. | .. | .. |
| Synovitis | 3 | .. | .. | .. |
| Tuberculosis of joint <i>Arthrodesis</i> | 4 | .. | 1 | .. |
| Tumor: | | | | |
| Sarcoma of knee joint <i>Amputation</i> ... | 1 | .. | 1 | .. |
| C. OTHER DISEASES | | | | |
| Bursitis <i>Excision</i> | 15 | .. | 7 | .. |
| Contracture of fingers <i>Resection</i> | 1 | .. | 1 | .. |
| Contraction, cicatricial <i>Skin graft</i> | 3 | .. | 6 | .. |
| Contraction, Dupuytren's <i>Excision</i> | 1 | .. | 1 | .. |
| Ganglion of wrist <i>Excision</i> | 2 | .. | 2 | .. |
| Strain of muscles | 3 | .. | .. | .. |
| Tenosynovitis <i>Amputation</i> | 3 | .. | 2 | .. |
| SECTION XVII | | | | |
| DISEASES AND INJURIES OF THE EYE AND EAR | | | | |
| DISEASES OF THE EYE | | | | |
| Miscellaneous | 14 | .. | .. | .. |
| Tumor: | | | | |
| Sarcoma <i>Enucleation eye</i> | 1 | .. | 1 | .. |
| DISEASES OF THE EAR | | | | |
| Miscellaneous | 6 | .. | .. | .. |
| Otitis media | 2 | .. | .. | .. |
| SECTION XVIII | | | | |
| DISEASES OF THE NOSE AND ACCESSORY SINUSES | | | | |
| Deviation of nasal septum | 1 | .. | .. | .. |
| <i>Nasal septum resection</i> | .. | .. | 1 | .. |
| Ethmoiditis <i>Drainage</i> | 1 | .. | 1 | .. |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Hypertrophy of inferior turbinate | 1 | .. | .. | .. |
| <i>Turbinectomy</i> | .. | .. | 1 | .. |
| Rhinitis, acute | 1 | .. | .. | .. |
| Sinusitis <i>Drainage</i> | 12 | .. | 9 | .. |
| Tumors: | | | | |
| Polyp | 1 | .. | .. | .. |

SECTION XIX

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

| | | | | |
|--|-----|----|-----|----|
| Abscess, varia <i>Incision—drainage</i> | 3 | .. | 1 | .. |
| Adenoids, hypertrophied <i>Adenoidectomy</i> | 2 | .. | 2 | .. |
| Angina Ludovici <i>Incision—drainage</i> | 1 | .. | 1 | .. |
| Elongation of uvula <i>Uvulectomy</i> | 1 | .. | 1 | .. |
| Granulocytopenia | 1 | .. | .. | .. |
| Parotitis, postoperative | 1 | .. | .. | .. |
| Pharyngitis, acute and chronic | 5 | .. | .. | .. |
| Tonsillitis, acute and chronic | 120 | .. | .. | .. |
| <i>Tonsillectomy</i> | .. | .. | 105 | .. |
| Tuberculosis of tonsil <i>Tonsillectomy</i> ... | 1 | .. | 1 | .. |
| Tumors: | | | | |
| Carcinoma of cheek <i>Excision</i> | 1 | .. | 1 | .. |
| Carcinoma of lip <i>Excision</i> | 2 | .. | 2 | .. |
| Carcinoma of parotid gland <i>Excision</i> | 1 | .. | 1 | .. |
| Epithelioma of lip <i>Excision</i> | 1 | .. | 1 | .. |
| Lymphoepithelioma of naso-pharynx | 1 | .. | .. | .. |
| <i>Excision</i> | .. | .. | 1 | .. |
| Mixed non-malignant tumor of parotid gland <i>Excision</i> | 1 | .. | 1 | .. |
| Ulcer of pharynx | 1 | .. | .. | .. |
| Vincent's angina <i>Incision—drainage</i> | 2 | .. | 1 | .. |

SECTION XX

DISEASES OF THE JAW, TEETH, AND GUMS

| | | | | |
|--|----|----|----|----|
| Abscess, alveolar | 13 | .. | .. | .. |
| <i>Incision—drainage</i> | .. | .. | 4 | .. |
| <i>Teeth extraction</i> | .. | .. | 2 | .. |
| Caries of teeth <i>Teeth extraction</i> | 10 | .. | 6 | .. |
| Impacted tooth <i>Tooth extraction</i> | 5 | .. | 5 | .. |
| Pyorrhea alveolaris <i>Teeth extraction</i> .. | 7 | .. | 6 | .. |

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| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Trismus | 1 | .. | .. | .. |
| Tumors: | | | | |
| Cyst of jaw <i>Excision</i> | 1 | .. | 1 | .. |
| Epulis <i>Excision</i> | 2 | .. | 2 | .. |
| Fibrosarcoma of mandible <i>Excision</i> .. | 1 | .. | 1 | .. |
| SECTION XXI | | | | |
| DISEASES OF THE TONGUE | | | | |
| Glossitis, acute | 1 | .. | .. | .. |
| Tumor: | | | | |
| Carcinoma <i>Excision</i> | 1 | .. | 1 | .. |
| SECTION XXII | | | | |
| DISEASES OF THE ESOPHAGUS | | | | |
| Cardiospasm <i>Dilatation of cardia</i> | 2 | .. | 2 | .. |
| Diverticulum | 1 | .. | .. | .. |
| Stricture <i>Dilatation</i> | 1 | .. | 4 | .. |
| Tumor: | | | | |
| Carcinoma <i>Gastrostomy</i> | 3 | .. | 3 | .. |
| Ulcer <i>Esophagoscopy</i> | 1 | .. | 1 | .. |
| Varix | 1 | .. | .. | .. |
| SECTION XXIII | | | | |
| DISEASES OF THE STOMACH | | | | |
| Motor and secretory disturbances | 7 | .. | .. | .. |
| <i>Gastrotomy</i> | .. | .. | 2 | .. |
| Tumor: | | | | |
| Carcinoma <i>Gastro-enterostomy</i> | 16 | 2 | 9 | .. |
| Ulcer, gastric | 10 | 2 | .. | .. |
| <i>Gastro-enterostomy</i> | .. | .. | 3 | .. |
| <i>Gastrostomy</i> | .. | .. | 1 | 1 |
| <i>Suture and plication</i> | .. | .. | 3 | 1 |
| SECTION XXIV | | | | |
| DISEASES OF THE INTESTINES | | | | |
| Adhesions, intestinal <i>Lysis</i> | 5 | .. | 3 | .. |
| Appendicitis, acute and chronic | 133 | 4 | .. | .. |
| <i>Appendicectomy</i> | .. | .. | 97 | 1 |
| <i>Appendicectomy with drainage for abscess or peritonitis</i> | .. | .. | 22 | 3 |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Cecum mobile | 1 | .. | .. | .. |
| Colic, appendiceal <i>Appendicectomy</i> | 27 | .. | 23 | .. |
| Colitis, acute | 2 | .. | .. | .. |
| Colitis, mucous | 1 | .. | .. | .. |
| Colitis, ulcerative | 1 | .. | .. | .. |
| <i>Ileostomy</i> | .. | .. | 1 | .. |
| <i>Repair of ileostomy</i> | .. | .. | 2 | .. |
| Constipation | 16 | .. | .. | .. |
| Diverticulitis , <i>Transverse colostomy</i> | 11 | 2 | 5 | 2 |
| Diverticulosis | 6 | .. | .. | .. |
| Fistula, fecal <i>Closure</i> | 3 | .. | 1 | .. |
| Gangrene <i>Resection</i> | 1 | .. | 1 | .. |
| Gastro-enteritis | 4 | .. | .. | .. |
| Hemorrhage, intestinal | 1 | .. | .. | .. |
| Impacted feces | 1 | .. | .. | .. |
| Inflammation of cecum <i>Resection</i> | 1 | 1 | 1 | 1 |
| Obstruction, intestinal | 8 | .. | .. | .. |
| <i>Enterostomy</i> | .. | .. | 4 | .. |
| <i>Lysis of adhesions</i> | .. | .. | 2 | .. |
| Paralytic ileus | 3 | .. | .. | .. |
| Stricture of intestine <i>Resection</i> | 3 | .. | 2 | .. |
| Tuberculosis | 3 | .. | .. | .. |
| <i>Appendicectomy</i> | .. | .. | 1 | .. |
| <i>Excision</i> | .. | .. | 1 | .. |
| Tumors: | | | | |
| Carcinoid of appendix <i>Appendicectomy</i> | 1 | .. | 1 | .. |
| Carcinoma of cecum | 1 | 1 | .. | .. |
| Carcinoma of colon <i>Resection</i> | 4 | .. | 4 | .. |
| Carcinoma of ileum <i>Resection</i> | 1 | .. | 1 | .. |
| Carcinoma of sigmoid | 5 | .. | .. | .. |
| <i>Excision</i> | .. | .. | 2 | .. |
| <i>Sigmoidostomy</i> | .. | .. | 3 | .. |
| Cyst of mesentery <i>Excision</i> | 2 | .. | 2 | .. |
| Mucocoele of appendix <i>Appendicectomy</i> | 1 | .. | 1 | .. |
| Ulcer, duodenal | 30 | 2 | .. | .. |
| <i>Closure of perforation and gastro-</i> <i>enterostomy</i> | .. | .. | 2 | .. |
| <i>Gastro-enterostomy</i> | .. | .. | 7 | .. |
| <i>Transection of pylorus and gastro-</i> <i>jejunostomy</i> | .. | .. | 3 | .. |
| Ulcer, jejunal <i>Suture and plication</i> | 1 | 1 | 1 | 1 |
| Visceroptosis | 3 | .. | .. | .. |
| Volvulus | 1 | .. | .. | .. |

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| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|-------------------------|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |

SECTION XXV DISEASES OF THE LIVER AND BILIARY TRACT

| | | | | |
|--|----|----|----|----|
| Adhesions about gall bladder | 1 | .. | .. | .. |
| Cholecystitis, acute and chronic | 23 | 2 | .. | .. |
| <i>Cholecystectomy</i> | .. | .. | 7 | 2 |
| Cholelithiasis with cholecystitis, acute and chronic | 71 | 3 | .. | .. |
| <i>Cholecystectomy</i> | .. | .. | 46 | 2 |
| <i>Cholecystectomy-choledochostomy</i> .. | .. | .. | 11 | .. |
| <i>Choledochostomy</i> | .. | .. | 3 | 1 |
| Cirrhosis of liver <i>Cholecystostomy</i> | 3 | .. | 1 | .. |
| Fistula, biliary | 2 | .. | .. | .. |
| Hepatitis <i>Biopsy</i> | 3 | 1 | 2 | 1 |
| Perforation of gall bladder | 1 | .. | .. | .. |
| Tuberculosis of liver <i>Biopsy</i> | 1 | .. | 1 | .. |
| Tumors: | | | | |
| Carcinoma of bile duct | 2 | .. | .. | .. |
| Carcinoma of gall bladder | 1 | .. | .. | .. |
| Carcinoma of liver | 1 | .. | .. | .. |
| Cyst of liver | 1 | .. | .. | .. |
| Embryoma of liver | 1 | .. | .. | .. |

SECTION XXVI DISEASES OF THE PANCREAS

| | | | | |
|--|---|----|----|----|
| Pancreatitis, acute | 1 | .. | .. | .. |
| Tumor: | | | | |
| Adenoma <i>Resection</i> | 1 | .. | 1 | .. |
| Carcinoma <i>Cholecystogastrostomy</i> ... | 5 | 1 | 2 | 1 |

SECTION XXVII DISEASES OF THE ABDOMEN, AB- DOMINAL WALL AND PERITO- NEUM IN GENERAL

| | | | | |
|--|---|----|----|----|
| Abdominal pain | 2 | .. | .. | .. |
| Abscess of abdominal cavity <i>Drainage</i> .. | 3 | .. | 4 | .. |
| Abscess, subphrenic <i>Drainage</i> | 2 | .. | 1 | .. |
| Adhesions, pelvic <i>Lysis</i> | 2 | .. | 1 | .. |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Ascites | 1 | .. | .. | .. |
| Diastasis of recti <i>Plication</i> | 1 | .. | 1 | .. |
| Hemoperitoneum | 2 | .. | .. | .. |
| Hernia, epigastric <i>Repair</i> | 2 | .. | 2 | .. |
| Hernia, femoral <i>Repair</i> | 6 | .. | 3 | .. |
| Hernia, femoral, strangulated <i>Repair</i> .. | 2 | .. | 2 | .. |
| Hernia, inguinal <i>Repair</i> | 114 | .. | 101 | .. |
| Hernia, lumbar <i>Repair</i> | 2 | .. | 2 | .. |
| Hernia, umbilical <i>Repair</i> | 6 | .. | 3 | .. |
| Hernia, ventral <i>Repair</i> | 19 | 1 | 11 | 1 |
| Peritonitis, acute <i>Drainage</i> | 11 | 2 | 5 | 1 |
| Relaxed inguinal canal | 1 | .. | .. | .. |
| Tuberculosis of peritoneum | 2 | .. | .. | .. |
| Tumors: | | | | |
| Carcinomatosis, abdominal | 2 | 1 | .. | .. |
| Cyst, retroperitoneal <i>Excision</i> | 1 | .. | 1 | .. |
| Lymphosarcoma, retroperitoneal | 1 | .. | .. | .. |

SECTION XXVIII

DISEASES OF THE RECTUM AND ANUS

| | | | | |
|---|----|----|----|----|
| Abscess, perirectal <i>Incision—drainage</i> .. | 11 | .. | 10 | .. |
| Anal fissure <i>Dilatation or excision</i> | 14 | .. | 7 | .. |
| Fistula in ano <i>Excision</i> | 19 | .. | 15 | .. |
| Hemorrhoids, external and internal | 63 | .. | .. | .. |
| <i>Hemorrhoidectomy</i> | .. | .. | 58 | .. |
| Prolapse of rectum <i>Excision</i> | 1 | .. | 1 | .. |
| Spasm of rectum <i>Dilatation</i> | 2 | .. | 2 | .. |
| Stricture of anus | 1 | 1 | .. | .. |
| Tumors: | | | | |
| Carcinoma of rectum | 11 | 4 | .. | .. |
| <i>Excision and sigmoidostomy</i> | .. | .. | 9 | 4 |
| Polyp of rectum <i>Excision</i> | 2 | .. | 1 | .. |

SECTION XXIX

DISEASES OF THE LARYNX

| | | | | |
|------------------------------------|---|----|----|----|
| Paralysis of recurrent nerve | 1 | .. | .. | .. |
| Tumors: | | | | |
| Carcinoma <i>Gastrostomy</i> | 1 | .. | 1 | .. |

PETER BENT BRIGHAM HOSPITAL

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|-------------------------|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |

SECTION XXX

DISEASES OF THE TRACHEA AND BRONCHI

| | | | | |
|---|----|----|----|----|
| Asthma | 5 | .. | .. | .. |
| Bronchiectasis <i>Avulsion phrenic nerve</i> .. | 3 | .. | 1 | .. |
| Bronchitis, acute and chronic | 10 | .. | .. | .. |
| Fistula, bronchial | 2 | .. | .. | .. |
| Foreign body in bronchus <i>Removal</i> | 1 | .. | 1 | .. |

SECTION XXXI

DISEASES OF THE LUNGS

| | | | | |
|--|----|----|----|----|
| Abscess | 9 | 5 | .. | .. |
| <i>Bronchoscopy</i> | .. | .. | 1 | 1 |
| <i>Pneumectomy</i> | .. | .. | 4 | 3 |
| Atelectasis (postoperative) | 11 | .. | .. | .. |
| Bronchopneumonia (postoperative) | 22 | .. | .. | .. |
| Embolism, pulmonary | 7 | .. | .. | .. |
| Emphysema of lungs | 2 | .. | .. | .. |
| Infarct of lung | 7 | .. | .. | .. |
| Tuberculosis, pulmonary | 17 | .. | .. | .. |
| <i>Avulsion phrenic nerve</i> | .. | .. | 1 | .. |

SECTION XXXII

DISEASES OF THE PLEURA AND MEDIASTINUM

| | | | | |
|-----------------------------------|----|----|----|----|
| Empyema <i>Thoracostomy</i> | 18 | 3 | 16 | 3 |
| Pleurisy, sero-fibrinous | 4 | .. | .. | .. |
| Pyopneumothorax | 1 | .. | .. | .. |
| Thickened pleura | 1 | .. | .. | .. |

SECTION XXXIII

DISEASES OF THE KIDNEY AND URETER

| | | | | |
|---|----|----|----|----|
| Abscess, perinephric <i>Incision—drainage</i> | 1 | .. | 1 | .. |
| Calculus, ureteral <i>Ureterotomy</i> | 35 | 1 | 9 | .. |
| Colic, ureteral | 1 | .. | .. | .. |
| Hydronephrosis <i>Nephrectomy</i> | 6 | .. | 3 | .. |
| Nephralgia <i>Nephropexy</i> | 1 | .. | 1 | .. |
| Nephritis, acute and chronic | 7 | .. | .. | .. |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Nephrolithiasis | 24 | .. | .. | .. |
| <i>Nephrectomy</i> | .. | .. | 4 | .. |
| <i>Nephrotomy, pyelotomy, or both</i> .. | .. | .. | 14 | .. |
| Nephroptosis <i>Nephropexy</i> | 3 | .. | 2 | .. |
| Pyelitis | 22 | .. | .. | .. |
| <i>Nephrectomy</i> | .. | .. | 1 | .. |
| <i>Pyelotomy</i> | .. | .. | 1 | .. |
| Pyelonephritis <i>Nephropexy</i> | 4 | .. | 1 | .. |
| <i>Pyelotomy</i> | .. | .. | 1 | .. |
| Pyonephrosis <i>Nephrectomy</i> | 7 | .. | 6 | .. |
| Tuberculosis of kidney <i>Nephrectomy</i> ... | 10 | 1 | 7 | 1 |
| Tumors: | | | | |
| Carcinoma of kidney <i>Nephrectomy</i> .. | 1 | 1 | 1 | 1 |
| Hypernephroma <i>Nephrectomy</i> | 3 | .. | 3 | .. |
| Leiomyoliposarcoma <i>Nephrectomy</i> ... | 1 | .. | 1 | .. |

SECTION XXXIV

DISEASES OF THE BLADDER

| | | | | |
|--|----|----|----|----|
| Abscess, prevesical <i>Incision—drainage</i> . | 1 | .. | 1 | .. |
| Calculus, vesical <i>Removal</i> | 6 | .. | 6 | .. |
| Cystitis <i>Cystotomy</i> | 27 | .. | 1 | .. |
| Diverticulum of bladder <i>Excision</i> | 2 | .. | 2 | .. |
| Incontinence of urine <i>Plication</i> | 1 | .. | 1 | .. |
| Trigonitis <i>Dilatation</i> | 2 | .. | 1 | .. |
| Tuberculosis | 2 | .. | .. | .. |
| Tumors: | | | | |
| Carcinoma | 11 | 1 | .. | .. |
| <i>Cystotomy</i> | .. | .. | 3 | .. |
| <i>Excision</i> | .. | .. | 5 | .. |
| Leiomyoma <i>Excision</i> | 1 | .. | 1 | .. |
| Papilloma <i>Excision</i> | 4 | .. | 1 | .. |
| Ulcer | 1 | .. | .. | .. |

SECTION XXXV

DISEASES OF THE URETHRA, MALE AND FEMALE

| | | | | |
|---|---|----|----|----|
| Caruncle of urethra <i>Excision</i> | 3 | .. | 2 | .. |
| Fistula, urethral | 1 | .. | .. | .. |
| Prolapse of urethra <i>Dilatation</i> | 3 | .. | 1 | .. |
| Stricture <i>Urethrotomy</i> | 9 | .. | 5 | .. |

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| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| SECTION XXXVI | | | | |
| DISEASES OF THE MALE GENERATIVE ORGANS | | | | |
| B. PENIS | | | | |
| Phimosis <i>Circumcision</i> | 5 | .. | 4 | .. |
| C. PROSTATE | | | | |
| Abscess <i>Incision—drainage</i> | 3 | .. | 2 | .. |
| Prostate, obstructing | 49 | 2 | .. | .. |
| <i>Cystostomy, suprapubic</i> | .. | .. | 1 | .. |
| <i>Prostatectomy, perineal or supra-</i> <i>pubic</i> | .. | .. | 35 | 2 |
| <i>Prostatectomy, punch</i> | .. | .. | 6 | .. |
| Prostatitis <i>Prostatotomy</i> | 3 | .. | 1 | .. |
| Tumors: | | | | |
| Carcinoma | 21 | 2 | .. | .. |
| <i>Cystotomy, suprapubic</i> | .. | .. | 3 | 1 |
| <i>Implantation of radium</i> | .. | .. | 2 | .. |
| <i>Prostatectomy, perineal or supra-</i> <i>pubic</i> | .. | .. | 10 | .. |
| <i>Prostatectomy, punch</i> | .. | .. | 5 | 1 |
| D. SCROTUM | | | | |
| Hydrocele <i>Excision</i> | 16 | .. | 15 | .. |
| Varicocele <i>Excision</i> | 4 | .. | 3 | .. |
| E. SEMINAL VESICLES | | | | |
| Vesiculitis <i>Vesiculectomy</i> | 1 | .. | 1 | .. |
| F. TESTICLE * | | | | |
| Atrophy | 1 | .. | .. | .. |
| Epididymitis | 7 | .. | .. | .. |
| <i>Incision—drainage</i> | .. | .. | 1 | .. |
| <i>Orchidectomy</i> | .. | .. | 1 | .. |
| Undescended testicle | 8 | .. | .. | .. |
| <i>Orchidectomy</i> | .. | .. | 3 | .. |
| <i>Orchidopexy</i> | .. | .. | 2 | .. |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|---|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| SECTION XXXVII | | | | |
| DISEASES OF THE FEMALE GEN- ERATIVE ORGANS | | | | |
| A. GENERAL AND FUNCTIONAL | | | | |
| Abscess, pelvic <i>Drainage</i> | 8 | .. | 4 | .. |
| Amenorrhea | 1 | .. | .. | .. |
| Dysmenorrhea <i>Dilatation—curettage</i> ... | 2 | .. | 1 | .. |
| Hydrocele of canal of Nuck <i>Excision</i> .. | 1 | .. | 1 | .. |
| Menorrhagia <i>Dilatation—curettage</i> | 14 | .. | 7 | .. |
| Relaxed pelvic floor | 41 | .. | .. | .. |
| <i>Local repair</i> | .. | .. | 6 | .. |
| <i>Local repair with suspension of</i> <i>uterus</i> | .. | .. | 24 | .. |
| Sterility <i>Dilatation—curettage</i> | 3 | .. | 3 | .. |
| F. FALLOPIAN TUBES | | | | |
| Hydrosalpinx <i>Salpingectomy</i> | 2 | .. | 2 | .. |
| Salpingitis, acute and chronic | 50 | .. | .. | .. |
| <i>Salpingectomy</i> | .. | .. | 28 | .. |
| Tuberculosis <i>Drainage abscess</i> | 1 | .. | 1 | .. |
| C. OVARY | | | | |
| Abscess | 2 | .. | .. | .. |
| Oophoritis, chronic <i>Oophorectomy</i> | 3 | .. | 1 | .. |
| Tumors: | | | | |
| Adenocarcinoma <i>Oophorectomy</i> | 3 | .. | 2 | .. |
| Adenomyoma | 1 | .. | .. | .. |
| Cyst of ovary (varia) <i>Excision</i> | 34 | .. | 27 | .. |
| Fibroid <i>Excision</i> | 1 | .. | 1 | .. |
| Teratoma <i>Excision</i> | 1 | .. | 1 | .. |
| D. UTERUS | | | | |
| Anteflexion of uterus | 6 | .. | .. | .. |
| <i>Dilatation—curettage</i> | .. | .. | 5 | .. |
| Endocervicitis, chronic | 53 | .. | .. | .. |
| <i>Curettage or excision</i> | .. | .. | 39 | .. |
| Endometritis (varia) | 25 | .. | .. | .. |
| <i>Dilatation—curettage</i> | .. | .. | 19 | .. |
| <i>Hysterectomy, supravaginal</i> | .. | .. | 1 | .. |
| Erosion of cervix <i>Cauterization</i> | 1 | .. | 1 | .. |
| Hypertrophy of uterus | 1 | .. | .. | .. |
| <i>Hysterectomy, supravaginal</i> | .. | .. | 1 | .. |

PETER BENT BRIGHAM HOSPITAL

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Laceration of cervix-uteri | 46 | .. | .. | .. |
| <i>Trachelorrhaphy</i> | .. | .. | 30 | .. |
| Metrorrhagia | 11 | 1 | .. | .. |
| <i>Dilatation—curettage with implan-</i> <i>tation of radium or supravaginal</i> <i>hysterectomy</i> | .. | .. | 9 | 1 |
| Procidentia | 1 | .. | .. | .. |
| Retroversion of uterus <i>Suspension</i> | 42 | 1 | 29 | 1 |
| Tumors: | | | | |
| Adenocarcinoma of uterus | 9 | .. | .. | .. |
| <i>Dilatation—curettage</i> | .. | .. | 3 | .. |
| <i>Hysterectomy</i> | .. | .. | 6 | .. |
| Carcinoma of cervix-uteri | 2 | .. | .. | .. |
| <i>Dilatation—curettage</i> | .. | .. | 2 | .. |
| Carcinoma of uterus, <i>hysterectomy</i> | 3 | .. | 2 | .. |
| Fibromyoma of uterus | 53 | .. | .. | .. |
| <i>Dilatation—curettage</i> | .. | .. | 2 | .. |
| <i>Hysterectomy, supravaginal</i> | .. | .. | 33 | .. |
| <i>Myomectomy</i> | .. | .. | 6 | .. |
| Polypus of cervix-uteri | 10 | .. | .. | .. |
| <i>Dilatation—curettage</i> | .. | .. | 4 | .. |
| <i>Excision</i> | .. | .. | 5 | .. |
| Polypus of uterus | 4 | .. | .. | .. |
| E. VAGINA | | | | |
| Fistula, recto-vaginal <i>Repair</i> | 2 | .. | 1 | .. |
| Fistula, vesico-vaginal <i>Repair</i> | 2 | .. | 2 | .. |
| Tumor: | | | | |
| Mucocoele <i>Excision</i> | 1 | .. | 1 | .. |
| Vaginitis | 1 | .. | .. | .. |
| F. VULVA | | | | |
| Abscess of Bartholin's gland <i>Excision</i> . | 2 | .. | 2 | .. |
| Pruritis vulvae | 1 | .. | .. | .. |
| Tumor: | | | | |
| Carcinoma of vulva <i>Excision</i> | 2 | .. | 2 | .. |
| SECTION XXXVIII | | | | |
| PUERPERAL STATE | | | | |
| Abortion, complete and incomplete | 23 | 1 | .. | .. |
| <i>Dilatation—curettage</i> | .. | .. | 13 | .. |
| Cellulitis, pelvic (puerperal) | 1 | .. | .. | .. |
| Peritonitis, puerperal | 1 | .. | .. | .. |

REPORT OF THE SURGEON-IN-CHIEF

| DISEASES AND CONDITIONS | DIAGNOSES | | OPERATIONS | |
|--|-----------|--------|------------|--------|
| | Total | Deaths | Total | Deaths |
| Pregnancy, normal | 7 | .. | .. | .. |
| Pregnancy, extrauterine | 9 | .. | .. | .. |
| <i>Salpingo-oophorectomy</i> | .. | .. | 7 | .. |
| Rupture of uterus (parturition) | 1 | 1 | .. | .. |
| Subinvolution of uterus | 1 | .. | .. | .. |
| SECTION XXXIX | | | | |
| DISEASES OF THE BREAST, MALE AND FEMALE | | | | |
| Abscess <i>Incision—drainage</i> | 2 | .. | 2 | .. |
| Cystic disease of breast <i>Excision</i> | 2 | .. | 2 | .. |
| Infection of nipple | 1 | .. | .. | .. |
| Mastitis, chronic <i>Mastectomy</i> | 6 | .. | 5 | .. |
| Tumors: | | | | |
| Adenofibroma <i>Excision</i> | 6 | .. | 6 | .. |
| Adenoma <i>Amputation</i> | 1 | .. | 1 | .. |
| Carcinoma <i>Radical amputation</i> | 23 | .. | 19 | .. |
| Fibrolipoma <i>Excision</i> | 1 | .. | 1 | .. |
| SECTION XL | | | | |
| ANAPHYLAXIS | | | | |
| Asthma | 1 | .. | .. | .. |
| Serum sickness | 1 | .. | .. | .. |
| SECTION XLI | | | | |
| ABNORMALITIES OF URINE | | | | |
| Glycosuria | 1 | .. | .. | .. |
| Hematuria | 6 | .. | .. | .. |
| SECTION XLII | | | | |
| ILL-DEFINED OR UNCLASSIFIED DISEASES | | | | |
| Fever, cause unknown | 2 | .. | .. | .. |
| Gangrene (unqualified) | 2 | .. | .. | .. |
| <i>Incision—drainage</i> | .. | .. | 1 | .. |
| Hemorrhage, postoperative | 9 | .. | .. | .. |
| Shock, surgical | 1 | .. | .. | .. |
| Shock, traumatic | 2 | .. | .. | .. |
| Undiagnosed <i>Appendicectomy</i> | 21 | .. | 1 | .. |
| Wound of operation | 2 | .. | .. | .. |
| | 3763 | 109 | 1892 | 71 |

PETER BENT BRIGHAM HOSPITAL

Summary of Statistics

JANUARY 1, 1930, TO JANUARY 1, 1931

| | | |
|--|-------|-------|
| Total number of surgical admissions in 1930 | 2,388 | |
| Total number of cases remaining in wards, Jan. 1, 1930 | 120 | |
| | — | 2,508 |
| Total number of surgical cases discharged or transferred | 2,279 | |
| Total number of deaths | 109 | |
| (Post-operative 71—Non-operative 38—total 109) | | |
| | — | |
| | 2,388 | |
| Total number of cases remaining in wards, Jan. 1, 1931 | 120 | |
| | — | 2,508 |
| Total number of operations | 1,892 | |
| Incidental operations | 135 | |
| | — | 2,027 |

In Memoriam
Horace Mayo Boyden, M.D.

1907-1931

Medical House Officer

ON February 3, 1931, died at the Peter Bent Brigham Hospital HORACE MAYO BOYDEN. An early death has ended a career of great promise; a young man of engaging personality, who already had given evidence of great capability, has gone into the great beyond.

Horace Mayo Boyden was born on April 7, 1907, at Brookings, South Dakota. In 1910 with his parents he moved to Pendleton, Oregon, where he attended school and graduated from the High School. Then he entered the University of Oregon, graduating in 1927 with the degree B.A. Subsequently he entered the Medical School of the University of Michigan from which institution in 1930 he received his M.D. degree.

Both in college and medical school he won enviable rank for scholarship and was a favorite in a large circle of classmates. At the University of Oregon he was a member of the Kappa Sigma fraternity; at Michigan he held membership in Phi Kappa Phi and Nu Sigma Nu. His work as a medical student won for him membership in Alpha Omega Alpha, the honor medical fraternity.

His study of medicine was a natural sequence to the interest in medicine created by his father, Frank E. Boyden, a well-known surgeon in the Pacific Northwest, now resident of Portland, Oregon.

In competitive examination Horace Boyden won a house-officership in medicine at the Peter Bent Brigham Hospital and in the middle of October, 1930, began this work. Eager, intel-

PETER BENT BRIGHAM HOSPITAL

ligent, capable, well trained, his work was done in a most acceptable fashion. His associates of the resident staff and the members of the visiting staff soon acquired a high regard for him and entrusted to him various duties with the feeling that what was assigned him to do would be well done.

In the early hours of January 31, 1931, he awoke from sleep with a painful throat and a chill. A high fever persisted. At noontime the white cells in his blood were only 200 per cubic millimeter and no polymorphonuclear leucocytes could be seen. A nucleotide was given in the hope of stimulating a production of polynuclear cells but with no success. Twenty-four hours before his death his father arrived in Boston having flown from Portland, Oregon, to Boston in thirty-three hours. Late in the afternoon of February 3rd he died from agranulocytic angina. His body was taken to Portland, Oregon, for burial.

The death of a young man, just on the threshold of commencing the career long trained for is sad, and this sadness is felt by all who have come in association with him. We of the staff of the Peter Bent Brigham Hospital mourn the loss of one of our members and extend to his father, mother and brother our heartfelt sympathy.

HENRY A. CHRISTIAN,

Physician-in-chief.

Report of the Physician-in-Chief

AN OPPORTUNITY FOR A PHILANTHROPIST. In daily contact with the problems of the service to the community of an hospital for acute disease, the need for provision for those chronically ill and for those slowly convalescent from acute illness is ever present. Boston possesses but very meagre provision for such patients. The recent review by the Commissioner of Health of Massachusetts of the situation, as concerns a single chronic disease, arthritis, has emphasized the deficiency in provision for the care of these patients, a deficiency which actually covers all forms of chronic disease except mental diseases and possibly tuberculosis. To an acute hospital come very many patients suffering from acute exacerbations of chronic disease or those whose acute illness is only the commencement of some disease, which, with remissions and exacerbations, is to continue for many years; at first these patients recover sufficiently to return for periods to their normal occupations, but eventually they become chronically incapacitated from normal activities and finally become bedridden. Their illness lasts for months and years, not days and weeks; consequently they require proportionately more beds than are needed for the same number of individuals liable to acute illness.

When we have such patients acutely ill in the Peter Bent Brigham Hospital, we are confronted with the problem of their disposal after the acute attack is recovered from. There are very few hospitals to which they can be sent. The beds at the Brigham are needed for others acutely ill. These patients usually are returned to their homes, where they can receive only inadequate care, and hence are unnecessarily uncomfortable and more liable to acute exacerbations of their illness. Their story, as a rule, is one of repeated readmissions to an acute hospital with shorter intervening stays in their homes and a pro-

PETER BENT BRIGHAM HOSPITAL

gression downward of their chronic disease at a rate more rapid than should be and accompanied by an unnecessary amount of discomfort. We see each year many such patients, and we wish constantly for more beds in hospitals really adequately constructed and manned to care for chronic disease.

After acute illness there is always a period, often one of considerable length, when the patient no longer is ill and yet still is far from well. Too early a return to work but prolongs the period of partial incapacity. Unfortunately also in this period occurs often the commencement of a chronic illness that might have been escaped from could the patient have had good convalescent care, especially in an hospital surrounded by ample grounds, removed from the smoke and dust of the city.

Only a small amount of imagination is needed to picture a large tract of land, many acres in extent, not very remote from Boston with thickly wooded vales and wind-swept hilltops, dotted here and there with great trees, such a scene as is so common in New England. At one spot perchance there is a pond with undulating borders and into it pour brooks that have meandered through the tiny valleys that break up the terrain into a rolling type of country. Here is presented to the landscape architect great possibilities for grouping scattered buildings amidst winding paths lined with shrubs and flowers in the summer and bordered by evergreens and snow in winter. Such should be the site selected for an hospital for the chronically sick and for convalescent patients.

Relatively small buildings would house patients grouped together according to their sickness, their personality, their age, etc. The atmosphere of an institution would be reduced to a minimum. Patients could be moved from time to time from building to building, if, for no other reason, to end the monotony of a shut-in life in ever the same surroundings. Sunshine and in-door and out-door physical therapeutic measures would be available. The highest type of professional service

REPORT OF THE PHYSICIAN-IN-CHIEF

should be provided. Modern motor transportation would give easy access for patients and friends of patients.

Such an institution should be intimately related to one or several acute hospitals. Its staff would be made up of those serving too in the acute hospital, dividing their time between the two. Resident staff would rotate between the two institutions.

It would be the regular routine for almost all patients in the acute hospital to be removed early to such a country institution, where convalescence from acute illness would be speeded up, and where patients could remain long enough for a safe return to work. In the acute hospital chronic disease would come in its early stages or after acute exacerbations, these patients later to be transferred to the country group of buildings, for they need more prolonged hospital care than do those suffering from acute disease and should not occupy beds in the hospital for acute disease for long periods.

There is a great field for investigation presented by the convalescent patient and by the chronically ill. Better early care should prevent or at least postpone much of the disability and discomfort of chronic disease. Surely more knowledge would decrease greatly suffering from chronic disease. An institution of this type, where would go patients with all sorts of chronic disease, probably would stimulate investigation more than if but a single disease was being studied. Investigation well might convert the chronic progressive disease into a curable one. Even though this did not happen and many of the patients' needs must grow progressively worse, their days can be rendered more comfortable and more happy, and they would have a proper place in which to die. Their care would remove from their families a great responsibility and a serious economic burden. Modern apartment dwelling greatly has increased the need for such an institution, for the homes of the majority of our citizens are totally unsuited now for the care of the invalid.

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Boston's greatest need today in the way of hospitals is for such an institution. To it should go the well-to-do and the poor. As developments in medicine and surgery have rendered the hospital the best place to be acutely ill in, whether rich or poor, so in the hospital for chronic illness will be found therapeutic measures of all sorts which cannot be provided in the homes of even the very well-to-do. Long since has this been recognized in the care of the tuberculous and the insane. It is equally true of all other sorts of chronic disease.

Strangely enough, though the need is well nigh universal, little has been done anywhere to create such an institution as I am describing. For one with great wealth seeking to accomplish a great good for many people such a philanthropy should appeal. There is opportunity to create a new type of institution greatly needed in our land. I know of nothing that would yield a greater return. It easily would become a pioneer institution, a leader showing the way for other institutions to follow. It would need very large sums of money to make possible an ideal development, more money than so far probably has been put into a single institution at its inception.

BITS OF P. B. B. H. HISTORY. In future years the beginnings of any institution have an increasing interest, but time adds to the difficulty of securing the facts and recording them against the background of those local conditions which have played a part in determining such actions as have been taken. Having participated as the first appointed member of the professional staff (notice of appointment dated April 12, 1910) in many of the discussions that antedate the commencement of construction of the Peter Bent Brigham Hospital and having shared in the formulation of the early policies of the institution, I plan to utilize the annual Report as a place to record from time to time such recollections and records of these beginnings of the Hospital as I possess, in the hope that in the years to come they may be helpful to some possible historian recording the story of the beginnings of the Peter Bent Brigham Hospital.

REPORT OF THE PHYSICIAN-IN-CHIEF

These historical bits will have no particular sequence; they will be chosen as fancy dictates and be entered from year to year in the report of the Physician-in-Chief during those years of active service remaining to the present incumbent of the post.

FRANCIS PEABODY'S ASSOCIATION WITH THE P. B. B. H. In organizing new institutions selection of personnel probably is vitally more important than anything else, not excluding structural arrangements; certainly at no other time in the history of an institution is personnel of so great importance as at its beginning, for the first incumbent of a post sets traditions which may continue for generations, and particularly do undesirable traditions persist. In making selections, the responsible head runs over in his mind the qualities of possible appointees, gaining information about them from every available source and chooses several as being desirable. This small group is studied further and a final selection made. Then the consent of the individual to accept the position is sought, and if accepted, his name is forwarded through proper channels to the appointing powers. Such were my mental processes in the months following April 12, 1910, when I received notice that I had been appointed as Physician-in-Chief to the new Peter Bent Brigham Hospital, shortly to be erected on land adjacent to the buildings of the Harvard Medical School.

As I conceived it, the best organization of the medical service would be one composed of a visiting staff and a resident staff, and at the head of the latter as resident physician, a man who possessed the quality of leadership to mould the medical character of his juniors. The resident physician was to have a very important function in this scheme of organization, an organization which in many respects was to be different from any other up to that time planned. The resident physician, still young, must be well trained in both the art and science of medicine, and his training must have been received in a number of different localities to prevent any of the narrow provincialism

PETER BENT BRIGHAM HOSPITAL

that so often comes if there is too great satisfaction with a local training that has never had the test of first-hand comparison with that of another locality. His personality must be such that he could work co-operatively with a variety of types of individuals ranging from men and women highly trained in special fields of endeavor to those everyday sorts of individuals that make up the patients rich and poor, learned and ignorant, aristocratic and plebeian, that seek medical help in a general hospital.

As a young teacher in the Harvard Medical School I had come to know a student of unusual qualities, and I had followed his further training with keenest interest. In my opinion he possessed all of those qualifications that would make him the ideal resident physician first to fill that post at the Peter Bent Brigham Hospital. The only doubt was, would he come after his years of intensive training to create the ideals and traditions of the residency in a new and untried institution? Of this I had considerable doubt, but at least in asking Francis Peabody to accept the post one tradition at least would be set, namely, the seeking of the individual generally acknowledged to be ideally suitable for a very important position in this or any new institution.

Some of the correspondence that passed at this time gives, I think, both an insight into qualities that later were to grow and blossom into full fruition in the wonderful character of Francis Peabody, and a bit of the history of the beginnings of the Peter Bent Brigham Hospital that in years to come may be of some interest.

JANUARY 17, 1912.

DR. FRANCIS PEABODY,
Rockefeller Institute,
New York City.

Dear Peabody:

Affairs are rapidly shaping themselves as regards the Peter Bent Brigham Hospital. You will recall my conversation with you in December in New York in regard to that work. At the February meeting of the Board of Trustees of the Peter Bent Brigham Hospital, I wish to present nominations for members of my Staff, and I would like to send

REPORT OF THE PHYSICIAN-IN-CHIEF

in your name as Resident Physician of the Peter Bent Brigham Hospital for one year from the date of the beginning of your service. The position will carry with it residence in the Hospital, with board and laundry, and a salary of \$1,000 per annum. The duties of the position will be general supervision of the Medical Service, the work of the Medical Service in detail to be done by house-officers, so that aside from the general responsibility of the management of the Service, you will have very considerable time to carry on medical investigations, the nature of which can be determined entirely by yourself. If the work proves satisfactory to you, and your work satisfactory to me (and of the latter I have very little doubt), you will be free to continue in this position for a longer period of time than one year, inasmuch as it is the purpose to make this appointment for a year, subject to renomination without any specified limit of time. It is supposed that the Hospital will be opened for patients during the latter part of October of next year.

I also desire you to go abroad with me, possibly others, sailing probably on April 30th, to be away until October 1st, or somewhat later, to visit during this time various clinics, study methods, etc. Your expenses for this trip will be paid by the Hospital, though you will receive no salary for work until the date of the opening of the Hospital.

I will be glad if you will ask any questions in connection with this work that you desire to have answered, or if you wish to talk over things, you can come over here sometime to see me. I hope very much that you will feel willing to undertake this work, and so will give me your permission to present your name in nomination for it. I think the opportunities of doing the kind of work that you desire to do are good here in Boston, and I feel very confident that you will make good, and find that opportunities will open for you in the Medical School as you go along.

Very sincerely yours,
(Signed) HENRY A. CHRISTIAN.

JANUARY 18, 1912.

Dear Dr. Christian:

Thank you for your letter. I think my decision would be somewhat influenced by knowing who the rest of the staff is to be and my exact relations to them; in more particularly who, besides yourself, would be senior to me in the clinic, and in how far should I occupy the position of a junior. It is of course of considerable importance to me at just this stage in my career that I should be able to get help and stimulation from any one who ranks above me. If I know with whom I am to be associated, and what my relations to them are to be, I think I can consider the subject and talk with my advisors more satisfactorily. I hope I don't seem too inquisitive about your plans, but the two things which I feel have to be considered are the exact character of the immediate position, and the chances of going up in the clinic.

Very sincerely yours,
(Signed) FRANCIS W. PEABODY.

P. S.: I shall get on to see you after I hear from you and talk things over.

PETER BENT BRIGHAM HOSPITAL

JANUARY 19, 1912.

DR. FRANCIS W. PEABODY,
Rockefeller Institute,
New York City.

Dear Peabody:

The Medical Staff of the Brigham Hospital when it is going full blast is expected to be as follows: Physician-in-Chief and Physician, Assistant Visiting Physicians and Resident Physician, three Assistant Resident Physicians, eight Medical House-officers. It is obvious that all of these will not be needed in the beginning. It is planned to start with the Physician-in-Chief, the Physician, the Resident Physician, and four Medical House-officers. At the end of four months one Medical House-officer will become Assistant Resident Physician; at the end of four more months, another House-officer will become Assistant Resident Physician. When it seems evident that they are needed, a second string of Medical House-officers will be started. Assistant Visiting Physicians will be men primarily to look after the Out-patient Department, but with the plan of Out-patient Service that we will have, these will not be required for some little time. These Assistant Visiting Physicians will also have opportunity to work in the wards, and will be paid a salary when on duty. So you will find at the outset that you will be Junior to myself and to the Physician, with the possibility of becoming an Assistant Visiting Physician at the time that you retire from the position of Resident Physician. The men I am considering tentatively for these other positions in the Hospital are Channing Frothingham as Physician, and Chandler Walker, who is now with Campbell Howard in Iowa City, as the next man below you, and Reginald Fitz as the man below him.

As to help and stimulation in your work, I take it that you have about arrived at the place from which you can proceed independently. At least I am thinking of you in connection with the Brigham Hospital as an independent worker. Of course, we all expect to run a good team and mutually help one another.

I will be very glad if you do come on to talk this over.

Very sincerely yours,

(Signed) HENRY A. CHRISTIAN.

JANUARY 31, 1912.

Dear Dr. Christian:

I should like very much to become a member of your staff and to hold the position of Resident Physician of the Peter Bent Brigham Hospital. It is a great pleasure to look forward to working with you, and I only hope that I may be able to do my share in helping towards the development of the clinic.

With very many thanks to you for all your kindness, believe me

Most sincerely yours,

(Signed) FRANCIS W. PEABODY.

REPORT OF THE PHYSICIAN-IN-CHIEF

FEBRUARY 2, 1912.

DR. FRANCIS PEABODY,
Rockefeller Institute,
New York City.

Dear Peabody:

I am very glad indeed to receive this morning your acceptance of the nomination as Resident Physician in the Peter Bent Brigham Hospital. I am looking forward with greatest pleasure to having you here. You will see from the newspapers that I have resigned as Dean. I have also resigned as Physician-in-Chief at the Carney Hospital. So the road is clear for consistent efforts at the new Hospital.

I wish you would drop a line to Reginald Fitz stating that you are coming. The Staff is now completed with the exception of the Senior House-officer, whom I want to be Fitz. The Staff in order will be as follows: myself, Channing Frothingham, yourself, Walker, Fitz (?), Dawson, now my House-officer at the Carney, and on February 16th I will hold examination for the Sub-junior House-officer. These nominations will be put in the hands of the Trustees for their February meeting, about the middle of the month. After that I presume you will receive a formal appointment.

Very sincerely yours,
(Signed) HENRY A. CHRISTIAN.

FEBRUARY 9, 1912.

Dear Dr. Christian:

Here is my "Lebenslauf":

A.B., Harvard, 1903.
M.D., Harvard, 1907.
Interne, Massachusetts General Hospital, 1907-1908.
Assistant Resident Physician, Johns Hopkins Hospital, 1908-1909.
Fellow in Pathology, Johns Hopkins University, 1909-1910.
Student of Chemistry, University of Berlin, 1910.
Assistant Resident Physician, Hospital of the Rockefeller Institute, 1911-1912.
Assistant of the Rockefeller Institute, 1911-1912.

Publications

1. Ueber den Wert von Malachitgrünnährboden zu Differenzierung von Typhus und Colonbacillin (with J. H. Pratt).
2. Diagnosis of Typhoid Fever by Cultures from the Blood of the Ear.
3. The Occurrence of Typhoid Bacilli in the Stools of Typhoid Patients (with J. H. Pratt and A. D. Long).
4. The Bacteriologic Diagnosis of Typhoid Fever.
5. A Note on the Venous Pulse in Paroxysmal Tachycardia.
6. Heart-Block Associated with Infectious Diseases.
7. A Study of Two Cases of Adams-Stokes Syndrome with Heart-Block (with W. S. Thayer).
8. Epidemic Poliomyelitis: The Visceral Lesions in Human Cases (with Simon Flexner and George Draper).

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9. Spinal Fluid and Blood in Acute Poliomyelitis (with George Draper—to be published).

10. A Clinical Study of Acute Poliomyelitis (with George Draper and A. R. Dochez—in preparation).

Very sincerely yours,

(Signed) FRANCIS W. PEABODY.

APRIL 20, 1912.

Dear Peabody:

I enclose a check for \$500, which I think you had better yourself invest in the American Express Company checks to cover expenses of the trip when we are not together. Jack Homans is going with us on the Laconia.

Sincerely yours,

(Signed) HENRY A. CHRISTIAN.

TUESDAY.

Dear Dr. Christian:

Many thanks for your check for \$500. I shall turn it into American Express Company checks. Today I had my passport viséed by the Russian Consul, so I am now ready for the worst. I expect to go to Boston on Friday, and I shall call you up on Saturday to get further instructions.

Sincerely yours,

(Signed) FRANCIS W. PEABODY.

With this acceptance of the offer on January 31, 1912, there began an intimate, delightful and inspiring association with Francis Peabody which continued through the years 1912-1921 as Resident Physician and Physician to the Peter Bent Brigham Hospital, an association which, though less close after his being made Director of the Thorndike Memorial Laboratory at the Boston City Hospital, remained a cherished one up to the time of his all too early death. Those years during which he was a member of the staff of the Peter Bent Brigham Hospital revealed that all the qualities of heart and mind that Francis was thought to possess when he was chosen to be first Resident Physician, and more, he actually did possess, and he was in fact the ideal man for the job throughout those days of his active service on the staff of the Peter Bent Brigham Hospital.

On April 30, 1912, a small group of us sailed on the Laconia from Boston for Liverpool. Francis and I were to be joined later by other appointees on the new staff of the Peter Bent

REPORT OF THE PHYSICIAN-IN-CHIEF

Brigham Hospital with the plan of making a study of methods in use in various foreign universities and clinics in order to be able more effectively and efficiently to organize our own work in Boston. The summer of 1912 was a happy one; we saw much both of medical and general interest; fast friendships were formed; such human frailties as each might possess (Francis seemed to have practically negligible ones) became understood; we returned as a small nucleus for the future medical staff well moulded into a team to carry on the work that it was to be our individual opportunities to do at the Peter Bent Brigham Hospital.

The part of the summer probably most significant for Francis Peabody was the period at Copenhagen, during which he worked from June 18th to July 6th in the laboratory of Zoo-physiology of Professor Krogh, and in the chemical division of the Carlsburg Laboratory under Professor Sørensen, because on his return to Boston he set himself to apply in the clinic of the Peter Bent Brigham Hospital the methods learned under these men in the study of the respiratory mechanism, and from this developed his studies of vital capacity in man, of dyspnea, and of the reaction of blood serum and urine in various relationships. How new to medical literature in the United States were these ideas is witnessed by a footnote explanation of "ph" added by me to his paper entitled, "Studies on Acidosis and Dyspnea in Renal and Cardiac Disease" in the Archives of Internal Medicine of August, 1914, after great travail of mind on my part at the request of the editor, for Francis at that time was en route to China as a member of the Rockefeller Commission, and no one else but Francis seemed to really understand what "ph" meant; I did not, even after having prepared the explanation with the help of colleagues by quoting from a paper by Sørensen.

The summer abroad demonstrated that Francis was a good traveller, ever a delightful companion, keenly capable of setting correct values on medical things, quick to enjoy the day's

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fun, readily adapting himself to the plans of others, but never losing his own identity in interests. Quickly he was sized up as being worth while by those with whom he came in contact, a feature of his make-up which always seemed in evidence throughout his career, and in part is responsible for the many friendships he made with his colleagues then and in after life.

Returning to Boston in the autumn of 1912, as so often happens, construction on the hospital had proceeded more slowly than expected, and the wards were not ready for patients. Such of the medical staff as had assembled busied itself in the laboratories of the Harvard Medical School until March 31, 1913, when the first ward for medical patients (Ward F) was opened. The delay in opening, the inconvenience of beginning every part of the hospital *de novo* and on a small scale, were accepted by Francis Peabody without comment or complaint. Quietly, efficiently his tasks in organizing were done. The early patients received his considerate care; to him they were human fellowships; his attitude towards patients established for us a tradition that is often expressed by our patients in saying everybody at the Brigham is interested in us and so friendly. On the other hand, his attitude towards investigation was critical and thoroughly scientific. In other words, from those early days on with patients he was physician, a counsellor and friend, with investigations a scientist, coolly critical. Towards his colleagues on the staff, particularly the younger members, he combined these two attitudes and so was a leader exerting the best sort of influence.

Many tasks in those early days of organization were given to Francis with the assured feeling that they would be done in the very best way and would need no further thought. Few of his contemporaries gave so long a time so uninterruptedly to training for their life work. Endowed with very unusual capabilities to learn, is it any wonder that Francis Peabody early became a recognized master in his profession?

REPORT OF THE PHYSICIAN-IN-CHIEF

Until 1921 he remained at the Brigham, from 1915 as Physician. Every day was spent in medical work and very largely within the hospital walls. His teaching duties in the medical school at this time largely were in the course of clinical pathology, which he had charge of. Throughout this period of 1915-1921, he had entire freedom to see such patients inside or outside of the hospital as he chose. No one ever thought of suggesting how he should occupy his time. Theoretically half-time was to be given to hospital and medical school work; actually far more was given, but he decided this, for all had the utmost confidence that what he did was best for his progressive development.

During these latter years at the Peter Bent Brigham Hospital came numerous calls to important chairs of medicine. Each call received a careful consideration, and the opportunities offered were thoroughly investigated. Apparently Francis Peabody early had made up his mind to cast his lot in with Boston developments in medicine, and splendid offers did not succeed in shaking his faith in that medical school with its affiliated hospitals in which he had begun his medical studies. In no sense provincial in his medical relationships, he appeared to feel that he could grow progressively in medicine best in the atmosphere which to him was home. Did not subsequent events prove that in this, as in many other things, he showed great wisdom?

When finally he left his active work at the Peter Bent Brigham Hospital, his colleagues there greatly rejoiced because of the great opportunity that was to be his at the Boston City Hospital, and because he was to remain near us, still closely affiliated through the Department of Medicine at the Harvard Medical School with his colleagues, who in their contact with him at the Peter Bent Brigham Hospital, had come to know him as their ideal in medicine and the daily duties of life.

INVESTIGATION. As one looks about, the men most competent for sustained investigation now seem to be turning to the

preclinical sciences rather than entering the clinics. Several factors, it seems to me, are working to that end. Clinic chiefs are tending to become limited in their knowledge of medical literature and familiar with a narrowed field of clinical observation. The many clinics enlarged and reorganized in recent years have offered many attractive positions to younger men, and this has stopped that long sojourn in preclinical fields so commonly practiced by our predecessors in clinical fields. The result is that few of present-day clinicians have had prolonged contact in preclinical laboratories with the master minds in these fields. They have missed a most valuable training and discipline which their work in the clinic with its diverting interests and necessities incident to the care of patients has failed to supply. In the clinics students are coming under less notable leadership than they would have had in the preclinical sciences.

In organizing our clinics we have failed to secure the opportunity for mature, sustained investigation. Clinical problems are being investigated, but few clinic heads have the ability for sustained investigation of related problems and did they, their numerous other duties would allow them no time for such type of work. Clinic chiefs, as we have them, are needed, and they fill well certain requirements of the clinic. No clinic can care for its patients satisfactorily unless it has a fairly large group of clinically mature men, and these have an important rôle to play in the teaching within the clinic. We do need, however, in addition the development of another type of clinic worker, the one whose great interest in life is investigation. Such men should have co-ordinate rank and remuneration with the present type of chief of clinic; the two types should work side by side. At present almost all that is offered as a reward to the former is the opportunity to become the latter type with duties that almost surely will preclude continuation in the endeavor which has won for him the right of reward by promotion. Lack of such opportunity to attain to positions of permanency and dig-

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nity with adequate salary is a deterrent to the man with a serious interest in sustained investigation from continuing in the clinic, though there he may find problems of very great interest to study.

It was this lack in the clinics of the past that was an important influence in the development of so-called whole-time teaching in clinical branches of medicine. Whole-time teaching with its artificial restrictions pointed the way to improvement, and now the artificial restrictions are being abandoned, largely because they are obviously artificial. The newer clinics are better, but they seem little nearer to the investigational idea of a true university department of graduate study. This is being recognized in many parts of the world, and new methods will be tried toward this end of more sustained, higher grade investigation within the clinic.

It seems that the time has passed when there is any question about investigation being one of the obligations of a hospital to the community and to medicine. Investigation is recognized today as an integral part of the work of all hospitals which are more than nursing homes and places for surgical operation, and hospitals include the cost of laboratory and other facilities for investigation in their annual budgets. Such is only right for without any investigation staff members soon cease to progress, and investigation brings to patients better service. It is interesting that the industrial world takes just the same attitude to investigation and makes proportionately large expenditure for laboratories for investigation. Such organizations as the General Electric Company, the American Telephone Company, the Eastman Kodak Company, as examples, maintain laboratories in which even pure science is investigated.

The Peter Bent Brigham Hospital, as pointed out in previous annual reports, has not kept up with other hospitals in the development of laboratories. The laboratories need to be enlarged. More important there is need for investigators. There should be added to the medical staff a well-trained, well-paid

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man, primarily concerned in the investigative field of medicine. Opportunity should be provided for the proper man to become a permanent member of the staff, detached from routine clinical duties, not obligated to practice as a means of income. Such a man should hold a dual appointment in the Harvard Medical School and the Peter Bent Brigham Hospital and should be provided with facilities in the way of assistants, technicians and apparatus for investigation.

REPORT OF DR. DERICK ON THE OUT-DOOR DEPARTMENT. (Supervision of this department was taken over by Dr. Derick in September at the beginning of the academic year.) To one who was unfamiliar with the appointment system it was a pleasure to find the orderliness and despatch with which large numbers of patients can be cared for without evidence of congestion. This smooth-running machine does credit to the time and thought expended upon its perfection by my predecessors.

The growth of this department goes on apace however much one might wish it otherwise. This fact is readily shown when a comparison of the attendance for 1930 is made with that of 1927. In 1927 a total of 32,303 visits were made in the Medical Out-Door Department of which number 14,847 were cared for in the special clinics while in 1930 there was a total of 43,478 visits with 22,198 cared for in the special clinics. Thus, in a period of three years there has been an increase of 7,351 visits to the special clinics alone. These increased visits have been fairly well spread over all the special clinics and have not worked hardships so far, although at least one has had to run two mornings a week instead of one as previously. One wonders about the adequate care for each individual patient in the future should the attendance increase proportionately over a period of years unless the size of the clinic is further increased physically as well as in the number of the attending staff. Possibly this increased attendance will take care of itself since there were only 3,390 new cases in 1930, as compared to 3,613 in 1927.

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One unfortunate factor for which there seems no remedy at the present time, is the failure of some patients either to keep their appointment on time or at all. This is felt chiefly in the teaching clinic where the fourth year medical students come early in the hope of finishing their two allotted cases by noon and in the Thursday morning asthma clinic. This latter period has been set aside for the skin-testing of patients which is a time-consuming procedure. Hence, a limited number can be accommodated at each period so that when making the appointment patients should be told to notify the clinic by telephone if they find that they are unable to attend.

Teaching Medicine in the Out-Door Department. This has been carried out very much as in past years. Each morning there are three men from each of the third and fourth year classes at the Harvard Medical School. Since the third year men each take one case and the fourth year men two cases in a morning this makes a total of fifty-four cases weekly which are worked up carefully in addition to those cared for by the house staff on duty.

An attempt has been made to have each new case return at least once to the teaching clinic so that the men can find out the results of any special examinations done. In this connection I should like to express my appreciation to the house officers on duty for their co-operation in demonstrating to the students any very interesting case they may have come across.

Innovations During the Past Year. A return has been made to the practice of taking electrocardiographic tracings in the Out-Door Department. This is found to be time saving to the patient, convenient to the technician in the heart station and works no hardship on the nursing staff since one of the girl attendants has been trained to apply the electrodes efficiently.

During the year a dental clinic under the direction of Dr. Moses S. Strock of the Harvard Dental School staff and Dr. Charles Cashman of our own house staff has been functioning two mornings a week, chiefly for the diagnosis of dental con-

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ditions, extraction of teeth and direction of treatments. Although the youngest of the special clinics, it already has justified its existence and should prove of great usefulness as time goes on.

In view of the large number of patients seen who have nose or throat infections either solely or in addition to their general medical ailments it seems to me that there is a great need for a clinic in this specialty. There is no need for this clinic to function in other than a diagnostic sense. The diagnosis having been made and any prolonged treatment having been found necessary, the patient could then be referred to another institution. The advantages to be gained from having such a clinic would be to have all patients seen promptly, to have an opinion on doubtful cases and also to have our records more complete. At present, time is lost in getting a report from other institutions to which these patients have been sent. In fact, at times it seems almost impossible to get a satisfactory report when there are special conditions under consideration.

Suggested Physical Improvements. As pointed out last year it would be a decided improvement could the large end rooms on the third floor which are used by the teaching clinics be subdivided suitably by some inexpensive means. With the large number of workers to be accommodated at the present time, it is often a problem to arrange to have patients of the same sex occupying one of these rooms.

There is also need for a much larger appointment office and case record room. As shown above the number of yearly visits to the Medical Out-Door Department alone has increased by over 11,000 in three years. During this time no increased space for handling the additional clerical work entailed has been provided. When one visits the appointment office or record room during their busiest times, one finds it hard to imagine that the Out-Door Department is run on the appointment system.

Report on Special Clinics. With very few exceptions the special clinics are directed by the same staff members as in pre-

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vious years. All are doing efficiently their share to look after the increasing amount of work to be done. In a few instances, notably the asthma clinic, the total number of yearly visits has fallen off considerably. This should be looked upon as a good thing, as it now gives an opportunity for more careful work to be done on the individual patients.

Probably with one exception, the renal clinic, ample space is provided for the members of each special clinic to do their work. At the present time in the renal clinic all of the work, other than that done in the laboratory, is carried out in one moderate-sized room. Frequently this holds three doctors, two assistants and three patients at one time. A female patient may be undressing behind a screen within five or six feet of two male patients who are having histories taken or receiving instructions about their care. More ample examining rooms for the members of this clinic should be provided.

Due to the increasing number of patients the cardiac clinic found it necessary to hold two periods weekly. This latter arrangement enabled more time to be given to each individual case and also has permitted greater latitude in teaching both members of the resident staff of the hospital and outside practicing physicians who come in one hour weekly.

Other essential adjuncts to a modern Out-Door Department are the nursing, dietetic and social service staffs. The heads and various members of these different departments have rendered efficient and co-operative service throughout the year.

PHYSICIAN-IN-CHIEF, *Pro tempore*. Each year brings to us a stimulating residence in the hospital of one of the outstanding men in medicine, who for a short period takes over the direction of the clinic. The list has lengthened until now it contains sixteen names. In this list we feel a great pride in that so many eminent physicians have been willing to give us richly of their time and their knowledge at no small sacrifice to themselves.

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In 1930 James S. McLester, Professor of Medicine at the University of Alabama, served as sixteenth physician-in-chief, *pro tempore*. A skilled practitioner of the art of medicine, an author who has written with unusual clarity of the intricacies of metabolism as applied to the care of patients, a lucid teacher, a genial southern gentleman, all of us enjoyed his visit and profited by his discussion of our patients.

CHANGES IN PERSONNEL. During 1930 changes in personnel have been confined to the junior staff. As assistant resident physicians the following ended their service: Dr. Francis M. Thurmon to become the head of the syphilitic service at the Boston Dispensary; Dr. Samuel A. Shelburne to become Assistant Resident Physician at the Lakeside Hospital, Cleveland; Dr. Stuyvesant P. Butler to become associated in practice with Dr. Brown in Chicago and Dr. Neil Feeney to become a member of the junior staff of the Montreal General Hospital. Dr. Robert F. McGrath resigned as Junior Associate in Medicine to return to Chicago.

During 1930 there were appointed as assistant resident physicians Dr. Leyland J. Adams who comes from the Montreal General Hospital, Dr. Alex R. Freeman who comes from the Grady Hospital at Atlanta, Georgia, Dr. Richard G. Hahn formerly medical house officer at the Peter Bent Brigham Hospital, and Dr. Gordon B. Myers who comes from the Receiving Hospital, Detroit, Michigan.

As medical house officers the following men completed their service and began on other work as follows: Dr. Harry B. Friedgood to become instructor in medicine at the University of Michigan; Dr. George E. Shambaugh, Jr., to take a service at the Massachusetts Eye and Ear Infirmary; Dr. Thomas C. Rennie to become a member of the medical department at the University of Michigan; Dr. Richard G. Hahn to become assistant resident physician at the Peter Bent Brigham Hospital; Dr. William G. Harrison, Jr., to become a member of the surgical service at Vanderbilt University at Nashville, Tennessee;

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Dr. Theodore G. Klumpp to become assistant resident physician at Lakeside Hospital, Cleveland, Ohio; Dr. Morris A. Bowie to become a member of the Medical department at the University of Pennsylvania; Dr. James I. Farrell to take a service at the Massachusetts Eye and Ear Infirmary; Dr. James P. Tollman to become pathological house officer at the Peter Bent Brigham Hospital.

PUBLICATIONS FOR 1930. During 1930 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 the work is under way and the second time when completed and published.

CHRISTIAN, HENRY A. Chronic Non-Valvular Cardiac Disease (Chronic Myocarditis and Chronic Myocardial Insufficiency).^{*} Oxford Medicine, Oxford University Press, New York, 2:492, 1929.

—— Purpura.^{*} Oxford Medicine, Oxford University Press, New York, 2:779, 1929.

—— Chronic Nonvalvular Heart Disease—Its Causes, Diagnosis, and Management. Cal. & West. Med., 32:1, 1930.

—— The Practitioner's Need of an Intelligent Skepticism. Annual oration of Mass. Med. Soc. New Eng. Jour. Med., 202:1181, 1930.

—— Diuretics and Their Uses. Memphis Med. Jour., November, 1930.

—— The Hospital's Obligations to Its Internes. The Modern Hospital, 34: No. 4, 1930.

CHRISTIAN, H. A. and O'HARE, JAMES P. Acute and Chronic Nephritis; Essential Vascular Hypertension; Renal Arteriosclerosis. Oxford Medicine, Oxford University Press, New York, 3:641, 1930.

—— Nephritis. Cecil's Textbook of Medicine, Second Edition: 927, 1930.

^{*} Overlooked in last year's report.

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- FITZ, REGINALD. The Teaching of Medicine from the Standpoint of a Half-Time Teacher. Proceedings, Congress on Med. Education, Med. Licensure and Hospitals, Chicago, February 17-19, 1930.
- The Problem of Pulmonary Tuberculosis in Patients with Diabetes. *Am. Jour. Med. Sc.*, 180:192, 1930.
- O'HARE, J. P. and KIRK, E. J. Hemorrhagic Nephritis. *Ann. Int. Med.*, 3:920, 1930.
- O'HARE, J. P. and EGLOFF, W. The Hypertensive Heart. *N. Y. State Jour. Med.*, September 1, 1930.
- LEVINE, SAMUEL A. The Diagnosis of Syphilitic Aortitis with Negative Wassermann Reactions. *Am. Heart Jour.*, 6:116, 1930.
- LEVINE, S. A., ANDREN, T. and HOMANS, K. A. Nosebleed and Vomiting in Rheumatic Individuals. *New Eng. Jour. Med.*, 203:832, 1930.
- ALT, H. L. and BARKER, M. H. Fever of Unknown Origin. *Jour. Am. Med. Assoc.*, 94:1457, 1930.
- ALT, H. L., WALKER, G. L. and SMITH, W. C. The Cardiac Output in Heart Disease. II. Effect of Exercise on the Circulation in Patients with Chronic Rheumatic Valvular Disease, Subacute Rheumatic Fever and Complete Heart Block. *Arch. Int. Med.*, 45:958, 1930.
- BARKER, M. H. and KIRK, E. J. Experimental Edema (Nephrosis) in Dogs in Relation to Edema of Renal Origin in Patients. *Arch. Int. Med.*, 45:319, 1930.
- BLOTNER, HARRY. Coronary Disease in Diabetes Mellitus. *New Eng. Jour. Med.*, 203:709, 1930.
- BLOTNER, H. and MURPHY, W. P. Effect of Certain Liver Extracts on the Blood Sugar of Diabetic Patients. *Jour. Am. Med. Assoc.*, 94:1811, 1930.
- BOWIE, M. A., POWERS, J. H. and HOWARD, I. M. Some Observations on the Blood of Normal Dogs, with Special Reference to the Total Volume. *Am. Jour. Phys.*, 92:665, 1930.
- BUTLER, S. and LEVINE, S. A. Diphtheria as a Cause of Late Heart-Block. *Am. Heart Jour.*, 5:592, 1930.
- BUTLER, S., FEENEY, N. and LEVINE, S. A. The Patient with Heart Disease as a Surgical Risk. Review of Four Hundred and Fourteen Cases. *Jour. Am. Med. Assoc.*, 95:85, 1930.

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- CRANE, M. P., HOWARD, I. and MURPHY, W. P. The Effect of Liver Extract on the Blood of Normal Persons. *Am. Jour. Med. Sc.*, 180:803, 1930.
- EMERY, EDWARD S., JR. Hydrochloric Acid and Diarrhoea. *New Eng. Jour. Med.*, 203:785, 1930.
- FITZHUGH, GREENE. A Clinical and Pathological Study of Chronic Myocarditis. *New Eng. Jour. Med.*, 203:201, 1930.
- FRIEDGOOD, HARRY B. The Ocular Manifestations of Sympathetic Nervous System Hyperactivity in Conditions Other Than Exophthalmic Goiter and Especially in Essential Hypertension. "Lidspasm": A New Eye Sign. *Am. Jour. Med. Sc.*, 180:836, 1930.
- FULTON, M. N. and ALT, H. L. The Comparative Effect of Different Iodine Preparations in the Preoperative Treatment of Thyrotoxicosis. *New Eng. Jour. Med.*, 203:327, 1930.
- GRABFIELD, G. P. Studies on the Nitrogen and Sulphur Metabolism in "Bright's Disease." I. The Retention of Nitrogen and Sulphur in "Nephrosis." *Jour. Clin. Invest.*, 9:311, 1930.
- HARVEY, E. A. and LEVINE, S. A. A Study of Uninfected Mural Thrombi of the Heart. *Am. Jour. Med. Sc.*, 180:365, 1930.
- HOUCK, G. H. and BENNETT, G. A. Polypoid Fibroma of the Left Auricle (So-Called Cardiac Myxoma) Causing a Ball-Valve Action. *Am. Heart Jour.*, 5:787, 1930.
- MASSEE, J. C. and ROONEY, J. S. Meningitis Due to *Torula Histolytica*. Report of a Case. *Jour. Am. Med. Assoc.*, 94:1650, 1930.
- McKENNA, JOHN B. The Incidence of Fever and Leukocytosis in Multiple Sclerosis. *Arch. Neur. & Psych.*, 24:542, 1930.
- MURPHY, WILLIAM P. Observations on the Treatment of Anaemia. *Surg., Gyn. and Obst.*, 50:246, 1930.
- MURPHY, W. P. and FITZHUGH, G. Red Blood Cell Size in Anemia. Its Value in Differential Diagnosis. *Arch. Int. Med.*, 46:440, 1930.
- SHAMBAUGH, G. E., JR., HARRISON, W. G., JR., and FARRELL, J. I. Treatment of the Respiratory Paralysis of Poliomyelitis in a Respiratory Chamber. Report of Three

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Cases, With One Recovery. Jour. Am. Med. Assoc., 94: 1371, 1930.

SMITH, W. C., WALKER, G. L. and ALT, H. L. The Cardiac Output in Heart Disease. I. Complete Heart Block, Auricular Fibrillation Before and After the Restoration to Normal Rhythm, Subacute Rheumatic Fever and Chronic Rheumatic Valvular Disease. Arch. Int. Med., 45:706, 1930.

WALKER, I. C. and ADKINSON, J. Frequent Chest Colds. Variability in Their Occurrence and the Bacteriology in Those Very Susceptible to This Type of Cold. Arch. Int. Med., 46:1, 1930.

Again it is a pleasure to acknowledge a year of helpful co-operation in the work of the medical service from many members of the hospital family, colleagues on the staff, administrative officers, house officers and residents, nurses, orderlies, maids and many others that are needed to keep moving in smooth unison the many wheels of a hospital.

HENRY A. CHRISTIAN,
Physician-in-Chief.

DECEMBER 31, 1930.

Summary of Medical Statistics

JANUARY 1, 1930, TO JANUARY 1, 1931

| | | |
|--|-------|-------|
| Total number of admissions in 1930 | 1,996 | |
| Total number of medical cases remaining in the wards, January 1, 1930 | 100 | |
| | <hr/> | 2,096 |
| Total number medical readmissions discharged in 1930 | 215 | |
| Total number of medical new cases discharged in 1930 | 1,812 | |
| | <hr/> | 2,027 |
| Total number of medical cases remaining in the wards, January 1, 1931 | 69 | |
| | <hr/> | 2,096 |
| Results on medical cases discharged in 1930 were as follows: | | |
| Total number discharged well | 27 | |
| Total number discharged improved | 1,211 | |
| Total number discharged unimproved | 182 | |
| Total number discharged untreated | 256 | |
| Total number transferred to Surgical Service | 178 | |
| Total number dead | 173 | |
| | <hr/> | 2,027 |
| Total number of medical cases remaining in the wards, January 1, 1931 | 69 | |
| | <hr/> | 2,096 |

Visiting Physicians and Surgeons *Pro Tempore*

SIR CHARLES BALLANCE

K.C.M.G., C.B.; Consulting Surgeon to British Army, 1914-19; Col., R.A.M.C.; Consulting Surgeon to St. Thomas Hospital and to the National Hospital for Paralysis and Epilepsy; *Surgeon-in-chief pro tem.*, P. B. B. H., October 15 to October 25, 1928.

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.

PROF. OTFRID FOERSTER

Professor of Neurol., Univ. of Breslau; *Surgeon-in-chief pro tem.*, P. B. B. H., October 1 to October 14, 1930.

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. DUNCAN GRAHAM

M.D., Univ. of Toronto, 1905; Professor of Medicine, Univ. of Toronto; *Physician-in-chief*, Toronto General Hospital; *Physician-in-chief pro tem.*, P. B. B. H., March 3 to March 10, 1929.

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 Phys-

VISITING PHYSICIANS AND SURGEONS

ician, 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. Died June 15, 1927.

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.

PROF. RENÉ LERICHE

Professor of Surgery, University of Strasbourg; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, June 12 to June 20, 1929.

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.P.; F.R.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.

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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.

DR. JAMES S. McLESTER

A.B., Univ. of Alabama, 1896; M.D., Univ. of Virginia, 1899; Prof. of Med., Univ. of Alabama; *Physician-in-chief pro tem.*, *P. B. B. H.*, April 27 to May 3, 1930.

PROF. GUNNAR NYSTRÖM

Professor of Surgery, University of Upsala, Sweden; *Surgeon-in-chief pro tem.*, *P. B. B. H.*, May 23 to May 26, 1930.

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.

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.

SIR HUMPHRY ROLLESTON, Bart.

G.C.V.O.; K.C.B.; M.A. and M.D., Cambridge University; Fellow and sometime President of the Royal College of Physicians of London; Hon. D.Sc., D.C.L., LL.D.; Fellow and sometime President of the Royal Society of Medicine; Consulting Physician (Temporary Surgeon Rear-Admiral) to the Royal Navy, 1914-19; Emeritus Physician, St. George's Hospital, London; Physician in Ordinary to H. M., the King; Regius Professor of Physic, University of Cambridge, Cambridge, England; *Physician-in-chief pro tem.*, *P. B. B. H.*, March 25 to April 1, 1928.

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

VISITING PHYSICIANS AND SURGEONS

General Hosp.; *Surgeon-in-chief pro tem.*, P. B. B. H., March 7 to March 16, 1926. Died Dec. 25, 1928.

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.

PROF. DAVID PERCIVAL DALBRECK WILKIE

O.B.E., M.D., M.Ch., F.R.C.S. (Edin. and Eng.); Professor of Surgery, University of Edinburgh; Surgeon to the Edinburgh Royal Infirmary; *Surgeon-in-chief pro tem.*, October 8 to October 11, 1929.

DR. ROLLIN TURNER WOODYATT

B.S., Univ. of Chicago, 1896; 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.

Traveling Fellows in Surgery

| | |
|-------------------------|------|
| LEO M. DAVIDOFF | 1926 |
| HARLAN F. NEWTON | 1927 |
| FRANC D. INGRAHAM | 1928 |

George Gorham Peters Traveling Fellow

| | |
|------------------------|------|
| ARTHUR J. McLEAN | 1929 |
| ERIC OLDBERG | 1930 |

Voluntary Graduate Assistants

ARMITAGE, GEORGE

M.B., Ch.B., Leeds, 1921; Surg. Tutor, Univ. of Leeds; Rockefeller Foundation Fellow, 1929-30; *P. B. B. H., Surg., Nov. 1929-Nov. 1930*; Leeds, England.

BAGDASAR, DIMITRI

M.D., Bucharest, 1922; Physician-in-chief, Hospital of Nervous Diseases, Jimbolia; *P. B. B. H., Surg., Oct. 1927-Oct. 1928*; Jimbolia, Roumania.

BELL, DONALD C.

M.D., Cornell, 1920; *P. B. B. H., Surg., Nov. 11, 1930-Jan. 10, 1931*; Cleveland, Ohio.

BREMER, FREDERIC

M.D., Univ. of Brussels; C.R.B., Foundation Fellow, 1920; *P. B. B. H., Surg., Oct., 1920-April, 1921*.

BRILL, I. C.

M.D., Columbia, 1914; *P. B. B. H., Med., 1923*; Asst. Clin. Prof. Med., Univ. of Oregon.

BRUGSCH, HEINRICH

M.D., Berlin, 1927; Fellow of Akademische and Austausch-Deuts, *P. B. B. H., Med. 1929*.

COURVILLE, CYRIL B.

M.D., College Med. Evangelists, 1925; Interne, Los Angeles Gen. Hosp.; *P. B. B. H., Surg., Aug., 1927-Jan., 1928*; Loma Linda, California.

DECAMPS, NESTOR

M.D., Brussels, 1925; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med., 1926*.

DECOPPET, GASTON

M.D., Univ. of Berne, 1924; Chef de clinique, Prof. de Quervain's service, Berne; Rockefeller Foundation Fellow, 1929-30; *P. B. B. H., Surg., Sept., 1929-Aug., 1930*; Inselspital, Berne, Switzerland.

DEERY, EDWIN M.

M.D., Harv., 1926; *P. B. B. H., Surg., Nov., 1928-Sept., 1929*; College of Physicians and Surgeons, New York.

FINCHER, JR., EDGAR F.

M.D., Emory, 1925; Interne, Piedmont Hosp., 1925-26; *P. B. B. H., Surg., June-Sept., 1926*; Atlanta, Georgia.

PETER BENT BRIGHAM HOSPITAL

FRIED, BORIS M.

M.D., Imperial Nicholas Univ., Saratov, 1914; *P. B. B. H., Surg.*

GAIRDNER, ALAN C.

B.Ch., Oxon, 1926; F.R.C.S., Eng., 1928; *P. B. B. H., Surg., Nov., 1928-Jan., 1929*; London Hosp., London, England.

GRANT, FRANCIS C.

M.D., Univ. of Penn., 1919; *P. B. B. H., Surg., Oct., 1925-May, 1926*; Philadelphia, Pennsylvania.

HALPENNY, ATTRACTA

L.R.C.S., Royal Coll. Phys. and Surg., Dublin; Purefoy Mem. Scholar, Coll. of Surgs., Dublin; *P. B. B. H., Surg., Sept.-Dec., 1929*; Dublin, Ireland.

HOLLAND, CLYDE

M.S., C.M., Dalhousie, 1923; Fellow of Rockefeller Foundation; *P. B. B. H., Med., 1929*.

ISAACS, RAPHAEL

M.D., Cincinnati, 1918; *P. B. B. H., Med., 1922*; Asst. Prof. of Medicine, Univ. of Michigan.

KINDALL, LLOYD E.

M.D., Univ. of Colorado, 1913; *P. B. B. H., Urol., Jan.-June, 1926*; Oakland, California.

KREDEL, FREDERICK E.

M.D., Johns Hopkins, 1929; *P. B. B. H., Surg., June 15-Sept. 15, 1927*; and *June 15-Sept. 15, 1928*.

KUBIE, LAWRENCE S.

M.D., Johns Hopkins, 1921; *P. B. B. H., Surg., Sept.-Oct., 1927*; New York City.

LEE, FERDINAND C.

M.D., Johns Hopkins, 1919; Surg. Interne, Sept., 1919-Sept., 1920; *P. B. B. H., Surg., June-Sept., 1923*; Baltimore, Maryland.

LEHMAN, WALTER

Prof. Surg., Chirurgische Univ. Clin., Göttingen, Germany; *P. B. B. H., Surg., Jan.-April, 1926*.

LYNCH, RALPH

M.D., Pennsylvania, 1923; *P. B. B. H., Med., 1927*; Pittsburgh, Pennsylvania.

MATTON, MARCEL

M.D., Ghent, 1929; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med., 1924*.

MEACHEN, JOHN W.

M.D., Harv., 1922; *P. B. B. H., Roentgenology, 1924*; Roentgenologist, Huntington Memorial and Palmer Memorial Hospitals.

VOLUNTARY GRADUATE ASSISTANTS

MORELLE, JEAN

M.D., Louvain Univ., 1924; Asst. in Surg., Louvain; C.R.B. Educational Foundation Fellowship, 1925-26; *P. B. B. H., Surg., Oct., 1925-June, 1926*; Louvain, Belgium.

MUANGAM, P.

P. B. B. H., Roentgenology, 1927. Sent by Government of Siam for study.

ODY, FRANCOIS

M.D., Univ. of Geneva, 1922; Chef du second service de chirurgie (au concours) de l'Hopital Cantonal de Geneve; Rockefeller Foundation Fellow, 1930-31; *P. B. B. H., Surg., 1930-31.*

OLJENICK, IGNATIUS

Med. Docts. Arts, Univ. of Amsterdam, 1911; Rockefeller Foundation Fellow, 1927-29; *P. B. B. H., Surg., Mar., 1927-Mar., 1929*; Wilhelmina Gasthuis, Amsterdam.

PETIT-DUTAILLIS, DANIEL

Interne and Chef de clinique, Hospitaux de Paris; *P. B. B. H., Surg., April 24-June 7, 1930.*

REYNOLDS, LLOYD R.

M.D., Stanford, 1919; Surg. Res., Stanford Hosp., 2 yrs.; *P. B. B. H., Surg., Oct., 1923-Jan., 1924.*

SCHALTENBRAND, GEORG

M.D., Univ. of Munich, 1923; Rockefeller Foundation Fellow, 1925-27; *P. B. B. H., Surg., Jan., 1926-March, 1927.*

SCHONBAUER, LEOPOLD

M.D., Univ. of Prague, 1914; Assoc. with Prof. Eiselberg, Vienna, 5 years; *P. B. B. H., Surg., Nov., 1924-Jan., 1925.*

SCRIVER, WALTER DE M.

M.D., McGill, 1921; Fellow of National Research Council; *P. B. B. H., Med., 1925.*

SHANKS, MAJOR

P. B. B. H., Pathology, 1927; Indian Medical Service.

STAMMERS, F. A. R.

M.B., Ch.B., Univ. of Birmingham, 1923; M.R.C.S., L.R.C.P., England, 1925; Rockefeller Foundation Fellow, 1928-29; *P. B. B. H., Surg., Oct.-Nov., 1929*; Asst. Surgeon, Birmingham General Hospital, Birmingham, England.

STARR, M. P.

M.D., Rush, 1922; *P. B. B. H., Med., 1923*; Asst. Prof. of Med., Northwestern Univ.

VAN DESSEL, ARTHUR

M.D., Univ. of Louvain, 1920; C.R.B., Educational Foundation Fellowship; *P. B. B. H., Surg., Feb., 1925-July, 1925.*

PETER BENT BRIGHAM HOSPITAL

ZEITLIN, ALEXANDER

M.D., Univ. of Warsaw, 1917; Assoc. Surg., Surgical Clin., North
Caucasian Univ., Rostov; *P. B. B. H., Surg., Dec., 1930-Jan., 1931.*

ZUBIRAN, SALVADOR

M.D., Univ. of Mexico, 1923; *P. B. B. H., Med., 1923*; Prof. Public
Health, Univ. of Mexico.

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

ADAMS, LEYLAND J.

M.D., C.M., McGill, 1927; Interne in Pathol., Montreal Gen. Hosp., 1927-28; Interne in Med., *ibid.*, 1928-29; Interne in Surg., *ibid.*, 1929-30; *Asst. Res. Phys.*, P. B. B. H.

AUB, JOSEPH C.

A.B., Harv.; M.D., *ibid.*, 1916; Physician-in-Chief, Huntington Memorial Hospital; Assoc. Prof. of Med., Harv.; *Sr. Assoc. in Med.*, P. B. B. H.

BISHOP, COURTNEY CRAIG

A.B., Yale, 1926; M.D., *ibid.*, 1930; *Surg. H. O.*, P. B. B. H.

BLAIN, DANIEL

B.A., Wash. and Lee Univ., 1921; M.D., Vanderbilt, 1929; *Med. H. O.*, P. B. B. H.

BLOTNER, HARRY H.

A.M., Harv., 1931; 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.; *Jr. Assoc. in Med.*, P. B. B. H.

BOWIE, MORRIS A.

A.B., Univ. of Col., 1925; M.D., Harv., 1929; *Med. H. O.*, P. B. B. H., July 1, 1929-Nov. 1, 1930.

BOYD, WALTER WILLARD

E.E., Univ. of Va., 1920; M.S., M. I. T., 1922; M.D., Harv., 1928; *Surg. H. O.*, P. B. B. H., Oct. 1, 1928-Feb. 1, 1930; House Phys., B. L. I., 1930-31; *Asst. Res. Surg.*, P. B. B. H.

BOYES, JOSEPH H.

A.B., Stanford, 1926; M.D., *ibid.*, 1930; H. O., Pathol., M. G. H., July, 1929-June, 1930; *Surg. H. O.*, 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;

PETER BENT BRIGHAM HOSPITAL

Surg. H. O., P. B. B. H., June 15, 1927-Nov. 1, 1928; Jr. Assoc. in Surg., ibid., Nov. 1, 1928-Nov. 1, 1929; Asst. Res. Surg., ibid., Nov. 1, 1929-April 1, 1930; Asst. Surg., St. Francis Hosp., Hartford, Connecticut; in practice, Hartford, Connecticut.

BUHRMESTER, JR., HARRY C.

M.D., Harv., 1930; H. O., Church Home and Infirmary, Baltimore, Maryland, 1930-31; *Med. H. O., P. B. B. H.*

BUTLER, STUYVESANT

Ph.B., Yale, 1924; M.D., Univ. of Chicago, 1928; Interne, Presbyterian Hosp., Chicago, Ill.; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1929-May 1, 1930; in practice, Clinic of Dr. Ralph C. Brown, Chicago.*

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.*, 1924-25; 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; Asst. Res. Surg., P. B. B. H., Sept. 5-Sept. 19, 1930.*

CANNON, WALTER BRADFORD

A.B., Harv., 1896; A.M., *ibid.*, 1897; M.D., *ibid.*, 1900; S.D., Yale, 1923; L.L.D., Wittenberg, 1927, Boston University, 1929; Doctor, Liege, 1930; Doctor, Strasbourg, 1930; 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; Assoc. Mem., Société Belge de Biologie and Société de Psychologie, Paris, 1930; Foreign Honorary Fellow, Royal Society Edinburgh, 1930; Exchange Professor for France, 1929-30; *Consult. Physiol., P. B. B. H.*

CASHMAN, CHARLES J.

D.M.D., Harv., 1928; *Dental Interne, P. B. B. H.*

CASTLE, EDWARD B.

B.S., Univ. of Mich., 1927; M.D., *ibid.*, 1929; *Surg. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930.*

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.

REGISTER OF PRESENT MEMBERS OF THE STAFF

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; Sc.D. (Hon.) Jefferson, 1928; 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., since 1908; *Physician-in-Chief, P. B. B. H.*

CLAY, CHARLES L.

B.S., Dart., 1919; M.D., Columbia Univ., Coll. of Phys. and Surgs., 1921; Interne, Lawrence General Hosp., 1921-22; Member, Med. Staff, Danvers State Hosp., 1922-28; *2nd Asst. Supt., P. B. B. H., Jan. 15, 1928-July 1, 1930; 1st Asst. Supt., ibid.*

COCHRAN, H. WALTON

B.A., Univ. of Texas, 1924; M.D., Johns Hopkins, 1928; *Surg. H. O., P. B. B. H., Jan. 1, 1929-May 1, 1930; Jr. Fellow in Surg., Presbyterian Hosp., New York.*

COX, WILLIAM V.

A.B., Univ. of Mich., 1921; M.D., Harv., 1925; H. O. and Asst. Res., Lakeside Hosp.; Crile Fellow in Surg., Lakeside Hosp.; *Asst. Res. Surg., P. B. B. H., July 15, 1929-Jan. 6, 1930; Res. Surg., Lakeside Hosp.*

CUSHING, HARVEY

A.B., Yale, 1891; A.M. and M.D., Harv., 1895; House Pupil, M. G. H., 1895-96; Res. Surg., J. H. H., 1896-1900; successively Asst., Instr. and Assoc. Prof. in Surg., J. H. M. S., 1898-1912; Hon. F.R.C.S., London, 1913, Ireland, 1918, and Edinburgh, 1927; Hon. A.M., Yale, 1913; D.Sc., Washington, 1915, and Yale, 1919; LL.D., Western Reserve, 1919, Cambridge, 1920, Glasgow, 1927, Edinburgh, 1927; Litt.D., Jefferson, 1926, Dartmouth, 1929; Dr. (*Hon. caus.*), Strasbourg, 1929, Brussels, 1930; Am. Acad. of Arts and Sciences, 1914; Nat. Acad. Sciences, 1917; Am. Phil. Soc., 1930; Director U. S. A. Base Hosp. No. 5, 1916-1919; Col., M. C., U. S. A.; Companion of the Bath; D.S.M.; Offic. Legion d'Honneur; Stud., St. Bartholomew's Hosp., 1922; Mickle Fellow, Univ.

PETER BENT BRIGHAM HOSPITAL

of Toronto, 1922; Cameron Prize, Univ. of Edinburgh, 1924; Macewen Lecturer, Univ. of Glasgow, 1927; Lister medalist, Royal Coll. Surg. (London), 1930; Moseley Prof. of Surg., Harv., 1912-; *Surgeon-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.*; Prof. in Clin. Surg., Tufts; Surg.-in-Chief, Boston Disp.; Visiting Surg., Cambridge Hosp.; *Assoc. in Surg., P. B. B. H.*

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

DERICK, CLIFFORD L.

M.D., McGill Univ., 1918; H. O., Montreal Gen. Hosp., 1919-22; Fellow, Nat. Research Council, 1922-23; *Asst. Res. Phys., P. B. B. H., 1923-24*; Asst. in Med. and Research Fellow in Bio-Chemistry, Harv., 1923-24; Asst. Res. Phys., Rockefeller Hosp., N. Y., 1924-28; Asst. Prof. Med., Harv.; *Physician, P. B. B. H.*

DIACK, SAMUEL

B.S., Chem. Engineering, Calif. Inst. of Tech., 1925; M.S., Physiol. Chem., Univ. of Mich., 1926; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H.*

DIAL, DONALD EMERY *

B.A., Yale, 1925; M.D., *ibid.*, 1928; Pathol. Interne, New Haven Hosp., 1928-29; Fellow in Plastic Surg., Johns Hopkins Hosp., 1929-30; *Surg. H. O., P. B. B. H.*

DOTY, EDWIN J.

M.D., Univ. of Mich., 1929; *Med. H. O., P. B. B. H.*

DOZIER, PAUL C.

A.B., Univ. of Calif., 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H., Nov. 1, 1929-March 1, 1931.*

ECKELS, JOHN C.

M.D., Harv., 1927; *Asst. Res. Surg., P. B. B. H.*

REGISTER OF PRESENT MEMBERS OF THE STAFF

EGLOFF, WILLIAM C.

S.B., Univ. of Chicago, 1923; M.D., *ibid.*, 1927; Interne, St. Luke's Hosp., Chicago, 1926-28; Med. service, Billings Memorial Hosp., Univ. of Chicago, Jan.-July, 1928; *Jr. Assoc. in Med.*, P. B. B. H.

EISENHARDT, LOUISE

M.D., Tufts, 1925; Interne, N. E. Hosp. for Women and Children, 1925-26; Attend. Phys., *ibid.*, 1926-29; Consult. Neurol., *ibid.*; *Jr. Assoc. in Neurol. Surg.*, 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.*

EPPINGER, EUGENE CHARLES

A.B., Williams, 1926; M.D., Harv., 1930; *Med. H. O.*, P. B. B. H.

EVANS, WILLIAM

A.B., Williams, 1926; M.D., Johns Hopkins, 1930; *Med. H. O.*, P. B. B. H.

FARNSWORTH, RICHARD WIGGIN

A.B., Univ. of Wis., 1924; M.D., Harv., 1928; *Surg. H. O.*, P. B. B. H., April 1, 1929-Aug. 1, 1930.

FARRELL, JAMES IRVING

A.B., Hamilton, 1925; M.D., Harv., 1929; *Med. H. O.*, P. B. B. H., July 1, 1929-Nov. 1, 1930.

FEENEY, NEIL

B.A., M.D., McGill Med. School, 1927; Interne, Montreal Gen. Hosp.; *Asst. Res. Phys.*, P. B. B. H., Sept. 1, 1929-Aug. 1, 1930; in practice, Montreal.

FENDER, FREDERICK ALLEN

A.B., Univ. of Calif., 1924; M.D., Harv., 1929; *Surg. H. O.*, P. B. B. H., Oct. 1, 1929-Feb. 1, 1931.

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.

PETER BENT BRIGHAM HOSPITAL

FLEMING, ROBERT

A.B., Trinity, 1924; A.M., Harv., 1926; M.D., *ibid.*, 1930; *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., Nov. 1, 1927-March 1, 1929*; Asst. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H.*; in practice, Boston.

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, 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.*

FREEMAN, ALEX R.

M.D., Emory, 1929; Interne, Wesley Mem. Hosp., Atlanta, Georgia, 1929-30; *Asst. Res. Phys., P. B. B. H.*

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., 1922-28; Assoc. Clin. 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., Sept. 1, 1927-Sept. 1, 1929*; *Res. Phys., ibid.*

GLENN, FRANK N.

M.D., Washington Univ., 1927; Med. Service, Strong Mem. Hosp., July, 1927-July, 1928; *Surg. H. O., P. B. B. H., Jan. 1, 1929-May 1, 1930*; *Asst. Res. Surg., ibid.*

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.*

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GRAY, CHARLES M.

A.B., Ohio Wesleyan Univ., 1926; M.D., Johns Hopkins, 1930;
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GREEN, WILLIAM T.

A.B., Indiana Univ., 1921; A.M., *ibid.*, 1922; M.D., *ibid.*, 1925;
Instr. in Anat., Indiana Univ., 1921-22; Interne, Indiana Univ.
Hosp.; Asst. Res. Surg., Henry Ford Hospital, Detroit; *Surg.*
H. O., P. B. B. H., Aug. 1, 1929-Feb. 1, 1930; Asst. Res. Surg.,
ibid., Feb. 1, 1930-Oct. 1, 1930.

HAHN, RICHARD G.

B.S., Lafayette; M.D., Harv., 1928; *Med. H. O., P. B. B. H., March*
1, 1929-July 1, 1930; Asst. Res. Phys., ibid.

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.*

HARE, HUGH F.

M.D., Harv., 1928; Interne, Univ. Hosp., Ann Arbor, Michigan,
1928-30; *H. O., Roent., P. B. B. H.*

HARRISON, JR., WILLIAM GROCE

A.B., Univ. of Mich., 1924; M.D., Johns Hopkins, 1928; *Med. H. O.,*
P. B. B. H., March 1, 1929-July 1, 1930.

HARVEY, EARLE A.

B.S., Univ. of Wash., 1925; M.D., Harv., 1929; *Med. H. O., P. B.*
B. H., Nov. 1, 1929-March 1, 1931.

HASS, GEORGE MARVIN

M.D., Harv., 1929; *Pathol. H. O., P. B. B. H., Jan. 1, 1930-Jan. 1,*
1931.

HENDERSON, WILLIAM ROBERT

M.B., Ch.B., Edinburgh, 1926; House Surg., Royal Infirmary,
Edinburgh, 1926-27; House Surg., Sick Children's Hosp., Edin-
burgh, 1927; Rockefeller Fellow, British Research Council; *Asst.*
Res. Surg., P. B. B. H.

HERTIG, ARTHUR T.

B.S., Univ. of Minn., 1928; M.D., Harv., 1930; *Pathol. H. O., P. B.*
B. H.

HOEN, THOMAS I.

A.B., Johns Hopkins, 1924; M.D., *ibid.*, 1928; Fellow in Surg.,
ibid.; Surg. H. O., P. B. B. H., April 1, 1929-Aug. 1, 1930; Asst.
Res. Surg., ibid.

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.

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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; Asst. Prof. 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.*

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.; Secretary, Harvard Cancer Comm.; Administrator, Collis P. Huntington Mem. Hosp. (Harv.); *Supt., P. B. B. H.*

HOYT, LYMAN HOWARD

B.S., Univ. of Iowa; M.D., *ibid.*, 1925; Med. Interne, Univ. Hosp., Iowa City, 1925-26; Asst. in Med., Harv.; *Asst. Res. Phys., P. B. B. H., Aug. 1, 1926-Nov. 1, 1927*; *Jr. Assoc. in Med., ibid.*

JACKSON, HOWARD L.

M.D., Tufts, 1918; Interne, Springfield Hosp.; in practice, Springfield, Mass.; *H. O., Roent., P. B. B. H., Oct. 1, 1929-July 1, 1930.*

KENDALL, LEE GORDON

A.B., Harv., 1925; M.D., *ibid.*, 1930; *Surg. H. O., P. B. B. H.*

KLUMPP, THEODORE G.

B.S., Princeton, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., March 1, 1929-July 1, 1930.*

LAWRENCE, JOHN H.

M.D., Harv., 1930; *Surg. H. O., P. B. B. H.*

LEGGE, ROBERT F.

M.D., C.M., McGill, 1930; *Surg. H. O., 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., Rocke-

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feller Inst. Hosp., New York, 1916-17; Capt., M. C., U. S. Army, 1917-19; Instr. in Med., Harv., 1919-30; Asst. Prof. of Med., Harv.; Consult. Phys., Boston Psychopathic Hosp., 1921-24; Phys. to Boston Disp., 1924-26; Visit Phys., Beth Israel Hosp.; *Assoc. in Med., P. B. B. H., Aug., 1919-March, 1928; Sr. Assoc. in Med., ibid.*

LIGHT, RICHARD U.

Ph.B., Yale, 1924; M.D., Univ. of Mich., 1928; *Surg. H. O., P. B. B. H., July 1, 1929-Nov. 1, 1930; Arthur Tracy Cabot Fellow, Harv.; Jr. Assoc. in Surg., P. B. B. H.*

MACDONALD, DONALD

B.A., Johns Hopkins, 1922; M.D., *ibid.*, 1926; *Jr. Assoc. in Otolaryngology, P. B. B. H.*

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.*

MAHONEY, WILLIAM DE G.

A.B., Holy Cross, 1925; M.D., Harv., 1929; *Surg. H. O., P. B. B. H., Oct. 1, 1929-Feb. 1, 1931; Asst. Res. Surg., ibid.*

MARKS, JOSEPH H.

B.A., Univ. of Wis., 1925; M.A., *ibid.*, 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H.*

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; Arthur Tracy Cabot Fellow, Harv., 1929-30; Assoc. in Surg., P. B. B. H., Jan.-April, 1930.*

MCGRATH, ROBERT F.

M.D., Northwestern, 1928; *Interne, St. Luke's Hosp., Chicago; Jr. Assoc. in Med., P. B. B. H., Sept. 15, 1929-May 1, 1930; Asst. Res. Phys., ibid., May 1, 1930-Aug. 1, 1930.*

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., Sept., 1927-June, 1929; Act. Res. Surg., ibid., June-Sept., 1929; George Gorham Peters Traveling Fellow, 1929-30; Res. Surg., P. B. B. H.*

MCLESTER, JAMES BOWTON

A.B., Univ. of Ala., 1926; M.D., Harv., 1930; *Med. H. O., P. B. B. H.*

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MEAGHER, RICHARD

Ph.B., Yale, 1921; M.D., Cornell, 1927; *Pathol. H. O., P. B. B. H.*, Sept. 1, 1927-Jan. 1, 1928; *Surg. H. O., ibid.*, April 1, 1928-Aug. 1, 1929; *Asst. Res. Surg., ibid.*, Aug. 1, 1929-May 1, 1930; *Jr. Assoc. in Surg., ibid.*, May-Oct., 1930; *Asst. Res. Surg., ibid.*

MIDDLETON, RICHARD

M.D., Harv., 1927; Rotating Internship, Philadelphia; Res. Surg., Memorial Hosp., Worcester; *Asst. Res. Surg., P. B. B. H.*

MINOT, GEORGE R.

A.B., Harv., 1908; M.D., *ibid.*, 1912; S.D., Harv., 1928; 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., 1918-27; Clin. Prof. of Med., *ibid.*, 1927-28; Phys. and Chief of Med. Labs., Huntington Mem. Hosp.; Assoc. in Med., P. B. B. H., Feb. 12, 1925-March 8, 1928; Member, Board of Consultation, M. G. H.; Director, Thorndike Mem. Lab., Second and Fourth Medical Services (Harvard) Boston City Hospital; Visit. Phys., *ibid.*; Consult. Phys., Beth Israel Hosp.; Prof. of Med., Harv.; Consult. Phys., P. B. B. H.

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., 1926-28; Instr. in Med., *ibid.*; *Jr. Assoc. in Med., P. B. B. H.*

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; Asst. in Med., Harv., 1924-28; Instr. in Med., *ibid.*; *Jr. Assoc. in Med., P. B. B. H.*, July 10, 1923-May 10, 1926; *Assoc. in Med., ibid.*

MYERS, GORDON

A.B., Univ. of Mich., 1924; M.D., *ibid.*, 1927; Interne; Asst. Res. in Med., and Res., Receiving Hosp., Detroit, 1927-30; *Asst. Res. Phys., P. B. B. H.*

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,

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Switzerland, 1923-24; Instr. in Surg., Harv., 1924-28; Faculty Instr. in Surg., *ibid.*; *Assoc. in Surg.*, P. B. B. H., 1924-28; *Sr. Assoc. in Surg.*, *ibid.*

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., 1924-27; Workman Fellow in Physiol., *ibid.*, 1926-27; *Moseley and P. B. B. H. Travel. Fellow in Surg.*, 1927-28; Asst., first Med. Clin., Hamburg-Eppendorf, Germany, 1927-28; Austin Teach. Fellow in Surg., Harv.; *Jr. Assoc. in Surg.*, P. B. B. H.

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.; Asst. Prof. of Med., *ibid.*; *Sr. Assoc. in Med.*, P. B. B. H.

OLDBERG, ERIC

B.S., Northwestern, 1923; M.S., *ibid.*, 1926; M.D., *ibid.*, 1927; Ph.D., *ibid.*, 1928; Asst. in Physiol. and Pharmacol., *ibid.*, 1923-27; Instr. in Physiol., *ibid.*, 1927-28; Elizabeth J. Ward Fellow in Physiol., *ibid.*, 1928; *Surg. H. O.*, P. B. B. H., Jan. 1, 1928-April, 1929; *Asst. Res. Surg.*, P. B. B. H., April 1, 1929-Sept. 1, 1930; George Gorham Peters Traveling Fellow.

OSGOOD, RUDOLF

S.B., Harv., 1924; M.D., Univ. of Chicago, 1929; *Pathol. H. O.*, P. B. B. H., July 1, 1929-July 1, 1930.

PICKWICK, ERSKINE R.

M.D., Tufts, 1924; Interne, Newton Hosp., 1924-25; Asst. Surg., Hood Rubber Co. (Hosp.), Watertown, Mass., 1925-27; Asst. Res. (Exec.) Worcester City Hosp., 1927-29; *H. O. Roent.*, P. B. B. H., July 1, 1929-July 1, 1930; *Asst. Roent.*, *ibid.*

POKORNY, NORMAN A.

A.B., Marquette Univ., 1925; M.D., Johns Hopkins, 1929; *Med. H. O.*, P. B. B. H.

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., Sept., 1927-Oct., 1928; *Res. Surg.*, *ibid.*, Oct. 15, 1928-July 1,

PETER BENT BRIGHAM HOSPITAL

1930; Assoc. Surg., Mary Imogene Bassett Hospital, Cooperstown, New York.

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.*

RAY, BRONSON SANDS

B.S., Franklin College, 1924; M.D., Northwestern, 1928; Interne, Passavant Memorial Hospital, Chicago, Ill., and Wesley Memorial Hosp., Atlanta, Ga., 1928-29; *Surg. H. O., P. B. B. H.*

RENNIE, THOMAS A. C.

B.S., Univ. of Pittsburgh, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., Nov. 1, 1928-March 1, 1930.*

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., June 12, 1924-Oct. 9, 1930; Consultant in Otolaryngology, ibid.*

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; Phys., N. E. Deaconess Hosp.; Assoc. in Med., P. B. B. H., April 13, 1922-Dec. 31, 1930.*

SALLEY, S. MARION

B.S., Emory Univ., Atlanta, 1924; M.D., *ibid.*, 1928; Interne, Grady Hosp., July 1, 1928-July 1, 1929; *Asst. Res. Phys., 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., March 1, 1927-July 1, 1928; Asst. Res. Surg., ibid., July 1, 1928-July 1, 1930; Res. Surg., ibid., July 1, 1930-Oct. 1, 1930.*

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., July 1, 1927-July 1, 1928; Res. Pathol., Children's Hosp., 1928-29; Res. Pathol., P. B. B. H.*

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A.B., Amherst, 1924; M.D., Harv., 1928; *Med. H. O.*, *P. B. B. H.*, Nov. 1, 1928-March 1, 1930.

SHAMBAUGH, PHILIP

A.B., Amherst, 1926; M.D., Harv., 1930; *Med. H. O.*, *P. B. B. H.*

SHELBURNE, SAMUEL A.

B.A., Rice Inst., Houston, Texas; M.D., Univ. of Pa., 1928; H. O., Univ. Hosp., Phil.; Lab. work, Shreveport Charity Hosp.; *Asst. Res. Phys.*, *P. B. B. H.*, July 1, 1929-July 1, 1930.

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.*

STEEL, SELWYN

M.D., Yale, 1930; *Med. H. O.*, *P. B. B. H.*

STRAYER, LUTHER M.

A.B., Princeton, 1926; M.D., Harv., 1930; *Surg. H. O.*, *P. B. B. H.*

STROCK, MOSES SOLOMON

D.M.D., Harv., 1923; Anesthetist, Forsyth Dental Infirmary, 1925-30; Instr. in Extracting and Oral Surg., Harv.; Asst. Dental Surg., M. G. H.; *Dental Surg.*, *P. B. B. H.*

THOMPSON, KENNETH WADE

A.B., Leland Stanford, 1926; M.D., Harv., 1929; *Surg. H. O.*, *P. B. B. H.*

THURMON, FRANCIS M.

B.S., Illinois Coll., 1922; M.D., Harv., 1926; Interne, Wesley Mem. Hosp., 1926-28; Fellow in Med., Harv., 1928-29; *Asst. Res. Phys.*, *P. B. B. H.*, June 15, 1929-Sept. 1, 1930.

TOLLMAN, JAMES PERRY

B.S., Univ. of Neb., 1927; M.D., *ibid.*, 1929; *Med. H. O.*, *P. B. B. H.*, July 1, 1929-Nov. 1, 1930; *Pathol. H. O.*, *ibid.*

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; Roent., Huntington Mem. Hosp., 1928; *Assoc. in Roent.*, *P. B. B. H.*

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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.**

WILHELM, NORBERT A.

M.D., St. Louis Univ. School of Med., 1925; Interne, Mercy Hosp., Toledo, Ohio, 1925-26; Chief Res. Phys., Lucas Co. Hosp., Toledo, Ohio, 1926-27; Asst. Plantation Surg., Estates of Central Aguirre, Porto Rico, 1927-29; Asst., Div. of Neuropsychiatry, Henry Ford Hosp., 1929-30; *2nd Asst. Supt., P. B. B. H.*

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; in charge of Typhus Research Hosp., Poland, Jan.-Aug., 1920; 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.; *Pathologist, P. B. B. H.*

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.*

REGISTER OF PRESENT MEMBERS OF THE STAFF

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, 1927-28; *Second Asst. Supt., P. B. B. H., Dec. 1, 1924-Dec. 1, 1927; First Asst. Supt., ibid., Dec. 1, 1927-July 1, 1930*; Supt., Genesee Hosp., Rochester, New York.

YOUNG, RICHARD HART

B.S., Univ. of Chicago, 1926; M.A., Univ. of Nebraska, 1930; M.D., *ibid.*, 1930; *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., 1913-23; Bacteriol., Presbyterian Hosp., 1913-23; 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; Assoc. Phys., M. G. H.; Asst. in Med., Harv., 1923-29; Instr. 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., and St. Louis Maternity Hosp., St. Louis.

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; Teaching Fellow in Med., Harv.; *Res. Phys.*, *P. B. B. H.*, Sept. 1, 1927-Sept. 1, 1929; Asst. in Kaiser Wilhelm Inst. für Biologie, Berlin, Prof. Warburg, Oct., 1929-April, 1930; Asst. in Med. Clin., Univ. of Würzburg, Prof. Grafe, May-Aug., 1930; Assoc. in Med., Northwestern Univ. Med. Sch., and Passavant Mem. Hosp., Chicago.

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; 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

REGISTER OF FORMER MEMBERS OF THE STAFF

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; Comm. of Health, Cattaraugus Co. Dept. of Health, Olean, New York.

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. Sinai 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., etc.; Assoc in Exper. Neurol., Johns Hopkins; Asst. Psychiatrist, J. H. H., Baltimore; Consult. Neuro-Surgeon, U. S. P. H. S.; in practice, Baltimore.

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., 1926-28*; Prof. Surg., Univ. of Chicago.

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*; Asst. Prof. and Instr. in Med., Strong Mem. Hosp., Rochester, N. Y.; Phys., Rochester Gen. Hosp., Rochester, N. Y.

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. and Allergy, Univ. of Oklahoma Med. School; Consult. Phys., St. Anthony's Hosp. and State Univ. Hosp., Oklahoma City; in practice, Oklahoma City, Oklahoma.

BARKER, M. HERBERT

B.S., Univ. of Chicago, 1923; M.S., Northwestern Univ., 1930; M.D., Rush Med. College, 1925; H. O., Wesley Memorial Hosp.,

PETER BENT BRIGHAM HOSPITAL

1925-27; *Med. H. O., P. B. B. H., Jan. 1-March 1, 1927; Asst. Res. Phys., ibid., July 1, 1927-July 1, 1929; Res. Phys., Passavant Mem. Hosp., Chicago.*

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; P. G. course, Orth. Surg., Children's Hosp. and M. G. H., Jan., 1928-Sept., 1929; Asst. Orthopedic Surg., M. G. H.; Asst. Surg., N. E. Peabody Home for Crippled Children; Asst. in Orthopedic Surg., Harv.*

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., 1927-28; Staff member, Mercy and Scripps Memorial Hospitals; Member, Visiting and Consult. Staff, San Diego Co. Hosp.; Lect. in Prev. Med., State Teachers' Coll., San Diego, Calif.; Chairman, Med. Section and Member, Exec. Comm., Mercy Hosp.; in practice, San Diego, Calif.*

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., 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., 1927-28; Assoc. Surg., ibid.; Asst. Prof. Surg., Western Reserve Univ. Sch. of Med.*

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; 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.,*

REGISTER OF FORMER MEMBERS OF THE STAFF

U. S. Army; Battalion Med. Officer to 16th Devons Infantry Reg., (British) 1918; Awarded British Military Cross, 1918; Asst. Visit. Surg., Richland Co. Hosp.; Chief Surg., South Carolina State Hosp.; Attend. Surg., Newberry Co. Hosp.; Assoc. Staff, Marlboro Co. Hosp.; in practice, Columbia, S. C.

BENNETT, GRANVILLE A.

B.S., Univ. of Iowa, 1923; M.D., *ibid.*, 1925; Surg. Interne, Iowa State Univ. Hosp., 1925-26; Clin. Asst. Pathol., Bacteriol. and Surgery, 1926-27; *Res. Pathol., P. B. B. H., Sept. 1, 1927-Sept. 1, 1929*; Instr. of Pathol., Harv.

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.*, 1926-28; Asst. Director, A. O. Smith Diag. Clin., Milwaukee, Wis.

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; Assoc. in Surg., *ibid.*; Attend. Surg., Seaview Hosp.; Adjunct Attend. Surg., Bellevue Hosp.; Consult. Surg., Myack Hosp.; in practice, New York City.

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., Oct. 1, 1926-Sept. 12, 1928*; in practice, Los Angeles, Calif.

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

PETER BENT BRIGHAM HOSPITAL

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; Sterling 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.*, 1927-29; in practice, Norfolk, Nebraska.

BLUMGART, HERRMANN

B.S., Harv., 1917; M.D., *ibid.*, 1921; *Med. H. O., P. B. B. H., July 1, 1921-Nov. 1, 1922*; Moseley Traveling Fellow, Harv., 1923; Asst., Thorndike Mem. Lab., B. C. H., 1924-28; Asst. in Med., Harv., 1924-27; Faculty Instr., *ibid.*, 1927-28; Asst. Prof. of Med., *ibid.*; 1928-29; Assoc. Prof. of Med., *ibid.*; Visit. Phys., Beth Israel Hosp.; Director, Med. Research, *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.

BOOTH, GEORGE

B.S., Allegheny Coll., 1922; M.D., Harv., 1926; *Med. H. O., P. B. B. H., March 1, 1927-July 1, 1928*; in practice, Pittsburgh, Pa.

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.

BOWEN, JOSEPH ANDREW

M.D., Univ. of Cincinnati, 1925; Interne, Cinn. Gen. Hosp., 1925-26; Fellow in Surg., Cleveland Clin., 1926-28; *Asst. Res. Surg., P. B. B. H., July 15, 1928-July 15, 1929.*

REGISTER OF FORMER MEMBERS OF THE STAFF

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; in practice, Evanston and Chicago, Ill.

BOYDEN, HORACE MAYO

A.B., Univ. of Oregon, 1927; M.D., Univ. of Mich., 1930; *Med. H. O., P. B. B. H., Nov. 1, 1930-Feb. 3, 1931. Died Feb. 3, 1931.*

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*; Asst. Pathol., M. G. H.

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

BRIGHAM, ROBERT B.

A.B., Williams, 1924; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., Oct. 1, 1928-June 1, 1929 (resigned)*; H. O., Good Samaritan Hosp., Portland, Ore.

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.*; Asst. Visit. Phys., Cleveland City Hosp., 1923-30; Visit. Phys., *ibid.*

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.,

PETER BENT BRIGHAM HOSPITAL

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., Sept., 1927-July, 1928*; Asst. Prof. Int. Med., Univ. of Mich., July, 1928-July, 1929; Assoc. Prof. Int. Med., *ibid.*

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., 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; 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, 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.; 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., Washington 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.; Director, Central Bureau for Homeless Men, St. Louis; Trustee, A. H. A., 1919-21; President, A. H. A., 1928-29.

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; Grad., London Sch. of Hygiene and Trop. Med., 1928; Instr. in Pathol. and Pharmacodynamics, Univ. of Pa., 1906-07; Pathol., St.

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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; Supt. and internist, Canton Hosp., Canton, China.

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., 1927-28; in practice, Atlanta, Ga.

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

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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. Died January 12, 1929.

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; Bullard Prof. Neuropathol., *ibid.*

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.; *Surg. to Out-Patients, Palmer Mem. Hosp.*; Asst. Surg., Huntington Mem. Hosp.; in practice, Boston.

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, 1921-22; Fellow in Med., Nat. Research Council, 1922-25; Research Fellow, Pathol., Harv., 1923-25; Instr. in Pathol., *ibid.*, 1925; Faculty Instr., *ibid.*, 1926-28; *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); Assoc. Prof. Pathol. and Ex. Head, Dept. of Pathol., Univ. of Calif. Med. Sch.; Prof. Pathol., *ibid.*

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.

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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, 1925-26; Pathol., N. Y. Post Grad. Med. School and Hosp., 1926-28; Director, Bureau of Labs., Dept. of Health, Yonkers, N. Y.; Pathol., St. John's Riverside, Yonkers General, and St. Joseph's Hospitals, Yonkers, New York.

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*; Head, Dept. of Med., Gallinger Municipal Hosp., Washington, D. C.; Assoc. Prof. Med., Georgetown Univ.; Assoc. in Med., George Washington Univ.; Jr. Visit. Phys., Garfield Mem. Hosp.; in practice, Washington, D. C.

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; LL.D., Western Reserve Univ., 1929; Asst. Prof. in Anat., Johns Hopkins, 1890-91; Shattuck Prof. of Pathol. Anatomy, 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; F.A.C.S.; *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.

CRUMP, GEORGE CURTIS

B.S., Dartmouth, 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., April 1, 1928-Aug. 1, 1929*; Asst. Res. Phys., Trudeau San., Saranac Lake, New York.

CRUTCHFIELD, WILLIAM G.

A.B., Univ. of Ky., 1923; M.D., Johns Hopkins, 1927; Surg. Interne, Women's Hosp., Baltimore, Md., 1927-28; *Surg. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929.*

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*;

PETER BENT BRIGHAM HOSPITAL

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.; Asst. Prof. Med., Univ. of Col.; in practice, Denver, Col.

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.; in practice, Boston.

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; Attend., Univ. Hosp., Syracuse, N. Y.; 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. Internæ, Boston Psychopathic Hosp., April, 1921-June, 1922; Pediatric Serv., 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, 1927-28; Attend. Neuro-Surg., Beth Israel Hosp., N. Y.; Asst. Attend. Neuro-Surg., N. Y. Neurol. Inst.; Assoc. Neuro-Surg., Montefiore Hosp., N. Y.; Instr. in Neurol., Coll. of Phys. and Surg., Columbia Univ.; Asst. Attend. Surg., Div. of Neuro-Surg., Fifth Avenue Hosp.

DAVIDSON, LEONARD TOMB

A.B., 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; Assoc., Diseases of Children, Col. Physicians and Surgeons, New York; Asst. Attend. Phys., Babies' Hosp., N. Y.

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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., Pasavant Mem. Hosp., Michael Reese 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.

DAYTON, THEODORE READ

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

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; Assoc. Surg., Mem. Hosp., N. Y.; Assoc. Urol., Fifth Ave. Hosp., N. Y.; Visit. Urol., Reconstruction Hosp., N. Y.; Consult. Urol., Somerset Hosp., N. Y.; in practice, New York.

DEROW, HARRY A.

M.B., Boston Univ., 1926; M.D., *ibid.*, 1927; Pathol. H. O., M. G. H., June, 1927-Jan., 1928; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929*; Teach. Fellow in Med., Harv., 1929-30; Asst. in Med., *ibid.*; Res. Phys., Beth Israel Hosp.

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, Sept., 1925-May, 1930; Supt., Eastern Maine Gen. Hosp., Bangor, Maine.

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.; Asst. Prof. Med., *ibid.*; Assoc. Prof., *ibid.*

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*.

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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; Asst. Prof. 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; Surg., Jordanburn Nerve Hosp., Edinburgh; Lect. in Surg. Diseases of Children, Edinburgh Univ.; Acting Asst. Res. Surg., P. B. B. H., July-Aug., 1929.*

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.; Asst. Dean, Harv. Sch. Public Health; Act. Dean, ibid., May 1, 1930-Feb. 1, 1931.*

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., 1921-26.*

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., 1927-28; Asst. Res. in Roent., ibid., 1928-29; Asst. Director, Dept. of Roent., Neurol. Inst. of New York.*

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.*

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.*

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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; Instructor, Yale, 1921-26; Asst. Clin. Prof. Pediatric Dept., Yale, 1927-31; Director, Div. of Child Hygiene, U. S. Children's Bureau, Washington, D. C., 1924-31.

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.*, 1924-30; Prof. of Surg., Emory Univ. and Surg.-in-chief to University Hospitals; Surg.-in-chief, Henrietta Egleston Hosp. for Children, Atlanta, Georgia.

ENGELBACH, FRIEDRICH

A.B., Illinois College, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929*; Instr. in Dept. of Internal Med., Univ. of Mich.

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; Vice-Chairman, Wis. Radiological Section; Mem., Central Soc. for Clin. Research; in practice, La Crosse, Wis.

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., Second (Cornell) Med. Div., Bellevue Hosp., New York, 1927-29; National Hosp., Queen's Sq., London, England, May-Oct., 1929; Instr., Clin. Med., Cornell Univ.; Clin. Asst. Visit. Phys., Bellevue Hosp.; in practice, New York City.

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, 1927-29; (on leave of absence, 1927); *Surg. Res., St. Vincent Hosp., Worcester, 1927*; *Surg., ibid.*

FALLON, LOUIS

M.D., Univ. of Pa., 1916; F.A.C.S.; *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; Con-

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sult. Surg., National Soldiers' Home, Togus; in practice, Augusta, Maine.

FARBER, SIDNEY

B.S., Univ. of Buffalo, 1923; M.D., Harv., 1927; *H. O., Pathol., P. B. B. H., Jan. 1-Sept. 1, 1927*; Res. Pathol., Children's Hosp., Sept. 1, 1927-Sept. 1, 1928; Guest Asst., Univ. of Munich Pathol. Inst., 1928-29; Instr. in Pathol., Harv.; Asst. Pathol., Children's Hosp.

FARBER, WILLIAM P.

A.B., Univ. of Cal., 1922; M.A., *ibid.*, 1923; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., March 1, 1927-July 1, 1928*; Asst. Phys., U. S. Fed. Penitentiary, Atlanta, Georgia, 1928-29; Asst. in Urol. to Dr. Montague Boyd, Atlanta, Georgia, 1929-30; Res. in Urol., Grady Hosp., Atlanta, Georgia, 1930-31; in practice of Urology, St. Petersburg, Florida.

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.*, 1927-28.

FISHBACK, FRED C.

A.B., Harv., 1919; M.S., Univ. of Minn., 1928; M.D., Harv., 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 Woman's Hosp., New York; New York Lying-In Hosp., 1925; Fellow in Surg., Mayo Clinic, Rochester, Minnesota, 1925-28; Assoc. Prof. Clin. Surg., Georgetown Univ. Med. Sch., 1930-31; in practice, Washington, D. C.

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.

FITZHUGH, GREENE S.

B.S., Univ. of Illinois, 1921; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July 1, 1927-Nov. 1, 1928*; Jr. Assoc. in Med., *ibid.*, Nov. 1, 1928-Sept. 15, 1929; Asst. Res. Phys., Thorndike Lab., B. C. H., 1929-30; in practice, Boston.

FLEMING, HOWARD

A.B., Univ. of Cal., 1914; M.D., *ibid.*, 1917; Med. and Surg. H. O., Univ. of Calif., 8 mos.; Capt., M. C., U. S. Army; Asst. Res. Surg.,

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San Francisco Hosp., 1919; *Asst. Res. Surg., P. B. B. H., Dec. 20, 1919-Feb. 1, 1921*; Asst. Prof., 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*; Assistant Prof. of Urol., Univ. of Minn. Med. Sch.; Chief Urologist, Ancker Hosp., St. Paul, Minnesota; Visit. genitourinary Surg., Miller Hosp.; 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.*

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*; Asst. Res. Surg., Strong Mem. Hosp., Rochester, N. Y., 1927-28; in practice, Atlanta, Ga.

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, 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; Attend. Phys., Waterbury Hosp.; in practice, Waterbury, Conn.

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*; Asst. Res. Surg., New Haven Hosp., 1924-25; Res. Surg., *ibid.*, 1925-27; Instr. Surg., Yale Med. School, 1925-28; Asst. Clin. Prof. Surg., *ibid.*

PETER BENT BRIGHAM HOSPITAL

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.

FRIEDGOOD, HARRY B.

A.B., Univ. of Mich., 1924; M.D., Johns Hopkins, 1928; Act. Interne, Simpson Memorial Inst., Ann Arbor, Mich., Sept., 1927-Feb., 1928; *Med. H. O., P. B. B. H., Nov. 1, 1928-March 1, 1930*; Jr. Instr. in Int. Med., Univ. of Mich., March 1, 1930-July 1, 1930; Instr. in Int. Med., *ibid.*

FULTON, JOHN

B.A., Oxon, 1923; M.A. and Ph.D., *ibid.*, 1925; M.D., Harv., 1927; Rhodes Scholar, Magdalen College, Oxford Univ., 1921-23; *Jr. Assoc. in Neurol, Surg., P. B. B. H., March-June, 1928*; Research Fellow, Magdalen College, Oxford, England, 1928-30; Sterling Prof. of Physiology, Yale Univ. Sch. of Med.

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.

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; Asst. in Surg., Yale Univ. School of Med., and Asst. Res. in Surg., New Haven Hosp., 1928-29; William Harvey Cushing Fellow in Surg., Yale Univ. School of Med.

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 (one year's leave of absence).

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*;

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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; Visit. Phys., Roentgen-ray Dept., Presbyterian Hosp., New York; Assoc. 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; Asst. Prof. Med., Jefferson Med. College; Asst. Phys., O. P. D., Pennsylvania Hosp.; Med. Director and Phys. in charge, Dept. for Diseases of Chest, Jefferson Hosp., Philadelphia; in practice, Philadelphia, Pa.

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.*, 1926-27; in practice, Richmond, Virginia.

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

PETER BENT BRIGHAM HOSPITAL

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, 1921-April, 1923*; Cabot Fellow, Harv., in charge of Lab. of Surg. Research, Sept. 1, 1921-Sept. 1, 1922; Urologist, Carney Hosp.; Genito-Urinary Surg., Pondville State Hosp. for Cancer; Assoc. Consult. Urologist, Brockton Hosp.; Consult. Urol., Quincy and Winchester Hospitals; 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, Inst. for Juv. Research, Chicago, Ill., 1926-29; Assoc. Clin. Prof. Med., Stanford Univ.

GREEN, GEORGE F.

B.S., Univ. of Mich., 1922; M.S. in Surg., Univ. of Minn., 1929; M.D., Univ. of Mich., 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, 1925-29; Staff Surg., St. Joseph's Hosp., South Bend, Ind.; in practice, South Bend, Indiana.

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.

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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.*

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; Asst. Res. Surg., New Haven Hosp.*

HALBERSLEBEN, DAVID L.

A.B., Univ. of Nebraska, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929; in practice, Roslindale, Massachusetts.*

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, 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., 1926-29; Asst. Prof. of Med., *ibid.*; Asst. Phys., Strong Mem. Hosp., Rochester, N. Y.; Chief, Med. Serv., Rochester Gen. Hosp.; in practice, Rochester, N. Y.*

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, 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; 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.*

HARBIN, JR., ROBERT MAXWELL

B.S., Univ. of Ga., 1925; M.D., Emory Univ. Med. School, 1928; *Surg. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929.*

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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); Asst. Prof. Med., ibid.*

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; Post-Grad. Study of Surg., Europe, 1926-27; Surg., Inter-Mountain Clin.; in practice, Salt Lake City, Utah.*

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;*

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H. O., Infants' Hosp., Boston, 1921; Res. Pediatrician, Rainbow Hosp., Cleveland, 1921-24; Asst. Visit. Pediatrician, St. Luke's Hosp., Cleveland, 1922-23, and 1928 to present time; 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; Assoc. Prof. of Med., *ibid.*

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., 1927-28; Res. Surg., Lakeside Hosp.; Instr. in Surg., Western Reserve Univ., 1929-30; Asst. de Clinique Chirurgicale A (Prof. Leriche) Univ. de Strasbourg, Strasbourg, France.

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*.

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, N. H., 1926-29; Toxicologist and Asst. Director of Med. Research, Med. Research Div., Chemical Warfare Service, Edgewood Arsenal, Edgewood, Md.

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; Second in Neurol. Surg., M. G. H.; Asst. Visit. Surg., *ibid.*

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-*

PETER BENT BRIGHAM HOSPITAL

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; Visit. Surg., Peiping Union Med. Coll., Peiping, China, Sept.-Dec., 1930.

HOUCK, GEORGE H.

A.B., Univ. of Oregon, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., Nov. 1, 1927-March, 1929; Asst. Res. in Med., Lane Hospital and Stanford Univ. Med. Sch., 1929-30; Visit. Phys. in charge of Med. O. P. D., Univ. of Calif. Hosp.; Asst., Dept. of Med., Univ. of Calif. Med. Sch.*

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 Infirm., Tewksbury, Massachusetts, 1884-85; in practice, Idaho Springs, Colorado, 1885-87; Asst. Phys., State Infirm., 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; Gen. Practice, Oldham Co., Ky., 1926-28; Clin. Asst., Orthopedic Surg., Louisville City Hosp., 1928-31; Member of Staff at Following Hospitals: Louisville City, Kentucky Baptist, St. Joseph's, Crippled Children's, Masonic Widows and Orphans Home; Member, Professional Advisory Comm., Kentucky Crippled Children's Commission; in practice, Louisville, Kentucky.*

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; in practice, Portland, Ore.*

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, Minn., Nov. 1, 1926-April 1, 1929; in practice, Oak Park, Ill.*

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HURWITZ, SAMUEL HAYMANN

A.B., Harv., 1907; A.M., *ibid.*, 1908; Special Stud., Univ. of Strassburg, Germany, 1909-10; Spec. Student, Inst. of Infectious Diseases, 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; Assoc. Clin. Prof. of Med., Stanford Univ. Med. School.

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., Sept., 1927-Sept., 1928*; *Res. Surg., ibid., Sept.-Oct., 1928*; *P. B. B. H. Traveling Fellow in Surg., 1928*; Asst. Neurol. Surg., Children's Hosp., Boston; Asst. in Surg., Harv.

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.

JACOBSEN, 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.; Prof. of Pathol., Union Univ., Albany, N. Y.; Member, National Research Council, Med. Div., 1930; Research, Pasteur Inst., Paris, under Prof. C. Levaditi, 1931.

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.,

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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.*

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, Rockland, Maine.*

JANNEY, JAMES CRAIK

A.B., Harv., 1911; M.D., *ibid.*, 1915; *Surg. H. O., P. B. B. H., July 1, 1915-Nov. 1, 1916; Capt., M. C., U. S. Army; H. O., Boston Lying-In Hosp., 1923; Fellow, Am. Coll. Surgs., 1926; First Asst. Obstetrician, Mass. Memorial Hosp.; Instr. in Gynecology and Obstetrics, Boston Univ. Sch. of Med.; Obstetrician, Florence Crittendon Home; 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., 1925-27; Clin. Instr., G. U. Surg., ibid., 1927-28; Asst. G. U. Surg., Lakeside Hosp., 1926-28; Assoc. G. U. Surg., ibid.; Asst. Prof. G. U. Surg., Western Reserve Univ.*

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; F.A.C.S., 1928; *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,*

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Huntington Mem. Hosp.; Consult. in Plastic Surg., M. G. H.; Consult. in Oral Surg., Palmer Mem. Hosp.; Member of Staff, N. E. Deaconess Hosp.; Member, Consult. Staff, Beth Israel Hosp.; 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, Sec. of the Faculty, *ibid.*, 1923; Neuro-surg., Univ. Hosp.; Dean, Coll. of Med., Univ. of Nebraska, 1925-29; Prof. Neuro-Surg., *ibid.*; in practice, Omaha, Nebraska.

KENNEDY, W. ROLAND

B.Sc., McGill, 1922; M.D., C.M., *ibid.*, 1925; Interne, rotating service, Montreal Gen. Hosp., 1925-26; Pathol. service, *ibid.*, 1926; Sr. in Med., *ibid.*, 1927-28; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1928-July 1, 1929*.

KEYSER, LINWOOD DICKENS

B.A., Virginia, 1914; M.D., Johns Hopkins, 1918; F.A.C.S., 1928; 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; Attend. Surg. and Surg. Pathol., Roanoke Hosp., Roanoke, Va.

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., M. G. H.; Asst. Phys., Channing Home; Consult. Phys., Mass. Eye and Ear Infirm.; 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.

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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, Ky.; Asst. Prof. of Med., Univ. of Louisville.*

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., Aug., 1927-Aug., 1928; Jr. Assoc. in Med., ibid., Aug., 1928-July, 1929.*

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; Visit. Neuro-Psychiatrist, ibid.; Consult. Phys., Children's Hosp., Montclair, New Jersey; in practice, Montclair, New Jersey.*

KOEFOED, 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 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, N. Y., 1925-27; Asst. Prof. Med., Univ. of Rochester; Asst. Phys., Strong Mem. Hosp.; Assoc. Staff, Rochester Gen. Hosp.; in practice, Rochester, N. Y.*

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; Urologist for N. W. P. R. R.; Chief Urol., Chinese Hosp., San Francisco; Instr. in Urol., Stanford Univ.; in practice, San Francisco, California.*

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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., Harv.; Asst. Visit. Surg., Children's Hosp.; Visit. Surg., Children's Serv., Cambridge Hosp.; 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; Instr. in Surg., Instr., Asst. Prof. and Assoc. Prof. Clin. Surg., Washington Univ., 1920-28; Prof. of Surg. and Gyn. and Director, Surg. Dept., Univ. of Va.

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.

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*; Neurol. H. O., B. C. H., 1928; Res. Pathol., Palmer Mem. Hosp., 1928-29; Res. in Pathol., Huntington Mem. Hosp.; Asst. Pathol., Pondville Hosp.; Asst. in Pathol., Harv., 1929-30; Allgemeines Krankenhaus Eppendorf, Hamburg.

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,

PETER BENT BRIGHAM HOSPITAL

"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, 1922-26; Asst. Roent., Boston Disp. and Beth Isreal 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.; *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. Dept. of Surg., Univ. of Cal. Med. Sch.; Fellow, National Research Council, 1922-23; Full-time Instr. in Surg., Univ. of Cal.; Staff, Hooper Research Foundation, 1923-24; Neurol. Surg., Cleveland Clinic. *Died, Cleveland Clinic disaster, May 15, 1929.*

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.; Assoc. Surg., Brooklyn Jewish Hosp.; Asst. Surg., King's Co. Hosp.; Vol. Asst., Surg. Serv. of Prof. H. VonHaberer, Graz, Austria, Oct., 1927-Feb., 1928; in practice, Brooklyn, N. Y.

LUGER, ALFRED

M.D., Univ. of Vienna; Demonstr., Histological Inst., Univ. of Vienna, May, 1909-May, 1911; Klinik Neusser, Vienna, May, 1911-Sept., 1911; Director, Roentgen Lab., Klinik Neusser, Vienna, Sept., 1911-Dec., 1912; *Roentgenologist, P. B. B. H., Jan. 1, 1913-June 1, 1914* (granted leave of absence from June 1, 1914-Dec. 14, 1915; Asst. in Roentgenology and Asst. in Med., H. M. S., 1914-15; Army Phys., 1915-18; Asst. Bacteriol. Inst., Prof. Dorr, Vienna, 1918-19; Asst. at II. Med. Clin. (Prof. Ortner), Vienna, 1919-29; Privatdozent f. Innere Medizin, Univ. of Vienna; Ausserordentlich Univ. Prof., *ibid.*; Director of II. Med. Div., Kaiserin Elisabeth Hosp., Vienna.

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, Olympia, Washington.

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*; in practice, Schenectady, N. Y.

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.

MANN, ALBERT HOWELL

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

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; Assoc. Attend. Surg., Watts Hosp.; Instr. in Surg., Duke Univ.; in practice, Durham, N. C.

MARLOW, JR., FRANK WILLIAM

B.S., Hamilton, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July, 1927-Nov., 1928*; Asst. Res., New Haven Hosp.; Asst. in Med., Yale Univ., Nov., 1928-July, 1929; Asst. in Med., Harv.; Asst. in Med., M. G. H.; in practice, Brookline, Massachusetts.

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.

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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*; Visit. Anes., B. C. H.; 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 Relief, 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., 1923-28; Fellow, John Simon Guggenheim Memorial Foundation, 1926-27 (in laboratory of Sir Thomas Lewis, Univ. of Coll. Hosp. Med. School, London); Asst. Prof. Clin. Med., Yale.

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. Supt., P. B. B. H., Jan. 8, 1923-Dec. 1, 1927*; Pres., Conn. Hosp. Assoc., 1929-31; Supt., Waterbury Hosp., Waterbury, Conn.

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*; in practice, Atlanta, Ga.

MAUPIN, JR., JAMES L.

A.B., Univ. of Calif., 1921; M.D., Stanford, 1926; Interne, Lane and Stanford Hosp., 1925-27; in practice, Fresno, Calif., 1927-28; Member, Fresno Co. Gen. Hosp. Staff, 1927-28; *Asst. Res. Surg., P. B. B. H., Sept. 1, 1928-March 1, 1929*; Surg. Staff, Fresno Gen. Hosp.

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.*; Dewey Prof. of Med., Univ. of Rochester, Rochester, N. Y.

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,

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1919-20; Post Grad. Study in Europe, 1920; Surg., Western Montana Clin., Missoula; in practice, Missoula, Montana.

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*; Gastro-enterologist to O. P. D., Mass. Memorial Hosp., Boston; Visit. Phys., *ibid.*; Chief, Gastro-Intestinal Research Div., Dept. of Bio-Chemistry, Evans Mem. Hosp.; Member of Senior Staff, *ibid.*; in practice, Boston.

McEACHERN, THOMAS H.

B.A., Univ. of Mich., 1925; M.D., *ibid.*, 1927; Vol. Asst., Pathol. Dept., Univ. of Mich., July-Nov., 1927; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929*; Pediatric H. O., N. Y. Nursery and Child's Hosp., 1929-30; Asst. Res. Pediatrician, *ibid.*, April 1-July 1, 1930; Res. Pediatrician, *ibid.*

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.; Asst. Prof. of Med., *ibid.*; Attend. Phys. and Director of Metabolic Unit, Detroit Receiving Hosp.; Jr. Phys., Harper Hosp.; Consult. in Metab., Herman Kiefer Hosp.; Attend. Phys. to Out-Patients, Harper Hosp.; in practice, Detroit, Mich.

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.

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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., Nov. 1, 1927-March 1, 1929*; Asst. Res. in Med., Long Island Hosp., Nov.-July, 1929; Asst. in Med., Lahey Clinic, Boston.

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, 1916-19; 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, 1916-23; Phys., Austen Riggs Foundation, Stockbridge, Massachusetts, 1923-30; Instr. in Psychiatry, Columbia; in practice (Psychiatry) New York.

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, Baptist Hosp., Houston, Texas; in practice, Houston, Texas.

MONTGOMERY, SAMUEL GIBBS

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. *Deceased.*

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., Presbyterian Hosp.; Instr. in Surg., Columbia Univ.

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. 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., Rocke-

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feller 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.

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.*, 1927-28; Asst. in Med., Univ. of Cal. Med. Sch.; in practice, San Francisco, Calif.

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, Ga.; in practice, Atlanta, Ga.

NICHOL, ARTHUR D.

M.D., Ohio State Univ., 1926; Interne, St. Luke's Hosp., Cleveland, 1926-28; *Asst. Res. Phys., P. B. B. H.*, Aug., 1928-Aug., 1929; Demonstr. in Med., Western Reserve Univ., 1929; Assoc. in Med., St. Luke's Hosp., Cleveland, Ohio.

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, Presbyterian 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.,

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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; Sr. Orth. 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, 1922-24.

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. Deceased.*

ORMOND, JR., ALFRED CURTIS

A.B., Davidson, 1922; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., Oct. 1, 1927-Feb. 1, 1929.*

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.

OUGHTERSON, ASHLEY W.

M.D., Harv., 1924; M.S., Yale, 1929; *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., 1927-28*; William Harvey Cushing Fellow in Surg., Yale Univ., 1928-29; Asst. Prof. of Surg., *ibid.*

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*; in practice, Boston.

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PATTERSON, HOWARD A.

M.D., Harv., 1925; Interne, Roosevelt Hosp., New York, 1925-27; House Gynecologist, *ibid.*, 1927-28; *Asst. Res. Surg.*, P. B. B. H., Feb. 1-Sept. 1, 1928; *Asst. Surg.* to Out-Patients, Roosevelt Hosp., N. Y.; *Asst. Attend. Surg.*, *ibid.*

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; *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., 1921-27. 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; *Pediatrician*, Lawrence and Mem. Assoc. Hosp., New London, Conn.; in practice, New London, Conn.

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.

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PILCHER, COBB

M.D., Vanderbilt Univ., 1927; *Surg. H. O., P. B. B. H., July 1, 1927-Nov. 1, 1928*; Asst. Res. Phys., Vanderbilt Univ. Hosp., Nashville, Tenn., 1928-29; Asst. Res. Surg., *ibid.*, July, 1929-Jan., 1931; Res. Surg., *ibid.*

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*; Instr. in Pathol., Harv.

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 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. Died July 27, 1928.*

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*; Asst. Clin. Med., Baylor Univ., 1927-29; Instr. Clin. Med., *ibid.*; in practice, Dallas, Texas.

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.

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 Traveling Fellow, Harv., 1925; Arthur Tracy Cabot Fellow, *ibid.*, 1925-26; *Assoc. in Surg., P. B. B. H., 1925-28*; Instr. in Neuropathol., Harv.; Asst. Visit. Phys. in Neurol. and Asst. Visit. Surg. for Neuro-Surg., B. C. H.

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.

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*; Clin. Instr. in Med., Univ. of Alabama; in practice, Bessemer, Ala.

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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.*, 1926-29; Prof. Physiol., Tufts Med. School.

RAWLINGS, J. MOTT

B.S., Princeton, 1921; M.D., Johns Hopkins, 1925; Interne, *ibid.*, 1925-26; Instr. in Pathol., *ibid.*, 1926-27; H. O. Med. Serv., Baltimore City Hosp., 1927-28; *Pathol. H. O., P. B. B. H., July 1, 1928-July 1, 1929*.

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*.

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 Univ. Hosp. of the Good Shepherd; Inst. in Med., Syracuse Univ. College of Med.; 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; Editor, Am. Journal of Roent.; in practice, Detroit, Mich.

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.,

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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*; Assoc. in Pathol., Boston City Hosp., 1926-27; Instr. in Pathol., Harv., 1927-28; Assoc., Rockefeller Inst. for Med. Research.

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; Visit. Phys., Bellevue Hosp.; Asst. Prof. of Med., Cornell Univ. Med. Coll., New York.

RIDDLE, MATTHEW C.

B.A., Reed College, 1917; M.A., Univ. of Oregon, 1922; M.D., Harv., 1926; Huntington Mem. Hosp., March-June, 1926; *Med. H. O., P. B. B. H., Nov. 1, 1926-March 1, 1928*; Res. Interne and Jr. Research Asst., Simpson Mem. Inst. for Med. Research; Fellow in Med., National Research Council.

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., July 1, 1927-Sept. 15, 1928; Nat. Research Council Med. Fellow, Sept. 15, 1928-Sept. 15, 1930; Assoc. in Physiol., Johns Hopkins Med. Sch.

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.*, 1927-28; Instr. in Pathol., Harv.; Pathol., Charles Choate Mem. Hosp., Woburn, Faulkner Hosp., Boston, Lynn Hosp., Lynn, Malden Hosp., Malden, Mass. Women's Hosp., Boston, Moore Hosp., Brockton, Norwood Hosp., Norwood, Peterborough Hosp., Peterborough, N. H., Symmes Arlington Hosp., Arlington, Whidden Mem. Hosp., Everett.

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ROSS, J. PATERSON

M.B., M.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.*

RUBLEE, C. D.

M.D., Univ. of Vt., 1922; in practice, 1922-28; *Roent. H. O., P. B. B. H., Nov. 1, 1928-Feb. 1, 1929.*

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.

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. March 1, 1927-July 1, 1928*; Lasker Fellow and Instr., Dept. of Med. Univ. of Chicago, 1928-30; Asst. Prof. of Med., *ibid.*

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.*, 1927-28; Instr. in Med., Detroit Coll. of Med.; Jr. Assoc. in Med., Detroit Receiving Hosp.; in practice, Detroit, Mich.

SCHOLEFIELD, BERNARD GRAHAM

B.A., Oxford, 1921; M.A., B.M., B.Ch., *ibid.*, 1923; M.D., Oxford, 1927; F.R.C.S., England, 1928; 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., 1925-26; *Asst. Res. Surg., P. B. B. H., Aug. 1, 1926-July 10, 1927*; Surg. Registrar, Guy's Hosp., London, England.

SCHREIBER, FREDERIC

A.B., Univ. of Mich., Ex. 1918; Ensign, U. S. N., 1918-19; M.D., Harv., 1923; Interne, Harper Hosp., 1923-25; Asst. to Dr. Max Ballin, 1925-28; Assist. in Surg., O. P. D., Harper Hosp., 1926; *Asst. Res. Surg., P. B. B. H., Oct. 1, 1928-Aug. 1, 1929*; Neuro-Surg., Harper Hosp., Receiving Hosp., Children's Hosp. of Mich., Deaconess Hosp.; in practice, Detroit, Michigan.

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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., Univ. of Cal.; in charge, Clin. Pathol. Dept., and Allergy Clin., Director of Clin. Labs., and Visit. Phys., Univ. of Cal. Hosp.; 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*); City Health Dept., Seattle, Wash. *Died June 7, 1929.*

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; Instr. 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.,*

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ibid., March 1-Sept. 1, 1914; Asst. Instr., Dept. of Preventive Med., Harv., 1914-16; Research Fellow, Rockefeller Inst., New York City, 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; Prof., Public Health Adm., Harv. School of Public Health; Scientific Director, International Health Div., Rockefeller Foundation, N. Y.

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; 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, W. CARTER

B.S., Emory Univ., 1924; M.D., *ibid.*, 1926; Interne, Grady Hosp., Atlanta, Ga., 1926-27; Asst. Res. Phys., Vanderbilt Univ. Hosp., 1927-28; *Jr. Assoc. in Med., P. B. B. H., Sept. 1, 1928-Sept. 1, 1929*; Res. Phys., Grady Hosp. (Emory Univ.), 1929-30; in practice, Atlanta, Georgia.

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.; Chief, Orthopedic Serv., M. G. H.; Asst. Prof. Orthopedics, Harv.; 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.

SPIES, THOMAS D.

M.D., Harv., 1927; *Pathol. H. O., P. B. B. H., Jan. 1, 1928-Jan. 1, 1929*.

SPILLMAN, RAMSAY

A.B., Cornell, 1914; M.D., *ibid.*, 1917; *Surg. H. O., P. B. B. H., July 1, 1917-March 1, 1918*; Columbia Hosp., Washington, D. C.,

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1918-19; 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.; Asst. Prof. Surg., ibid.*

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.; Asst. Visit. Phys. in General Med. and Phys. in Med. in the O. P. D., 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.*

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; Jr. Visit. Phys., B. C. H.; Member, Assoc. Staff, Faulkner and N. E. Deaconess Hospitals, Boston; Asst. in Med., Harv.; in practice, Boston.*

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 Mon-*

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golia, 1925; in practice, Miami, Florida, 1926-28; Assoc. in Traumatic Surg., Clin. of Drs. Forrester, Stimson and Mason.

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*; Surg. in Charge, Urol. Serv., Prov. City Hosp.; Asst. Surg., Gynecological Serv., R. I. Hosp.; Consult. Urol., Prov. Lying-In Hosp.; in practice, Providence, Rhode Island.

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, June, 1921-Feb., 1930; Supt., The Memorial Hosp., Worcester, Mass.*

STRAYHORN, JR., WILLIAM DAVID

B.A., Vanderbilt, 1925; M.D., *ibid.*, 1928; *Med. H. O., P. B. B. H., July 1, 1928-Nov. 1, 1929*; Asst. in Med., Vanderbilt Hosp., Nov. 1, 1929-July 1, 1930; Asst. Res. Phys., *ibid.*

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-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.; Director, Dept. of Int. Med., Univ. Hosp.

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,*

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1916-Feb. 13, 1919; Instr. in Operative Dent., Harv.; in practice (Dentistry), Boston.

TAYLOR, ARTHUR C.

B.A., Univ. of Wisconsin, 1921; M.A., *ibid.*, 1924; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*, July 1, 1927-Nov. 1, 1928; *Pathol. H. O., ibid.*, Jan., 1929-Jan., 1930; Asst. Res. in Surg., Wis. Gen. Hosp., Jan., 1930-July, 1930; Res. in Surg., *ibid.*

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.

TEEL, HAROLD M.

M.D., Harv., 1929; Arthur Tracy Cabot Fellow, Harv., Jan.-Sept., 1929; *Jr. Assoc. in Surg., P. B. B. H.*, July 1-Sept. 1, 1929; Asst. Res., Lakeside Hosp., 1929-31; H. O., Boston Lying-In Hosp.

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.*; Cardiologist, Mercy Hosp., Buffalo, New York; 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., 1926-27; Roentgenologist, Maine Gen. Hosp.

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; Psychiatrist and Executive Secretary, Mental Hygiene Soc. of Md., 1916-27; Editor, *Mental Health*, 1923-26; School Psychiatrist, Baltimore Public Schools, 1922-27; Attend. Phys., Vanderbilt Clin., Psychiatric Dept.; Instr. in Psychiatry, College of Phys. and Surgs., New York, 1927-29; Psychiatrist, Bellevue Hosp., 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. 1, 1922; Visit. Surg., Lyons Hosp., Lyons, New York; in practice, Lyons, New York.

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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.

TROPPOLI, DANIEL V.

A.B., A.M., Brown Univ., 1923; M.D., Harv., 1927; Neurol. H. O., M. G. H., June, 1927-Jan., 1928; *Med. H. O., P. B. B. H.*, March 1, 1928-July 1, 1929; Res. Phys., R. I. Hosp.

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; Assoc. in Med., Northwestern Univ.; Assoc. Phys., Evanston Hosp. Med. Service; in practice, Evanston, Illinois.

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; Asst. Chief, Ear, Nose and Throat Clin., Cincinnati Gen. Hosp.; Attend. Laryngologist, Cincinnati Gen. Hosp.; Instr. in Oto-Laryngology, Med. Coll. of Univ. of Cincinnati; Attend. Laryngologist, Episcopal Hosp. for Children, Cincinnati; Asst. Attend. Laryngologist, Jewish Hosp. and Good Samaritan Hosp., Cincinnati; Attend. Oto-Laryngologist, Hosp. for Chr. Diseases, Cincinnati.

VANCE, ROBERT G.

Roent., Huntington Mem. Hosp., 1924-28; *Assoc. in Roent., P. B. B. H.*, 1928; Asst. Visit. Phys., X-ray Dept., M. G. H.; Roent. to Winchester and Chelsea Mem. Hosp.; Assoc. Roent., Newton Hosp.

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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.

VAN WAGENEN, WILLIAM P.

A.B., Cornell, 1918; M.D., Harv., 1922; Asst. Anat., Cornell, 1918-19; H. O., Memorial Hosp., N. Y., 1922; *Surg. H. O., P. B. B. H., 1922-24*; Res. Surg., Memorial Hosp., N. Y., 1924-25; *Asst. Res. Surg., P. B. B. H., 1926-27*; Res. Surg., Rochester Gen. Hosp., 1926-27; Asst. in Neurol., Harv. and B. C. H., 1927-28; Asst. Prof. Surg., Univ. of Rochester School of Med.

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*; Clin. Prof. of Radiology, Woman's Med. Coll., Philadelphia; Roentgenologist, Hosp. of the Woman's Med. Coll.; 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; Consult. Phys., Retreat Hosp.; Consult. Phys., Evangeline Booth Hosp.; Consult. Phys., Farmville Comm. Hosp., Farmville, Va.; Secretary, Am. Assoc. for the Study of Allergy; Editor, *Journ. Lab. and Clin. Med.*; in practice, Richmond, Virginia.

VERMOOTEN, VINCENT

A.B., Univ. of Capetown, South Africa, 1918; A.M., *ibid.*, 1919; 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., 1927-28*; Instr. in Urol., Yale Univ., 1928-30; Asst. Prof. Urol., *ibid.*; Assoc. Surg., New Haven Hosp.

VICKERS, DENVER M.

A.B., Colorado Coll., 1917; M.D., Harv., 1921; *Surg. H. O., P. B. B. H., July, 1921-Nov. 1, 1922*; Surg., Mary McLellan Hosp., Cambridge, 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; Asst.

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Neurol., M. G. H.; Asst. Visit. Neurol., Long Island Hosp., Boston; Instr. in Neurol., Harv.; 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; Assoc. Staff, Good Samaritan Hosp. and Good Hope Clin.; Jr. Ophthalmic Surg., Co. Hosp., Los Angeles, Calif.; in practice, Los Angeles, Calif.

WALKER, JR., GEORGE L.

B.S., Emory Univ., 1924; M.D., *ibid.*, 1926; H. O., Grady Hosp., 1926-27; House Phys., *ibid.*, 1927-28; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1928-Sept. 1, 1929*; Res. Phys., Cornell Div., Bellevue Hosp., N. Y., 1929-31; in practice, Atlanta, Georgia.

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 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,

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Thorndike Lab., B. C. H.; Visit. Phys., B. C. H., 1928-29; Prof. of Med., Western Reserve Univ., Cleveland, Ohio; Director of Med., Lakeside Hosp.

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; commissioned Capt., M. C., May, 1918; in practice at San Diego, May, 1919, until December, 1921. *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.

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. *Died Oct. 24, 1929, at Manila, P. I.*

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.

REGISTER OF FORMER MEMBERS OF THE STAFF

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.; Staff, St. Vincent Hosp., Los Angeles; Attend. Staff, Hosp. of Good Samaritan; Staff, Cedars of Lebanon and Los Angeles Gen. Hosp.; in practice, Los Angeles, California.

WHEELER, BANCROFT C.

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.*, 1927-28; *Res. Surg.*, Mem. Hosp., Worcester, 1928-29; *Asst. Visit. Surg.*, *ibid.*

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.

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. 1, 1925-July 1, 1927; Nat. Research Council Fellow in Surg., Univ. of Rochester Sch. of Medicine and Dentistry, 1927-28; Second *Asst. Visit. Surg.*, Mass. Homeo. Hosp.; *Asst. in Anat.*, Boston Univ. Sch. of Med.; Assoc. Member, Evans Mem. for Clin. Research and Prev. Med.; in practice, Boston.

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 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.,

PETER BENT BRIGHAM HOSPITAL

Fall River, Mass.; Asst. Pediatrician, *ibid.*, Jan.-Sept., 1927; Director of Montgomery Co. Laboratories (Julius Wasserman Mem. and John Barnes Foundation), Montgomery Co., N. Y.; Pathol., City Hosp., St. Mary's Hosp., Amsterdam, N. Y.; Pathol. to Montgomery Co. Tbc. San.; Consultant Pediatrician, *ibid.*; in pediatric 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, 1924-28; 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.*, 1927-28; in practice, Portland, Oregon.

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; Asst. Prof. Neuro-Psychiatry, Univ. of Virginia, Med. Dept.

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*; Assoc. in 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, 1924-29; Asst. Prof. Pediatrics, Syracuse Med. Sch.; Assoc. Attend. Pediatrician, Syracuse Univ. Hosp.

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, 1916-17; and 1919-20; *Assoc. in Surg., P. B. B. H., March 25-Oct. 1, 1920*; Assoc. Prof. of Anat., Johns Hopkins, Baltimore, Maryland.

WOOD, R. HUGH

M.D., Med. Coll. of Va., 1921; Interne, St. Elizabeth's Hosp., Richmond, Va., 1922; Res. Pathol., Mem. Hosp., Richmond, Va.,

REGISTER OF FORMER MEMBERS OF THE STAFF

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.

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.*, 1927-28; H. O., N. Y. Nursery and Child's Hosp., 1929; Attend. Pathol., *ibid.*; Instr. in Pediatrics, Cornell Univ. School of Med.; Asst. Pediatrician, N. Y. Nursery and Child's Hosp.

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; Alter-

PETER BENT BRIGHAM HOSPITAL

nate on Visit. Staff, Indianapolis City Hosp., Indianapolis; Research Fellow, Indiana Univ. Med. Sch.

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.; in practice, Detroit, Michigan.

ZOLLINGER, ROBERT

B.S., Ohio State Univ., 1924; M.D., *ibid.*, 1927; H. O., Inst. for Feeble-Minded, Columbus, Ohio, 1925-27; *Surg. H. O., P. B. B. H., Jan. 1, 1928-May 1, 1929*; Asst. Res. Surg., Lakeside Hosp., July 1, 1929-July 1, 1930; Crile Fellow in Surg., Western Reserve Univ. Sch. of Med.

Former Members of the Corporation

Elected

| | | |
|--------------|--------------------|-------------------------|
| May 8, 1902 | ALEXANDER COCHRANE | Died April 10, 1919 |
| May 8, 1902 | EBEN DRAPER | Died April 9, 1914 |
| May 8, 1902 | HENRY S. HOWE | Died March 2, 1931 |
| May 8, 1902 | WALTER HUNNEWELL | Died September 30, 1921 |
| Oct. 2, 1902 | AUGUSTUS HEMENWAY | Died May 25, 1931 |

Appointed

| | | |
|---------------|-------------------|-----------------------|
| June 16, 1909 | *JOHN P. REYNOLDS | Died December 9, 1920 |
|---------------|-------------------|-----------------------|

Elected

| | | |
|---------------|------------------------|-------------------------|
| Feb. 7, 1918 | CHARLES F. CHOATE, JR. | Resigned March 13, 1924 |
| Dec. 11, 1919 | LOUIS A. FROTHINGHAM | Died August 23, 1928 |
| Feb. 12, 1920 | WILLIAM H. WELLINGTON | Died February 2, 1925 |

* Appointed by the Governor of Massachusetts.

Officers of the Institution, 1931

President

CHARLES P. CURTIS

Treasurer

EDMUND D. CODMAN

Secretary

LAURENCE H. H. JOHNSON

MEMBERS OF THE CORPORATION

Appointed

| | | | |
|---------------|--------------------------|------------------------|--------|
| Jan. 5, 1921 | *WILLIAM AMORY | 179 Commonwealth Ave., | Boston |
| Mar. 26, 1925 | HARRY L. BAILEY | 93 Franklin St., | Boston |
| May 8, 1902 | EDMUND D. CODMAN | 27 Kilby St., | Boston |
| May 14, 1931 | CHARLES A. COOLIDGE, JR. | 50 Federal St. | Boston |
| Apr. 15, 1915 | CHARLES P. CURTIS | 71 Ames Building, | Boston |
| Mar. 25, 1931 | RICHARD C. CURTIS | 47 Ames Building, | Boston |
| Mar. 26, 1925 | PAUL E. FITZPATRICK | 104 Kingston St., | Boston |
| June 16, 1909 | †IRVIN MCD. GARFIELD | 30 State St., | Boston |
| Feb. 7, 1918 | FRANCIS L. HIGGINSON | 70 Federal 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 AMORY

* Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 1, 1936.

† Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 1, 1933.

‡ Died March 2, 1931.

OFFICERS OF THE INSTITUTION

Committee on Finances

WILLIAM AMORY
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 1930

| | |
|------------------------------|-----------|
| CHARLES P. CURTIS | January |
| PAUL E. FITZPATRICK | February |
| HENRY S. HOWE | March |
| WILLIAM R. TRASK | April |
| LAURENCE H. H. JOHNSON | May |
| FRANCIS L. HIGGINSON | June |
| EDMUND D. CODMAN | July |
| CHARLES P. CURTIS | August |
| IRVIN McD. GARFIELD | September |
| HARRY L. BAILEY | October |
| WILLIAM AMORY | November |
| RICHARD S. RUSSELL | December |

VISITING COMMITTEE FOR 1931

| | |
|-------------------------------|-----------|
| CHARLES P. CURTIS | January |
| PAUL E. FITZPATRICK | February |
| RICHARD C. CURTIS | March |
| WILLIAM R. TRASK | April |
| LAURENCE H. H. JOHNSON | May |
| FRANCIS L. HIGGINSON | June |
| EDMUND D. CODMAN | July |
| CHARLES A. COOLIDGE, JR. | August |
| IRVIN McD. GARFIELD | September |
| HARRY L. BAILEY | October |
| WILLIAM AMORY | November |
| RICHARD S. RUSSELL | December |

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*

PETER BENT BRIGHAM HOSPITAL

ADMINISTRATIVE DEPARTMENT

Superintendent

Service began

May 1, 1919 JOSEPH B. HOWLAND, M.D.

Assistant Superintendents

July 1, 1930 CHARLES L. CLAY, M.D.

July 20, 1930 NORBERT A. WILHELM, 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*

Oct. 7, 1929 HAROLD A. KENT, D.M.D., *Consulting Dental Surgeon*

Mar. 8, 1928 GEORGE R. MINOT, *Consulting Physician*

Apr. 12, 1923 HANS ZINSSER, M.D., *Consulting Bacteriologist*

Oct. 9, 1930 LYMAN G. RICHARDS, *Consulting Oto-Laryngologist*

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, 1928 CLIFFORD L. DERICK, 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*

May 24, 1928 JOSEPH C. AUB, 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*

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*

Nov. 1, 1927 LYMAN H. HOYT, M.D., *Junior Associate in Medicine*

Sept. 1, 1928 WILLIAM C. EGLOFF, M.D., *Junior Associate in Medicine*

Jan. 24, 1929 HARRY H. BLOTNER, M.D., *Junior Associate in Medicine*

Dec. 22, 1930 JOHN M. FLYNN, M.D., *Junior Associate in Medicine*

Sept. 1, 1929 MARSHALL N. FULTON, M.D., *Resident Physician*

July 1, 1930 RICHARD G. HAHN, M.D., *Assistant Resident Physician*

Aug. 1, 1930 ALEX R. FREEMAN, M.D., *Assistant Resident Physician*

Aug. 1, 1930 GORDON MYERS, M.D., *Assistant Resident Physician*

OFFICERS OF THE INSTITUTION

| | |
|---------------|---|
| Aug. 1, 1930 | S. MARION SALLEY, M.D., <i>Assistant Resident Physician</i> |
| Sept. 1, 1930 | LEYLAND J. ADAMS, 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> |
| Nov. 17, 1914 | HILBERT F. DAY, M.D., <i>Associate in Surgery</i> |
| Mar. 8, 1928 | LOUISE EISENHARDT, M.D., <i>Junior Associate in Surgery</i> |
| Oct. 1, 1928 | HARLAN F. NEWTON, M.D., <i>Junior Associate in Surgery</i> |
| Apr. 24, 1930 | DONALD MACDONALD, M.D., <i>Junior Associate in Otolaryngology</i> |
| Jan. 5, 1931 | RICHARD U. LIGHT, M.D., <i>Junior Associate in Surgery</i> |
| Oct. 1, 1930 | ARTHUR J. MCLEAN, M.D., <i>Resident Surgeon</i> |
| Jan. 15, 1930 | JOHN C. ECKELS, M.D., <i>Assistant Resident Surgeon</i> |
| Sept. 1, 1930 | RICHARD MIDDLETON, M.D., <i>Assistant Resident Surgeon</i> |
| Oct. 1, 1930 | RICHARD MEAGHER, M.D., <i>Assistant Resident Surgeon</i> |
| Oct. 1, 1930 | THOMAS I. HOEN, M.D., <i>Assistant Resident Surgeon</i> |
| Apr. 1, 1931 | WALTER W. BOYD, M.D., <i>Assistant Resident Surgeon</i> |
| Apr. 1, 1931 | WILLIAM DEG. MAHONEY, M.D., <i>Assistant Resident Surgeon</i> |

PATHOLOGICAL DEPARTMENT

Service began

| | |
|---------------|---|
| Dec. 1, 1916 | S. BURT WOLBACH, M.D., <i>Pathologist</i> |
| Sept. 1, 1929 | REUBEN Z. SCHULZ, M.D., <i>Resident Pathologist</i> |

ROENTGENOLOGICAL DEPARTMENT

Service began

| | |
|---------------|---|
| May 15, 1922 | MERRILL C. SOSMAN, M.D., <i>Roentgenologist</i> |
| Jan. 12, 1928 | EDWARD C. VOGT, M.D., <i>Associate in Roentgenology</i> |
| July 1, 1930 | ERSKINE R. PICKWICK, <i>Assistant Resident in Roentgenology</i> |

DENTAL SURGEON

Service began

| | |
|--------------|-------------------------|
| Oct. 7, 1929 | MOSES S. STROCK, D.M.D. |
|--------------|-------------------------|

PETER BENT BRIGHAM HOSPITAL

MEDICAL HOUSE OFFICERS

| <i>Service began</i> | | | <i>Service ended</i> |
|----------------------|-------------------------------------|--------------|----------------------|
| Nov. 1, 1928 | HARRY B. FRIEDGOOD, M.D. | Mar. 1, 1930 | |
| Nov. 1, 1928 | GEORGE E. SHAMBAUGH, JR., M.D. | Mar. 1, 1930 | |
| Nov. 1, 1928 | THOMAS A. C. RENNIE, M.D. | Mar. 1, 1930 | |
| Mar. 1, 1929 | RICHARD G. HAHN, M.D. | July 1, 1930 | |
| Mar. 1, 1929 | WILLIAM G. HARRISON, JR., M.D. | July 1, 1930 | |
| Mar. 1, 1929 | THEODORE G. KLUMPP, M.D. | July 1, 1930 | |
| July 1, 1929 | MORRIS A. BOWIE, M.D. | Nov. 1, 1930 | |
| July 1, 1929 | JAMES I. FARRELL, M.D. | Nov. 1, 1930 | |
| July 1, 1929 | JAMES P. TOLLMAN, M.D. | Nov. 1, 1930 | |

| <i>Service began</i> | | | <i>Service will end</i> |
|----------------------|-------------------------------------|--------------|-------------------------|
| Nov. 1, 1929 | PAUL C. DOZIER, M.D. | Mar. 1, 1931 | |
| Nov. 1, 1929 | EARLE A. HARVEY, M.D. | Mar. 1, 1931 | |
| Nov. 1, 1929 | DANIEL BLAIN, M.D. | Mar. 1, 1931 | |
| Mar. 1, 1930 | EDWIN J. DOTY, M.D. | July 1, 1931 | |
| Mar. 1, 1930 | JAMES H. MARKS, M.D. | July 1, 1931 | |
| Mar. 1, 1930 | NORMAN A. POKORNY, M.D. | July 1, 1931 | |
| July 1, 1930 | SAMUEL DIACK, M.D. | Nov. 1, 1931 | |
| July 1, 1930 | WILLIAM EVANS, M.D. | Nov. 1, 1931 | |
| July 1, 1930 | RICHARD H. YOUNG, M.D. | Nov. 1, 1931 | |
| Nov. 1, 1930 | ROBERT FLEMING, M.D. | Mar. 1, 1932 | |
| Nov. 1, 1930 | PHILIP SHAMBAUGH, M.D. | Mar. 1, 1932 | |
| Feb. 15, 1931 | HARRY C. BUHRMESTER, JR., M.D. | Nov. 1, 1931 | |
| Mar. 1, 1931 | EUGENE C. EPPINGER, M.D. | July 1, 1932 | |
| Mar. 1, 1931 | JAMES B. MCLESTER, M.D. | Mar. 1, 1932 | |
| Mar. 1, 1931 | SELWYN STEEL, M.D. | July 1, 1932 | |
| May 28, 1931 | PETER A. H. MIDELFART | July 1, 1932 | |

SURGICAL HOUSE OFFICERS

| <i>Service began</i> | | | <i>Service ended</i> |
|----------------------|----------------------------------|--------------|----------------------|
| Oct. 1, 1928 | WALTER W. BOYD, M.D. | Feb. 1, 1930 | |
| Aug. 1, 1929 | WILLIAM T. GREEN | Feb. 1, 1930 | |
| Jan. 1, 1929 | FRANK N. GLENN, M.D. | May 1, 1930 | |
| Jan. 1, 1929 | H. WALTON COCHRAN, M.D. | May 1, 1930 | |
| Apr. 1, 1929 | RICHARD W. FARNSWORTH, M.D. | Aug. 1, 1930 | |
| Apr. 1, 1929 | THOMAS I. HOEN, M.D. | Aug. 1, 1930 | |
| July 1, 1929 | EDWARD B. CASTLE, M.D. | Nov. 1, 1930 | |
| July 1, 1929 | RICHARD U. LIGHT, M.D. | Nov. 1, 1930 | |

| <i>Service began</i> | | | <i>Service will end</i> |
|----------------------|----------------------------------|--------------|-------------------------|
| Oct. 1, 1929 | FREDERICK A. FENDER, M.D. | Feb. 1, 1931 | |
| Oct. 1, 1929 | WILLIAM DE G. MAHONEY, M.D. | Feb. 1, 1931 | |
| Jan. 1, 1930 | KENNETH W. THOMPSON, M.D. | May 1, 1931 | |
| Jan. 1, 1930 | BRONSON S. RAY, M.D. | May 1, 1931 | |
| Apr. 1, 1930 | JOHN H. LAWRENCE, M.D. | Aug. 1, 1931 | |
| Apr. 1, 1930 | DONALD E. DIAL, M.D. | Aug. 1, 1931 | |

OFFICERS OF THE INSTITUTION

| <i>Service began</i> | | | <i>Service will end</i> | |
|----------------------|---------|-------------------------------|-------------------------|---------|
| July | 1, 1930 | LUTHER M. STRAYER, M.D. | Nov. | 1, 1931 |
| July | 1, 1930 | JOSEPH H. BOYES, M.D. | Nov. | 1, 1931 |
| Oct. | 1, 1930 | COURTNEY C. BISHOP, M.D. | Feb. | 1, 1932 |
| Oct. | 1, 1930 | LEE G. KENDALL, M.D. | Feb. | 1, 1932 |
| Jan. | 1, 1931 | CHARLES M. GRAY, M.D. | May | 1, 1932 |
| Apr. | 1, 1931 | ARTHUR N. BERRY, M.D. | May | 1, 1932 |
| Apr. | 1, 1931 | JOHN W. KANE, M.D. | Aug. | 1, 1932 |
| Apr. | 1, 1931 | STANLEY BYSSHE | Aug. | 1, 1932 |

PATHOLOGICAL HOUSE OFFICERS

| | | |
|------|---------|------------------------|
| July | 1, 1930 | ARTHUR T. HERTIG, M.D. |
| Jan. | 1, 1931 | JAMES P. TOLLMAN, M.D. |

HOUSE OFFICERS IN ROENTGENOLOGICAL DEPARTMENT

| | | |
|------|---------|--------------------|
| July | 1, 1930 | HUGH F. HARE, M.D. |
|------|---------|--------------------|

DENTAL HOUSE OFFICER

| | | |
|------|---------|----------------------------|
| Oct. | 1, 1930 | CHARLES J. CASHMAN, D.M.D. |
|------|---------|----------------------------|

SCHOOL OF NURSING

Superintendent of Nurses and Principal of the School of Nursing

| | | |
|------|---------|----------------------|
| July | 1, 1912 | CARRIE M. HALL, R.N. |
|------|---------|----------------------|

Assistant Superintendent of Nurses

| | | |
|------|---------|-----------------------|
| June | 1, 1928 | MARY C. GILMORE, R.N. |
|------|---------|-----------------------|

Instructor in Theory

| | | |
|------|----------|----------------------------|
| Jan. | 17, 1928 | KATHERINE BELL, B.S., R.N. |
|------|----------|----------------------------|

Instructor in Practice

| | | |
|-------|---------|---------------------------|
| Sept. | 1, 1929 | BERNICE J. SINCLAIR, R.N. |
|-------|---------|---------------------------|

Instructor in Operating Room Technique

| | | |
|------|---------|------------------------|
| Mar. | 1, 1931 | ESTHER B. KINNEY, R.N. |
|------|---------|------------------------|

Supervisors

| | | |
|-------|----------|------------------------------|
| June | 1, 1929 | HELEN A. NEWHALL, A.B., R.N. |
| Sept. | 1, 1929 | ELSA E. C. STORM, R.N. |
| Oct. | 13, 1927 | RACHEL T. ADAMS, R.N. |
| Jan. | 3, 1928 | EVELEAN G. PIERCE, R.N. |

Night Supervisors

| | | |
|------|----------|--------------------------|
| July | 1, 1930 | GRACE E. SLIPP, R.N. |
| July | 29, 1930 | FRANCES M. DAGGETT, R.N. |

PETER BENT BRIGHAM HOSPITAL

Chief—Social Service Department

Aug. 17, 1914 ALICE M. CHENEY, R.N.

Dietitian

May 21, 1925 THELMA TUBBS CURRIER, 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

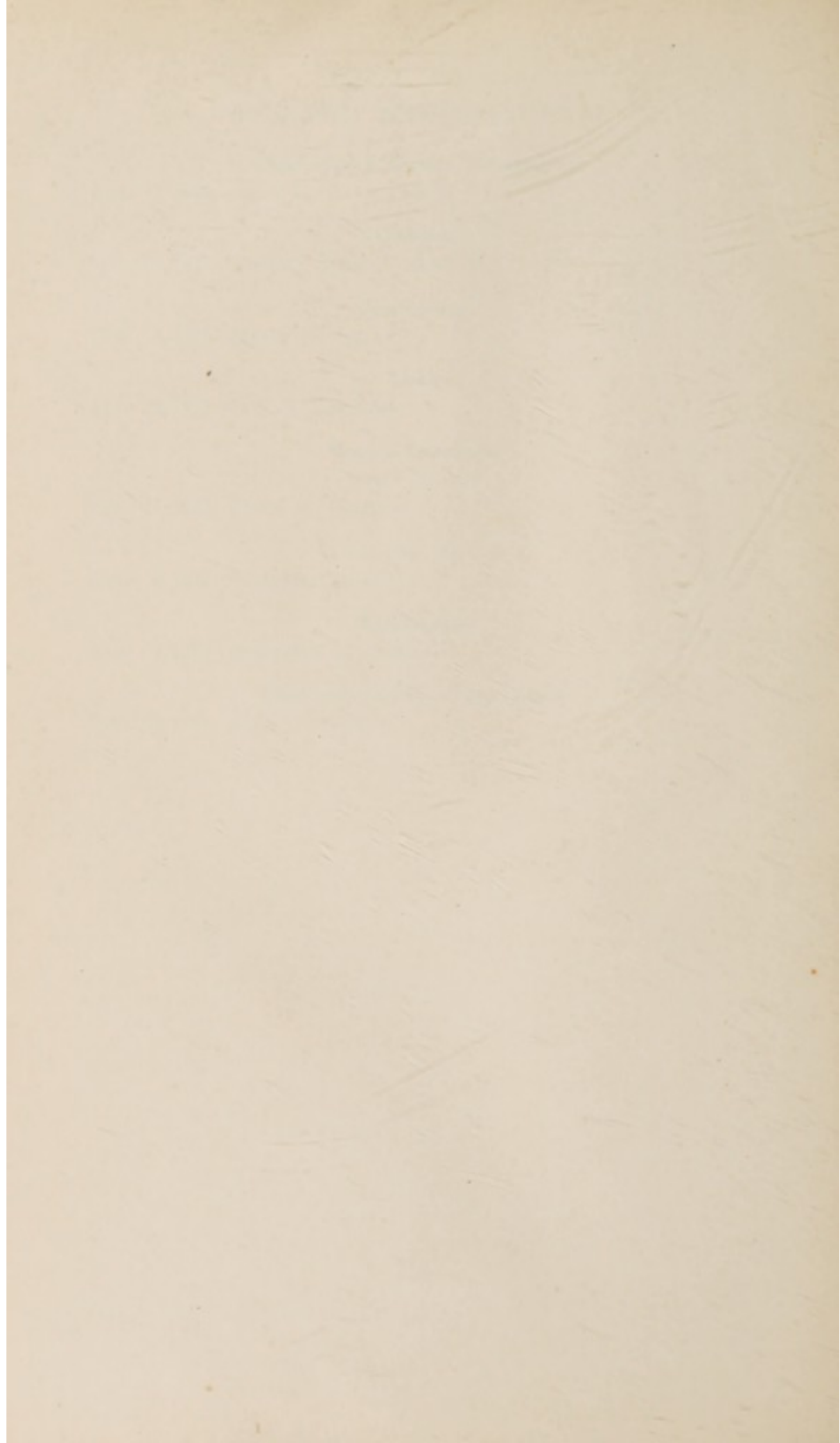
Mar. 2, 1931 VIRGINIA COLARUSSO

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.

