

Annual report of the Peter Bent Brigham Hospital : 1937.

Contributors

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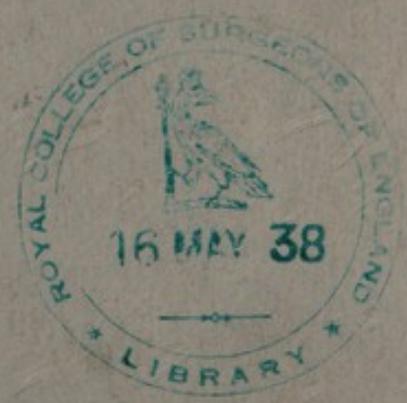


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PETER BENT BRIGHAM
HOSPITAL --- BOSTON

TWENTY-FOURTH
ANNUAL REPORT
FOR THE YEAR 1937



1938

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.*



22503068907

TWENTY-FOURTH ANNUAL REPORT
OF THE
PETER BENT BRIGHAM
HOSPITAL

FOR THE YEAR
1937



1938

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President's Report

DURING the past year, Miss Carrie M. Hall, Superintendent of Nurses and Principal of the School of Nursing, retired. She left an enviable record of achievement and has received many honors both in this country and for her service abroad during the war. Miss Hall had been with the Hospital since it started, and the high standard of our nurses has been due to her ability and untiring labors. We wish her many years for the enjoyment of her leisure.

We were fortunate to get as Miss Hall's successor Miss Lucy H. Beal, a graduate of the class of 1919, who during 1921 and 1922 taught the Theory and Practice of Nursing at the Albany Hospital and then returned to this Hospital and was with us until 1927. Since that date, she has been head of the School of Nursing at Waterbury Hospital, Waterbury, Connecticut, and then in the same capacity at the Syracuse Memorial Hospital from which position she came to us. We feel that we were fortunate in being able to persuade her to return to us.

During the year, Dr. Allen O. Whipple, Professor of Surgery at Columbia University, and Dr. O. H. Perry Pepper, Professor of Medicine at the University of Pennsylvania, served the short appointments as Surgeon-in-Chief *pro tempore* and Physician-in-Chief *pro tempore*, and we cannot help having obtained new ideas from their services.

We are glad to welcome back Drs. David Cheever and John Homans, both on leave a large part of last year.

We are grateful for the help of the Ladies' Social Service Committee, the Advisory Committee of the

PETER BENT BRIGHAM HOSPITAL

School of Nursing, and the Gray Lady Service of the American Red Cross, and are more than grateful to the Community Federation on whom our very existence depends.

This spring we are going to celebrate the twenty-fifth year of the Hospital, and hope that the returning doctors who have served us in their youth may help the members of the Corporation in persuading some of our grateful patients (of whom there are many) that although once well endowed, we are now in urgent need of funds to continue in existence.

Owing to our youth, and having once had sufficient funds, our receipts from bequests have been relatively nothing compared to what is received by our neighboring hospitals. That is one of the things that helps hospitals to keep up their efficiency, and aid in the rapid advance which has occurred in the field of medicine, and helped in the care of the sick.

WILLIAM AMORY,
President.

DECEMBER 31, 1937.

Gifts to the Hospital During the Year 1937

New England Trust Company, Trustee u/w Photius Fiske:	
For the benefit of poor and needy colored people	\$ 200.00
G. Gorham Peters Fund:	
Mr. G. Gorham Peters	2,500.00
Committee of the Permanent Charity Fund, Inc.:	
For the Social Service Department	2,000.00
Committee of the Permanent Charity Fund, Inc.:	
For relief cases	800.00
Roentgenological Fund:	
Anonymous	65.00
Pernicious Anemia Fund:	
Miss Elizabeth M. Garrett	\$ 200.00
Mrs. David K. Horton	30.00
	230.00
Fiction Library Fund:	
Mrs. H. B. Townsend	\$ 9.63
Mrs. Randolph Eddy	5.00
Mrs. Amy Hubbard Abbott	6.05
Mrs. Jessie D. Robinson	5.00
Anonymous	1.00
	26.68
Francis Weld Peabody Loan Fund:	
Dr. John A. Wentworth through Dr. Christian	50.00
Elliott C. Cutler Fund:	
Dr. Allen O. Whipple	\$ 100.00
Anonymous	2,150.00
	2,250.00
General Fund:	
A. C. Ratshesky Foundation Fund	\$ 200.00
Fellow Workers of Jordan Marsh Co.	2.00
First National Bank Tr. u/w Samuel Hirschburg	6.80
Legacy u/w Sarah Shapiro	200.00
Mr. Jacob Tekulsky	10.00
	418.80
Boston Council of Social Agencies:	
For relief of Overseer's cases	841.68
Fund for Research in Renal & Vascular Disease:	
Montreal General Hospital	\$ 6.00
Harvard University	2.50
Anonymous through Dr. J. P. O'Hare	1,000.00
	1,008.50
Cushing Surgical Endowment Fund:	
Mrs. T. H. Stewart, Montreal, Canada	500.00
Anonymous gift to establish a free bed to be known as the W. A. Free Bed	10,000.00

PETER BENT BRIGHAM HOSPITAL

Mr. Theodore Lyman to establish a ten-year free bed to be known as the Theodore Lyman Free Bed	1,000.00
Mrs. William Amory to establish a ten-year free bed to be known as the M. R. A. Free Bed	1,000.00
Community Federation:	
Final payment of quota for year 1936	5,722.90
Community Federation:	
On account of quota for year 1937	123,305.00
Food orders	100.00
Total	\$152,018.56

Gifts to the Social Service Special Gifts Fund

Chelsea Hebrew Ladies Charity Association	\$ 4.40	Miss Louisa M. Hooper	5.00
Lend-A-Hand Society	97.40	Mrs. Annie Curtis	20.00
The Eckeley Fund	13.50	Kiwanis Club, Boston	73.40
Frederick E. Weber Charities	418.00	Mr. Christopher R. Eliot ..	48.00
Kings Chapel Sunday School	25.00	Boston Provident Association	6.40
Family Welfare Society ...	6.30	Mrs. Eugenia B. Herring ..	25.00
Anonymous	97.00	Mr. A. S. Piper	5.00
Mrs. Vivian H. Taber	5.00	Mrs. Helen E. Endicott	20.00
Mrs. Elisha G. Boland	2.00	Mrs. Richard C. Paine	10.00
Mrs. William L. Underwood	5.00	Mrs. Walter Hunnewell ...	5.00
Mrs. James R. Hooper	5.00	Mrs. G. Phillip Grabfield ..	5.00
Miss Abbie C. Blake	5.00	Miss Katherine A. Homans	5.00
Mrs. Francis Todd	15.00	Lotta Crabtree Fund	100.00
Mrs. Abigail A. Elliott	24.00	Mrs. Margaret C. Addison.	3.00
Miss Abigail Elliott	24.00	Mrs. Donald McKay Frost.	20.00
American Invalid Aid Society	4.50	Mrs. J. A. Lowell Blake ...	5.00
We Ten	47.80	Mrs. George Denny	5.00
Mrs. Herbert L. Bowen ...	10.00	Mrs. J. L. Bremer	10.00
Mrs. Grace F. Chamberlain	3.00	Mrs. David Cheever	7.00
Mrs. Henry P. Kidder	10.00	The Junior League, Boston	10.00
Industrial Aid Relief Society	20.00	Mrs. Jessie D. Robinson ...	100.00
Mrs. William Nickerson ...	25.00	Dr. & Mrs. Elliott C. Cutler	5.00
Mary A. Tenney	2.00	The Benton Fund	75.00
		Mrs. Helen M. Taylor	5.00
		Total	\$1,441.70

GIFTS TO THE HOSPITAL

Free Bed Fund, 1937

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	8,000.00
(Alumnae Association of the Peter Bent Brigham Hospital School of Nursing)	
Henry Saltonstall Howe Free Bed	5,000.00
In Memory of D. W.....	10,000.00
In Memory of E. S. B.....	10,000.00
W. A. Free Bed.....	10,000.00
M. R. A. Free Bed.....	1,000.00
Theodore Lyman Free Bed.....	1,000.00



Report of the Treasurer

SUMMARIZED STATEMENT OF INCOME AND EXPENSES

For the Year Ending December 31, 1937

Income:

Real Estate (Net)	\$ 10,906.53
Interest Received:	
Bonds	\$ 35,245.04
Mortgages	5,096.57
	<hr/>
	40,341.61
Dividends Received	28,210.00
	<hr/>
	\$ 79,458.14
<i>Less:</i> Income allocated to Special Funds	1,442.94
	<hr/>
<i>Total Income from Investments for General Purposes ..</i>	<i>\$ 78,015.20</i>

Deduct:

Treasurer's Expenses:

Salaries	\$ 6,750.00
Legal and Audit	1,415.40
Investment Service	1,200.00
Sundry	934.37
	<hr/>
<i>Total Treasurer's Expenses</i>	<i>\$ 10,299.77</i>
	<hr/>
<i>Income Available for Hospital Operating Expenses ...</i>	<i>\$ 67,715.43</i>

Operating Deficit:

Hospital Expenses	\$574,046.49
<i>Deduct:</i>	
Hospital Revenue	325,131.55
	<hr/>
	248,914.94
	<hr/>
<i>Net Operating Deficit</i>	<i>\$181,199.51</i>

Deduct:

Amount Received applicable to Hospital Expenses:

Community Federation of Boston	123,305.00
	<hr/>
<i>Net Deficit for Year</i>	<i>\$ 57,894.51</i>

REPORT OF THE TREASURER

BALANCE SHEET

December 31, 1937

ASSETS

Cash		\$ 55,625.49
Investments—Book Value:		
Real Estate	\$ 2,361,620.87	
Mortgages	117,192.67	
Bonds	697,031.58	
Stocks	1,189,925.70	
	4,365,770.82	
Inventories		35,314.80
Hospital:		
Land	\$ 332,219.34	
Buildings	1,962,213.06	
	2,294,432.40	
		\$ 6,751,143.51

LIABILITIES, FUNDS AND RESERVES

Accounts Payable—City of Boston real estate taxes for years 1934, 1935, 1936 and 1937 pending appeals		\$ 68,688.45
Special Funds:		
Permanent	\$ 191,271.73	
Unexpended Income, Special Gifts, etc.	10,366.00	
	201,637.73	
Reserves for depreciation, etc.:		
Portland Street Power Plant	\$ 4,076.00	
Investment Real Estate	105,439.10	
Sprinkler Leakage Loss	2,312.00	
	111,827.10	
General Fund		6,368,990.23
		\$ 6,751,143.51
		\$ 6,751,143.51

PETER BENT BRIGHAM HOSPITAL

STATEMENT OF GENERAL FUND

For the Year Ending December 31, 1937

<i>Balance—January 1, 1937</i>		\$ 6,404,115.64
<i>Deduct:</i>		
Net Operating Deficit for the year ending December 31, 1937	\$ 57,894.51	
<i>Less:</i>		
Final Gift from 1936 Community Federation	\$5,722.90	
Unrestricted Gifts	418.80	
	6,141.70	
		51,752.81
		\$ 6,352,362.83
<i>Add:</i>		
Profit on Investments sold or called (net)	\$ 16,256.05	
Arrears of Interest on defaulted bonds due in previous years	370.80	
Maturity of a ten-year Free Bed Fund	1,000.00	
	\$ 17,626.85	
<i>Less:</i>		
Payment of balance real estate taxes after abate- ment for years 1932-33 and 1935—21/3 Mid- dlesex Street, Boston	999.45	
	16,627.40	
<i>Balance—December 31, 1937</i>		\$ 6,368,990.23

REPORT OF THE TREASURER

SPECIAL FUNDS

December 31, 1937

Permanent:

Alexander Cochrane Free Bed.....	\$ 10,000.00
Walter Hunnewell Free Bed.....	10,000.00
Aimee Lamb Free Bed in memory of Mrs. Winthrop Sargent	5,000.00
Free Bed in Memory Henry Saltonstall Howe ..	5,000.00
Free Bed in Memory of D. W.....	10,000.00
Free Bed in Memory of E. S. B.....	10,000.00
W. A. Free Bed.....	10,000.00
Theodore Lyman Free Bed.....	1,000.00
M. R. A. Free Bed.....	1,000.00
Harvey Cushing Fellowship Fund.....	33,573.44
John P. Reynolds Scholarship Fund.....	2,500.00
John P. Reynolds Medal Fund.....	1,000.00
Hemenway Squash Court.....	11,050.00
Carrie M. Hall (Nurses' Alumnae Association) ..	8,000.00
Radium Fund	3,000.00
Surgical Dressing Fund	10,000.00
Henry Clay Jackson Fund.....	58,000.00
Roentgenological Fund	140.00
Harvey Cushing Surgical Endowment Fund.....	500.00
Francis Weld Peabody Loan Fund.....	1,508.29
	<hr/>
	\$191,271.73

Unexpended Balances of Donations and of Income from Permanent Funds for Special Purposes:

G. Gorham Peters Fund.....	\$ 2,500.00
Fiction Library Fund.....	.27
Harvey Cushing Fellowship Fund.....	1,276.70
John P. Reynolds Scholarship Fund.....	176.85
Elliott C. Cutler Fund.....	3,445.24
Social Service Special Gift Fund.....	110.27
Special Permanent Charity Fund.....	25.56
Fund for Research in Renal and Vascular Disease	2,553.73
Boston Council of Social Agencies.....	47.38
Pernicious Anemia Fund.....	230.00
	<hr/>
	10,366.00
	<hr/>
	\$201,637.73
	<hr/> <hr/>

EDMUND D. CODMAN,
Treasurer.

Report of the Superintendent

THIS IS the twenty-fourth report of the Superintendent, covering the year 1937.

There were admitted to the wards 4,714 patients as compared with 4,712 last year. The number of days' care was 70,515, 2,078 more than in 1936. The average bed occupancy was 77+%, 2+% more than last year. The average stay per patient was 15— days, the same as in 1936. The percentage of free patients was 43+ in 1936, 46— this year. The per capita cost, based on the total expenditures (excepting the Out-Door Department) was \$7.35 a day as compared with \$7.15 last year. Deducting the cost of operating the private ward and the Out-Door Department, the per capita cost was \$6.77—. It was \$6.05 in 1936. The daily per capita cost for provisions for all persons fed averaged \$.44—, an increase of \$.03— over last year.

The total operating expenses for the year were \$574,046.49, and receipts from patients \$325,131.55. The difference, \$248,914.94, represents the amount of free service to the indigent sick of Suffolk County, to serve whom the Hospital was founded. The increase in operating cost was anticipated, as shown by our budget for the year, and our expenses were slightly below our estimates.

The restoration of 5% of the pay cut made in 1934 accounted for part of this increase, and the marked advances in the prices of foods and general supplies account for the balance. Our operating receipts were about \$5,000 better than we had anticipated.

The Community Federation has become more than an emergency fund raising organization. It is now recognized as an absolutely essential part of the com-

REPORT OF THE SUPERINTENDENT

munity to help the 109 agencies which participate to carry on the work for which they were founded. We are one of those agencies and are deeply thankful for the help it gives us. Without its aid, we should not be able to do anything like the amount of free work which we are called upon to do, and which otherwise would, of necessity, have to be done by tax-supported agencies or not at all. That the collection of funds by the campaign officers and the large number of volunteer solicitors is most efficiently and economically done we are certain and we here express our appreciation and thanks for their invaluable assistance. We believe we have deserved this assistance for again we repeat that since the Peter Bent Brigham Hospital was opened, no patient resident in Suffolk County has ever been refused admission because of inability to pay.

In the Out-Door Department, the number of new patients treated was 6,582. Last year, it was 6,756. The total number of visits was 81,175, 5,026 more than last year.

Allowances under the Federal Social Security Act, providing a social worker for follow-up work in the syphilis and gonorrhoea clinics, together with payment for other expenses, have been discontinued. In the place of this assistance, the Commonwealth of Massachusetts is now responsible by law for seeing that these patients receive adequate care, and is required to pay for the treatment of the patients who are unable to do so themselves. It is expected that under the new law, the Commonwealth of Massachusetts will reimburse the hospitals which cooperate in the care of syphilis and gonorrhoea cases so that the clinics shall be operated without loss to the respective hospitals.

The personnel of the Dietary Department remains unchanged from last year. Six student dietitians com-

PETER BENT BRIGHAM HOSPITAL

pleted a ten-month course during the year and have all been placed in responsible positions. The American Dietetic Association has constantly raised the standard of courses for student dietitians, to meet the ever-increasing demands of a dietitian and it has been our aim to keep our course ahead of these standards. We are considering a one-year course in the near future. The cafeteria service for all dining rooms has continued. We wish to resume waitress service at least for dinner when our finances permit. A heated truck for sending special diets from the diet kitchen to the wards is needed. For reasons of economy, we have not provided it this year. The total diet days for the year was 14,150, a slight increase over last year. The principal special diets were: Diabetic, 3,013; High Caloric-High Vitamin, 5,466; High Carbohydrate-Low Fat, 1,246; Obesity, 1,108; Low Residue, 1,110.

Dr. Norbert A. Wilhelm resigned March 31 to become Director of Butterworth Hospital, Grand Rapids, Michigan. Dr. Wilhelm came to us in 1930 as second assistant superintendent. He made an excellent record here as an administrative officer, was well informed as to methods in use in the larger hospitals generally, and showed much initiative. We are sure he will carry on his new task with credit to this Hospital and satisfaction to his new associates, and he left with our best wishes for future success. Dr. Winthrop B. Osgood was appointed as second assistant superintendent, and Dr. Wilson W. Knowlton was advanced to the position of first assistant superintendent.

On July 1, Miss Carrie M. Hall resigned her position as Superintendent of Nurses and Principal of the School of Nursing. Miss Hall came to the Hospital twenty-five years ago, organizing her department and having the first class enter on their pre-clinical courses before the

REPORT OF THE SUPERINTENDENT

Hospital opened its doors to receive patients in January, 1913. Miss Hall has always been an outstanding leader in the field of nursing and placed our School on an enviably high standard. On May 1, 1917, she went abroad as chief nurse of Base Hospital No. 5 (Harvard Medical School-Peter Bent Brigham Hospital Unit). She was later detached on May 11, 1918, as Chief Nurse, American Red Cross, for Great Britain. Later she became assistant to the Chief Nurse, American Red Cross, in France, and on November 12, 1918, became Chief Nurse of the Red Cross in France and Director of the Bureau of Nurses. She was mentioned in dispatches by Sir Douglas Haig, December 29, 1917, was awarded the Royal Red Cross, first class, by King George V, and the Médaille de la Reconnaissance Française, 2^{me} classe. She was released from service on August 5, 1919, and again resumed her work here. Miss Hall has been honored with high office in many local, state, and national nursing organizations in recognition of her outstanding qualities as a nurse, teacher, and organizer. It was with great regret that we parted with her as head of our School of Nursing. She has the great respect of all her former associates here and their best wishes for her future.

Miss Lucy Helen Beal, class of 1919, Peter Bent Brigham Hospital School of Nursing, has assumed directorship of the School. Since leaving us in 1927 after having been head nurse and supervisor for five years, Miss Beal further demonstrated her ability as a teacher and executive as head of the School of Nursing of Waterbury Hospital, Waterbury, Connecticut, and later in Syracuse Memorial Hospital, Syracuse, New York. We were glad to be able to secure her services as Miss Hall's successor.

PETER BENT BRIGHAM HOSPITAL

The Ladies' Social Service Committee has been active and among other accomplishments, raised money for the salary of a social worker for the Psychiatric Clinic in the Out-Door Department.

The Gray Lady Service of the American Red Cross furnished us with helpers in the otolaryngological, asthma, orthopedic, arthritic and gastro-intestinal clinics, and again took entire charge of the distribution of books from the Patients' Library. The Gray Lady Service, through twenty-six individuals, gave a total of 2,154 hours of service to the Hospital. On November 15, they began a new service to us—the making of surgical dressings and, to the end of December, have made a total of 9,800 dressings.

We wish here to record our sincere thanks to the Ladies' Committee and to the Gray Lady Service.

There were distributed from the Patients' Library during the year 3,181 books and 5,340 magazines. A total of 75 books were contributed—11 by Dr. Christian, 14 by Mrs. Eva Thomas, 7 each by Miss Eleanor J. Chase and Miss Edith Bassett, 6 from Mrs. John Robinson, 6 from Miss Hall, 5 from Mr. George Johns, and one or two books from many others. Forty-three new books were purchased. The following, all Gray Ladies, gave money for books: Mrs. Townsend, \$10.18; Mrs. Abbott, \$6.05; Mrs. Eddy, \$5.00; Mrs. John Robinson, \$5.00. We are particularly grateful to Miss Clara Mead who has so faithfully and efficiently directed the Gray Lady Service in carrying on the library work.

Each year, as the Hospital grows older, more extensive repairs and replacements are required. This year, the largest single item was complete replacement of the cold water mains. Previously iron pipe, they were replaced with brass, the largest being 6 inch.

Pavilions C and D were completely repainted.

REPORT OF THE SUPERINTENDENT

Space for out-patient records had long been filled and current records had to be stored at the opposite end of the out-door department building in the basement. To correct this, a circular stairway was installed from the record office to the basement. Adequate lighting, heating and ventilation were furnished and a Lamson carrier for the patients' histories operated between the new record room and the main office. This great improvement allows efficient service with much saving of labor and time, and will give us filing space for many years to come.

The future of the voluntary hospitals such as the Peter Bent Brigham Hospital is a matter of great concern to all, particularly to the younger hospitals, and will depend on our increasing our endowment. Annual contributions will help to defray ordinary expenses but will not probably, for some time at least, help us materially to supply the equipment for keeping the Hospital on the highest level of diagnostic and therapeutic efficiency.

The need of many improvements and additions have from year to year been mentioned in the Superintendent's report. Most of these have not been done on account of the prolonged depression. Their urgent need still remains.

Tables II, III, and IV following this report, give a more detailed account of the Hospital finances and statistics for comparison with other years.

In closing, I wish to express to the members of the Corporation my appreciation of their support. To all members of the staff and employees, I record here my deep appreciation of their loyalty, cooperation, and often self-sacrificing devotion to the Hospital.

JOSEPH B. HOWLAND,
Superintendent.

DECEMBER 31, 1937.

PETER BENT BRIGHAM HOSPITAL

Table I

(This table is being omitted this year)

Table II

Comparative Tables of Statistics

HOSPITAL WARDS AND SINGLE ROOMS

Patients in hospital first of year:		
	1937	1936
Medical	87	73
Surgical	90	83
	<hr/>	<hr/>
Total	177	156
Patients admitted during the year:		
Medical	1,974	1,967
Surgical	2,740	2,745
	<hr/>	<hr/>
Total	4,714	4,712
Patients treated in hospital wards and private rooms during the year:		
Medical	2,061	2,040
Surgical	2,830	2,828
	<hr/>	<hr/>
Total	4,891	4,868
Patients discharged during the year:		
Well	8	30
Improved	3,926	3,752
Unimproved	324	363
Untreated	105	209
Died	356	337
	<hr/>	<hr/>
Total	4,719	4,691

REPORT OF THE SUPERINTENDENT

Patients in hospital end of year :

	1937	1936
Medical	83	87
Surgical	89	90
Total	<u>172</u>	<u>177</u>

Total patients days' treatment :

Paying patients	38,135	38,746
Free patients	32,380	29,691
Total	<u>70,515</u>	<u>68,437</u>

Percentage :

Paying patients	54+	57—
Free patients	46—	43+
Total	<u>100</u>	<u>100</u>

Average patients per day :

Paying patients	104+	106+
Free patients	89—	81+
Total	<u>193+</u>	<u>187+</u>

Medical	91+	89—
Surgical	102+	99—
Total	<u>193+</u>	<u>187+</u>

Average time per patient in hospital	15—days	15—days
Daily average cost per patient.....	\$7.35+	\$7.15+
Daily cost per capita for provisions for all persons supported .....	.44—	.41+

Patients were admitted as follows :

Paying regular rate	2,094	2,212
Paying less than regular rate	1,310	1,268
Free	1,310	1,232
Total	<u>4,714</u>	<u>4,712</u>

PETER BENT BRIGHAM HOSPITAL

OUT-DOOR DEPARTMENT

	1937	1936
Number of cases treated	6,582	6,756
Medical	2,386	2,689
Surgical	3,997	3,907
Urological	199	160
Number of visits	81,175	76,149
Medical	41,823	38,856
Surgical	34,722	31,818
Urological	4,630	5,475
Cost of maintenance of Out-Door Department	\$57,337.39	\$51,442.85
Daily average cost per patient .....	.71—	.68—

AMBULANCE

Ambulance calls during the year	607	608
Average calls per day	2—	2—
Mileage for patients	4,128	3,804
Other business	3,254	4,495
Total mileage	<u>7,382</u>	<u>8,299</u>

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 pro-visions 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	676,080.08	447,258.14	4,121	77,852	18—days	*7.68—	.49—	51,456.67	7,595	71,188	.72+
1931	652,391.94	418,586.38	4,056	72,256	18—days	*8.00+	.43+	47,962.10	8,173	78,786	.61—
1932	554,140.48	331,787.15	4,220	68,301	16+days	*7.49+	.36+	46,715.77	7,976	80,272	.57—
1933	512,849.91	257,739.65	4,272	64,642	15+days	*7.60—	.32+	47,748.57	7,571	83,533	.57+
1934	527,423.88	294,231.34	4,373	69,372	16—days	*7.15+	.36—	44,743.52	7,461	77,728	.58—
1935	515,187.70	285,814.91	4,422	68,108	15+days	*7.10—	.39+	51,442.85	6,756	76,149	.68—
1936	538,047.36	321,937.86	4,712	68,437	15—days	*7.40—	.41+	57,337.39	6,582	81,175	.71—
1937	574,046.49	325,131.55	4,714	70,515	15—days	*7.35+	.44—				

*From 1923 cost of special nurses not included.

PETER BENT BRIGHAM HOSPITAL

Table IV
Expense and Revenue Statement
FOR TWELVE MONTHS OF 1937

ADMINISTRATION EXPENSES		
	1937	1936
Salaries and wages	\$ 41,267.99	\$ 39,927.87
Supplies	7,020.46	5,538.16
Miscellaneous	5,895.11	6,998.30
Total administration ..	\$ 54,183.56	\$ 52,464.33
DIETARY		
Salaries and wages	\$ 22,535.36	\$ 21,270.50
Food:		
Bread	3,024.84	2,623.98
Milk and cream	15,814.93	14,595.26
Groceries	17,606.90	16,797.24
Butter and eggs	12,768.99	12,762.62
Fruit and vegetables	10,550.09	10,273.35
Meat, poultry and fish	26,882.39	24,740.59
Supplies	3,448.09	2,809.70
Miscellaneous	2,370.75	2,464.15
Total dietary	\$115,002.34	\$108,337.39
HOUSE AND PROPERTY		
<i>Housekeeping:</i>		
Salaries and wages	\$ 25,181.63	\$ 22,445.07
Supplies	12,452.03	11,516.04
Miscellaneous		
	\$ 37,633.66	\$ 33,961.11
<i>Laundry:</i>		
Salaries and wages	\$ 13,806.40	\$ 12,648.67
Supplies	2,378.82	2,269.06
Miscellaneous		15,016.92
	16,185.22	29,934.65
<i>Heat, Light, Power and Water:</i>		
Salaries and wages	\$ 3,191.10	\$ 3,054.71
Supplies	2,604.70	226.88
Miscellaneous	61,068.65	32,158.23
	66,864.45	35,439.82
<i>Maintenance and Repairs:</i>		
Salaries and wages	\$ 16,344.02	\$ 15,817.25
Supplies	3,990.84	5,090.36
Miscellaneous	1,178.28	78.15
	21,513.14	20,985.76
<i>Amount carried forward</i>	\$142,196.47	\$120,321.34

REPORT OF THE SUPERINTENDENT

	1937	1936
<i>Amount brought forward</i>	\$142,196.47	\$120,321.34
<i>Motor Service:</i>		
Salaries and wages	\$ 2,269.42	\$ 2,128.64
Supplies	310.74	452.92
Miscellaneous	449.28	560.80
	3,029.44	3,142.36
 Total house and property	 \$145,225.91	 \$123,463.70

Heat, Light and Power charged to Laundry, Nursing Service, Laboratories, Operating Room and Out-door Department in 1936 included in one heading, Heat, Light and Power in 1937.

PROFESSIONAL SERVICES

<i>Medical and Surgical Service:</i>		
Salaries and wages	\$ 26,069.80	\$ 23,928.76
Supplies	23,186.90	20,774.92
Miscellaneous . . . . .	. . . . .	. . . . .
	\$ 49,256.70	\$ 44,703.68
<i>Nursing Service and Education:</i>		
Salaries and wages	\$ 70,767.32	\$ 65,095.32
Supplies	5,567.99	7,436.21
Miscellaneous . . . . .	. . . . .	2,474.61
	76,335.31	75,006.14
<i>Medical Records and Libraries:</i>		
Salaries and wages	\$ 11,839.37	\$ 12,046.86
Supplies	1,527.60	1,431.57
Miscellaneous	800.00	800.00
	14,166.97	14,278.43
<i>Social Service:</i>		
Salaries and wages	\$ 7,537.23	\$ 8,608.66
Supplies	374.11*	169.71
Miscellaneous	367.50	229.03
	7,530.62	9,007.40
<i>X-ray Service:</i>		
Salaries and wages	\$ 22,565.35	\$ 21,477.86
Supplies	13,792.20	12,997.22
Miscellaneous	267.30	311.30
	36,624.85	34,786.38
<i>Laboratories:</i>		
Salaries and wages	\$ 13,670.89	\$ 13,512.63
Supplies	6,097.24	7,047.80
Miscellaneous . . . . .	. . . . .	2,808.65
	19,768.13	23,369.08
 <i>Amount carried forward</i>	 \$203,682.58	 \$201,151.11

* Deficit.

PETER BENT BRIGHAM HOSPITAL

	1937	1936
<i>Amount brought forward</i>	\$203,682.58	\$201,151.11
<i>Pharmacy:</i>		
Salaries and wages \$ 5,337.79		\$ 5,139.62
Supplies 116.06		36.29
Miscellaneous		
	<u>5,453.85</u>	<u>5,175.91</u>
<i>Operating Room:</i>		
Salaries and wages \$ 8,186.28		\$ 7,393.25
Supplies 13,003.27		11,879.73
Miscellaneous		427.74
	<u>21,189.55</u>	<u>19,700.72</u>
Total professional services	\$230,325.98	\$226,027.74

OUT-DOOR DEPARTMENT

Salaries and wages \$ 17,049.88		\$ 15,212.84
Supplies 13,980.10		12,071.02
Miscellaneous		3,426.12
	<u></u>	<u></u>
Total out-door department	\$ 31,029.98	\$ 30,709.98

SPECIAL FUNDS

Elliott C. Cutler Fund \$ 1,938.48		\$ 3,203.88
Fiction Library Fund 36.40		19.80
Renal and Vascular Disease Fund 742.27		1,284.76
Reynolds Scholarship 100.00		125.00
Social Service Special Gift Fund 1,315.89		1,007.86
Special Permanent Charity Fund 812.64		950.05
Superintendent's Special Fund 786.25		2,124.51
Harvey Cushing Fellowship Fund 2,766.66		925.00
United Unemployment Fund 868.71		769.79
Pernicious Anemia Fund 100.00		92.54
Arthritic Fund		377.41
Diabetic Fund		5.56
	<u></u>	<u></u>
Total Special Funds	\$ 9,467.30	\$ 10,886.16

REPORT OF THE SUPERINTENDENT

SUMMARY

<i>Expenses:</i>	1937	1936
Total administration	\$ 54,183.56	\$ 52,464.33
Total dietary	115,002.34	108,337.39
Total house and property	145,225.91	123,463.70
Total professional services	230,325.98	226,027.74
Total out-door department	31,029.98	30,709.98
	<hr/>	<hr/>
	\$575,767.77	\$541,003.14
Inventory adjustment	1,695.28	2,955.78
	<hr/>	<hr/>
Total hospital expense	\$574,072.49	\$538,047.36
 <i>Revenue:</i>		
Board of private ward patients	\$ 77,138.08	\$ 72,857.70
Board of ward pay patients	82,986.08	81,448.69
Board of special nurses	3,600.26	3,507.30
Special nurses	32,397.14	31,309.35
Medicine and supplies	7,737.49	7,618.21
Motor vehicles	2,098.81	2,360.65
Special professional services:		
Operating room	15,722.53	17,498.50
X-ray services	42,755.47	42,378.29
Laboratories	10,241.59	10,038.43
Physiotherapy	83.40	50.75
Other special services	717.00	633.00
Miscellaneous earnings	4,813.27	3,895.78
Out-door department	44,840.43	42,725.52
Social service department .....	.....	5,615.69
	<hr/>	<hr/>
Total hospital receipts	\$325,131.55	\$321,937.86

Statement of Stock on Hand

	1937	1936
Administration supplies'	\$ 3,719.69	\$ 3,354.39
Dietary	6,671.46	5,356.65
House and Property	8,584.31	10,040.21
Medical Service	16,339.34	14,868.27
	<hr/>	<hr/>
	\$35,314.80	\$33,619.52

Report of the Roentgenologist

SHORTLY AFTER the end of this calendar year 1937 and probably before the twenty-fifth reunion, a milestone will be reached in the X-ray Department. When the present Roentgenologist joined the Brigham family in March, 1922, patient No. 24,240 was being examined. Sometime in February, 1938, we expect to put on our records the name, age and address of patient No. 100,000. He (or she) will probably be from Roxbury, will probably be examined for a fracture, and will probably pay nothing for the X-ray examination, if all of the statistical probabilities merge into one typical patient. There will be no speeches, no reporters or press photographers and no bouquets at this ceremony, but we may require the services of an interpreter. Patient No. 100,000 will not be with us for X-ray therapy, as separate serial numbers are used in the Therapy Department. All of this means that shortly we shall have officially examined 100,000 separate and distinct persons in our little department since it first opened in September, 1913. Seventy-six thousand of them have been seen in the last sixteen years. On the average, each patient is examined two and a half times, with two and a half films per examination. (Occasionally we get fractions of patients, but they are not recorded officially as examinations.) By ordinary mathematics, then, we have taken about 625,000 X-ray films in our department during its short but interesting life. Strangely enough, if we average the length of our films, we get a fraction over eleven inches as the result and if each patient's films were laid end to end they would equal the average height of the patient. Furthermore, if the 100,000 patients were laid end to end, they would reach from the base-

REPORT OF THE ROENTGENOLOGIST

ment of the Brigham all the way to some place in Connecticut where no one would think of going even for a class reunion!

The total age of the 100,000 patients would be about 4.8 million years, which would put us back into the Late Tertiary period of geological speculation, or forward into the age of the totalitarian state and federalized medicine—reckoning backward or forward depending respectively whether one is over or under forty-five years of age.

Likewise, the cost of the *circa* 625,000 films used exceeds all of the salaries, wages, emoluments and bonuses paid to all persons in the X-ray department since its inception. (There have been no emoluments or bonuses as far as I know.) Furthermore, the cash value of the obsolete films is greater than the surrender value of the obsolete patients, as the latter serve only to clutter up the records of the Pathological Department and occasionally to upset a careful and hitherto correct diagnosis, while the former are worth eleven cents a pound for old silver and celluloid.

Finally, in this statistical nightmare, may we point out that since the X-ray department first became self-supporting under Larry Reynolds in 1920, the cash receipts from the department have exceeded the expenses by \$92,700.00,¹ more than enough to equip the department with all modern improvements, including hot and cold running orderlies.²

Actually, the routine work has increased again this year to a record-breaking total of 14,500³ patient-visits, with increases from all sources except the medical wards

¹ These figures are taken from the annual reports of the superintendent and do not include charges for space, nor for new equipment (we haven't any, anyway, except the therapy machine noted in last year's report).

² The majority of complaints against the x-ray department concern the waiting in corridors—waiting for orderlies or nurses more than for technical work.

³ Our modest Republican figures cannot be compared with those of our larger sister hospitals unless one notes that there were 4,714 admissions to the hospital wards and 6,582 new patients in the out-door department during 1937.

PETER BENT BRIGHAM HOSPITAL

where there was a slight decrease of 120 less than in 1936. Especially noteworthy is the increase in therapeutic work of 800 patient-visits (in part due to the larger number of treatments given to each patient) and the increase in the number of private patients from the physicians outside the Hospital. This group of private patients is the deciding factor between a deficit and a net balance in the departmental finances. The cost per case has been steadily lowered each year from 1930 and has again fallen appreciably this year. Counting the cash outlay as against the total number of patient-visits, the cost per case is \$2.67 for 1937, the lowest figure since 1924. This is the result of rigid economy and lack of replacements, with the sacrifice of completeness and efficiency, if not of accuracy. Our crying need is for a thorough rejuvenation of the equipment with more commodious and more healthful quarters to care for the steadily increasing amount of work. The department has about reached its capacity under the present set-up and any further increase will require additions to technical and clerical personnel as well as mechanical equipment. The pressure of routine work has prevented the completion of several clinical studies undertaken in the last two years so that nothing of any importance has been published from the department during that time in spite of the fact that quite a few clinical talks were given before various societies in these two years.

We are glad to report that photographs have been received from all former house officers in roentgenology and from all who have held official appointments in the department. There have been sixteen men with at least one year's service in roentgenology and five volunteer graduate assistants who have worked six months or more with us. This year we have accepted two more volunteers, Dr. A. C. Johnston from Berlin, New Hamp-

REPORT OF THE ROENTGENOLOGIST

shire, partly under the ægis of the Commonwealth Fund, and Dr. L. H. Athle, of Bombay, India, on the recommendation of Dr. John Spies, Director of the Tata Memorial Hospital at Bombay.

Begun as a one-year service under Dr. Reynolds in 1919, the position of house officer in roentgenology was first filled by Dr. Charles Wadsworth Schwartz, now practicing his specialty in New York City, and director of the department at the Neurological Institute. The service was increased to two years in 1926, Dr. L. M. Fetner being the first incumbent under this scheme. "Fet" is now practicing his specialty in his native state of North Carolina. Two years ago, the service was increased to three years, with training in the basic sciences during part of the first year. Dr. John E. Larkin, now junior assistant resident, was the first appointee under this scheme. Recognizing the financial difficulties in such a long course of training, small salaries were voted by the Trustees for the appointees in the second and third years, amounting to \$500 and \$750, respectively. It is hoped that we can eventually raise these and that we can also pay the first-year man a small salary, as he must by our regulations have had at least one year's internship before being accepted.

Of the sixteen former house officers and assistant residents in roentgenology, all but two have devoted their full time to roentgenology, and the other two are using the X-ray in their practice. Half of them are heads of the department of roentgenology in important institutions and the other half are part-time in hospitals and in private practice. Several of them outrank their teacher in academic rating. All of them and all of the former roentgenologists are cordially invited, yes, urged, to join the rest of the Brigham family at the twenty-fifth reunion next May, and some have already signified their

PETER BENT BRIGHAM HOSPITAL

intention of celebrating our first quarter of a century of service.

The training of roentgenologists as noted above has become more arduous and more time-consuming, and the demand for well-trained men far exceeds the supply. According to a recent survey by Dr. Holmes, the supply is only half the demand. But the inevitable sequence follows that when poorly trained men enter the field, they must be content with the less satisfactory positions, and in many places, the status of roentgenology is far from satisfactory, largely because adequately trained men are not available. While we have not increased our output of resident-trained men, which is one a year, as before, we have attempted to meet the demand by accepting post-graduates and volunteer assistants for shorter periods of training, provided they have been found qualified to benefit by their opportunities. This type of trainee is usually being groomed for service in a community hospital where no adequately trained or experienced roentgenologist is available. Several men have come to us for this sort of intensive short-term training with the support and backing of foundations such as the Commonwealth Fund, and most of the reports from these men so placed fully justify the time and trouble taken with them. They are apt to form the nucleus of a local or community medical group with the best of the work centered in a small hospital. This is particularly true where a similarly trained pathologist is available to cooperate with the roentgenologist and at the same time to furnish an adequate check upon his work to the great benefit of medicine and surgery in that vicinity.

Another problem yet to be solved is the question of the general practitioner who wishes to do his own X-ray work as far as he can, and also the specialist or internist

REPORT OF THE ROENTGENOLOGIST

who does the X-ray work pertinent to his own field. Shall we encourage them and help them as much as we can? Shall we teach the internes in surgery and medicine how to use the fluoroscope as medical students are taught to use the stethoscope and the ophthalmoscope? Is the future of roentgenology a specialty embracing all branches, or will it be a consultation service with the general practitioner doing his own routine work? Certainly many practitioners are now doing their own X-ray work, and, where no roentgenologist or hospital is available, their ideal of better diagnosis and greater service to the patient is most laudable. Unfortunately, however, many have purchased machines chiefly for the purpose of increasing their own revenue with the assurance of the salesman that "if you get stuck, you can always take the films to Dr. X at hospital Y who is glad to help you out." To me this certainly seems to be obtaining money under false pretenses, charging the patient a regular fee for X-ray examination which is usually not well done and then sponging on the full-time roentgenologist for a free opinion—often with films of inferior quality and insufficient detail. We have tried to cover the situation by accepting as graduate students through the Medical School only the men who have already had some experience in roentgenology. For the short periods of observation and study of as little as one month, we select as far as possible those men who are doing their own X-ray work because no one else is available, and particularly those in smaller communities who need help and instruction. As to students, the day may yet come when each medical student will be trained to fluoroscope each chest and heart case as well as to percuss and auscultate. Certainly it would do no harm to look for what they think they hear provided they know how to look.

PETER BENT BRIGHAM HOSPITAL

The character of our work shows no appreciable shift except for an accession of ulcers late in the year coincident with the recession in employment and in business. No doubt a similar increase in the other diseases such as angina pectoris where worry is a contributing factor could also be found if strict search were made. It bids fair to be a good year for twisted ankles and knees and for new cases of Pellegrini-Stieda's disease if the present epidemic of skiing continues. Unfortunately, many of our Pellegrini-Stieda candidates are students, nurses, house officers and doctors, who do not raise the assets of the department and may even cripple the School or Hospital as well as themselves. A pernicious form of exercise, indeed—yes, I am growing old!

Our changes in personnel this year included the graduation of Dr. William N. Myhre after two years' work to a splendid position in internal medicine in his native city of Spokane, Washington. To fill out the third year of his training, we selected Dr. David A. Sampson of Saskatchewan as Senior Assistant Resident. He had his previous training in the Toronto General Hospital, the Royal Victoria in Montreal, and the Massachusetts General Hospital in Boston. Dr. John C. Larkin was raised to the position of Junior Assistant Resident, and Dr. Wallace C. Miller, a graduate of Loyola Medical School in Chicago, was appointed House Officer. We regret to record the departure of Miss Henrietta Decrow, who resigned in September to get married. Our best wishes go with her to Syracuse. Her place has been filled by Miss Marion Shoemaker, a Brigham graduate of the class of 1930. Fortunately, there have been no other changes in the technical or clerical staff.

REPORT OF THE ROENTGENOLOGIST

May we end this annual report with another cordial invitation to all former members of the department to attend the reunion celebrating the twenty-fifth anniversary of the Hospital May 5, 6, and 7, 1938? It is a unique privilege to belong to a hospital family such as ours, a hospital with an individuality and a personality partaking of the characters of all of its constituent members, but particularly flavored by Dr. Cushing and Dr. Christian. Come and enjoy yourselves and let us enjoy seeing you again.

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

DECEMBER 31, 1937.

TABULATION OF DATA, FIVE-YEAR PERIODS

YEAR	Ward Cases	O. D. D. Cases	Private	All Others	Totals	X-ray Treatments	Films Taken	Dental Films	Alpine Lamp Treatments
1917	1,950	2,006	87	164	4,608	257	8,756	2,202	. . . .
1922	3,200	3,207	698	191	7,303	629	13,696	2,457	. . . .
1927	4,307	3,924	1,061	477	9,769	490	24,270	3,019	1,264
1932	4,202	4,630	1,126	354	10,312	1,539	22,782	6,597	665
1937	5,220	6,615	2,026	640	14,501	3,685	28,604	4,855	333

Report of the School of Nursing

AFTER ORGANIZING and building a new school, its founder cannot withdraw from those activities without such withdrawal having a profound effect. When Carrie M. Hall, Superintendent of Nurses and Principal of the School of Nursing of the Peter Bent Brigham Hospital, retired on July 1, 1937, after twenty-five years of service, our School lost an able and courageous leader. To have built a school which in so short a time was to receive national recognition shows outstanding ability for organization on her part, and reflects the standards for which the Hospital has always been known. Graduating from the Massachusetts General Hospital in 1904, Miss Hall came to her new post in July, 1912, having had special preparation at Teachers College, Columbia University, and having held positions as head nurse, assistant superintendent, and superintendent of a hospital in immediate succession.

During the World War, Miss Hall was called to the service of her country for a period of two and one-half years, serving both in England and France, first as Chief Nurse of Base Hospital No. 5 in France, and later as Chief Nurse of the American Red Cross in Great Britain and then in France. For these services, war citations were conferred upon her. She was awarded the Royal Red Cross, first class, by King George V "in recognition of meritorious service rendered the Allies' cause," La Médailles de la Reconnaissance Française, de 2^{me} classe, by the French Government, and the Médaille Florence Nightingale by the Commission of the International Red Cross for "Infirmières diplômées qui se sont distinguées d'une façon exceptionnelle par leur grand dévouement."

REPORT OF THE SCHOOL OF NURSING

During the years following her return to the United States, Miss Hall held positions of leadership in both state and national nursing organizations during the time when many studies for establishing professional standards for nursing were evolving. Her identification with activities for the promotion of standards in nursing throughout her career have helped to bring recognition to this School. That its organization was substantially sound and was motivated by the highest ideals for the profession, are a reflection of the personal characteristics of its founder. A New Englander, born and bred, Miss Hall has conducted the School with a directness, simplicity and thoroughness that has brought it recognition, while at the same time she has been the inspiration of those professional ideals, breadth of view and vision that has carried numbers of our graduates on to wider fields of endeavor. That her influence may continue is our earnest desire, and to this end, such changes as the demands of our day make upon our course should be effected.

During this year, the following changes in staffing have occurred. On August 1, 1937, Frances Bowen, P. B. B. H. 1924, succeeded Nell A. Hostetler, who held a temporary appointment as Assistant Superintendent of Nurses. Miss Bowen comes to us well prepared for this position, both by special preparation and by experience. On July 6, 1937, Bernice J. Sinclair, P. B. B. H. 1924, returned as Instructor of Nursing Arts after a year's leave of absence, during which time she received her Bachelor of Science degree from Columbia University. In April, Ruth Miller, P. B. B. H. 1936, was appointed Assistant Night Supervisor. On August 1, 1937, Marion Shoemaker, P. B. B. H. 1930, succeeded Henrietta Decrow as Head Nurse in the X-ray Department. After ten years of efficient and loyal service, Rachel T.

PETER BENT BRIGHAM HOSPITAL

Adams, P. B. B. H. 1924, Supervisor of the Out-Door Department, resigned on September 15, 1937, to accept a similar position at Michael Reese Hospital in Chicago. To fill this vacancy, Helen Aikins, P. B. B. H. 1930, Surgical Supervisor, was released, and Ethel M. Jordan, P. B. B. H. 1931, a head nurse, was promoted to Surgical Supervisor. Other promotions have been made to head nurse positions from the general staff.

During the summer, leaves of absence were granted to Esther Kinney and Marian Eastman to study at Simmons College, and to Helen Aikins to study at Boston University. Miss Eastman was released following this period to accept a head nurse appointment at the Allegheny General Hospital in Pittsburgh, Pennsylvania. This winter, Anita Engen, 1935, Irene Tarala, 1935, and Madeline Condon, 1935, have been taking the course in Head Nursing at Simmons College.

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	4
Night Supervisors	2
Graduate Head Nurses and Assistants in Departments	16
Graduate Nurse Anesthetists	3
Graduate Nurses—X-ray Department.....	3
Graduate Nurse—Out-Door Department—in employ of State Department of Health	1
Graduate Floor Duty Nurses	18
Graduate Nurse—Metabolism Laboratory—part time	1
Student Nurses	115

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REPORT OF THE SCHOOL OF NURSING

Forty-four students entered. Forty-two have been graduated. Fourteen have withdrawn.

Though there is an increase in the number of graduates employed for bedside care, the total is greater by only one half-time person. In order that patient care should not be to so great an extent dependent upon undergraduate students, such staffing is practicable and should be understood as a desirable policy rather than an imminent necessity.

The affiliation with the School of Nursing at the Children's Hospital has continued, and thirty-two students have been accepted for six months' experience in adult nursing.

The last group of students in the five-year combined program with Simmons College completed their hospital experience in September, 1937, and returned to Simmons College for their final year at the College. They are eight in number. One of them has majored in Teaching and one in Head Nursing, and both are receiving their field experience in the Brigham Hospital. Two graduate nurses from Simmons College have been accepted for field experience in Head Nursing. This past summer, freshman students from the Simmons College School of Nursing again had their first six weeks of instruction and practice in our Hospital. On January 25, 1937, seven junior students from this same school came to us as affiliating students for one year's experience in adult medical and surgical nursing.

The twenty-third annual graduation exercises were held November 19, 1937, in the Assembly Hall at Simmons College. Mr. Amory, President of the Corporation, presided. Forty-five nurses were presented for diplomas. The Dr. John P. Reynolds gold medal for general efficiency was awarded to Ada Dorothy Bragdon. The John P. Reynolds scholarship for highest

PETER BENT BRIGHAM HOSPITAL

rank at the end of the second year was awarded to Thelma Adelaide Cole. Dr. Henry A. Christian, Hersey Professor of Theory and Practice of Physics, Harvard Medical School, and Physician-in-Chief, Peter Bent Brigham Hospital, gave a very interesting address.

Looking back over the first quarter of a century of the existence of this School, these annual reports record its progress. It has weathered the vicissitudes of the World War and the depression, the former giving an impetus to the enrollment of students which was short-lived, the latter affecting only slightly the enrollment, but seriously the maintaining of standards. During this period, many studies have been made of nursing as to duties the nurse should perform, the professional preparation, preliminary education, distribution of her services, as well as the economics of nursing from the point of view of both the nurse and the employers of nurses. In the report of this School of Nursing for 1928, Miss Hall referred to the findings of the Grading Committee, outlining its recommendations and making further recommendations as to how they might be applied to this School. In summary they were as follows:

1. A permanent staff of graduate nurses for bedside care to supplement the student group.
2. A new system of nursing education on a level comparable to other professions, instead of the present well-trenched apprenticeship system.
3. The securing of a separate endowment for the School of Nursing.

Nearly ten years have passed, years of financial stress in which no approach to these standards has seemed possible. In the meantime, factors affecting nursing schools and the prospective student have not stood still. As time goes on, these needs become more urgent if we are to maintain the quality of nursing service in which

REPORT OF THE SCHOOL OF NURSING

we believe, and our place with the better schools in the country. Two imminent needs which should receive immediate attention are, first, the improvement of our educational program to attract the type of applicant we wish, and second, supplementing our student group with a permanent graduate staff.

Within this period, studies by the Grading Committee and other publications about nursing, such as the "Essentials of a Good School of Nursing," have made counsellors in high schools and colleges better informed, and prospective applicants more intelligent in their selection of a school. This cannot help but have its effect on candidates for our own School. With competition keen in nearly every walk of life, young people are not approaching a life work without forethought, and in selecting a professional school, that school which has the most to offer is having no dearth of applicants, as evidenced by those schools connected with colleges and universities. No thinking young woman is going to enter a school in which it is known that its students are the most overworked students in any profession, or a profession in which she has been led to believe there is so much overcrowding. Where once we were able to select only those whom we wished to accept from a large number of applicants, records show that the enrollment in our School has not, since 1928, reached the 140 mark, and during the year 1937, out of 1,001 letters of inquiry, from the comparatively small number of applications filed, we were able to select only forty-four acceptable candidates. Though the limitations of the clinical experience available will always affect the enrollment in our school, and a place has been reserved to accommodate affiliating students, the significance of a constantly diminishing enrollment should not be overlooked.

PETER BENT BRIGHAM HOSPITAL

Social changes taking place in the world today, as well as the advance in scientific knowledge, are making new demands upon nurses, so that the preparation given in the past no longer meets the needs of the present. That the community should be provided with the type and quality of nursing service, not only to provide adequate care during illness but also to prevent illness and maintain health, is the primary function of a school of nursing.

The Peter Bent Brigham Hospital offers an excellent field for the preparation of nurses, with its own active medical and surgical services, and opportunity for affiliation in special hospitals. However, to prepare nurses today to fulfill, adequately, community needs, their education should be extended to include such experiences as psychiatric nursing and public health nursing, and provision made to use to the fullest extent facilities available within the hospital. One of our great weaknesses is in our utilization of these facilities because of insufficient personnel. Within the past year, a request has been made for additional instructors to carry on the teaching, since any improvement in our present program is quite impossible with an already overworked faculty. Additional teaching facilities such as classrooms, laboratories, library and recreational accommodation have many times been indicated as a necessity, as they are in any well-regulated school. Though minor changes such as new equipment in our classrooms to make them more nearly like our ward situation, additions to our library, and some revision of our curriculum are constantly taking place, they are not sufficient to materially affect our program.

While studies have given us much information which is useful to us in analyzing our educational program, and helpful in showing us our professional shortcomings,

REPORT OF THE SCHOOL OF NURSING

we have made too little use of the inferences to raise our educational standards or to materially affect the distribution of our service. Such studies show that while there is unemployment in nursing because of inadequate preparation, there is also a shortage of qualified nurses in the fields of public health, teaching, supervision and administration. Though specialization may be indicated for second-level positions in nursing, there is need for first enriching and broadening the basic professional course which every nurse should have.

While in other fields, educational standards have constantly advanced, nursing education has lagged behind and continued to function on the apprenticeship plan because student service is profitable to hospitals. In this Hospital, the students in our School have, for years, meant a saving of some \$20,000 or more annually, because of the bedside care they give to our patients. Until such time as our program is enriched to give to young women interested in nursing the kind of preparation that is going to qualify them to render a truly professional service, no change in number or type of applicant to our School can be expected. On the other hand, other schools with which we compete are constantly improving their educational programs.

It is, therefore, most essential that without delay we improve our own educational program, and begin to approach those recommendations made nearly ten years ago by Miss Hall. Though this will eventually mean endowment, monies have been secured for other purposes for the Hospital, and can be for so important a function as its nursing.

It is obvious that our educational program should not be financed either from funds provided for the care of the sick or from the apprentice labor of students. Students in a nursing school can and should pay tuition, but

PETER BENT BRIGHAM HOSPITAL

just as in any other form of education, endowment is necessary, and the problem cannot be met in any other way. In other professional fields, as medicine and law, the community has recognized its responsibility. It acknowledges that well-trained doctors and lawyers are necessary to the public welfare, and has provided educational endowments. When understood, similar support can be secured for nursing. As we complete the first quarter of a century of our existence, and look forward to the second quarter, should we not anticipate this need and definitely plan for its accomplishment?

LUCY H. BEAL,
*Superintendent of Nurses and
Principal, School of Nursing.*

DECEMBER 31, 1937.

Report of the Social Service Department

CURRENT ECONOMIC trends generally are reflected early in our department and this year has been no exception. The Peter Bent Brigham Hospital still accepts all welfare cases coming from Suffolk County and since these automatically come to the attention of Social Service when needing X-rays and medicines, a great deal of detailed work has been placed upon us.

Social Service sent back a medical report on each one of these cases and, although brief, it gives a comprehensive picture of the whole problem, for it contains not only a diagnosis, a prognosis and recommendations for treatment, but also an analysis of the disability of the patient and his ability to work. Of these there were 1,194.

Of the 1,808 cases which were referred for some definite social problem last year, 50 were accepted for detailed study and treatment, 461 were assumed for somewhat less comprehensive care and 745 became cases only because they required some form of inquiry, followed by some small services. Another group of 230 involved examination and inquiry, resulting in no evidence of need for social treatment.

As in previous years, the work in the various clinics has presented every conceivable phase. Our primary aim has been to help our patients to make various adjustments in their mode of living consistent with their physical condition, but this could not have been accomplished without the splendid cooperation of outside agencies, of our own Ladies' Committee, which gave so generously of time and money, of the Red Cross Motor Corps, which rendered such invaluable service in trans-

PETER BENT BRIGHAM HOSPITAL

porting patients to and from clinics and on other special trips, and to other interested individuals who responded so generously to our appeals for various appliances and for other special needs.

STATISTICS FOR SOCIAL SERVICE DEPARTMENT FOR YEAR 1937

Group I:

Carried over from preceding year	16
New cases	19
Reinstated	15
	<hr/>
Total	50
Closed	41
	<hr/>
Carried over	9

Group II:

Carried over from preceding year	58
New cases	343
Reinstated	60
	<hr/>
Total	461
Closed	414
	<hr/>
Carried over	47

Group III:

Total cases for 1937	1,167
New cases	745
Reinstated	422

Group IV:

a. Social study terminated during year	230
(1) Social examination	0
(2) Social inquiry	230
b. New in Social Service Department during year	230

Psychiatric Clinic

Since last July, we have had the services of a trained psychiatric social worker and her presence has added

REPORT OF THE SOCIAL SERVICE DEPARTMENT

materially to the efficiency of the clinic. Until that time, a volunteer had acted as clinic secretary and had done her best to care for the more evident social problems. With the coming of the Psychiatric Social Worker, this volunteer was made a paid worker, still to act as clinic secretary and to assist with the case work.

Every effort has been made to create an atmosphere of friendliness and understanding in this clinic and many patients with worries over conditions which to them seemed almost insurmountable have been helped through various crises by a sympathetic evaluation of their situations.

One of the most interesting departures in the work of this clinic has been a Clinic for Adolescents, Saturday mornings. Here many behavior problems can be analyzed and treated, and situations in home and school corrected, before they have left any permanent mark upon the patient. If young people can be treated in the early stages, many psychiatric problems of later years can be prevented.

Long periods of waiting which are often unavoidable in the Psychiatric Clinic are often lightened by the interchange of ideas between workers and patients and between the patients themselves. The worker's opinions on varied subjects are sought and given, and the subjects range from the question of the proper amount of sleep for a three-year-old child to the advisability of smoking for the woman of forty.

Each new patient to the clinics is interviewed by the social worker who takes his detailed social and psychiatric history before he sees the psychiatrist. The value of this interview is twofold: It enables the psychiatrist to evaluate and diagnose the case at the same time it gives the social worker some idea of the problems involved, should the case be referred to Social Service.

PETER BENT BRIGHAM HOSPITAL

From July, 1937 to January, 1938, there have been 96 new patients admitted to the Clinic. During the same period, Social Service has done some service for 67 patients. Of these, 28 had been in the Clinic before July and 39 were admitted after that date. These services have ranged from intensive case work to the slight service of referring the patient to a relief agency.

The following was one of the early cases admitted to the Clinic. It falls in the adolescent group and is now being followed in the Adolescent Clinic:

A very attractive thirteen-year-old boy was brought to the Clinic with the history of being excitable, mean to his two younger brothers, very unpopular with other boys, always complaining that he was picked on and that his mother loved the other brothers better than she loved him. He was bright in school but promotion was doubtful because of his restlessness, constant whispering and inattention. He was, also, beginning to be very much interested in sex. The boy's father had been a patient in a sanatorium for the tubercular for some time, though he came home for a part of the day two or three times a week. The mother and father were quite incompatible and these visits were the occasion of frequent quarrels. Upon investigation it was found that the patient's mother nagged him continually and threatened him with punishments which she never carried out. No attempt had been made to answer his questions about sex. He belonged to no boy's group. So as well as having no security at home, he had no outside outlet for his interests and energy.

The Psychiatrist discussed the question of sex quite frankly with the boy. The mother was urged to stop nagging, to correct only for really important faults and, if she told him she would punish him, to carry out that punishment. She has tried hard to follow instructions and has cooperated well. Arrangements were made for the patient to join a Scout Troop in a Boy's Club. A Scout uniform and pack were provided by Social Service. He entered eagerly into swimming, gymnastics, and arts and crafts. During the summer he had two weeks at camp and returned to school in the fall with a promotion to the next grade.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

School is going much better this year—in fact, he almost confesses to liking it. His mother reports the boy seems to be really trying and that he is much less of a problem at home. But the crowning achievement in his eyes and ours, is the fact that his fellow Scouts have chosen him Captain of his patrol.

Cardiac Clinic

Reassurance, as well as material aid, must be given the patient who comes to the Cardiac Clinic, for his future rests upon the adjustment he makes to his condition. Once he understands the implications of the disease, and realizes the need for altering his mode of living, he is well on the road to solving his own problems. The interpretative case work which brings about this understanding is an important function of the Cardiac Clinic Social Worker.

Clinic management is another of her duties. This includes the making of appointments, following up patients who fail to keep their appointments, arranging for transfers to other hospitals and clinics, planning for various tests and carrying out innumerable recommendations by the doctor. Further, there are reports to be made out to schools, places of employment or other co-operating agencies. Arrangements also are made with the Red Cross Motor Service for the transportation of patients too ill to come to the Hospital by street car.

In 1937, 1,309 postcards and 666 letters were sent to patients asking them to report to clinic. There were 53 home visits made when patients failed to respond to letters or telephone calls.

Employment adjustment through rehabilitation agencies was effected in 15 cases, while 11 patients were aided in school adjustment. Care in nursing homes or other institutions was found for 27 patients, while 13 cases were referred to other hospitals for specialized care.

PETER BENT BRIGHAM HOSPITAL

In other cases, home conditions were analyzed and help given largely through the cooperation of outside agencies specializing in such work.

CARDIAC CLINIC STATISTICS

Cases brought forward from January 1, 1937 ..	638
New cases	138
Reinstated	26
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Total membership	802
Closed	183
<hr/>	
Present attendance January 1, 1938	619
Total number of visits to clinic	1,427
Average number at clinic	15
Largest number at any one time	29
Smallest number at any one time	5

Of the 138 new cases referred (age division being made at 16 years inclusive), there were: 46 men, 48 women, 19 boys, 26 girls.

Surgical Clinic

A perplexing problem facing the social worker on the Surgical Service is the care of the patient with a diagnosis of cancer. This year, there were 71 cases of this type and many of these had to be brought in daily for regular courses of X-ray treatments. Equally difficult is the problem of the patient referred for terminal care or for those who cannot be cared for in their own homes during treatment.

A forty-eight-year-old man was referred from the Tumor Clinic for terminal care. He had advanced carcinoma and his condition was becoming progressively worse. His inability to work meant that his wife and six children were dependent on Public Welfare. With no beds available in hospitals nearby, Social Service arranged for his admission to the Rose Hawthorne

REPORT OF THE SOCIAL SERVICE DEPARTMENT

Lathrop Hospital in Fall River. Through Invalid Aid, funds were obtained for his wife so that she could go to visit him. On his death, the social worker saw that adequate arrangements were made for his burial.

For the most part, those who are referred from the wards come for nursing and convalescent care. The adjustment to the normal routine after an operation is difficult for the chronic patient who must adjust himself to a new mode of life. The problem is aggravated by the limited resources available for convalescent care and by the fact that for the majority of ward patients, the expenses for an adequate period are prohibitive. The Community Health Nurse who will visit daily is of great assistance to patients who must return to their own homes. The cooperation of the Red Cross Motor Corps in transporting patients of all types is of great value. They help immeasurably in transporting orthopedic cases as well as those who come regularly to other clinics.

SURGICAL SERVICE STATISTICS

Cases brought forward from January 1, 1937...	38
New cases	310
Reinstated	44
	—
Total cases	392
Closed	381
	—
Carried forward to 1938	11

Luetic Clinic

The program of cooperation between the State Board of Health and this Clinic, which was inaugurated last year, continues with gratifying results. This Hospital is now one of six in this section which is served by six epidemiologists, whose duties are to call upon lapsed cases or to look up possible contacts and get them into the Clinic.

PETER BENT BRIGHAM HOSPITAL

There are three meetings of the Clinic a week, two for treatment and another for diagnosis and check-up. The Social Worker is present at the latter session, when a social history is taken on each patient. In this way, existing social problems are discovered and a contact established between social worker and patient, which makes the way easier if the patient is eventually referred to Social Service.

Constant treatments are absolutely necessary for the success of these cases, but the fact that they must continue over a long period means that the social worker often is called in to reassure the patient and to encourage him to be regular in attendance. Further, there is the all-important work with the contacts of early cases whose condition cannot be determined by a single blood test, but only after a test has been given every two weeks for three months and once in the fourth month.

Every encouragement is given by the state in this project by allowing the patient who cannot pay for his treatments a sum of 75 cents a treatment or \$1.25 for treatment and transportation.

Often it transpires that the luetic condition of the patient is only one factor in the social problem of his family. In some cases the cooperation of private or public agencies must be sought, arrangements made for increased aid in the case of welfare cases and transportation obtained for patients who live outside the area served by the Red Cross Motor Corps or who for some reason cannot use the street cars.

LUETIC CLINIC—STATISTICS

1937

Patients brought forward from December 31, 1936	393
New Patients	213
Men — 86	Women — 127
Reinstated Patients	40

REPORT OF THE SOCIAL SERVICE DEPARTMENT

Other Patients seen in Clinic	132
Cases not diagnosed but followed temporarily	40
Referred for lumbar punctures and further recommendations	47
Contacts seen in Clinic—blood tests and physical examinations	45
Total Membership during 1937	778
Closed during the year	224
Transferred to other hospitals, L.M.D.	53
To be followed in another clinic	61
Diagnosis not confirmed, discharged	46
Lost	34
Reported to Board of Health	10
Probably cured	5
Moved to another State	15
Present Membership—December 31, 1937	554
Total number of visits during year	6,683
Men — 2,581 Women — 4,102	

Note change in number of visits, due to new method of treatment whereby one treatment is given per week instead of two, as formerly, in majority of cases.

Follow-up:

Total number of letters sent	853
Special Clinic letters	48
Board of Health letters	162
Special blood test letters	399
Treatment follow-up letters	203
L. P. follow-up letters	41

Total number of cases referred to State Follow-Up
Workers

	432
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This number is comparatively favorable with the other Hospitals who have this State service.
Results of these refer about 75% satisfactory.

G. C. STATISTICS—1937

Patients brought forward from December 31, 1936	70
New Patients	73
Men — 50 Women — 23	

PETER BENT BRIGHAM HOSPITAL

Reinstated Patients	15
Men — 10 Women — 5	
Total membership during 1937	158
*Closed during the year	72
Present membership—December 31, 1937.....	86
*Discharged	72
Transferred to other hospitals	11
Letters returned unclaimed	4
Reported Board of Health not located	8
Lost	3
Probably cured	21
Died	2
Female patients seen in Gyn. Clinic (diagnosis — not confirmed)	23
Total number of letters sent during year.....	370
Special G. C. Letters	152
Board of Health letters	137
Special Gyn. follow-up letters	81
Total number of visits to clinic during year	1,135
Men — 942 Women — 193	

Arthritic Clinic

Patients in the Arthritic Clinic last year presented the problem of care of the chronic ill plus, in the majority of cases, the problem of old age and inadequate financial resources. Their medical and orthopedic care had to be supplemented by physiotherapy, dietetics and general social adjustment involving many approaches to the general problem, for the 350 or more patients seen had in common only pain or limitation of the joints. In the cases of overworked mothers, the question of fatigue had to be dealt with in many different angles.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

A young mother with six small children was nervous and exhausted and the doctor advised a rest away from home. Money was raised to pay her train fare to the home of her mother in the country and a WPA housekeeper was placed in the home to care for the children while the father was at work.

In the case of another young married woman with a severe form of spinal arthritis which would need long term treatment, a private placing agency assumed the care of her child while the patient was fitted to a plaster jacket at the Vincent Memorial Hospital and later cared for at St. Luke's and at Chickering House. Her husband's part time earnings have been supplemented to make a special diet possible for the patient.

ARTHRITIC CLINIC STATISTICS

Brought forward from January 1, 1937	246
New cases	81
Reinstated	26
	—
Total cases	353
Closed	68
	—
Carried forward to 1938	285
Clinic days	38
Clinic visits	593

Medical Clinic

One of the most difficult tasks in social work for the Medical Service is finding adequate care for seriously ill patients needing bed care on discharge, but whose homes are not equipped for such care. The community at large has inadequate resources other than large public institutions, such as Tewksbury or Long Island. The private institutions or chronic hospitals providing such care have a very limited number of beds and long waiting lists. We, therefore, have had to turn to private nursing homes which will take the patients if the money

PETER BENT BRIGHAM HOSPITAL

for board can be paid. Where the family cannot meet the cost, Social Service has raised money from trust funds or other sources to meet the need.

Besides this group, there are many patients needing short-time convalescent care before returning to work. Many of these have gone to Chickering House or to St. Luke's Convalescent Home. At the present time, with such a large proportion of our patients on Public Relief or in W.P.A. work, we must be in constant communication with the public agencies to prevent duplication. We also have close contact with the Housekeeping Project of the W.P.A., calling on them when a family is in need of this type of service, either to care for a patient in his own home or for the children in a family when the mother is in the hospital. Social Work in the Medical Service cared for 509 cases this year, 311 of which were new.

STATISTICS OF MEDICAL SERVICE

Cases brought forward, January 1, 1937	42
New cases	311
Reinstated	156
	—
Total cases	509
Closed	489
	—
Carried forward to 1938	20

There were 1,261 patients' visits to the Diabetic Clinic during the past year. Social Service has been active, as heretofore, in supplying Insulin to patients unable to pay for their own. Student dietitians have been most helpful in making follow-up calls to instruct patients showing a considerable amount of sugar or those who did not seem to understand the routine instructions given in the Clinic. A clinic secretary has been in attendance in the Clinic.

REPORT OF THE SOCIAL SERVICE DEPARTMENT

There were 1,937 patients' visits to the Dental Clinic. A clinic secretary has also been in attendance in the Dental Clinic throughout the year.

The service given by the Red Cross Motor Corps has been more efficient than ever before. They have made at least 958 trips to the Hospital, bringing patients who are unable to travel on street cars.

One worker is responsible for arranging calls with the Red Cross Motor Corps. She gives a good deal of time as several telephone calls may be required for one patient.

Members of the Junior League Inc. and Erskine School of Boston have served as volunteer workers, helping in several of the clinics.

This year a check for \$100 was given the department for Christmas baskets from the Mary A. Crabtree Fund.

There were 1,982 postcards sent out for the Follow-Up Clinic and Tumor Clinic, and 102 letters.

A total of 1,197 steering letters were sent out by this department, and 152 miscellaneous letters.

STAFF OF WORKERS

Head Worker—General Service

ALICE M. CHENEY, R.N.

General Medical Service—Arthritic Clinic

MARGERY L. CROTHERS

Cardiac Service—General Medical

MRS. LOUISE S. LAWSON, A.B., M.S., resigned Nov. 22, 1937

MRS. ELIZABETH K. LYONS, A.B., began Nov. 22, 1937

Surgical Service—Tumor Clinic

MRS. MARY LAMBERT, B.S., resigned June 1, 1937

MRS. GWENDOLYN M. WATKINS, A.B., M.A., began Dec. 1, 1937

PETER BENT BRIGHAM HOSPITAL

Psychiatric Clinic

MRS. GERNA S. WALKER, A.B., B.S., began July 6, 1937
RUTH MARKELL, began July 6, 1937

Luetic Clinic

MRS. GERNA S. WALKER, A.B., B.S., began July 6, 1937
MRS. ADDIE COOLIDGE FAUST

Summer Substitute

MRS. CHARLOTTE M. ROBINS
ANNE J. BERNSTEIN, B.S.

Clerical Staff

MRS. ADDIE COOLIDGE FAUST
KATHLEEN O'TOOLE
OLGA CAUHAPE

GENERAL VOLUNTEER SERVICE

ANNA REVERE, Head Volunteer	MARY LAVERACK
AGNES LINES	JEANNE CLARK
MARIETTA HOWE	SALLY GALLAGHER
JOAN PRATT	GERTRUDE HOOPER
ESTHER MICHELSON	MRS. CATHERINE NELSON
POLLY HOWELL	ESTHER ATWELL
JEAN MAHONEY	NATALIE WARREN
MRS. R. B. GEROULD	MRS. E. MINTZ

ALICE M. CHENEY, R.N.,
Director, Social Service Department.

DECEMBER 31, 1937.

Report of the Pathologist

THE FIGURES for the Department are as follows:

Autopsies, Medical Service	139
Autopsies, Surgical Service	68
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Total number of autopsies recorded	207
Reports on surgical specimens	1,914
Reports on bacteriological specimens	1,924
Guinea pig inoculations for suspected tuberculosis	183
Ascheim-Zondek Tests	90
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Total	4,111

The percentage of autopsies for the year, including cases taken over by the Medical Examiner, is 60+ $\%$ for the entire Hospital; 58+ $\%$ for the Medical Service, and 66+ $\%$ for the Surgical Service.

TABLE 1

The number and percentage of autopsies for all year are:

Year	Number	Per cent
1936	216	65.0
1935	182	63.0
1934	220	74.0
1933	177	64.0
1932	179	69.0
1931	219	75.0
1930	192	64.4
1929	240	68.6
1928	219	59.6
1927	196	63.4
1926	179	62.0
1925	204	70.7

PETER BENT BRIGHAM HOSPITAL

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

TABLE 2

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

Year	Number
1936	3,857
1935	3,973
1934	3,593
1933	3,249
1932	2,730
1931	2,615
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

REPORT OF THE PATHOLOGIST

Changes in the staff in the last year were as follows:

- Dr. Darrell Ayer succeeded Dr. Orville T. Bailey* as Resident Pathologist, August 1, 1937.
- Dr. H. J. Tweddell succeeded Dr. L. E. Rector as House Officer, July 1, 1937.
- Dr. C. M. Campbell, succeeded Dr. George Kaneb as House Officer, December 1, 1937.
- Dr. R. W. Howard, Voluntary Graduate Assistant, September 1, 1937, for a period of six months.

On the whole, the twenty-one years of my service as pathologist represent a period of satisfactory work and enjoyable relationship with the Departments of Medicine and Surgery, and the administrative office both under Dr. Howard and Dr. Howland.

The Pathological Department has contributed its quota to the large number of Peter Bent Brigham Hospital graduates who now hold distinguished positions in their respective fields.

I include this year again the tabulation, year by year, of the volume of work. The number of autopsies remains fairly satisfactory, averaging around two hundred. There has been a steady increase in the volume of surgical and bacteriological routine and in recent years the addition of biological tests for pregnancy and certain tumors has added more work than the numbers indicate.

No addition to the staff has been made since 1923 when an additional house officer was added and we were given a technician for the preparation of bacteriological media for the Hospital as a whole. The Department now consists of the pathologist, resident pathologist, two house officers, two stenographers, one histological technician, one bacteriological technician, and the post-mortem and morgue room attendant.

** Dr. Orville T. Bailey resigned after two years of service. He has been admitted to the Society of Fellows of Harvard University.*

PETER BENT BRIGHAM HOSPITAL

The two stenographers may appear to be an extravagance, but it must be remembered that telephone calls are numerous, records and microscopic slides are frequently commanded by many members of the Hospital staff, so that the major portion of Miss Cleary's time is used in managerial capacity.

Most of what I wish to say in this report has been said before in previous reports, from which I am, in part, quoting.

The working quarters of the Pathological Department have never been in keeping with the aims of the Peter Bent Brigham Hospital. Originally poorly designed, it is cramped for space. We need, particularly, more room for the housing of animals, the storage of specimens in jars, slides, and records, and space for the accommodation of students and voluntary workers in routine and research work.

In several earlier reports, I have stressed the possibilities of increased efficiency in the Hospital through the development of the bacteriological routine and bacteriological research. Finding this impossible during the years of relative affluence of the Hospital, I have made no mention of it during the lean years. Should fortune favor us, I should again strongly recommend increasing the equipment and personnel of the department for bacteriological work, establishing thereby a closer relationship with the Department of Bacteriology of Harvard Medical School.

The Hospital can take pride, I believe, in the excellence of the pathological records and the accurate work upon which they are based. We have on file microscopic preparations from every post-mortem done and every surgical specimen received since the Hospital was opened. The whole constitutes a treasure house of valuable material and is, of course, freely used.

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Under the present conditions, the Department of Pathology can accomplish little more than routine duties and the training of men in pathology for university and hospital positions. Owing to the small personnel, heavy routine, and limited space, important research can rarely be undertaken by members of the staff or invited guests. More and more the laboratory has become a training school, with a record not unworthy of the standing of the Hospital as most of the former resident pathologists hold important teaching positions in first-rate medical schools.

The volume and interesting nature of the routine material, together with the stimulating and congenial spirit prevailing at the Hospital—and this applies to both administrative and clinical departments—make the position of Pathologist on the staff highly desirable and easily bearable under conditions far less favorable than at present, yet improvement is desirable and easily achievable. The general standards of a hospital may be most easily appraised by the standards and efficiency found in the Pathological Department, because in a general way the Pathological Department represents the response to the demands of physician and surgeon. In fact, the financial support of a pathological laboratory represents an opinion on the part of the Administration and Trustees which is virtually reflected from the clinical departments. At the Peter Bent Brigham Hospital all of the bookkeeping concerning the Pathological Department is on the debit side as no fees are charged to patients for pathological studies.

I think it advisable to repeat from my report for the year 1928.

“The direction of the hospital laboratory by the administrative head of the Medical School Department of Pathology has disadvantages as well as advantages from its

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Hospital side: The advantages are obvious; presumably always a competent director and the reserves of the Medical School department in professional and technical matters are at all times available as assurance against interruption of work from absences and illnesses. There is also a financial advantage in that salaries are smaller.

"The disadvantages are those arising from the divided interests of the director who is compelled to transact University duties and run a separate department in another building. Although theoretically and geographically in the same group with the Brigham Hospital, and supported and cheered by the assumption (or fiction) that when at the hospital I am in the Medical School and *vice versa*, the four and a half minutes' walk between desks is a formidable barrier to the most efficient work. It would be to the advantage of the hospital to have a Pathologist in constant attendance with major interests centered there. With the existing organization, this could be achieved only by making the Medical School Department of Pathology and the Brigham Hospital Laboratory of Pathology a single institution under one roof, an ideal solution, probably not possible. Another solution would provide for a full-time Pathologist at the Brigham Hospital with professorial rank but without administrative or major teaching responsibilities in the Medical School. This solution would also require very considerable enlargement of the laboratory in order to provide for the activities to be expected of any worthy incumbent of the position; it would probably receive some support from the Medical School such as is in effect at the Boston City Hospital where this second plan now operates.

"These matters are for meditation. They indicate possibilities for increasing the efficiency and prestige of the hospital through more effective service and cooperation with the clinical department and in scientific work."

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S. B. WOLBACH,
Pathologist.

DECEMBER 31, 1937.

Report of the Surgeon-in-Chief

INTRODUCTION: The quarter of a century which has passed since this Hospital opened its doors represents a period of great importance in all matters pertaining to medicine. During this interval, medical education in the United States of America finally emerged from the era of proprietary schools to assume its present position as one of the most important post-graduate disciplines of the university. Coincidentally there occurred a great advance in physiological, biochemical and bacteriological knowledge that was rapidly applied to clinical medicine and surgery. The utilization of the X-ray for both diagnosis and therapy and the advent of radium in clinical medicine made great strides forward. Surgery, in particular, experienced an extraordinary advance. The fields of neurological and thoracic surgery were added and the last signposts to all parts of the body were set up and the surgical roads made clear. Useful and simple methods for biochemical determinations necessitated the additions to hospitals of suitable laboratories for the proper evaluation of the levels of certain substances in the blood. Further laboratory equipment became necessary as the field of allergy was exposed, methods for electrocardiography were perfected, and a method for the determination of the basal metabolic rate was perfected for clinical use. This was a period of great flux, when it was of vital importance that the directing members of a hospital staff need have vision, imagination and ability to keep abreast of the times. This period sorely tried hospital trustees who found each year an eager staff clamoring for new and often expensive additions. We of the Brigham family should feel deeply grateful to the original chiefs

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of service who so ably guided the Hospital through this critical period.

We can see the changes which have come about in medical practice and medical education reflected in our Hospital records and in our Annual Reports. For the year 1913 the annual reports of the Surgeon-in-Chief and the Physician-in-Chief queried the value of hospital reports from medical institutions as they existed up to that time. Both of these reports emphasized that the form of hospital reports theretofore dealt largely with administrative matters such as the costs of the care of the patient, and seemed to be written largely for the laity and therefore perhaps of little interest to medical men. It is clear that the type of hospital report published annually by the Peter Bent Brigham Hospital since 1913 has been quite a different matter. These reports have discussed the professional organization within the Hospital, have made use of statistical data for improving therapy, have critically discussed methods of medical teaching and education, and have by the list of publications demonstrated progress both in the clinic and in the laboratories. The rereading of these reports reflects in a fairly accurate way both the progress of medical education and the changes in hospital organization in the United States. Such reports moreover have been of value in the education of the Trustees not only of our own Hospital but of other institutions which have sought out our annual reports in the hope of finding there what lay behind apparently satisfactory accomplishment and satisfactory relationships within this Hospital. The form of our professional staff organization and the type of our medical and surgical practice have been widely disseminated and adapted to other conditions in distant places. It is possible that the professional nature of our reports has in some way detracted

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from an interest in our financial structure, since it may have been an offhand deduction that a hospital whose educational and clinical program was so sound must also have a sound financial structure! But more of this anon!

It seems impossible that a quarter of a century could have fled past since I first looked out of the windows of the Department of Physiology of the Medical School and watched them tear up the cow pasture to build the Brigham Hospital and since I presented myself to Dr. Cushing in the Laboratory of Surgical Research in the Medical School to be examined for an internship in this Hospital. I even remember his question, "What are the symptoms of a patient suffering from a stone in his bladder?" Having hurdled that difficulty I was allowed to put off beginning my internship until November, 1913, by which time I hoped more of the uncompleted Hospital buildings would be erected and occupied.

Dr. Christian has retraced the dates of the beginning of the Hospital and each graduate can appropriately celebrate the day which suits his time or his service here. It may, however, be of interest to recall that for some three years before the Hospital opened, a Harvard Clinic had been set up for ambulatory patients in Building D. of the Harvard Medical School through the generosity of Mayor Henry Lee Higginson, then the leading citizen of Boston. Here Miss Hall and her assistant, Miss Johnson, presided; here Miss Leone Ivers and Miss Geraldine Martin began their services; here Miss Alice Carter, soon to take over our Surgical O. D. D., was in charge; and here John Fogarty held sway as orderly. Fogarty grew with the Hospital: when the O. D. D. opened he was orderly there and taught the internes the mysteries of many disorders until the Laboratory of Surgical Research in the Medical School claimed him as Senior

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Diener. In the Harvard Clinic were sterilized all the dry goods used in the original operating room in Ward A before our surgical pavilion opened. The autoclave of the gas heater, steam-jacket type, was utilized for years by the laboratory workers and its overloading may have been responsible for some of the minor wound infections which are reported in our original patients!

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Before attempting to analyze what this Hospital has accomplished and whether the hopes and ambitions of those who first directed its affairs have been fulfilled, I must report briefly for the year 1937.

Changes in Staff. The return of both Drs. Cheever and Homans to hospital duties has greatly lightened the load we had to assume during their absence. The value of these senior members to our house staff and to our students cannot be overemphasized and their return, refreshed and invigorated by experience away, has been a chief satisfaction to us. These friends, who have set the tone of general surgery at the Hospital for twenty-five years must soon leave us, to our great regret, and I take pleasure in this twenty-fifth report in noting the great debt of gratitude all surgical graduates must feel toward them.

Dr. W. E. Ladd, Chief Surgeon of the Children's Hospital, has been added to our roster as Consulting Surgeon. This further cements the liaison with the Children's Hospital begun by Drs. Cushing and Lovett and now culminating in our joint internship. Two assistant otolaryngologists, Dr. Carlisle T. Flake and Dr. Victor Baer, were added to care for the increasing work in this specialty and two voluntary graduate assistants, Dr. Albert Y. Kevorkian and Dr. Arthur J. Hadler,

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the latter recently a medical interne, have been assisting in the O. D. D. Our chief loss this year was the departure of Dr. Charles D. Branch from our midst. He had been with me in Cleveland and had steadily climbed the Hospital hierarchy until, when both Drs. Cheever and Homans were given leave of absence, we were happy to promote him from the post of Surgical Resident to that of Junior Associate in Surgery. In this position he occupied Dr. Homans' rooms while the latter was substituting for Dr. Harvey at Yale, and shouldered with us large responsibilities both as regards teaching and the care of our patients. After a long study as to where he might find greatest opportunity and happiness, he decided to commence the practice of general surgery in Peoria, Illinois, where he had family contacts. His departure creates one of those wrenches in the life of a teacher which always occurs when a devoted and able pupil finds the time for him has come to set out upon his own life's voyage. We have every reason to believe, and every hope, that success in whatever he undertakes will come to him.

The succession of the *Assistant Resident Surgeons* has been as follows: In November, 1936, Dr. Richard Warren succeeded to the post of Assistant Resident Surgeon vacated by Dr. Dupertuis. Dr. Warren came to us from the Massachusetts General Hospital where he had received his surgical internship after graduation from the Harvard Medical School. He represents the sixth generation of his family in devoted service to the Harvard Medical School, and this Hospital, whose first and second Surgical Chiefs also received part of their training at the Massachusetts General Hospital, is happy to welcome him to our professional family. In March of 1937, Dr. Robert E. Gross, previously Resident Pathologist of this Hospital, completed his tour of duty and left

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for Europe on the *Peters Traveling Fellowship*. Dr. Gross was succeeded by Dr. Benjamin R. Reiter who had been here as surgical interne in 1934-35 and had gone to the Philadelphia General Hospital for a year's training in gross pathology before coming back to us. In July, Dr. Carl W. Walter finished his tour of duty and assumed a new rôle for our graduates. As an Instructor in Surgery in the Medical School and Junior Associate on the Hospital Staff, he has taken over a large part of the teaching of third-year surgical section work in the O. D. D. and has in addition acted as a mentor to the Arthur Tracy Cabot Fellow by continuing his work in the laboratory and making the laboratory his professional home. Dr. Walter's unusual abilities have led to his developing and perfecting certain technical methods of great benefit to surgery and we are in hopes that this year will see enough of this work completed so that he may complete his proposed book on surgical technique. There has been no adequate publication covering the matter of asepsis, antisepsis, sterilization, etc., for many years and the great advances which have been made safeguarding our patients along these lines need more general appraisal. Dr. Walter was in turn succeeded by Dr. J. Hartwell Harrison who had been for two years Urological Fellow but who wished to have a broader education for his future work. In November, Dr. T. B. Quigley finished his tour of duty and, though his father is a surgeon in Omaha and we had perhaps expected him to return to his native city, he desired to secure further experience in the East and is now Resident Surgeon at The Doctors Hospital in New York City where he finds another of our graduates to keep him happy, *viz.*, Dr. Richard C. Durant. Dr. Quigley was succeeded in November by Dr. William S. McCune who came to us after an internship at the Massachusetts General Hos-

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pital. We had known Dr. McCune as an excellent student and are happy to have him with us.

The *Arthur Tracy Cabot Fellowship* went to Dr. John F. Bell who had just finished his surgical internship here. Dr. John L. Keeley, whom he followed, has elected to stay on as a *Harvey Cushing Fellow*, continuing to work on his problems in our laboratory of surgical research. *The Urological Fellowship* went to Mr. A. Ruscoe Clarke. At the time Dr. Harrison came to the general surgical service, Mr. Clarke had been with us a year as a Voluntary Graduate Assistant in Urology, coming from Guy's Hospital, England, to specialize in this field under Dr. Quinby. Dr. Michel Pijoan continued in charge of our clinical laboratory in the Hospital, again as a *Harvey Cushing Fellow* and also has been given the title of Junior Associate so that he might be permitted to care for patients in our private ward.

It will be noted from the above recital that more and more of our internes are chosen to climb up the Hospital and laboratory ladder in our midst. The only exceptions to this custom as regards the Assistant Resident Surgeons and the various Fellowships are the appointments of Dr. McCune and Mr. Clarke, both of whom we welcome gladly to the Brigham family.

Throughout 1937, Dr. Dunphy has continued as *Resident Surgeon* and has demonstrated an unusual ability for keeping the house staff happy and our patients well cared for. Dr. Dunphy will not mind our utilizing him as an example of our difficulty in choosing the best men from among the many who apply. He secured his internship from the position of alternate by the resignation because of sickness of the favored candidate. Now, in retrospect, we must congratulate ourselves upon this accident which has given to us an unusually competent Resident Surgeon.

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Joint Interneship with Children's Hospital Surgical Service. The interne situation was complicated throughout 1937 by the necessity of changing over from the system we previously used to the new joint interneship with the Children's Hospital Surgical Service. The arrangements for this interneship were begun in 1936 and its advent heralded in the 1936 report. As this arrangement is now set down, an incumbent who elects this service comes to the Brigham Hospital for four months as laboratory man or "pup," then goes to the Children's Hospital for one year and then returns to the Brigham Hospital for a year's service which is divided as previously; four months as junior on the ward, four months in the O. D. D., four months as senior on the wards. It was necessary to make frequent adjustments and to fill in with some substitutes during the period of shifting from one system to the other but we are now well straightened out and the men who have come to us from the Children's Hospital, without having had previous training here, have been pleasant additions to our staff and those who have been longest on this joint service have expressed great satisfaction with it. It might appear that a man who had already been through his laboratory training here and then a year at the Children's Hospital would not easily accept the tasks imposed upon them as juniors. This has not proved true, for the material is so different here that the men are still as eager as ever to work at whatever task is assigned to them. Under the new arrangements, a new man comes on every two months and wherever possible they have been provided with a six months' interneship or externeship in pathology either at the Children's or Brigham Hospitals. Such an interneship, though it has a long duration, twenty-nine months, provides excellent opportunity for a thorough training in surgery. The fact

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that the American Board of Surgery accepts the period beyond the first year as time which may be considered as post-internship training in meeting the Board's requirements means that we do not actually prolong the education of the surgeon above the commonly accepted minimum period. The system commenced in March of 1937 when Dr. John H. Kennard, Harvard 1936, came on in the laboratory post at the Brigham Hospital. In May, Dr. Paul D. Giddings, Harvard 1935, moved over from the Children's Hospital as Junior and in the same month Dr. Dean W. Tanner, Harvard 1935, moved in to our laboratory post. In July, Dr. Thomas W. Botsford, Harvard 1935, moved into the Junior post at the Brigham and Dr. John A. Sandmyer, Harvard 1937, moved to our laboratory post. In September, Dr. Robert S. Meyers, Harvard 1937, came to the laboratory post and Dr. Hermon Y. Tyler, Tufts Medical School 1937, came in as Junior in place of Dr. Frederick H. Rutherford, Harvard 1935, who had been at the Children's Hospital and had expected to come to the Brigham but was suddenly called to his home in the West and could not return. In November, Dr. McChord Williams, Harvard 1937, who had already had a previous service in the Children's Hospital Pathological Laboratory, came on as a laboratory man and Dr. James B. Campbell, Harvard 1935, came over from the Children's Hospital to fill the Junior post.

This all sounds rather complicated and it does appear as if new faces turned up extraordinarily frequently but we must recall that the men who come back to us from the Children's Hospital as juniors have already been here as laboratory men and are not strangers. Moreover there has been some advantage in having the men come on at the rate of one new man every two months instead of two every four months because this overlapping pro-

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vides us with an individual in each grade who knows the job and can thus assist with the instruction of the most recent incumbent.

Surgeon-in-Chief, pro tempore. A chief pleasure during the past year was having as Surgeon-in-Chief, *pro tempore*, March 21 to 27, inclusive, Dr. Allen O. Whipple, Professor of Surgery at Columbia University and Director of Surgery at the Presbyterian Hospital, New York City. Dr. Whipple brought with him the traditions of a great school and his devotion to the care of our patients, his obvious happiness in association with the house staff and his fine abilities as a surgeon and teacher left a most happy and valuable impression amongst us. Although the Harvard Medical School did not commence until 1782, whereas King's College, the antecedent of Columbia University, was established by George II of England in 1754 and had a medical faculty in 1767, we could not permit Dr. Whipple to claim any priority as regards the establishment of a medical school in this country, at least of continuous existence, for King's College was closed during the Revolution and was not reopened as Columbia College until 1784 and medical instruction did not recommence until 1792.

The resignation of Miss Hall, Superintendent of Nurses and Principal of the Peter Bent Brigham Hospital School of Nursing, occurred this year. Miss Hall's duties commenced on July 1, 1912, and from then until her departure, July 1, 1937, a period of twenty-five years, she devoted herself unstintingly to the betterment of this Hospital and the establishment of a school for nursing which has long held an enviable position. A native of Nashua, New Hampshire, and a graduate of the Massachusetts General Hospital School for Nurses, she was imbued with a New England conscience, high

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ideals for her profession and a "stick-to-it-iveness" that always left her in a satisfactory position and usually a victor when the clouds of conflict rolled by. Her abilities were soon recognized during the period of war service which at its close saw her as chief nurse of the American Red Cross for France. Many of her pupils now occupy high places in the profession of nursing and all our graduates, both nurses and doctors, will welcome this opportunity to thank her for what she has done for this Hospital as well as for most of us personally. Her example has created a fine tradition. She has been succeeded by Miss Lucy Beal, one of her own pupils, who after graduation was successively a head nurse here on a medical ward and then medical supervisor before commencing a distinguished career elsewhere. We must congratulate ourselves that she could be tempted away from her post as head of the University School of Nursing at the Syracuse Memorial Hospital.

During the year, no innovations or changes in our organization other than the internship have occurred. The two laboratories, both the one in the Hospital and that in the School, have been busy and teaching has been carried on as usual and the material has been of about the same order as during the previous years. We are again glad to acknowledge a generous gift from the President of the Corporation without which much of our research endeavors would have had to be curtailed. Moreover, our clinical biochemical laboratory in the Hospital has become a heavy though essential financial burden. Tests for sulphanilamide, vitamin assay and the determination of the levels of calcium, phosphorus, sugar, nitrogenous products, cholesterol, etc., in the blood are now an essential part of modern medical practice. With a decreasing income, it is hard to know where to let the axe fall! Shall it be on elaborate laboratory

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tests in difficult cases, the elucidation of which is a chief stimulus to high-grade work; shall it fall in the experimental laboratory in the school or shall we cut salaries and let the students care for themselves? Mr. Amory's generosity has for the moment held up the guillotine!

It is proper to call attention to the fact that each year the special clinics in the O. D. D. continue to assume increasing importance and to take a greater share of our time. The tumor clinic, the endocrine clinic, the gastrointestinal clinic and the follow-up clinic have all become very important places for work and will soon acquire a mass of material justifying the effort and leading, we hope, to an extension of medical knowledge.

During the year the *surgical precedent book* was printed in a form suited to the pockets of our house staff and students. This book contains a statement of the organization of the staff, the duties of the various members of the house staff and the clinical clerks, a list of the teaching and formal exercises, describes the conduct of the general work in the O. D. D. and in all special clinics, making few rules but leaving many suggestions concerning the care of patients. Suggestions concerning ward conduct, the pre-operative and post-operative care of patients and certain technical procedures have proved of value in handing down information from one generation to the next and the inclusion of the orders for the nursing service and the Hospital formulary has made the little booklet of considerable value to the students as well as ourselves.

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Table A lists the variety of the clinical material over the past five years and is the only statistical evidence to be recorded in this part of the record since the remaining statistical data will be reviewed when we survey the work of twenty-five years. It is presented in order to demonstrate the diversification of the clinical material. The chief change to be noted is the falling off of the major thoracic surgical procedures, a decrease necessitated by the new arrangements of Dr. Harlan F. Newton whereby the major surgery of the Middlesex

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TABLE A

STATISTICAL STUDY OF VARIETY OF CLINICAL MATERIAL
Based on Operations Performed

	1933	1934	1935	1936	1937
Neurological:					
Central Nervous System.....Major	76	70	38	42	34
Minor	80	80	78	66	52
Peripheral Nervous System	20	2	11	11	6
Thyroid	75	89	59	52	54
Thorax					
Major	54	69	79	54	36
Minor	20	36	14	20	25
Bronchoscopy	8	17	15	27	31
Breast	47	32	38	42	51
Circulatory System:					
Heart and Pericardium	1	1	3	1	1
Blood vessels	23	19	36	70	88
Abdomen:					
Stomach	38	45	43	46	35
Gall-bladder	99	88	92	81	85
Appendix	155	165	135	144	175
Small Intestine	11	11	10	14	15
Large Intestine					
Major	69	50	39	47	64
Minor	107	82	70	55	88
Hernia	128	169	120	100	123
Bones and Joints:					
Fractures	10	33	35	30	35
Other Diseases	76	54	53	41	81
Plaster of Paris Dressings	66	91	85	86	69
Gynecology					
Major	193	192	185	191	154
Minor	167	152	119	129	149
Radium	35	25	24	23	48
Genito-urinary					
Major	162	273	159	181	175
Minor	...	...	36	58	41
Cystoscopy	468	641	579	632	508
I. V. Pyelograms	58	97	111	123	180
Miscellaneous Major Operations	64	35	106	95	62
Minor Operations:					
Nose, Ear, Throat	145	170	195	188	182
Dental	102	96	68	95	67
Transfusions	28	76	58	71	23
Miscellaneous	210	268	225	326	249
Total	2,795	3,229	2,918	3,141	2,986

Sanatorium is now done at that hospital rather than here. There is some increase in the surgery of the breast and of the circulatory system and of the large intestine.

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On the other hand, there is quite a distinct drop in gynecological procedures and in spite of the devotion of several people in the department of otolaryngology, no great increase in the number of patients submitted to surgical procedures. This subdivision is conducted only as a consultation clinic for the care of patients who come to this Hospital with other complaints, and for the care of our own staff. Patients are not admitted directly to the otolaryngological clinic with complaints emanating from the ear, nose or throat.

MEDITATIONS ON THE FIRST TWENTY-FIVE YEARS

I shall make some attempt to take stock of what we have already accomplished and shall try to separate my thoughts into the two accepted desiderata of the Hospital, *care of the patient*, and *contributions to education and knowledge*. I am of the school which feels that these activities are inseparable and complementary and believe one cannot exist in the ideal form without the other. In fact, these faculties are as much a part of each other and have as little effect apart as the two legs of a compass or the two blades of a scissors.

Care of the Patient.

Table B enumerates certain data. From Case 1, Mary Turner, whose varicose veins were surgically treated on January 27, 1913, to Case 103384, Annie Morgan, who suffered from laceration of the scalp from falling down stairs on December 31, 1937, there were 56,594 patients cared for on the surgical service. We note that the average annual number of surgical discharges has risen to almost 3,000, the general mortality is a little less than when the Hospital opened, the number of patients operated upon is becoming pretty well fixed around 1,900 a year, with a similar stability of yearly

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TABLE B

HOSPITAL STATISTICS—DEPARTMENT OF SURGERY
1913-1937

YEAR	Total Discharges	Deaths	General mortality %	Autopsy % exclusive medico-legal	Patients operated upon	Case % operated upon	Operations recorded†	Post-operative deaths	Case mortality %	Operative mortality %
1913	690	35	5.00	43.4	477	69.1	693	29	6.1	4.2
1914	1474	83	5.63	43.4	992	67.3	1361	61	6.1	4.5
1915	1869	89	4.76	48.0	1328	71.1	1526	72	5.4	4.7
1916	2014	93	4.61	56.5	1422	70.6	1632	68	4.8	4.1
1917	2021	71	3.66	35.1	1457	72.1	1639	54	3.7	3.2
1918	1856	71	3.82	43.6	1304	70.2	1474	61	4.7	4.1
1919	2123	102	4.80	46.5	1411	66.5	1563	79	5.6	5.1
1920	2090	91	4.35	57.0	1399	66.9	1602	69	4.9	4.3
1921	2195	107	4.87	61.0	1405	64.0	1591	86	6.1	5.3
1922	2274	110	4.83	66.0	1517	66.7	1552	71	4.7	4.5
1923	2397	135	5.62	52.5	1646	68.7	1713	81	4.9	4.7
1924	2508	144	5.74	72.5	1783	71.1	1843	75	4.2	4.1
1925	2578	134	5.19	68.0	1667	64.7	1762	72	4.3	4.1
1926	2415	143	5.92	60.6	1663	68.9	1789	87	5.2	4.8
1927	2474	135	5.95	65.5	1735	70.1	1858	79	4.5	4.3
1928	2577	135	5.24	64.8	1750	67.9	1930	89	5.1	4.2
1929	2574	136	5.28	69.8	1708	66.3	1874	80	4.7	4.3
1930	2388	109	4.14	79.2	1714	71.8	1892	71	4.1	3.2
1931	2375	125	5.68	82.6	1670	70.3	1849	68	4.1	3.7
1932	2407	129	5.36	71.8	1723	71.5	2337	84	4.8	3.6
1933	2636	133	5.04	61.6	1848	70.1	2132	103	5.5	4.8
1934	2747	130	4.73	77.4	1992	72.5	2311	104	5.2	4.5
1935	2600	102	3.92	67.4	1848	71.1	2143	77	4.2	3.6
1936	2918	115	3.94	71.1	1982	67.9	2379	87	4.4	3.6
1937	2905	123	4.23	66.0	1935	66.6	2375	87	4.5	3.7

operations at around 2,200. The operative mortality seems to shift very little and so long as we can keep it below 4% it may be considered satisfactory.

In the matter of the operative mortality, it must be recalled that the Peter Bent Brigham Hospital is not a general hospital in the sense that it cares for all types of patients. Thus we do little orthopedic surgery, a field with the least operative risk; we do tonsillectomies only

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occasionally and thus our figures are not padded with minor surgical procedures. As an example of how a few beds devoted to simple procedures may affect mortality rates, we can quote from our Cleveland experience. There ten beds were set aside for the otolaryngological patients and were filled 90% of the time with patients in hospital for the purpose of removal of their tonsils. Because of the rapid turnover with such cases, 50% of the recorded operations were tonsillectomies, though over 100 beds were devoted to major surgery. Such a bulk of simple procedures may well cut mortality figures in half. Moreover, the Brigham Hospital has always been fortunate in having a department of medicine guided by an individual who has ever been willing to encourage surgery when it seemed reasonable and justifiable. Indeed, our sister department has even repeatedly urged surgical therapy when the surgeon seemed inclined to withhold it. This has frequently meant that surgical therapy has been performed upon patients in whom the risk was very great. Indeed I know of no other clinic where the surgical staff accept with equal equanimity such serious risks.

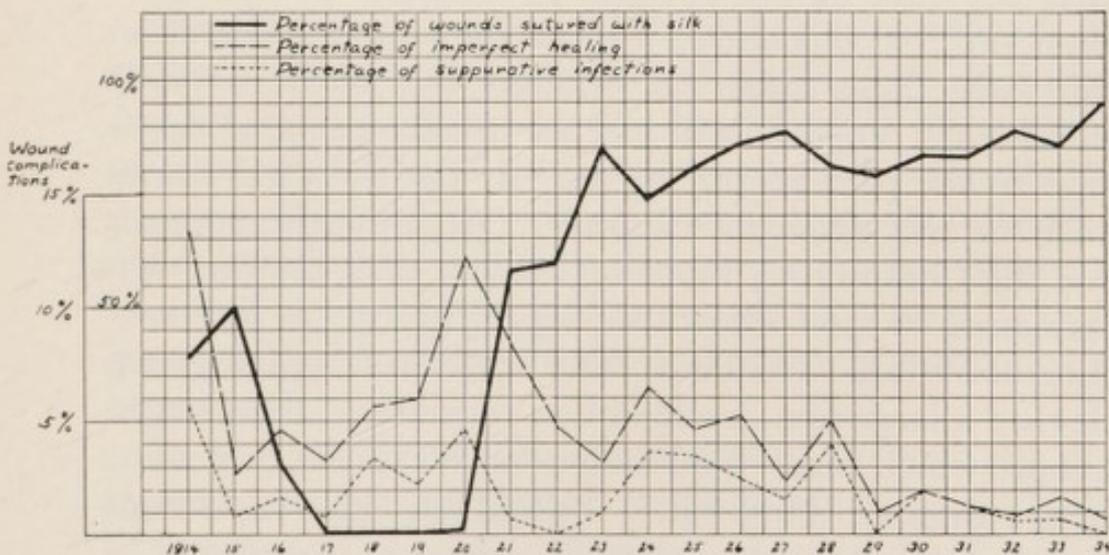
It is quite apparent from this table that a sufficient amount of work is being done and from the preceding study of Table A that there is a satisfactory diversification of the material. The question of real importance is whether the work is well done and I shall make some attempt, by quoting from recent papers by members of the staff, to evaluate this point.

Dr. Philip Shambaugh, while he was a member of our Resident Staff, reviewed the wound complications over a twenty-year period. This was reported in *Surgery, Gynecology and Obstetrics*, April, 1937, Vol. 64, pp. 765-771, and Chart I is one of the graphs from

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this publication. Dr. Shambaugh elected to study the wounds following inguinal herniorrhaphy since this is a standard procedure under presumably aseptic conditions where a large amount of suture material is used. This study was part of a major plan to study the difference in the healing of wounds repaired with silk and those repaired with catgut but as, in the study, it was necessary to look up every record and carefully evaluate the condition of the wound during the process of healing, we have at hand a record of the actual amount of infection in the standard procedure carried out in the Brigham Hospital for a period of twenty years. Note the very low percentages for imperfect healing and suppurative infections in hernia wounds at the Brigham Hospital in the later years. The Brigham series represents 2,360 cases, a larger series than those reported by Coley, Meleney, Morian and Eliason, to which reference is commonly made in the literature. Our total wound

CHART I



GRAPH SHOWING RELATIONSHIP BETWEEN THE EMPLOYMENT OF SILK AND THE ANNUAL INCIDENCE OF WOUND COMPLICATIONS

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complications represent 4.5% of the cases, a lower figure than reported by these other authors, and our suppurative infections were only 1.9%, an enviable record. Moreover the steady improvement in our technical performance is visualized by the decreasing number of complications as the years have passed. During the last five-year period studied, of 511 operations only five suppurative infections occurred, an incidence of 0.97%.

A study has recently been made by Drs. Dupertuis and Zollinger, members of our staff, of one thousand consecutive hysterectomy operations in the P. B. B. H. The mortality rate is 1.6% for the supravaginal group and 4% for the panhysterectomy group which is a little lower than the figures represented in the combined statistics in major gynecological clinics—2.4% for the supravaginal group and 4.1% for the panhysterectomy group. It is of satisfaction to us that in a general surgical clinic our mortality and morbidity figures are quite as good as those in the special gynecological hospitals.

Other data could be brought to bear to emphasize that the care of the patients is adequate in this Hospital and I would like to present for your consideration not only these statistical findings but recall to your minds that nowhere will you see greater personal devotion to the patients on the part of the staff and nurses than in the Brigham Hospital. At a recent pageant for the Community Fund of Boston, each hospital was requested to send something representative of the hospital activities. The Peter Bent Brigham Hospital group devised a large sign, made in box formation, about seven people which read "Each one of us serves every patient in the Brigham Hospital." Behind the sign was a doctor, a graduate nurse, a pupil nurse, a probationer, a dietitian, a social service worker and an orderly. Certainly every one of these people serves each patient and

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many patients have an even wider acquaintance; think of those who go to the X-ray department, to the metabolism laboratory, to the clinical biochemical laboratory or those who must have teeth, sinuses or their feet looked after in addition to receiving routine care. Think of the women who scrub floors, the men who push around the food trucks. Think of John Aiken and his band of carpenters, plumbers, electricians and jacks-of-all-trades. What of the pathologist in his dark corner or Miss Barker in the electrocardiograph room? It would really be impossible to give an accurate figure as to just how many people do have contacts with each of our patients and in addition think of the faces a patient must perforce see as we go about our teaching duties. In February, when the second-year course begins, second, third and fourth-year students are from time to time present on every ward until one wonders whether this is not a little overdone. Yet through it all, since the instructors are so obviously interested in the patient, the patient thrives, seems happy with the attention, and hopefully leaves us.

Finally, we can with pride turn to the opinion of others as regards this matter. Every Surgeon-in-Chief *pro tempore* has been literally astonished at the amount of time and thought put into the care of our patients, innumerable visitors speak of it and I may quote from a colleague's letter, "I believe that the Peter Bent Brigham Hospital has set a standard for medical practice which is unexcelled in the medical world either in this country or abroad."

In the matter of the establishment of such an atmosphere, we should give all credit to our original Chiefs of service. It was their devotion to every detail which dealt with the patient from the protection of his sense of privacy, the comfort of the bed, the neatness of the

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surroundings, the solicitude for the individual, the insistence of the quiet and studious atmosphere, the great example in thoroughness, to the intellectual appraisal of the diseased condition and its proper remedy that has given to our Hospital its present reputation. Their example set the "tone" and gave the "atmosphere" so characteristic of the Brigham methods.

It is hard to know where to discuss certain items since they reflect both better care of the patient and addition to education and knowledge. Thus the use of typewritten records, the use of colored linen in the operating rooms, the utilization of the Resident System, the establishment of an O. D. D. open all day, the bringing in of visiting chiefs *pro tempore* are all matters which both improve the care of the patient as well as contribute to a better organization for medical practice.

Contributions to Education and Knowledge.

For simplicity, we can adopt the same form as utilized above, that is, begin with statistical evidence. In the first twenty-five years the total number of publications from members of the surgical staff as they are bound each year has now reached the astonishing figure of 975. This might be said to represent industry only were it not that two items at least are of great importance, *viz.*, Dr. Cushing's contributions to the field of neurological surgery and Dr. Homans' most useful and practical Textbook of Surgery. It seems unnecessary to mention other publications and the many pupils of this institution who see this will know of the great importance of other contributions.

A notable contribution to education in this medical school was made when the clinical clerkship was established in Boston. This had its beginnings in Boston when Dr. Christian gave, at Dr. R. H. Fitz's request, an elec-

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tive course in fourth-year medicine in the wards of the Massachusetts General Hospital in 1905. Dr. Christian imported from Baltimore the method of clerkship begun by Dr. Osler in this country at the Johns Hopkins Hospital. A similar clerkship was established by Dr. Christian at the Carney Hospital when he removed there in 1907-8 and finally when the Brigham Hospital was opened, similar clerkships in both medicine and surgery began. That this method was not fully adopted elsewhere until much later I have personal evidence for in 1915, when I was Resident Surgeon at the Massachusetts General Hospital, I well recall being summoned by Dr. Washburn, then superintendent of the Hospital, to his office and requested to tell him why I thought the students on surgery should be allowed to participate as assistants in surgical operations and to come more generally in close contact with their patients. It is certain that the clinical clerkship as it is now in use in the Harvard Medical School, is a direct contribution from Baltimore, brought here first by Dr. Christian and first practiced in its present form at the P. B. B. H. Another contribution to teaching here was the setting up of a course for operative surgery which was conducted in the laboratory of surgical research in the medical school, and controlled by the surgical department of the Brigham Hospital. This course was directly stimulated by Dr. Cushing and modelled after the course he had previously given in the Hunterian Laboratory in Baltimore. Later on I gave a similar course for graduate students. Now many of the Boston hospitals offer a similar form of instruction in their own laboratories to third-year students who work in their out-patient department or O. D. D. Another considerable addition to the teaching at the Harvard Medical School directly emanating from the Brigham Hospital is the splendid course in clinical ap-

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plied anatomy now given by Dr. David Cheever. My investigation into the beginnings of this course is a little vague but by piecing out my written information with Dr. Newton who succeeded me as Resident Surgeon, we believe that Dr. Cushing in the fall of 1922 offered a voluntary course Saturday mornings to the first-year class at which time he demonstrated to the students patients who had disorders or abnormalities in that part of the body which the students at that time were dissecting in their course in anatomy. For the year 1923 I have copious notes of exercises that I gave as if I might well have batted for Dr. Cushing most of the time. Certainly I must have given the introductory lecture on October 6, 1923, for I have a full, long-hand copy of that particular lecture and in the same folder are notations of the patients demonstrated on October 20, October 27 and many of the subsequent Saturday mornings. The next year Dr. Cheever had finished giving his very popular and splendid course in surgical anatomy and from that time on, he took over the direction of this voluntary course. This has proved a most successful and beneficial undertaking. Over 150 students attended the opening exercises this year, and investigation revealed that students from Tufts and Boston University as well as our own class attend these exercises!

Further evidence of our educational accomplishment is seen in the great number of distinguished men who have had at least a part of their education in this Hospital. This list has been well reviewed by Dr. Cushing in the last annual report he wrote for the year 1931 in which he has listed separately those who have achieved high positions after leaving the Brigham Hospital. I would like to have amplified this list and to have continued the listing of the Arthur Tracy Cabot Fellows

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but the length of this report must be limited. In the same report, Dr. Cushing emphasized the great number of distinguished pupils from his special school of neurosurgery who have now spread into most civilized countries and have established a society in Dr. Cushing's name.

In commenting upon the graduates, it is of some interest that only rarely does a graduate of our surgical service remain in Boston. There may be several reasons for this, chiefly perhaps because their abilities have been early recognized and they have been called to posts elsewhere or often because they were people with mature minds who came to the Brigham Hospital for a definite training, knowing beforehand where they were to practice after acquiring their training. However this may be, it would be of advantage to the Brigham Hospital if some of its surgical graduates did remain and practice in Boston. Such graduates would certainly be warmly welcomed as members of our staff. Let us hope that another twenty-five years may perhaps see a little shift to this side so that the hospital which gives to individuals part of their training may benefit more directly from their subsequent careers.

Probably the organization of the staffs, both senior and house, has proven the most important of all our additions to medical practice. The full-time service set up by our original chiefs-of-service has proven so valuable that it has found wide application elsewhere. The opportunities for continuous service in the Hospital immediately resulted in better care of the patient and far better instruction to the house staff. The opportunity for the senior staff to have contacts both before and after the surgical performance with the relatives as well as the patient, resulted in the development of a greater sense of responsibility and thus improved the care of the patient. The continuous contact with the house staff

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resulted in the more rapid development of the young surgeon, in greater productivity, in an *esprit de corps* that a casual visiting staff could never have given rise to. Of all the Brigham movements, this is certainly its chief gift. That our Chiefs of Service resisted the more strict "full-time" service for clinicians as proposed by Mr. Flexner we should be very grateful. Time has proven their stand the correct one and gradually the leading schools are adopting more and more the form of service which was begun here.

Another pioneer movement commenced in our surgical respiratory laboratory where Dr. Walter Boothby, our original anesthetist, fresh from his studies with Haldane, applied tests for the basal metabolic rate to clinical disease. Nor should we neglect to mention the value to the early surgical group of Dr. Boothby's anesthesia instruction. The fact that a house officer fell asleep over the old Connell machine at Dr. Cushing's feet represented not so much our implicit faith in mechanical apparatus for ether anesthesia as the tremendous load borne by the house staff who, at the same time, ran the O. D. D., looked after ward patients, handed instruments in the operating room and gave anesthesia!

But enough of these meditations. Only those who look ahead make progress and my short residence in Dr. Cushing's shoes leaves me aghast at the complacency of a once forward-looking institution. We must cease to regard the past and resolutely face the future. Medicine continues to move along at an alarming pace and this Hospital must never relinquish its place "by the rail."

THE NEXT TWENTY-FIVE YEARS

It has been said that the great fire of Baltimore was the chief stimulus to the endowment and building program which has resulted in the modern Johns Hopkins

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Medical School and Hospital. That School and Hospital, apparently well endowed at the beginning, shortly found itself without sufficient funds to carry out needed changes. Only when the great fire destroyed their holdings and they were without adequate funds did the tremendous necessity arise for a great public appeal. This institution, urged by its dire necessity, then went to the public and the various organizations from whom funds might be secured, and built up their present endowment.

We are in a somewhat similar situation. Our funds also were largely invested in real estate, fortunately at first for the return was great from this source. But real estate has now become valueless as a source of income. It hardly seems intelligent to wait for a fire or an earthquake to force the recognition of the dilemma we must face!

The nature of our needs for a greater endowment has been covered fully in the annual reports of this Hospital. A study of these shows that today, with a far greater turnover of patients than when we began, we spend less money than was originally contemplated as desirable. For example, we have more members on our senior staff. In order that we can retain them for more complete service to our patients they should be paid a suitable salary. I have in mind as an example the employment of an otolaryngologist as a member of our staff. A few beds, five or ten, would give the otolaryngologist with a clinic in the O. D. D. a useful body of material, and if the individual also served the Children's Hospital the arrangement would benefit several groups. This would mean in turn that our house staff would receive education by an expert in a field heretofore somewhat neglected by us. Of far greater importance, however, would be an increase in our Resi-

dent Staff. We have almost the same house staff as when we began. We still have six internes. These internes and four Assistant Resident Surgeons must now serve a tremendously extended O. D. D. with special clinics for gynecology, genito-urinary surgery, orthopedic surgery, otolaryngology, with follow-up clinics, tumor and neuro-clinics, in addition to running the general clinics both in the house and in the O. D. D. For comparison, permit me again to call upon my experience in Cleveland. There we took over completely the system in use in this Hospital but fortunately were able to extend it somewhat. Let us examine the matter of admission to the O. D. D. Our O. D. D. was the first institution to remain open all day, a matter of great benefit to patients. We also began the system of appointments on the medical service and insofar as possible on the surgical service so that patients would not have to wait for long periods of time. But when a new patient comes to this O. D. D. he is sent to a clinic by a clerk who has little or no medical knowledge. Is this correct medical practice? It has long appeared to me that such assignments should be made by a doctor and if this were done we would need a full-time Assistant Resident Surgeon in charge of our O. D. D. After all the patient comes to the Hospital to see a doctor and correct medical practice is based solely on the patient. Moreover the sorting and distribution of new patients, best accomplished by representatives from both Surgery and Medicine, would give to our House Staff an important experience.

We must realize that the surgical internship, now a joint one with the Surgical Service of the Children's Hospital, is of twenty-nine months' duration and it may be that we shall eventually have to pay a very small stipend to the internes for their last year's service. It may

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even be necessary to add more internes if we are to apply to the large number of patients both in the O. D. D. and in the Hospital the careful study modern medicine demands and particularly if we are to work out a perfect follow-up system. I am of the opinion that the establishment of a follow-up clinic has been a considerable step forward. Heretofore, the follow-up on patients was largely through the mail. Now each patient on discharge, unless there be reason why he should attend the general surgical clinic for dressings, is given a date when he must return for a follow-up observation. At the same time we inform the physician who recommended him or her to the Hospital of what we have done and what further care may be desirable. The follow-up clinic is rapidly growing in size and value. Here the house staff gain a new perspective upon surgical practice by seeing the results of surgical practice. They begin to realize the duration of convalescence. To know the nature of the surgical ordeal itself is not enough. They learn to appreciate the attitude of the patient in his or her environment, learn to know how a surgical operation may affect the psychology of the patient and also affect his abilities to support his family. All this gives to our house staff a better understanding and therefore benefits our patients. This effort is cited here to emphasize that we are doing more work with no increase in personnel. If we are to maintain our high standards of medical practice and improve upon them as we should and as we desire to, we must either greatly curtail the turnover which is none too great for a well-rounded and general experience, or be better equipped with both men and materials.

A chief necessity is a considerable enlargement of the laboratory space. I mention first the medical labora-

tories for here we are facing the serious predicament of finding a candidate to succeed Dr. Christian. When this Hospital was opened, the facilities for clinical investigation in the way of laboratories were probably greater than existed in any other hospital in this country. However, this space not only has never been added to but urgent additional routine laboratory matters have consumed some of the area which previously was devoted to clinical research. I do not see how we can secure, as Dr. Christian's successor, what we should secure, that is, the most eminent physician available unless we can afford him proper laboratory space and the equipment he may desire. Furthermore, if we had greater laboratory space, we could have more workers in the Hospital. There are plenty of applicants, frequently men from Europe, happy to come as volunteers without salary but we have no space for them and at present we have adopted the policy that it is better to take on a very few people and train them adequately than to crowd into cramped quarters people who can do little else but stumble over each other.

The same plea may be made for the pathological laboratory. At the Brigham we have the tremendous advantage of the services of the Professor of Pathology as our pathologist. He has working under him in the Medical School several brilliant, well-trained young investigators, some of whom would prefer to work with him in a hospital laboratory on clinical pathological problems. We must forego all of the advantages of having in our midst such eager minds. They must remain in the school where they can be given proper laboratory space. Our laboratory quarters in pathology are tremendously overcrowded. The Resident must work with the Chief Pathologist in a single room. There is insufficient place for animal quarters. The apparatus

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is antiquated and incomplete. The autopsy room is poorly lighted, execrably ventilated and too small. And we have almost no provision for adequate Bacteriology which is the very basis of surgical practice.

When one considers the surgical building, we face the same issues. The quarters have been unchanged since 1913, the original type of sterilizers are still in use. The turnover of patients is greatly increased, but we have the same staff and the same facilities. Sterile instruments must be carried across a corridor used by visitors and patients. Advances in anesthetic apparatus find us unequipped since we cannot afford such expensive items. The quarters originally assigned for the recovery of patients have to be utilized for storage of apparatus. We have spread into the wings of the amphitheatre for the care of the recovery period of our patients. We use poorly sharpened knives since we cannot afford the best type available. If we wish to buy a simple necessary piece of apparatus, such as an underwater electrical scalpel, it takes months of careful consideration to find the small amount to pay for it. We have to set up in our operating rooms the sterile supplies for the whole plant and thus crowd our operating room nurses with a great labor when their minds and time should be concerned with the care of the patient whose life is jeopardized at the operating table. Somewhere we must find space for a central surgical supply and sterilizing plant. The making up of surgical supplies and their sterilization is not a task for the operating-room personnel. In this same space should also be centered the manufacture and sterilization of fluids for intravenous and subcutaneous use now carried out in space generously donated by pathology but by this very necessity further crippling this splendid department. All such activities and many others need to be pulled together in a common place.

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In the same building, the surgical clinical laboratory has increased its activities tremendously. We do our own biochemical analysis and the space is crowded inconceivably. The metabolism laboratory, now taken over by our sister department of medicine, utilizes space which the surgeons sorely need. Patients brought to our biochemical laboratory for study must wait in the draughty corridor without adequate nursing supervision. Photography is carried out under great difficulty and is partly supported by annual gifts so that we never know how long we will be able to continue this activity.

There should be room for a department of anesthesia in the surgical building. It is a sorry commentary that in Boston where anesthesia first began we are not developing a school for anesthetists. Think what an opportunity there would be for such a school! There could be a Professor of Anesthesia, with headquarters in the Medical School and Associates in each of the major hospitals about it, the Lying-In Hospital, Children's Hospital and Brigham Hospital, who should rotate through these services, acquiring experience in the anesthesia for children, for the lying-in patient and for all varieties of adult surgical practice. There is no place in the United States where a better diversification or more material could be given for such a school. We have long done well with nurse-anesthetists though we began with Dr. Boothby, a doctor-anesthetist. Indeed, we owe a great debt to Miss Gerrard, her assistants and the other nurses who have served in this branch of surgery, but should we rest content to let it go at that? Should not we be among the leaders in pushing forward research in this field so that man can be given greater safeguards when undergoing surgical ordeals? There have been informal discussions concerning this matter for many years; now we should act. The Massachusetts General Hospital

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already has a doctor-anesthetist. The Trustees of the Children's Hospital and the Lying-In Hospital have already voted stipends to secure competent doctor-anesthetists. Our Hospital should do the same. Indeed, we should be the leader in fact, as perhaps we have been a leader in thought. Where are the funds to come from?

When one comes to the care of the patient on the ward, there are many rearrangements which would be wise. Our wards need better lighting and there should be more single rooms for the care of critically sick patients whose presence in an open ward is undesirable. People sometimes are desperately ill or recover from their anesthesia with other patients in the open wards. This is really inhuman and should not be tolerated in a modern hospital. Such critically ill patients should be isolated in separate rooms. Moreover, our wards need better service rooms. We still boil our instruments, etc., near the hopper with its dangerous bacterial content! We have no modern method of caring for excreta or for sterilizing bed pans. Understaffed with nurses, we must put them to extraordinary physical labor to accomplish their daily tasks. We cannot afford apparatus that would simplify these labors.

A matter which would greatly assist our nurses would be the establishment of a central receiving and discharging ward. This ward might be best located in the Administration Building. Now when a patient is admitted, he is brought, often dirty and frequently noisy, to our clean, quiet ward; there his clothes are taken away, and the nurses, who should be busy with sick people, must take the clothes down to the basement and store them. If this occurs at night, the whole ward may be awakened and upset. Again when the patient is to be discharged, people who should be busy on the wards must find these clothes, wash the patient and discharge

him. If we had a central receiving and discharging ward, patients would be admitted, bathed and their clothes stored there. Such a ward should have a competent orderly and nursing staff, and moreover would serve the further useful purpose of a place for the overnight observation of certain types of cases. There should be a few beds, perhaps eight or ten, in this ward and a patient having to stay in the Hospital overnight after a slight accident could remain there and not be brought to the busy ward to disrupt its routine. There also patients upon whom perhaps a lumbar puncture or some special therapy had been carried out in the O. D. D. could stay overnight. The badly damaged case, covered with dirt, could be studied there far better than being taken to our wards where he so greatly disrupts the routine care of others.

And while I am discussing matters that pertain to our nursing service, I would like to make a further suggestion. What I have to say concerning the school of nursing must in no way detract from the tremendous satisfaction I have always had with the pupils of our training school. I know of no place where nurses are better trained for the profession of nursing. It is true, however, that they are trained at great personal sacrifice by their teachers. Every one on the nursing service works overtime. There are an insufficient number of instructors and supervisors. Nursing practice must be learned on the ward but we have an insufficient staff to teach this practice and oversee the tasks. This is not for the best of our patients and indeed may have serious consequences. Consider the critically ill post-operative patient who must be catheterized. If the young pupil nurse cannot be properly instructed, an added cystitis may tip the scales against recovery. It is time that a special endowment be erected for the School of Nursing.

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Another activity which needs immediate help is our X-ray Department. Its quarters are now overcrowded, badly lighted and poorly ventilated and it cannot afford modern types of X-ray apparatus. Let us examine a single item desired by Dr. Sosman. He has long requested a tilt table, useful for all forms of fluoroscopic work but particularly for studying intraspinal disorders after the instillation of opaque substances. The Hospital cannot afford this apparatus. Moreover, more service is necessary in the X-ray Department. We cannot even afford to pay the Resident in Roentgenology a sufficient salary, and the waiting of patients in draughty corridors is undesirable.

As a part of the discussion of the need for more medical laboratory space, we must face the issue of the great importance of the advent of biochemical methods into clinical usage. We have no adequate central biochemical laboratory. In addition to space we should have sufficient funds to maintain a biochemist as a member of our staff. This is a matter which Dr. Christian has repeatedly urged.

In my contemplation of the next twenty-five years, I sincerely hope that the Medical School will make use of the opportunity to draw the Brigham Hospital closer and closer to it. We might well have more active teaching clinics at the Brigham Hospital and indeed extend somewhat the scope of our work if the Medical School saw fit to help us. For example, an otolaryngological service at the Brigham and Children's Hospitals with the basic medical sciences nearby in the Medical School, should stimulate academic work in this important field. Further, the urological services at these two hospitals and at the Lying-In Hospital could be united advantageously. Dermatology, syphilis, anesthesia come in the same category. It would appear that there is a great general hos-

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pital adjoining a Medical School of which that Medical School is not making full use.

The graduates of this Hospital should know that great effort has already been made to remedy our financial structure. Our Trustees thoroughly realize their dilemma and have started to place their house in order. In the first place, both members of our Staff and the Trustees have played a large part in the campaigns of the Community Federation of Boston. Two of our Trustees have been chairmen of the annual Community Fund drive and each year this Hospital secures a large sum from the Community Fund Campaign. This, however, in no way restores the capital depleted yearly, a capital further endangered by the necessary expenditure of capital funds to keep the Hospital going, even at the lowest level of efficiency, necessitated by drastic financial curtailment. Moreover, as reported last year, a drive is on foot to rebuild the surgical pavilion as a memorial to Dr. Cushing. This is an integral part of a larger plan to restore capital endowment. A plan which will produce greatly enlarged space for medical laboratories, pathological laboratories and the X-ray Department as well as rebuild the surgical pavilion has been worked out. Plans are also on foot for enlarging the Nurses' Home, for a central receiving and discharging ward, and some addition to the O. D. D., especially an additional opening directly upon Huntington Avenue which would house the increased Social Service Department, the record room, and members of the Senior Staff devoting their time to the O. D. D. A contemplation of the future and a study of what has happened in other cities, leads us to feel that the group insurance plan will probably succeed. Should this occur in Boston, it would mean that we would care for a larger number of patients on a semi-private basis. Such an increase might conceiv-

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ably occupy all of the space in Ward A. Space there which is not used for this purpose could be devoted to the specialties of otolaryngology and ophthalmology in the surgical department and neurology and dermatology in the medical department. Should this occur, it will be necessary to construct a new small private ward which would be better located in the empty space beyond Ward F. To care for all this construction, renovation and equipment would necessitate one million and one-half dollars. With these additions we would have adequate equipment and space for another twenty-five years. To build, of course, without endowment for perpetuating all this would be foolish and such new building would need a million dollars to endow it. In addition to this we must return the original capital losses. This amounts to another two million dollars.

There is no sense in mincing matters. We must squarely face this issue. Only when we face it, shall we overcome it. It is natural to expect that the clinical staff will assist Trustees largely in the collection of these sums, but primarily, the finances of the Hospital are the concern of the Trustees. The professional staff has its task in the care of patients, the teaching of students and the investigation of medical problems; this leaves them little time to cooperate in raising money. Certainly this does not appear to be a happy time to search for funds but only when we try shall we find a solution. The Trustees know this and, with the help of the weighted opinion of our graduates, we shall be able to accomplish what we need.

Respectfully submitted,

ELLIOTT C. CUTLER,

Surgeon-in-Chief.

DECEMBER 31, 1937.

Report of the Physician-in-Chief

THIS, the twenty-fourth annual report of the present Physician-in-Chief, has been written amidst actual or pending twenty-fifth anniversaries of various Peter Bent Brigham Hospital happenings as the following list shows:

- January 1, 1938, 25th anniversary of housing and feeding resident staff
- January 27, 1938, 25th anniversary of first surgical admission
- January 28, 1938, 25th anniversary of first surgical operation
- March 5, 1938, 25th anniversary of opening of laundry
- March 31, 1938, 25th anniversary of first medical admission
- April, 1938, 25th anniversary of gradual opening of Administration Building
- April 19, 1938, 25th anniversary of opening of C main
- April 21, 1938, 25th anniversary of opening of C second
- April 29, 1938, 25th anniversary of first use of Surgical Building
- May 15, 1938, 25th anniversary of first use of Clinical Amphitheater
- May 21, 1938, 25th anniversary of opening of Out-Door Building for ambulatory patients
- July 1, 1938, 25th anniversary of opening of E main
- July 16, 1938, 25th anniversary of opening of D main
- October 6, 1938, 25th anniversary of opening of D second
- October 6, 1938, 25th anniversary of opening of F second
- October 11, 1938, 25th anniversary of opening of E second
- October 29, 1938, 25th anniversary of beginning ambulance service

In fact, the first quarter century of the medical service was completed during 1937, since the medical staff

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was organized in the spring of 1912, during that summer members of the staff visited and studied in clinics abroad, in the autumn work by the Medical Staff was begun in the laboratories of the Department of the Theory and practice of Physic in the buildings of the Harvard Medical School in which also a clinic for ambulatory patients was being conducted and toward the end of 1937 the medical staff commenced its periodic dining together as guests of the "Chief" around a table covered by a linen cloth on whose center was embroidered "Medical Staff—Peter Bent Brigham Hospital" and about which from time to time since then have been inscribed, and subsequently embroidered, the names of all members of the Medical Staff, while scattered about beyond this charmed circle similarly appear the names of many guests, who during these twenty-five years have graced our board.

As past and present members of all departments of the Hospital have been invited to gather on May 5, 6 and 7, 1938, in reunion to celebrate the twenty-fifth anniversary of the Peter Bent Brigham Hospital, this annual report would seem a fitting occasion to present in review something of what has been happening in the Medical Service during the first quarter of a century of its existence.

Pioneer Features of Staff Organization. In these years since 1912-13 the organization of the Medical Staff, as planned by the Physician-in-Chief and approved of by the Trustees before the Hospital opened, has had no change other than the increase in 1927 of the Medical House Officers from eight to twelve in order that on the wards there be three services instead of two and in the O. D. D. three house officers instead of two, the addition in 1925 of an assistant resident physician for the care of certain private patients and in 1935 of a second

one for this purpose and of a special one for Dr. Burwell's laboratory, and the gradual increase in the members of the visiting medical staff from four, listed in the first annual report, to twenty-eight in the last, now graded as Physician-in-Chief, Physician, Senior Associate in Medicine, Associate in Medicine and Junior Associate in Medicine. In passing it is of interest that latterly the faculty of the Harvard Medical School has adopted the term, Associate, for a group of its teachers. The general plan of work of the resident staff has remained unchanged except for the addition in 1935 to the house officers service of four months spent at one of the Massachusetts state psychopathic hospitals. The work of the visiting staff has been changed in numerous minor ways from year to year with the fundamental objective of providing the best possible service to our patients and at the same time giving to as many physicians as possible, largely our own graduates, that stimulating training that comes from periodic service in a well-organized hospital, among whose several objectives is a fine post-graduate training for the younger men composing the resident staff.

In 1912-13 this plan of organization was unique in American hospitals. Nowhere else could there be found the combination of graded, responsible, progressive house officer or interne service and a supervising super-interne staff of assistant residents and a resident; the Johns Hopkins Hospital alone in the United States had this type of super-interne staff but not a graded house officer service. House officers from the beginning have been selected by competitive examination, and the members of the resident staff at all times wisely have been drawn from widely scattered medical schools.

For the first time in the United States we instituted on opening the Hospital an all-day service for ambula-

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tory patients, later with patients coming by appointment. Both of these were pioneer developments. These ambulatory patients have been cared for by house officers after the house officer had completed the training of the graded ward service, a type of service in which the house officer carries on the medical work as might be expected in the well-equipped office of a practicing physician and in addition has available on easy call for consultations members of the visiting staff present in the Hospital throughout the hours that the Out-Door Department is open for patients. This last phase of the medical service continues almost unique, so far as I know, in the United States; although for twenty-five years it has worked admirably for us and been a greatly valued part of our house officers' training, it seems to have had no imitators except at the Lakeside Hospital, Cleveland; it has saved us from all the worries of the uncertainty of attendance of unpaid practicing physicians and from the cost of paying for this service; as time has gone on the house officers have had less and less need for consultation advice.

Our plan of organization provided at the outset for a physician-in-chief and one or more physicians with offices in the Hospital, where they could see private patients, and a private patient ward service, these members of the staff being remunerated in part by Hospital and medical school salaries and in part by payment from private office and ward patients. So far as I know this, too, was an arrangement unique at the time in American hospitals.

Another plan, still almost unique, was instituted in 1913, when Dr. William S. Thayer came as our first Physician-in-Chief *pro tempore*. Each year since then some eminent physician has come to live for a stated time within the Hospital in close association with the

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members of the resident staff to conduct the medical service and make ward visits. In 1920 this plan was adopted by our surgical service. To these men we owe much in the way of stimulation and the introduction of better ways of medical work. They have become among our most enthusiastic graduates, if by any fashion of phrase we can call this group, actually our teachers, our graduates.

Curiously enough the outstanding defect in this plan of staff organization of ours has seemed to be its effectiveness. It has worked so well that never have we been able to persuade our Trustees that there was any need for increasing expenditure for professional service at the Peter Bent Brigham Hospital, even though the original plan as accepted by them called eventually for a budget of between \$5,000 and \$6,000 more than has ever been paid. This was stated in my annual report for 1931 in the following words: "This original plan for organization of the medical and surgical staff, when it was fully developed including special departments in the Out-Door Department, called for an annual budget for the salary of the professional staff amounting to \$29,800, or without the special departments \$23,800. Twenty years have passed since these recommendations were acted upon favorably by the Trustees; in 1931 the actual budget from the Hospital for the medical and surgical staff was \$24,931.05. It is noteworthy that in this twenty-year period no one of these professional salaries has received any increase, and though individuals have been added to take care of the increasing work of the Hospital, the total budget is essentially that advised twenty years ago for the same professional service to the Hospital and is nearly \$6,000 less than what was then considered a reasonable development of the medical and surgical work if special departments in the

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Out-Door Department were developed." In February, 1932, these salaries were reduced by 5 to 10%. Only in 1937 has a partial restoration of this cut been made.

From the beginning the history, physical examination and the various notes made, constituting the patients' house record, all have been typed; this has rendered our records easy of study and has stimulated an unusual degree of completeness of detail in them, valuable both in the study of progress of disease in the individual patient, as the patient returns from time to time to the Hospital, and in the preparation of clinical studies for publication. From this data already important facts of medical interest have been contributed to medical literature. In few places, if any, have better clinical records been accumulated than those of the Peter Bent Brigham Hospital, a thing often commented on by visitors from other clinics at home and abroad.

Very early in the development of the Out-Door Department the plan of class or group management of patients with the same disease began and has been steadily extended. In this way more patients can receive better medical guidance than when dealt with only individually. Also this has proved an effective way to study numerous problems of disease. An effective Social Service, closely integrated with the professional care of the patients, has helped greatly in this as well as in all other phases of the work of the medical service.

Another pioneer development was the installation, when the Hospital opened, of an electrocardiographic laboratory with wire connections to the wards. At this time there were but two of these instruments in the United States, neither in a general hospital. This instrument was purchased by the Physician-in-Chief from the Cambridge Instrument Company of England after personal investigation of such apparatus in

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Germany, Holland and England. I installed it, using hitherto untried methods for prevention of disturbing outside vibrations and for connections with patients remote from the apparatus, some almost two city blocks away; for several years I personally operated it with the help of Miss Barker, still a worker in our laboratories, and of Dr. Samuel A. Levine, who later took over and has continued direction of this phase of our work. At an early date we began making routine electrocardiograms on patients and ever since then have continued them on all patients with any suggestions of abnormality of the heart. In the second annual report 1,189 of our electrocardiograms were tabulated by diagnosis of what they showed.

When the P. B. B. H. was opened a laboratory for carrying out the Wassermann reaction for the diagnosis of syphilis was established under the direction of Dr. Chandler Walker. Soon routine Wassermann tests were made on every medical admission, and this has been continued, a practice in which the P. B. B. H. was a leader. In February, 1916, Drs. Walker and Haller published a paper entitled "Routine Wassermann Examination of Four Thousand Hospital Patients."

In May, 1930, the American Heart Association recommended "that tablets or capsules of powdered digitalis leaves be dispensed in all cases where digitalis is indicated, except in emergencies." When the P. B. B. H. took its first medical patients on March 31, 1913, was begun just this routine of digitalis therapy in heart disease, probably the first hospital in the United States to use routinely this preparation of digitalis; this has continued until now.

The clinical use of determinations of basal metabolic rate had very early use at the P. B. B. H. under Dr. Walter W. Boothby, who on June 7, 1916, before a

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meeting of the Massachusetts Medical Society reported "600 determinations of basal metabolic rate on 140 patients during the past year in the Respiratory Laboratory of the Peter Bent Brigham Hospital" and concluded that "basal metabolism for clinical purposes can be obtained with a high degree of accuracy by collecting, measuring and analyzing the expired air" and that "several cases of thyroid dystrophies, in which the basal metabolism was determined, are cited to illustrate its value in diagnosis and in determining the proper method of treatment." This was pioneer work. Dr. Boothby then was "Supervisor of Anesthesia" on our Surgical Service; now he is "Head of Section on Metabolic Investigation" at the Mayo Clinic, Rochester, Minnesota.

The P. B. B. H. has been a leader too in adding to its resident staff, a dental house officer, at a time (1930) when this was an unusual thing and in providing psychiatric training for medical house officers in 1935 by sending them for four months' resident work at one of the Massachusetts state psychopathic hospitals just prior to commencing ward work with us.

Early in the annual reports it began to be stressed that the most desirable way of growth for the P. B. B. H. was to provide better treatment and more thorough study of patients already provided with bed care rather than to increase the number of beds; in other words, a better rather than a bigger hospital. From the outset the plan has been to have a general and not a special type of medical service, to give patients the benefit of the knowledge of those who had special fields of interest but not to subdivide the service so that to the gastroenterologist, the cardiologist, etc., beds would be allotted. Also the plan has been adhered to that, whatever special interest a member of the staff developed, always would he be compelled from time to time to take the

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responsibility of the care of patients just as they were admitted to a given set of wards in relation to vacant beds but not in relation to what disease the patient had, in the belief that no specialist would be other than a better specialist by reason of studying from time to time all sorts of diseases. This has given to our younger men, and especially to those on the resident staff, a very broad general training in medicine. This type of service today is almost extinct in the United States, but your Physician-in-Chief believes that this type of service has been a very important factor in the very phenomenal success that our graduates have had in their subsequent medical careers.

Accomplishments of Past Members of Medical Staff. What the graduates from the resident medical staff have done, the variety of their activities and the positions they hold in widely scattered communities is a source of the greatest possible pride to those of us who have had a part in their training and is an evidence of the soundness of the basic training that was given at the Peter Bent Brigham Hospital. A straight or continuous medical service, such as we always have given, has trained men basically so well that in subsequent years they have attained prominence in many and varied fields of professional work, a fact that might well be considered seriously by those who insist that a rotating service is the only acceptable one, a type of service often rotating the house officers so rapidly that on a given day they scarce know whether they still are surgeons, already pediatricians or possibly obstetricians or just becoming physicians, neurologists or dermatologists or whether their tool for the day is to be a stethoscope, a scalpel or a pair of forceps. Former members of our resident staff in medicine are active in such varying capacities as general practitioners in small towns and

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large cities, consultants in medicine, surgeons, ophthalmologists, pathologists, physiologists, biochemists, pharmacologists, dermatologists, otolaryngologists, public health officials, hygienists, hospital administrators, allergists, cardiologists, endocrinologists, gastroenterologists, urologists, neurologists, psychiatrists, roentgenologists, specialists in diseases of the chest (tuberculosis), professors and deans in medical schools and schools of public health, in federal government service with Army, Children's Bureau, Food and Drug Administration. How to judge success in these capacities is difficult. The person who does his job well, is a success. We take no less pride in the successful practitioner than in the professor. In many respects the former in a small town has had the harder job. In the field of academic medicine faculty rank is some measure of success. That at last count the P. B. B. H. medical service had trained 26 professors, 3 clinical professors, 17 associate professors, and 30 assistant professors, a total of 76 with professorial rank, would indicate that their training must have been good to merit such success.

Unattained Needs of Medical Service. Now to turn to less pleasing aspects of our past. Very early in these annual reports the great need of a chemist for the Hospital began to be stressed. Over and over again it was pointed out that in the field of chemistry, more than anywhere else, were to be expected important advances in medicine. It was emphasized repeatedly that many of our laboratory procedures lacked a needed certainty of accuracy that only could come from having a well-trained chemist working daily in our laboratories. On numerous occasions, beginning in the first few years of the Hospital, requests for a chemist have been made of the Trustees. All of this fell on deaf ears; still there is

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no chemist; all that was said in the effort to get one, time has shown to be justified. *Today, as in the beginning, the outstanding deficiency of the medical service is the lack of a broadly trained high grade chemist.* That your Physician-in-Chief has never succeeded in securing any response to this request of the Trustees is one of the greatest regrets of his twenty-five years of active service.

For a long time now the medical service badly has needed larger and better laboratory quarters. In 1912-13 this provision was far in advance of almost all other hospitals in the United States; in 1937-38 it is practically certain that no hospital of similar size and function has so poor provision for laboratory work. Eleven years ago, in the 13th Annual Report (1926), the Physician-in-Chief commented as follows: "With the addition to the Administration Building completed, the next constructional need is an enlargement of the laboratory building. The pathological department of the hospital is in great need of more space. * * * An addition to the present building would provide these" (things needed by the pathological department) "as well as give more space for the laboratories of the medical service, which are becoming badly overcrowded with the increase in the size of the staff." Again in the 15th Annual Report (1928) I said: "The need for increased space for the laboratory work of medical, surgical and pathological services has been referred to in previous annual reports. The need of this space becomes increasingly marked each year, as new makeshifts are put into effect to accommodate workers, ready and willing to investigate problems whose solution would add to the efficiency of the care of our patients. No one can foretell when such work will result in something of extremely great import, such as was the case with the liver

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treatment of pernicious anemia, referred to in the last annual report, a treatment which in a very brief space of time has become world wide in use and has received general acceptance as the only satisfactory way to treat this disease which, before liver treatment, was almost invariably fatal. The boon that insulin has been to the diabetic is another example of the great importance that may attach to clinical investigation such as the Peter Bent Brigham Hospital is in a position to carry out. With both of these discoveries it is noteworthy that, though animal experimentation played a part, it was only on the human patient with the disease that the bulk of the critical studies could be made. It is solely in the hospital that most new methods of diagnosis and treatment can be investigated and hence the importance of providing our hospitals with entirely adequate laboratory facilities and the money to finance investigation, so that such investigations may be made." In various wordings this need has been reiterated to fall, so far, on deaf ears.

Another outstanding need of the Medical Service has been for funds for the special study of medical problems. As early as 1918 this need began to be stressed in annual reports. Then I said in the 5th Annual Report: "Five years' work of the Peter Bent Brigham Hospital has demonstrated that excellent investigation may be carried on—in fact that is necessary to the satisfactory development of the Hospital. Special gifts for such yield large returns. The time is ripe for the undertaking of a number of studies sure to help in a better treatment of our patients. Several gifts of from \$5,000 to \$10,000 per annum repeated over a period of from three to five years would be most helpful." The opportunity for worthwhile accomplishment with the use of gifts for such investigation remains. With very meagre

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funds what has been accomplished in investigation in this twenty-five-year period reasonably would seem to justify continued prayer for beneficent donors of large funds for medical investigation at the Peter Bent Brigham Hospital.

The oft-repeated requests of Dr. Cushing and myself for more space for a larger resident staff were answered in 1927 by a considerable addition to the Administration Building built out of capital funds of the Peter Bent Brigham Hospital as were the additions to the Nurses' Home and that to Ward A for private patients. No other structural changes of more than minor importance have been made since the Hospital plant was completed in 1913.

From an early day the professional staff repeatedly has urged on the Trustees the need for securing larger endowment to make possible better care of the patients. It was pointed out that all other Boston hospitals were steadily increasing their funds as the result of active drives. In the second annual report (1915) it was said: "It is believed that gifts of money can be employed in connection with the hospital work in a way to yield very satisfactory results, inasmuch as the wards and laboratories are well equipped for the intensive study of man. Furthermore all such gifts make possible a more minute and comprehensive study of the individual patients that come to the Hospital and thereby materially enhance the value of the institution to our patients." From the third annual report (1916) let me quote: "In 1916 our maintenance utilized all available moneys. It can be said that our development so far has been satisfactory and that on the whole what we have done has been well done. However, from now on, growth must cease unless our earnings and endowment funds are increased; in fact retrenchment may be forced upon us on account

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of the increased cost of almost everything. Two courses lie before us: The one consists in continuing to do from year to year what we have done in 1916, decreasing or increasing the work with annual fluctuations in the cost of materials and the earning power of invested funds. The other course depends on securing additional funds to allow of expansion and growth. If we determine on the first course, we run the grave risk of retrogression, for the institution which ceases to grow almost inevitably stagnates and begins to decay. It seems to be an attribute of the human being to be unable to remain stationary in equilibrium, and this is certainly true of medical institutions. Owing to these conditions it seems only reasonable to sound a warning in this report, and to emphasize the needs of the institution, for I feel sure that all connected with and interested in the Peter Bent Brigham Hospital are concerned keenly in its future development."

From the 5th Annual Report (1918) comes: "Complacency, whether in men or in institutions, is to be likened to an insidious disease with almost imperceptible beginnings but steady progress until soon it is beyond cure. If satisfaction with what was done under the limitations of war work has led us to complacency, then a chronic disease has begun in our organization. That this may not be the result let us frankly review and candidly criticize our work during the four years of World War and particularly the last eighteen months of our own active participation therein. * * * The opportunity eagerly to study the new problems presented of late has not been made use of as in the past. * * * A recognition of these conditions can become a great good to the Hospital. War limitations should emphasize and accentuate the condition that existed several years ago. Then, as was pointed out by me in the 1916

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Annual Report, the Brigham Hospital had attained its development with existing resources. Our entire income was being spent on present undertakings. Expansion and growth depended on additions to endowment. Without them growth would cease. A plan for future development had been prepared and submitted by the staff to the Trustees. War made inadvisable the pushing of these plans. Now that war is over, our efforts should be directed toward carrying out these plans, modifying them, if necessary, to fit present conditions. Every delay will mean not alone delaying our advance, but possibly make advance very doubtful, for unfortunately institutions like individuals easily acquire complacency and satisfaction in mediocrity, and once acquired these make progress very improbable. It must be remembered that much of the good work mentioned in this and recent reports represents the impetus of past years. A close analysis, to my mind, shows a decrease in volume and a loss in quality. The Hospital and its staff need the stimulus of new projects, additional men, new lines of investigation. Naturally you ask: What effect has all of this on our patients? Are they any the less well cared for? Yes, they are less well studied, less carefully diagnosed and less efficiently treated when the staff is not eager-minded in new problems. Then routine is maintained in routine fashion and, however thorough the routine, slips occur which are less apt to be discovered than when the staff is permeated with a feeling of progress."

From the 7th Annual Report (1920) this statement is taken: "It needs to be realized that, with an increased cost for practically everything, an unaugmented endowment can meet the situation only by curtailments. Curtailments in an efficiently organized institution can but mean decrease in the efficiency of the work. Let us

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frankly admit this fact. Actually we have had more work to do and in many respects less to do it with during 1920, and so it has not been so well done. If we are not to regress, we must have more funds; if we are to progress, our needs must be admittedly large; I feel sure that for any institution a failure to progress inevitably leads to regression, and we cannot afford not to grow after the accomplishments of our first few years of existence. The staff has curtailed its activities cheerfully during the emergency of acutely decreased resources; if the staff is willing complacently to continue to do so over any long period of time, the Trustees should begin to think that they need a new staff." From the 8th Annual Report (1921) I quote: "The Hospital spends less now on the professional care of each patient than it did in 1914, notwithstanding the fact that wages of nurses, orderlies and helpers, drugs and supplies have increased in cost during this period. Moreover, the same salary expenditure is made now as in 1914 for physicians and surgeons, though they care for 52 per cent. more house patients and 64.5 per cent. more Out-Door Department visits. On the medical service the same sized resident staff, a salaried visiting staff one larger and several additional voluntary workers (Associates in Medicine), as compared with the staff in 1914, are now caring for 78 per cent. more house patients and 82 per cent. more Out-Door Department patients"; and from the 9th Annual Report (1922): "It seems to me that no better way could be found for marking the beginning of our second decade than organized activity under the leadership and guidance of the Board of Trustees in the securing of increased funds to permit of the carrying out of developments so earnestly desired by the staff of the Hospital. Ours is certainly the only hospital in Boston whose trustees during the past ten

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years have inaugurated no organized effort toward securing funds for improvement and enlargement of hospital activities."

In the 11th Annual Report (1924) we find: "As the years have passed, it is evident that our present organization makes inadequate provision for maintaining a satisfactory level of investigative work. Resident Staff actually has had the hours available for research curtailed, because with increased demands on their time for routine work, less and less has been left for investigations. Salaried members of the Staff have had more routine work, and by nature of the plan of organization, as just pointed out, have needed to increase the time devoted to private patients. To meet the former curtailment an increase in the number of men on the Resident Staff, as described in earlier reports, is needed." (This increase was made in 1927.) "To meet the latter there should be created one or more positions with salaries beginning at \$3,000 and increasing to \$5,000, to be held for so long as the incumbent is a productive worker and willing to devote the major portion of his time to investigation, teaching and a minimum of hospital routine. These men should teach in the Medical School, and their salary provision then may become a joint arrangement between hospital and school. The addition of two positions of this kind would round out our present organization into a very satisfactory one and greatly increase the effectiveness of the institution as a trainer of high-grade men and as a contributor to medical knowledge." These quotations have been drawn, as indicated, from previous reports.

Dr. Cushing, too, did not remain silent on the need for money for bettering the work of the Peter Bent Brigham Hospital as shown by a few excerpts from his Annual Reports. In 1919 Dr. Cushing wrote: "In

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short, it is vital, if we are to live up to what is expected of us and what we are capable of, that our house-quarters be enlarged and that provision be made for an increment in our staff. As my colleague, Dr. Christian, has emphasized, an institution cannot mark time; it goes ahead or falls behind, one or the other. Unfortunately it must be the duty of the staff to point these things out; others must provide the funds which can be available for research. There can be no possible investment more remunerative in the long run nor more satisfying to the giver than a sum of money put at the disposition of an institution of this kind—and the same thing applies to all hospitals similarly equipped—for special investigation by a well-trained young man who, for the purposes of furthering his studies, can be freed for the time being from the killing routine of the clinic and operating room. * * * An insistent desire for progress in a forward direction and discontent with the stationary type of machine is a healthy spirit in any hospital, and so long as it exists the calamity of self-satisfaction may be avoided. To quote again, if I may, from Dr. Osler, there are three signs by which fogyism can be recognized in an institution (or man). They are: 'First, a stage of blissful happiness and contentment with things as they are; secondly, a supreme conviction that the condition of other people and other institutions is one of pitiable inferiority; and thirdly, a fear of change, which 'not alone perplexes but appalls!'

Again in 1920 Dr. Cushing said: "What the Brigham Hospital and what most hospitals in a like situation need above all things is provision for a greatly increased staff, so that everyone can be freed for a part of his time from all clinical responsibilities and so that any individual who becomes engaged in an investigation which promises some reward may absent himself for the time being from

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his routine duties at the bedside and operating table. As it is, with a junior staff of the same size as that with which we started out nine years ago, our ward work has about doubled. Only an exceptional man, therefore, one capable of longer hours than others, able to shake off responsibilities and to concentrate upon mental tasks not directly related to the care of his patients, will perhaps manage to accomplish something apart from his routine duties." In 1928 he added this in the 15th Annual Report: "*House Plan for Hospitals*. Of all the hospitals affiliated with the Harvard Medical School, we alone during the past fifteen years have not as yet made a public appeal for funds with which to enlarge the scope of our work. The Lying-In Hospital, the Massachusetts General Hospital, the Women's Free Hospital, the Huntington Hospital have all in recent years engaged in such campaigns; the Boston City Hospital which alone can draw upon the city purse is engaged in a program of expansion; and just now the Children's Hospital is launched on an active campaign for funds. Being the youngest of these hospitals, our turn properly should be the last, but certain developments in the School curriculum are forcing us to the issue. A small boy was once asked why he was weeping and he said, 'My dog is dead.' 'Don't cry,' said the sympathetic grown-up, 'I lost my grandmother last week and I didn't cry.' 'Yes,' wailed the boy, 'but you didn't raise your grandmother from a puppy.' Now the difference between ourselves and those responsible for these other older hospitals is just this—that we have 'raised' the Brigham and taught it all its tricks, though it has not as yet learned to sit up and beg."

Up to 1937 no concerted effort to obtain increased endowment has ever been made by the Trustees of the P. B. B. H. The Trustees are the group in hospital or-

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ganization responsible for finances. The insistence, oft repeated, of myself, of Dr. Cushing and of Dr. Cutler of the need of the Hospital for more money to develop properly the professional work until now has failed to stimulate any effort by them to that end. The present financial situation of the P. B. B. H. would indicate that it would have been better, had they followed our insistent suggestions in the years from 1913 to 1929 and especially in the lush period 1923 to 1929. At last in 1937 there are indications of a real interest in an effort to better P. B. B. H. finances.

Space enough in this report already has been given to the past. In next year's annual report, which will be the last to be written by the present Physician-in-Chief, some space will be devoted to an account of the scientific work of the P. B. B. H. medical service since its beginning, the happenings of 1938 will be depicted, and it is hoped that the next Physician-in-Chief will have been selected and can be welcomed. For the present let us turn now to some of the actual happenings of 1937.

Resignation of Miss Hall. On July 1 Miss Hall ended by resignation her service as Superintendent of Nurses and Principal of the School of Nursing of the P. B. B. H. Miss Hall's service began with organization of the Hospital. She determined the character of the Training School of Nursing and guided it in its progressive development. She was responsible for the nurses and their work, its quality and its tone. Those of us responsible for the medical and surgical care of our patients always have been proud of our nurses; their work has been well done in a way both scientifically skillful and spiritually friendly and helpful to the patients. We like to think that in all of this our nurses have mirrored Miss Hall's ideals and guidance. We gladly pay tribute to Miss Hall;

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we have had much pleasure in our associations with her; we see her go, regretful that the time had come when Miss Hall felt she should withdraw into an *emeritus*, or should it be *emerita*, relationship to the P. B. B. H. Miss Hall's resignation leaves me as the only one still in active service that came on duty as a department head when the Hospital began.

Appointment of Miss Beal. Miss Hall has been succeeded by Miss Lucy H. Beal, one of our own graduates, then head nurse on one of our medical wards and from 1922-26 medical supervisor here. Leaving the Peter Bent Brigham Hospital her experience and training was broad and varied; finally she became the head of nursing at the Syracuse Memorial Hospital in Syracuse, New York. We are fortunate to have Miss Beal back with us in charge of our department of nursing. The medical service feels pride in the fact that so much of her early training here was so closely interwoven with medicine; having known her thus well in those early years, we feel doubly sure that she will be a great success as our second Superintendent of Nurses and Principal of the School of Nursing.

Physician-in-Chief, pro tempore. In January Dr. Oliver Hazard Perry Pepper, Professor of Medicine in the University of Pennsylvania School of Medicine, came to serve with us as Physician-in-Chief, *pro tempore*. With singular charm of personality, well versed in the science and art of medicine, he taught us wisely ways of medicine that long have given fame to Philadelphia's hospitals and medical schools. Without fear he untangled himself from the traps set by a wily house staff to catch him in an indiscretion of diagnosis or therapeutic plan. Whether enticed by the keen eye that he must have derived from his ancestor of naval fame at the

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battle of Lake Erie, Commodore Perry, or his general make-up of clinical acuity, so obviously a family trait for which William Pepper, Primus (1810-64) and Secundus (1843-98), were notable, our Physician-in-Chief, *pro tempore*, of 1937 seemed to them a challenge, and they did their best to try his soul with complex problems, not made simpler by the way of presentation, that they would have hesitated to have brought to a less keen clinician. All of us, including I am sure Dr. Pepper, enjoyed the hours spent in the wards. We found out that he was a wise clinician, a fine teacher and a delightful personality, leaving with us a greatly appreciated stimulating influence toward a better and broader concept of the practice of medicine. To another Physician-in-Chief, *pro tempore*, we gladly give thanks and express our appreciation of the honor he did us in accepting our invitation to take over thus temporarily the medical service of the Peter Bent Brigham Hospital.

Changes in Staff. During 1937 Dr. Eugene C. Eppinger, Resident Physician, 1933-36, and Dr. John G. Gibson, II, Assistant Resident Physician, 1934-35, were appointed Junior Associates in Medicine. Drs. Harold M. Marquis, James A. Kennedy, John B. Alsever, John A. Boone, Dale G. Friend and Alfred W. Harris resigned as Assistant Resident Physicians, Marquis to return to San Francisco to commence practice and Kennedy to go to Cambridge, England, to carry on investigation of problems of circulation under the direction of Sir Joseph Barcroft, Alsever to begin practice in Syracuse, New York, Boone to become Instructor in Medicine in the Medical School of the University of South Carolina at Charleston, South Carolina, Friend to become Research Fellow in Biological Chemistry and in Medicine, Harvard University, and Harris to carry on studies of renal

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problems under Dr. O'Hare at the Peter Bent Brigham Hospital. They have been succeeded by Dr. Roger W. Robinson, M.D., Northwestern University, '35, formerly Research Assistant in Medicine, Harvard University; Dr. Harald N. Johnson, M.D., University of Nebraska, '33, formerly Medical and Pathological House Officer, Peter Bent Brigham Hospital and recently Resident Pathologist, Children's Hospital, Boston; Dr. Robert B. Rutherford, M.D., Northwestern University, '36, formerly Assistant Resident Pathologist, Presbyterian Hospital, Chicago; Dr. Jesse C. Lockhart, M.D., University of Texas, '35, formerly Assistant Resident in Medicine, University of California Hospital, and Dr. Richard H. Lyons, M.D., University of Michigan, '35, formerly Medical House Officer, Peter Bent Brigham Hospital.

As Medical House Officers the following men completed their service and commenced other work. Dr. Stanley Kimball, M.D., Harvard University, '35, to enter practice at Dedham, Mass.; Dr. Arthur L. Watkins, M.D., Harvard University, '35, to become Resident in Neurology at the Massachusetts General Hospital, Boston; Dr. Joseph L. Miller, Jr., M.D., University of Chicago, '35, to begin practice in Chicago; Dr. Richard H. Lyons, M.D., University of Michigan, '35, to become Assistant Resident Physician at the Peter Bent Brigham Hospital; Dr. Charles P. Roberts, M.D., Emory University, '35, to become Resident in Cardiology at the Rhode Island Hospital, Providence, Rhode Island; Dr. Charles Brenner, M.D., Harvard University, '35, to become Junior Physician at the Psychopathic Hospital, Boston; Dr. James E. Robertson, M.D., Harvard University, '35, to become Assistant Physician at the Huntington Memorial Hospital, Boston; Dr. Arthur J. Hadler, M.D., Harvard University, '35, to continue as assist-

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ant in the Medical Out-Door Department of the Peter Bent Brigham Hospital, and Dr. Roy L. Swank, M.D. '34 and Ph.D. '35, Northwestern University, to become Research Fellow in Pathology, Harvard University.

Inadvertently there was omitted from the 1936 annual report the statement that, in addition to the Medical House Officers mentioned there, the following completed their service and commenced other work as follows: Dr. William J. Clauser, M.D., Indiana University, '32, to become Assistant Physician at the George F. Baker Clinic, New England Deaconess Hospital, Boston; Dr. Charles B. Kimmel, M.D. '32 and M.S. '34, Northwestern University, to become Junior Assistant Resident in Roentgenology at the Peter Bent Brigham Hospital, and Dale G. Friend, M.D., Harvard University, '35, to become Assistant Resident Physician, Peter Bent Brigham Hospital.

Publications for 1937. During 1937 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.

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— Bloody Pleural Fluid, An Unusual Complication of Cir-
rhosis of the Liver. *Ann. Int. Med.*, 10, 1621, 1937.
— Some Changing Views About Oedema and Diuresis. *Can.*
Med. Assoc. Jour., 37, 29, 1937.
— A Clinical Lecture as of Twenty-Five Years Ago. *Am. J.*
Med. Sci., 194, 749, 1937.
BURWELL, C. SIDNEY: The Management of Asymptomatic
Heart Disease. *Internat. Clin.*, 2, 249, 1937.

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- A Comparison of the Pressures in Arm Veins and Femoral Veins with Special References to Changes During Pregnancy. *Trans. Assoc. Am. Phys.*, 52, 289, 1937.
- The Treatment of Heart Disease. *Diseases of the Heart (Revised Edition)*, Am. Heart Assoc., Inc., 5, 33, 1937.
- FULTON, MARSHALL N.: The Use of Mercury as a Diuretic.* *Trans. Coll. Phys. Phila.*, 4, 25, 1936.
- FULTON, MARSHALL N. and WHITE, BENJAMIN V., JR.: A Rare Pupillary Defect. Inherited by Identical Twins. *J. Heredity*, 28, 177, 1937.
- MONROE, ROBERT T., AKERSON, IRVING B., and DIAS, JOHN F., JR.: The Incidence of Coronary Artery Sclerosis in the Aged. *N. Eng. J. Med.*, 217, 622, 1937.
- MONROE, ROBERT T. and EMERY, EDWARD S., JR.: Causes of Death in Patients with Peptic Ulcer. *N. Eng. J. Med.*, 217, 729, 1937.
- AUB, J. C., TIBBETTS, D. M. and McLEAN, R.: The Influence of Parathyroid Hormone, Urea, Sodium Chloride, Fat and of Intestinal Activity Upon Calcium Balance. *J. Nutrition*, 13, 635, 1937.
- AUB, JOSEPH C. and EVANS, ROBLEY D.: Recent Progress in the Study of Radium Poisoning. *Occas. Pub. Am. Assoc. Advance. Sci.*, 4, 227, 1937.
- AUB, JOSEPH C. and TIBBETTS, DOROTHY M.: Magnesium Metabolism in Health and Disease. I. The Magnesium and Calcium Excretion of Normal Individuals, also The Effects of Magnesium, Chloride, and Phosphate Ions. *J. Clin. Invest.*, 16, 491, 1937.
- Magnesium Metabolism in Health and Disease. II. The Effect of the Parathyroid Hormone. *J. Clin. Invest.*, 16, 503, 1937.
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- BLOTNER, HARRY: Some Clinical Effects of Protamine Insulin. *Tufts College Med. J.*, 3, 10, 1937.
- Effect of Ammiotin and Antuitrin—S in Diabetes Insipidus. *N. Eng. J. Med.*, 217, 592, 1937.
- BOONE, JOHN A.: Gum Acacia in the Treatment of Nephritic Edema. *N. Eng. J. Med.*, 216, 289, 1937.

* Omitted in last year's report.

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- BRENNER, CHARLES: Note on the Action of Dichloro-Difluoro-Methane on the Nervous System of the Cat. *J. Pharm. & Exper. Therap.*, 59, 176, 1937.
- Endemic Amebic Dysentery in New England. *N. Eng. J. Med.*, 217, 859, 1937.
- CONTRATTO, A. W. and LEVINE, SAMUEL A.: Aortic Stenosis with Special Reference to Angina Pectoris and Syncope. *Ann. Int. Med.*, 10, 1636, 1937.
- EMERY, EDWARD S., JR.: The Use of Absorbents in Gastro-Intestinal Diseases. *J. A. M. A.*, 108, 202, 1937.
- EMERY, EDWARD S., JR. and ELDER, MARGARET: Food Habits of the Patient with Peptic Ulcer. *Am. J. Digest. Dis. & Nut.*, 4, 493, 1937.
- EVANS, WILLIAM A., JR. and GIBSON, JOHN G., 2ND: The Blood Volume in Diuresis. A Study Employing the Colloidal Blue Dye T-1824 in Dogs Rendered Edematous by Plasmapheresis. *Am. J. Phys.*, 118, 251, 1937.
- FLEMING, ROBERT: Chronic Alcoholism in Europe. *N. Eng. J. Med.*, 216, 279, 1937.
- Treatment of Chronic Alcoholism. *N. Eng. J. Med.*, 217, 779, 1937.
- FLEMING, ROBERT and TILLOTSON, K. M.: Personality and Sociological Factors in the Prognosis and Treatment of Chronic Alcoholism. *N. Eng. J. Med.*, 217, 611, 1937.
- FLYNN, JOHN M.: Somatic Phenomena in Psychoneuroses. *Am. J. Med. Sci.*, 193, 548, 1937.
- FRIEDGOOD, HARRY B.: Cortico-Adrenal and Neural Effects on Gonadotropic Activity of the Pituitary. *Science*, 86, 84, 1937.
- FRIEDGOOD, H. B. and McLEAN, R.: The Effect of an Anterior Hypophyseal Extract Upon the Serum Calcium and Phosphorus. *Am. J. Phys.*, 118, 588, 1937.
- FRIEDGOOD, H. B. and FOSTER, M.A.: The Effect of Adrenalectomy Upon Experimental Ovulation and Luteinization in Anestrous Cats. *Am. J. Phys.*, 119, 312, 1937.
- FRIEDGOOD, H. B., DAVIS, H. and REBOUL, J.: Electrical Detection of Ovulation. *Am. J. Phys.*, 119, 387, 1937.

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- GIBSON, JOHN G., 2ND and EVANS, WILLIAM A., JR.: Clinical Studies of the Blood Volume. I. Clinical Application of a Method Employing the Azo Dye "Evans Blue" and the Spectrophotometer. *J. Clin. Invest.*, *16*, 301, 1937.
- Clinical Studies of the Blood Volume. II. The Relation of Plasma and Total Blood Volume to Venous Pressure, Blood Velocity Rate, Physical Measurements, Age and Sex in Ninety Normal Humans. *J. Clin. Invest.*, *16*, 317, 1937.
- Clinical Studies of the Blood Volume. III. Changes in Blood Volume, Venous Pressure and Blood Velocity Rate in Chronic Congestive Heart Failure. *J. Clin. Invest.*, *16*, 851, 1937.
- GIBSON, JOHN G., 2ND and BRANCH, CHARLES D.: Blood Volume Changes During Surgical Procedures. *Surg., Gyn. & Obstet.*, *65*, 741, 1937.
- GIBSON, JOHN G., 2ND, KOPP, I. and EVANS, WILLIAM A., JR.: Blood Volume Changes During Therapeutic Fever. Abstracts and Discussions of Papers Presented at First International Conference on Fever Therapy. Paul B. Hoeber Company, N. Y., page 30, 1937.
- GIBSON, JOHN G., 2ND, PIJOAN, M. and KOPP, I.: Acid-Base Balance During Therapeutic Fever. Abstracts and Discussions of Papers Presented at First International Conference on Fever Therapy. Paul B. Hoeber Company, N. Y., page 33, 1937.
- GRABFIELD, G. P.: A Pharmacologic Study of the Mechanism of Gout. *Ann. Int. Med.*, *11*, 651, 1937.
- GRABFIELD, G. P. and PRESCOTT, B.: Nitrogen and Sulfur Metabolism in Bright's Disease. VIII. Effect of Ingestion of Urea on Nitrogen Excretion and Sulfur Partition in Nephrosis, Glomerulonephritis and Cirrhosis of Liver. *Arch. Int. Med.*, *59*, 823, 1937.
- GRABFIELD, G. P., PRESCOTT, B. and SWAN, W. K.: Studies on the Denervated Kidney. III. The Effect of Ergotamine and Atropine on the Uricosuric Effect of Cinchophen. *J. Pharm. & Exper. Therap.*, *61*, 293, 1937.
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- pared with Other Mental Diseases. *Med. Bull. Vet. Admin.*, 14, 20, 1937.
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- LEVINE, SAMUEL A.: Heart Disease and Its Complications. *Med. Leaves*, p. 97, 1937.
- Some Pitfalls in the Diagnosis of Heart Disease. *Med. Ann. Dist. Columbia*, 6, 1, 1937.
- Some Notes on the Teaching of Medicine. *Trans. Assoc. Am. Phys.*, 52, 272, 1937.
- Special Fields in Medicine—Cardiology as a Specialty. *Phi Delta Epsilon News*, p. 138, October, 1937.
- LEVINE, SAMUEL A., GLENDY, R. EARLE and WHITE, PAUL D.: Coronary Disease in Youth. Comparison of 100 Patients Under 40 With 300 Persons Past 80. *J. A. M. A.*, 109, 1175, 1937.
- LYONS, RICHARD H. and TRAPP, CARL E.: Dream Studies in Hallucinated Patients. Preliminary Study. *Psych. Quart.*, 11, 253, 1937.
- MURPHY, WILLIAM P.: Pernicious Anemia—Diagnosis. *Med. Clin. N. A.*, 21, 333, 1937.
- Scientific Research in the Solution of Medical Problems. *Indus. & Engineer. Chem.*, 15, 185, 1937.
- ROBERTS, C. P. and HADLER, A. J.: Pylephlebitis Due to Perforating Duodenal Ulcer. *J. A. M. A.*, 109, 1629, 1937.
- SALTER, WILLIAM T.: The Chemistry of Proteins in Relation to Disease. *Oxford Medicine*, Oxford University Press, New York, 1, 243, 1937.
- SALTER, W. T. and LERMAN, J.: The Genesis of Thyroid Protein. *N. Eng. J. Med.*, 216, 371, 1937.
- SALTER, WILLIAM T., LITTER, JULIUS and MARBLE, BEULA B.: The Relation Between Nuclear Division and the Ammonia Metabolism of Growing Tissues. *Am. J. Cancer*, 31, 268, 1937.
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- SCHNITKER, MAURICE A. and BAILEY, ORVILLE T.: Metastatic Tumor of the Heart. A Case Diagnosed During Life. *J. A. M. A.*, 108, 1787, 1937.

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- THOMPSON, WILLIAM P. and LEVINE, SAMUEL A.: Note on the Duration of Symptoms and Age at Death in Chronic Rheumatic Valvular Disease, Especially in Tricuspid Stenosis. *Am. J. Med. Sci.*, 193, 4, 1937.
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- TOWNSEND, S. R. and PIJOAN, M.: Action of Urea, Indican, and Phenol on Red Cell Hemolysis. *Proc. Soc. for Exp. Biol. and Med.*, 37, 236, 1937.
- WALCOTT, CHARLES F.: Chickenpox Encephalitis. Report of a Case. *N. Eng. J. Med.*, 217, 136, 1937.
- WARREN, HARRY A. and INGALLS, THEODORE H.: Asymptomatic Scurvy. Its Relation to Wound Healing and Its Incidence in Patients with Peptic Ulcer. *N. Eng. J. Med.*, 217, 433, 1937.
- WARREN, HARRY A., FRIEND, DALE G. and EMERY, EDWARD S., JR.: The Treatment of Peptic Ulcer by the Diet of Goldberger and Wheeler. *Am. J. Digest. Dis. & Nut.*, 4, 495, 1937.

Again I end my annual report, that of 1937, with words of praise and thanks for the efficient work and pleasant cooperation of the other services and departments of the Peter Bent Brigham Hospital and of the volunteer workers who have come into our midst, all aiding us in rendering a more efficient and a more friendly service to our patients. Appointed, as I actually was, in 1910 this report brings to a close twenty-seven years of service for the Peter Bent Brigham Hospital, years that have passed unbelievably quickly because of happy associations with the many individuals, who have come and gone or stayed on as members of the large family of workers, who have been needed to care for the 52,161 patients admitted to the medical wards of the Hospital and the 1,474,882 visits to the Out-Door Department, since the Peter Bent Brigham Hospital opened to receive patients.

HENRY A. CHRISTIAN,
Physician-in-Chief.

DECEMBER 31, 1937.

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Summary of Medical Statistics

JANUARY 1, 1937 TO JANUARY 1, 1938

Total number of medical admissions in 1937 ...	2,037	
Total number of medical cases remaining in the wards, January 1, 1937	87	
	—	2,124
Total number of medical readmissions dis- charged in 1937	553	
Total number of medical new cases discharged in 1937	1,488	
	—	2,041
Total number of medical cases remaining in the wards, January 1, 1938	83	
	—	2,124
Total number of deaths		233

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. Deceased.*

DR. LEWELLYS F. BARKER

M.B., Univ. of Toronto, 1890; M.D. (Hon.) Univ. of Toronto, 1905; Queen's, 1908; LL.D., McGill, 1911; Emeritus Professor of Medicine, Johns Hopkins University and Visiting Physician, Johns Hopkins Hospital; *Physician-in-Chief pro tem., P. B. B. H., April 21 to April 27, 1931.*

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. Died September 20, 1932.*

DR. FREDERICK A. COLLIER

B.S., 1906, M.S., 1908, Ph.G., 1909, South Dakota State Coll.; M.D., Harv., 1912; Assoc. Prof. Surg., Univ. of Mich.; Surgeon to University Hospitals, Ann Arbor, Mich.; *Surgeon-in-Chief pro tem., P. B. B. H., October 19-November 3, 1934.*

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.*

DR. CHARLES A. ELLIOTT

B.S., Univ. of Nebraska, 1895; M.D., Northwestern, 1898; Professor of Medicine, *ibid.*; Attending Physician, Passavant Memorial Hospital, Chicago; *Physician-in-Chief pro tem., P. B. B. H., April 16 to April 22, 1933.*

PROF. OTFRID FOERSTER

Professor of Neurology, 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.*

VISITING PHYSICIANS AND SURGEONS

- DR. H. KNUT GIERTZ
Surgeon-in-Chief, Sabbatsburg Sjukhus, Stockholm, Sweden; Surgeon to the Royal Family of Sweden; *Surgeon-in-Chief pro tem.*, *P. B. B. H.*, May 16 to May 31, 1936.
- DR. ALVAH H. GORDON
M.D., C.M., McGill University Faculty of Medicine, Montreal, 1899; F.R.C.P., Canada; Associate Prof. of Medicine, McGill; Physician, Montreal General Hosp.; *Physician-in-Chief pro tem.*, *P. B. B. H.*, April 14 to April 20, 1935.
- 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 to May 3, 1925.
- DR. JAMES B. HERRICK
A.B., Univ. of Mich., 1882; Hon. A.M., *ibid.*, 1907; M.D., Rush Medical College, 1888; Professor of Medicine, *ibid.*, 1900; Attending Physician, Presbyterian Hospital, Chicago, Illinois, 1895; *Physician-in-Chief pro tem.*, *P. B. B. H.*, February 15 to February 21, 1924.
- DR. GEORGE J. HEUER
M.D., Johns Hopkins Univ., 1907; successively Associate Professor of Surgery, Johns Hopkins Univ., Professor of Surgery, Univ. of Cincinnati, and Professor of Surgery, Cornell Univ. Medical School, New York; *Surgeon-in-Chief pro tem.*, *P. B. B. H.*, July 12 to July 16, 1932.
- 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 January 2 to January 8, 1916. Died November 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.*, February 3 to February 9, 1924. Died June 15, 1927.
- LORD HORDER
M.D., Univ. of London; Honorary D.C.L. (Dunhelm); F.R.C.P.; K.C.V.O.; Knight Grand Order of St. John of Jerusalem; First Baron of Ashford in the County of Southampton; Physician-in-Ordinary to the King; Senior Physician Emeritus to St. Bartholomew's Hosp.; Freeman of Shaftsbury; *Physician-in-Chief pro tem.*, *P. B. B. H.*, May 1 and 2, 1936.

PETER BENT BRIGHAM HOSPITAL

- DR. CAMPBELL P. HOWARD
M.D., McGill, 1901; Professor of Medicine, McGill University, Montreal; Physician to Montreal General Hospital, Montreal; *Physician-in-Chief pro tem.*, P. B. B. H., November 16 to November 21, 1931. Died, June 3, 1936.
- 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., January 24 to January 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., January 18 to January 25, 1919. Died, September 14, 1937.
- PROF. RENÉ LERICHE
Professor of Surgery, University of Strasbourg; Professor of Surgery, University of Lyons, 1932; *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
M.D., University College, London, England, 1906; C.B.E.; F.R.C.P.; F.R.S.; Physician, University College, London, England; Physician to Staff of Med. Research Comm.; *Physician-in-Chief pro tem.*, P. B. B. H., October 26 to November 2, 1914.
- DR. WARFIELD T. LONGCOPE
A.B., Johns Hopkins Univ., 1897; M.D., *ibid.*, 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., January 13 to January 20, 1917.
- DR. WILLIAM DE B. MACNIDER
M.D., Univ. of N. C., 1903; Professor of Pharmacology, Univ. of N. C., 1905; *Physician-in-Chief pro tem.*, P. B. B. H., April 13 to April 17, 1925.
- DR. THOMAS McCRAE
A.B., Univ. of Toronto, 1891; M.B.; M.D., *ibid.*, 1903; F.R.C.P., England; Associate Professor of Medicine, Johns Hopkins Univ., 1906-12; Professor of Medicine, Jefferson Med. Coll., 1912; Physi-

VISITING PHYSICIANS AND SURGEONS

- cian to Jefferson and Penn. Hosps.; *Physician-in-Chief pro tem.*, *P. B. B. H.*, March 13 to March 19, 1921. Died, June 30, 1935.
- 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 NYSTROM
Professor of Surgery, University of Upsala, Sweden; *Surgeon-in-Chief pro tem.*, *P. B. B. H.*, May 23 to May 26, 1930.
- DR. JAMES E. PAULLIN
M.D., Johns Hopkins, 1905; LL.D., Wesley Univ., 1928; Res. Pathol., Rhode Island Hosp., 1905-06; House Officer, Piedmont Hosp., Atlanta, Ga., 1906-07; Prof. of Clinical Medicine, Emory Univ.; Chief, Medical Service, Emory Division, Grady Hospital, Atlanta, Ga.; *Physician-in-Chief pro tem.*, *P. B. B. H.*, February 23 to February 29, 1936.
- DR. O. H. PERRY PEPPER
B.S., Univ. of Pa., 1905; M.D., *ibid.*, 1908; Prof. of Medicine, University of Pennsylvania School of Medicine; *Physician-in-chief pro tem.*, *P. B. B. H.*, January 17 to January 23, 1937.
- 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.
- PROF. VITTORIO PUTTI
Professor of Orthopedics, University of Bologna; Director, Instituto Ortopedico Rizzoli; *Surgeon-in-Chief pro tem.*, *P. B. B. H.*, May 30 to June 6, 1932.
- DR. DAVID RIESMAN
M.D., Univ. of Pa., 1892; Prof. Clin. Med., *ibid.*; Physician, Philadelphia General Hospital and University Hospital, Pa.; *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. Died, January 2, 1938.
- SIR HUMPHREY 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.

PETER BENT BRIGHAM HOSPITAL

DR. CLARENCE L. STARR

M.B., Univ. of Toronto; M.D., Univ. of New York; LL.D.; Professor of Surgery, Univ. of Toronto; Surgeon-in-Chief, Toronto General Hosp.; *Surgeon-in-Chief pro tem., P. B. B. H., March 7 to March 16, 1926. Died December 25, 1928.*

DR. ALFRED STENGEL

M.D., Univ. of Pa., 1889; Sc.D. Honorary, Univ. of Pittsburgh; LL.D., Lafayette College and Univ. of Pa.; Prof. of Medicine, Univ. of Pennsylvania School of Medicine; Vice-President, University of Pennsylvania; Physician, University Hospital, Philadelphia, Pa.; *Physician-in-Chief pro tem., P. B. B. H., April 22 to April 28, 1934.*

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., November 14 to November 21, 1913. Died December 10, 1932.*

SIR CUTHBERT WALLACE

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

DR. ALLEN O. WHIPPLE

B.S., M.D., Sc.D., Columbia; Prof. of Surg., Columbia Univ.; Director, Surgical Service, Presbyterian Hosp., New York; *Surgeon-in-Chief pro tem., P. B. B. H., March 22 to March 29, 1937.*

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., December 16 to December 23, 1921.*

Traveling Fellows in Surgery

LEO M. DAVIDOFF	1926
HARLAN F. NEWTON	1927
FRANC D. INGRAHAM	1928
WILLIAM DEG. MAHONEY	1932

George Gorham Peters Traveling Fellows

ARTHUR J. McLEAN	1929
ERIC OLDBERG	1930
FRANK N. GLENN	1931
KENNETH W. THOMPSON	1933
S. MILTON DUPERTUIS	1934
THOMAS B. QUIGLEY	1935
ROBERT E. GROSS	1936
JOHN E. DUNPHY	1938

Harvey Cushing Fellows

KENNETH WADE THOMPSON	Mar. 1	-July 1, 1933
MAX T. SCHNITKER	Oct. 13, 1933	-Mar. 1, 1934
SAMUEL R. SNODGRASS	Mar. 1, 1934	-Aug. 1, 1934
CARL W. WALTER	July 1, 1934	-July 1, 1935
J. HARTWELL HARRISON	Apr. 1	-June 1, 1935
THOMAS B. QUIGLEY	July 1, 1935	-July 1, 1936
PHILIP SHAMBAUGH	Nov. 1, 1935	-July 1, 1936
MICHEL PIJOAN	Aug. 1, 1936	-Aug. 1, 1937
MAX T. SCHNITKER	Sept. 1, 1936	-Mar. 1, 1938
JOHN L. KEELEY	July 1, 1937	-July 1, 1938

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

ALSEVER, JOHN BELLOWS

A.B., Syracuse Univ., 1930; M.D., Harv., 1934; Asst. in Pathol., Syracuse Med. Sch., 1934-35; *Med. H. O., P. B. B. H., February 15, 1935-July 1, 1936; Asst. Res. Phys., ibid., July 1, 1936-July 1, 1937*; in practice, Syracuse, N. Y.

AUB, JOSEPH C.

A.B., Harv., 1911; M.D., *ibid.*, 1916; Med. H. O., M. G. H., 1914-15; Asst. Phys., Russell Sage Inst. of Pathol., N. Y., 1915-16; Med. Res., M. G. H., 1916-17; U. S. Army, Base Hosp. No. 6, France, 1917-19; Instr. in Physiol., 1919, Asst. Prof. of Physiol., 1920-24, Asst. Prof. of Med., 1924-28, Harv.; Asst. in Med., 1921-22, Assoc. in Med., 1922-25, Assoc. Phys., 1925-28, M. G. H.; Physician-in-Chief, Huntington Mem. Hosp.; Assoc. Prof. of Med., Harv.; *Sr. Assoc. Phys., P. B. B. H.*; Medical Consultant, M. G. H., Palmer Memorial Hosp., South County Hosp., Wakefield, R. I.

AYER, GUY DARRELL

B.S., Virginia Military Inst., 1929; M.D., Emory, 1933; Rotating Intern, Grady Hosp., Atlanta, 1933-34; *Pathol. H. O., P. B. B. H., November 1, 1934-March 1, 1936*; Res. Pathol., Children's Hosp., Boston, March-July, 1936; Res. Pathol., B. L. I., 1936-37; *Res. Pathol., P. B. B. H.*

BADAL, DANIEL WALTER

A.B., Adelbert College of Western Reserve Univ., 1934; M.D., Western Reserve Univ., 1937; *Med. H. O., P. B. B. H.*

BAILEY, ORVILLE T.

A.B., Syracuse, 1928; M.D., Albany Medical Coll., 1932; Interne, Albany Hosp., 1932-33; *Pathol. H. O., P. B. B. H., 1933-34*; Pathol. Res., Children's Hosp., 1934-35; Instr. in Pathol., Harv.; *Res. Pathol., P. B. B. H., 1935-37*; Junior Fellow (Society of Fellows), Harv.

BELL, JOHN FRYE

A.B., Yale, 1931; M.D., Harv., 1935; *Surg. H. O., P. B. B. H., February 15, 1936-October 1, 1937*; Arthur Tracy Cabot Fellow, Harv.; *Jr. Assoc. in Surg., P. B. B. H.*

BLODGETT, JAMES BISHOP

A.B., Oberlin, 1932; M.D., Harv., 1936; *Surg. H. O., P. B. B. H., October 15, 1936-March 1, 1938*; *Asst. Res. Surg., ibid.*

REGISTER OF PRESENT MEMBERS OF THE STAFF

BLOTNER, HARRY

A.M., Harv., 1931; M.D., Tufts, 1924; Gen. Interne, Eastern Maine Gen. Hosp., 1924-25; *Asst. Res. Phys., P. B. B. H.*, 1925-26; *Jr. Assoc. in Med., ibid.*, December 1, 1926-September 1, 1927, and January 24, 1929-December 31, 1933; Instr. in Med., Harv.; *Assoc. in Med., P. B. B. H.*

BOONE, JOHN A.

A.B., Univ. of Texas, 1927; A.M., *ibid.*, 1929; M.D., Harv., 1933; H. O., M. G. H., 1933-34; H. O., House of Good Samaritan, 1934; *Med. H. O., P. B. B. H.*, October 15, 1934-March 1, 1936; Research Fellow in Med., Harv., 1936; *Asst. Res. Phys., P. B. B. H.*, September 1, 1936-September 1, 1937; Instr. in Med., Medical Coll. of S. C., Charleston.

BOTSFORD, THOMAS W.

A.B., Univ. of Mo., 1931; M.D., Harv., 1935; Surg. H. O., C. H., October 1, 1935-July 1, 1937; *Surg. H. O., P. B. B. H.*

BRANCH, CHARLES D.

A.B., Univ. Mich., 1927; M.D., *ibid.*, 1931; Interne, Lakeside Hosp., 1932-33; *Asst. Res. Surg., P. B. B. H.*, March 1, 1933-July 1, 1934; Arthur Tracy Cabot Fellow, Harv., 1934-35; *Jr. Assoc. in Surg.*, July 1, 1934-July 1, 1935, *Res. Surg.*, July 1, 1935-December 1, 1936, *P. B. B. H.*; Instr. in Surg., Harv., 1935-37; *Jr. Assoc. in Surg.*, *P. B. B. H.*, December 1, 1936-July 1, 1937; in practice, Peoria, Ill.

BRENNER, CHARLES

A.B., Harv., 1931; M.D., *ibid.*, 1935; *Med. H. O., P. B. B. H.*, October 15, 1935-July 1, 1937; *Jr. Phys.*, Boston Psychopathic Hosp.

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, Md., 1919-20; *Surg. H. O., P. B. B. H.*, February 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; *Jr. Assoc. Orth. Surg., P. B. B. H.*; in practice, Boston.

BROOKS, FREMONT R.

A.B., Syracuse, 1932; D.D.S., Univ. of Mich., 1936; *Dental H. O., P. B. B. H.*, July 15, 1936-July 15, 1937; in practice, Baldwinsville, N. Y.

BROWN, FRANCIS JACK

B.A., Williams, 1931; M.D., Northwestern, 1936; Interne, St. Luke's Hosp., Chicago, 1935-36; *Med. H. O., P. B. B. H.*

BURGER, FRANKLIN D.

M.D., Univ. of Mich., 1936; *Surg. H. O., P. B. B. H.*, June 15, 1936-December 1, 1937.

PETER BENT BRIGHAM HOSPITAL

BURWELL, CHARLES SIDNEY

A.B., Allegheny Coll., 1914; M.D., Harv., 1919; LL.D. (Hon.) Allegheny Coll., 1936; Med. House Pupil, M. G. H., 1919-20; American Red Cross Comm. to West Russia, 1920; House Phys., M. G. H., 1920-21; Teaching Fellow in Med., Harv., 1921; Instr. in Med., Johns Hopkins Med. Sch., 1921-22; Res. Phys., J. H. H., 1921-22; Assoc. in Med., Johns Hopkins Med. Sch., 1922-24; Asst. Visit. Phys., J. H. H., 1922-24; Assoc. Prof. of Med., Vanderbilt Univ. Med. Sch., 1925-28; Visiting Phys., Vanderbilt Univ. Hosp., 1925-28; Prof. of Med., Vanderbilt Univ. Med. Sch., 1928-35; Phys. in Chief, Vanderbilt Univ. Hosp., 1928-35; Dean of the Faculty of Med., and Research Prof. Clin. Med., Harv.; *Physician, P. B. B. H.*

CAMPBELL, JR., CHARLES M.

A.B., Harv., 1933; M.D., *ibid.*, 1937; *Pathol. H. O., P. B. B. H.*

CAMPBELL, JAMES B.

A.B., Harv., 1931; M.D., *ibid.*, 1935; *Surg. H. O., P. B. B. H.*

CANNON, WALTER BRADFORD

A.B., Harv., 1896; A.M., *ibid.*, 1897; M.D., *ibid.*, 1900; S.D., Yale, 1923, Harv., 1937; LL.D., Wittenberg, 1927, Boston University, 1929; Doctor Liege, 1930; Doctor, Strasbourg, 1930; Doctor, Paris, 1931; 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.*, 1906—; 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; Nat. Acad. of Med., Buenos Aires, 1936; Hon. Mem. Sociedad de Biología, Buenos Aires, 1922; Assoc. Mem., Société Belge de Biologie and Société de Psychol., Paris, 1930; Nat. Acad. of Med., Spain, 1934; Foreign Honorary Fellow, Royal Society, Edinburgh, 1930; Exchange Professor for France, 1929-30; Baly Medalist, Royal College of Physicians, London, 1931; Member, Kaiserliche Deutsche Akademie der Naturforscher, Halle, 1932; Honorary Member, Academia de Medicina, Barcelona, 1932; Member, Board of Scientific Directors, Rockefeller Institute of Medical Research, 1936; Foreign Hon. Member, Académie Royale de Médecine de Belgique, 1937; *Consult. Physiol., P. B. B. H.*

CHEEVER, DAVID

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

CHRISTIAN, HENRY ASBURY

A.B., and A.M., Randolph-Macon, 1895; Grad. Stud., *ibid.*, 1895-96; LL.D., *ibid.*, 1923; M.D., Johns Hopkins, 1900; A.M., Harv., 1903;

REGISTER OF PRESENT MEMBERS OF THE STAFF

Sc.D., Jefferson, 1928; LL.D., Western Reserve, 1931; F. R. C. P. (Hon.), Can., 1936; 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. of Theory and Practice of Physic, *ibid.*, 1907-08; Phys.-in-Chief, Carney Hosp., Boston, 1907-12; Dean, Faculty of Med. and Med. Sch., Harv., 1908-12; Fellow, Am. Acad., 1913, Corr. mem., Wiener Gesellschaft. f. innere Medizin, etc., 1923; Corr. member, Medico-Chirurgical Soc., Edinburgh, 1937; formerly Major, M. R. C., U. S. Army; Resident Chairman, Div. of Med. Sciences, Nat'l Research Council, Washington, D. C., 1919-20; Hersey Prof., Theory and Practice of Physic, Harv., since 1908; *Physician-in-Chief*, P. B. B. H.

CLARKE, A. RUSCOE

M.R.C.S., L.R.C.P., 1931; M.B., B.S., London Univ., 1931; F.R.C.S., 1933; Interne, Lect. in Anat. and Surg. Registrar, Guy's Hosp., London, 1933-36; *Fellow in Urol.*, P. B. B. H., July 1, 1937-January 24, 1938.

CLINE, SAMUEL

M.D., Harv., 1917; Clin. Asst. in Otolaryngology, Mass. Eye and Ear Infirm.; Asst. Laryngologist, Beth Israel Hosp.; Laryngologist, Sanatorium Div., B. C. H.; *Jr. Assoc. in Otolaryngology*, P. B. B. H.

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., January 1, 1924-January 1, 1925; *Jr. Assoc. in Urol.*, *ibid.*, January 22, 1925-October 1, 1926; *Act. Assoc. in Surg.*, *ibid.*, July-September, 1927; Assoc. Urol., M. G. H.; Asst. in G. U. Surg., Harv.; Asst. Surg., Palmer Mem. Hosp.; Urologist, Huntington Mem. Hosp.; *Jr. Assoc.*, *Urol. Surg.*, P. B. B. H.; in practice, Boston.

CONTRATTO, ANDREW W.

A.B., Univ. Utah, 1928; M.D., Univ. Pa., 1932; Med. Interne, Univ. of Pa., 1932-34; *Asst. Res. Phys.*, P. B. B. H., August 1, 1934-August 1, 1936; Asst. in Med., Harv.; Asst. Adviser in Med., Dept. Hygiene, *ibid.*; *Jr. Assoc. in Med.*, P. B. B. H.; in practice, Boston, Mass.

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,

PETER BENT BRIGHAM HOSPITAL

1927; Litt.D., Jefferson, 1926, Dartmouth, 1929; Dr. (*Hon. caus.*), Strasbourg, 1929, Brussels, 1930, Bern, 1931, Budapest, 1931, Amsterdam, 1932, Paris, 1933, Am. Acad. of Arts and Sciences, 1914, Nat. Acad. Sciences, 1917, Am. Phil. Soc., 1930; Director, U. S. Army Base Hosp. No. 5, 1916-19; Col., M. C., U. S. A.; Companion of the Bath; D.S.M.; Offic. Legion d'Honneur; Stud., St. Bartholomew's, 1922; Mickle Fellow, Univ. 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., 1912-32; *Surgeon-in-Chief, P. B. B. H., 1912-32; Surg.-in-Chief Emeritus, ibid.*; Sterling Prof. of Neurol., *emeritus*, Yale.

CUTLER, ELLIOTT CARR

A.B., Harv., 1909; M.D., *ibid.*, 1913; *Surg. H. O., P. B. B. H., November 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; Lt. Col., M.C., U. S. Army; D.S.M., 1917-19; Instr. in Surg., Harv., 1921-24; *Res. Surg., P. B. B. H., August 1, 1919-September 1, 1921; Assoc. in Surg., ibid., September 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, 1924-32; Moseley Prof. of Surg., Harv.; *Surgeon-in-Chief, 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., 1915-16, Supervisor Student Health, 1917-18, Physician to Students, 1919-20, Alumni Asst. in Med., 1920-23, Director of Alumni Appointments and Physician to Students, 1923-30, Harv.; Attend. Phys., Channing Home, Boston, 1917-28; Assoc. Chief, Med. Dept., Boston Disp., 1924-28; *Assoc. in Med., P. B. B. H.*

DERICK, CLIFFORD L.

M.D., McGill, 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., New York, 1924-28; Asst. Prof. Med., Harv., 1928-35; *Physician, P. B. B. H., 1928-35*; Assoc. in Med., Harv.; *Sr. Assoc. in Med., P. B. B. H.*; in practice, Boston, Mass.

DIACK, JR., ARCHIBALD W.

A.B., Dartmouth, 1929; M.D., Univ. of Mich., 1933; *Med. H. O., P. B. B. H., February 15, 1934-July 1, 1935; Surg. H. O., ibid., November 1, 1935-March 1, 1937*; in practice, Portland Oregon.

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DUNPHY, JOHN E.

A.B., Holy Cross, 1929; M.D., Harv., 1933; *Surg. H. O., P. B. B. H., September 1, 1933-November 1, 1934, Asst. Res. Surg., 1934-36, Pathol. H. O., 1936-37, P. B. B. H.*; Instr. in Surg., Harv.; *Res. Surg., P. B. B. H., December 1, 1936-March 1, 1938*; George Gorham Peters Trav. Fellow.

EMERY, JR., EDWARD STANLEY

A.B., Harv., 1916; M.D., *ibid.*, 1920; *Med. H. O., P. B. B. H., November 1, 1920-March 1, 1922; H. O. X-ray Dept., ibid., July 1, 1922-July 1, 1923*; Stud. in Clin. of Doctor Sippy, Presbyterian Hosp., Chicago, 1923-24; Asst. in Med., Harv., 1925-29; Phys. to Boston Disp., 1925-26; Instr. in Med., Harvard; *Jr. Assoc. in Med., P. B. B. H., April 24, 1924-May 10, 1926; Assoc. in Med., ibid.*

ENGLAND, JR., ALBERT CHARLES

A.B., Harv., 1933; M.D., *ibid.*, 1937; *Med. H. O., P. B. B. H.*

EPPINGER, EUGENE CHARLES

A.B., Williams, 1926; M.D., Harv., 1930; H. O., B. C. H. (Neuro.) 1930-31; *Med. H. O., March 1, 1931-July 1, 1932, Asst. Res. Phys., 1932-33, Res. Phys., 1933-36, P. B. B. H.*; Physician, Industrial Relations Div., Procter and Gamble Co.; Instr. in Med., Cincinnati Coll. of Med., September, 1936-August, 1937; Asst. Clinician, Cincinnati General Hosp., December, 1936-June, 1937; Asst. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H.*

ERDMANN, JR., ALBERT JOHN

B.A., Yale, 1933; M.D., Harv., 1937; *Med. H. O., P. B. B. H.*

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., November 1, 1912-July 1, 1913; Asst. Res. Phys., ibid., July 1, 1913-September 1, 1915 (granted leave of absence to December 31, 1916)*; Fellow in Physiol., Harv., 1914-15; Asst. Res. Phys., Rockefeller Inst. Hosp., New York; Major, M. C., U. S. Army, 1917-19; Assoc. in Med. and Act. Res. Phys., M. G. H., 1919-20; Mayo Clinic and Mayo Foundation, 1920-22; Assoc. Prof. of Med., Harv., 1922-36; *Phys., P. B. B. H., 1922-36*; Director, Evans Memorial Hosp.; Wade Prof. of Med., Boston Univ. Sch. of Med.; Lecturer on the History of Med., Harv.; *Consult. Phys., P. B. B. H.*

FLAKE, CARLISLE G.

M.D., Univ. Va., 1931; Res. H. O., St. Elizabeth's Hosp., Richmond, 1931-32; Fellow in Otolaryngology, and Disp. Asst. in Laryngology, 1932-33, Res. H. O. in Otolaryngology, 1933-34, Asst. Res. in Otolaryngology, 1934-35, Res. in Otolaryngology and Disp. Laryngologist, 1935-36, Johns Hopkins Hosp.; Res., Nose, Ear and Throat Service, C. H., 1936-37; *Jr. Assoc. in Otolaryngology, P. B. B. H.*

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FLEMING, ROBERT

A.B., Trinity, 1924; A.M., Harv., 1926; M.D., *ibid.*, 1930; *Med. H. O., P. B. B. H., November 1, 1930-March 1, 1932*; Senior Phys., Boston Psychopathic Hosp., 1932-35; Rockefeller Fellow, Montreal Neurol. Inst. and National Hosp., Queen's Square, London, 1935-36; *Jr. Assoc. in Med., P. B. B. H.*

FLYNN, JOHN MOLLOY

A.B., Boston College, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., November 1, 1927-March 1, 1929*; Asst. in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H., 1930-36*; *Assoc. in Med., ibid.*; 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., 1927-28; *Med. H. O., P. B. B. H., November 1, 1928-March 1, 1930*; Jr. Instr. in Int. Med., Univ. of Mich., 1930; Instr. in Int., Med., *ibid.*, 1930-32; Asst., 1932-33, Instr. 1933-34, in Pharm. and Exp. Therap., and Jacques Loeb Fellow, 1932-34, Johns Hopkins; Fellow, Nat. Research Council, 1934-35, Gen. Educat. Bd., 1935-36; Research Fellow, 1934-36, in Physiol., and Instr. in Med., 1936, Harv.; *Jr. Assoc. in Med., P. B. B. H.*

FRIEND, DALE G.

B.A., 1930, M.S., 1931, Univ. of Iowa; M.D., Harv., 1935; Asst. to Clin. and Pathol. Chemist, Univ. Hosp., Iowa City, 1930-31; *Med. H. O., P. B. B. H., October 15, 1935-November 1, 1936*; *Asst. Res. Phys., ibid., 1936-37*; Research Fellow, Biol. Chem. and Med., Harv.

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-December 5, 1918; Asst. Prof. of Med., Harv., 1922-28; Assoc. Clin. Prof. of Med., Harv., 1928-33; Chairman, Dept. of Med., *ibid.*, 1928-33; *Physician, P. B. B. H., 1912-32*; Physician-in-Chief, Faulkner Hosp.; *Consult. Phys., P. B. B. H.*

FROTHINGHAM, JOSEPH ROTCH

S.B., Trinity Coll., 1933; M.D., Harv., 1937; *Med. H. O., 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, September, 1925-February, 1926; *Med. H. O., P. B. B. H., March 1, 1926-July 1, 1927*; *Asst. Res. Phys., ibid., September 1, 1927-September 1, 1929*; *Res. Phys., ibid., September 1, 1929-September 1, 1931*; Jr. Asst. Visit. Phys., R. I. Hosp., Prov., 1931-32; Asst. in Med., 1929-33, Instr., 1933-36, Assoc. in Med., Harv.; *Jr. Assoc. in Med., 1931-34, Physician, P. B. B. H.*

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GIBSON, JOHN GRAHAM, II

A.B., Amherst, 1919; M.B.A., Harv., 1921; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H., July 1, 1932-November 1, 1933*; Research Fellow in Med., Harv., 1933-34; *Asst. Res. Phys., P. B. B. H., 1934-35*; Research Fellow in Med., Harv.; *Jr. Assoc. in Med., P. B. B. H.*

GIDDINGS, PAUL DUDLEY

A.B., Harv., 1929; M.A., *ibid.*, 1931; M.D., *ibid.*, 1935; *Surg. H. O., P. B. B. H.*

GOERINGER, CLAIRE F.

A.B., Univ. of Pa., 1931; M.D., Johns Hopkins, 1935; *Med. Interne, Baltimore City Hosp., 1935-36*; *Surg. H. O., P. B. B. H.*

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., 1920-21; Asst. in Pharm., 1921-22; Instr. in Pharm. and Asst. in Med., 1922-24, Assoc. in Pharm., Harv.; *Jr. Assoc. in Med., 1922-25*; *Assoc. in Med., P. B. B. H.*

GREELEY, DAVID McLEAN

M.D., Harv., 1937; *Med. H. O., P. B. B. H.*

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 Hosp., Detroit; *Surg. H. O., P. B. B. H., August 1, 1929-February 1, 1930*; *Asst. Res. Surg., ibid., February 1, 1930-October 1, 1930*; Visit. Orth. Surg., C. H.; Instr. Orth. Surg., Harv.; *Jr. Assoc. in Orth. Surg., P. B. B. H.*

GROSS, ROBERT E.

B.A., Carlton Coll., 1927; M.D., Harv., 1931; Pathol. H. O., Children's Hosp., 1931; *Surg. H. O., ibid., 1932-33*; *Pathol. H. O., 1933-34, Res. Pathol, 1934-35, Asst. Res. Surg., 1935-37, P. B. B. H.*; George Gorham Peters Traveling Fellow, 1937; Res. Surg., Children's Hosp., Boston.

GUNDERSON, TRYGVE

M.D., Harv., 1926; *Surg. H. O., P. B. B. H., November 1, 1926-March 1, 1928*; Ophthalmic Interne, Mass. E. and E. Infirm., 1929-30; Clin. Asst., *ibid.*; Asst. in Ophth. Res., Howe Lab. of Ophthalmology; Asst. in Ophthalmology, Harv.; *Assoc. in Ophthalmology, P. B. B. H.*; in practice, Boston.

HADLER, ARTHUR JOSEPH

A.B., Harv., 1931; M.D., Harv., 1935; *Med. H. O., P. B. B. H., February 15, 1936-January 1, 1938*; *Vol. Grad. Asst., ibid.*

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HALBERSLEBEN, DAVID L.

A.B., Univ. Neb., 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-November 1, 1929*; Physician, Faulkner Hosp.; *Jr. Assoc. in Med., P. B. B. H.*; in practice, Roslindale, Mass.

HARRIS, ALFRED W.

M.D., Washington Univ., 1935; Interne and Res. in Med., St. Paul's Hosp., Dallas, Texas, 1935-1936; *Asst. Res. Phys., P. B. B. H., January 1, 1937 to January 1, 1938*; *Vol. Grad. Asst., ibid.*

HARRISON, JOHN HARTWELL

B.S., Univ. of Va., 1929; M.D., *ibid.*, 1932; Med. Interne, Lakeside Hosp., 1932-33; *Surg. H. O., P. B. B. H., November 1, 1933-March 1, 1935*; *Harvey Cushing Fellow, ibid., 1935*; *Urological Fellow, ibid., June 15, 1935-July 1, 1937*; *Asst. Res. Surg., ibid.*

HARVEY, EARLE A.

B.S., Univ. of Wash., 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H., November 1, 1929-March 1, 1931*; House Phys., Mercy Hosp., Denver, Colo., July 1, 1931-April 1, 1933; *Jr. Assoc. in Med., P. B. B. H.*; in practice, Boston.

HASTINGS, A. BAIRD

A.B., Univ. Mich., 1917; Ph.D., Columbia, 1921; Hamilton Kuhn Prof. Biological Chemistry, Harv.; *Consulting Chemist, P. B. B. H.*

HAWKINS, JAMES WESLEY

B.S., Univ. Idaho, 1930; M.S., *ibid.*, 1931; M.D., Harv., 1934; Interne, Cincinnati Gen. Hosp., 1935-36; *Surg. H. O., P. B. B. H.*

HOERR, STANLEY O.

A.B., Antioch, 1932; M.D., Harv., 1936; *Surg. H. O., P. B. B. H., June 15, 1936-February 1, 1938.*

HOMANS, JOHN

A.B., Harv., 1899; M.D., *ibid.*, 1903; House Pupil, M. G. H., 1903-04; Asst. in Hunterian Lab., Johns Hopkins, 1908-09; Vol. Asst. Surg., Children's Hosp., Boston, 1909-10; Surg., M. G. H., O. P. D., 1910-12; Asst. in Surg., Harv., 1910-13; Surg., Boston Disp, 1913-14; Assoc. in Surg., Harv., 1914-15; Major, M. C., U. S. Army, 1918-19; Clin. Prof. Surg., Harv.; William H. Camalt Prof. Surg., Yale, 1936-37; *Surg., P. B. B. H.*

HORACK, HAROLD M.

M.D., Duke, 1937; *Med. H. O., P. B. B. H.*

HOWARD, RUTLEDGE WILLIAM

A.B., Princeton, 1932; M.D., Harv., 1937; *Surg. H. O., P. B. B. H.*

HOWLAND, JOSEPH BRIGGS

M.D., Harv., 1896; Surg. House Pupil, M. G. H., 1896-97; Asst. Phys., State Hosp., Tewksbury, Mass., 1898-1901; Asst. Supt., *ibid.*, 1901-02; Supt., State Colony for the Insane, Gardner, Mass., 1902-07;

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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.*, 1922-36; Pres., Local Med. Supt's Club; Pres., Hosp. Council of Boston and Trustee, Mass. Hosp. Ass'n; Lecturer, Hosp. Adm., Harv.; Sec'y, Harvard Cancer Comm.; Administrator, Collis P. Huntington Mem. Hosp. (Harv.); *Supt.*, P. B. B. H.

HOYT, LYMAN H.

B.S., Univ. of Iowa; M.D., *ibid.*, 1925; Med. Interne, Univ. Hosp., Iowa City, 1925-26; Asst. in Med., Harv.; *Asst. Res. Phys.*, 1926-27, *Jr. Assoc. in Med.*, 1927-35, *Assoc. in Med.*, P. B. B. H.

JOHNSON, HARALD N.

B.S., Univ. of Nebraska, 1930; M.A. (Anat.) *ibid.*, 1932; M.D., *ibid.*, 1933; *Med. H. O.*, P. B. B. H., October 15, 1933-March 1, 1935; Asst. Res. Phys., Cleveland City Hosp., 1935; *Pathol.*, H. O., P. B. B. H., 1935-36; Res. Pathol., Children's Hosp., 1936-37; *Asst. Res. Phys.*, P. B. B. H.

KANE, GEORGE D.

A.B., Clark Univ., 1931; M.D., C.M., McGill, 1936; *Vol. Grad. Asst. in Pathol.*, 1936, *Pathol. H. O.*, P. B. B. H., January 1, 1937-January 1, 1938.

KEELEY, JOHN L.

B.S., Loyola, 1927; M.D., *ibid.*, 1930; Asst. in Microscopic Anat., 1926-27; Interne, Mercy Hosp., Chicago, 1929-30; Asst. Phys., Dept. of Student Health, Univ. of Wisconsin, 1931-33; Asst. Res. Surg., State of Wisconsin General Hosp., 1933-34; Res. Surg., *ibid.*, 1934-35; Res. and Instr. in Surg., *ibid.*, 1935-36; Arthur Tracy Cabot Fellow, Harv.; *Jr. Assoc. in Surg.*, P. B. B. H., 1936-37; Harvey Cushing Fellow, *ibid.*

KENDALL, LEE GORDON

A.B., Harv., 1925; M.D., *ibid.*, 1930; *Surg. H. O.*, P. B. B. H., October 1, 1930-February 1, 1932; *Asst. Res. Surg.*, *ibid.*, February 1, 1932-September 1, 1932; Asst. Res. Surg., N. Y. Hosp., 1932-35; *Jr. Assoc. in Surg.*, P. B. B. H.

KENNARD, JOHN H.

A.B., Harv., 1932; M.D., *ibid.*, 1936; *Surg. H. O.*, P. B. B. H.

KENNEDY, JAMES A.

B.A., Vanderbilt, 1931; M.D., *ibid.*, 1934; *Med. H. O.*, P. B. B. H., October 15, 1934-March 1, 1936; Research Fellow in Med., Harv.; *Asst. Res. Phys.*, P. B. B. H., March 1, 1936-July 1, 1937; Study abroad, Cambridge, England.

KEVORKIAN, ALBERT Y.

M.D., Tufts, 1934; Rotating Interne, Newton Hosp., 1934-35; H. O., Free Hosp. for Women, 1935-37; *Acting Asst. Res. Surg.*, P. B. B. H.

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KIMBALL, STANLEY

M.D., Harv., 1935; *Med. H. O., P. B. B. H., June 15, 1935-March 1, 1937.*

KIMMEL, CHARLES B.

B.A., Northcentral Coll., Naperville, Ill., 1929; M.D., 1932, M.S., 1934, Northwestern; Interne, Evanston Hosp., 1932-33; *Med. H. O., October 15, 1935-November 1, 1936, Jr. Asst. Res. in Roent., P. B. B. H., November 1, 1936-July 1, 1937*; Member, Medical Staff, Lahey Clinic, Boston.

KNOWLTON, WILSON WARNER

B.S., Bowdoin, 1922; M.D., Harv., 1926; M.P.H., *ibid.*, 1934; Interne, Rochester Gen. Hosp., Rochester, N. Y., 1926-27; County Health Officer, Louisiana, 1927-29; State District Health Officer, Mass. Dept. Public Health, 1929-34; *Second Asst. Supt., P. B. B. H., March 5, 1934-April 1, 1937; First Asst. Supt., ibid.*

KUTZER, MAX

A.B., Harv., 1932; M.D., *ibid.*, 1936; *Med. H. O., P. B. B. H., June 15, 1936-March 1, 1938.*

LADD, WILLIAM E.

A.B., Harv., 1902; M.D., *ibid.*, 1906; Chief Surgeon, Children's Hosp., Boston; Clin. Prof. Surg., Harv.; *Consult. in Surg., P. B. B. H.*

LARKIN, JOHN C.

A.B., Johns Hopkins, 1931; M.D., *ibid.*, 1935; *H. O. in Roent., P. B. B. H., July 1, 1936-July 1, 1937; Asst. Res. in Roent., ibid.*

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-November 1, 1916*; Moseley Traveling Fellow, Harv., 1916-17; Asst., Rockefeller Inst. Hosp., New York, 1916-17; Capt., M. C., U. S. Army, 1917-19; Instr. in Med., Harv., 1919-30; Consult. Phys., Boston Psychopathic Hosp., 1921-24; Phys. to Boston Disp., 1924-26; Visit. Phys., Beth Israel Hosp., 1928-33; *Assoc. in Med., P. B. B. H., August, 1919-March, 1928*; Asst. Prof. of Med., Harv.; *Sr. Assoc. in Med., P. B. B. H.*

LOCKHART, JESSE C.

B.A., Univ. Texas, 1932; M.D., *ibid.*, 1935; Interne, Univ. Calif. Hosp., 1935-36; Asst. Res. in Med., *ibid.*, 1936-37; *Asst. Res. Phys., P. B. B. H.*

LYNCH, GEORGE WILLIAM

A.B., Harv., 1929; M.D., *ibid.*, 1933; *Med. H. O., P. B. B. H., October 15, 1933-March 1, 1935*; Asst., George F. Baker Clin., N. E. Deaconess Hosp., Boston; Asst. Visit. Phys., L. I. Hosp., Boston; *Jr. Assoc. in Med., P. B. B. H.*

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LYONS, RICHARD HUGH

A.B., Univ. of Mich., 1932; M.D., *ibid.*, 1935; *Med. H. O., P. B. B. H.*, October 15, 1935-July 1, 1937; *Asst. Res. Phys., ibid.*

MACPHERSON, DONALD JOHN

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

MARKS, JOSEPH H.

B.A., Univ. of Wis., 1925; M.A., *ibid.*, 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H.*, March 1, 1930-July 1, 1931; *H. O., Roent., ibid.*, July 1, 1931-April, 1932; Member of Staff, N. Y. State Hosp. for Incipient Tbc., 1932; *Asst. Res. Roent., P. B. B. H.*, 1932-33; Roentgenologist, Truesdale Hosp., Fall River, Mass., 1934-36, Roentgenologist, Deaconess Hosp., Boston, Mass.; *Assoc. in Roent., P. B. B. H.*

MARLOW, JR., FRANK WILLIAM

B.S., Hamilton, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H.*, July, 1927-November, 1928; *Asst. Res.*, New Haven Hosp., 1928-29; *Asst. in Med.*, Yale, November, 1928-July, 1929; *Asst. in Med.*, M. G. H., 1929-34; Physician, Faulkner Hosp.; *Asst. in Med.*, Harv.; *Assoc. in Med., P. B. B. H.*; in practice, Brookline, Mass.

MARQUIS, HAROLD

A.B., Univ. of Calif., 1930; M.D., *ibid.*, 1934; *Interne and Asst. Res.* San Francisco Hosp., 1933-35; *Asst. Res. Phys., P. B. B. H.*, August 1, 1935-August 1, 1937; in practice, San Francisco, Calif.

MASSIE, EDWARD

A.B., Wash. Univ., 1931; M.D., *ibid.*, 1935; *Interne, Medical Service*, Barnes Hosp., 1935-36; *Asst. Res. Phys., P. B. B. H.*

McCLURE, WILLIAM C.

B.A., Univ. Okla., 1932; B.M., *ibid.*, 1933; M.D., *ibid.*, 1936; *Med. H. O., P. B. B. H.*

McCUNE, WILLIAM S.

A.B., Swathmore, 1931; M.D., Harv., 1935; *Surg. H. O., M. G. H.*, 1935-37; *Asst. Res. Surg., P. B. B. H.*

MILLER, JR., JOSEPH L.

B.S., Univ. Chicago, 1931; M.D., *ibid.*, 1935; *Med. H. O., P. B. B. H.*, June 15, 1935-March 1, 1937; in practice, Chicago, Ill.

MILLER, WALLACE C.

D.D.S., Chicago College of Dental Surg., 1930; B.S., Lewis Inst., Chicago, 1931; M.D., Loyola Medical School, 1936; *Interne, Oral Surg.*, Cook Co. Hosp., Chicago, 1930-31; *Rotating Interne*, Lucas Co. Hosp., Chicago, 1936-37; *H. O. in Roent., P. B. B. H.*

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MINER, LEROY M. S.

Dean, Harv. Dental Sch.; *Consult. in Dental Surg., P. B. B. H.*

MINOT, GEORGE R.

A.B., Harv., 1908; M.D., *ibid.*, 1912; S.D., Harv., 1928; Fellow, American Academy Arts and Sciences; Honorary Fellow, Royal College of Phys., Edinburgh, 1931; Correspondent etranger, Royal Acad. of Med., Belgium, 1931; Hon. Fellow, Royal Society of Med., London, 1932; Hon. Fellow, N. Y. Academy of Med., 1933; Hon. Fellow, Inst. of Med. of Chicago, 1933; Nobel Laureate in Med. and Physiol., 1934; Fellow, American Philosophical Society, 1935; Member, Kaiserlich Leopold Carolin Deutsche Akademie der Naturforscher, 1935; Hon. Member, Society of Biological Chemists, India, 1936; Member, National Academy of Sciences, U. S. of America, 1937; Med. H. O., East Med. Serv., M. G. H., July, 1912-December, 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., September, 1917, and September 15-November, 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., February 12, 1925-March 8, 1928*; Member, Board of Consultation, M. G. H.; Director, Thorndike Mem. Lab. and Visiting Phys., Second and Fourth Medical Services (Harv.), Boston City Hospital; 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-November 1, 1925*; *Asst. Res. Phys., ibid., November 1, 1925-September 1, 1926*; Asst. in Med., 1926-28, Istr. in Med., 1928-31, Faculty Instr., 1931-35, Assoc. in Med., Harv.; *Jr. Assoc. in Med., 1926-32, Assoc. in Med., 1932-36, Physician, P. B. B. H.*

MOORE, RALPH C.

B.S., Univ. of Nebraska, 1934; M.D., *ibid.*, 1937; *Med. H. O., P. B. B. H.*

MUNCE, RICHARD THOMAS

B.A., Univ. of Maine, 1931; M.D., Harv., 1935; *Surg. H. O., P. B. B. H., February 15, 1936-July 1, 1937.*

MURPHY, WILLIAM P.

A.B., Univ. Ore., 1914; M.D., Harv., 1922, as of 1920; Nobel Laureate in Med. and Physiol., 1934; Commander, First Rank, Order of the White Rose, Finland, 1934; Member, Kaiserlich Leopold

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Carolin Deutsche Akademie der Naturforscher, 1935; H. O., R. I. Hosp., 1920-22; *Asst. Res. Phys.*, P. B. B. H., 1922-23; *Asst.*, 1924-28, *Instr.*, 1928-35; *Assoc. in Med.*, Harv.; *Jr. Assoc. in Med.*, 1923-26, *Assoc. in Med.*, 1926-35, *Sr. Assoc. in Med.*, P. B. B. H.

MYERS, ROBERT SAMUEL

A.B., Amherst, 1933; M.D., Harv., 1937; *Surg. H. O.*, P. B. B. H.

MYHRE, WILLIAM N.

M.D., St. Louis Univ., 1931; *Interne*, St. Luke's Hosp., Spokane, Wash., 1931-32; *Med. H. O.*, P. B. B. H., February 15, 1934-July 1, 1935; *H. O.*, *Roent.*, *ibid.*, July 1, 1935-July 1, 1936; *Asst. Res. in Roent.*, *ibid.*, July 1, 1936-July 1, 1937; in practice, Spokane, Wash.

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-September 1, 1921; *Res. Surg.*, *ibid.*, September 1, 1921-July 1, 1923; *Jr. Assoc. in Surg.*, *ibid.*, July 1-September 15, 1923; *Asst. in Surg.*, Harv., 1920-23; Moseley Trav. Fellow, *ibid.*, 1923-24; Vol. *Asst.*, Phys. Inst., Berne, Switzerland, 1923-24; *Instr. in Surg.*, Harv., 1924-28; *Faculty Instr. in Surg.*, *ibid.*, 1928-35; *Supervisor of Surg. Lab.*, *ibid.*, 1925-32; *Consult. Surg.*, N. E. Peabody Home for Crippled Children; *Assoc. in Surg.*, Harv.; *Faculty Council*, *ibid.*, 1935-38; *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., November 1, 1921-March 1, 1923; *Asst. Res. Surg.*, *ibid.*, October 1, 1923-July 1, 1924; *Res. Surg.*, *ibid.*, July 1, 1924-October 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., 1928-31; *Faculty Instr. in Surg.*, *ibid.*; *Jr. Assoc. in Surg.*, P. B. B. H., 1931-36; *Assoc. in Surg.*, *ibid.*, 1936-37; *Sr. Assoc. in Surg.*, *ibid.*

NUNEMAKER, JOHN C.

B.S., Univ. Idaho, 1932; M.S., *ibid.*, 1933; M.D., Harv., 1937; *Med. H. O.*, P. B. B. H.

OBER, FRANK R.

M.D., Tufts, 1905; *Interne*, Carney Hosp., 1905-1906; *Surg. and Orth. Interne*, C. H., 1913-1914; *Res.*, *Orth. Serv.*, *ibid.*, 1914-15; *General Practice*, Northeast Harbor, Maine, 1906-13; *Jr. Asst. Surg.*, C. H., 1915-19; *Asst. Surg.*, *ibid.*, 1919-23; *Assoc. Surg.*, *ibid.*, 1923-31; *Alumni Asst.*, Harv., 1914-15; *Asst.*, *ibid.*, 1915-19; *Instr.*, *ibid.*, 1919-23; *Asst. Prof.*, *ibid.*, 1923-31; *Clin. Prof. in Charge Orth. Dept.*, *ibid.*; *Asst. Dean*, *ibid.*; *Chief Surg.*, N. E. Peabody Home for Crippled Children; *Prof. Orth.*, Vermont Medical School; *Surg.*,

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Vermont State Infantile Paralysis Dept.; Chief, Orth. Dept., C. H.;
Orth. Surg., P. B. B. H.

O'CONNOR, JOHN B.

B.A., Univ. Mo., 1930; M.D., Harv., 1934; Asst. Res., Trudeau, 1934-35; Res. Phys., Gabriel's San., 1935-37; *Med. H. O., 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., 1913-14; Asst. Visit. Phys., B. C. H., 1915; Asst. in Med., Harv., 1915-18; *Assoc. in Med., P. B. B. H., July 1, 1915-August 1, 1917; Act. Phys., ibid., August 1, 1917-February 1, 1918; Assoc. in Med., ibid., February 1-April 1, 1918; Act. Phys., ibid., April 1, 1918-January 1, 1919; Assoc. in Med., ibid., January 1, 1919-March 8, 1928; Instr. in Med., Harv., 1927-30; Asst. Prof. of Med., ibid.; Sr. Assoc. in Med., P. B. B. H.*

OLIVER, E. LAWRENCE

M.D., Harv., 1904; Med. H. O., B. C. H., 1905-07; Derm. H. O., M. G. H., 1907-09; Asst. Dermatologist, *ibid.*, 1910-23; Assoc. in Dermatology, *ibid.*, 1923-24; Dermatologist, *ibid.*, 1925-28; Chief. Dermatological Dept., *ibid.*, 1928-29; Chief, Dept. Dermatology and Syphilis, *ibid.*, 1929-36; Consult. Dermatologist, Boston Lying-in Hosp., Beth Israel Hosp., Children's Hosp., Long Island Hosp., Faulkner Hosp., Cable Mem. Hosp., Ipswich, Elliot Community Hosp., Keene, N. H., Mass. Eye and Ear Infirm.; Member, Board of Consultation, M. G. H.; Consult. Dermatologist, Salem Hosp., Salem, Mass., Mass. Soldiers' Home, Chelsea; Clin. Prof. Emeritus Dermatology and Syphilology, Harv.; *Consult. Dermatologist, P. B. B. H.*

OSGOOD, WINTHROP B.

M.D., Tufts, 1928; Interne, Lowell Corp. Hosp., 1928-29; Private Practice, June, 1929-December, 1929; Physician, Boston State Hosp., 1929-37; *Asst. Supt., P. B. B. H.*

PIJOAN, MICHEL

B.A., Pomona Coll., Claremont, Calif., 1929; M.D., Johns Hopkins, 1934; *Harvey Cushing Fellow, P. B. B. H., 1936-37; Jr. Assoc. in Surg., ibid.*

QUIGLEY, THOMAS BARTLETT

A.B., Harv., 1929; M.D., *ibid.*, 1933; Res. Pathol., Willard Parker Hosp., New York, 1933; *Surg. H. O., P. B. B. H., March 1, 1934-July 1, 1935; Harvey Cushing Fellow, July-December, 1935; George Gorham Peters Traveling Fellow, 1936; Jr. Assoc. in Surg., P. B. B. H., March-July, 1936; Asst. Res. Surg., ibid., July 1, 1936-November 1, 1937; Member, Surg. Res. Staff, Doctor's Hosp., N. Y.*

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

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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.

RECTOR, LEWIS E.

B.S., Oregon State Coll., 1925; M.D., Washington Univ., 1936; *Pathol. H. O.*, P. B. B. H., July 1, 1936-July 1, 1937.

REIFENSTEIN, GEORGE H.

A.B., Syracuse, 1932; M.D., *ibid.*, 1936; *Med. H. O.*, P. B. B. H.

REITER, BENJAMIN R.

B.S., Princeton, 1930; M.D., Harv., 1934; *Surg. H. O.*, P. B. B. H., June 15, 1934-November 1, 1935; Res. Pathol., Philadelphia Gen. Hosp., 1935-36; *Asst. Res. Surg.*, P. B. B. H.

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 Infirm., Ear, Nose and Throat Serv., 1922-24; Chief in Otolaryngology, Children's Hosp., 1924-35; Research Assoc. Otolaryngology, *ibid.*; Assoc. in Otolaryngology, N. E. Deaconess Hosp.; Assoc. in Otolaryngology, N. E. Baptist Hosp.; Consult. in Bronchoscopy, Union Hosp., Fall River; Consult. in Otolaryngology, N. E. Hosp. for Women and Children; *Assoc. in Otolaryngology*, 1924-30, *Consult. in Otolaryngology*, 1930-32; Assoc. Prof. Otolaryngology, Tufts; *Otolaryngologist*, P. B. B. H.

ROBERTS, CHARLES PURCELL

A.B., Emory, 1931; M.D., *ibid.*, 1935; *Med. H. O.*, P. B. B. H., October 15, 1935-July 1, 1937; Res. in Cardiology, R. I. Hosp., Providence, R. I.

ROBERTSON, JAMES EASTON

A.B., Univ. Calif., 1931; M.D., Harv., 1935; *Med. H. O.*, P. B. B. H., February 15, 1936-November 1, 1937; Asst. Phys., Huntington Mem. Hosp.

ROBINSON, ROGER WILLIAM

B.S., Northwestern, 1934; M.D., *ibid.*, 1935; Rotating Interne, Passavant Mem. Hosp., 1934-35; Med. Res., *ibid.*, 1935-36; *Asst. Res. Phys.*, P. B. B. H., August 1-November 1, 1936; Research Asst. in Med., Harv., 1936-37; *Asst. Res. Phys.*, P. B. B. H.

RUTHERFORD, ROBERT B.

B.S., M.S., Northwestern, 1936; M.D., *ibid.*, 1937; Interne, Presbyterian Hosp., Chicago, 1935-37; Asst. Res. Pathol., *ibid.*, March-October, 1937; *Asst. Res. Phys.*, P. B. B. H.

SALTER, WILLIAM THOMAS

A.B., Harv., 1922; M.D., *ibid.*, 1925; Med. Interne, M. G. H., 1925-27; Med. Res., *ibid.*, 1927-28; Moseley Trav. Fellow, Harv., 1928-29; Research Fellow in Med., *ibid.*, 1928-29; Tutor and Instr., Bio-chemi-

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cal Sciences, Harv., 1929-35; Asst. Prof., Bio-chemical Sciences, *ibid.*; Faculty Instr. in Med., *ibid.*; Asst. Prof. Med., *ibid.*; Research Fellow in Bio-chemistry to Harvard Cancer Comm.; Assoc. Phys., Huntington Mem. Hosp.; *Jr. Assoc. in Med., P. B. B. H., 1932-36; Assoc. in Med., ibid.*

SAMPSON, DAVID A.

B.A., Saskatchewan, 1923; M.D., McGill, 1931; H. O., Royal Victoria Hosp., 1930-33; Interne in Radiology, Toronto Gen. Hosp., 1935-36; Interne in Roentgenology, Royal Victoria Hosp., 1936; Asst. Res. in Roentgenology, M. G. H., January-June, 1937; *Sr. Asst. Res. in Roent., P. B. B. H.*

SANDMEYER, JOHN A.

M.D., Harv., 1937; *Surg. H. O., P. B. B. H.*

SCHNITKER, MAURICE ARTHUR

B.S., Univ. Toledo, 1929; M.D., Univ. Mich., 1931; Interne and Acting Asst. Res. in Roent., Univ. Chicago Clinics, July 1, 1931-February 1, 1932; *Med. H. O., P. B. B. H., February 15, 1932-July 1, 1933; Asst. Res. Phys., ibid., July 1, 1933-August 1, 1936; Res. Phys., ibid.*

SCHNITKER, MAX T.

M.D., Univ. of Mich., 1931; H. O., Philadelphia Gen. Hosp., 1931-33; *Harvey Cushing Fellow, P. B. B. H., November 1, 1933-March 1, 1934; Asst. Res. Phys., ibid., March 1, 1934-July 1, 1935; Neurol. Fellow, ibid., July 1, 1935-July 1, 1936; Harvey Cushing Trav. Fellow, ibid., September 1, 1936-March 1, 1938.*

SHEPARD, KARL

B.S., Univ. Ga., 1930; M.D., Harv., 1935; Pathol. Interne, Worcester City Hosp., 1935; Interne in Med., Univ. Chicago Clinics, 1936; *Med. H. O., P. B. B. H.*

SOSMAN, MERRILL C.

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

STONE, JR., CHARLES FREDERIC

B.S., Univ. Ga., 1933; M.D., Emory, 1937; *Med. H. O., P. B. B. H.*

STONE, HARRY

D.M.D., Tufts, 1932; *Dental Interne, P. B. B. H., July 1, 1932-July 1, 1933; Asst. in Oral Surg., Beth Israel Hosp.; Asst. Instr. Extraction and Anesthesia, Harv., 1934-37; Instr. in Extraction, ibid.; Jr. Assoc. in Dental Surg., P. B. B. H.; in practice, Boston.*

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STROCK, ALVIN EDWARD

A.B., Dartmouth, 1933; D.M.D., Harv., 1937; *Dental Interne, P. B. B. H.*

STROCK, MOSES SOLOMON

D.M.D., Harv., 1923; Asst. in Extract. and Oral Surg., Harv., 1923-25; Instr. in Extract. and Oral Surg., *ibid.*, 1925-30; Anesthetist, Forsyth Dental Infirmary, 1925-30; Instr. in Oral Surg., Harv.; Dental Surg., M. G. H.; *Dental Surg., P. B. B. H.*

SWAN, DANIEL M.

A.B., Colgate, 1931; M.D., Univ. Rochester, 1935; Interne, R. I. Hosp., 1935-37; *Asst. Res. Phys., P. B. B. H.*

SWANK, ROY LAVER

B.S., Univ. Wash., 1930; M.D., Northwestern, 1934; Ph.D., *ibid.*, 1935; Pathol. Interne, Cook Co. Hosp., July-November, 1934; Interne, Passavant Mem. Hosp., 1934-35; *Med. H. O., P. B. B. H., February 15, 1936-November 1, 1937*; Resarch Fellow in Pathol., Harv.

TANNER, DEAN W.

A.B., Univ. Utah, 1932; M.D., Harv., 1935; Rotating Interne, Stanford Serv., San Francisco Co. Hosp., 1935-36; Interne, Pathol. Dept., C. H., 1937; *Surg. H. O., P. B. B. H.*

TILLMAN, RICHARD N.

A.B., Johns Hopkins, 1932; M.D., *ibid.*, 1936; *Med. H. O., P. B. B. H.*

TWEDDELL, HENRY JAMES

M.D., C.M., Queen's Univ., Kingston, Ont., 1933; Interne, Kingston Gen. Hosp., 1933-34; Richardson Fellow in Clin. Pathol., *ibid.*, 1934-35; Interne, Ottawa Civic Hosp., 1935-36; Asst. to Dr. McKenzie, Royal Victoria Hosp. and McGill Med. School, 1936-37; *Pathol. H. O., P. B. B. H.*

TYLER, HERMON YALE

A.B., Yale, 1931; C.P.H., Harv., 1935; M.D., Tufts, 1937; Pathol. H. O., C. H., July-October, 1937; *Surg. H. O., P. B. B. H.*

VAN RAALTE, LESLIE H.

A.B., Harv., 1928; M.D., *ibid.*, 1932; Interne, Lawrence and Memorial Hospitals, New London, 1932-33; *Vol. Grad. Asst. in Surg., P. B. B. H., 1933-34*; Interne, Gynecology and Obstetrics, B. C. H., 1934-36; Asst. in Gyn. and Obst., *ibid.*; Jr. Staff Member, Milton Hosp.; *Jr. Assoc. in Surg., P. B. B. H.*

VOGT, EDWARD C.

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

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Children's Hosp., Boston; Roent., Huntington Mem. Hosp., 1928;
Assoc. in Roent., P. B. B. H., 1928-38.

WAITE, J. HERBERT

M.D., Harv., 1916; Sc.D., Bucknell, 1936; Ophthalmic Chief of Staff,
Mass. Eye and Ear Infirmary; Clin. Prof. Ophthalmology, Harv.;
Consult. Ophthalmologist, P. B. B. H.

WALCOTT, CHARLES F.

A.B., Harv., 1926; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H., March 1, 1932-July 1, 1933; Jr. Assoc. in Med., ibid.; in practice, Cambridge, Mass.*

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., November 1, 1912-March 1, 1913; Asst. Res. Phys., ibid., March 1, 1913-March 1, 1914; Act. Res. Phys., ibid., March 1, 1914-January 1, 1915; Asst. Res. Phys., ibid., January 1, 1915-March 1, 1915 (granted leave of absence from March 1, 1915-September 1, 1915); Med. Chief. Hosp. A^b. 32^{bis} Passy Yonne, France, 1915; Asst. in Pharmacol., Harv., 1916; Alumni Asst. in Med., *ibid.*, 1916-17; *Act. Phys., P. B. B. H., August 1, 1917-February 1, 1918, and April 1, 1918-December 16, 1918; Asst. Prof. of Med., Harv., 1918-19; Assoc. in Med., P. B. B. H.; in practice, Boston.**

WALTER, CARL W.

A.B., Harv., 1928; M.D., *ibid.*, 1932; *Surg. H. O., P. B. B. H., January 1, 1933-March 1, 1934; Harvey Cushing Fellow, ibid., 1934-35; Arthur Tracy Cabot Fellow, Harv., 1935-36; Jr. Assoc. in Surg., P. B. B. H., July 1, 1935-March 1, 1936; Asst. Res. Surg., ibid., March 1, 1936-July 1, 1937; Director, Lab. of Surg. Research, Harv.; Instr. in Surg., *ibid.*; *Jr. Assoc. in Surg., P. B. B. H.**

WARREN, HARRY A.

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WARREN, RICHARD

M.D., Harv., 1934; Surg. Interne, M. G. H., 1934-36; *Asst. Res. Surg., P. B. B. H., November 1, 1936-March 1, 1938; Res. Surg., ibid.*

WATKINS, ARTHUR LANCASTER

A.B., Harv., 1931; M.D., *ibid.*, 1935; *Med. H. O., P. B. B. H., June 15, 1935-March 1, 1937; Res. in Neurology, M. G. H.*

WEED, MILTON R.

A.B., Wesleyan, 1931; M.D., Harv., 1936; *Med. H. O., P. B. B. H.*

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WELCH, EDWARD JAMES

A.B., Princeton, 1932; M.D., Harv., 1936; *Med. H. O., P. B. B. H.*

WHITE, ROBERT R.

A.B., Harv., 1932; M.D., Univ. Rochester, 1937; *Surg. H. O., P. B. B. H.*

WHITFIELD, ROBERT DAY

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WILHELM, NORBERT A.

B.S., St. Louis Univ., 1922; M.D., *ibid.*, 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; *Second Asst. Supt., P. B. B. H., July 20, 1930-March 5, 1934*; *First Asst. Supt., ibid., March 5, 1934-April 1, 1937*; Supt., Butterworth Hosp., Grand Rapids, Mich.

WILKINS, GEORGE FRANKLIN

A.B., Holy Cross, 1928; M.D., Harv., 1932; *Surg. H. O., P. B. B. H., October 1, 1932-February 1, 1934*; *Jr. Assoc. in Surg., P. B. B. H.*; in practice, Boston.

WILLIAMS, McCHORD

B.S., Furman Univ., 1932; M.A., Duke, 1933; M.D., Harv., 1937; *Surg. H. O., P. B. B. H.*

WOLBACH, SIMEON BURT

Stud., Harv., 2 yrs.; M.D., *ibid.*, 1903; Second Asst. in Pathol., B. C. H., 1903-04; First Asst. in Pathol., *ibid.*, 1904-05; Second 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, N. Y., 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, January-August, 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.,

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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.*

ZINSSER, HANS

A.B., Columbia, 1899; A.M., M.D., *ibid.*, 1903; Sc.D., Hon. Caus., *ibid.*, 1929; Sc.D., Hon. Caus., Western Reserve Univ., 1931; Hon. Sc.D., Lehigh Univ., 1933; House Staff, Roosevelt Hosp., 1903-05; Bacteriologist, *ibid.*, 1905-06; Asst. Bacteriologist, Columbia Univ., 1905-06; Asst. Pathol., St. Luke's Hosp., 1907-10; Instr. in Bacteriology, Columbia, 1908-10; Assoc. Prof. Bact., Leland Stanford Univ., 1910-11; Prof. of Bact., *ibid.*, 1911-13; Red Cross Exp. to Serbia, 1915; Medical Corps., A. E. F., 1917-19; Prof. Bact., Columbia, 1913-23; Bacteriologist, Presbyterian Hosp., 1913-23; San. Comm. to Russia (League of Nations) 1923; Exchange Prof., Univ. of Paris, 1935; Chief of Bact. Serv., Children's Hosp.; Chief of Bact. Serv., Infants' Hosp.; Prof. of Bact., Harv.; *Consult. Bact., P. B. B. H.*

ZOLLINGER, ROBERT

B.S., Ohio State Univ., 1925; M.D., *ibid.*, 1927; H. O., Inst. for Feeble-Minded, Columbus, Ohio, 1925-27; Vol. Asst., Lab. of Surg. Research, Lakeside Hosp., July, 1927-January, 1928; *Surg. H. O., P. B. B. H., January 1, 1928-May 1, 1929*; Asst. Phys., Inst. for Feeble-Minded, Columbus, Ohio, May, 1929-July, 1929; Asst. Res. Surg., Lakeside Hosp., July 1, 1929-July 1, 1930; Crile Research Fellow in Surg., and Director of Lab. of Surg. Res., Western Reserve Univ., 1930-31; Demonstr. in Surg., *ibid.*, 1930-32; Asst. Res. in Surg., Lakeside Hosp., 1931-32; Res. Surg., *ibid.*, July-September, 1932; *Res. Surg., P. B. B. H., September, 1932-July, 1934*; Instr. in Surg., 1932-36, Austin Teach. Fellow in Surg., Assoc. in Surg., Harv.; *Jr. Assoc. in Surg., P. B. B. H., 1934-37; Sr. Assoc. in Surg., ibid.*

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ABELL, JR., WILLIAM IRVIN

B.A., Yale, 1931; M.D., Univ. of Louisville, 1935; *Surg. H. O., P. B. B. H., June 15, 1935-November 1, 1936*; in practice, Louisville, Ky.

ADAMS, FRANK DENNETTE

Litt.B., Princeton, 1913; M.D., Harv., 1917; Med. H. O., M. G. H., 1917-18; First Lieut., M. C., U. S. Army, 1918-19; *Pathol. H. O., P. B. B. H., October 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.

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., September 1, 1930-July 1, 1932*; Demonstr. in Med., McGill; Assoc. in Med., Montreal Gen. Hosp.; in practice, Montreal.

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., September 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, N. J., 1920-24; Chief of Asthma Dept., Cornell Clin., New York, 1921-24; Editor, *Journal of Allergy*; Assoc. Prof. Clin. Med., Washington Univ., and Assoc. Phys., Barnes Hosp., and St. Louis Maternity Hosp.; Consult. Phys., St. Louis City Hosp.

ALT, HOWARD L.

B.S., Northwestern, 1923; M.D., 1924, M.S., 1933, Ph.D., 1934, *ibid.*; H. O. in Med. and Surg., Wesley Mem. Hosp., Chicago, 1923-25; *Asst. Res. Phys., P. B. B. H., July 1, 1925-September 1, 1927*; Teaching Fellow in Med., Harv.; *Res. Phys., P. B. B. H., September 1, 1927-September 1, 1929*; Asst. in Kaiser Wilhelm Inst. für Biologie, Berlin, Prof. Warburg, October, 1929-April, 1930; Asst. in Med. Clin., Univ. of Würzburg, Prof. Grafe, May-August, 1930; Assoc. in Med. and Instr. in Chemistry, Northwestern Univ. Med. Sch., and Passavant Mem. Hosp., Chicago, 1930-36; Asst. Prof. of Med. and Instr. in Chem., Director of Laboratories, Director of Student Health, *ibid.*

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ALT, RICHARD E.

A.B., Harv., 1927; M.D., *ibid.*, 1931; H. O., M. G. H., 1931-33; *Fellow in Urol., P. B. B. H., 1933-35*; in practice, Beverly, Mass.

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, N. D., 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*; Visit. Phys., Glen Lake San.; in practice, Minneapolis, Minn.

ALTSCHULE, MARK D.

B.S., College of City of N. Y., 1927; M.D., Harv., 1932; *Pathol. H. O., P. B. B. H., January-July, 1932*; Med. H. O., Beth Israel Hosp., November, 1932-April, 1934; Res. in Med. Research, *ibid.*, 1934-35; Research Fellow in Med., Harv., 1934-35; Asst. in Med., *ibid.*; Research Assoc., Beth Israel Hosp.

ANDERSON, FREDERICK MATHER

B.S., Univ. of Nevada, 1928; B.A., Oxford, 1931; M.D., Harv., 1934; *Surg. H. O., P. B. B. H., February 15, 1935-July 1, 1936*; Asst. Res. Surg., New Haven Hosp.

ARMSTRONG, WILBER P.

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

ATWATER, REGINALD MYERS

A.B., Colorado Coll., 1914; M.D., Harv., 1918; C.P.H., Johns Hopkins, 1920; Dr. P.H., *ibid.*, 1921; *Med. H. O., P. B. B. H., March 1, 1918-April 15, 1919*; Dept. of Hygiene, Human-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, N. Y., 1927-35; Exec. Sec., American Public Health Assoc., New York; Managing Editor, American Journal of Public Health.

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., January 1, 1913-January 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.

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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-December 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., September 1, 1920-July 1, 1921*; Asst. Etranger à la Salpêtrière, Paris, 1921-22; *Jr. Assoc. in Surg., P. B. B. H., July, 1922-September, 1923*; Asst. Etranger à l'Hospice Sainte Anne, Paris, 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, September, 1920-December, 1920; Assoc. in Med., Presbyterian Hosp., New York, January, 1921-July, 1921; *Asst. Res. Phys. (acting) P. B. B. H., December 20, 1921-February 1, 1922*; Asst. Prof. and Instr. in Med., Strong Mem. Hosp., Rochester, N. Y.; Phys., Rochester Gen. Hosp., Rochester, N. Y.; Grunow Clin., Phoenix, Ariz.; Med. Director, Desert Sanatorium, and Inst. of Research, Tucson, Ariz., 1934-37; in practice, Phoenix, Ariz.

BALYEAT, RAY MORTON

A.B., Oklahoma, 1912; M.S., 1915, M.A., 1916, M.D., 1918, *ibid.*; *Med. H. O., P. B. B. H., 1916-19*; Assoc. Prof. of Med., and Lect. on Allergic Diseases, Univ. of Oklahoma; Consult. Phys., St. Anthony's Hosp. and State Univ. Hosp., Oklahoma City; in practice, Oklahoma City.

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., 1925-27; *Med. H. O., P. B. B. H., January 1-March 1, 1927*; *Asst. Res. Phys., ibid., July 1, 1927-July 1, 1929*; Res. Phys., Passavant Mem. Hosp., Chicago, 1929-31; Consult. in Cardio-Renal Dis., Hines Mem. Hosp., 1931-36; Director, Renal Clin., Northwestern Univ. Med. Clin.; Asst. Prof. in Med., Northwestern Univ.; Attend. Phys., Passavant Mem. Hosp.; in practice, Chicago, Ill.

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-November 1, 1927*; P. G. course, Orth. Surg., Children's Hosp. and M. G. H., January, 1928-September, 1929; Asst. Orthopedic Surg., M. G. H.; Asst. Surg., N. E. Peabody Home for Crippled Children; Asst. in Orthopedic Surg., Harv.

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BARROW, WILLIAM HULBERT

A.B., Harv., 1908; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., November 1, 1916-June 17, 1917*; Lieut. and Capt., M. C., U. S. Army, 1917-21; Med. Advisor, Middlesex School, Concord, Mass., 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.; President, Southern Calif. Med. Assoc.; in practice, San Diego, Calif.

BARTRAM, EDWARD A.

M.D., Univ. of Western Ontario, 1928; Rotating Interne, Montreal Gen. Hosp., 1928-29; Sr. in Pathol., *ibid.*, 1929-30; Demonstrator in Pathol., McGill Univ., 1929-30; Sr., Med. Serv., Montreal Gen. Hosp., 1930-31; Asst. in Med., Harv., 1931-32; *Asst. Res. Phys., P. B. B. H., July 1, 1932-August 15, 1933*; Instr. in Med., and in Electrocardiography, Univ. Western Ontario; Asst. Phys., Victoria Hosp. and St. Joseph's Hosp., London, Ont.; in practice, London, Ont., Can.

BATES, ROBERT REED

B.S., Northwestern, 1931; M.D., *ibid.*, 1932; Interne, Passavant Mem. Hosp., 1932-33; *Surg. H. O., P. B. B. H., April 1, 1933-September 1, 1933 (resigned)*; *Surg. H. O., P. B. B. H., October 15, 1934-March 1, 1936*; Surg. Fellow, Passavant Mem. Hosp., Chicago, 1936-37.

BECK, CLAUDE S.

A.B., Franklin and Marshall College, 1916; Grad. Sch., Univ. of Pittsburgh, 1916-17; M.D., Johns Hopkins, 1921; Sc.D., Franklin and Marshall Coll., 1937; 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*; Crile Fellow in Surg.; in charge Surg. Lab., Western Reserve Univ., Cleveland, Ohio, 1924-25; Instr. in Surg., Western Reserve Med. School; Res. Surg., Lakeside Hosp., Cleveland, 1926-27; *Asst. Res. Surg., P. B. B. H., April 9-June, 1927*; Instr. in Surg., Western Res. Univ. School of Med.; Asst. Surg., Lakeside Hosp., 1927-28; Assoc. Surg., *ibid.*; Asst. Prof. Surg., Western Reserve Univ. Sch. of Med., 1928-33; Assoc. Prof. Surg., *ibid.*

BELT, A. ELMER

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

BENET, GEORGE

Student for three years, 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-January 1, 1915; Lab. Asst. Harv. Unit, Am. Ambulance Hosp., Paris, France,

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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., 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.; Consult., Gen. Surg., U. S. Veterans' Hosp.; in practice, Columbia, S. C.

BENNETT, DARWIN E.

B.S., Whitman, 1924; M.D., Harv., 1931; *Pathol. H. O., P. B. B. H., July 1, 1931-January 1, 1932; Surg. H. O., ibid., January 1, 1932-May 1, 1933*; in practice, Fitchburg, Mass.

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., September 1, 1927-September 1, 1929*; Instr. of Pathol., 1934-35, Assoc. in Pathol., Harv., 1935-37; Asst. Prof. *ibid.*

BENTON, ROY WILMOT

Ph.B., Brown Univ., 1918; M.D., Harv., 1922; *Med. H. O., P. B. B. H., November 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., 1928-32; Health Commissioner, Village of Shorewood, Wis., 1932-34; Asst. Med. Director, Northwestern Mutual Life Ins. Co., Milwaukee.

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-September 1, 1923*; Asst. Prof. Medicine, Harv.; *Assoc. in Med., P. B. B. H., September 1, 1923-November 1, 1925*; Prof. of Med., Univ. of Minn., and Chief, Dept. of Med., Univ. Hosp., 1925-32; Physician, S:T Erik's Hosp., Stockholm; in practice, Stockholm, Sweden.

BERRY, ARTHUR N.

B.A., Univ. of the South, 1926; M.D., Harv., 1930; House Surg., Free Hosp. for Women, August 1, 1930-March 31, 1931; *Surg. H. O., P. B. B. H., July 1, 1923-November 1, 1924*; Asst. in Surg. and November 15, 1932; in practice, Columbus, Ga.

BERRY, FRANK BROWN

A.B., Harv., 1914; M.D., *ibid.*, 1917; Pathol. H. O., B. C. H., July-December, 1917; *Med. H. O., P. B. B. H., January 9-March 1, 1918*; First Lieut. and Capt., M. C., U. S. Army, 1918-19; First Asst.

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Pathol., B. C. H., 1919-20; Surg. H. O., Presbyterian Hosp., New York, 1920-21; in practice, Providence, R. I., 1921-23; Res. Surg., Bellevue Hosp., New York, 1923-24; Asst. Prof. Surg., Columbia; Assoc. Surg., Bellevue and Roosevelt Hospitals; 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., April 1, 1931-May 1, 1932*; H. O., B. L. I., May 1, 1932-Pathol., Yale, 1924-25; *Asst. Res. Surg., P. B. B. H., July 1, 1925-October 1, 1926*; *Res. Surg., ibid., October 1, 1926-September 12, 1928*; in practice, Los Angeles, Calif., 1929-31; Prof. of Surg., Univ. of Louisville, 1931-38; in practice, Providence, R. I.

BISHOP, COURTNEY CRAIG

A.B., Yale, 1926; M.D., *ibid.*, 1930; *Surg. H. O., P. B. B. H., October 1, 1930-May 1, 1932*; *Asst. Res. Surg., ibid., May-September, 1932*; Asst. Res. Surg., N. Y. Hosp.; Asst. in Surg., Cornell Med. Sch., 1932-36; Res. Surg., N. Y. Hosp.; Instr. in Surg., Cornell, 1936-38; in practice, New Haven, Conn.

BLAIN, DANIEL

B.A., Washington and Lee Univ., 1921; M.D., Vanderbilt, 1929; *Med. H. O., P. B. B. H., October 15, 1929-March 1, 1931*; Neurol. Serv., B. C. H., 1931-32; Fellow in Psychiatry, Austen Riggs Foundation, Stockbridge, Mass., 1931-32; Resident, Silver Hill San., New Canaan, Conn., 1933-34; Attend. Psychiatrist, Blythewood San., Greenwich, Conn.; in practice, Psychiatry, New York City.

BLAKE, FRANCIS GILMAN

A.B., Dart., 1908; M.D., Harv., 1913; *Med. H. O., P. B. B. H., July 1, 1913-November 1, 1914*; *Asst. Res. Phys., ibid., November 1, 1914-September 1, 1915*; *Res. Phys., ibid., September 1, 1915-October 1, 1916*; Moseley Traveling 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 February 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, 1924-35; Chairman, Div. Med. Sci., Nat. Research Council, 1933-36; Sterling Prof. of Med., Yale Univ., School of Med.; Phys.-in-Chief, New Haven Hosp., New Haven, Conn.

BLOSSER, HAROLD L.

A.B., Grinnell Coll., Grinnell, Iowa; M.D., Harv., 1925; *Pathol. H. O., P. B. B. H., January 1, 1925-January 1, 1926*; Grad. Asst. Roent., M. G. H., 1926; Surg. H. O., Lakeside Hosp., 1926-27; Asst. Res. Surg., *ibid.*, 1927-29; in practice, Portland, Ore.

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BLUMGART, HERRMAN L.

B.S., Harv., 1917; M.D., *ibid.*, 1921; *Med. H. O., P. B. B. H., July 1, 1921-November 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., November 1, 1914-November 1, 1915*; Res. Surg., Greenpoint Hosp., Brooklyn, N. Y., 1915-18; Surg. Serv., Walter Reed Hosp.; Chief Surg., Trinity Hosp., Brooklyn, N. Y.

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, Conn.; 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*; Instr. in Med., Univ. of Pittsburgh; Phys., Western Pennsylvania Hosp.; Director, Renzielhansen Memorial Ward, Children's Hosp., Pittsburgh; Chief, Diabetic Service, *ibid.*; in practice, Pittsburgh, Pa.

BOOTHBY, WALTER MEREDITH

A.B., Harv., 1902; M.D., *ibid.*, 1906; A.M., *ibid.*, 1907; European clinics for eight months, 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 Traveling Fellow, Harv. (Oxford Univ., largely); Anesthetist, B. C. H., 1912; *Supervisor of Anesthesia, P. B. B. H., December 11, 1913-November 14, 1916*; Lect. on Anesthesia and Instr. in Anat., Harv., 1914-16; Capt. and Major., M. C., U. S. Army, 1917-19; Prof. of Exp. Metabolism, Grad. Sch. of Med., Univ. of Minn., Head of Section on Metabolic Invest. and Assoc. in Div. of Bio-Chemistry, Mayo Clin., Rochester, Minn.

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*; in practice, Louisville, Ky.

BOWIE, MORRIS A.

A.B., Univ. of Col., 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H., July 1, 1929-November 1, 1930*; Instr. in Med., Univ. of Pa.; in practice, Rosemont, Pa.

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.*

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Res. Surg., ibid., July 1-August 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; Instr. in Med., Northwestern Univ. Med. Sch.; in practice, Highland Park and Chicago, Ill.

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., October 1, 1928-February 1, 1930*; House Phys., B. L. I., 1930-31; *Asst. Res. Surg., P. B. B. H., April 1, 1931-January 15, 1932*; Asst. Res., Boston Lying-In Hosp., July 1, 1932-December 1, 1933; Res., *ibid.*, December 1, 1933-July 1, 1934; in practice, Boston, 1933-35; Asst. Obstetrician, M. G. H., 1933-35; Clin. Instr. Obstet. and Gyn., George Washington Hosp., Washington, D. C.; in practice, Washington, D. C.

BOYDEN, HORACE MAYO

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

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., July 1, 1930-November 1, 1931*; Res. Surg., Stanford Univ. Med. Sch. Hosps., San Francisco, 1931-32; Asst. in Surg., Stanford Univ. Sch. of Med. & Clin. Instr. in Surg.; in practice, San Francisco.

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., November 1, 1925-March 1, 1927*; Asst. Pathol., M. G. H., 1927-35; Asst. in Psychiatry, Pennsylvania Hosp.

BRIGHAM, FERDINAND

A.B., Tufts Coll., 1912; D.M.D., H.D.S., 1915; *Dental Surg., P. B. B. H., March 13, 1919-January 20, 1920*; Capt., R. A. M. C., 1915-19; Degree, Dental Surg., Fac. of Med., Paris; in practice, Paris, France.

BRIGHAM, ROBERT B.

A.B., Williams, 1924; M.D., Harv., 1928; *Surg. H. O., P. B. B. H., October 1, 1928-June 1, 1929 (resigned)*; H. O., Good Samaritan Hosp., Portland, Ore., July, 1929-July, 1930; in practice, Northampton, Mass.; *died November 26, 1937.*

BRIGHT, ERNEST F.

A.B., Hiram Coll., Ohio, 1925; M.D., Harv., 1929; H. O., Broadway Maternity Hosp., Cambridge, Mass., 1926-27; Pathol. H. O., Palmer Mem. Hosp., 1929-30; Interne in Surg., Lakeside Hosp., 1930-31; Crile Teach. Fellow in Surg., Western Reserve Univ., 1931-32; Asst. Res. Surg., Lakeside Hosp., July-August, 1932; *Asst. Res. Surg., P. B. B. H., September 1, 1932-November 1, 1933*; Chief

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Surg. Res., Lakeside Hosp., 1934-35; Instr. in Surg., Western Reserve Univ.; Exec. Asst. to Director of Surg., Lakeside Hosp.; in practice, Cleveland, Ohio.

BRILL, SELLING

A.B., Stanford, 1920; M.A., *ibid.*, 1922; M.D., Harv., 1924; *Surg. H. O., P. B. B. H., November 1, 1924-March 1, 1926*; Hunter Fellow in Surg., Univ. Hosp., Philadelphia, Pa.; Asst. in Surg., Univ. of Calif.; *Died January 23, 1932.*

BRITTINGHAM, HAROLD HIXON

A.B., Yale, 1916; M.D., Harv., 1920; *Med. H. O., P. B. B. H., July 1, 1920-November 1, 1921*; *Asst. Res. Phys., ibid., November 15-December 6, 1921*; Demonstr. Physiol., Western Reserve Univ., 1922-23; Demonstr. in Med., *ibid.*; Asst. Visit. Phys., Cleveland City Hosp., 1923-30; Visit. Phys., *ibid.* *Died January 6, 1937.*

BROWN, CHARLES LEONARD

B.S., Univ. of Oklahoma, 1919; M.D., *ibid.*, 1921; *Med. H. O., P. B. B. H., March 1, 1922-July 1, 1923*; Res. Pathol., Children's Hosp., 1923-24; Instr. in Pathol., Harv.; *Res. Pathol., P. B. B. H., July 1, 1924-September 1, 1925*; Teach. Fellow in Med., Harv., 1925-27; *Res. Phys., P. B. B. H., 1925-27*; Instr. in Med., Harv., 1927-28; *Jr. Assoc. in Med., P. B. B. H., 1927-28*; Asst. Prof. Int. Med., Univ. of Mich., 1928-29; Assoc. Prof. Int. Med., *ibid.*, 1929-35; Prof. of Med. and Head of Dept. of Med., Temple Univ. Sch. of Med.; in practice, Philadelphia, Pa.

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., October 15, 1920-February 20, 1922*; Surg.-in-Chief, N. J. Zinc Co. Hosp., Franklin, N. J., 1922-24; Asst. Prof. Preventive Med., Univ. of Cinn., 1924-26; Assoc. Prof. Preventive Med., *ibid.*; Med. Director, Comm. on Maternal Health, Acad. of Med., Cincinnati.

BRYAN, JR., WILLIAM W.

B.S., Emory, 1930; M.D., *ibid.*, 1932; Rotating Interne, Jackson Mem. Hosp., Miami, Fla., 1932-33; *Roent. H. O., P. B. B. H., 1933-34*; *Asst. Res. in Roent., ibid., 1934-35*; Roentgenologist, Grady Hosp., Atlanta, Ga., 1935-37; Instr. in Roent., Emory Univ., 1935-37; Asst. Radiologist, Royal Victoria Hosp., Montreal.

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-January, 1917*; *Assoc. in Med.,*

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ibid., January 1, 1917-January 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. *Died September 19, 1935.*

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.*, November 1, 1921-March 1, 1923; H. O., Boston Lying-In Hosp., 1923; Physician, Med. Dept., Boston Disp.; Asst. Prof. Prev. Med., Tufts Medical School; in practice, Boston.

BUCKLEY, RICHARD COTTER

B.S., Trinity, 1919; M.D., Yale, 1924; Res. Pathol., New Haven Hosp., 1924-27; Instr. in Pathol., Yale Medical School, 1924-27; *Surg. H. O.*, *P. B. B. H.*, June 15, 1927-November 1, 1928; *Jr. Assoc. in Surg.*, *ibid.*, November 1, 1928-November 1, 1929; *Asst. Res. Surg.*, *ibid.*, November 1, 1929-April 1, 1930; Asst. Surg., St. Francis Hosp., Hartford, Conn.; in practice, Hartford, Conn.

BUHRMESTER, JR., HARRY C.

M.D., Harv., 1930; H. O., Church Home and Infirmary, Baltimore, Md., 1930-31; *Med. H. O.*, *P. B. B. H.*, February 15, 1931-November 1, 1931; Study in Germany, 1934-36; in practice, Lafayette, Ind.

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.*, October 19, 1912-April 30, 1917; *Curator*, *ibid.*, May 8, 1913-May 10, 1917; 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; Assoc. Editor, *Modern Hosp.*; Supt., Barnes Hosp., St. Louis, Mo.

BUTLER, STUYVESANT

Ph.B., Yale, 1924; M.D., Univ. of Chicago, 1928; Interne, Presbyterian Hosp., Chicago, Ill.; *Asst. Res. Phys.*, *P. B. B. H.*, September 1, 1929-May 1, 1930; Clin. Instr. in Med., Rush. Med. Coll.; Asst. Attend. Phys., Presbyterian Hosp., and Assoc. Attend. Phys., Cook Co. Hosp., Chicago; in practice, Chicago, Ill.

BYSSHE, STANLEY M.

A.B., Harv., 1927; M.D., *ibid.*, 1931; *Surg. H. O.*, *P. B. B. H.*, April 1, 1931-August 1, 1932; H. O., January 1, 1933-January 1, 1934, Asst. Res. in Gynecology, 1934, Res. Pathol., 1934-35, Res. in Obstetrics, 1935-36, Res. in Gynecology, 1936-37, Asst. Attend. Obstetrician and Gynecologist, Sloane Hosp. for Women; Asst. in Obstetrics and Gynecology, Columbia Univ.; Assoc. Attend. Obstetrician and Gynecologist, Vanderbilt Clin., New York; in practice, New York City.

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CADBURY, WILLIAM WARDER

A.B., Haverford, 1898; A.M., *ibid.*, 1899; Sc.D., *ibid.*, 1936; 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. 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, Pa., 1908-09; *Asst. Res. Phys., P. B. B. H., November 1, 1915-March 1, 1916*; Prof. Int. Med., Dr. Sun Yat Sen Med. Coll.; Head. Dept. of Med., Canton Hosp., Canton, China.

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., October 1, 1926-September 15, 1927*; Asst. Surg., London Hosp., London, England; *Asst. Res. Surg., P. B. B. H., September 5-September 19, 1930*; Nuffield Prof. of Surg., Univ. of Oxford, England; Fellow of Balliol College, Oxford.

CALHOUN, ABNER W.

A.B., Univ. of Ga., 1918; M.D., Harv., 1923; two months in tuberculosis work, Ray Brook, N. Y.; Med. H. O., B. C. H., 1924-25; *Asst. Res. Phys., P. B. B. H., November 15, 1925-September 1, 1927*; Chief Res., Grady Hosp., Atlanta, Ga., 1927-28; Assoc. in Med., Emory Univ.; Phys. in Charge, J. J. Gray Clin.; in practice, Atlanta, Ga. *Died November 3, 1937.*

CANNADY, EDWARD W.

A.B., Washington Univ., 1927; M.D., *ibid.*, 1931; Med. H. O., Barnes Hosp., St. Louis, 1931-33; *Asst. Res. Phys., P. B. B. H., 1933-34*; Res. Phys., Barnes Hosp., 1934-35; Asst. in Med., Washington Univ.; Asst. Phys., Barnes Hosp.; Dept. of Health Supervision, Public Schools of East St. Louis, Ill.; in practice, E. St. Louis, Ill.

CARBONE, FRANK STEVEN

D.M.D., Harv., 1934; *Dental H. O., P. B. B. H., July 1, 1934-July 1, 1935*; Asst. Instr. in Extraction and Anes., H. D. S.; in practice, Beverly, Mass.

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-February 1, 1916*; *Roentgenologist, ibid., February 1, 1916-October 31, 1917*;

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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.*, January 4, 1915-July 1, 1916; Asst. Res. Phys., J. H. H., 1916-17; Res. Phys. in charge of Private Wards, *ibid.*, 1917-18; First Lieut., M. C., U. S. Army, 1917-19; Visit. Phys., Parkland Hosp., Dallas; Assoc. Prof. of Med., Baylor Univ., Dallas; Assoc. Phys., Baylor 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-October, 1925; Chief of Clin. in Roent., Cornell Univ. Med. Sch. Clin., New York, 1925-32; Assoc. Prof. Roent., *ibid.*; Radiologist in Chief, New York Hosp.

CASHMAN, CHARLES J.

D.M.D., Harv., 1928; *Dental Interne*, *P. B. B. H.*, October 1, 1930-August 1, 1931; Asst. Instr. in Extraction and Anesthesia, Harv.; Grad. Asst., Dental Clin., M. G. H., Capt. Dental Corps, U. S. Army.

CASSADAY, PAUL BRINTEN

S.B., Mt. Union Coll., 1930; M.D., Harv., 1934; *Med. H. O.*, *P. B. B. H.*, June 15, 1934-November 1, 1935; *Asst. Res. Phys.*, *ibid.*, November 1, 1935-March 1, 1936; Research Fellow in Med., Harv., 1936; in practice, Nantucket, Mass.

CASTLE, EDWARD B.

B.S., Univ. of Mich., 1927; M.D., *ibid.*, 1929; *Surg. H. O.*, *P. B. B. H.*, July 1, 1929-November 1, 1930; Asst. Res. in Surg. and Acting Res. Surg., Vanderbilt Univ. Hosp., Nashville, Tenn., 1930-31; in practice, Cleveland, Ohio.

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.*, November 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-November 1, 1921; H. O., Boston Lying-In Hosp., 1921-22; Assoc. Prof. Surg., Univ. of Colorado Sch. of Med.; Visit. Surg., Colorado Gen. Hosp.; in practice, Denver, Colo.

CHRISTIAN, JR., THOMAS D.

M.D., Harv., 1923; *Med. H. O.*, B. C. H.; *Asst. Res. Phys.*, *P. B. B. H.*, January 1, 1925-November 15, 1925; *Jr. Assoc. in Med.*, *ibid.*, November 15, 1925-October 1, 1926; in practice, Greensboro, N. C. Died January 12, 1929.

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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-November 1, 1925*; Pathol. H. O., B. C. H., November 1, 1925-January 1, 1926; in practice, Oshkosh, Wis., 1926-31; Asst. Res. Surg., Lakeside Hosp., 1931-32; in practice, Oshkosh, Wis.

CLAUSER, WILLIAM J.

A.B., DePauw Univ., 1929; B.S., Indiana Univ., 1932; M.D., *ibid.*, 1934; Interne, Cleveland City Hosp., 1934-35; Med. H. O., Albert Merritt Billings Hosp., Univ. of Chicago Clinics, 1935; *Med. H. O., P. B. B. H., October 15, 1935-November 1, 1936*; Asst. Phys., George F. Baker Clin., N. E. Deaconess Hosp., Boston.

CLAY, CHARLES L.

B.S., Dart., 1919; M.D., Columbia Univ., Coll. of Phys. and Surgs., 1921; Interne, Lawrence General Hosp., 1921-22; Asst. Phys., Danvers State Hosp., 1922-28; *Second Asst. Supt., P. B. B. H., January 15, 1928-July 1, 1930*; *First Asst. Supt., ibid., July 1, 1930-March 5, 1934*; Med. Director, Long Island Hosp., Boston.

CLIFFORD, MILTON HENRY

A.B., Harv., 1927; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H., 1931-33*; Asst. in Med., M. G. H., O. P. D.; Asst. Phys., Long Island Hosp.; Asst. in Med., Harv.

CLIFFORD, RANDALL

A.B., Harv., 1912; M.D., *ibid.*, 1917; Sr. Grade, U. S. Navy Med. Corps; Visit. Phys., Prendergast Preventorium, 1923-24; Asst. Phys., Channing Home, 1924-29; Asst. to Out-Patients, M. G. H., 1923-29; Assoc. in Med., M. G. H., 1929-31; Asst. in Med., Harv., 1929-34; *Assoc. in Med., P. B. B. H., 1931-35*; in practice, Boston, Mass.

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); First 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; Visit. Phys. for Neurol., B. C. H., 1925-34; Assoc. Prof. Neuropathol., Harv., 1926; Bullard Prof. Neuropathol., *ibid.*; Psychiatrist-in-Chief, M. G. H.

COCHRAN, H. WALTON

B.A., Univ. of Texas, 1924; M.D., Johns Hopkins, 1928; *Surg. H. O., P. B. B. H., January 1, 1929-May 1, 1930*; Jr. Fellow in Surg., Presbyterian Hosp., New York; Fellow in Surg., *ibid.*; Instr. in Surg., College of Phys. and Surg., New York; Asst. Attend. Surg., Parkland Hosp., Dallas, Texas.

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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., September 1, 1925-September 1, 1926*; Acting Director, Pathological Laboratories, Montreal Gen. Hosp. (leave of absence from Harvard, 1926-27); Assoc. Prof. Pathol. and Ex. Head, Dept. of Pathol., Univ. of Calif. Med. Sch., 1928-30; Prof. Pathol., *ibid.*; Pathol., Univ. California Hosp.

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*; Second Asst. in Pathol., B. C. H., 1915-16; First Asst. in Pathol., *ibid.*, 1916-17; Pathol., Long Island Hosp., Boston, 1917-21; Instr. in Pathol., Harv., 1917-21; Prof. of Pathol., Med. Coll. of Va., Richmond, Va., 1921-24; Assoc. Director, Wm. H. Singer Mem. Research Lab., Pittsburgh, Pa., 1925-26; Pathol., N. Y. Post Grad. Med. Sch. 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, N. Y.

COULTER, A. BARKLIE

A.B., Catholic Univ. of America, 1918; M.D., Johns Hopkins, 1924; Asst., Trudeau Sanatorium, Saranac, 1924-25; Res. H. O., Royal Victoria Hosp., Montreal, 1925-26; *Jr. Assoc. in Med., P. B. B. H., October 1, 1926-September 1, 1927*; Head, Dept. of Med., Gallinger Municipal Hosp., Washington, D. C., 1930-31; Director, Bureau for Tuberculosis, Health Dept., Washington, D. C.; 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; LL.D., St. John's College, Annapolis, Md., 1932; 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-August 14, 1913*; *Pathol., ibid., August 14, 1913-December 1, 1916 (granted leave of absence from November 9-December 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. *Died May 27, 1933.*

COX, WILLIAM V.

A.B., Univ. of Mich., 1921; M.D., Harv., 1925; H. O., Lakeside Hosp., 1925-26; Asst. Res., *ibid.*, 1926-28; Crile Fellow in Surg.,

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Western Reserve Univ., 1928-29; *Asst. Res. Surg., P. B. B. H., July 15, 1929-January 6, 1930*; Res. Surg., Lakeside Hosp., January, 1930-July, 1931; Instr. in Surg., Western Reserve Univ., 1931-32; Asst. Surg., Lakeside Hosp., 1931-32; Asst. Surg., Disp., *ibid.*, 1931-32; Instr. in Surg., Harv.; *Jr. Assoc. in Surg., P. B. B. H., 1932-35*; in practice, Lewiston, Me.

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., November 1, 1921-March 1, 1923*; in practice, Memphis, Tenn.

CROCKETT, EUGENE ANTHONY

Act. Consult. Otologist and Laryngologist, P. B. B. H., June 13, 1918-December 31, 1919. Died June 13, 1932.

CRUMP, GEORGE CURTIS

B.S., Dart., 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., April 1, 1928-August 1, 1929*; Asst. Res. Phys., Trudeau San., Saranac Lake, N. Y., 1929-31; Asst. Phys., Metropolitan Life Ins., Co. San., 1931-33; Pathol., Biltmore Hosp., Asheville, N. C.; in practice, Asheville, N. C.

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-November 1, 1929*; Res. in Neuro-Surg., Memorial Hosp., Richmond, Va.; Asst. Prof. Neurol. Surg., Med. College of Virginia.

CUNNINGHAM, THOMAS DONALD

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

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., November 1, 1924-March 1, 1926*; Assoc. Attend. and Director of Student Lab., Univ. Hosp.; Attend., General and City Hosp., Syracuse; Asst. Prof. Med. and Clin. Pathol., College of Med., Syracuse; in practice, Syracuse, N. Y.

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DAVENPORT, LOWREY F.

B.S., Emory, 1927; M.D., Univ. of Rochester, 1931; *Med. H. O.*, *P. B. B. H.*, July 1, 1931-November 1, 1932; Research Fellow in Med., 1932-33, Asst., 1934-36, Instr. in Med., 1936-37, Harv.; Asst. Supt., Middlesex Co. San., Waltham, Mass.

DAVIDOFF, LEO MAX

Two years pre-med. work, Harv.; M.D., *ibid.*, 1922; Stud. Interne, Boston Psychopathic Hosp., April, 1921-June, 1922; Pediatric Serv., B. C. H., July-November, 1922; Med. Serv., New Haven Hosp., November 1, 1922-November 1, 1923; *Surg. H. O.*, *P. B. B. H.*, March 1, 1924-June 20, 1925; Surg., MacMillan Arctic Expedition, June 20, 1925-October 1, 1925; *Asst. Res. Surg.*, *P. B. B. H.*, November 1, 1925-October 1, 1926; *P. B. B. H. Traveling Fellowship*, 1926-27; Asst. Neuro-Pathol., Psychiatric Inst. of the State of New York, 1927-28; Attend. Neuro-Surg., Beth Israel Hosp., New York City; Attend. Neuro-Surg., N. Y. Neurol. Inst.; Asst. Prof. in Neurol., Coll. of Phys. and Surg., Columbia Univ.

DAVIDSON, LEONARD TOMB

A.B., Oberlin, 1912; M.D., Johns Hopkins, 1919; *Med. H. O.*, *P. B. B. H.*, September 15, 1919-November 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, Coll. Physicians and Surgeons, New York; Asst. Attend. Phys., Babies' Hosp., New York; in practice, New York City.

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-October, 1924; Assoc. Prof. Surg., Northwestern Univ. Med. Sch., 1925-32; Prof. Surg. and Chairman, Div. of Surg., *ibid.*; Attend. Surg., Wesley Mem. Hosp., Passavant Mem. Hosp., Chicago; Consult. Neurol. Surg., Edward Hines, Jr., Mem. Hosp.

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.*, November 1, 1912-November 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-December 31, 1916; Assoc. Phys., M. G. H.; in practice, Boston.

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; Third Asst. Visit. Surg., B. C. H. (Gynecol. Dept.), 1908-09; District Phys., Boston Disp., 1909-12; Asst. Surg., Boston Disp., 1912-14; *Surg.*, *ibid.*, 1914-19; Asst. in Surg., Harv., 1919-21; Instr. in Surg., *ibid.*; Prof. in Clin. Surg., Tufts; *Surg.-in-Chief*, Boston Disp.; *Assoc. in Surg.*, *P. B. B. H.*, 1914-33; Consult. Surg., Mass. State Prison Colony,

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Norfolk, Mass., and Masonic Hosp., Shrewsbury, Mass.; Sr. Visit. Surg., Cambridge Hosp.; Surgeon, Boston Floating Hosp.

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-February, 1918*; First Lieut., M. C., U. S. Army, 1918-19; Assoc. Surg., Mem. Hosp., New York; Assoc. Urol., Fifth Ave. Hosp., New York; Visit. Urol., Reconstruction Hosp., New York; Consult. Urol., Somerset Hosp., New York City; in practice, New York City.

DELARUE, JR., EDWARD A.

B.S., Univ. of Va., 1929; M.D., *ibid.*, 1933; *Med. H. O., P. B. B. H., 1933-35*; Res. Phys., Kings Co. Hosp., Brooklyn, N. Y., 1935-36; Interne, Willard Parker Hosp., N. Y., 1936; in practice, Richmond, Va.

DEROW, HARRY A.

M.B., Boston Univ., 1926; M.D., *ibid.*, 1927; Pathol. H. O., M. G. H., June, 1927-January, 1928; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929*; Teach. Fellow in Med., 1929-30, Asst. in Med., 1930-33, Instr. in Med., Harv.; Res. Phys., 1929-31, Med. Co-ordinator, O. P. D., 1931-33, Assoc. Phys. and Director, O. P. D., Beth Israel Hosp.; in practice, Boston.

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., August 1, 1913-May 1, 1917*; *First Asst. Supt., ibid., May 1, 1917-July 1, 1919*; First Lieut., M. C., U. S. Army, November 5, 1918-December 6, 1918; College Phys. and Prof. of Hygiene, Rutgers Coll., New Brunswick, N. J., July, 1919-July, 1925; Asst. Director, Strong Mem. Hosp., Rochester, N. Y., September, 1925-May, 1930; Supt., Eastern Maine Gen. Hosp., Bangor, Me.

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., 1930-31*; Clin. Instr. in Med., Univ. of Oregon; in practice, Portland, Ore.

DIAL, DONALD EMORY

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., April 1, 1930-August 1, 1931*; Asst. Res. in Surg., Obst. and Gyn., New Haven Hosp., 1931-33; Res. in Orthopedics, *ibid.*

PETER BENT BRIGHAM HOSPITAL

DOCK, WILLIAM

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

DOEGE, PAUL FREDERICK

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

DONALD, DOUGLAS

B.S., Univ. of Mich., 1916; M.D., Harv., 1918; *Med. H. O., P. B. B. H., February 12, 1918-March 1, 1919; Asst. Res. Phys., ibid., March 1-June 16, 1919*; Henry Ford Hosp., 1919-20; Attend. Phys., Receiving Hosp.; Asst. Phys., Harper Hosp.; Consult., Herman Kiefer Hosp.; Prof. Clin. Med., Wayne Univ.; in practice, Detroit, Mich.

DOTT, NORMAN McOMISH

M.B., Ch.B., Edinburgh; F.R.C.S., Edinburgh; *Jr. Assoc. in Surg., P. B. B. H., November, 1923-June, 1924*; Neurol. Surg., Royal Infirmary, Edinburgh and Jordanburn Nerve Hosp., Edinburgh; *Act. Asst. Res. Surg., P. B. B. H., July-August, 1929*; Surg., Royal Hosp. for Sick Children, Edinburgh; Lect. in Neurol. Surg., Edinburgh Univ.

DOTY, EDWIN J.

M.D., Univ. of Mich., 1929; *Med. H. O., P. B. B. H., March 1, 1930-July 1, 1931*; Asst. Phys., Psychopathic Hosp., Ann Arbor, 1931-33; Instr. in Psychiatry, Univ. of Mich. Med. Sch., 1932-33; Asst. Res. Phys., Bloomingdale Hosp., White Plains, N. Y., 1933-35; Asst. in Psychiatry, Univ. of Mich., 1935-36; Res. Phys., Neurol. Inst. of New York, 1936-37; Res. Psychiatrist, Payne Psychiatric Clin., N. Y. Hosp.

DOZIER, PAUL C.

A.B., Univ. of Calif., 1926; M.D., Harv., 1929; *Med. H. O., P. B. B. H., November 1, 1929-March 1, 1931*; Asst. Phys., Boston Psychopathic Hosp., 1931-32; Research Assoc., Neurol. Inst. of N. Y., 1932-36; Rockefeller Foundation Fellow, 1933-36; Asst. Phys., Inst. of Pennsylvania Hosp.; Fellow in Psychiatry, Univ. of Pa.

DREWRY, JR., PATRICK HENRY

M.D., Johns Hopkins, 1932; Med. H. O., Baltimore City Hosp., 1932-33; *Asst. Res. Phys., P. B. B. H., 1933-34*; Director of Labs. and Res. Internist, N. Y. Hosp., Westchester Div., White Plains, N. Y.

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DRINKER, CECIL KENT

B.S., Haverford, 1908; M.D., Univ. of Pa., 1913; S.D., Haverford, 1933; 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-October 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; Asst. Dean, Harv. Sch. Public Health, 1924-35; Act. Dean, *ibid.*, May 1, 1930-February 1, 1931; Prof. of Physiol., Harv.; Dean, Harv. Sch. of Public Health.

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-September 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.

DRISSEN, EDWARD M.

B. A., Univ. of Wis., 1927; M.D., Harv., 1931; Surg. H. O., Children's Hosp., Boston, 1931-32; *Surg. H. O., P. B. B. H., April 1, 1932-August 1, 1933*; Asst. Res. Surg., Louisville City Hosp., 1933-34; Obstet. H. O., B. L. I., Boston, 1934-35; Res. Surg., Louisville City Hosp., 1935-36; Surgeon, Britton Clin., Britton, S. D.

DU MORTIER, JEAN J.

B.A., Columbia, 1927; M.D., Yale, 1931; Substitute Interne, New Haven Hosp., October, 1930-May, 1931; *Surg. H. O., P. B. B. H., October 1, 1931-February 1, 1933*; Asst. Res. Surg. Pathol., New Haven Hosp.; Asst. Res. Surg., *ibid.* Died January 19, 1934.

DUPERTUIS, SAMUEL MILTON

B.S., Harv., 1928; M.D., *ibid.*, 1932; *Surg. H. O., P. B. B. H., October 1, 1932-March 1, 1934*; George Gorham Peters Traveling Fellow, 1934-35; *Asst. Res. Surg., July 1, 1935-November 1, 1936*; Asst. Surg., U. S. Public Health Serv., New York, 1937-38; Res. in Plastic and Reconstructive Surg., Presbyterian Hosp., N. Y.

DURANT, RICHARD C.

B.A., Yale, 1928; M.D., Harv., 1934; *Surg. H. O., P. B. B. H., October 15, 1934-March 1, 1936*; Res. Surg., First Surg. Service, B. C. H., 1936-37; Teaching Fellow in Surg., Tufts, 1936-37; Asst. Res. Surg., Doctors' Hosp., New York, March-December, 1937; Res. Surg., *ibid.*

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*

PETER BENT BRIGHAM HOSPITAL

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

ECKELS, JOHN C.

A.B., Park Coll., 1922; M.D., Harv., 1927; Interne, Lankenau Hosp., Philadelphia, 1928-30; *Asst. Res. Surg.*, *P. B. B. H.*, January 1930-September, 1931; Moseley Trav. Fellow, 1931-32; Asst. in G. U. Surg., Harv.; *Jr. Assoc. in Urol.*, *P. B. B. H.*, 1932-34; in practice, Lisbon, N. H.

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.*, November 1, 1923-March 1, 1925; *H. O.*, *X-ray Dept.*, *ibid.*, March 1-September 1, 1925; Senior Member of Staff in Med., Huntington Mem. Hosp.; Roentgenologist, Pasadena Chest Clin.; Asst. Vis. Phys., Los Angeles Gen. Hosp.; Instr. in Phys. Diagnosis, College of Med. Evangelists; in practice, Pasadena, Calif.

EDWARDS, SUMNER

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

EGLOFF, WILLIAM C.

S.B., Univ. of Chicago, 1923; M.D., *ibid.*, 1927; Interne, St. Luke's Univ. of Chicago, January-July, 1928; *Jr. Assoc. in Med.*, *P. B. B. H.*, September 1, 1928-August 1, 1932; in practice, Mason City, Iowa.

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.*, 1928-34; Asst. Prof. Pathol., Director, Brain Tumor Registry, Yale.

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, Mass., 1920-21; Dept. of Pediatrics, New Haven Hosp., New Haven, Conn., 1921-23; Instr., Yale., 1921-26; Asst. Clin. Prof. Pediatric Dept., Yale, 1926-32; Assoc. Clin. Prof., *ibid.*; Director, Div. of Child Hygiene, U. S. Children's Bureau, Washington, D. C.

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-September 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

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to University Hospitals; Surg.-in-Chief, Henrietta Egleston Hosp. for Children, Atlanta, Ga.

ENGELBACH, FRIEDRICH

A.B., Illinois College, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., July 1, 1928-November 1, 1929*; Instr. in Dept. of Internal Med., Univ. of Mich., 1930-32; in practice, Jacksonville, Ill.

ESCAMILLA, ROBERTO FRANCISCO

A.B., Univ. of Cal., 1927; M.D., Harv., 1931; *Med. H. O., P. B. B. H., November 1, 1931-March 1, 1933*; Asst. Visit. Pathol., San Francisco Hosp., 1933; Asst. Res. Phys., Univ. of Calif. Hosp., 1933-34; Asst. in Med., 1934-36; Instr. in Med., Univ. of Calif.; in practice, San Francisco, Calif.

ETHRIDGE, CLAYTON BERNARD

M.D., Univ. of Va., 1933; *Med. H. O., P. B. B. H., July 1933-November 1934*; Fellow in Med., Harv., 1934-35; *Asst. Res. Phys., P. B. B. H., 1935-36*; Clin. Instr. in Med., George Washington Univ.; Jr. Assoc. in Med., Garfield Mem. Hosp.; in practice, Washington, D. C.

EVANS, JAMES A.

A.B., Univ. of Wis., 1917; M.D., Harv., 1920; Med. Interne, Barnes Hosp., St. Louis; Group Practice, one year; St. Frances Hosp., La Crosse, Wis.; June, 1922, holder of Scholarship in France under Professors Gilbert and Widal and Doctor Bensaude; *Asst. Res. Phys., P. B. B. H., July 10, 1923-July 1, 1924*; Asst. Preceptor in Med., Univ. of Wis. Med. Sch.; Mem., Central Soc. for Clin. Research; in practice, La Crosse, Wis.

EVANS, WILLIAM

A.B., Williams, 1926; M.D., Johns Hopkins, 1930; *Med. H. O., P. B. B. H., July 1, 1930-February 19, 1931, and October 1, 1931-July 1, 1932*; Vol. Asst., Med. Clin., Wurzburg, October, 1932-May, 1933; Research Fellow in Med., Harv., 1933-34; *Vol. Grad. Asst., P. B. B. H., 1933-34*; *Asst. Res. in Med., P. B. B. H., September, 1934-June, 1936*; in practice of Roentgenology, Harper Hosp. and U. S. Marine Hosp., Detroit, Mich.

FALK, EMIL A.

A.B., Univ. of Minn., 1921; M.D., Harv., 1925; *Med. H. O., P. B. B. H., July 1, 1925-November 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, 1929; Instr., Clin. Med., Cornell Univ.; Phys., O. P. D., New York 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, Minn., 1927-29; (on leave of absence, 1927); Surg. Res., St. Vincent Hosp., Worcester, 1927; Surg., *ibid.*

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FALLON, LOUIS

M.D., Univ. of Pa., 1916; F.A.C.S.; *Surg. H. O., P. B. B. H., July 1, 1916-November 15, 1916*; M. C., U. S. Army, 1918-19; Capt. with Base Hosp. 51 and 69 and Gen. Hosp. 31, Carlisle, Pa.; Consult. Surg., National Soldiers' Home, Togus; in practice, Augusta, Me. *Died January 8, 1937.*

FARBER, SIDNEY

B.S., Univ. of Buffalo, 1923; M.D., Harv., 1927; *H. O., Pathol., P. B. B. H., January 1-September 1, 1927*; Res. Pathol., Children's Hosp., September 1, 1927-September 1, 1928; Guest Asst., Univ. of Munich Pathol. Inst., 1928-29; Instr. in Pathol., Harv.; Asst. Pathol., Children's Hosp., 1930-31; Pathol., *ibid.*; Assoc. in Pathol., Harv.; Moseley Trav. Fellow, Harv., 1935-36.

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, Ga., 1928-29; Asst. in Urol. to Dr. Montague Boyd, Atlanta, Ga., 1929-30; Res. in Urol., Grady Hosp., Atlanta, Ga., 1930-31; in practice of Urol., St. Petersburg, Fla.

FARNSWORTH, RICHARD WIGGIN

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

FARRELL, JAMES IRVING

A.B., Hamilton, 1925; M.D., Harv., 1929; *Med. H. O., P. B. B. H., July 1, 1929-November 1, 1930*; H. O., Mass. Eye and Ear Infirmary, 1930-32; Ophthal. Surg., Faxton Hosp., Utica Gen. Hosp. and Utica Free Disp.; Consult. Ophthalmologist, Oneida Co. Tbc. Hosp.; in practice, Utica, N. Y.

FEENEY, NEIL

B.A., M.D., McGill Med. School, 1927; Interne, Montreal Gen. Hosp.; *Asst. Res. Phys., P. B. B. H., September 1, 1929-August 1, 1930*; Demonstr. in Med., McGill Med. Sch.; Assoc. in Med., Montreal Gen. Hosp.; in practice, Montreal, Can.

FENDER, FREDERICK ALLEN

A.B., Univ. of Calif., 1924; M.D., Harv., 1929; Med. Officer, *U. S. S. Nantucket*, May-October, 1929; *Surg. H. O., P. B. B. H., October 1, 1929-February 1, 1931*; Res. Neuro-Surg., B. C. H., 1931-32; Abner Perry Hard Fellow Surg. Research, and Asst. in Surg., Rochester School of Med. and Dentistry, 1933-34; Rockefeller Fellow in Neurosurg. and Neurophysiol., Stanford Univ. Med. Sch., 1934-36; Clin. Instr. in Surg., *ibid.*

FETNER, L. M.

M.D., Med. Col. of Va., 1915; *H. O. Roent., P. B. B. H., October 1, 1926-October 1, 1927*; *Asst. Res. Roent., ibid., 1927-28*; in practice, Charlotte, N. C.

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FISHBACK, FRED C.

A.B., Harv., 1919; M.S., Surg., Univ. of Minn., 1928; M.D., Harv., 1922; H. O., St. Francis Hosp., Jersey City, N. J.; *Pathol. H. O., P. B. B. H., May 15, 1923-February 1, 1924*; one year at Woman's Hosp., New York City; N. Y. Lying-In Hosp., 1925; Fellow in Surg., Mayo Clin., Rochester, Minn., 1925-28; Prof. Clin. Surg., Georgetown Univ. Med. Sch., 1930-34; 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-January 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, 1922-26; Asst. Attend. Phys., Presbyterian Hosp., O.P.D., New York, 1925-28; Admitting Phys., Hosp. for Ruptured and Crippled, New York, 1927-32; Asst. Attend. Phys., City Hosp., N. Y.; in practice, New York City.

FITZHUGH, GREENE S.

B.S., Univ. of Illinois, 1921; M.D., Harv., 1927; *Med. H. O., P. B. B. H., July 1, 1927-November 1, 1928*; *Jr. Assoc. in Med., ibid., November 1, 1928-September 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, eight months; Capt., M. C., U. S. Army; Asst. Res. Surg., San Francisco Hosp., 1919; *Asst. Res. Surg., P. B. B. H., December 20, 1919-February 1, 1921*; Assoc. Prof., Univ. of Cal.; Visit. Neuro-Surg., St. Luke's, Mt. Zion, and San Francisco Hospitals; in practice, San Francisco, Calif.

FLEMING, LEROY NEWTON

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

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*; Asst. Prof. of Urol., Univ. of Minn. Med. Sch.; Chief Urologist, Ancker Hosp., St. Paul, Minn.; Visit. Genitourinary Surg., Miller Hosp.; in practice, St. Paul, Minn.

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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. Died October 25, 1934.*

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-November 1, 1913*; Phys. for Men, Infirmary, Univ. of Cal., Berkeley, Calif., 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, Conn.; Research Work, Neuropathol., Harv.; Research Fellow Neuropathol., *ibid.*; Assoc. in Neuropathol., *ibid.*

FORT, JR., LYNN

B.S., Univ. of Ga., 1921; M.D., Emory Univ., 1925; Interne, Cincinnati Gen. Hosp., July, 1925-February, 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*; First 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., two months, 1922; *Surg. H. O., P. B. B. H., July 1, 1923-November 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.*

FREEMAN, ALEX R.

M.D., Emory, 1929; Interne, Wesley Mem. Hosp., Atlanta, Ga., 1929-30; *Asst. Res. Phys., P. B. B. H., August 1, 1930-July 1, 1932*; Asst. Plantation Phys., Estates of Central Aguirre, Porto Rico, 1932-34; in practice, Albany, Ga.

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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; Jr. Visit. Phys., for Neurol., B. C. H., 1927-29; Research Fellow, Thorndike Mem. Lab., B. C. H., 1927-30; Asst. Vis. Phys. for Neurol., *ibid.*; in charge, Cerebrospinal Fluid Lab., B. C. H.; Asst. Prof. Neuropathol., Harv.; Chief of Neurol. Labs., B. C. H.; Assoc. in Psychiatry and in charge of Psychiatric Div., O. P. D., M. G. H., 1934-35; Director of Med. Div., Josiah Macy Jr. Foundation, New York.

FREMONT-SMITH, MAURICE

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

FRIEDLANDER, RICHARD DUFFICY

A.B., Univ. Calif., 1926; A.M., *ibid.*, 1928; M.D., *ibid.*, 1930; Research Asst., George Williams Hooper Foundation for Med. Research, San Francisco, 1927; Interne, Univ. Calif. Hosp., 1930-31; Asst. Res. in Med., *ibid.*, 1931-32; Research Assoc., George Williams Hooper Foundation for Med. Research, 1931-32; *Asst. Res. Phys., P. B. B. H., 1932-34*; Res. in Med., Univ. Calif. Hosp., 1934-35; Instr. in Med., Univ. Calif. Med. Sch.; in practice, San Francisco, Calif.

FULTON, JOHN FARQUHAR

B.S., Harv., 1921; B.A., Oxford (England), 1923, M.A., D.Phil., 1925; M.D., Harv., 1927; hon. M.A., Yale, 1929; Christopher Welch Scholar, and Demonstrator Physiology, Oxford, 1923-25; awarded Warren Triennial Prize, M. G. H., 1925; *Junior Assoc. Neurological Surgery, P. B. B. H., 1928*; Fellow, Magdalen College, Oxford, 1928-30; Prof. Physiology, Yale School of Medicine, 1929-30; Chairman, Univ. Dept. Physiology, Yale, 1931-34; Assoc. Fellow, Pierson Coll., Yale, 1933-; Co-chairman, Univ. Dept. Physiological Sciences, 1934-36; Chairman, 1936-; Examiner, Div. Physiology, National Board of Medical Examiners, 1934-35; Sterling Prof. 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, Ind.

GAISER, DAVID WESLEY

B.S., Whitman, 1924; M.D., Harv., 1931; *Surg. H. O., P. B. B. H., 1931-33*; *Pathol. H. O., New Haven Hosp., 1933-34*; Asst. Res. Surg., *ibid.*, 1934-36; in practice, Spokane, Wash.

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GERMAN, WILLIAM J.

A.B., Univ. Calif., 1922; M.A., *ibid.*, 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., July 1, 1926-November 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., 1929-30; Instr. in Surg., *ibid.*, 1930-32; Res. in Surg., New Haven Hosp., 1930-31; Asst. Prof. Surg., Yale Univ.; Assoc. Surg., New Haven Hosp.

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., January 1-November 1, 1925*; Asst. Visit. Urologist, Presbyterian Hosp., New York.

GLENDY, ROBERT EARLE

B.S., Va. Military Inst., 1925; M.D., Univ. of Va., 1931; *Med. H. O., P. B. B. H., 1931-33*; Asst. Phys., Middlesex Co. San., 1933; Asst. Res. Phys., 1933-34, Dalton Scholar in Med., 1934-35, Research Fellow, Cardiac Lab., 1935-36, Mass. Gen. Hosp.; in practice, Boston.

GLENN, FRANK

M.D., Washington Univ., 1927; Med. Service, Strong Mem. Hosp., July, 1927-July, 1928; *Surg. H. O., P. B. B. H., January 1, 1929-May 1, 1930*; *Asst. Res. Surg., ibid., May 1, 1930-April 15, 1931*; *Interim Res. Surg., ibid., July 13, 1931-October 1, 1931*; George Gorham Peters Trav. Fellow, 1931-32; First Asst. Res. Surg., N. Y. Hosp., 1932-33; Asst. in Surg., Cornell, 1932-33; Res. Surg., N. Y. Hosp., 1933-35; Instr. in Surg., Cornell Med. Coll., 1933-35; Asst. Attend. Surg., Research Fellow, N. Y. Hosp.; Instr. in Surg., Cornell Med. Coll., 1934-36; Asst. Attend. Surg., N. Y. Hosp.; Assoc. in Surg., Cornell Med. College.

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., September 1, 1912-September 1, 1915*; Asst. in Surg., Harv., 1912-15; Assoc. in Surg., Johns Hopkins, 1915-18; Assoc. Prof. of Surg., *ibid.*, 1918-19; Prof. of Surg. and Surg.-in-Chief, Long Island Coll. Hosp., Brooklyn, N. Y.; 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*; Director, Dept. of Radiology, Presbyterian Hosp., N. Y.; Prof. of Radiology, Columbia Univ.

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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., December 12, 1912-December 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., Boston Dispensary, N. E. Baptist Hosp., N. E. Deaconess Hosp.; Chief, Med. Staff, Chelsea Mem. Hosp.; in practice, Boston. *Died, April 17, 1935.*

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., September 1, 1915-October 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., February 1-August 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., Nashville, Tenn.

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., September 15, 1921-August 1, 1922*; *Res. Phys., ibid., August 1, 1922-September 1, 1925*; Assoc. Prof. Med., Jefferson Med. Coll.; Asst. Phys., Pennsylvania Hosp.; Visit. Phys., White Haven San.; Consult. Phys., Frederick Douglass Hosp.; Med. Director and Phys. in charge, Dept. for Diseases of Chest, Jefferson Hosp., Philadelphia; Asst. Phys., *ibid.*; 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, Va.

GRANT, SAMUEL BECKER

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

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*; Instr. Med. Nursing, Methodist Hosp., Houston, Texas; in practice, Houston, Texas.

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GRAVES, ROGER COLGATE

A.B., Syracuse Univ., 1913; M.D., *ibid.*, 1918; *Surg. H. O., P. B. B. H., August 15, 1918-October 19, 1919*; Asst. Res. Surg., New Haven Hosp., New Haven, Conn., 1919-20; *Asst. Res. Surg., P. B. B. H., July 15, 1920-August 1, 1921*; *Assoc. in Surg., ibid., September 1, 1921-April, 1923*; Cabot Fellow, Harv., in charge of Lab. of Surg. Research, September 1, 1921-September 1, 1922; Urologist, Carney Hosp.; Genito-Urinary Surg., Pondville State Hosp. for Cancer; Assoc. Consult. Urologist, Brockton Hosp.; Consult. Urol., Quincy Hosp., Lakeville State San., Choate Mem. Hosp., Woburn, Westfield San., Cancer Unit; Consult., G. U. Dept. (Tumor Clin.), Boston Disp.; Assoc. Staff, Palmer Mem. Hosp.; Clin. Prof. Urol., Tufts; in practice, Boston.

GRAY, CHARLES M.

A.B., Ohio Wesleyan Univ., 1926; M.D., Johns Hopkins, 1930; *Surg. H. O., P. B. B. H., January 1, 1931-May 1, 1932*.

GRAY, HORACE

A.B., Harv., 1909; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., November 1, 1914-March 1, 1916*; Inst. for Juv. Research, Chicago, Ill., 1926-29; Clin. Prof. Med., Stanford Univ., San Francisco, Calif.

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., October 1, 1924-January 15, 1925*; Fellow in Surg., Mayo Foundation, 1925-29; Staff Surg., St. Joseph's Hosp. and Epworth Hosp., South Bend, Ind.; in practice, South Bend, Ind.

GREENE, JAMES A.

M.D., Harv., 1925; *Med. H. O., P. B. B. H., November, 1925-March, 1926*; in practice, Dallas, Texas, 1926-28; Instr. in Med., Univ. of Mich., 1928-30; Instr. of Int. Med., Univ. of Indiana, 1930-32; Assoc. in Med., Univ. of Iowa, 1933-35; Asst. Prof. Med., Univ. Iowa, Iowa City, Iowa.

GREENE, THEODORE C.

A.B., Harv., 1920; M.D., *ibid.*, 1924; Asst. in Pathol., Johns Hopkins, September, 1924-January, 1925; *Surg. H. O., P. B. B. H., March 1, 1925-July 1, 1926*; Asst. in Clin. Neurol., Peiping Union Med. Coll., September 15, 1929-May 15, 1930; Surg., Douw Hosp., Presbyterian Mission, Peiping, China, 1927-34; Roentgenologist, University Hosp., Cheeloo Univ., Tsinan, Shantung, 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., October 1, 1919-April 1, 1920*; *Med. H. O., ibid., April 1, 1920-July 1, 1921*;

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May Fellow in Med. Research, Johns Hopkins; Asst. in Med., *ibid.*, 1921-23; Jr. Attend. Phys., Montreal Gen. Hosp.; in practice, Montreal, P. Q., Canada.

GREY, ERNEST

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

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., July 1, 1930-September 1, 1931; Res. Phys., ibid., September 1, 1931-September 1, 1933;* Fellow in Pathol., Cornell Univ., 1933-34; Member, Rockefeller Foundation Investigating Tuberculosis, Clin. and Epidemiological, New York City; Asst. Attend. Phys., N. Y. Hosp.

HAIGHT, CAMERON

A.B., Univ. of Calif., 1923; M.D., Harv., 1926; *Surg. H. O., P. B. B. H., November 1, 1926-March 1, 1928;* Asst. Res. Surg., New Haven Hosp., 1928-31; Instr. in Surg., Univ. of Mich., 1931-34; Asst. Prof. Surg., *ibid.*

HALE, WORTH

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

HALL, DONALD T.

B.S., Univ. of Wash., 1931; M.D., Harv., 1935; *Surg. H. O., P. B. B. H., June 15, 1935-November 1, 1936;* Surgeon aboard the sloop *Yankee* on a cruise around the world.

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., April 14, 1921-September 24, 1931;* Research Fellow, Thorndike Mem., B. C. H.; Jr. Visit. Phys., *ibid.*; Asst. in Med., Harv.; in practice, Boston, Mass.

HALLARAN, WILLIAM RICHARD

B.S., College of Wooster, Wooster, Ohio, 1925; M.D., Western Reserve, 1932; *Med. H. O., P. B. B. H., July 1, 1932-November 1, 1933;* Asst. Res. in Med., Lakeside, 1933-35; Demonst. in Med., Western Reserve; Asst. Phys., Disp., Lakeside Hosp.; in practice, Cleveland, Ohio.

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HALLER, DAVID ALEXANDER

A.B., Hampden-Sidney, 1908; M.D., Columbia, 1913; *Med. H. O.*, *P. B. B. H.*, November 1, 1913-March 1, 1915; *Asst. Res. Phys.*, *ibid.*, March 1, 1915-October 1, 1916; *Res. Phys.*, *ibid.*, October 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, N. Y., 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.

HAMILTON, C. CARTER

M.D., Univ. Iowa, 1923; Rotating Interne, Miller Hosp., St. Paul, 1923-24; General practice, Iowa, 1924-32; *H. O.*, *Roent.*, *P. B. B. H.*, 1932-33; *Asst. Res. in Roent.*, *ibid.*, 1933-34; Roentgenologist, Memorial Hosp., Albany, 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.*, September 15, 1921-September 15, 1923; Pathol., Iowa Univ. Hosp.; Pathol., Columbia Hosp., Milwaukee.

HARBIN, MAXWELL

B.S., Univ. of Georgia, 1916; M.D., Harv., 1920; *Surg. H. O.*, *P. B. B. H.*, November 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-November 1, 1929; in practice, Rome, Ga.

HARE, HUGH F.

M.D., Harv., 1928; Interne, Univ. Hosp., Ann Arbor, Mich., 1928-30; *H. O.*, *Roent.*, *P. B. B. H.*, July 1, 1930-July 1, 1931; *Asst. Res. Roent.*, *ibid.*, July 1, 1931-October 1, 1932; Radiologist, Lahey Clin., Boston; Roentgenologist, Middlesex Co. San., Waltham; Assoc. in *Roent.*, *ibid.*

HARRISON, TINSLEY RANDOLPH

A.B., Univ. of Mich., 1919; M.D., Johns Hopkins, 1922; *Med. H. O.*, *P. B. B. H.*, November 1, 1922-March 1, 1924; *Asst. Res. Phys.*, *ibid.*, March 1-September 1, 1924; Asst. in Med., Johns Hopkins, 1925-26; *Res. Phys.*, Vanderbilt Univ. Hosp., Nashville, Tenn., 1926-27; Instr. in Med., Vanderbilt Univ., 1926-27 (leave of absence, 1927-28); Asst. Prof. Med., *ibid.*, 1928-32; Assoc. Prof. of Med., *ibid.*

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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; Asst. Res. Phys., Vanderbilt Univ. Hosp., 1930-32; in practice, Birmingham, Ala.

HARVEY, SAMUEL CLARK

Ph.B., Yale, 1907; M.D., *ibid.*, 1911; Sc.D., Western Reserve, 1931; Alonzo Clark Fellow, Columbia, 1911-12; Instr. in Pathol., *ibid.*, 1912-13; Asst. Res. Phys., Loomis Sanitarium, Loomis, N. Y., 1913-14; *Surg. H. O.*, *P. B. B. H.*, November 1, 1914-November 1, 1915; Arthur Tracy Cabot Fellow, in charge of Lab. of Surg. Research, Harv., 1915-16; *Asst. Res. Surg.*, *P. B. B. H.*, November 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; Consult. Surg., State of Conn. Tbc. Comm.; Surgeon-in-Chief, New Haven Hosp. and New Haven Disp.; Prof. of Surg., Yale.

HASS, GEORGE MARVIN

M.D., Harv., 1929; *Pathol. H. O.*, *P. B. B. H.*, January 1, 1930-January 1, 1931; Asst. Res. Pathol., Children's Hosp., January-September, 1931; Res. Pathol., *ibid.*, 1931-32; Instr. in Pathol., Harv.; *Res. Pathol.*, *P. B. B. H.*, 1932-34; Society of Fellows, Harv., 1934-37.

HATCH, FLOYD FROST

A.B., Univ. of Utah, 1912; M.D., Harv., 1914; *Med. H. O.*, *P. B. B. H.*, March 1, 1914-January 4, 1915 (granted leave of absence from January 4-February 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; First 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; Sr. Visit. Surg., Latter Day Saints' Hosp.; 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., one year; Stud., Rush Med. Sch. and Univ. of Philippines, one year; M.D., Harv., 1915; H. O., Augustana Hosp., Chicago, 1915-16; *Med. H. O.*, *P. B. B. H.*, January 11, 1916-March 1, 1917; H. O., Augustana Hosp., 1917-18; First 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, 1922-23; in practice, Chicago, 1922-23; Attend. Surg., St. John's, Burge Deaconess and Springfield Baptist Hospitals; in practice, Springfield, Mo.

HEAD, JEROME R.

M.D., Harv., 1922; *Surg. H. O.*, *P. B. B. H.*, July 1, 1922-November 1, 1923; Surg. Pathol., Mayo Clin., Rochester, Minn., 1924; Res.

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Surg., State of Wis. Gen. Hosp., Madison, 1924-26; Assoc. in Surg., Northwestern Univ.; in practice, Chicago, Ill.

HENDERSON, WILLIAM ROBERT

M.B., Ch.B., Edinburgh, 1926; House Surg., Royal Infirmary, Edinburgh, 1926-27; House Surg., Sick Children's Hosp., Edinburgh, 1927; Rockefeller Fellow, British Research Council; *Asst. Res. Surg., P. B. B. H., May 1, 1930-March 15, 1931*; Clin. Asst. in Neuro-Surgery, Edinburgh Royal Infirm., 1931-33; House Surgeon, National Hosp., London.

HERRICK, THEODORE POMEROY

A.B., Yale, 1915; M.D., Harv., 1919; *Med. H. O., P. B. B. H., December 26, 1918-January 1, 1920*; Med. H. O., Children's Hosp., Boston, 1920; H. O., Infants' Hosp., Boston, 1921; Res. Pediatrician, Rainbow Hosp., Cleveland, Ohio, 1921-24; Asst. Visit. Pediatrician, St. Vincent's Charity Hosp., Cleveland, Ohio, 1921-28; Asst. Visit. Pediatrician, St. Luke's Hosp., Cleveland, Ohio, 1922-23, and since 1928; Licentiate, Am. Bd. Pediatrics, 1936; in practice, Cleveland, Ohio.

HERRING, JAMES B.

M.D., Univ. of Pa., 1922; Interne, Southern Pacific Hosp., 1922-23; Private practice, San Francisco, 1923-30; *Asst. Res. Surg., P. B. B. H., September 1, 1931-September 1, 1932*; Member of Staff, St. Luke's Hosp., San Francisco.

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., October 1, 1918-October 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. and Assoc. Prof. of Med., Tulane Univ., New Orleans, La., 1928-31; Visit. Phys. and Director, Heart Station, Charity Hosp., New Orleans, 1928-31; Prof. of Clin. Med., Univ. of Texas, Galveston, Texas; in practice, Galveston, Tex.

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., Clinique Chirurgicale A (Prof. Leriche) Univ. de Strasbourg, Strasbourg, France, 1930-31; Asst. Chirurgische Universitats Klinik (Prof. P. Clairmont) Univ. of Zurich, Switzerland, 1931-32; Asst. Prof. of Surg., Univ. of Cincinnati.

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HERTIG, ARTHUR T.

B.S., Univ. of Minn., 1928; M.D., Harv., 1930; *Pathol. H. O., P. B. B. H., July 1, 1930-July 1, 1931*; *Pathol., B. L. I., 1931-32*; *Res. Pathol., Children's Hosp., 1932-33*; National Research Fellow, Carnegie Lab. of Embryology, 1933-34; *Asst. Pathol., B. L. I., 1934-36*; *H. O., ibid., 1936-37*; *Asst. Res. Phys., ibid., 1937*; *Res. Phys., ibid.*

HIGBEE, DANIEL RIGGS

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

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-November 1, 1922*; Parke Davis & Co., Detroit, Mich., 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., 1929-32; Physiologist, Exp. Research Labs., Burroughs Wellcome Co., Tuckahoe, N. Y.

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., November 1, 1916-March 1, 1917*; *Asst. Res. Surg., ibid., March 1-June 22, 1917*; First 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.*

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-August 1, 1930*; *Asst. Res., Surg., ibid., October 1, 1930-September 7, 1931*; *Res., Neuro-Surg., Royal Victoria Hosp.*; Chief, Dept., Neuro-Surg., St.-Luc Hosp., Montreal; Consult. in Neuro-Surg., St. Mary's Hosp., Montreal.

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-September 1, 1923*; *Res. Surg., ibid., September 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-December, 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, September-December, 1930.*

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HORRAX, GILBERT

A.B., Williams, 1909; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., July 1, 1913-November 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; Asst. Prof. of Surg., and Secretary, Dept. of Surg., Harv., 1925-32; Consult. Neurol. Surg., Children's Hosp., Boston, 1926-31; Consult. Neurol. Surg., N. E. Deaconess Hosp., 1926-32; *Assoc. in Neurol. Surg., P. B. B. H., October, 1919-March, 1928*; *Sr. Assoc. in Neurol. Surg., ibid., 1928-32*; in charge of Neuro-Surgery, The Lahey Clinic, Boston.

HORSFALL, JR., FRANK L.

A.B., Univ. Wash., 1927; M.D., C. M., McGill, 1932; *Pathol. H. O., P. B. B. H., 1932-33*; Res. Phys., Royal Victoria Hosp., 1933-34; Asst. Res. Phys., Rockefeller Inst. Hosp., 1934-36; Res. Phys., *ibid.*, 1936-37; Member, International Health Div., Rockefeller Foundation.

HOUCK, GEORGE H.

A.B., Univ. of Oregon, 1923; M.D., Harv., 1927; *Med. H. O., P. B. B. H., November 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., San Francisco, Calif., 1930-31; Jr. Visit. Phys., Los Angeles General Hosp.; Assoc. Staff, St. Vincent's Hosp., Los Angeles, 1931-32; Exec. Staff, *ibid.*, 1933; Instr., Dept. of Med., Univ. of So. Calif., Los Angeles, 1933-36; Asst. Prof., *ibid.*; in practice, Los Angeles, Calif.

HOUGHTON, JOHN D.

A.B., Harv., 1927; M.D., *ibid.*, 1932; *Pathol. H. O., P. B. B. H., January-July, 1932*; Res. Pathol., B. C. H., February 14-August 14, 1933; Asst. in Pathol., *ibid.*, 1933-35; Instr. in Path. and Bact., Tufts, 1936-37; Asst. Pathol., B. C. H.

HOUSTON, JR., DAVID WALKER

A.B., Princeton, 1912; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., July 1, 1916-November 1, 1917*; *Asst. Res. Surg., ibid., November 1, 1917-February 8, 1918*; First Lieut., M. C., U. S. Army, 1918-19; Attend. Surg., Samaritan Hosp., Troy, N. Y.; in practice, Troy, N. Y.

HOWARD, HERBERT BURR

A.B., Harv., 1881; M.D., *ibid.*, 1884; Asst. Phys., State Infirmary, Tewksbury, Mass., 1884-85; in practice, Idaho Springs, Colo., 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, 1893-1913 (Chairman, 1908-13); Pres., American Hosp. Assoc., 1909-10; Trustee, State Colony for the Insane, Gardner, Mass. *Died March 6, 1923.*

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HOWARD, LAWRENCE

M.D., Wash. Univ., 1928; Surg. Interne, Barnes Hosp., 1928-29; Surg. Pathol. Work, Cleveland Clinic, 1929-30; Fellow in Surg., *ibid.*, 1930-32; *Fellow in Urol., P. B. B. H., August 1, 1932-June 11, 1933*; in practice, Great Falls, Mont.

HUDSON, RICHARD T.

B.S., Univ. of Louisville, 1920; M.D., *ibid.*, 1924; one year rotating internship, Louisville City Hosp.; Asst. Res. Surg., Louisville City Hosp.; *H. O., Roentgenology, P. B. B. H., August 1-October 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, Norton Mem. Infirm., Crippled Children's, Masonic Widows and Orphans Home; Member, Professional Advisory Comm., Kentucky Crippled Children's Commission; Res., Orthopedic Surg., Hosp. for Relief of Ruptured and Crippled, N. Y.; in practice, Louisville, Ky.

HUGGINS, HARRISON D.

Univ. of Oregon Med. School, two years; M.D., Harv., 1926; Substitute H. O., House of Good Samaritan; *Med. H. O., P. B. B. H., November 1, 1926-March 1, 1928*; six months post-grad. work, Vienna, Austria; Clin. Instr. in Otolaryngology and Ophthalmology, Univ. of Oregon; Member of Staff, Multnomah Co. Hosp.; in practice, Hillsboro, Ore.

HUMISTON, HOMER W.

B.S., Univ. of Ill., 1923; M.D., Harv., 1925; *Med. H. O., P. B. B. H., July 1, 1925-November 1, 1926*; Fellow in Surg., Mayo Clin., Rochester, Minn., 1926-29; Clin. Asst. in Urol., Northwestern Univ.; in practice (Urology), Chicago, Ill.

HUMPHREYS, STORER PLUMER

B.A., Norwich Univ., Northfield, Vt., 1928; M.D., Yale, 1932; *Surg. H. O., P. B. B. H., March 1, 1933-July 1, 1934*; Neuro-Surg. Res., M. G. H., 1934-35; Orth. Serv., *ibid.*, 1935-36; Orth. Serv., C. H.; Neuro-Surg. Res., M. G. H., 1936-37; McGill Fellow, Montreal Neurol. Inst.

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., November 1, 1913-March 1, 1915*; Instr. in Research Med., Univ. of Calif., 1915-17; Asst. Clin. Prof. of Med., *ibid.*, 1917-26; Clin. Prof. of Med., Stanford Univ. School of Medicine.

HYDER, PRENTISS L.

A.B., Univ. of Texas, 1929; M.D., Harv., 1933; *Surg. H. O., P. B. B. H., March 1, 1934-July 1, 1935*.

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ILFELD, FREDERIC WILLIAM

A.B., Harv., 1928; M.D., *ibid.*, 1932; *Pathol. H. O., P. B. B. H., July 1, 1932-January 1, 1933*; Rotating and Surg. H. O., Lakeside Hosp., 1933-34; Asst., Dept., Prev. Med., Harv., 1934-35; Orth. H. O., C. H., 1935-36; Orth. H. O., M. G. H., 1936-37; Orth. Res., *ibid.*

INGALLS, THEODORE H.

A.B., Hamilton Coll., 1929; M.D., Harv., 1933; *Med. H. O., P. B. B. H., February 15, 1934-July 1, 1935*; William Hunter Workman Fellow, Harv., and Children's Hosp., 1935-37; Res. in Pediatrics, M. G. H.

INGRAHAM, FRANC DOUGLAS

A.B., Harv., 1922; M.D., *ibid.*, 1925; *Surg. H. O., P. B. B. H., July 1, 1925-November 1, 1926*; Fellow in Surg., Johns Hopkins Univ., November 1, 1926-September 1, 1927; *Asst. Res. Surg., P. B. B. H., September, 1927-September, 1928*; *Res. Surg., ibid., September-October, 1928*; *P. B. B. H. Traveling Fellow in Surg., 1928*; 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., 1919-34*; Consult. Ophthalmologist, Mass. Eye and Ear Infirmary.

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-November 1, 1915*; Capt. and Asst. Surg., Second 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, Ill.

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. Memorial Hosps., 1920; Asst. Phys. to Out-Patients, M. G. H.; Phys., Faulkner Hosp.; in practice, Jamaica Plain, Mass.

JACKSON, HOWARD C.

A.B., Univ. Mich., 1929; M.D., Harv., 1933; *Med. H. O., P. B. B. H., June 15, 1933-November 1, 1934*; Interne in Pathol., Cleveland City Hosp., 1934-35 and Univ. Hospitals, Cleveland, 1935-36; Asst. Res. Surg., Univ. of Mich. Hosp., Ann Arbor, Mich., 1936-37; Res. Surg., *ibid.*

JACKSON, HOWARD L.

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

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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*; First Lieut., M. C., U. S. Army, 1918; *Pathol. H. O., P. B. B. H., January 1-July 1, 1919*; *Res. Pathol., ibid., July 1-October 1, 1919*; Asst. Prof. of Pathol., Univ. of Wisconsin, 1919-20; *Res. Pathol., P. B. B. H., July 1, 1920-September 1, 1921*; Instr. in Pathol., Harv., 1920-21; Pathol., Albany Hosp. and Troy Hosp.; Cyrus Strong Merrill Prof. of Pathol., Union Univ., Albany, N. Y., 1921-34; Member, Nat. Research Council, Med. Div., 1930-33; Research, Pasteur Inst., Paris, under Prof. C. Levaditi, 1931; Attend. Phys. and Pathol., Samaritan Hosp., Troy, N. Y.; Pathol., Mary McClellan Hosp., Cambridge, N. Y., and Cohoes Hosp., Cohoes, N. Y.; Assoc. Prof. Med., Albany Med. Coll.; Attend. Phys., Albany Hosp.; in practice, Troy, N. Y.

JACOBSON, CONRAD

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

JAMESON, CHARLES HAROLD

A.B., Harv., 1916; M.D., *ibid.*, 1919; *Surg. H. O., P. B. B. H., June 15, 1919-November 1, 1920*; Free Hosp. for Women, Brookline, 1920-21; *Asst. Res. Surg., P. B. B. H., February 14-June 15, 1921*; *Asst. Res. Surg., ibid., September 15, 1921-June 21, 1922*; in practice, Rockland, Me.

JANNEY, JAMES CRAIK

A.B., Harv., 1911; M.D., *ibid.*, 1915; *Surg. H. O., P. B. B. H., July 1, 1915-November 1, 1916*; Major, M. C., U. S. Army; H. O., Boston Lying-In Hosp., 1923; Fellow, Am. Coll. Surgs., 1926; First Asst. Obstetrician, Mass. Memorial Hosp.; Asst. Prof. Gynaecology and Instr. in Obstetrics, Boston Univ. Sch. of Med.; in practice, Boston.

JARRETT, PAUL F.

B.A., Univ. Maine, 1932; D.M.D., Harv., 1935; *Dental H. O., P. B. B. H., July 1, 1935-July 1, 1936*; in practice, Stamford, Conn.

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-

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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-November 1, 1916*; *Asst. Res. Surg., ibid., November 1, 1916-March 1, 1917*; Capt., M. C., U. S. Army, 1917-19; in practice, Wausau, Wis.

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; Instr. in Med., Miraj Christian Med. Sch.; Med. Supt., Wanless Tbc. San., Miraj, India.

KANE, JOHN W.

B.S., Univ. of Notre Dame, 1926; M.D., Harv., 1930; *Surg. H. O., P. B. B. H., April 1, 1931-August 1, 1932*; Assoc. Res. Surg. (Neuro-Surg.), 1932-33, Asst. Res. Surg., 1933-34, Res. Surg., 1934-35, Strong Mem. Hosp., Rochester, N. Y.; in practice, Binghamton, N. Y.

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., January 22, 1920-December, 1922*; Prof. of Clin. Oral Surg., Harv.; Visit. Surg., Oral and Plastic Surg., B. C. H.; Surg. for Plastic Operations, Mass. Eye and Ear Infirm.; Consult. Oral Surg., Camb. Hosp.; Mem. of Staff, Consult. Surgeons, Newport Hosp., Newport, R. I.; Consult. Surg., Huntington Mem. Hosp.; Visit. Surg., M. G. H.; Consult. in Oral Surg., Palmer Mem. Hosp.; Member of Staff, N. E. Deaconess Hosp.; Consult. in Oral and Plastic Surg., Symmes Arlington 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., November 15, 1918-March 1, 1920*; City Phys., Buffalo, N. Y., 1920-21; Director, Comm. on Hosps. in Cilicia, 1921-22; Asst. Res., Long Island Hosp., Boston Harbor, 1922-26. *Died May 4, 1930.*

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-December 15, 1917*; Lieut., M. C., U. S. Navy, 1917-19; *Surg. H. O., P. B. B. H., August 13, 1919-November 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.

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of Med., Univ. of Nebraska, 1925-29; Chairman, Dept. of Surg., *ibid.*;
Prof. Neuro-Surg., *ibid.*; in practice, Omaha, Neb.

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., September 1, 1928-July 1, 1929*; Assoc. in Med., Montreal Gen. Hosp.; Demonstr. in Med., McGill Univ.; in practice, Montreal, Canada.

KENT, HAROLD A.

H.D.S., 1919; *Dental Surg., P. B. B. H., 1922-29*; Consult. Dental Surg., *ibid.*, 1929-33; Dental Surg., Forsyth Dental Infirmary; Dental Surg., George F. Baker Clin. and N. E. Deaconess Hosp.; Asst. Prof. Oral Surg., Harv.

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-November 1, 1919*; Res. Surg., New York Post Grad. Hosp., New York City, 1920; Fellow, Mayo Foundation, Rochester, Minn., 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.; First 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.*, 1924-34; Asst. in Med., 1924-26, Asst. Phys., M. G. H.; Visit. Phys., Channing Home; Consult. Phys., Mass. Eye and Ear Infirmary; Instr. in Med., Harv., 1934-36; Assoc. in Med., *ibid.*; Consult. Phys., Middlesex Co. San.; Assoc. Phys., M. G. H.; in practice, Boston.

KING, SAMUEL J.

B.S., Juniata Coll., 1928; M.D., Harv., 1934; *Med. H. O., P. B. B. H., October 15, 1934-March 1, 1936*; Grad. Asst., N. E. Med. Center, 1936; Asst. in Med., Tufts, 1936; Staff, Frisbie Memorial Hosp., Rochester, N. H.; in practice, Farmington, N. H.

KING, WILLIAM ROBERT

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

KINNEY, KENNETH K.

M.D., Univ. of Iowa, 1921; Surg. Interne, one year, Seattle Gen. Hosp.; private practice, three years; H. O., X-Ray Dept., P. B. B. H., *October 1, 1925-April 1, 1926*; *Asst. Res. Roent., April 1-October 1, 1926*; in practice, Willimantic, Conn.

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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-November 1, 1924*; Asst. Res. Med., New Haven Hosp., New Haven, Conn., 1924-25; Assoc. Prof. of Med., Univ. of Louisville; in practice, Louisville, Ky.

KIRK, ESLEY J.

M.D., Univ. of Nebraska, 1926; H. O., Douglas Co. Hosp., Omaha, Neb., 1926-27; *Asst. Res. Phys., P. B. B. H., August, 1927-August, 1928*; *Jr. Assoc. in Med., ibid., August, 1928-July, 1929*; Asst. Prof. of Int. Med., Univ. of Nebraska Med. Coll.; in practice, Omaha, Neb.

KIRKWOOD, ALLAN STEWART

M.D., Univ. and Bellevue Hosp. Med. Coll., New York, 1913; *Assoc. in Med., P. B. B. H., November 1-December 31, 1917*; Major, M. C., U. S. Army; Visit. Neuro-Psychiatrist, Mountainside Hosp., Montclair, N. J.; Director, Neuro-Psychiatric Clin., *ibid.*; Member, Medical Staff, Montclair Board of Health; in practice, Montclair, N. J.

KLUMPP, THEODORE G.

B.S., Princeton, 1934; M.D., Harv., 1928; *Med. H. O., P. B. B. H., March 1, 1929-July 1, 1930*; Asst. Res. Med., Lakeside Hosp., 1930-32; Instr. in Med., Yale, 1933-36; Assoc. Phys., New Haven Hosp., 1932-36; Asst. Clin. Prof. Int. Med., Yale (on leave of absence with U. S. Food and Drug Administration), 1936-37; Chief Med. Officer, U. S. Food and Drug Administration.

KNIES, PHILLIP T.

M.D., Ohio State Univ., 1931; Rotating Interne, Walter Reed General Hosp., 1931-32; Jr. Res. Med., Starling-Loving Univ. Hosp., 1932-33; Sr. Res. in Med., *ibid.*, 1933-34; *Asst. Res. Phys., P. B. B. H., 1934*; Instr. in Med., Ohio State Univ.; Asst. Clin. Prof. Med., *ibid.*; in practice, Columbus, Ohio.

KOEFOD, HILMAR OLAF

B.S., Beloit, 1911; M.D., Harv., 1916; Moseley Traveling Fellowship, *ibid.*, in Europe, summer of 1916; *Med. H. O., P. B. B. H., November 1, 1916-November 1, 1917*; First Lieut., M. C., U. S. Army, 1917-18; Chief of Clin. at Mem. Lab. and Clin., Santa Barbara, Calif., 1918-19; Asst. in Med., Med. Sch., Univ. of Calif., and Asst. to Prof. H. C. Moffit in his private work, 1919; Chief of Med. Dept., Santa Barbara Clin. and Attend. Phys., Cottage Hosp., Santa Barbara, Calif.; in practice, Santa Barbara, Calif.

KOHN, LAWRENCE A.

A.B., Williams, 1914; work in Bacteriol. with Doctor Park, New York, 1914-17; work in Bacteriol. with army in France, 1917-19; First Lieut., San. Corps, 1918-19; M.D., Johns Hopkins, 1923; Med.

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Interne, *ibid.*; *Asst. Res. Phys., P. B. B. H., September 15, 1924-September 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.; in practice, Rochester, N. Y.

KREUTZMANN, HENRY ADOLPH ROBERT

M.D., Univ. Pa., 1916; *Surg. H. O., P. B. B. H., 1917-18*; Lieut., M. C., U. S. Army; Assoc. Chief Urologist, Mt. Zion Hosp.; Chief, Urol. Dept., Franklin Hosp.; Chief Urologist, Chinese Hosp.; in practice, San Francisco, Calif.

LADD, WILLIAM SARGENT

B.S., Amherst, 1910; M.D., Columbia, 1915; *Med. H. O., P. B. B. H., November 1, 1915-March 1, 1917*; Asst. Phys., Presbyterian Hosp., New York, and Instr. in Med., Columbia, 1918-19; First 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, 1924-31; Assoc. Dean, Cornell Univ. Med. Sch., Asst. Prof. Med., Cornell, 1931-32; Asst. Visit. Phys., Second Div., Bellevue Hosp., 1932-33; Assoc. Dean, Cornell Univ. Med. Sch., 1931-36; Attend. Phys., N. Y. Hosp.; Dean, Cornell Med. Coll., New York City; Prof. of Clin. Med., *ibid.*

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 Traveling Fellow, Harv., 1911-13; *Asst. Res. Phys., P. B. B. H., October 1, 1913-October 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. Prof. Surg., Harv.; Visit. Surg., Children's Hosp.; Visit. Surg., Children's Serv., Cambridge Hosp.; in practice, Boston.

LAWRENCE, JOHN H.

M.D., Harv., 1930; *Surg. H. O., P. B. B. H., April 1, 1930-August 1, 1931*; Asst. Res. and Asst. in Med., Univ. of Rochester Med. Sch., 1931-32; Asst. Res. in Med., New Haven Hosp.; Res. Phys., *ibid.*; Instr. in Int. Med., Yale, and Research Assoc., Radiation Lab., Univ. Calif., 1932-37; Asst. Prof. Med. and Research Assoc., *ibid.*

LEGGE, ROBERT F.

M.D., C. M., McGill, 1930; *Surg. H. O., P. B. B. H., January-April, 1931*; Interne, San Francisco Hosp., 1931-32; Asst. Res. Surg., Henry Ford Hosp., 1932-33; Res. Orth. Surg., *ibid.*, 1933-35; Orthopedic H. O., M. G. H., 1935; Orthopedic H. O., Children's Hosp., 1935-36; Asst. Orth. Surg., Univ. Calif.; in practice, Oakland, Calif.

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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, Mo., 1915-16; Asst. in Surg., Washington Univ., 1916-20; First 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.

LEVINE, HAROLD D.

S.B., Harv., 1929; M.D., *ibid.*, 1932; Pathol. Interne, Beth Israel Hosp., 1932-33; *Med. H. O., P. B. B. H., 1933-34*; *Asst. Res. Phys., ibid., July-September, 1934*; Research Fellow in Med., Harv., 1934-35; Sec. of Staff, Franklin Hosp., Franklin, N. H.; Member, Courtesy Staff, Margaret Pillsbury Gen. Hosp., Concord, N. H.; in practice, Bristol, N. H.

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, N. Y., 1916; Supt., Flower Hosp., 1919-20; Capt., M. C., U. S. Army, 1918-19; *Second Asst. Supt., P. B. B. H., April 11, 1921-October 1, 1923*; Supt., Easton Hosp., Easton, Pa., 1923-26; Supt., Burbank Hosp., Fitchburg, 1926-36.

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; Student at Allgemeines Krankenhaus Eppendorf, Hamburg, 1930-31, and Hôpital Lariboisière, Paris, 1931; Hosp. of the Rockefeller Inst., 1932-34; Asst. Attend. Phys., Bellevue Hosp., New York.; Asst. Clin. Prof. Med., New York Univ. Coll. of Med.; in practice, New York City.

LIEB, CLARENCE WILLIAM

A.B., Colorado, 1908; A.M., *ibid.*, 1909; M.D., Harv., 1914; *Pathol. H. O., P. B. B. H., April 1-June 6, 1914 (resigned)*; Med. Director, "The Glen Springs," Watkins, N. Y., 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 Israel Hosp., Boston, 1927-35; Roent., Jewish General Hosp., Montreal.

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LIGHT, RICHARD U.

Ph.B., Yale, 1924; M.D., Univ. of Mich., 1928; *Surg. H. O., P. B. B. H., July 1, 1929-November 1, 1930*; Arthur Tracy Cabot Fellow, Harv.; *Jr. Assoc. in Surg., P. B. B. H., January 5, 1931-March 24, 1932*; *Asst. Res. Surg., ibid., 1932-33*; Asst. in Surg., Yale, 1933-34; Instr. in Surg., *ibid.*, 1934-35; Instr. of Surg., Univ. of Rochester, 1935-36; in practice, Kalamazoo, Mich.

LINDBERG, HOWARD A.

M.D., Northwestern, 1934; Interne, Evanston Hosp., 1934-35; *Asst. Res. Phys., P. B. B. H., January 1, 1936-January 1, 1937*; Fellow in Med., Northwestern Univ.; Instr. in Med., *ibid.*

LOCKE, JR., CHARLES EDWARD

A.B., M.S., Univ. of Calif., 1916; M.D., *ibid.*, 1919; S.D. (*en Chirurgie*), Univ. of Brussels, 1922; Med. and Surg. H. O., Univ. of Calif. Hosp.; *Asst. Res. Surg., P. B. B. H., June 15, 1920-June 1, 1921*; Asst. on Visit. Surg. Staff, Doctor 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 Calif. 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-October 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.; Vol. Asst., Surg. Serv. of Prof. H. Von Haberer, Graz, Austria, October, 1927-February, 1928; Assoc. Surg., Brooklyn Jewish Hosp.; Attend Surg., Brooklyn Jewish Hosp.; Assoc. Surg., King's Co. Hosp.; Asst. Prof. Clin. Surg., L. I. Coll. of Med.; 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-September, 1911; Director, Roentgen. Lab., Klinik Neusser, Vienna, September, 1911-December, 1912; *Roentgenologist, P. B. B. H., January 1, 1913-June 1, 1914* (granted leave of absence from June 1, 1914-December 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 (Professor Ortner), Vienna, 1919-29; Privatdozent f. Innere Medizin, Univ. of Vienna; Ausserordenlich Univ. Prof., *ibid.*; Director of Fourth Med. Div. in Vienna, Austria.

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LYLE, EVELINE BURTON

B.A., Mt. Holyoke Coll., 1906; M.D., Tufts Coll. Med. Sch., 1913; *Act. Assoc. in Med., P. B. B. H., November 1-December 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 for 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.

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. *Died January 9, 1937.*

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, Wash.

MACDONALD, DONALD

B.A., Johns Hopkins, 1922; M.D., *ibid.*, 1926; *Jr. Assoc. in Otolaryngology, P. B. B. H., April 24, 1930-June 12, 1936*; Asst. in Laryngology, Harv., 1935-37; in practice, Boston.

MACMILLAN, STUART FORBES

B.S., Union College, Schenectady, N. Y., 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*; Asst. Surg. and Surg. to O. P. D., Ellis Hosp., Schenectady; in practice, Schenectady, N. Y.

MAHONEY, WILLIAM DEGUTIÉRREZ

A.B., Holy Cross, 1925; M.D., Harv., 1929; *Surg. H. O., P. B. B. H., October 1, 1929-February 1, 1931*; *Asst. Res. Surg., ibid., March 15, 1931-April 1, 1932*; *P. B. B. H. Traveling Fellow in Surg. (Neurological Clinic of Prof. Foerster, Breslau), 1932*; Asst. Res. Surg., N. Y. Hosp.; Asst. in Surg., Cornell, 1932-34; Research Asst. in Neurosurg. and Instr. in Physiol, Yale, 1934-1935; Fellow of XV International Physiological Congress, Leningrad, 1935; Rockefeller Fellow in Neurology (Neurologisches Forschungsinstitut, Professors Foerster and Gagel, Breslau; Clinique Chirurgicale A, Prof. Leriche, Strasbourg; Neurologische Klinik, Prof. Brouwer, Amsterdam; Acting House Surgeon and House Physician, National Hospital Queen Square; Clinical Assistant to Dr. C. P. Symonds, Guy's Hospital, London), 1935-1938; Member, Deutsche Gesellschaft für innere Medizin, 1937; Assistant Professor of Neurology, Vanderbilt and Associate Neurologist, Vanderbilt University Hospital.

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MALLORY, TRACY BURR

M.D., Harv., 1921; *Med. H. O., P. B. B. H.*, 1922-23; Instr. in Bacteriol., Harv., 1924-26; Assoc. in Pathol., *ibid.*; Asst. Prof., *ibid.*; Pathologist, M. G. H., Boston, Mass.

MANN, ALBERT HOWELL

M.D., Tulane Univ., 1926; *Med. H. O., P. B. B. H.*, July 1, 1926-November 1, 1927; in practice, Texarkana, Ark.

MARINUS, CARLETON J.

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

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-November 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, SEARLE BISSET

A.B., Harv., 1912; Stud., Harv., one 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., and Syracuse Mem. Hosp.; in practice, Syracuse, N. Y.

MARQUIS, FRED M.

B.A., Univ. of Iowa, 1927; M.D., *ibid.*, 1931; *Pathol. H. O., P. B. B. H.*, July 1, 1931-January 1, 1932; H. O., Truesdale Hosp., Fall River, January-March, 1932; H. O., Presbyterian Hosp., Chicago, April, 1932-September, 1933; in practice, Waterloo, Iowa.

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.*, September 1, 1921-March 1, 1922; *Asst. Res. Surg., ibid.*, March 1-November 1, 1922; Asst. in Surg., Brussels Univ. Hosp.; Arthur Tracy Cabot Fellow, Harv., 1929-30; *Assoc. in Surg., P. B. B. H.*, January-April, 1930; in practice, Brussels, Belgium.

MARVIN, FRANK WILLIAM

A.B., Harv., 1910; M.D., *ibid.*, 1914; House Pupil, M. G. H., 1914-15; *Surg. H. O., P. B. B. H.*, November 1, 1915-March 1, 1916; Visit. Anesthetist, B. C. H., Newton Hosp., Boston Psychopathic Hosp., Boston Lying-In Hosp., Carney Hosp., Boston Dispensary; Head, Dept. of Anesthesia, Tufts Med. Sch.; in practice, Boston.

MARVIN, HAROLD MYERS

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

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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., *ibid.*, 1923-28; Fellow, John Simon Guggenheim Memorial Foundation, 1926-27 (in laboratory of Sir Thomas Lewis, Univ. Coll. Hosp. Med. School, London); Asst. Clin. Prof. Med., Yale, 1928-33; Assoc. Clin. Prof. Med., *ibid.*; in practice, New Haven, Conn.

MASON, B. HENRY

M.D., Bowdoin, 1907; Gen. Internship, Maine Gen. Hosp., 1907-08; Asst. Phys., State Asylum, Worcester, August, 1908-November, 1913; in practice, Portland, Me., 1913-14; Asst. Phys., Worcester State Hosp., February, 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, Mass., during draft; Asst. Director, Psychopathic Hosp., Ann Arbor, Mich., April, 1921-January, 1923; Neuro-Psychiatrist, U. S. V. B.; Instr. in Psychiatry, Univ. of Mich. Med. School, 1921-23; *First Asst. Supt., P. B. B. H., January 8, 1923-December 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., November 1, 1925-March 1, 1927*; Res. Phys., Federal Prison, Atlanta, 1927-28; Instr. in Med., Emory Univ.; Attend. Phys., Grady Hosp.; Assoc. Visit. Phys., Emory Univ. Hosp. and Georgia Baptist Hosp.; 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., September 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., November 1, 1915-November 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; Consult. Phys., N. Y. State Reconstruction Hosp.; 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., December 15, 1917-October 1, 1918*; *Asst. Res. Surg., ibid., October 1, 1918-February 9, 1919*; Relief Comm., Near

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

McCARTY, ELBA DENTON

M.D., Univ. of Mich., 1903; Interne, two 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-October 14, 1919*; Roentgenologist, Swedish Hosp., Seattle, Wash.; Assoc., Tumor Inst., *ibid.*; in practice, Tacoma, Wash.

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-November 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., February 13, 1919-September 1, 1921*; Visit. Phys., Mass. Memorial Hosps., Gastroenterologist, O. P. D., *ibid.*, Member of Sr. Staff in charge of the Div. of Gastro-Intestinal Research, Evans Memorial for Med. Research, Asst. Prof. of Med., Boston Univ. Sch. of Med., 1921-32; Gastroenterologist to V. Med. Serv. and O. P. D. Gastroscopist and Jr. Visit. Phys., Boston City Hosp.; in practice, Boston.

McEACHERN, THOMAS H.

B.A., Univ. of Mich., 1925; M.D., *ibid.*, 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.*, 1930; Res. Pediatrician, *ibid.*, 1930-31; Asst. in Pediatrics, Cornell Univ., 1931-33; Asst. Attend. Pediatrician, N. Y. Hosp., 1931-33; in practice (pediatrics), Ann Arbor, Mich.

McGRATH, ROBERT

B.S., Northwestern, 1924; M.D., *ibid.*, 1928; Interne, St. Luke's Hosp., Chicago; *Jr. Assoc. in Med., P. B. B. H., September 15, 1929-May 1, 1930*; *Asst. Res. Phys., ibid., May 1, 1930-September 1, 1930*; Assoc. in Med., N. Y. Post-Grad. Med. Sch.; in practice, New York City.

McKEAN, RICHARD M.

A.B., Univ. of Mich., 1916; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., December 15, 1919-March 1, 1921*; H. O., Infants' Hosp., Boston, 1921; Prof. Clin. Med., Wayne Univ.; Attend. Phys. and Director of Metabolic Unit, Detroit Receiving Hosp.; Jr. Phys., Harper Hosp.; Consult. in Metab., Herman Kiefer 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

PETER BENT BRIGHAM HOSPITAL

Toronto, 1919 (on leave of absence to work with Doctor Cushing under the Mickle Fellowship of Toronto Univ.); *Asst. Res. Surg., P. B. B. H., November 1, 1922-November 1, 1923*; Surg. Staff, Toronto Gen. Hosp.; Senior Surg., *ibid.*; Assoc. in Surg., Univ. of Toronto.

McLEAN, ARTHUR JOHN

A.B., Reed Coll., Portland, Ore., 1921; M.D., Johns Hopkins, 1925; *Surg., H. O., P. B. B. H., July 1, 1925-November 1, 1926*; *Assoc. in Surg., ibid., January 10-September 23, 1927*; Arthur Tracy Cabot Fellow, Harv., 1926-27; *Asst. Res. Surg., P. B. B. H., September, 1927-June, 1929*; *Act. Res. Surg., ibid., June-September, 1929*; George Gorham Peters Traveling Fellow, 1929-30; *Res. Surg., P. B. B. H., October 1, 1930-June 1, 1931*; Clin. Assoc. in Surg., Univ. of Oregon Med. Sch.; Asst. Prof. Pathol., *ibid.*; in practice, Portland, Ore.

McLESTER, JAMES BOWRON

A.B., Univ. of Ala., 1926; M.D., Harv., 1930; *Med. H. O., P. B. B. H., March 1, 1931-March 1, 1932*; Asst. Res. Phys., N. Y. Hosp., 1932-33; Attend. Phys., Hillman Hosp., Birmingham, Ala.; Assoc. Clin. Prof. Med., Univ. of Ala.; in practice, Birmingham, Ala.

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-August 17, 1917*; in practice, Nashua, N. H.

MEAGHER, RICHARD

Ph.B., Yale, 1921; M.D., Cornell, 1927; *Pathol. H. O., P. B. B. H., September 1, 1927-January 1, 1928*; *Surg. H. O., ibid., April 1, 1928-August 1, 1929*; *Asst. Res. Surg., ibid., August 1, 1929-May 1, 1930*; *Jr. Assoc. in Surg., ibid., May-October, 1930*; *Asst. Res. Surg., ibid., October 1, 1930-June 1, 1931*; Arthur Tracy Cabot Fellow in Surg., Harv., 1930; *Res. Surg., P. B. B. H., June 1, 1931-September 1, 1932*. Died May 27, 1936.

MENARD, OLIVER J.

B.S., Colgate, 1922; M.D., Jefferson Med. Coll., 1926; Interne, Rochester General Hosp., July 1, 1926-July 1, 1927; Asst. Clin. Phys., Rome State School, July 1, 1927-October 15, 1927; *Med. H. O., P. B. B. H., November 1, 1927-March 1, 1929*; Asst. Res. in Med., Long Island Hosp., November-July, 1929; Fellow in Med., 1929-30; Asst. Phys., 1930-32, Physician, Lahey Clinic, Boston, 1932-33; Asst. Phys., Springfield Gen. Hosp.; in practice, Springfield, Mass.

MIDDLETON, RICHARD

M.D., Harv., 1927; Rotating Internship, Philadelphia; Res. Surg., Memorial Hosp., Worcester; *Asst. Res. Surg., P. B. B. H., September 15, 1930-July 15, 1931*; in practice, Salt Lake City, Utah.

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MIDELFART, CHRISTIAN FREDRIK

A.B., Yale; M.D., Johns Hopkins, 1931; *Med. H. O., P. B. B. H., 1932-33*; H. O., N. Y. Lying-In Hosp., 1933-34; Res. in Med., Wisconsin Gen. Hosp., 1934-35; Res. in Neurol., B. C. H., 1935-36; Instr. in Med., Univ. of Wisconsin, Madison, Wis.

MIDELFART, PETER A. H.

A.B., Yale, 1927; M.D., Harv., 1931; *Med. H. O., P. B. B. H., 1931-32*; *Surg. H. O., ibid., 1932-33*; Dept. of Pathol., Cornell, 1933-34; Asst. Res. in Orthopedics, 1934-35; Asst. Res. in Surg., 1935-36, and Res. in Surg., Wisconsin General Hosp., Madison, Wis., 1936-37; Asst. Laege in Surg., Ullevaal Sykehus, Oslo, Norway.

MILLET, JOHN ALFRED PARSONS

A.B., Harv., 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., November 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, N. Y., 1916-23; Phys., Austen Riggs Foundation, Stockbridge, Mass., 1923-30; Instr. in Psychiatry, Columbia, 1931-33; Asst. Attend. Psychiatrist (Children) Vanderbilt Clin., 1930-32; Fellow in Psychiatry, Cornell, 1933-36; Consult. Psychiatrist and Med. Director, "Silver Hill, Inc.," New Canaan, Conn.; in practice (Psychiatry) New York City.

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-February 1, 1925*; Asst. Prof. of Path., Univ. of Texas; Visit. Phys., Methodist Hosp. and Memorial Hosp., Houston, Texas; in practice, Houston, Texas.

MONTGOMERY, JAMES BLAINE

A.B., Dart., 1911; M.D., Harv., 1915; *Surg. H. O., P. B. B. H., November 1, 1915-March 1, 1917*; House Surg., Mass. Eye and Ear Infirm., 1917; Grad., Army Med. Sch., 1917; First Lieut., M. C., U. S. Army; Major, Med. Corps., U. S. Army, Washington, D. C. *Died October 14, 1928.*

MOORE, RICHMOND LAWRENCE

A.B., Univ. of Va., 1918; M.D., Harv., 1922; *Surg. H. O., P. B. B. H., November 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-August, 1927; Fellow in Surg., Presbyterian Hosp., 1928-32; Asst. Attend. Surg., *ibid.*; Instr. in Surg., Columbia Univ., 1928-37; Assoc. in Surg., *ibid.*; Assoc. Visit. Surg., N. Y. City Hosp.; in practice, New York City.

MORRIS, LAIRD M.

M.D., Univ. of Calif., 1916; *Asst. Res. Phys., P. B. B. H., April 15, 1920-October 1, 1920*; Asst. in Med., Univ. of Calif. Med. Sch., 1921-

PETER BENT BRIGHAM HOSPITAL

22; Instr. in Med., *ibid.*, 1923; Instr. in Med., Stanford Med. School; in practice, San Francisco, Calif.

MORRIS, JR., SAMUEL LESLIE

B.S., Davidson (N. C.), 1911; M.D., Harv., 1916; *Surg. H. O., P. B. B. H., November 1, 1916-November 1, 1917*; First Lieut., M. C., U. S. Army; First Asst. House Surg., St. Louis Southwestern Hosp., 1919; Chief House Surg., *ibid.*; in practice, Atlanta, Ga.

MORTON, JOHN JAMIESON

A.B., Amherst, 1907; M.D., Johns Hopkins, 1913; *Surg. H. O., P. B. B. H., March 1, 1913-July 1, 1914*; Fellow in Pathol., Rockefeller Inst., New York City, 1914-15; House Surgeon, M. G. H., 1915-16; Asst. Res. Phys., Rockefeller Inst. Hosp., New York, 1916-17; Major, M. C., U. S. Army, 1917-19; practice, Orthopedic Surg., Boston, Mass.; 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, N. Y.

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 Calif. Med. Sch., 1928-31; Instr. in Med., *ibid.*, 1931-36; Adjunct in Med., Mt. Zion Hosp., San Francisco; Asst. Clin. Prof. Med., Univ. Calif.; in practice, San Francisco, Calif.

MYERS, DANIEL WILBUR

A.B., Univ. Mich., 1929; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H., 1933-34*; Research Fellow in Med., Harv., 1934-35; Asst. Resident Phys., Barnes Hospital, St. Louis, 1935-36; Resident Phys., *ibid.*, 1936-37.

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., August 1, 1930-July 1, 1932*; Prof. of Med., Wayne Univ.; Attend. Phys. and Director of Med., Receiving Hosp., Detroit, Mich.

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., September 15, 1919-November 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., August, 1928-August,*

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1929; Demonstr. in Med., Western Reserve Univ., 1929; Assoc. in Med., St. Luke's Hosp., Cleveland, Ohio; Asst. Visitant, Med. Dept., *ibid.*; Asst. Visit. Phys., O. P. D., Lakeside Hosp., 1931-32; Visitant in Med., St. Luke's Hosp., Cleveland; in practice, 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., September 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-February 1, 1921*; in practice, Danvers, Mass.

NORFLEET, JR., WILLIAM J.

D.M.D., Harv., 1931; *Dental Interne, P. B. B. H., August 1, 1931-June 13, 1932*; in practice, Suffolk, Va.

NOTH, PAUL HENRY

B.S., Univ. of Minn., 1928; M.D., *ibid.*, 1931; Rotating Interne, Ancker Hosp., St. Paul, 1931-32; *Med. H. O., P. B. B. H., November 1, 1932-March 1, 1934*; Asst. in Med., Boston Disp., March-September, 1934; Fellow in Med., Mayo Foundation, 1934-37; First Asst. in Med., Mayo Clin., Rochester, Minn.

NOVY, ROBERT L.

A.B., Univ. Mich., 1913; M.S., *ibid.*, 1914; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., April 15, 1919-April 1, 1920*; Prof. Clin. Med., Wayne Univ., Detroit; Consult. Int. Med., Herman Kiefer Hosp., Detroit; Attend. Phys., Detroit Receiving Hosp.; Assoc. Phys., Harper Hosp., Detroit; in practice, Detroit, Mich.

O'CONNOR, VINCENT JOHN

B.S., Univ. of Mich., 1915; M.D., Rush Med. Coll., 1917; *Surg. H. O., P. B. B. H., January 1, 1917-January 1, 1918*; House Surgeon, Presbyterian Hosp., Chicago, Ill., 1918; First Lieut., M. C., U. S. Army, 1918-19; *Asst. Res. Surg., P. B. B. H., February 15, 1919-July 15, 1920*; Urol. Surg., Washington Boulevard Hosp.; Assoc. Prof., G. U. Surg., Univ. of Ill., Sch. of Med.; Urol. Surg., Garfield Park Hosp.; in practice, Chicago, Ill.

OLDBERG, ERIC

B.S., Northwestern, 1923; M.S., *ibid.*, 1926; M.D., *ibid.*, 1927; Ph.D., *ibid.*, 1928; Asst. in Chemistry, *ibid.*, 1922-23; Asst. in Physiol. and Pharmacol., *ibid.*, 1925-27; Instr. in Physiol., *ibid.*, 1927-28; Elizabeth J. Ward Fellow in Physiol., *ibid.*, 1927; *Surg. H. O., P. B. B. H., January 1, 1928-April, 1929*; *Asst. Res. Surg., P. B. B. H., April 1, 1929-October 1, 1930*; *George Gorham Peters Traveling Fellow in Berlin and Oxford, 1930-31*; Asst. Prof. of Surg., in charge of Neuro-Surgery, Univ. of Illinois, Chicago, Ill., 1931-34; Associate Prof. of

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Surg. and Acting Head Dept. of Surg., *ibid.*, 1934-36; Prof. and Head Dept. of Neur. and Neuro-Surgery, 1936; Attend. Neuro-Surg., Illinois Research and Educational Hospitals and St. Luke's Hosp., Chicago; Consult. Neuro. Surg., Illinois Central Hosp., Augustana Hosp., St. Joseph's Hosp., U. S. Marine Hosp. and Mt. Sinai Hosp., Chicago.

O'MEARA, JOHN WILLIAM

A.B., Holy Cross, 1912; M.D., Harv., 1918; *Surg. H. O., P. B. B. H., January 7, 1918-January 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, Mass.

OPPENHEIMER, ELLA

A.B., Bryn Mawr, 1914; M.D., Johns Hopkins, 1918; *Med. H. O., P. B. B. H., September 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; Specialist in Child Hygiene, U. S. Children's Bureau, 1930-36; Director, Bureau of Maternal and Child Welfare, Health Dept., Washington, D. C.; Residence, Bethesda, Md.

ORMOND, ALEXANDER T.

A.B., Princeton, 1912; M.D., Johns Hopkins, 1919; *Surg. H. O., P. B. B. H., November 1, 1919-March 1, 1921. Died May 8, 1930.*

ORMOND, JR., ALFRED CURTIS

A.B., Davidson, 1922; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., October 1, 1927-February 1, 1929*; Surg. Res., Peck Mem. Hosp., Brooklyn, N. Y., 1929-30; Chief Res., Williamsport Hosp., 1930-31; in practice, Zanesville, Ohio.

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-November 1, 1925*; Asst. Res. Surg., Lakeside Hosp., Cleveland; in practice, Orlando, Fla.

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*; Res. Pathol., Children's Hosp., Boston, 1930-31; *Res. Pathol., P. B. B. H., 1931-32*; Res. Pathol., B. L. I., 1932-33; Instr. in Pathol., Tufts Med. Coll., 1933-36; Pathol.-Monson State Hosp.

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OUGHTERSON, ASHLEY W.

M.D., Harv., 1924; M.S., Yale, 1929; *Pathol. H. O., P. B. B. H., January 1, 1924-January 1, 1925*; Surg. H. O., New York Hosp., January 1, 1925-January 1, 1927; Res. Surg., First Surg. Div., Bellevue Hosp., New York, January 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.*, 1929-34; Assoc. Prof. Surg., *ibid.*; Assoc. Surg., New Haven Hosp. and New Haven Disp.

PARKER, JR., FREDERICK

A.B., Harv., 1913; M.D., *ibid.*, 1916; *Med. H. O., P. B. B. H., March-April, 1917*; Asst. Pathol., B. C. H., 1923-32; Asst. Prof. of Pathol., Harv., 1928-34; Assoc. Prof. of Pathol., *ibid.*; Pathol., Boston City Hosp.

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., December 1, 1918-March 1, 1920*; private practice, Douglas, Wyo.; *Second Asst. Supt., P. B. B. H., January-May, 1921*; *First Asst. Supt., ibid., May 1, 1921-February 1, 1923*; in practice, Boston.

PARSONS, ROBERT J.

A.B., Syracuse, 1928; M.D., *ibid.*, 1931; *Med. H. O., P. B. B. H., June 15, 1931-October 30, 1932*; Research Fellow in Med., Harv., November 1, 1932-July 31, 1933; Pathol. Interne, N. Y. Hosp., 1933-34; Res. in Pathol., N. Y. Hosp., 1934-35; Asst. in Pathol., Cornell, 1933-35; Asst. in Dept. of Pathol. and Bacteriology, Rockefeller Inst. for Med. Research, New York City.

PATTERSON, HOWARD A.

M.D., Harv., 1925; Interne, Roosevelt Hosp., N. Y., 1925-27; House Gynecologist, *ibid.*, 1927-28; *Asst. Res. Surg., P. B. B. H., February-September, 1928*; Assoc. Surg., Roosevelt Hosp., N. Y.

PATTERSON, JR., ROBERT LEE

B.A., Univ. of Ga., 1928; M.D., Harv., 1932; *Surg. H. O., P. B. B. H., July 1, 1932-November 1, 1933*; Orth. Serv., Children's Hosp., 1933-34; Orth. Serv., M. G. H., 1934-35; Res., Fracture Serv., Presbyterian Hosp., N. Y., 1935-36; Asst., Ruptured and Crippled Hosp.; in practice (Orthopedic Surgery), New York.

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., November 1, 1912-September 1, 1915 (granted leave of absence March 1, 1914-January 1, 1915, to serve as a member of the China Medical Commission of the Rockefeller Foundation)*; *Asst. Visit. Phys., P. B. B. H., Sep-*

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tember 1-December 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., December 9, 1915-September, 1921 (leave of absence August 1, 1917-February 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 October 13, 1927.*

PECK, EUGENE CURTIS

A.B., Harv., 1916; M.D., *ibid.*, 1919; M. P. H., *ibid.*, 1933; *Med. H. O., P. B. B. H., 1919-20*; Instr. in Physiol. Chem., Tulane Univ., New Orleans, La.; Asst. in Pediatrics, Harv.; Prof. Bio-chemistry 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., 1927-31; Asst. Epidemiologist, Conn. State Dept. Health, 1931-32; Deputy State Health Officer, Oakland, Garrett Co., Maryland; Deputy State Health Officer, Leonardtown, St. Mary's Co., Md.

PENFIELD, WILDER GRAVES

Litt.B., Princeton, 1913; B.A., Oxford, 1916; M.A. and B.Sc., 1920; D.Sc., Oxon, 1935; M.D., Johns Hopkins, 1918; *Surg. H. O., P. B. B. H., August 15 1918-September 20, 1919*; Beit Mem. Research Fellow, England; Assoc. Attend. Surg., Presbyterian Hosp., New York; Asst. Prof. of Surg., Columbia Univ.; Asst. Surg., Neurol. Inst., Columbia Univ.; Asst. Surg., Neurol. Inst. of New York; Attend. Neurol., Vanderbilt Clin.; Prof. Neurology and Neuro-Surgery, McGill Univ.; Surg. in Charge Neurol. Surg., Royal Victoria Hosp.; Consult. Neurol. Surg., Montreal Gen. Hosp., Children's Memorial Hosp. and Jewish Gen. Hosp.; Director, Montreal Neurol. Inst.; in practice, Montreal.

PETERSON, RICHARD L.

M.D., Harv., 1934; Interne in Pathol., Huntington Mem. Hosp., 1934; *Surg. H. O., P. B. B. H., February 15, 1935-July 1, 1936*; Asst. Res., Memorial Hosp., N. Y. July 1, 1936-January 1, 1937; in practice, Coeur d'Alene, Idaho, 1937-38; H. O., B. L. I.

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*; Capt., M. C., U. S. Army; Med. Director, Ottawa Tbc. San., 1919-26; Board of Directors, National Tuberculosis Assoc., 1922-29; Director, Ill. Valley Hosp., 1926-32; Chairman, Radiological Section, Ill. State Med. Soc.; in practice, Ottawa, Ill.

PICKWICK, ERSKINE R.

M.D., Tufts, 1924; Interne, Newton Hosp., 1924-25; Asst. Surg., Hood Rubber Co. (Hosp.), Watertown, Mass., 1925-27; Asst. Res.

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(Exec.) Worcester City Hosp., 1927-29; *H. O. Roent., P. B. B. H., July 1, 1929-July 1, 1930*; *Asst. Res. in Roent., ibid., July 1, 1930-July 1, 1931*; Asst. Visit. Roent., Pondville Hosp., 1932; Asst. Visit. Roent., Burbank Hosp., Fitchburg, Leominster Hosp., Leominster; in practice (Roentgenology), Fitchburg, Mass.

PILCHER, COBB

M.D., Vanderbilt Univ., 1927; *Surg. H. O., P. B. B. H., July 1, 1927-November 1, 1928*; Asst. Res. Phys., Vanderbilt Univ. Hosp., Nashville, Tenn., 1928-29; Asst. Res. Surg., *ibid.*, July, 1929-January, 1931; Res. Surg., *ibid.*, 1931-32; Instr. in Surg., *ibid.* (on leave of absence); Special Student, Dept. of Neuro-Surg., Univ. of Chicago, February-May, 1932; Fellow in Neuro-Surg., Washington Univ. School of Med., St. Louis, Mo., 1932-33; Asst. Prof. Surg., Vanderbilt Univ.

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., September 1, 1926-September 1, 1927*; Instr. in Pathol., Harv.; Asst. Prof. Pathol., *ibid.*

POKORNY, NORMAN A.

A.B., Marquette Univ., 1925; M.D., Johns Hopkins, 1929; *Med. H. O., P. B. B. H., March 1, 1930-July 1, 1931*; Babies' Hosp., New York City, 1931-32; Med. Res., Infants' and Children's Hosp., 1932-33; in practice, Springfield, Mass.

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.*, 1907-27; Prof. Emeritus, *ibid.*, 1927; Dental Surgeon, "Ambulance American Hospital" at Neuilly, France, 1914-15; First 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.

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., October 15, 1926-September 15, 1927*; Arthur Tracy Cabot Fellow in charge of Lab. of Surg. Research, Harv.; *Assoc. in Surg., P. B. B. H., September, 1927-October, 1928*; *Res. Surg., ibid., October 15, 1928-July 1, 1930*; Assoc. Surg., Mary Imogene Basset Hosp., Cooperstown, N. Y.

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PRICE, JAMES VALENTINE

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

PURKS, WILLIAM K.

B.S., Emory Univ., 1926; M.D., *ibid.*, 1929; Interne, Grady Hosp., Atlanta, 1929-30; Med. H. O., *ibid.*, 1930-31; *Asst. Res. Phys., P. B. B. H., July 1, 1931-February 15, 1934*; Director, Dept. of Internal Med., Vicksburg Clin. and Hosp.; in practice, Vicksburg, Miss.

PUTNAM, LAWRENCE E.

A.B., Harv., 1930; M.D., *ibid.*, 1934; H. O., House of Good Samaritan, October 1, 1934-January 1, 1935; *Med. H. O., P. B. B. H., February 15, 1935-July 1, 1936*; H. O., Surg. Serv., Beth Israel Hosp., Boston.

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., November 1, 1923-October 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. Prof. Neurol. Surg., *ibid.*; Asst. Visit. Phys. in Neurol and Asst. Visit. Surg. for Neuro-Surg., B. C. H.; Asst. Visit. Surg., Neuro-Surg., M. G. H., 1932-34; Visit. Neurologist, B. C. H.; Prof. of Neurol., Harv.

QUINLAND, WILLIAM SAMUEL

B.S., M.D., Rosenwald Fellow in Pathol., Harv., September 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, Tenn.

RAGSDALE, LUNEY VARNON

A.B., Univ. of Ala., 1917; M.D., Harv., 1924; *Second Asst. Supt., P. B. B. H., June 1-December 15, 1924*; *Med. H. O., ibid., December 15, 1924-March 1, 1926*; Clin. Instr. in Med., Univ. of Alabama; Asst. Clin. Prof. Med., *ibid.*, 1931; Asst. Director, M. G. H.

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., October 1, 1913-November 1, 1914*; House Surg., Mercy Hosp., Chicago, Ill., 1914-15; Lieut., M. C., U. S. Army; Clin. Prof. Surg., (Neurological) Univ. of Calif.; in practice, Los Angeles, Calif.

RAPPORT, DAVID

A.B., Harv., 1912; M.D., *ibid.*, 1916; Moseley Traveling 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.*, 1920-21; Research Fellow in Physiology, Cornell Univ. Med. Coll., 1921-24; Sr. Instr. in

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Physiol., Western Reserve Univ. Med. Sch., 1924-26; Asst. Prof. Physiol., *ibid.*, 1926-29; Prof. Physiology, Tufts Med. School, Boston.

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*; in practice, El Paso, Tex.

RAY, BRONSON SANDS

B.S., Franklin College, 1924; M.D., Northwestern, 1928; Interne, Passavant Memorial Hospital, Chicago, Ill., and Wesley Memorial Hosp., Chicago, Ill., 1928-29; *Surg. H. O., P. B. B. H., January 1, 1930-May 1, 1931*; *Asst. Res. Surg., ibid., June 1, 1931-September 1, 1932*; Asst. Res. Surg., N. Y. Hosp., 1932-35; Res. in Surg., *ibid.*, 1935-36; Assoc. in Surg., Cornell.

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*; in practice, Nashville, Tenn.

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, N. Y.

REILING, WALTER A.

B.S., Univ. of Dayton, 1930; M.D., Harv., 1933; *Surg. H. O., P. B. B. H., July 1, 1933-November 1, 1934*; *Asst. Res. Surg., ibid., March 1, 1935-July 1, 1936*; in practice, Dayton, Ohio.

RENNIE, THOMAS A. C.

B.S., Univ. of Pittsburgh, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., November 1, 1928-March 1, 1930*; Med. Res., Simpson Mem. Hosp., 1930; Psych. H. O., 1931, Asst. Res., 1932, Res. Psych., 1933-35, and Assoc. in Psychiatry, Henry Phipps Psych. Clin., Johns Hopkins Hosp., Baltimore, Md.

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., October 15, 1919-June 1, 1922*; Roentgenologist, Children's Hosp., Boston, 1922; Roentgenologist, Harper Hosp., Children's Hosp. and Marine Hosp., Detroit; Editor, Am. Jour. of Roent.; in practice, Detroit, Mich.

RHEA, LAWRENCE JOSEPH

B.S., Univ. of Texas, 1901; M.D., Johns Hopkins, 1905; F.R.C.P.; 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.*,

PETER BENT BRIGHAM HOSPITAL

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-October 1, 1913*; Asst. Prof. of Pathol., Harv., 1912-13; Assoc. Prof. of Pathol., McGill Univ.; Major, Canadian Army Med. Corps; Pathol., Children's Memorial Hosp., Montreal; Pathol., Babies' and Foundlings' Hosp., Montreal; Director, Pathol. Lab., Montreal Div. of Shriner's Hosp.; Director of Pathol. Lab., Montreal General Hosp.; Consult. Pathol., Montreal Children's 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., 1926-28; Instr. in Pathol., Harv., 1927-28; Associate Member, 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, Russell-Sage Inst. of Pathol., Bellevue Hosp., New York City, 1923; Visit. Phys., Bellevue Hosp., 1928; Assoc. Prof. of Med., Cornell Univ. Med. Coll., New York City; Attend. Phys., New York Hosp.

RICHTER, ARTHUR B.

A.B., Indiana, 1925; M.D., *ibid.*, 1931; Rotating Interne, Indiana Univ. Hosp., 1931-32; *Med. H. O., P. B. B. H., November 1, 1932-March 1, 1934*; Pathol. H. O., Cleveland City Hosp., 1934; *Asst. Res. Phys., P. B. B. H., 1934-35*; in practice, Flora, Ind.

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., November 1, 1926-March 1, 1928*; Res. Interne and Jr. Research Asst., Simpson Mem. Inst. for Med. Research; Fellow in Med., National Research Council; Clin. Instr. in Med., Univ. of Oregon Med. Sch., 1930-32; Research Asst., Simpson Mem. Inst. for Med. Research, 1936-37; Clin. Assoc. in Med., Univ. of Oregon Med. Sch.; Medical Advisor, Reed College; in practice, Portland, Ore.

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., November 1, 1923-January 1, 1925*; Assoc. Phys., Montefiore Hosp., New York; in practice, New York City.

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RIOCH, DAVID M.

B.A., Butler Coll., Indianapolis, 1920; M.D., Johns Hopkins, 1924; *Surg. H. O., P. B. B. H., November 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-September 15, 1928; Nat. Research Council Med. Fellow, September 15, 1928-September 15, 1930; Assoc. in Physiol., Johns Hopkins Med. Sch., 1930-31; Asst. Prof. Anat., Harv.*

ROBERTSON, HAROLD F.

M.B., B.Sc. (Med.); Research Fellow in Surg., Brigham Unit. Lab., 1932; *Asst. Res. Surg., P. B. B. H., 1933-34; in practice, Toronto, Canada.*

ROONEY, JAMES STEWART

Univ. of Calif., 1917-21; M.D., Harv., 1926; *Pathol. H. O., P. B. B. H., January 1-October 1, 1926; Res. Pathol., Long Island Hosp., October 1, 1926-June 1, 1927; Res. Phys., ibid., 1927-28; Instr. in Pathol., Harv.; Pathol., Charles Choate Mem. Hosp., Woburn, Faulkner Hosp., Boston, Industrial Accident Board, Commonwealth of Mass., Lynn Hosp., Lynn, Malden Hosp., Malden, Women's Hosp., Boston, Ducey Hosp. and Moore Hosp., Brockton, Norwood Hosp., Norwood, Peterborough Hosp., Peterborough, N. H., Symmes Arlington Hosp., Arlington, Weymouth Hosp., Weymouth, Whidden Mem. Hosp., Everett, Community Mem. Hosp., Ayer, Winchester Hosp., Winchester, and Winthrop Comm. Hosp., Winthrop.*

ROOT, HOWARD FRANK

A.B., Harv., 1913; M.D., *ibid.*, 1919; *Med. H. O., P. B. B. H., 1919-20; Clin. Lab., J. H. H., 1920; Assoc. in Med., P. B. B. H., 1922-30; Phys., N. E. Deaconess Hosp.; in practice, Boston, Mass.*

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-September 14, 1923.*

RUBLEE, C. D.

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

RUTLEDGE, D. I.

M.D., Univ. Nebraska, 1934; *Pathol. H. O., P. B. B. H., 1934-35; Rotating Interne, U. S. Marine Hosp., New Orleans, La., 1935-36; Fellow in Med., Mayo Clin.*

SAEGER, ERNEST TIRRILL

B.S., Dart., 1914; M.D., Harv., 1917; *Surg. H. O., P. B. B. H., July 1, 1917-August 1, 1918; Res., First Surg. Div., Bellevue Hosp., New York.*

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SAGEBIEL, JAMES LAMBERT

B.S., Denison Univ., 1924; M.D., Harv., 1927; *Surg. H. O., P. B. B. H., October 1, 1927-February 1, 1929*; H. O., B. L. I., March-September, 1929; Sr. in Neuro-Psychiatry and Jr. in Neuro-Surg., Miami Valley Hosp.; Sr. in Neuro-Psychiatry and Jr. in Neuro-Surg., Good Samaritan Hosp.; Senior in Neuro-Psychiatry, St. Elizabeth's Hosp.; Consult. in Neuro-Psychiatry, Kettering Inst. for Med. Research, Miami Valley Hosp.; in practice (Neuro-Psychiatry), Dayton, Ohio.

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., 1929-31*; in practice, Miami, Fla.

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-October 1, 1930*; Asst. Prof. Neuro-Surg., Columbia Univ. Coll. Phys. and Surg.; Attend. Neuro-Surg., Neurol. Inst., N. Y.; in practice (Neuro-Surgery), N. Y.

SCHIRO, HAROLD S.

A.B., Bowdoin, 1929; M.D., Johns Hopkins, 1933; *Med. H. O., P. B. B. H., June 15, 1933-November 1, 1934*; Fellow in Med., Harv., 1934-35; Asst. Res. in Med., Duke Univ. Hosp., 1935-36; Asst. Res. Phys., Cincinnati Gen. Hosp., 1936-37; Res. Phys., *ibid.*

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-December, 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.*, 1931-34; Assoc. Clin. Prof. Med., Loyola Univ. School of Medicine; in practice, Chicago, Ill.

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-November 1, 1927*; *Asst. Res.*

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Phys., ibid., 1927-28; Instr. in Med., Detroit Coll. of Med., 1929; Assoc. Phys., O.P.D., Harper Hosp., Detroit, 1934; Physician, O.P.D., ibid.; Assoc. in Med., Detroit Receiving Hosp.; Asst. Prof. Med., Wayne Univ. College of Medicine; 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; M.Ch., Oxon, 1931; Stud., St. Peter's College, Westminster, London, 1912-17; Second 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., August 1, 1926-July 10 1927; Surg. Registrar, Guy's Hosp., London, England, 1928-32; Honorary Surg., Herefordshire Gen. Hosp.*

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; Asst. in Surg., O. P. D., Harper Hosp., 1926; *Asst. Res. Surg., P. B. B. H., October 1, 1928-August 1, 1929; Neuro-Surg., Harper Hosp., Receiving Hosp., Children's Hosp. of Mich.; Consult. Neuro-Surg., Deaconess Hosp., Sigma Gamma Clin., North End Clin., Woman's Hosp., Herman Kiefer Hosp., Detroit; Prof. Neurol. Surg., Wayne Univ. Coll of Med.; in practice, Detroit, Mich.*

SCHULZ, REUBEN Z.

A.B., Central Wesleyan Coll., Warrenton, Mo., 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., September 1, 1929-September 1, 1931; Instr., Dept. Pathol., Harv.; Pathol., Middlesex Co. San.*

SCHUMACHER, IRWIN C.

A.B., Univ. of Calif., 1915; M.D., Johns Hopkins, 1919; *Asst. Res. Phys., P. B. B. H., October 1, 1920-September 1, 1921; Asst. Prof. Med., Univ. of Calif.; in charge, Clin. Pathol. Dept., and Allergy Clin., Director of Clin. Labs., and Visit. Phys., Univ. of Calif. Hosp.; in practice, San Francisco, Calif.*

SCHWARTZ, CHARLES WADSWORTH

Ph.B., Yale, 1914; M.D., Harv., 1919; *H. O., X-Ray Dept., P. B. B. H., February 20, 1919-February 20, 1920; Director, X-Ray Dept., Neurol. Inst. of New York; Assoc. Prof. Clin. Radiology, College of Physicians and Surgeons, Columbia Univ.; Consult. in Neuro-Roentgenology, N. Y. City Hosp.; in practice, New York City.*

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.

PETER BENT BRIGHAM HOSPITAL

Pathol., Montefiore Hosp., 1921-22; Arthur Tracy Cabot Fellow, Harv., 1922-23; Asst. in Surg., *ibid.*, 1923; *Assoc. in Surg., P. B. B. H., September 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. Surg., Strong Mem. and Rochester Municipal Hosp., 1926-27; *Assoc. Surg., ibid.*; Asst. Prof. Surg., Univ. of Rochester, Rochester, N. Y., 1926-27; *Assoc. Prof. Surg., ibid.*

SEELY, HALL

A.B., Yale, 1929; M.D., Harv., 1933; *Surg. H. O., P. B. B. H., November 1, 1933-March 1, 1935*; Asst. Res. in Pathol., New Haven Hosp. and Asst. in Pathol., Yale Univ., January-July, 1936; Asst. Res. in Surg., Stanford Univ. Hospitals and Asst. in Surg., Stanford Univ., 1936-37; Res. in Surg., Stanford Univ. Hosp.; Asst. in Surg., Stanford Univ.

SHAMBAUGH, JR., GEORGE E.

A.B., Amherst, 1924; M.D., Harv., 1928; *Med. H. O., P. B. B. H., November 1, 1928-March 1, 1930*; Interne, Mass. Eye and Ear Infirmary, 1930-32; Res. in Otolaryngology, Presbyterian Hosp., Chicago, 1932-33; Staff, Presbyterian Hosp., Chicago; Consult. Staff, Municipal Contagious Disease Hosp.; Instr., Dept. Otolaryngology, Rush Med. Coll.; in practice (otolaryngology), Chicago, Ill.

SHAMBAUGH, PHILIP

A.B., Amherst, 1926; M.D., Harv., 1930; *Med. H. O., P. B. B. H., November 1, 1930-March 1, 1932 Surg. H. O., P. B. B. H., April 1, 1932-August 1, 1933*; Arthur Tracy Cabot Fellow, Harv., 1933-34; *Jr. Assoc. in Surg., P. B. B. H., September 1, 1933-July 1, 1934; Asst. Res. Surg., ibid., July 1, 1934-November 1, 1935; Harvey Cushing Fellow, ibid., November 1, 1935-July 1, 1936*; Res. Surg., Presbyterian Hosp., Chicago, 1936-37; Clin. Asst. in Surg., Northwestern Univ. Med. Sch.; in practice, Chicago.

SHELBURNE, SAMUEL A.

B.A., Rice Inst., Houston, Texas; M.D., Univ. of Pa., 1928; H. O., Univ. Hosp., Philadelphia, 1927-29; Lab. work, Shreveport Charity Hosp., 1922-23; *Asst. Res. Phys., P. B. B. H., July 1, 1929-July 1, 1930*; Teach. Fellow in Med., Lakeside, 1930-31; Instr. in Med., Baylor Med. Sch.; Visit. Phys., Parkland Hosp.; in practice, Dallas, Texas.

SHILLITO, FREDERICK H.

A.B., Univ. of Mich., 1927; M.D., Harv., 1931; *Surg. H. O., P. B. B. H., January 1, 1932-May 1, 1933*; Asst. in Med., Columbia Univ., 1933-35; Instr. in Med. in Industrial Hygiene, *ibid.*; Asst. Phys., Presbyterian Hosp., New York City.

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.*,

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P. B. B. H., July, 1924-August, 1926; Chief Res., Emory Div., Grady Hospital, Atlanta, Ga., 1926-27; in practice, Ft. Dodge, Iowa.

SIMON, HILDA AMANDA

M.D., Cooper, 1905; *Third Asst. Supt.*, *P. B. B. H.*, October 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-August 1, 1926; Supt. and Med. Director, Jefferson Co. Sanatorium, Watertown, N. Y.

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, 1916; Instr. in Pediatrics, Harv.; Consult. Pediatricist, Boston Lying-In 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.*, November 1, 1912-March 1, 1914; *Asst. Res. Phys.*, *ibid.*, March 1-September 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, 1929-32, and 1933-36; Prof., Dept. Public Health Administration, Harvard School Public Health, 1928-37; Director, Dept. of Public Health and Preventive Med., Cornell Univ. Med. Sch., New York City.

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, N. Y.

SMITH, JUDSON ARTHUR

A.B., Harv., 1915; M.D., *ibid.*, 1918; *Med. H. O.*, *P. B. B. H.*, February 14, 1918-January 30, 1919; Surg. Serv., New Haven Hosp.;

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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; Asst. Visit. Obstetrician, ibid.; 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., September 1, 1928-September 1, 1929; Res. Phys., Grady Hosp. (Emory Univ.), 1929-30; in practice, Atlanta, Ga.*

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-November 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.; Clin. Prof. Orth. Surg., Harv.; in practice, Boston.*

SNODGRASS, SAMUEL R.

B.S., Indiana Univ., 1927; M.D., *ibid.*, 1929; Interne, Indianapolis City Hosp., 1929-30; Asst. Res. Pathol., Indiana Univ. Hospitals, 1930-31; Interne, Lakeside Hosp., 1931-32; *Asst. Res. Surg., P. B. B. H., November 1, 1932-March 1, 1934; Harvey Cushing Fellow, P. B. B. H., March-August, 1934; Fellow in Neuro-Surg., Washington Univ., 1934-36; Grant for study from Div. of Medical Sciences, Rockefeller Foundation, 1937; Neuro-Surg., John Sealy Hosp.; Asst. Prof. Neuro-Surg., Univ. of Texas, Galveston, Texas.*

SOOY, DANIEL WARREN

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

SPIES, THOMAS D.

M.D., Harv., 1927; *Pathol. H. O., P. B. B. H., January 1, 1928-January 1, 1929; First Asst. in Pathol., B. C. H., 1929-30; Interne, Lakeside Hosp., 1930-31; Teach. Fellow in Med., Western Reserve Univ., 1931-33; Instr. in Med., ibid., 1931-33; Sr. Instr. in Med., ibid., 1933-34; Asst. Prof. Med., Univ. of Cincinnati, 1934-35; Assoc. Prof. of Med., ibid.*

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., 1918-19; Assoc. Roentgenologist, Hosp. for Ruptured and Crippled; Consult. Roentgenologist, Beekman St. Hosp. and New York Infirmary for Women and Children; 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., November 1, 1923-March 1, 1925; Asst.*

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Res. Surg., ibid., March 1-September 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, Los Angeles, Calif.

STEAD, JR., EUGENE A.

B.S., Emory, 1928; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H., June 15, 1932-November 1, 1933*; Research Fellow in Med., Harv., 1933-34; *Surg. H. O., P. B. B. H., June 15, 1934-November 1, 1935*; Asst. Res. in Med., Cincinnati Gen. Hosp., 1935-36; Res., *ibid.*, 1936-37; Instr. in Med., Univ. of Cincinnati, 1936-37; Res., Thorndike Memorial Lab., B. C. H.; Research Fellow in Med., Harv., 1937; Asst. in Med., *ibid.*

STECHEK, ROBERT M.

B.S., Dart., 1919; M.D., Harv., 1923; *Med. H. O., P. B. B. H., November 1, 1924-November 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.; Desert San. of So. Arizona, Tucson, Ariz. (on leave October 1, 1931-May 1, 1932, for Clin. Research); Visit. Phys. in Gen. Med., and Sr. Clin. Instr., Dept. of Med., Western Reserve Univ. Med. School; in practice, Cleveland, Ohio.

STEEL, SELWYN

M.D., Yale, 1930; Grad. Asst. in Med., M. G. H., 1930-31; *Med. H. O., P. B. B. H., February 15, 1931-July 1, 1932*; Asst. in Med., Boston Disp.; Instr. in Med., Tufts; Jr. Visit. Phys., B. C. H.; Cardiac Clin., *ibid.*; Cardiac Consult., Lawrence Gen. Hosp., Lawrence, Mass.; in practice, Boston, Mass.

STELLAR, ROBERT W.

B.S., Occidental Coll., Calif., 1919; Univ. of Calif., two years; M.D., Harv., 1923; *Surg. H. O., P. B. B. H., November 1, 1923-March 1, 1925*; in practice (traumatic surgery), Wilmington, Calif.

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-January 1, 1918*; M. C., U. S. Army, 1918-19; Coolidge Fellow in Med., Columbia Univ., New York, 1919-20; Instr. in Med., *ibid.*; in practice, New York City.

STEVENS, WILLIAM B.

M.D., Harv., 1924; Asst. Res., Thorndike Lab., B. C. H., 1924-25; Interne, Fourth Med. Service, *ibid.*, 1925-26; *Asst. Res. Phys., P. B. B. H., December 1, 1926-August 22, 1927*; Jr. Visit. Phys., B. C. H.; Member, Assoc. Staff, Faulkner, N. E. Deaconess, Robert B. Brigham Hosp., Boston; Asst. in Med., Harv.; in practice, Boston.

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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.; Asst. Prof. Surg. (Orthopedics), Univ. of So. 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., September 8-December 12, 1924*; Phys. of Fogg Museum Archæological Expedition to Mongolia, 1925; in practice, Miami, Fla., 1926-28; Assoc. in Traumatic Surg., Clin. of Doctors Forrester, Stimson and Mason; Orth. Consult., Marine Hosp. of Chicago; Member, Attending Staff, Chicago Memorial Hosp.; in practice, Chicago, Ill.

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-September 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., October 1, 1919-June 15, 1920*; Surg. in Charge, Urol. Serv., Charles V. Chapin Hosp.; Assoc. in Urol., Surg. Serv., R. I. Hosp.; Consult. Urol., Prov. Lying-In Hosp., Memorial Hosp., Pawtucket, and South County Hosp., Wakefield, R. I.; in practice, Providence, R. I.

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., February 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, Me., June, 1921-February, 1930; Supt., The Memorial Hosp., Worcester, Mass.

STRAYER, LUTHER M.

A.B., Princeton, 1926; M.D., Harv., 1930; *Surg. H. O., P. B. B. H., July 1, 1930-November 1, 1931*; Jr. Fellow in Surg., Presbyterian Hosp., New York City, December, 1931-June, 1932; Res. on Fracture

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Serv., *ibid.*, 1932-33; in practice, Stratford, Conn., 1933-37; Interne, Orth. Surg., C. H.

STRAYHORN, JR., WILLIAM DAVID

B.A., Vanderbilt, 1925; M.D., *ibid.*, 1928; *Med. H. O., P. B. B. H., July 1, 1928-November 1, 1929*; Asst. in Med., Vanderbilt Hosp., 1929-30; Asst. Res. Phys., *ibid.*, 1930-31; Res. Phys., *ibid.*, 1931-32; Res. Phys., N. Y. Hosp. and Cornell Univ. Med. Coll., 1932-34; Medical Officer, Tenn. Valley Authority, 1934-36; in practice, Nashville, Tenn.

STURGIS, CYRUS CRESSEY

B.S., Univ. of Wash., 1913; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H., October 15, 1917-August 22, 1918*; First Lieut., M. C., U. S. Army, 1918-19; *Asst. Res. Phys., P. B. B. H., August 25, 1919-April 15, 1920*; *Res. Phys., ibid., April 15, 1920-August 1, 1922*; *Assoc. in Med., ibid., August 1, 1922-September 1, 1925*; Fac. Instr. in Med., Harv., September 1, 1922-September 1, 1925; Asst. Prof. Med., *ibid.*, September 1, 1925; Assoc. Phys., C. P. Huntington Hosp., September 1, 1925-January 1, 1926; *Physician, P. B. B. H., September 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., Ann Arbor, Mich.

SULLIVAN, JR., GARRETT L.

A.B., Boston Coll., 1930; M.D., Harv., 1934; *Med. H. O., P. B. B. H., February 15, 1935-July 1, 1936*; H. O., Eye Serv., Mass. E. & E. Infirmary.

SULLIVAN, GEORGE ARNOLD

A.B., Catholic Univ., Washington, D. C., 1929; D.M.D., Harv., 1933; *Dental Interne, P. B. B. H., 1933-34*; in practice, Newburyport, Mass.

TAFT, ANNIE E.

M.D., Tufts, 1907; *Res. Pathol., P. B. B. H., November 5, 1917-January 31, 1918*; Res. Phys., Pa. Hosp. Mental and Nervous Diseases, 1918-20; Special Research Asst., Boston Psychopathic Hosp., 1920-21; Neuro-Pathol., Pa. Hospital Mental Diseases, and Neuropsychiatrist, Community Health Centre, Philadelphia, 1922-27; Laura Spelman Research Fellow, Dept. Industrial Medicine, Univ. of Pa., 1927-31; Bibliographic Research, Neurol. Inst. of New York, 1932-33; Laboratory Research in Neuropsychiatry, Philadelphia.

TAFT, ROGER BROWNE

D.M.D., Harv., 1908; Asst. in Oral Surg., *ibid.*, 1910; Instr. in Oral Surg., *ibid.*, February 1, 1919; *Dental Surg., P. B. B. H., January 13, 1916-February 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-November 1, 1928*;

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Pathol. H. O., ibid., January, 1929-January, 1930; Asst. Res. in Surg., Wis. Gen. Hosp., January, 1930-July, 1930; Res. in Surg., ibid., 1930-31; Asst. in Surg., Univ. Clin., Basel, Switzerland, 1932; Instr. in Surg., Univ. of Wis., 1931-35; in practice, Washburn, Wis.

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., November 1, 1925-June 22, 1926; Asst. in Genito-Urinary Surg., Harv., 1925-26; in practice, Bellingham, Wash.*

TEEL, HAROLD M.

M.D., Harv., 1929; Arthur Tracy Cabot Fellow, Harv., January-September, 1929; *Jr. Assoc. in Surg., P. B. B. H., July 1-September 1, 1929; Asst. Res., Lakeside Hosp., 1929-31; H. O., Boston Lying-In Hosp., 1931-33; Res. in Obst., ibid., 1933-34; Instr. in Obstetrics, Harv.*

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; Assoc. Phys., Children's Med. Dept., M. G. H.; Consult. in Pediatrics, Mass. Eye and Ear Infirm; Instr. in Pediatrics, Harv.; Consult. in Pediatrics, Robert Brigham Hosp.; in practice, Boston, Mass.*

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, N. Y.; Post-graduate study abroad, 1932; Instr. Clin. Cardiology, Georgetown Univ. Sch. of Med.; in practice, Washington, D. C.*

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., November 14, 1916-July, 1917; Res. Roent., M. G. H., 1927-28; Roentgenologist, Maine Gen. Hosp.*

THOMPSON, CHARLES BAKER

A.B., Haverford, 1909; M.D., Johns Hopkins, 1913; *Med. H. O., P. B. B. H., November 1, 1913-November 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; Instr. in Psychiatry, N. Y. Univ.; Vice-President, The Lifwynn Foundation; in practice, New York City.*

THOMPSON, KENNETH WADE

A.B., Leland Stanford, 1926; M.D., Harv., 1929; *Surg. H. O., P. B. B. H., January 1, 1930-May 1, 1931; Fellow in Surg. Research,*

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Harv.; *Asst. Res. Surg., P. B. B. H., October 1, 1931-March 1, 1933; Cushing Fellow, ibid., March 1-July 1, 1933; Peters Traveling Fellow, 1933-34; Res. Surg., P. B. B. H., 1934-35; Instr. in Surg., Harv., 1934-35; Fellow in Experimental Endocrinology, Yale, 1935-37; Coxe Fellow, ibid.; Assoc. Surg., New Haven Hosp.*

THRASHER, IRVING D.

M.D., Johns Hopkins, 1931; Rotating Interne, J. H. H., 1931-33; *Pathol. H. O., P. B. B. H., January 1, 1933-September 23, 1933; Res. Surg., Illinois Research and Educational Hosp., Univ. of Ill., 1933-35; Member, Attend. Staff, Henrotin Hosp.; in practice, Chicago, Ill.*

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-September 1, 1930; Phys.-in-Chief, Clin. of Dermatology and Syphilis, Boston Disp.; Dermatologist, Boston Floating Hosp.; Asst. Prof. Dermatology, Tufts College Med. Sch.; in practice (dermatology), Boston.*

TOLLMAN, JAMES PERRY

B.S., Univ. of Neb., 1927; M.D., *ibid.*, 1929; *Med. H. O., P. B. B. H., July 1, 1929-November 1, 1930; Pathol. H. O., ibid., January 1, 1931-July 15, 1931; Asst. Prof. Pathol., Univ. of Nebraska.*

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-November 1, 1922; Visit. Surg., Lyons Hosp., Lyons, N. Y.; in practice, Lyons, N. Y. Died October 8, 1933.*

TOWNE, EDWARD BANCROFT

A.B., Harv., 1906 (1907); M.D., *ibid.*, 1913; *Surg. H. O., P. B. B. H., July 1, 1913-November 1, 1914; Asst. Res. Surg., ibid., November 1, 1914-November 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., September 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, Calif.**

TRANter, CHARLES LEE

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

TREMAINE, MYRON JEWELL

B.A., Univ. Ill., 1929; M.S., Northwestern, 1932; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H., 1933-34; Res. Gynecologist, Passavant Mem. Hosp., Chicago, 1934-35; First Lieut., M. C., U. S. Army.*

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TROPPOLI, DANIEL V.

A.B., A.M., Brown Univ., 1923; M.D., Harv., 1927; Neurol. H. O., M. G. H., June, 1927-January, 1928; *Med. H. O., P. B. B. H., March 1, 1928-July 1, 1929*; Res. Phys., R. I. Hosp., 1929-30; *Surg. H. O., P. B. B. H., July 1, 1931-November 1, 1932*; in practice, Providence, R. I.

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 Univ. Dept. 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.; Attend. Phys., Passavant Hosp., Chicago; Assoc. Phys., Evanston Hosp. Med. Service; in practice, Evanston, Ill.

TURNER, RALPH WALDO

M.D., Albany Med. School, 1917; *Surg. H. O., P. B. B. H., December 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; Attend. Otolaryngologist, Christ Hosp. and Good Samaritan Hosp., Cincinnati; Asst. in Otolaryngology, Univ. of Cincinnati; in practice (Otolaryngology), Cincinnati, Ohio.

VAN AUKEN, HOWARD A.

A.B., Yankton Coll., 1925; M.D., Univ. of Mich., 1931; *Med. H. O., P. B. B. H., July 1, 1931-November 1, 1932*; Fellow in Med. Research, Harv., 1932-33; Clin. Asst., N. Y. Post-Grad. Hosp. and Med. Sch., 1933-35; Instr. in Med., *ibid.*, 1935-36; First Lieut., M. C., U. S. Army, Ft. Belvoir, Va.

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.; Roent., Newton Hosp. and Framingham-Union Hosp.

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*; Medical House Pupil, M. G. H., 1916-17; House Surg., Free Hosp. for Women, Brookline, 1917; Capt., M. C., U. S. Army, 1917-1919; Associate Prof. Surg., Peiping Union Medical College, Peiping, China, 1920-29; Attend. Orth. Surg., M. G. H.; Instr. in Orthopedic Surg., Harv.; in practice, Boston, Massachusetts.

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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.; Assoc. Prof. Surg., *ibid.*

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, WALTER W.

A.B., Univ. No. Carolina, 1929; M.D., Jefferson, 1933; Interne, Geisinger Mem. Hosp., July 1, 1933-July 1, 1934; *Roent. H. O., July 1, 1934-July 1, 1935*, *Asst. Res. in Roent., July 1, 1935-July 1, 1936*, *P. B. B. H.*; Assoc. Radiologist, Duke Univ. Hosp.

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; Secretary, Assoc. for the Study of Allergy; Editor, *Journ. Lab. and Clin. Med.*; Director, The Vaughan-Graham Clin.; in practice, Richmond, Va.

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., 1930-33; Hon. Consult. Urol. to the Far East Rand Hosp. and to Krugersdorp Hosp.; in practice, Union of South Africa.

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 McClellan Hosp., Cambridge, New York; in practice, Cambridge, N. Y.

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. Neurol., M. G. H.; Visit. Neurol., Long Island Hosp., Boston; Assoc. in Neurol., Harv.; in practice, Boston.

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WAKEMAN, EDWARD T.

B.A., Yale, 1919; M.D., *ibid.*, 1922; *Med. H. O., P. B. B. H., July 1, 1922-Nov. 1, 1923*; Asst. in Pediatrics, 1923-25, Instr. in Pediatrics, 1925-26, Clin. Instr. Pediatrics, 1926-34, Med. Examiner, Dept. Univ. Health, 1926-29, Yale; Attend. Pediatrician, Grace Hosp.; Asst. Attend. Pediatrician, New Haven Hosp. and New Haven Disp.; Asst. Clin. Prof. Pediatrics, Yale.

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.; Assoc. Clin. Prof. Ophthalmology, College of Medical Evangelists; Assoc. Prof. in Ophthalmology (Surg.), Univ. of So. 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, Griffin, 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-

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19; *Asst. Res. Phys., P. B. B. H., Sept. 1, 1919-Aug. 15, 1921*; Instr. in Pharm., Univ. of Penn., 1921-23; Instr. in Med., Harv., 1923-24; Asst. Prof. of Med., *ibid.*; Asst. Phys., Thorndike Lab., B. C. H.; Jr. Visit. Phys., *ibid.*; Assoc. Prof. Med., Harv.; Assoc. Director, Thorndike Lab., B. C. H.; Visit. Phys., B. C. H., 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, Calif.; Med. Staff, Selwyn Emmet Graves Mem. Disp., Univ. of Calif.; Attend. Staff, California Lutheran Hosp.; in practice, Los Angeles, California.

WELLER, JR., G. LOUIS

B.A., Johns Hopkins, 1927; M.D., *ibid.*, 1932; *Med. H. O., P. B. B. H., Oct. 15, 1932-Mar. 1, 1934*; Clin. Instr. in Med., George Washington Univ.; in practice, Washington, D. C.

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*; Secretary, R. I. State Med. Soc., 1936; 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.*

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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.; Assoc. Phys., *ibid.*; Phys. (Visit.), *ibid.*; Consult. Phys., Neuro-Psychiatric Inst. and Hosp., Hartford, New Britain Gen. Hosp., Manchester Mem. Hosp., Middlesex Hosp., Windham Co. Hosp., Backus Hosp., Norwich, Avon Old Farms School, Avon, Conn.; in practice, Hartford, Conn.

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.; Clin. Prof. Med., Univ. of So. Calif.; in practice, Los Angeles, Calif.

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; in practice, Boston, Mass., and Portsmouth, N. H.

WHITE, BENJAMIN V.

A.B., Princeton, 1930; M.D., Harv., 1934; *Med. H. O., P. B. B. H., June 15, 1934-Nov. 1, 1935*; Psychiatric H. O., New Haven Hosp.,

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1936; Jeffrey Richardson Fellow, Harv., 1936-38; Grad. Asst. in Med., M. G. H.

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., 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.*, 1930-31; 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., Mar. 1, 1925-July 1, 1926; Asst. Res. Phys., Vanderbilt Univ., Nashville, Tenn., 1926-27; Res. Phys., ibid., 1927-28; Clin. Assoc. in Med., Univ. of Oregon; 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-Mar. 1, 1921; Phys., Clifton Springs San., Clifton Springs, New York, 1921-29; (6 months' study period, Univ. Pa., 1922; 6 months' study period, Johns Hopkins, 1927); Assoc. Prof. Neuro-Psychiatry, Univ. of Virginia.*

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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, *ibid.*, 1924-29; Asst. Prof. Pediatrics, Syracuse Med. Sch.; Assoc. Attend. Pediatrician, Syracuse Univ. Hosp. and Syracuse Mem. Hosp.; in practice, Syracuse, N. Y.

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., Mar. 1, 1924-July 1, 1925*; Post-Grad. work at Inst. for Brain Anatomy, Amsterdam, Holland, 1925-26; Post-Grad. work in Neuro-Pathol., Hamburg, Fredrichsburg, Germany, 1926-27; Post-grad. work, National Hosp., London, 1928; Res., Neurol. Serv., Bellevue Hosp., N. Y., 1929; Assoc. in Neurol. and Psychiatry, Emory Univ.; in practice (neurology), Atlanta, Ga.

WISLOCKI, GEORGE BERNAYS

A.B., Washington Univ., 1912; 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., Mar. 25-Oct. 1, 1920*; Assoc. in Anat., Johns Hopkins; Assoc. Prof. of Anat., *ibid.*, 1923-31; Parkman Prof. Anat., Harv.

WOOD, CORNELIUS B.

A.B., Mich. State Univ., 1926; M.D., Univ. of Mich., 1930; Fellow in Pathol., *ibid.*, 1930-31; H. O., Presbyterian Hosp., Chicago, 1931-32; Arthur Tracy Cabot Fellow, Harv., 1932-33; *Jr. Assoc. in Surg., P. B. B. H., Aug. 15, 1932-July 1, 1933*; *Asst. Res. Surg., P. B. B. H., July 1, 1933-November 1, 1934*.

WOOD, R. HUGH

M.D., Med. Coll. of Va., 1921; Interne, St. Elizabeth's Hosp., Richmond, Va., 1922; Res. Pathol., Mem. Hosp., Richmond, Va., 1922-23; *Med. H. O., P. B. B. H., Mar. 1, 1923-July 1, 1924*; Chief Res., 1924-26, Instr. in Med., 1925-31, Assoc. in Med., 1931-35, Visiting Phys., Grady Hosp., Atlanta, Ga.; Asst. Visit. Phys., Emory Univ. Hosp.; in practice, Atlanta, Ga.

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; Visit. Phys., St. Luke's Hosp., New Bedford, Mass.; Member, Advisory Council, *ibid.*; in practice, New Bedford, Mass.

WOODS, ALAN CHURCHILL

A.B., Johns Hopkins, 1910; M.D., *ibid.*, 1914; *Med. H. O., P. B. B. H., July 1, 1914-November 1, 1915*; Fellow and Assoc. in Exper.

REGISTER OF FORMER MEMBERS OF THE STAFF

Med. and Asst. in Ophthal., Univ. of Pa.; Major, M. C., U. S. Army, 1917-19; Acting Prof. Ophthal., Johns Hopkins Univ.; Director, Dept. of Ophthalmology and Ophthalmologist-in-Chief, Johns Hopkins Hosp.; 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, Glocker Hosp. and Sanatorium, Bethel Hosp., Colorado Springs, Colo.; Surg. Consult., Modern Woodmen of America San., Colorado Springs; Surg. Consult., Colo. Coll. Athletic Assoc.; Surg. Staff, St. Francis Hosp.; Asst. Surg. Consult., Union Printers' Home; in practice, Colorado Springs.

WOOLSTON, STEPHEN S.

B.S., Princeton, 1924; M.D., Univ. of Pa., 1929; Interne, Pennsylvania Hosp., 1929; Interne, Protestant Episcopal Hosp., Philadelphia, 1929-31; *Asst. Res. Surg., P. B. B. H., January 15, 1932-May 1, 1932*.

WOSIKA, PAUL HENRY

B.S., M.D., Northwestern, 1931; M.S. (Med.), *ibid.*, 1936; Interne, Passavant Mem. Hosp., Chicago, 1930; Res. in Gynecology, *ibid.*, 1931; *Asst. Res. Phys., P. B. B. H., 1931-33*; in charge, Preclinic, Northwestern, 1934-36; Elizabeth Ward Fellow in Med., *ibid.*; Instr. in Med., *ibid.*; in charge, medical clinic, *ibid.*; in practice, Chicago, Ill.

WRIGHT, LESLIE H.

M.D., Univ. of Vt., 1918; H. O., Naval Hosp., Chelsea, 1918-19; Transport Serv., May 1, 1919-September 1, 1919; Asst. Phys., Conn. State Hosp., September, 1919-July, 1920; Private Practice, July, 1920-May, 1922; Pathol., Monson State Hosp., May, 1922-December, 1924; Asst. in Hosp. Adm., Harv. Sch. Public Health, 1927-28; *Second Asst. Supt., P. B. B. H., December 1, 1924-December 1, 1927*; *First Asst. Supt., ibid., December 1, 1927-July 1, 1930*; Supt., Genesee Hosp., Rochester, N. Y.

WRIGHT, MARY

- A.B., Vassar, 1911; M.D., Johns Hopkins, 1917; *Med. H. O., P. B. B. H., July 1, 1917-September 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, January 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., January 15-July 1, 1918*; *Res. Pathol., ibid., July 1, 1918-March 31, 1919*; Asst.

PETER BENT BRIGHAM HOSPITAL

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.*, 1929-30; Instr. in Pediatrics, Cornell Univ. School of Med., 1930-31; Attend. Pathol. and Asst. Pediatrician, Syracuse Mem. Hosp.; Asst. Prof. Pediatrics, Syracuse Univ.; in practice, Syracuse, N. Y.

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-October 4, 1921; Alternate on Visit. Staff, Indianapolis City Hosp., Indianapolis; Research Fellow, Indiana Univ. Med. Sch. *Died at Colorado Springs, Colo., December 4, 1931.*

YOAKAM, WAYNE ADDISON

B.S., Denison Univ., 1916; M.D., Harv., 1920; *Surg. H. O., P. B. B. H.*, July 1, 1920-November 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, Mich.

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.*, July 1, 1930-November 1, 1931; Neurol. H. O., Bellevue Hosp., N. Y., January-October, 1932; Henry Phipps Psychiatric Clin., Johns Hopkins Hosp., 1932-33; Asst. Prof. Neurol. and Psychiatry, Univ. of Nebraska; in practice, Omaha, Neb.

YOUNGE, PAUL A.

A.B., Univ. of Wis., 1927; M.D., Harv., 1931; *Surg. H. O., P. B. B. H.*, 1931-32; Resident, Free Hosp. for Women, Brookline, Mass., 1932-34; Asst. Pathol. and Asst. Visit. Surg., *ibid.*

Former 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., November 1929-November 1930*; Leeds, Englands.

ASHER, ARTHUR GRAHAM

M.D., Rush Medical College, Chicago; *P. B. B. H., Med., October 1930-October 1931*; Kansas City, Mo.

AYMAN, DAVID

M.D., Harv., 1926; Research Fellow in Med., Harv., 1933-34; *P. B. B. H., Med., 1933-34*; Boston, Mass.

BAGDASAR, DIMITRI

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

BARTRAM, EDWARD ALEXANDER

M.D., Univ. of Western Ontario, London, Canada, 1928; *P. B. B. H., Med., October 1931-August 1932*; London, Canada.

BELL, DONALD C.

M.D., Columbia, 1914; *P. B. B. H., Med., 1923-24*; Asst. Clin. Prof. Cleveland, Ohio.

BREMER, FREDERIC

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

BRILL, I. C.

M.D., Columbia, 1914; *P. B. B. H., Med., 1923-24*; Asst. Clin. Prof. Med., Univ. of Oregon; Portland, Ore.

BROWN, MORTON G.

A.B., Harv., 1927; M.D., *ibid.*, 1931; *P. B. B. H., Med., 1933-34*; Asst. in Med., Harv.; Asst. Phys., Beth Israel Hosp.; Boston, Mass.

BRUGSCH, HEINRICH

M.D., Berlin, 1927; Fellow of Akademische and Austausch-dients; *P. B. B. H., Med., 1929-30*; Boston Disp., Boston, Mass.

BRYAN, A. HUGHES

M.D., Harv., 1931; Research Fellow in Med., Harv., 1933-34; *P. B. B. H., Med., 1933-34*.

COURVILLE, CYRIL B.

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

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DECAMPS, NESTOR

M.D., Brussels, 1925; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med.*, 1926-27.

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.*, September 1929-August 1930; Inselspital, Berne, Switzerland.

DEERY, EDWIN M.

M.D., Harv., 1926; *P. B. B. H., Surg.*, November 1928-September 1929; New York City.

FANG, I-CHI

M.D., Peiping Union Medical College, 1922; *P. B. B. H., Administration*, 1931.

FINCHER, JR., EDGAR F.

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

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.*, November 1928-January 1929; London Hosp., London, England.

GRANT, FRANCIS C.

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

GROFF, RICHARD ARMAND

M.D., Univ. of Pennsylvania, 1928; *P. B. B. H., Surg.*, 1931.

HALPENNY, ATTRACTA

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

HOLLAND, CLYDE

M.S., C.M., Dalhousie, 1923; Fellow of Rockefeller Foundation; *P. B. B. H., Med.*, 1929-30; Halifax, N. S.

ISAACS, RAPHAEL

M.D., Cincinnati, 1918; *P. B. B. H., Med.*, 1922-23; Asst. Prof. of Medicine, Univ. of Michigan.

KAPLAN, ABRAHAM

M.D., Harvard, 1927; *P. B. B. H., Surg.*, 1931.

KINDALL, LLOYD E.

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

FORMER VOLUNTARY GRADUATE ASSISTANTS

KOTTKE, ELMER E.

M.D., Northwestern Univ., Chicago; *P. B. B. H., Med., October 1930-May 1931*; Des Moines, Iowa.

KREDEL, FREDERICK E.

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

KUBIE, LAWRENCE S.

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

LAWS, CLARENCE L.

M.D., Emory, 1930; Assistant Resident Physician, Vanderbilt University Hosp., Nashville, Tenn., 1931-32; *P. B. B. H., Med., August 1932-May 1933*.

LEE, FERDINAND C.

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

LEHMAN, WALTER

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

LIST, CARL FELIX

M.D., Berlin, Germany, 1926; *P. B. B. H., Surg., 1931*; Berlin, Germany.

LYNCH, RALPH

M.D., Pennsylvania, 1923; *P. B. B. H., Med., 1927-28*; Pittsburgh, Pa.

MATTON, MARCEL

M.D., Ghent, 1929; Fellow of Commission for Relief of Belgium Education Foundation; *P. B. B. H., Med., 1924-25*; Ghent, Brussels.

MEACHEN, JOHN W.

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

MENTZER, JOHN H.

M.D., Univ. of Pa., 1930; *P. B. B. H., Med., 1932-33*; Philadelphia, Pa.

MORELLE, JEAN

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

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OLJENICK, IGNATIUS

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

PARKS, ARTHUR E.

M.D., Univ. Toronto, 1930; Vol. Research Worker, Toronto Western Hosp.; *P. B. B. H., Med., 1934*; Toronto, Canada.

PATTISON, ALFRED RICHARD DENIS

M.B., B.S., Durham, England, 1929; Surg. Registrar, Resident Medical Officer, Royal Victoria Infirmary, Newcastle upon Tyne, England; *P. B. B. H., Surg., March-September 1932*.

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., October 1923-January 1924*.

RIVES, JOHANNES

Rockefeller Foundation Fellow, Esthonia; *P. B. B. H., Surg., 1931*.

ROSENBLUM, HAROLD HERBERT

M.D., Univ. of California Med. School, 1930; Research Fellow, Harv., July, 1931-July, 1932; *P. B. B. H., Med., July, 1931-July, 1932*; San Francisco, Calif.

SCHALTENBRAND, GEORG

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

SCHLESINGER, BENNO

Univ. of Vienna, Austria; *P. B. B. H., Surg., 1931*.

SCHONBAUER, LEOPOLD

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

SCRIVER, WALTER DE M.

M.D., McGill, 1921; Fellow of National Research Council; *P. B. B. H., Med., 1925-26*; Montreal, Canada.

SEPPANEN, ANNI DAGMAR

Dr. of Med. and Surg., Helsinki Univ., 1931; *P. B. B. H., Med., 1932-33*; Helsingfors, Finland.

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.,*

FORMER VOLUNTARY GRADUATE ASSISTANTS

- Surg., October-November 1929; Asst. Surgeon, Birmingham General Hospital, Birmingham, England.*
- STARR, M. P.
M.D., Rush, 1922; *P. B. B. H., Med., 1923-24; Asst. Prof. of Med., Northwestern Univ.; Chicago, Ill.*
- TAUSSIG, BARRETT
M.D., Washington Univ., 1932; Research Worker, *ibid.*, January-July 1934; *P. B. B. H., Med., 1934-35; St. Louis, Mo.*
- THOMPSON, WILLIAM PAUL
M.D., Harv., 1931; Asst. Res. in Med., New York Hosp., 1933-34; *P. B. B. H., Med., 1934-35; Los Angeles, Calif.*
- TOWNSEND, STUART R.
M.D., C.M., McGill, 1933; House Officer and Resident, Montreal Gen. Hosp., 1933-36; Research Fellow in Med., Harv., 1936-37; *P. B. B. H., Med., 1936-37.*
- VAN DESSEL, ARTHUR
M.D., Univ. of Louvain, 1920; C.R.B., Educational Foundation Fellowship; *P. B. B. H., Surg., February 1925-July 1925.*
- VOTQUENNE, MARIUS
Docteur en Medicine, Chirurgie, Univ. of Brussels, 1933; *P. B. B. H., Surg., 1935-36; Brussels, Belgium.*
- WÖRNER, EDWARD
M.D., Univ. of Munich, Germany; *P. B. B. H., Roentgenology, 1932; Munich, Germany.*
- ZEITLIN, ALEXANDER
M.D., Univ. of Warsaw, 1917; Assoc. Surg., Surgical Clin., North Caucasian Univ., Rostov; *P. B. B. H., Surg., December 1930-January 1931.*
- ZUBIRAN, SALVADOR
M.D., Univ. of Mexico, 1923; *P. B. B. H., Med., 1923-24; Prof. de Clinica Medica en la Facultad de Medicina, Univ. of Mexico, Mexico City.*

Register of 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
May 8, 1902	WILLIAM R. TRASK	Died February 1, 1933
May 8, 1902	LAURENCE H. H. JOHNSON	Died June 24, 1934
Oct. 2, 1902	AUGUSTUS HEMENWAY	Resigned September 12, 1919

Appointed

June 16, 1909	*JOHN P. REYNOLDS	Died December 9, 1920
Apr. 15, 1915	CHARLES P. CURTIS	Resigned January 9, 1936
Feb. 7, 1918	FRANCIS L. HIGGINSON	Resigned July 8, 1932
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
Mar. 26, 1925	HARRY L. BAILEY	Resigned September 13, 1935
May 14, 1931	CHARLES A. COOLIDGE, JR.	Resigned March 12, 1935

* *Appointed by the Governor of Massachusetts.*

Officers of the Institution, 1938

President

WILLIAM AMORY

Treasurer

RIPLEY L. DANA

Assistant Treasurer

ROBERT CUTLER

Secretary

HENRY B. CABOT

Assistant Secretary

RICHARD S. RUSSELL

MEMBERS OF THE CORPORATION

Appointed

Jan. 5, 1921	WILLIAM AMORY	..... 179 Commonwealth Ave.	Boston
Nov. 8, 1934	HENRY B. CABOT	..... 50 Federal St.	Boston
May 8, 1902	EDMUND D. CODMAN	..... 27 Kilby St.	Boston
June 11, 1936	T. JEFFERSON COOLIDGE	..... First National Bank, Milk St.	Boston
Mar. 25, 1931	RICHARD C. CURTIS	..... 30 State St.	Boston
Feb. 13, 1936	ROBERT CUTLER	..... 1 Federal St.	Boston
May 14, 1936	RIPLEY L. DANA	..... 1 Federal St.	Boston
Mar. 26, 1925	PAUL E. FITZPATRICK	.... 104 Kingston St.	Boston
June 16, 1909	*IRVIN MCD. GARFIELD	..... 30 State St.	Boston
Apr. 13, 1933	THEODORE LYMAN	..... 105 Heath St.	Chestnut Hill
Jan. 27, 1938	ALLYN B. McINTIRE	..... 160 State St.	Boston
Mar. 27, 1924	RICHARD S. RUSSELL	..... 50 State St.	Boston
July 24, 1936	†JOHN H. WALSH	..... 1040 Main St.	Waltham

STANDING COMMITTEES OF THE CORPORATION

Building Committee

IRVIN MCD. GARFIELD, *Chairman* JOHN H. WALSH
HENRY B. CABOT PAUL E. FITZPATRICK

Auditing Committee

THEODORE LYMAN

* Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires May 11, 1939.

† Appointed by the Governor of the Commonwealth under an act approved May 8, 1909. Commission expires July 24, 1942.

PETER BENT BRIGHAM HOSPITAL

Committee on Finances

T. JEFFERSON COOLIDGE, *Chairman* RICHARD C. CURTIS
RIPLEY L. DANA RICHARD S. RUSSELL
ROBERT CUTLER

Committee on Heat, Light, and Power

IRVIN MCD. GARFIELD, *Chairman* ROBERT CUTLER
EDMUND D. CODMAN

Committee on Nominations

HENRY B. CABOT, *Chairman* RICHARD C. CURTIS

Committee on Rules

IRVIN MCD. GARFIELD EDMUND D. CODMAN
ROBERT CUTLER

Budget Committee

WILLIAM AMORY ROBERT CUTLER
RIPLEY L. DANA

SCHOOL OF NURSING

Advisory Committee

WILLIAM AMORY HENRY A. CHRISTIAN, M.D.
ALLYN B. McINTIRE ELLIOTT C. CUTLER, M.D.
JOSEPH B. HOWLAND, M.D., *Superintendent* PRES. ADA COMSTOCK
LUCY H. BEAL, B.S., R.N., *Principal* MRS. GEORGE C. SHATTUCK
MRS. COLLINS GRAHAM

LADIES' SOCIAL SERVICE COMMITTEE

MRS. DAVID CHEEVER, *Chairman* MRS. DONALD MCKAY FROST
MRS. J. A. LOWELL BLAKE, MRS. F. L. HIGGINSON
Acting Chairman MRS. JOHN HOMANS
MISS KATHARINE HOMANS, *Secretary* MRS. LYMAN H. HGYT
MRS. ROGER B. MERRIMAN, *Treasurer* MRS. WALTER HUNNEWELL
MRS. HARRY C. BLOTNER MRS. FRANC D. INGRAHAM
MRS. DAVID CHEEVER, JR. MRS. L. H. H. JOHNSON
MRS. F. D. COCHRANE MRS. SAMUEL A. LEVINE
MRS. ELLIOTT C. CUTLER MRS. ROBERT T. MONROE
MRS. GEORGE P. DENNY MRS. RICHARD C. PAINE
MRS. E. STANLEY EMERY, JR. MRS. MERRILL C. SOSMAN
MRS. REGINALD FITZ MRS. S. BURT WOLBACH
MRS. F. MURRAY FORBES MRS. ROBERT ZOLLINGER

VISITING COMMITTEE FOR 1938

THEODORE LYMAN January
PAUL E. FITZPATRICK..... February

OFFICERS OF THE INSTITUTION

RICHARD S. RUSSELL.....	March
RICHARD C. CURTIS.....	April
HENRY B. CABOT	May
ROBERT CUTLER	June
EDMUND D. CODMAN.....	July
RIPLEY L. DANA	August
IRVIN McD. GARFIELD.....	September
T. JEFFERSON COOLIDGE	October
ALLYN B. McINTIRE	November
JOHN H. WALSH	December

EXECUTIVE COMMITTEE OF THE STAFF

HENRY A. CHRISTIAN, M.D.	S. BURT WOLBACH, M.D.
ELLIOTT C. CUTLER, M.D.	JOSEPH B. HOWLAND, M.D., <i>Secretary</i>

ADMINISTRATIVE DEPARTMENT

	<i>Service began</i>	<i>Superintendent</i>
May	1, 1919	JOSEPH B. HOWLAND, M.D.

		<i>Assistant Superintendents</i>
Mar.	5, 1934	WILSON W. KNOWLTON, M.D.
Apr.	8, 1937	WINTHROP B. OSGOOD, M.D.

		<i>Executive Assistant</i>
June	18, 1935	EVA McCOMB THOMAS, R.N.

BOARD OF CONSULTATION

	<i>Appointed</i>	
Mar.	25, 1912	WALTER B. CANNON, M.D., <i>Consulting Physiologist</i>
Mar.	8, 1928	GEORGE R. MINOT, M.D., <i>Consulting Physician</i>
Apr.	12, 1923	HANS ZINSSER, M.D., <i>Consulting Bacteriologist</i>
Oct.	13, 1932	E. LAWRENCE OLIVER, M.D., <i>Consulting Dermatologist</i>
Jan.	1, 1933	CHANNING FROTHINGHAM, M.D., <i>Consulting Physician</i>
Jan.	1, 1933	LEROY M. S. MINER, D.M.D., <i>Consulting Dental Surgeon</i>
Mar.	8, 1934	J. HERBERT WAITE, M.D., <i>Consulting Ophthalmologist</i>
Oct.	10, 1935	A. BAIRD HASTINGS, Ph.D., <i>Consulting Chemist</i>
Sept.	1, 1936	REGINALD FITZ, M.D., <i>Consulting Physician</i>
May	13, 1937	WILLIAM E. LADD, M.D., <i>Consulting Surgeon</i>

MEDICAL DEPARTMENT

	<i>Service began</i>	
May	1, 1912	HENRY A. CHRISTIAN, M.D., <i>Physician-in-Chief</i>
Sept.	1, 1934	MARSHALL N. FULTON, M.D., <i>Physician</i>
Sept.	1, 1935	C. SIDNEY BURWELL, M.D., <i>Physician</i>
Sept.	1, 1935	ROBERT T. MONROE, M.D., <i>Physician</i>
July	1, 1915	JAMES P. O'HARE, M.D., <i>Senior Associate in Medicine</i>
Aug.	8, 1919	SAMUEL A. LEVINE, M.D., <i>Senior Associate in Medicine</i>

PETER BENT BRIGHAM HOSPITAL

Service began

May 24, 1928	JOSEPH C. AUB, M.D., <i>Senior Associate in Medicine</i>
Jan. 24, 1935	WILLIAM P. MURPHY, M.D., <i>Senior Associate in Medicine</i>
Sept. 1, 1935	CLIFFORD L. DERICK, M.D., <i>Senior Associate in Medicine</i>
Dec. 12, 1912	NATHANIEL K. WOOD, M.D., <i>Associate in Medicine</i>
July 1, 1915	GEORGE P. DENNY, M.D., <i>Associate in Medicine</i>
Sept. 1, 1915	I. CHANDLER WALKER, M.D., <i>Associate in Medicine</i>
Sept. 12, 1919	DONALD J. MACPHERSON, M.D., <i>Associate in Medicine</i>
Nov. 12, 1925	GUSTAVE P. GRABFIELD, M.D., <i>Associate in Medicine</i>
May 10, 1926	EDWARD S. EMERY, JR., M.D., <i>Associate in Medicine</i>
Jan. 1, 1934	F. WILLIAM MARLOW, JR., M.D., <i>Associate in Medicine</i>
Jan. 1, 1934	HARRY H. BLOTNER, M.D., <i>Associate in Medicine</i>
May 9, 1935	LYMAN H. HOYT, M.D., <i>Associate in Medicine</i>
Dec. 10, 1936	JOHN M. FLYNN, M.D., <i>Associate in Medicine</i>
Dec. 10, 1936	WILLIAM T. SALTER, M.D., <i>Associate in Medicine</i>
Oct. 26, 1933	EARLE A. HARVEY, M.D., <i>Junior Associate in Medicine</i>
Oct. 11, 1934	DAVID L. HALBERSLEBEN, M.D., <i>Junior Associate in Medicine</i>
Oct. 11, 1934	CHARLES F. WALCOTT, M.D., <i>Junior Associate in Medicine</i>
Nov. 1, 1935	HARRY A. WARREN, M.D., <i>Junior Associate in Medicine</i>
Jan. 23, 1936	GEORGE W. LYNCH, M.D., <i>Junior Associate in Medicine</i>
Aug. 1, 1936	ANDREW W. CONTRATTO, M.D., <i>Junior Associate in Medicine</i>
Oct. 8, 1936	ROBERT FLEMING, M.D., <i>Junior Associate in Medicine</i>
Oct. 8, 1936	HARRY B. FRIEDGOOD, M.D., <i>Junior Associate in Medicine</i>
July 16, 1937	EUGENE C. EPPINGER, M.D., <i>Junior Associate in Medicine</i>
Oct. 14, 1937	JOHN G. GIBSON, M.D., <i>Junior Associate in Medicine</i>
Aug. 1, 1936	MAURICE A. SCHNITKER, M.D., <i>Resident Physician</i>
Aug. 1, 1936	EDWARD MASSIE, M.D., <i>Assistant Resident Physician</i>
July 1, 1937	RICHARD H. LYONS, M.D., <i>Assistant Resident Physician</i>
July 1, 1937	JESSE C. LOCKHART, M.D., <i>Assistant Resident Physician</i>
Aug. 1, 1937	HARALD N. JOHNSON, M.D., <i>Assistant Resident Physician</i>
Aug. 1, 1937	ROGER W. ROBINSON, M.D., <i>Assistant Resident Physician</i>
Oct. 1, 1937	ROBERT B. RUTHERFORD, M.D., <i>Assistant Resident Physician</i>
Jan. 1, 1938	DANIEL M. SWAN, M.D., <i>Assistant Resident Physician</i>

SURGICAL DEPARTMENT

Service began

Sept. 1, 1932	ELLIOTT C. CUTLER, M.D., <i>Surgeon-in-Chief</i>
Oct. 13, 1932	HARVEY CUSHING, M.D., <i>Surgeon-in-Chief Emeritus</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>
Mar. 26, 1936	FRANK R. OBER, M.D., <i>Orthopedic Surgeon</i>
Jan. 9, 1936	LYMAN G. RICHARDS, M.D., <i>Otolaryngologist</i>
June 15, 1924	FRANCIS C. NEWTON, M.D., <i>Senior Associate in Surgery</i>

OFFICERS OF THE INSTITUTION

Service began

Dec. 9, 1937	ROBERT ZOLLINGER, M.D., <i>Senior Associate in Surgery</i>
Dec. 9, 1937	HARLAN F. NEWTON, M.D., <i>Senior Associate in Surgery</i>
Mar. 8, 1934	TRYGVE GUNDERSON, M.D., <i>Associate in Ophthalmology</i>
Oct. 7, 1929	MOSES S. STROCK, D.M.D., <i>Dental Surgeon</i>
May 1, 1933	WILLIAM T. GREEN, M.D., <i>Junior Associate in Orthopedic Surgery</i>
Oct. 26, 1933	ALBERT H. BREWSTER, M.D., <i>Junior Associate in Orthopedic Surgery</i>
Oct. 10, 1935	FLETCHER H. COLBY, M.D., <i>Junior Associate in Urological Surgery</i>
Dec. 13, 1934	GEORGE F. WILKINS, M.D., <i>Junior Associate in Surgery</i>
Mar. 28, 1935	LEE G. KENDALL, M.D., <i>Junior Associate in Surgery</i>
Nov. 12, 1936	LESLIE VAN RAALTE, M.D., <i>Junior Associate in Surgery</i>
Oct. 8, 1936	HARRY STONE, D.M.D., <i>Junior Associate in Dental Surgery</i>
July 1, 1937	CARL WALTER, M.D., <i>Junior Associate in Surgery</i>
Oct. 1, 1937	JOHN F. BELL, M.D., <i>Junior Associate in Surgery</i>
Oct. 14, 1937	MICHEL PIJOAN, M.D., <i>Junior Associate in Surgery</i>
July 16, 1937	SAMUEL CLINE, M.D., <i>Junior Associate in Otolaryngology</i>
Oct. 14, 1937	CARLISLE G. FLAKE, M.D., <i>Junior Associate in Otolaryngology</i>
July 1, 1937	JOHN L. KEELEY, M.D., <i>Harvey Cushing Fellow</i>
Dec. 1, 1936	JOHN E. DUNPHY, M.D., <i>Resident Surgeon</i>
Nov. 1, 1936	RICHARD WARREN, M.D., <i>Assistant Resident Surgeon</i>
Mar. 1, 1937	BENJAMIN REITER, M.D., <i>Assistant Resident Surgeon</i>
July 1, 1937	J. HARTWELL HARRISON, M.D., <i>Assistant Resident Surgeon</i>
Nov. 1, 1937	WILLIAM S. McCUNE, M.D., <i>Assistant Resident Surgeon</i>
Feb. 10, 1938	ALBERT Y. KEVORKIAN, M.D., <i>Acting Assistant Resident Surgeon</i>

PATHOLOGICAL DEPARTMENT

Service began

Dec. 1, 1916	S. BURT WOLBACH, M.D., <i>Pathologist</i>
Sept. 1, 1937	GUY D. AYER, M.D., <i>Resident Pathologist</i>

ROENTGENOLOGICAL DEPARTMENT

Service began

May 15, 1922	MERRILL C. SOSMAN, M.D., <i>Roentgenologist</i>
Sept. 8, 1933	HUGH F. HARE, M.D., <i>Associate in Roentgenology</i>
Dec. 9, 1937	JOSEPH H. MARKS, M.D., <i>Associate in Roentgenology</i>
July 1, 1937	DAVID A. SAMPSON, M.D., <i>Senior Assistant Resident in Roentgenology</i>
July 1, 1937	JOHN C. LARKIN, M.D., <i>Junior Assistant Resident in Roentgenology</i>
July 1, 1937	WALLACE C. MILLER, M.D., <i>House Officer in Roentgenology</i>

PETER BENT BRIGHAM HOSPITAL

MEDICAL HOUSE OFFICERS

<i>Service began</i>			<i>Service ended</i>	
Oct. 15, 1935	RICHARD H. LYONS, M.D.....		July 1, 1937	
Oct. 15, 1935	CHARLES P. ROBERTS, M.D.....		July 1, 1937	
Oct. 15, 1935	CHARLES BRENNER, M.D.....		July 1, 1937	
Oct. 15, 1935	WILLIAM J. CLAUSER, M.D.....		Nov. 1, 1936	
Oct. 15, 1935	CHARLES B. KIMMEL, M.D.....		Nov. 1, 1936	
Oct. 15, 1935	DALE G. FRIEND, M.D.....		Nov. 1, 1936	
Feb. 15, 1936	JAMES E. ROBERTSON, M.D.....		Nov. 1, 1937	
Feb. 15, 1936	ARTHUR J. HADLER, M.D.....		Jan. 1, 1938	
Feb. 15, 1936	ROY L. SWANK, M.D.....		Nov. 1, 1937	
June 15, 1936	MILTON R. WEED, M.D.....		Mar. 1, 1938	
June 15, 1936	MAX KUTZER, M.D.....		Mar. 1, 1938	
June 15, 1936	GEORGE H. REIFENSTEIN, M.D.....		Mar. 1, 1938	

<i>Service began</i>			<i>Service will end</i>	
Oct. 15, 1936	WILLIAM C. McCLURE, M.D.....		July 1, 1938	
Oct. 15, 1936	RICHARD N. TILLMAN, M.D.....		July 1, 1938	
Oct. 15, 1936	FRANCIS J. BROWN, M.D.....		July 1, 1938	
Feb. 15, 1937	KARL SHEPARD, M.D.....		Nov. 1, 1938	
Feb. 15, 1937	JOHN B. O'CONNOR, M.D.....		Nov. 1, 1938	
Feb. 15, 1937	EDWARD J. WELCH, M.D.....		Nov. 1, 1938	
June 15, 1937	JOSEPH R. FROTHINGHAM, M.D.....		Mar. 1, 1939	
June 15, 1937	DAVID M. GREELEY, M.D.....		Mar. 1, 1939	
June 15, 1937	HAROLD M. HORACK, M.D.....		Mar. 1, 1939	
Oct. 15, 1937	CHARLES F. STONE, JR., M.D.....		July 1, 1939	
Oct. 15, 1937	RALPH C. MOORE, M.D.....		July 1, 1939	
Oct. 15, 1937	JOHN C. NUNEMAKER, M.D.....		July 1, 1939	
Feb. 15, 1938	ALBERT C. ENGLAND, JR., M.D.....		Nov. 1, 1939	
Feb. 15, 1938	ALBERT J. ERDMANN, JR., M.D.....		Nov. 1, 1939	
Feb. 15, 1938	DANIEL W. BADAL, M.D.....		Nov. 1, 1939	

SURGICAL HOUSE OFFICERS

<i>Service began</i>			<i>Service ended</i>	
Oct. 15, 1935	ARCHIBALD W. DIACK, M.D.....		Mar. 1, 1937	
Oct. 15, 1935	ROBERT D. WHITFIELD, M.D.....		May 1, 1937	
Feb. 15, 1936	JOHN F. BELL, M.D.....		Oct. 1, 1937	
Feb. 15, 1936	RICHARD T. MUNCE, M.D.....		July 1, 1937	
June 15, 1936	STANLEY O. HOERR, M.D.....		Feb. 1, 1938	
June 15, 1936	FRANKLYN D. BURGER, M.D.....		Dec. 1, 1937	
July 1, 1936	FREMONT R. BROOKS, D.M.D.....		July 1, 1937	
Oct. 15, 1936	JAMES B. BLODGETT, M.D.....		Mar. 1, 1938	

<i>Service began</i>			<i>Service will end</i>	
May 1, 1937	PAUL D. GIDDINGS, M.D.....		June 1, 1938	
July 1, 1937	THOMAS W. BOTSFORD, M.D.....		Aug. 1, 1938	
July 1, 1937	ALVIN E. STROCK, D.M.D.....		July 1, 1938	
Oct. 1, 1937	HERMON Y. TYLER, M.D.....		Oct. 1, 1938	
Dec. 1, 1937	JAMES B. CAMPBELL, M.D.....		Dec. 1, 1938	
Feb. 1, 1938	JAMES W. HAWKINS, M.D.....		Feb. 1, 1939	

OFFICERS OF THE INSTITUTION

COMBINED PETER BENT BRIGHAM-CHILDREN'S HOSPITAL SERVICE

<i>Service began</i>			<i>Service will end</i>	
Oct.	15, 1936	CLAIRE F. GOERINGER, M.D.....	Mar.	1, 1939
Mar.	1, 1937	JOHN H. KENNARD, M.D.....	Aug.	1, 1939
May	1, 1937	DEAN W. TANNER, M.D.....	Oct.	1, 1939
July	1, 1937	JOHN A. SANDMEYER, M.D.....	Dec.	1, 1939
Sept.	1, 1937	ROBERT S. MYERS, M.D.....	Feb.	1, 1940
Nov.	1, 1937	MCCHORD WILLIAMS, M.D.....	Apr.	1, 1940
Jan.	1, 1938	ROBERT R. WHITE, M.D.....	June	1, 1940
Mar.	1, 1938	RUTLEDGE W. HOWARD, M.D.....	Aug.	1, 1940

PATHOLOGICAL HOUSE OFFICERS

<i>Service began</i>		
July	1, 1937	HENRY J. TWEDDELL, M.D.
Jan.	1, 1938	CHARLES M. CAMPBELL, JR., M.D.

SCHOOL OF NURSING

*Superintendent of Nurses and
Principal of the School of Nursing*

<i>Service began</i>		
July	1, 1937	LUCY H. BEAL, B.S., R.N.
<i>Assistant Superintendent of Nurses</i>		
Aug.	1, 1937	FRANCES W. BOWEN, B.S., R.N.
<i>Instructor in Theory</i>		
Sept.	3, 1935	ELSIE L. CAMPBELL, B.S., R.N.
<i>Instructor in Nursing Arts</i>		
July	6, 1937	BERNICE J. SINCLAIR, B.S., R.N.
<i>Instructor in Operating Room Technique</i>		
Sept.	6, 1937	ESTHER KINNEY, R.N.
<i>Supervisors</i>		
Sept.	6, 1932	FRANCES M. DAGGETT, R.N.
Sept.	1, 1937	ETHEL M. JORDAN, R.N.
Sept.	6, 1937	HELEN L. AIKINS, R.N.
Nov.	20, 1932	CATHERINE RICHARDS, R.N.
<i>Night Supervisors</i>		
Feb.	17, 1936	ROBERTA C. COBB, R.N.
May	10, 1937	RUTH MILLER, R.N.
Chief—Social Service Department		
Aug.	17, 1914	ALICE M. CHENEY, R.N.

PETER BENT BRIGHAM HOSPITAL

Dietitian

Service began
Aug. 1, 1931 GERTRUDE McDONALD, 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

Sept. 1, 1934 PAULINE E. SMITH

Housekeeper

Sept. 1, 1933 ANN M. LEWIS

Chief—Mechanical Departments

Oct. 21, 1911 JOHN A. AITKEN



