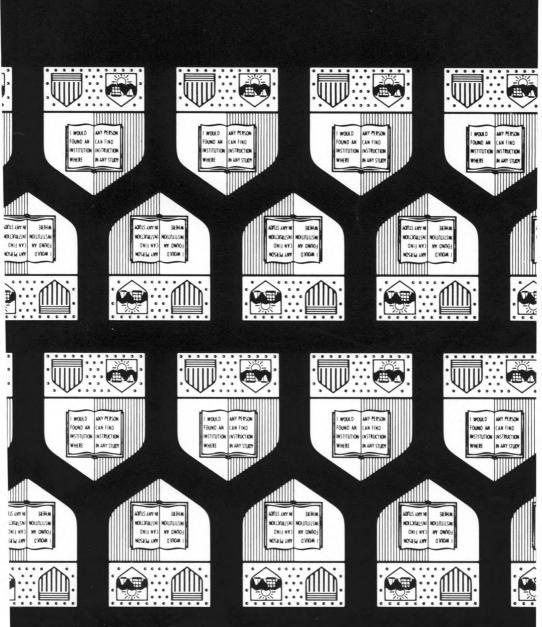
Cornell University Announcements

Medical College





# **Cornell University**

Medical College 1300 York Avenue New York, New York 10021 Telephone 212/472-5454

1980-81

# Cornell University Announcements (USPS 132-860)

Volume 72 of the Cornell University Announcements consists of fifteen catalogs, of which this is number 13, dated August 22, 1980. Issued fifteen times a year: four times in May and August, three times in July, and once in March, April, June, and October. Published by Cornell University, Sheldon Court, 420 College Avenue, Ithaca, New York 14850. Second-class postage paid at Ithaca, New York.



# **Announcements**

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The provisions of this publication are not to be regarded as an irrevocable contract between the student and Cornell University Medical College. The University reserves the right to change any provision or requirement at any time.

# Medical College Calendar

### First Year

#### 1980

Monday, September 1

Tuesday and Wednesday, September 2 and 3

Wednesday, September 3

Thursday, September 4

Wednesday, November 19

Thursday, November 20-Wednesday, November 26

Thursday and Friday, November 27 and 28

Monday, December 1

Friday, December 19

Labor Day

Registration and orientation

Opening exercises, 3:00 p.m.

Instruction begins, 9:00 a.m.

First trimester ends, 5:00 p.m.

Examinations

Thanksgiving holiday

Second trimester begins, 9:00 a.m.

Winter recess begins, 5:00 p.m.

# 1981

Monday, January 5

Monday, February 16

Friday, February 20

Monday, February 23-Friday, March 6

Monday, March 9

Saturday, April 11-Sunday, April 19

Monday, April 20

Monday, May 25

Friday, May 29

Monday, June 1-Friday, June 5

Winter recess ends; instruction begins, 9:00 a.m.

Washington's Birthday

Second trimester ends, 5:00 p.m.

Examinations

Third trimester begins, 9:00 a.m.

Spring recess

Instruction begins, 9:00 a.m.

Memorial Day

Instruction ends, 5:00 p.m.

Examinations

The dates on this calendar are subject to change at any time by official action of Cornell University.

In enacting this calendar, the Medical College has scheduled classes on religious holidays. It is the intent of the college that students missing classes due to the observance of religious holidays be given ample opportunity to make up work.

### Second Year

# 1980

Monday, September 1

Tuesday and Wednesday, September 2 and 3

Wednesday, September 3 Thursday, September 4

Wednesday, November 19

Thursday, November 20-Wednesday, November 26

Thursday and Friday, November 27 and 28

Monday, December 1

Friday, December 9

Labor Day

Registration

Opening exercises, 3:00 p.m.

Instruction begins, 9:00 a.m.

First trimester ends, 5:00 p.m.

Examinations

Thanksgiving holiday

Second trimester begins, 9:00 a.m.

Winter recess begins, 5:00 p.m.

### 1981

Monday, January 5

Monday, February 16

Wednesday, February 18

Thursday, February 19-Friday, February 27

Saturday, February 28-Sunday, March 8

Monday, March 9

Friday, May 22

Monday, May 25

Tuesday, May 26-Friday, May 29

Winter recess ends, instruction begins 9:00 a.m.

Washington's Birthday

Second trimester ends, 5:00 p.m.

Examinations

Spring recess

Third trimester begins, 9:00 a.m.

Instruction ends, 5:00 p.m.

Memorial Day

Examinations

Third Year Rotations

	Period 1				Period 2					Period 3				Period 4				
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n Surgery				Surgery		Surgery		Surgery				Spring F			gery			
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<sup>\*</sup> Public Health

#### Third Year

### 1980

Monday, September 1 Tuesday, September 2 Wednesday, September 3

Monday, November 24

Thursday and Friday, November 27 and 28

Saturday, December 20

Labor Day

Registration; Period 1 begins, 7:00 a.m.

Opening exercises, 3:00 p.m. Period 2 begins, 7:00 a.m.

Thanksgiving holiday

Winter recess begins, 1:00 p.m.

### 1981

Monday, January 5 Monday, February 16 Monday, March 2 Saturday, May 23 Monday, June 1 Saturday, July 4 Saturday, August 22

Classes resume, 7:00 a.m. Washington's Birthday Period 3 begins, 7:00 a.m. Spring recess begins, 1:00 p.m. Period 4 begins, 7:00 a.m. Independence Day

Instruction ends, 1:00 p.m.

### Fourth Year

### 1980

Monday, September 1 Tuesday, September 2 Wednesday, September 3 Thursday and Friday, November 27 and 28

Saturday, December 20

Labor Day Registration

Opening exercises, 3:00 p.m.

Thanksgiving holiday Winter recess begins

### 1981

Monday, January 5 Monday, February 16 Friday, May 22 Wednesday, May 27

Winter recess ends Washington's Birthday

Instruction ends

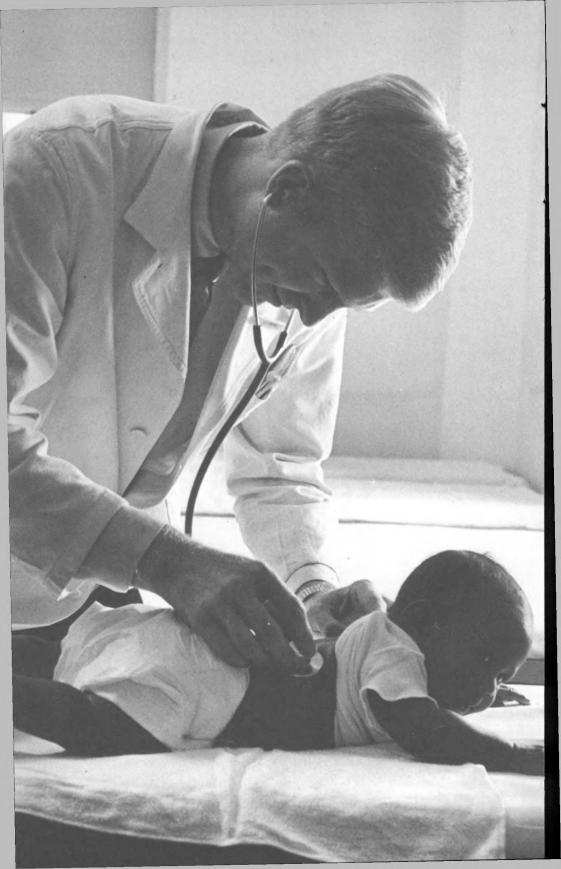
Commencement, 3:00 p.m.

#### **Elective Modules**

Module A Module B Module C Module D Module E Module F Module G Module H Module I

September 2-September 26 September 29-October 24 October 27-November 21 November 24-December 19 January 5-January 30 February 2-February 27 March 2-March 27

March 30-April 24 April 27-May 22



# **Cornell University**

# The Medical College

# **Purpose and History**

Cornell University Medical College has as its aim excellence in its students, who are chosen for admission with the expectation that they will be leaders in the field of medicine. It encourages research and the advancement of medical knowledge not only as an end in itself but also because science is the most important underpinning of the broad knowledge that a medical student must obtain in preparation for further graduate study. To the end that students may become leaders, Cornell strives to stimulate creativity and foster independent thought and study. That they may develop a sense of social commitment, it attempts to expose students to real-life responsibilities in a variety of practice settings, always with attention to the optimal care of patients.

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching opportunities available in a large metropolitan area. The original faculty was composed of a group of distinguished professors who previously had operated a teaching institution known as the Medical College Laboratory. The laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the college for several years, later created a permanent endowment by donating a gift of more than \$4 million to the college.

The first dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, professor of surgery; Dr. James Ewing, professor of pathology, and Dr. Graham Lusk, professor of physiology. The college has been well known from the time of its establishment for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900, the college occupied its first permanent headquarters at Twenty-eighth Street and First Avenue. In 1927, the college entered into its first formal affiliation with The New York Hospital. The college was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

The Medical College moved to its present location in 1932, which marked the opening of The New York Hospital-Cornell Medical Center.

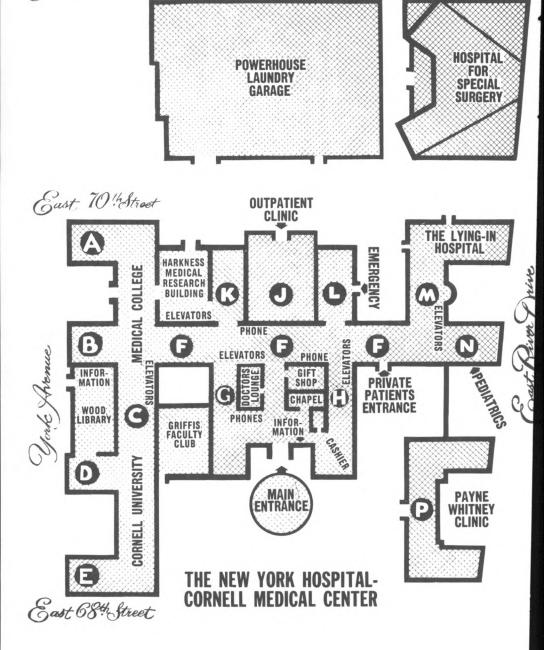
# Facilities for Instruction

# The Medical College

Instruction in the medical sciences is conducted in a series of joined buildings along York Avenue from Sixty-eighth to Seventieth Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the library are on the first floor of this building. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. Additional research and teaching facilities, as well as the central animal care laboratories, are located between the A and B buildings in the William Hale Harkness Medical Research Building. The upper floors of the central portion of the Medical College house the Departments of Microbiology, Pathology, Physiology and Biophysics. and Public Health, along with the research laboratories for several of the clinical departments.

The Department of Anatomy is in the Stavros S. Niarchos Medical Research Building at Seventieth Street (Area A), and the building at the Sixty-eighth Street end of the college (Area E) houses the Departments of Biochemistry and Pharmacology. The central buildings of the college are joined to the main hospital buildings on each of the seven floors. The college auditorium, the student laboratories and lecture rooms for the basic science departments, and the extensive research facilities for staff and students are also housed in the buildings along York Avenue.

East 71 st Street



### Graduate School of Medical Sciences

The Graduate School of Medical Sciences, one of the two academic units on Cornell's New York City campus, was organized in 1952 as a semiautonomous component of the Graduate School of Cornell University and is responsible for administering all advanced general degrees granted for study in residence on the New York City campus. The school is composed of two divisions: the Medical College Division, consisting of faculty members principally from the basic science departments of the Cornell University Medical College, and the Sloan-Kettering Division, consisting of staff members from the Sloan-Kettering Institute for Cancer Research.

The Graduate School of Medical Sciences currently offers graduate programs leading to the M.S. and Ph.D. degrees in twelve biomedical fields: biochemistry, biological structure and cell biology, biology, biomathematics, biophysics, biostatistics, genetics, microbiology, neurobiology and behavior, pathology, pharmacology, and physiology. These programs are designed for students interested in careers in teaching and research in the various basic biomedical sciences

All of the facilities of the Cornell University Medical College and the Sloan-Kettering Institute for Cancer Research are available to graduate students. Such facilities include, in addition to well-equipped classrooms and libraries, unexcelled modern laboratories and equipment for research. For further details, refer to the Announcement of the Graduate School of Medical Sciences.

### The New York Hospital

Clinical instruction is given in the eleven separate departments forming The New York Hospital. The Medical and Surgical Departments occupy the central hospital building, the Women's Clinic (Lying-in Hospital), the Pediatric Department, and the Psychiatric Department (Payne Whitney Clinic) extend from north to south, overlooking the East River,

Each clinic contains facilities for bed patients, an outpatient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building with semiprivate areas for bed patients and three floors for the outpatient department. There are extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semiprivate beds and outpatient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are six floors containing 128 rooms for private patients. Living quarters for the resident staff are in the new house-staff residence across York Avenue. The entire hospital has a capacity of approximately 1,350 beds. The Westchester Division in White Plains, New York, contains an additional 281 beds. This division, together with the Payne Whitney Clinic, forms the Department of Psychiatry of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the hospital. The chairman is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the college and the hospital. Other members of the faculty devote part of their time to private practice.

# The Hospital for Special Surgery

The Hospital for Special Surgery, maintained by the New York Society for the Relief of the Ruptured and Crippled, was founded in 1863 as the first institution in the United States for the treatment of orthopedic conditions. It affiliated with The New York Hospital-Cornell Medical Center in 1949 and moved to its present location at 535 East Seventieth Street in 1955. The hospital consists of a modern facility containing 204 beds, caring for some 3.500 inpatients a year and 11,000 outpatients in nineteen subspecialty clinics. Twentyfour residents are trained in a three-year program in orthopedic surgery with an elective fourth year. The hospital maintains a school for the training of practical

The Philip D. Wilson Research Foundation was opened in 1960 to investigate the causes, prevention, and improvement in the treatment of orthopedic and rheumatic diseases.

The Hospital for Special Surgery provides the orthopedic and rheumatic diseases services for The New York Hospital-Cornell Medical Center.

### The Burke Rehabilitation Center

The Burke Rehabilitation Center, 785 Mamaroneck Avenue, White Plains, New York, was founded in April, 1915, by John Masterson Burke as a tribute to the memory of his mother, Winifred Masterson Burke. On March 14, 1968, the Burke Center became affiliated with The New York Hospital-Cornell Medical Center.

A 150-bed rehabilitation center accredited by the Joint Commission on Accreditation of Hospitals, the Burke Rehabilitation Center offers a multidisciplinary approach to the rehabilitation phase of total medical care. Since the primary objective of its program is the integration of the disabled patient into the community as a responsible individual functioning at maximum potential, the center offers its diagnostic, evaluative, and treatment services to those of all ages who have need for medical rehabilitative care.

The comprehensive program includes: services of physicians trained in rehabilitation and all other medical specialties, nursing care, nutritional research and therapy, occupational therapy, physical therapy, speech and hearing services, psychological and psychiatric services, social services, and vocational evaluation and training.

Among the research and study programs being conducted at the Burke Rehabilitation Center are: a demonstration research program in nutrition and metabolic disease, a stroke research study, a Parkinsonism research study, a cardiopulmonary study, and sociomedical studies.

# Manhattan Eye, Ear, and Throat Hospital

One of the world's principal centers for the diagnosis and treatment of disorders of sight, hearing, and speech, Manhattan Eye, Ear, and Throat Hospital became affiliated with Cornell University and The New York Hospital in 1968. In addition to its programs of patient care and treatment, this hospital now serves as Cornell University Medical College's teaching facility in ophthalmology and otorhinolaryngology and as a patient referral center for those specialties. Medical teaching is under the direction of the Medical College which, along with The New York Hospital, provides a wide range of consultative and other services not ordinarily available in a specialty hospital.

# Memorial Sloan-Kettering Cancer Center

Memorial Hospital is the clinical unit of the Memorial Sloan-Kettering Cancer Center. The Sloan-Kettering Institute for Cancer Research is the research unit.

In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with the Cornell University Medical College in 1914. The agreement between Memorial Hospital and the college requires that the professional staff of the hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital for Cancer and Allied Diseases has nearly 600 beds.

Sloan-Kettering Institute, founded in 1945, brought a major research establishment into this large and active cancer treatment center.

# North Shore University Hospital

North Shore University Hospital is a 599-bed, general care, voluntary institution in Manhasset, Long Island, serving heavily populated portions of Nassau, Suffolk, and Queens Counties. It became formally affiliated with Cornell University Medical College in 1969.

All members of the medical staff of North Shore University Hospital are appointed to the faculty of the Medical College and participate in its teaching programs. In addition, each clinical service has a staff of full-time faculty members involved in research, teaching, and clinical activities. Through outpatient and educational services, emergency facilities and outreach clinics, and an extensive home-care hospice program, North Shore University Hospital's community-oriented program provides an important experience for students in the Medical College. Opportunities for clinical instruction are provided in medicine, neurology, surgery, ophthalmology, pediatrics, pathology, psychiatry, radiology, and obstetrics-gynecology at the second-, third-, and fourth-year student levels. Since 1967, joint programs of internship, residency, and fellowship training have been offered in conjunction with The New York Hospital and Memorial Sloan-Kettering Cancer Center

### The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886 at 414 East Twenty-sixth Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

# The Russell Sage Institute of Pathology

The Russell Sage Institute of Pathology became associated with the Medical College in 1912, and moved its laboratories to the Medical College in 1932. Since 1976, by agreement with the Russell Sage Foundation, its endowment has been administered by Cornell University. The institute has long supported research in metabolism and more recently work in genetics and human ecology. The chairman of the Department of Medicine is the scientific director of the institute.

### Libraries

### Samuel J. Wood Library

The main library of the Medical College is located on the first floor of the Samuel J. Wood Library and Research Building, to the right of the 1300 York Avenue entrance at Sixty-ninth Street.

Eighteen hundred current journals are received and the total collection has reached more than 100,000 volumes. Participation in communication and library networks enables the library to produce needed items quickly.

The library is equipped with a communications terminal linked to a computer to provide searches of the medical literature. The information and reference department receives requests for these searches. Typing facilities, duplicating services and, most importantly, a staff willing to help, are also available.

The Cornell Medical Consortium provides materials and consultation services in self instruction and also obtains films. An in-house collection of audiovisual materials is available

The Audiovisual Services Department provides projection equipment and services and room reservations for meetings and conferences.

The library is open during the week from 7:00 a.m. until midnight, on Saturdays from 9:00 a.m. until 8:00 p.m., and on Sundays from noon until midnight. The library is closed on Christmas, New Year's Day, and other holidays, and special schedules are announced.

#### **Department Libraries**

Several departments also have libraries housing journals and books pertaining to specific areas. These collections, photocopies of materials from other libraries, including the National Library of Medicine and all major medical and academic libraries in the United States, supplement the holdings of the main library.

### The Oskar Diethelm Historical Library

Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly ten thousand original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

# Admissions

# Requirements

In defining the qualifications for admission, the faculty of Cornell University Medical College attaches particular importance to the liberal and general education implied by the acquisition of a college degree. Although most applicants to the Medical College will have completed four years of college, possession of an undergraduate degree is not a requirement of candidates for the degree of Doctor of Medicine from Cornell University. Applications will be seriously and carefully considered from students who have completed only three years of undergraduate work and whose personal, educational, and social maturation seem to warrant earlier admission to the study of medicine. Some of these applicants may be able to satisfy the requirements for a baccalaureate degree in their colleges by successfully completing the first year of medical school.

The basic premedical requirements that all students must fulfill in order to qualify for admission to the study of medicine in New York State are published in the Regulations of the Commissioner of Education. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester credit hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing an irreducible minimum

A sound preparation in biology, chemistry, and physics is essential for a student planning to study medicine, and course work in the behavioral sciences is becoming increasingly important. A student not majoring in one of the sciences should realize that a thorough basic training in the concepts and methods of science can only be acquired through rigorous laboratory experience. A science major, on the other hand, should not overlook the broad educational value of study in the humanities and social sciences. In planning premedical work, students are advised to elect subjects that will lay a broad foundation for medical study rather than to anticipate courses required in the medical curriculum.

### Selection

The Committee on Admissions of Cornell University Medical College each year selects a class of about

one hundred students from over 6.000 applicants. In doing so, the committee's goal is to accept the students they feel are best prepared to provide future leadership in the field of medicine. Each year the Medical College receives applications from many more candidates meeting the basic qualifications for the study of medicine than it can possibly accept. Thus, in addition to consideration of objective criteria, the evaluation of candidates also involves subjective judgments including an assessment of their motivation. maturity, stability, and other factors deemed by the faculty to be essential to the making of an effective and competent physician.

In order to be seriously considered for admission. candidates must demonstrate superior academic accomplishment at the undergraduate level, including completion of required course work. In addition, they must be of good moral character and possess the requisite sensory, cognitive, motor and organizational skills, including the ability to synthesize and apply knowledge, necessary to master the entire medical college curriculum. Cornell attempts to maintain a heterogeneous student body by selecting wellqualified students from diverse geographic, academic, and racial backgrounds. The number of students from any one college, region, race, or sex may thus vary from year to year. Well-motivated students from particularly adverse economic or social backgrounds who have had substandard educational opportunities are also admitted

It is the policy of Cornell University actively to support equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race. color, creed, religion, national or ethnic origin, sex, age, or handicap. The University is committed to the maintenance of affirmative action programs which will assure the continuation of such equality of opportunity.

All policies regarding admissions, employment, and educational programs and activities are established and administered in conformity with the Education Practices Act of New York as well as state and federal civil rights laws, specifically including Title IX of the Education Amendments Act of 1972, and regulations thereunder, prohibiting practices or policies in admissions, educational programs, or employment that are in any way discriminatory on the basis of sex.

# Application

Application to Cornell University Medical College can be made only through the American Medical College Application Service (AMCAS) application process: American Medical College Application Service, Suite 301, 1776 Massachusetts Avenue, N.W., Washington, D.C. 20036. AMCAS is the sole distributor of application forms and instructions. These are obtained by forwarding an application request card to AMCAS. Request cards are available from premedical advisers and from medical schools. Upon receipt of the AMCAS application by Cornell, additional information will be requested and instructions will be given about

submission of letters of evaluation. The evaluation of a premedical advisory committee is preferred. If this is not available, two letters of evaluation from members of the undergraduate science faculty of the applicant's college, well acquainted with the student, may be substituted. After receipt of the supplementary information, the letters of evaluation, and the \$35 application fee, the Committee on Admissions will review carefully the completed application and will select students for personal interviews. The fee can be waived for financial reasons for those applicants who are eligible for AMCAS fee waivers.

From among the large number of applicants, the committee selects for personal interviews those students under serious consideration. Only rarely are students accepted by the Medical College without a personal interview.

The Committee on Admissions does not require an applicant to take the Medical College Admission Test (MCAT) but will review the scores if the examination has been taken

The committee will notify applicants of its decisions after February 15. If the committee takes favorable action, a letter of acceptance is forwarded to the applicant who has two weeks to: (1) hold a place in the class in order to make a decision at a later date, but not later than March 10; or (2) accept a place in the class by sending a deposit of \$100. This deposit is deductible from the first tuition payment.

# **Advanced Standing**

When vacancies occur in the second- or third-year classes, students may be admitted with advanced standing. Only those students who have completed and passed examinations in their basic science course work as matriculated medical students in an accredited United States medical school are eligible for consideration for transfer to Cornell University Medical College. Additionally, a limited number of United States citizens studying medicine abroad may be admitted for the third year of study. Applications for a place in the second- or third-year class may be obtained from the Office of Admissions, 445 East Sixty-ninth Street, New York, New York 10021, in January of the year for which admission is sought.

Applicants who are accepted are required to make a deposit of \$100, which is deductible from the first tuition payment. Candidates seeking admission with advanced standing must furnish evidence of having completed satisfactorily, in an accredited medical school, all of the work required of students in the class they want to enter. Applicants must also have sent to us two letters of evaluation from their medical school faculty, as well as a certificate of good academic standing from the medical school, or schools, they attended. In addition, these candidates must have fulfilled the requirements for admission to the first-year class at Cornell University Medical College. They may be required to take examinations in any of the medical school courses taken in another school. Applicants for transfer into the third-year class must also pass all seven sections of the Part I examination of the National Board of Medical Examiners.

Additional information about the Medical College is contained in the booklet *Information for the Applicant—1980–81*, which may be obtained from the Office of Admissions.

# **Special Students**

Special students are those students who are permitted to take required courses at the Medical College or Graduate School of Medical Sciences, but who are not degree candidates in either school. Generally the courses taken at Cornell must be essential to their degree program, as certified by the institutions at which they are candidates. Enrollment as a special student is not intended as preparation for admission to degree programs at Cornell or elsewhere. Special students are accepted only with the approval of the head of the department in which they will study and must demonstrate special qualifications in terms of preparation and ability. They must register with the Office of Academic Programs, Room C-118, and pay all tuition and fees before being permitted to attend classes or laboratories. There is a registration fee of \$15. A tuition schedule for courses is available through the Office of Academic Programs. No more than two required courses of the medical curriculum may be taken in a given academic year.

# **Visiting Students**

Visiting students are candidates for the M.D. degree at other medical schools who have a need in their degree programs to take elective courses offered by Cornell University Medical College. Registration and attendance in any elective course is through application to the Office of Academic Programs with certification by the dean of the parent school where the student will be given credit for the course, and with the approval of the sponsor of the elective course. A visiting student may enroll in no more than ten weeks of elective courses during any academic year. Adequate malpractice insurance covering the student's activities while in attendance at Cornell University Medical College must be provided by the parent medical school. No tuition will be charged by Cornell University Medical College.

### **Auditing Students**

Auditing students are individuals who attend lecture courses at the discretion of, and with the permission of the department chairman. No courses offered by clinical departments may be audited. No records will be maintained and no credit will be given to students who audit courses. Auditing students will not be permitted to take final examinations. Conversion from the status of an auditing student to that of special or visiting student will not be permitted unless the request for conversion is made by the end of the second week of the course and the requirements of the requested status are met.

# **Exchange Students**

Exchange students are candidates for the M.D. degree at medical schools outside the United States that have

formal student exchange programs with Cornell University Medical College. Those students are selected by the faculty of their medical school to participate in the program and their credentials are submitted for approval to the Office of Academic Programs at Cornell. Exchange students must have completed their major clinical education before they seek further experience in clinical medicine, basic science, or clinical research at Cornell University Medical College. Students participate for a maximum of six months. Upon completion of this educational experience at Cornell, a faculty evaluation of the student's performance will be forwarded to the student's medical school. Matters such as malpractice and health insurance coverage, tuition, and housing are covered by special arrangements with the foreign medical school. Such agreements provide for similar educational opportunities for Cornell University Medical College students at the foreign medical school.

# Educational Policies and Plan of Instruction

The Medical College is divided into seventeen departments. Seven of the departments are concerned primarily with the sciences underlying clinical medicine; they are the Departments of Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology and Biophysics, and Public Health. Ten departments have as their major function the study, treatment and prevention of human diseases, and maternity care; they are the Departments of Anesthesiology, Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Otorhinolaryngology, Pediatrics, Psychiatry, Radiology, and Surgery.

Responsibility for the educational policies of the Medical College is shared by the Executive Faculty Council, consisting of the academic administrative officers and the chairpersons of those departments with major teaching commitments to medical students, and the General Faculty Council composed of elected faculty representatives from all departments of the Medical College. The Medical Student Executive Committee consists of elected representatives from each of the four classes of medical students and serves as a forum for student opinion and for communication between faculty and students.

Every department offers courses that must be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University. The courses are arranged in their sequence and duration to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine.

In order to fulfill its responsibility and desire to continue and further the high standards and excellence of the academic programs at Cornell, the faculty reserves the right to make changes in the curriculum

The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the

Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the Medical College curriculum. The time devoted by the prospective physician to preparation for the practice of medicine includes at least one year, and often many more years, of graduate medical education as intern or resident in a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the college to encourage the student to vary his or her course of study according to special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work, as time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote time to a single subject in which they have a special interest. The development of great technical proficiency in the various fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

### First-Year Curriculum

The first year of study is devoted to anatomy, biochemistry, physiology, neurosciences, psychiatry, and introductory medicine, including the basic elements of physical examination, interviewing techniques, and the sociological determinants of disease. Clinical conferences are presented in these courses to illustrate the application of the basic sciences to clinical medicine. A series of weekly interdisciplinary sessions explores a wide range of medical topics, again emphasizing the interrelationships of the basic sciences to each other and to clinical medicine.

### Second-Year Curriculum

In the second year, the basic sciences of microbiology, pharmacology, and pathology are completed and the full-time clinical curriculum is begun with physical diagnosis, neurology, psychiatry, and public health. Weekly clinical pathological conferences serve as a continuing point of integration of the basic and clinical sciences

#### Summers

In addition to scheduled time for electives during the first two years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work, if a student

### Third-Year Curriculum

Clerkships of four to twelve weeks' duration, in the forty-eight week (September through August) thirdyear curriculum, provide a sound basic introduction to all the major clinical fields. When students have completed this clinical core curriculum, they are sufficiently acquainted with the various clinical specialties to have identified their primary areas of interest, both in the clinical and basic science fields. Accordingly, they are prepared to plan an educational program for their final medical school year that is best suited to their interests and needs.

In the spring of the third year, each student chooses a senior faculty member as an adviser to help in planning the fourth-year program. Numerous elective opportunities available in the Cornell Medical Center are described in the Catalog of Electives. Other electives in the center or in other educational institutions may be arranged with the approval of the student's elective adviser.

### Fourth-Year Curriculum

The fourth year is a time when students can correlate the preceding experiences of medical school, begin to function effectively in the physician's role, and sharpen their clinical skills in preparation for residency training. Presently at Cornell, the fourth-year curriculum is largely elective and students have latitude in choosing their own programs. Under consideration is a curriculum that will provide for each student a "subinternship," substantial longitudinal experiences in the Outpatient Department and opportunities for basic research or clinical investigation in addition to a number of elective choices.

### Summer Fellowships

Sevel fellowships are available for selected students who wish to participate in investigative work during the summers following the first and second years.

### **One-Year Research Fellowships**

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of choice. Such research opportunities are available in all departments of the Medical College. A leave will be considered for investigative work in other institutions. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

### Coordinated M.D.-Ph.D. Programs

For students interested in teaching and research careers in the basic biomedical sciences or in clinical medicine, two combined M.D.-Ph.D. programs are offered at Cornell University Medical College. 1. One M.D.-Ph.D. program is coordinated between Cornell University Medical College and the Cornell University Graduate School of Medical Sciences, and is described in the Announcement of the Graduate School of Medical Sciences. Graduate programs are

offered in the fields of biochemistry, biological structure and cell biology, biology, biomathematics, biostatistics, biophysics, genetics, microbiology, neurobiology and behavior, pathology, pharmacology, and physiology. Students in this program work under the supervision of faculty members at the Medical College and the Sloan-Kettering Institute for Cancer Research. This intramural M.D.-Ph.D. program can be entered at any time by matriculated Cornell medical students or by resident physicians on the house staffs of hospitals affiliated with the Medical College.

2. The second M.D.-Ph.D. program is coordinated between Cornell University Medical College and the adjacent Rockefeller University and is described fully in a special announcement of this program. Students in this program pursue their medical education at Cornell and their graduate education in the many areas of study available at Rockefeller University, under the direction of the Rockefeller faculty. Students completing this program receive an M.D. degree from Cornell University and a Ph.D. degree from Rockefeller University. Applicants to this program must be accepted by the Cornell-Rockefeller Committee in the spring of the year of joint matriculation. In addition to the AMCAS application form, applicants to this program must also file a special application form that may be obtained by writing to: Rockefeller University, York Avenue and East Sixty-sixth Street, New York, New York 10021

In selecting between these two programs, an applicant should carefully survey the different areas of graduate study offered by the Cornell University Graduate School of Medical Sciences and Rockefeller University and then select the program most consistent with his or her research and career goals. Both coordinated programs are normally expected to require about six calendar years of study. Questions about these programs should be addressed to the Office of Admissions, Cornell University Medical College, 445 East Sixty-ninth Street, New York, New York 10021.

# Summer Fellowship Program for **Minority Students**

A summer fellowship program for minority-group premedical students has the specific aims of increasing the number of minority-group students in medical schools and of increasing their awareness of the great variety in medical career opportunities. Premedical students who have completed their junior year spend ten weeks as summer fellows at the Medical Center.

Fellows work three days a week at a variety of research activities with sponsors who are faculty members from different departments. The students in this program are often involved jointly with medical students who hold similar fellowships. Two mornings a week are devoted to a specially designed course in cardiovascular physiology. The afternoons of these days are used for a series of discussions about health problems of various communities, and visits to a neighborhood health center program.

Information regarding applications for fellowships and all other aspects of minority-group admissions can be obtained by writing to James L. Curtis, M.D., Associate Dean, Cornell University Medical College. Application

should be made early in the junior year, and not later than April 15.

# Advancement and Graduation

Qualifications for admission, advancement, and graduation. The evaluation of individuals for admission and advancement involves both objective criteria and subjective judgments. In order to be considered for admission, subsequent advancement, and graduation, individuals must have satisfactorily completed all required undergraduate and Medical College course work; must demonstrate motivation, maturity, stability. sound judgment, a sense of responsibility, and good moral character; must evidence cognitive, motor, and organizational skills; sensory perception, ability to synthesize and apply knowledge, and possess such other attributes as the faculty deems to be essential to the making of a safe and effective physician.

Dismissal. Students are subject to dismissal for the following reasons: (1) failure to pass required course work or to remedy failures as provided in the Guidelines for Promotion and Graduation; (2) violation of the Code of Professional Conduct; (3) a determination by the faculty, after an opportunity to be heard, of failure to meet the standards of fitness for medicine set forth above

Graduation. The award of the degree of Doctor of Medicine attests to the individual's successful completion of the curriculum and prima facie ability to practice the profession effectively and skillfully. The faculty does not believe that the degree can or should be awarded subject to any qualifications or to any modifications or restrictions whatsoever. The faculty reserves the right to withhold the granting of a degree to any person whose ability to practice medicine safely and effectively is impaired.

The curriculum of Cornell University Medical College is divided into four successive academic years, each year building on the subject material of preceding years. A student must successfully complete all of the course work of one academic year before being approved for promotion to the next year.

At the end of each academic term, a student's performance in all required and elective courses is evaluated and recorded. A student's final rating in a course is determined by the appropriate department after evaluation of the student's performance in all aspects of the course work, including the results of examinations

At the end of each academic year, a student's final rating is based on the results of evaluations in all of the courses in the curriculum of that year. These final ratings are reviewed by the Committee on Promotion and Graduation and are submitted to the Faculty Councils for final approval. Guidelines for the Committee on Promotion and Graduation have been established and are distributed to all entering students.

Candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character. They must have completed

successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. Every candidate for a degree must pay, or satisfactorily arrange to pay, all accounts due the University at least ten days before commencement.

Graduation from Cornell University Medical College fulfills one of the requirements necessary to apply for a license as a physician in the various states. Most of our graduates, however, take further training. Stipends for this postgraduate experience vary from place to place, but range from approximately \$10,000 to \$14,000 per year.

A transcript of the Medical College record of a student or graduate will be mailed at the student's request to accredited hospitals and to educational or other recognized institutions as credentials in support of his or her application for a position or promotion. All transcripts are marked "confidential" and carry the instruction that they are not to be turned over to the candidate. The purpose of this ruling is to avoid possible loss and fraudulent use of an official document of the Medical College.

# Examinations for Medical Licensure

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States. Certified students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners. whose certificate is recognized by a majority of the state and federal territory licensing agencies and by the respective authorities of England, Scotland and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal governmental agency. For information, write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

# Fees and Expenses

All fees for instruction and other charges are paid at the Accounting Office of the Medical College, Room D-07, 1300 York Avenue, New York, New York 10021. Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

Any individual who owes money to the University will not be allowed to register or reregister in the University, receive a transcript of his or her record, have his or her academic credits certified, be granted a leave of absence, or have a degree conferred.

Application fee. A nonrefundable charge of \$35 is made for reviewing each application.

Acceptance deposit. Each student admitted is given notice of acceptance and a limited time (usually two weeks) in which to decide if he or she will enroll in the entering class. The student's name is not placed on the class list until the \$100 acceptance deposit is paid. The deposit is credited toward the tuition charge and is refundable if the student withdraws prior to

## Tuition

Tuition for one academic year is \$7,500, starting July 1980. (The tuition may be revised during the academic year.) It is payable at the beginning of the academic year or in two equal parts, the first of which must be made within thirty days after classes begin, and the second in January 1981. The following are included in the tuition fee:

- 1. Matriculation fee.
- Student hospital insurance. Students are covered for hospital and major medical expenses through a college self-insured program. The plan may be expanded to spouses and families of married students at additional cost. Full information is available at registration.
- 3. Personnel health service.
- Graduation fee and rental fee for cap and gown for graduation exercises.

# **Refund Policy**

If a student terminates his or her medical college registration by official leave of absence or withdrawal, tuition will be charged for that trimester beginning with the first day of the trimester and extending to the effective date of the leave of absence or withdrawal as recorded in the Office of Student Affairs.

For each week or fraction of a week the charge will be: first week, 10 percent; second week, 20 percent; third week, 30 percent; fourth week, 40 percent; fifth week, 60 percent; sixth week, 80 percent; seventh week, 100 percent; except that no charge will be made if the effective date is within the first six days of the trimester.

# Books, Instruments, and Microscopes

The average cost of books and microscope rental is approximately \$600 a year. Binocular microscopes are available for rental. Information will be furnished each entering student before registration.

# Financial Aid

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

# Scholarships

Scholarship income is derived from the several endowed and invested funds and other resources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance. Financial need is not a factor in the selection of students at Cornell University Medical College.

Awards to entering students are made on the same basis as to students already enrolled. An applicant who has been accepted for admission and has indicated the intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Financial Aid. All scholarships listed are awarded to students eligible for financial aid, through the Financial Aid Committee.

Vivian B. Allen Scholarship Endowment. Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to provide income to aid needy students of good scholastic standing who otherwise would not be able to complete their medical education.

**Becker Family Scholarship Fund.** The income from this endowed fund, established by a generous gift from the estate of Louis Becker, is to be used to provide scholarships for deserving students.

The Lois and Max Beren Foundation may award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the college and the foundation. The student shall be selected by the college, subject to the approval of the foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the foundation to assist a student who possesses great eagerness to pursue studies but who would find it impossible or impractical to do so without the financial support of the foundation.

H. Meredith Berry Scholarship Fund. The income from this endowment fund, established by gifts from Dr. Meredith Berry '41, is used to help a needy and deserving student.

Slegfried and Josephine Bieber Scholarship Endowment. The income from the endowment, given by the late Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

The John V. Bohrer Scholarship Fund was endowed by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from the income are awarded to students "who shall express a willingness and intention to restore to the

trust fund the amounts received by them, as and when their circumstances permit."

Lucien and Ethel Brownstone Merit Medical Scholarship. Generous gifts to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment established by the gift is to be awarded as a four-year scholarship to one or two students. The donors hope to encourage the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine. The first award was made in

Mary E. C. Cantle Scholarship Fund. The income from this invested fund, which was established by a beguest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

Frances N. and John A. Cashman Scholarship Fund. This endowed fund was established by a generous gift from the Trust of Frances Nevins Cashman. The income from this fund shall provide a scholarship to a woman student who, in the opinion of the faculty, is deserving of such assistance.

Lillian M. Charles Scholarship Endowment. The income from this fund, which was established by a generous gift from the late Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

Citibank Medical Scholarship. This scholarship was established by Citibank to be awarded for four vears to a resident of New York State who has demonstrated financial need.

Coppermines Foundation Scholarship Endowment. Endowed by a generous gift from the Coppermines Foundation, Inc., the income provides financial assistance for needy and worthy students.

Jean Davidoff and Elizabeth Cohen Scholarship Fund. This endowment was established through a gift by Dr. Harry S. Berkoff '23 in memory of his sisters. The income is available annually to a student, or students, in the third- and fourth-year classes who are in need of financial aid and who, by their scholarship and conduct, have proved worthy of this. Such students should express their willingness and intention to return to the fund the amounts received by them as and when their circumstances permit.

Dean's Special Scholarship Fund. This invested fund was established through the generosity of many contributors. The income is used to provide scholarships for worthy students who are especially in need of financial assistance.

Kate and Henry Eichel Scholarship Fund. This gift from the estate of Kate Eichel is an invested fund. It has been given in memory of Kate Eichel and her brother, Dr. Henry Eichel '07. The investment income will be used for scholarships for students in need of financial assistance.

Dr. Harry Eno Scholarship Endowment. Established in 1955 by the gift of the late Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

The Jeremiah S. Ferguson Scholarship Fund was established by the Board of Trustees of Cornell University in memory of Jeremiah S. Ferguson who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The investment income is awarded annually by the Committee on Financial Aid to a student or students in the thirdand fourth-year classes in the Medical College who are in need of financial aid.

Anthony Ferrara Memorial Scholarship Fund. The mother of Anthony Ferrara and his fellow students and friends established this fund. The investment income provides scholarship assistance to deserving

Joseph P. Ferrigan Endowment. The income from this endowed fund, established by an anonymous gift, is to be used to benefit a worthy and meritorious student in need of financial assistance.

The Wallace D. Garrabrandt Scholarship Endowment was established by the late Mabel G. Gormley, and the income is to be awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

The Judge and Mrs. Samuel Jordon Graham Memorial Scholarship Endowment was established by a bequest from the estate of E. Norman P. Graham. The income provides scholarship assistance for deserving students of the Medical College.

Connie Guion Scholarship. Providing an annual scholarship to be used toward tuition for a student of the Medical College, this scholarship was established by Ambassador and Mrs. Vincent de Roulet to express their gratitude to the late Dr. Connie Guion '17.

The Haddad Foundation Scholarship. The R. G. Haddad Foundation has made available grants to medical students who are United States citizens of Syrian or Lebanese descent and who are in need of financial assistance. The grant is for one year and may be renewed upon application.

Mary F. Hall Scholarship Endowment. The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in the Medical College who needs its aid, who is a bona fide resident of the State of New York, and was such prior to admission to the college.

Lawrence W. Hanlon Scholarship Fund. This fund was established in memory of Dr. Lawrence W. Hanlon, who had given twenty-five years to the service of the Medical College. In the last fifteen of those years, he was associate dean and, in that role, did as much as any one person ever has to shape the lives and

careers of the students. Contributions from his associates and friends make this fund possible.

Dr. John A. Heim Scholarship Endowment. The income from this fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible.

Irma T. Hirschi Scholarship. This fund, supported by a trust under will of Irma T. Hirschl, grants annual scholarships to students. The will makes the following statement of the donor's wishes: "All payments to medical schools selected by my individual trustees.....shall be applied by such schools as student financial aid for medical education of deserving students who may be deemed worthy of such aid by the scholarship committee (or its equivalent) of each such school.

"All payments herein shall be designated as The Irma T. Hirschl Scholarship. I direct that the scholarship committee (or its equivalent), in designating the recipients of such financial aid, be guided by the following criteria: financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life. No discrimination shall be made against applicants for financial aid on the ground of sex, race, religion, or national origin. It is my desire, but I do not require, that a student, once selected for financial aid on the basis of the criteria set forth above, shall continue to receive financial aid throughout the years of such student's dedicated and successful study, provided the student continues, in the judgment of such scholarship committee (or its equivalent), to meet the criteria set forth above."

Several other medical schools in the city are also beneficiaries under the trust.

Maler and Shantsya Hitzig Scholarship. Through a generous gift, Dr. William M. Hitzig '29 established this endowed scholarship in memory of his father and mother. The income is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

The Dr. Edward Hoenig Scholarship Fund was endowed by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance to needy but worthy students.

Samuel Hollander Prize Endowment. The income from an endowed fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy student as a prize for scholarship by the Committee on Financial Aid.

The Ruth Hollohan Scholarship Fund was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The investment income is used for scholarships in the Medical College with

first consideration given to entering students of high academic achievement who are in need of financial assistance

Elizabeth and Neill Houston Scholarship Endowment. The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston, A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

Charles Evans Hughes Memorial Foundation Scholarship Fund. The foundation was established by Mr. Chauncey L. Waddell on the death of his wife. Catherine Hughes Waddell, in memory of her father, Chief Justice Hughes. This generous gift was made to the Medical College to support the effort to meet the financial aid requirements of enrolled minority students.

Professor Andrew Hunter Scholarship. This fund was established by the Maurice H. Givens Trust in honor of the late Professor Andrew Hunter, who was professor of biochemistry at the Ithaca Division of Cornell Medical School, where Mr. Givens served as Professor Hunter's assistant from 1909 to 1914. The income from this endowment provides scholarships to needy and worthy students in the Medical College.

Dr. Charles I. Hyde '10 and Eva Hyde Scholarship Endowment. Established by the late Dr. Charles I Hyde and Mrs. Eva Hyde in memory of their daughter. Anita Shirley Hyde, this endowment provides that income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

Henry J. Kaiser Family Foundation. This two-year grant from the Kaiser Foundation for scholarships will provide grants for students qualifying for financial aid.

The Dick Katzin M.D. Scholarship Fund was established in 1966 by Dick Katzin '65. The annual gift will be used to give financial aid to needy students.

Samuel Farrar Kelley M.D. Scholarship Fund. Contributions for this invested fund are being given by Mrs. Lillian E. Kelley in memory of her husband. Support from the income from this fund is available to students in good standing who need financial assistance.

The Elise Strang L'Esperance Scholarship Endowment, established by a bequest from Dr. L'Esperance, provides income for financial assistance for woman students at the Medical College.

The Elizabeth C. Lowry Scholarship Fund was endowed by Dr. Lowry, a member of the class of 1935, in memory of her late husband, Dr. Thomas Lowry, who was also a member of that class. The income is to be used to provide financial assistance to woman students in the Medical College. If, in any year, there is no woman student in need of such assistance, the income available may be awarded to a woman candidate for a Ph.D. in the Graduate School of Medical Sciences.

The 1936 John and Katherine Mayer Scholarship Fund. The investment income is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but may be awarded for a second or third year provided the qualifications of the candidate merit it.

The 1939 John and Katherine Mayer Scholarship Endowment. The income is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but may be awarded for a second or third year provided the qualifications of the candidate merit it.

Charles M. McLane Memorial Scholarship. This generous gift was established by the Merlin Foundation. The investment income is to be used to provide a scholarship for a needy student from the third- or fourth-year class whose record reflects dedication and personal achievement of a high order.

Medical College Dormitory Fund No. 2. This invested fund, established by gifts made in the Greater Cornell Campaign, provides income for rental scholarships to be awarded to students residing in the Medical College dormitory.

Medical College Memorial Scholarship Consolidated. This endowment fund is supported by various gifts in memory of individuals for scholarship purposes. The income is used for scholarships to worthy students who are in need of financial assistance.

Charles E. Merrill Trust. This grant from the Charles E. Merrill Trust will provide scholarships for students with financial need whose career interests are in research and academic medicine.

Margaret, Henry, Rosalie, and Henry E. B. Mever Educational Fund. The income from this very generous trust fund is to be used to pay a portion of the cost of tuition of one or more students, selected each year from the entering class. This trust fund was established by a gift from the estate of Henry E. B. Meyer '07, in memory of his parents, his wife, his sisters, and himself.

Li Ming Scholarship Fund. The income from this endowment fund, established by a bequest from the estate of Li Ming, is used for scholarship purposes and, in accordance with the donor's stipulation, preference is given to students of Chinese birth or descent or nationality or, if there are no such qualified applicants, then to other qualified students.

Dr. George A. and Nora W. Newton Scholarship Endowment. The income from this fund, which was established by a bequest from the estate of Nora W. Newton, provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Committee on Financial Aid on the basis of high scholarship and character.

New York Community Trust Scholarship. These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

Gustave J. Noback Memorial Fund for Advanced Study and Teaching in the Field of Anatomy. In 1963 a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the professor in charge.

The Maurice and Cecelia Nordlicht Scholarship Fund. Established by Dr. Stephen Nordlicht, the income is available annually as a scholarship, with preference given to students who have done meritorious work in psychiatry. If, in any year, there is no student in need of such assistance, the income may be utilized for research in the Department of Psychiatry.

Evelyn Buckalew Ochester and Charles W. Ochester Memorial Scholarship Fund. This endowment fund was created by Alfred J. and LeMoine R. Buckalew in memory of their sister. Evelyn Buckalew Ochester, and her husband. Charles W. Ochester. Income from the fund is used to provide financial assistance or incentive recognition awards to worthy students who are in need.

Dr. E. Cooper Person Memorial Scholarship Fund. Friends of the late Dr. Person established this invested scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

John Metcalf Polk Scholarship Endowment. A gift under the will of William Mecklenburg Polk, the first dean of the Medical College, established an endowed fund. The income is to be used to provide scholarships for students of the Medical College.

Thomas C. Rennie Scholarship Fund. Friends of the late Dr. Rennie, professor of social psychiatry, have set up an endowed fund; a portion of the income is available to students interested in carrying out research work in social psychiatry.

Jessie Ridley Scholarship Fund. This fund was established by the Jessie Ridley Foundation, Inc., and will provide scholarships for deserving young men and women to assist them in attending institutions in this country. Financial need and physical handicaps of the individual shall be considered in awarding these scholarships.

Anna E. Ray Robinson Education Fund. The income from this endowed fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for students. A preference is to be given to descendants of Anna E. Ray Robinson and of her husband's brothers and sisters.

Edgar J. Rosenberg Medical Scholarship Fund. The income from this fund, which was established by a beguest to The Society of The New York Hospital, is available to assist a needy and worthy student.

Mary Putnam Jacobi-Anna Forrest Rowe Scholarship. A bequest from William Vincent Rowe endowed this fund. The income provides financial assistance for woman students.

The Louis and Rachel Rudin Scholarship Fund. This annual gift from the Louis and Rachel Rudin Foundation, Inc., shall be used for a scholarship in recognition of Dr. Lawrence Sonkin and shall be available to students without regard to age, sex, creed, or race, who demonstrate financial need, who show merit and great promise as students, and who are citizens of the United States. The scholarship shall be for the payment of tuition and support of students who otherwise would not be able to pursue careers as physicians.

The Dr. Jacques Saphier Scholarship Endowment was established by Dr. Saphier's father, the late Conrad J. Saphier, in memory of Dr. Jacques Conrad Saphier (lieutenant, j.g., U.S.N.R.), class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The endowment income is awarded annually to a meritorious student of the Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

Anne and David C. Schilling Scholarship Fund. The income from this endowment fund, established by a bequest from the estate of David C. Schilling, is used to provide first-year scholarships for needy students of high scholarship and character in the Medical College.

The Carl J. Schmidlapp Memorial Scholarship Fund was endowed by Dr. Jean Schmidlapp Humes '49 in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded annually to a deserving student in any class of the Medical College, selected on the basis of need and ability.

Joseph M. Selder Scholarship Fund. This fund, financed by an annual gift from Mr. Seider, provides scholarships for worthy students who are in need of financial assistance.

The Thorne Shaw Endowment Scholarship Fund provides the income to support three scholarships. A gift from the estate of Julia Shaw established the endowment. One scholarship is available to students after at least two years of study in the Medical College and two scholarships are available to students after at least one year of study in the Medical College.

The Robert E. Speno Endowment Scholarship Fund was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a roomrent scholarship.

Charles Rupert Stockard Scholarship. An invested fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-39. The income from this fund is to be awarded to either one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that department. The scholarships are to be awarded by the Executive Faculty Council upon nomination by the head of the Department of Anatomy.

Nancy G. Stone Memorial Scholarship Fund. This endowed fund was established by a bequest from the estate of Nancy G. Stone, widow of Dr. Neil C. Stone '25. The income from this fund will be used to provide scholarships to worthy students in need of financial assistance.

The Walter C. Teagle Scholarship Fund, an endowment fund established in 1963 by a very generous gift from the Teagle Foundation, Inc., is a permanent memorial in honor of Mr. Teagle, with the recipients of the income from the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is further the desire of the Directors of the Foundation that each student given an award be urged-but in no way required in any legal way-to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of students may have available further funds to help defray the rising costs of medical education.

Dr. Leona E. Todd Scholarship Endowment. A gift from the estate of Alzina T. Elliott established this endowment fund, the income to be used for scholarships for woman students in the Medical College.

Training in Psychiatry Fund. A grateful patient. recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

Dr. Samuel M. Weinreb Medical Scholarship Fund. This endowed fund was established by the family, friends, and former patients of Dr. Samuel M. Weinreb '23 in his memory. The income from this fund is available to a needy fourth-year student who intends to practice in a medically underserved area.

Weld Fund Scholarship. Established by David and Mary Blake Weld, the income from this endowment fund provides scholarship assistance for needy students who are in good academic standing.

Phillip G. Woodward Scholarship Fund. The income from this fund, which was established by a bequest to The Society of The New York Hospital from Phillip G. Woodward, is available to be used for Phillip G. Woodward Scholarships, to be awarded to third-or fourth-year students of the Medical College who have demonstrated interest, initiative, and ability in the fields of psychiatry, neurology, behavioral biology.

Mary Louise Wuester Scholarship Endowment.

The income from this endowment fund, which was established in memory of his mother by Dr. William O. Wuester '33, is awarded annually to a regularly matriculated student of good scholarship who is in need of financial aid.

Marie and John Zimmermann Fund. The income from this endowed fund, established by a gift from the late Marie Zimmermann and the Marie and John Zimmermann Fund, Inc., is used to aid needy and worthy woman students. In addition to the endowment income, a generous annual gift is being given by the Zimmermann Fund, Inc., for supplemental scholarships to be made to a few needy and worthy woman students.

**New York State Regents Scholarships.** Applications should be made in the fall of the last year of preprofessional study.

Regents Physician Shortage Scholarships applications are due in May. Scholarship recipients must serve in shortage areas of the state. For applications and information write to the University of the State of New York, State Education Department, Bureau of Higher and Professional Educational Testing, Albany, New York 12234.

**Tuition Assistance Program (TAP)** is available to New York State residents, depending on family income. Applications are available from the Higher Education Services Corporation, Tower Building, Empire State Plaza. Albany. New York 12255.

### Loan Funds

**The 1923 Loan Endowment.** The income from this endowment fund is available as a loan to a student needing financial assistance.

**Alumni Association Loan Fund.** The Medical College makes loans available to students from a portion of the income from an endowment fund that is provided through the Alumni Association. Students in the upper classes will be given preference.

Student Loan Funds. Revolving funds contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, the Student Bookstore, and the Bristol-Myers Fund, are available to students in all classes who are in need of assistance. Every effort is made, within the limitations of the financial structure of the institution, to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits.

**Lawrence W. Hanlon Student Loan Fund.** This fund was established by the Medical College in

memory of Dr. Lawrence W. Hanlon, associate dean of students, who died in 1970. Dr. Hanlon devoted his life to the welfare of the students at the Medical College, and this fund is designed to help continue his good work

Joseph C. Hinsey Loan Fund. Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

**B. H. Homan Jr. Revolving Loan Fund.** This fund was established by a bequest from Benjamin H. Homan, Jr., and provides low-interest loans to worthy students with financial need.

**Federal Ioan programs.** The Medical College participates in the Federal Health Professions and National Direct Student Loan Programs. These loans, based on financial need, are administered through the college and are available only to students eligible for financial aid.

State guaranteed loans. Students may apply for federally guaranteed student loans from their banks in any state. Students seeking New York State guaranteed loans should apply to the New York Higher Education Services Corporation, Student Financial Aid Section, Tower Building, Empire State Plaza, Albany, New York 12255.

There are other student loans available from organizations with which Cornell University has a working agreement. For further details, please inquire in the Office of Student Affairs, Room C-118.

## **Prizes**

Mary Aldrich Fund. In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Medical College. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented, in writing, of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are to be submitted in duplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Office of Student Affairs, Room C-118, not later than the first Monday in April. In 1980 the prize was awarded to John Joseph Deri.

The American Medical Women's Association Scholarship Citation is awarded each year to women who graduate in the top 10 percent of the class. In 1980 this citation went to Bette DeMartini and Shonni J. Silverberg.

Beekman Downtown Hospital Emergency Medicine Award has been made possible by a gift from Beekman Downtown Hospital. The prize consists of a cash award and an appropriately inscribed scroll. It will be presented to the fourth-year medical student who has completed his or her rotation through the Emergency Department of Beekman Downtown Hospital, and who has demonstrated outstanding character, compassionate concern for the welfare of the patient, academic excellence, and clinical proficiency during the Emergency Medicine elective at Beekman Downtown Hospital. For 1980 this award was given to Kathy Anne Smachlo.

CIBA Award for Outstanding Community Service. This award, a complete set of the Netter Atlas Volumes, is offered each year by the CIBA Pharmaceutical Company to a student in the sophomore class who has performed some laudable extracurricular activity within the community. In 1980 this prize was awarded to Douglas Kent Diehl.

The Clarence C. Coryell Prize in Medicine was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize, financed by the income, is to be awarded annually to the student having the highest average in medicine up to the end of the junior year. In 1980 this prize was awarded to Laurie Ann Gordon and Spencer H. Kubo.

The Clarence C. Coryell Prize in Surgery was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize, financed by the income, is to be awarded annually to the student who attains the highest marks in surgery during the fourth year. In 1980 this prize was awarded to Martin E. Kessler.

**Dean's Research Prize.** Cash awards are offered to matriculated students of any class for excellence in research. For 1980 prizes were awarded to Caren Jahre and Stuart J. Khnechtle.

The Oskar Diethelm Prize for Excellence in Psychiatry was established in honor of Oskar Diethelm, who was chairman of the Department of Psychiatry of Cornell University Medical College from 1936 to 1962. It is awarded annually to the medical student who has demonstrated exceptional interest and ability in psychiatry through research, clinical activities, or scholarly work. In 1980 this prize was awarded to Kevin Vincent Kelly.

The David Drusin Memorial Prize was established by his family and friends to recognize both scholastic achievement in medicine and those intangible human qualities associated with a good physician. The prize is awarded to a student who has completed the third clinical year. Candidates for this prize are to be recommended by the Chairman of the Department of Medicine to the Dean of the Medical College at the conclusion of the third year. For 1980 this prize was awarded to Marc Rubin.

The Franklyn Ellenbogen Prize in Hematology-Oncology was established by a gift from the Franklyn Ellenbogen, Jr., Memorial Foundation in honor of Ralph L. Nachman, M.D., Professor of Medicine and Chief of the Division of Hematology-Oncology. The income from this endowed fund will be used to finance an annual Hematology-Oncology Prize, to be given to a fourth-year graduating student who has demonstrated significant evidence of achievement in this area. For 1980 the prize was awarded to Peter Michael Okin.

Sarah O'Laughlin Foley Prize in Clinical Medicine.
Dr. William T. Foley, Clinical Associate Professor of
Medicine Emeritus and a member of the class of 1937,
established this annual prize in memory of his mother.
The recipient, a member of the graduating class, is
selected for excellence in clinical medicine by the
chairperson of the Department of Medicine. For 1980
the prize was awarded to Alice Bendix Gottlieb.

Louis Gibofsky Memorial Prize. This prize is a cash award offered to the medical student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is in memory of Louis Gibofsky. In 1980 this prize was awarded to Charles Kingsbury Stone.

The Janet M. Glasgow Award for Outstanding Achievement is presented each year by the American Medical Women's Association to woman medical students graduating as top scholars in their class to focus attention on the accomplishments of women in medicine. In 1980 this award was given to Laurie Ann Gordon, for standing first in the class at graduation.

The Herman Goldman Emergency Medicine Award has been sponsored by the Beekman Downtown Hospital and the Herman Goldman Foundation. It consists of a cash gift and an appropriately inscribed scroll. It will be presented to the fourth-year medical student who has completed his or her rotation through the Herman Goldman Emergency Department of Beekman Downtown Hospital and who has demonstrated academic excellence, clinical proficiency, outstanding character, and compassionate concern for the welfare of the patient.

**Good Physician Award.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "the good physician." For 1980 the award was presented to Charles Nelson Cornell.

Charles L. Horn Prize Fund. The income from this fund will be awarded each year to a member of the graduating class who has demonstrated outstanding qualities of leadership and service to the medical community. For 1980 the prize was awarded to James Colegrove Blankenship.

The Herman L. Jacobius Prize Endowment in Pathology was established in 1945 by a gift from Dr. Lawrence Jacobius and his friends in memory of his son, Dr. Herman L. Jacobius '39, who was killed in action in the Netherlands on September 28, 1944. The income is available annually to the student of the third- or fourth-year class who, in the opinion of the

Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction, the award will be withheld. In 1980 the prize was awarded to Spencer H. Kubo.

The George Ladas Prize for Efficiency in Gynecology was established by Dr. George Ladas, a graduate of the Medical College in 1927, in memory of his mother. The prize is to be awarded to the medical student who has demonstrated the greatest proficiency in gynecology. In 1980 the prize was awarded to Laurie Ann Gordon.

The Dr. Harold Lamport Blomedical Research Prize. A cash award is offered to the medical student who submits the best thesis reporting original biomedical research while a candidate solely for an M.D. degree. The award includes a framed certificate and is in memory of Dr. Harold Lamport, Distinguished Service Professor of Physiology and Biophysics at Mount Sinai School of Medicine. In 1980 this prize was awarded to Jonathan C. Javitt.

The George S. Melster Prize In Pediatrics has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The prize consists of income derived annually from an invested fund contributed by members of his family, his close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics. In 1980 this prize was awarded to Lambros George Geotes.

Alfred Moritz Michaelis Prize Endowment for Efficiency in General Medicine. The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from the Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at the Medical College. In 1980 this prize was awarded to Marc Rubin.

Gustave J. Noback Memorial Fund In Anatomy. Established in 1972 by Miss Berthe Manent, a graduate of The New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback will be remembered for his great kindness and generosity to all his students, and also for his work in research, and sculpture. The income from this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This prize was not awarded in 1980.

Arthur Palmer Prizes for Efficiency in Otorhinolaryngology. These prizes are made available from the income of the Arthur Palmer Fund, which was provided by the members of the Division of Otorhinolaryngology in honor of Dr. Palmer. The prizes are

given to the students in the graduating class who have the best records in this capacity. For 1980 this prize was awarded to David Keith Emmel.

The Robert F. Pitts Prize has been established by a generous gift of the late Robert F. Pitts, former chairman of the Department of Physiology at Cornell University Medical College and past president of the American Physiological Society. Two prizes, a \$2,500 first prize and a \$1,500 second prize, are offered for research conducted by medical students in the Department of Physiology at Cornell University Medical College. The selection shall be made on the basis of manuscripts submitted to an Awards Committee. This committee consists of the chairpersons of the Departments of Physiology at Harvard Medical School and Yale University School of Medicine, the dean and the chairperson of the Committee of Research Prizes at Cornell University Medical College. The chairperson of the Department of Physiology at Cornell shall act as the chairperson of this committee. If the papers submitted are not considered worthy of special commendation the prizes will be withheld.

# John Metcalf Polk Prizes for General Efficiency.

These prizes, financed by the income from an endowed fund, are given in commemoration of John Metcalf Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years of work. Only those students who have taken the full course of study at the Medical College are eligible. In 1980 these prizes were awarded to Laurie Ann Gordon, Martin E. Kessler and Marc Rubin.

Gustav Seeligmann Prizes Endowment for Efficiency in Obstetrics. Two prizes, financed by the income from an endowment established by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics. In 1980 these prizes were awarded to Bette May DeMartini and David Wayne Dodson-Yarnell.

Sondra Lee Shaw Memorial Fund. The income from an endowment fund established by Mrs. Joan S. Friedman in memory of her sister, Sondra Lee Shaw, supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the student who has produced an outstanding research paper in the field of neurology, pharmacology related to the nervous system, or behavioral science. The prize wimer is chosen by the Committee on Prizes in Research. The prize was awarded in 1980 to Iris Ann Granek.

#### Mitchell Spivak Memorial Prize in Pediatrics.

Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak '64. The prize, financed by the endowment income, is awarded annually to the member of the graduating class who has made the best record in pediatrics. In 1980 this prize was awarded to Janet M. Werkmeister.

T. Campbell Thompson Prizes for Excellence in Orthopedic Surgery. A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery established this endowed fund. The income is to be awarded yearly to members of the graduating class who have demonstrated the greatest proficiency in orthopedic surgery. These awards are to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery. In 1980 these prizes were awarded to Ethan Dmitrovsky and Steven Allen Fiamengo.

The William C. Thro Memorial Prize Endowment was established in memory of William C. Thro '01, whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject at his alma mater continuously from 1910 to 1938. The income from the endowed prize is awarded to the student who attains the best record in the pathophysiology course. The candidate for the prize is recommended by the professor of pathophysiology. This prize was awarded in 1980 to Mark A.

Upjohn Achievement Award. This annual award to a member of the graduating class is given in recognition of outstanding achievement in a basic science. Consisting of a cash award and a plaque, the award is supported by the Upjohn Company. In 1980 the prize was awarded to Mark Gudesblatt.

### Weiss Prize for Excellence in Clinical Medicine.

The prize was established by Mr. and Mrs. Roger Weiss in 1979 as an expression of the high esteem in which they hold their physician, Dr. Harvey Klein. The cash award and a framed certificate is offered to a member of the graduating class who, in the opinion of a committee chaired by Dr. Klein and consisting of the chairman of the Department of Medicine, the chief resident in medicine and the assistant chief residents in medicine, best exemplifies the qualities necessary for the attainment of outstanding bedside clinical competence in the field of internal medicine. The prize was awarded to Spencer H. Kubo in 1980.

The Anthony Seth Werner, M.D., Memorial Prize was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The prize is awarded annually to a member of the graduating class for excellence in the study of infectious diseases. In 1980 this prize was not awarded.

The Harold G. Wolff Research Prize is presented in memory of the late, famed chief of neurology at The New York Hospital-Cornell Medical Center. The prize consists of a cash award and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. In 1980 this prize was not awarded.

# Named Professorships

The following are the named professorships at Cornell University Medical College.

The Winifred Masterson Burke Professorship in Rehabilitative Medicine was established in 1971 with a gift from the Winifred Masterson Burke Relief Foundation. The first and present occupant of the chair is Dr. Fletcher H. McDowell.

The Winifred Masterson Burke Professorship of Neurology was established in 1978. The first and present occupant of the chair is Dr. John P. Blass.

The James J. Colt Professorship of Urology in Surgery was established in 1970 through a gift from the James J. Colt Foundation. The present occupant of this chair is Dr. E. Darracott Vaughan, who is surgeon-in-charge of the James Buchanan Brody Urological Foundation at The New York Hospital.

The Livingston Farrand Professorship of Public Health and Preventive Medicine, established in 1944 upon receipt of a gift from the Milbank Memorial Fund and the Rockefeller Foundation Fund, is named for Livingston Farrand, who was the president of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The first occupant of the chair was Dr. Walsh McDermott. The current occupant is Dr. George G. Reader, Chairman of the Department of Public Health.

The Given Foundation Professorship of Obstetrics and Gynecology was established in 1963 with funds from Irene Heinz Given and the John LaPorte Given Foundation. The foundation's gift was designed to provide endowed support for the chairman of the Department of Obstetrics and Gynecology. The present occupant of the chair is Dr. William J. Ledger.

The Stanton Griffis Distinguished Medical Professorship was established by the Board of Trustees of Cornell University in honor of the late Mr. Griffis, Cornell University '10. Mr. Griffis was a distinguished member of the Board of Trustees for twenty-one years, a trustee emeritus for twenty-four years, and a presidential councillor for eight years. The first Stanton Griffis Distinguished Medical Professor is Dr. Alexander G. Bearn, former Chairman of the Department of

The Roland Harriman Professorship of Cardiovascular Medicine was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first occupant of the chair was Dr. Thomas Killip III, formerly head of the Division of Cardiology in the Department of Medicine.

The Barklie McKee Henry Professorship of Psychiatry, established in 1968, honors the memory of the late Mr. Henry, who was president of The Society of The New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry into the

eminent treatment, research, and teaching unit it is today. Dr. William T. Lhamon, who was chairman of the department and Professor of Psychiatry since his appointment at Cornell in 1962, was the first occupant of the chair. The present occupant of the chair is Dr. Robert Michels, Chairman of the Department of Psychiatry.

The Joseph C. Hinsey Professorship of Anatomy, established in 1966, upon receipt of a gift from Nicholas Noves, is the only professorship named for a living member of the faculty. A former dean of Cornell University Medical College, Dr. Hinsey was director of the center until his retirement in 1966. He is an emeritus professor in the Department of Anatomy of the Medical College. The first and present occupant of this chair is Dr. Roy C. Swan, a 1947 graduate of the Medical College, formerly chairman of the department and Professor of Anatomy since 1959.

The Johnson & Johnson Distinguished Professorship in Surgery was established in 1972 through a grant from the Johnson & Johnson Associated Industries Fund. The present occupant of the chair is Dr. P. W. Curreri.

The Hilda Altschul Master Professorship was established in 1971 in memory of the late Mrs. Master, who was the wife of Dr. Arthur M. Master '21, Endowment of the chair is made possible by gifts from Dr. Master; Mr. Arthur M. Master, Jr.; Mrs. Herbert H. Lehman, sister of Mrs. Master; and the Overbrook Foundation. whose president is Mr. Frank Altschul, Mrs. Master's brother. The present occupant is Dr. John H. Laragh.

The John Milton McLean Professorship of Ophthalmology was established in 1972 in memory of the late Dr. McLean who headed the Department of Ophthalmology for twenty-seven years. A graduate of the Medical College in 1934, his reputation as an eve surgeon, investigator, and teacher was worldwide. The memorial was initiated by Dr. McLean's former residents, the "eye alumni," whose inspiration and generosity brought together his former patients, associates, and friends, and their combined gifts endowed the chair. The present occupant of the chair is Dr. D. Jackson Coleman, chairman of the Department of Ophthalmology.

The Stavros S. Niarchos Professorship in Pediatric Cardlology was established in 1979 by a gift from Mr. Stavros S. Niarchos. The present occupant is Dr. Mary Allen Engle.

The Revion Pharmaceutical Professorship of Pharmacology and Toxicology was established in 1979 by a gift from Revlon, Inc. The present occupant is Dr. Walter F. Riker, Jr.

The Israel Rogosin Professorship of Blochemistry was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. Dr. Vincent du Vigneaud, who received the Nobel Prize in chemistry in 1955, was Cornell's first Israel Rogosin Professor. The chair has been held since Dr. du Vigneaud's

retirement in 1967 by Dr. Alton Meister, current chairman of the Department of Biochemistry, whose research centers on the chemistry and intermediary metabolism of amino acids.

The Sterling Drug Visiting Professorships were established in 1979 by a gift from the Sterling Drug Company in honor of Dr. Walter F. Riker, Jr., Chairman of the Department of Pharmacology. The professorships are designed to promote interchange of knowledge in the field of pharmacology. Each visiting professor will spend about a week at the college, delivering a major lecture and participating in seminars.

The Lewis Atterbury Stimson Professorship of Surgery was established in 1935 by an anonymous gift presented to the Medical College in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. The first occupant of this chair was Dr. Frank Glenn. The present occupant of this chair is Dr. G. Thomas Shires, Chairman of the Department of Surgery.

The William D. Stubenbord Visiting Professorships were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder. Sr., and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31, for them and members of their families." The departments of the college will, in rotation, be host to visiting scholars. Each visiting professor will reside at the college for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

The Anne Parrish Titzell Professorship in Neurology was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum, current Chairman of the Department of Neurology.

The Maxwell M. Upson Professorship of Physiology and Biophysics, established in 1970, honors the memory of Mr. Upson who had been a member of the Cornell University Board of Trustees for thirty-five years. The first occupant of this chair was the late Dr. Robert F. Pitts, who was Chairman of the Department of Physiology and Biophysics from 1950 through 1972. The current occupant of the chair is Dr. Erich E. Windhager, who is the Chairman of the Department of Physiology and Biophysics.

The Harold and Percy Urls Professorship in Reproductive Biology was established in 1976 with an endowment from the Uris Brothers Foundation. The first occupant of this chair is Dr. Fritz Fuchs.

The Harold and Percy Uris Professorship of Pediatric Endocrinology and Metabolism was established with a grant from the Uris Brothers Foundation. The first occupant of this chair is Dr. Maria I. New, who is the head of the Division of Pediatric Endocrinology

and director of the clinical research center's pediatric

The Bruce Webster Professorship of Internal Medicine was established with a bequest from the estate of Dr. Bruce Webster, and gifts from Mr. Roy E. Larsen and Dr. Webster's sister, Mrs. Flora Shefrin. This chair has not yet been filled.

The Irving Sherwood Wright Professorship of Geriatrics, the first endowed chair in geriatrics in the United States, was established in 1978 by a gift from the E. Roland and Gladys Harriman Foundation in honor of Dr. Wright. The first occupant of the chair is Dr. Marc E. Weksler, director of the Division of Geriatrics and Gerontology.

In addition to the professorships described above, a chair has been endowed by Mr. Israel Rogosin, but has not yet been named.

# Form of Bequests

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center." Gifts or bequests should be made to the College, to the hospital, or to the center.

If for the college, the language may be: "I give and bequeath to Cornell University the sum of \$...... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the college, such use may be specified.

If for the hospital, the language may be: "I give and bequeath to The Society of The New York Hospital, the sum of \$......"

If for the center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Fund, Inc., the sum of \$......"

# Student Organizations and Societies

# Alpha Omega Alpha

Alpha Omega Alpha is a medical college honor society in which membership is based upon high scholastic achievement in the first three years of the Medical College curriculum. It was organized at the College of Medicine of the University of Illinois, Chicago, on August 25, 1902. A.O.A. is the only order of its kind on this continent.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual visiting professorship and an annual lecture.

Members elected from the graduating class of 1980 are: Ralph J. Blair III, Charles N. Cornell, Robert L. Danner, Jr., Bette M. DeMartini, Gail I. Genvert, Laurie

A. Gordon, Jennifer H. Gunn. Steven Herskovitz, Betsy A. Holland, Neil L. Julie, Martin E. Kessler. Kathryn E. Kindwall, Jeffrey Kocher, Spencer H. Kubo, Mark B. Landon, Marc Rubin, Shonni J. Silverberg, Steven R. Silverstein.

# **CUMC Research Society**

The Cornell University Medical College Research Society is a newly formed student organization designed to foster interest and opportunities in student research. The society serves to:

- Function as a clearing house for student research opportunities for elective credit and summer employment.
- 2. Print a bulletin of abstracts of student research.
- Provide an opportunity for students to present their research in a seminar format.
- Recognize outstanding research achievements with annual prizes given by Cornell University Medical College and other organizations.
- Sponsor a seminar program with Cornell University Medical College departmental cooperation.

Cornell University Medical College actively supports student research by awarding summer fellowships with funds received from the National Institutes of Health as well as numerous other sources. In the summer of 1980 sixty-one students received funding for research

# Alumni Association

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$25 a year. The activities of the association include a biennial reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The association maintains an office in Room C-103. An annual appeal for unrestricted funds for the Medical College is made to the members of the association.

### Officers

Kathryn H. Ehlers '57, president George R. Holswade D '43, vice president William T. Stubenbord '62, secretary Frederick Martens, Jr., '57, treasurer William A. Barnes '37, chairman, Medical College Fund C. Richard Minick '60, editor, *Alumni Quarterly* 

### **Directors**

Henriette E. Abel '59 Robert R. Abel '56 George N. Cornell '50 Armand Cortese '58 Lewis M. Drusin '64 Kathleen M. Foley '69 Denis R. Miller '59 Stuart B. Mushlin '73 Arthur W. Seligmann, Jr. '37

# **Managing Director**

Joan Steinbach

# Student Health Care

All medical and graduate students are covered by a self-insurance health program that provides hospitalization. The insurance program is a secondary plan and use of other insurance through the student's family is required first. Insurance may be purchased for student dependents if they are not eligible for other

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination given by a member of the Health Service staff. In addition, each student must have a chest X ray, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for X rays, laboratory tests, or similar procedures when they are needed. It is strongly recommended that student dependents be covered by medical insurance. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but cooperation between such physicians and the Health Service is expected. Spouses and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care

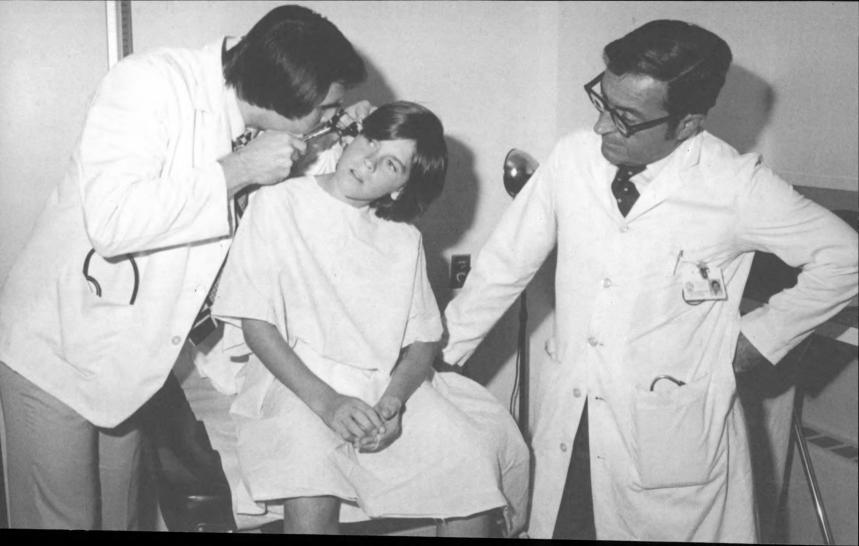
# Residence Halls

F. W. Olin Hall, a student residence completed in 1954, is at 445 East Sixty-ninth Street, directly across from the Medical College entrance on York Avenue. Olin Hall is a ten-story fireproof building containing a gymnasium, snack bar, lounge rooms, and 278 residence rooms. Each residence room is furnished as a single bedroom-study but, since two rooms share a connecting bath, they may be used as a suite for two students. if desired. The rooms are completely furnished. Single, first-year students usually live in this building.

Student rental for an academic year is \$1,260; for a full year (twelve months), \$1,512; and for periods of less than an academic year, \$126 a month. (These prices are subject to change.) Several cafeterias are available in the main college and hospital buildings.

Apartments are available in Livingston Farrand Apartments for married students and upperclassmen.

Jacob S. Lasdon House, an apartment residence at 420 East Seventieth Street, is the newest student residence and was opened for occupancy in September 1974. This building, which was made possible by a gift from the estate of the late Mr. Lasdon, contains studio and one- and two-bedroom apartments. The rents for the various units in Lasdon House range from \$282 a month to \$476 a month. Single, first-year students cannot ordinarily be accommodated in this building.



# **Cornell University**

# Departments of Instruction

# Anatomy

# **Professors of Anatomy**

D. C. Brooks, acting chairman; J. M. Bedford, W. D. Hagamen, T. H. Meikle, Jr., J. L. Sirlin, R. C. Swan, Joseph C. Hinsey Professor of Anatomy

### **Clinical Professor of Anatomy**

A. E. Inglis

# **Associate Professors of Anatomy**

R. Bachvarova, F. G. Girgis, T. C. Rodman, J. C. Weber

### Clinical Associate Professor of Anatomy

G. Stassa

### Adjunct Associate Professors of Anatomy

G. Dooher, M. D. Hamburg, M. Spiegelman

### **Assistant Professors of Anatomy**

J. Hefton, B. B. Kaplan, J. J. Rasweiler IV, M. Risley, J. M. S. Winterkorn

# **Adjunct Assistant Professor of Anatomy**

M. Romani

# Visiting Assistant Professor of Anatomy

D Soifer

### Clinical Instructors in Anatomy

G. Imber, R. G. Schwager

### **Adjunct Instructors in Anatomy**

M. Panio, P. Pellicci

### Research Associates in Anatomy

V. DeLeon, G. Kaplan, I. Spiegelman

### Postdoctoral Associates in Anatomy

F. H. Pruslin, D. Ruggiero

### Senior Lecturer in Anatomy

D. Gomez

### Teaching Assistants in Anatomy

S. Bernstein, J. Choy, D. J. Falcone

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is: What are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations? This is the substance, and this is the unique aspect of biological systems that constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with first-hand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. However powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into two courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural and functional systems. In the third trimester the brain and spinal cord are studied concurrently in their gross and

microscopic aspects. A student studies under the direct supervision of one of five tutors in each course. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

# **Required Courses**

#### First Year

Microscopic Anatomy
The structure of cells, their organization into tissues and organs, and basic concepts of how structure subserves function are considered. Concepts of differentiation and gene expression, which provide a basis for the understanding of the properties of cells and tissues, are presented. A comprehensive and systematic study of structure from the ultrastructural to the macroscopic level is pursued in the laboratory with emphasis on individual study of histological sections with the light microscope.

**Gross Anatomy** Regional anatomy is studied principally through dissection of the human body. Supplementing this are prosections by instructors, tutorial group discussions, and radiographic demonstrations.

**Neuroscience** The gross and microscopic structure of the brain and spinal cord is taught in an interdepartmental course in neuroscience in cooperation with the Departments of Neurology and Physiology. Lectures correlate the structure, function, and clinical significance of the principal concepts of the nervous system. Opportunity is provided in the laboratory for gross dissection of the preserved human brain and for the study of the serial histological sections of the human brain in three different planes.

# **Elective Options**

**Radiographic Anatomy** First trimester: twelve weeks, Unlimited enrollment. G. Stassa.

A weekly conference demonstrating, with modern radiographic methods, regional and systemic structural and functional relations and their clinical application.

Graduate Genetics Seminar Course First and second semesters: thirty weeks. Unlimited enrollment. Prerequisite: at least one course in formal genetics. M. Siniscalco, G. J. Darlington. Fall and spring semester topics to be announced.

**Clinical Anatomy of the Extremities and Back** Second trimester: eleven weeks. Unlimited enrollment. F. G. Girgis, A. Inglis, M. Panio, P. Pellicci, G. Stassa.

A functionally and clinically oriented introduction to the extremities and back. There will be each week a one-hour conference on radiographic anatomy, and a one-hour clinical conference with case presentation. Offered jointly by the staffs of the Departments of Anatomy and Radiology and the Division of Orthopedics of the Department of Surgery.

# Anesthesiology

# **Professors of Anesthesiology**

J. F. Artusio, Jr., chairman; W. S. Howland, A. Van Poznak

### Clinical Professor of Anesthesiology

M. J. Topkins

### Associate Professors of Anesthesiology

P. Goldiner, O. Schweizer

### **Clinical Associate Professors of Anesthesiology**

H. L. Erlanger, J. McCormick

## Clinical Assistant Professors of Anesthesiology

L. L. Balazs, R. G. Barile, I. Berlin, D. Borovac, G. Carlon, G. G. Curtis, R. H. Edmundson, J. L. Fox, D. Jascott, R. Kahn, A. F. Kass, R. Lin, L. J. Maggio, M. B. Meyers, M. Pratila, S. F. Rizk, S. M. Rooney, R. A. Rossi, C. Sanger, J. Schwartz, D. Susman, M. Tjeuw, L. Turner, D. Vuckovic, J. Weingram, F. S. Yao

### Clinical Instructors in Anesthesiology

G. Balint, R. Cesar, A. Cheng, H. Green, S. Gunasti, S. J. Jalandoni, J. W. Konovitch, I. Lin, M. W. Livingston, E. Lobrin-Farcon, T. V. Miles, J. Nagy, R. C. Natoli, C. Ong, J. P. Palma, J. Planner, A. N. Rachleff, J. P. Ragasa, K. J. Rosenbaum, S. Rosenbaum, H. Sayegh, M. Schnapp, J. E. Shahmoon, H. Shifrin, L. D. Silver, A. E. Wightman, A. T. Zimbard

# Instructors in Anesthesiology

X. Bogaerts, S. Jain, V. Malhotra, E. Sia-Kho, F. Towayer, M. Weibman

### Fellows in Anesthesiology

P. Bailey, C. Barrese, P. Burns, R. Cassara, J. Charney, S. DiGiovanni, G. C. Fox, R. Fuss, B. Gottlieb, R. Janik, F. Kalishman, R. Kazanjian, T. Kudlak, R. Montalvo.

G. Moskwa, H. Pinchot, J. Salzer, H. Sernaker,

S. Seidman, S. Shoum

# **Required Courses**

### Second Year

The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered, not only as depressants of the central nervous system, but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The department also assists in teaching about drugs that affect respiratory mechanisms. It participates in lectures, laboratory demonstrations, and student seminars.

### Third Year

Anesthesiology is taught in seminar-discussion periods during the clerkship in surgery. The subjects covered are: cardiac and respiratory resuscitation; the medical care of the surgical patient, respiratory therapy; and the evaluation, diagnosis, and treatment of pain.

# **Elective Options**

#### Third Year

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists and the Department of Anesthesiology.

#### Fourth Year

An elective clinical or research program is offered by the department to fourth-year students. In the clinical program, each student is assigned to an attending anesthesiologist. Students spend their time with the attending anesthesiologist, making preoperative visits, administering anesthesia, and in postoperative and recovery care. Emphasis is placed on respiratory physiology, therapy, and resuscitation. Progressive participation and responsibility is given to the student. A research elective can be arranged either at The New York Hospital or Memorial Hospital for individual students.

# Biochemistry

## **Professors of Biochemistry**

A. Meister, Israel Rogosin Professor of Biochemistry, chairman; E. M. Breslow, R. H. Haschemeyer, A. Novogrodsky, A. S. Posner, A. L. Rubin (surgery), R. L. Soffer (medicine), K. H. Stenzel (surgery)

#### **Adjunct Professors of Biochemistry**

B. L. Horecker, C.-Y. Lai

### Visiting Professor of Biochemistry

J. F. Williams

#### **Associate Professors of Biochemistry**

A. L. Boskey, T. E. Duffy (neurology), H. El-Dorry, J. S. Goldstein, R. R. Riggio (surgery), S. S. Tate, D. Wellner, K. R. Woods

#### **Associate Professors of Clinical Biochemistry**

J. Chami (surgery), G. F. Fairclough, J. D. Gass, J. F. Sullivan (surgery)

### **Adjunct Associate Professor of Biochemistry**

J. M. Manning

# **Assistant Professors of Biochemistry**

A. J. L. Cooper (neurology), J. S. Cornell, K. Field, H. Gilder (surgery), O. Griffith, B. R. Leslie (surgery), S. G. Powers, S. E. Saal (surgery), E. T. Schubert (pediatrics), M. Suthanthiran (surgery), L. Tapia (surgery)

### **Assistant Professor of Clinical Biochemistry**

M. Fotino

## **Adjunct Assistant Professor of Biochemistry**

P. P. Trotta

### Visiting Assistant Professor of Biochemistry

O. S. Won

### Instructor in Biochemistry

H. M. Fillit (surgery)

# Research Associates in Biochemistry

B. Dharmgrongartama, V. P. Wellner

### Postdoctoral Research Fellows in Biochemistry

D. S. Allison, R. H. Barth (surgery), G. de Boccardo (surgery), B. Boettcher, J. Carlson, J. Dethmers, W. B. Evans (surgery), R. Hickey (medicine), J. J. Novello (surgery), G. F. Seelig, J. Stack (surgery), P. A. Taufield (surgery), J. Williamson

### Fellows in Biochemistry

J. Novello, J. A. Pannone, J. Stack

#### Research Assistants in Biochemistry

M. E. Anderson, A. Arnold, R. J. Bridges, G. C. Chen, S. Fitzpatrick, S. Gardell, D. Kaseman, E. G. Kozak, S. Lipkowitz, D. Mynarcik, B. Nash, G. P. Todd

## Courses

**Medical Biochemistry** Required course offered during the first and second trimesters. Limited to 120 students. During the first trimester the days and hours of this course are: M 2-3; T W Th 9-10; F 2 (when scheduled; this is a conference session). During the second trimester the days and hours of this course are: M W Th 9-10; F 2 (when scheduled; this is a conference session). Specific course prerequisites: bachelor's degree required. Responsible faculty members: E. Breslow, J. S. Cornell.

Designed for medical students. The chief concern is with biochemical principles fundamental to medical problems. Basic biochemical information will be presented and integrated with selected nutritional and health problems of concern to physicians, by means of lectures, group conferences, and participation in clinical rounds.

First trimester: Chemical and physical properties of biomolecules, enzymology, and metabolism of carbohydrates, lipids, amino acids, and nucleic acids; associated clinical problems. Various faculty members.

Second trimester: Greater emphasis on the metabolic aspects of biochemistry and the medical consequences of disturbances in intermediary metabolism; special topics in biochemistry that are relevant to current medical problems. Various faculty members.

1. General Biochemistry (Biochemistry 2A and 2B) Offered by the staff of the Field of Biochemistry, Medical College Division, and of the Biochemistry Unit, Sloan-Kettering Division. Fall trimester: M T Th F 11–12. Winter trimester: T Th F 11–12. R. H. Haschemeyer, S. S. Tate, E. Balis, and staff.

This is an introductory course designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. Graduate students in biochemistry are required to pass this course (or its equivalent) prior to pursuing advanced courses.

2. Advanced Biochemistry A graduate course in biochemistry is offered jointly by the faculties of the Medical College Division and the Sloan-Kettering Division. In each trimester, two lectures are given each week. It is not essential that students take the course in any particular sequence. The following subjects will be considered at an advanced level, with particular attention to contributions of recent research.

Winter trimester: Physical biochemistry: methodology. M. Sherman and staff.

Spring trimester: Cellular regulation and control. J. Parham and staff.

- **3. Research in Biochemistry** By arrangement with the chairman of the department.
- **4. Molecular Medicine** Faculty members of the Department of Biochemistry participate in the Cornell University Medical College Program for Molecular Medicine. Information about this program may be obtained from the department.

# **Elective Options**

#### First Year

**General Biochemistry (Biochemistry 2A and 2B)** is offered as an elective course to medical students. See course description above.

# Fourth Year

Opportunities for biochemical research on a variety of topics are offered to medical students during their fourth year. The options available for 1980–81 and the special interests of the faculty are listed below.

 A. Boskey: mechanisms of biological calcification; role of phospholipid in bone and tooth formation, structural studies of hard tissues by X-ray crystallography and electron microscopy

- E. Breslow: protein-protein and metal ion-protein interactions; chemistry of the neurophysins
- A. Cooper: ammonia, amino acid, and  $\alpha$ -keto acid metabolism in the brain; use of 13N isotopic tracers in brain metabolic studies
- J. Cornell: biochemistry of reproduction; protein chemistry of the placenta
- T. Duffy: carbohydrate and energy metabolism in altered functional states of brain; ammonia detoxification and hepatic coma; effect of anoxia on the developing brain
- G. Fairclough: protein chemistry; clinical biochemistry
- J. Gass: mechanism of enzyme action; clinical biochemistry
- H. Gilder: metabolic response to surgery; electrolyte studies of gastric juice; studies in experimental shock
- J. Goldstein: role of RNA in protein synthesis; fractionation of nucleic acids; role of macromolecules and protein synthesis in the maturation of red blood cells
- O. Griffith: design and synthesis of enzyme specific substrates and inhibitors; in vivo manipulation of metabolic pathways; enzyme mechanisms; sulfur amino acid metabolism
- R. Haschemeyer: structure of fibrinogen and subunit interactions in protein and nucleoproteins; electron microscopy of enzymes and viruses; lipoprotein structure and function
- B. Horecker: mechanism of enzyme action; regulation of enzyme action; intermediary metabolism of carbohydrate
- C.-Y. Lai: bacterial toxins and membrane-medicated cell functions
- A. Meister: enzymology; proteins and amino acids
- A. Novogrodsky: lymphocyte activation; cell-cell interactions
- A. Posner: crystal chemistry; ultrastructural biochemistry; atomic structure of bone; hard tissue chemistry
- S. Powers: regulation of enzyme activity; proteinprotein interactions; mechanism of enzyme action
- R. Riggio: transplantation; dialysis and biomaterials research
- A. Rubin: collagen structure and function; biomaterials research; dialysis; transplantation research
   Schubert: egyme studies of the developing kidney.
- E. Schubert: enzyme studies of the developing kidney; investigation of renal dysfunction at enzyme level
- R. Soffer: enzymatic posttranslational modification of proteins; membrane-enzyme interaction; enzymeantibody interaction; angiotension converting enzyme and regulation of blood pressure
- K. Stenzel: transplantation; dialysis and biomaterials research
- S. Tate: amino acid, peptide transport; plasma membrane enzymes; metabolism and physiology of hypothalamic-releasing hormones
- P. Trotta: adenosine: growth and differentiation

  D. Wellner: enzyme kinetics: mechanisms of enzyme
- D. Wellner: enzyme kinetics; mechanisms of enzyme action; protein structure
- K. Woods: physiochemical understanding of human blood fractions; blood coagulation; structure of antibodies

## Medicine

#### **Professors of Medicine**

H. E. Williams, chairman; D. Armstrong, A. G. Bearn, Stanton Griffis Distinguished Medical Professor, D. V. Becker, J. P. Blass, M. D. Bogdonoff, W. A. Briscoe, C. L. Christian, B. D. Clarkson, F. Daniels, Jr., R. L. Engle, R. A. Good, S. J. Hadley, P. C. Harpel, L. E. Hindle, N. B. Javitt, T. C. Jones, L. J. Kagen, A. Kappas, E. C. Lambertsen, J. H. Laragh, Hilda Altschul Master Professor of Medicine, M. Lipkin, S. D. Litwin, E. H. Luckey, A. J. Marcus, W. P. L. Myers, R. L. Nachman, H. F. Oettgen, R. E. Peterson, G. G. Reader, Livingston Farrand Professor of Public Health, M. M. Reidenberg, R. S. Rivlin, R. B. Roberts, A. L. Rubin (surgery), B. B. Saxena, L. Scherr, P. Sherlock, M. E. Shils, G. W. Siskind, R. L. Soffer (biochemistry), M. Sonenberg, K. H. Stenzel (biochemistry), L. Thomas, D. D. Thompson, M. E. Weksler, Irving Sherwood Wright Professor of Geriatrics, S. J. Winawer

## **Professors of Clinical Medicine**

J. A. Barondess, A. W. Feinberg, M. Horwith, K. Mayer, A. H. Samiy

#### Clinical Professors of Medicine

J. W. Dougherty (dermatology), M. Dworetzky (allergy), W. J. Eisenmenger, A. Feder, J. L. German (human genetics), F. T. Kirkham, A. B. Ley, W. J. Messinger, M. A. Payne, R. A. Rees Pritchett, I. Rosenfeld, R. T. Silver, H. Steinberg, D. P. Torre

## **Adjunct Professors of Medicine**

E. H. Ahrens, L. M. Aledort, E. L. Becker, M. Brin, S. Burstein, C. P. Chapman, Z. Cohn, L. Ellenbogen, J. Hirsch, J. G. Hirsch, H. G. Kunkel, J. Lederberg, P. D. Marsden, H. Rocha, D. E. Rogers, P. Samuel, M. Siniscalco

## Visiting Professors of Medicine

A. Ebrahimzadeh, E. W. Hook

#### **Associate Professors of Medicine**

M. H. Alderman, R. S. Benua, J. S. Borer, N. Brachfield, D. B. Case, M. Coleman, B. Shannon Danes, G. J. Darlington, T. J. Degnan, E. E. Deschner, M. Gardy, E. L. Gottfried, S. Gupta, Y. Hirshaut, R. W. Houde, J. R. Hurley, E. A. Jaffe, W. D. Johnson, T. K. C. King, M. D. Lockshin, J. B. Morrison, W. Nagler, A. P. Niarchos, A. Novogrodsky, P. E. Phillips, T. G. Pickering, P. Rathnam, R. R. Riggio (biochemistry), S. S. Scheidt, J. E. Sealey, R. L. Sherman, P. E. Stokes, P. Vanamee, B. B. Weksler, C. W. Young

#### Associate Professors of Clinical Medicine

J. S. Cheigh (biochemistry), W. N. Christenson, H. E. Claremont, L. M. Drusin, T. J. Fahey, T. S. Gee, R. B. Golbey, M. C. Isaacs, F. D. Kitchin, H. Klein, S. A. Kline, C. S. LaMonte, B. J. Lee, R. D. Leeper, C. J. Lightdale, L. U. Mailloux, D. Margouleff, V. Padmanabhan, B. Safai, R. Schaefer, E. Scheiner, R. E. Schneckloth, C. R. Steinberg, J. F. Sullivan, R. J. Timberger, M. Tulin, V. P. Vinciguerra, R. E. Wittes, A. Yagoda, S. D. J. Yeh

#### Clinical Associate Professors of Medicine

S. Advocate, W. A. Anderson, L. I. Adriti, R. J. Baliff, L. T. Barnes, H. Z. Benjamin, M. R. Berenyi, M. Berkun, C. A. Berntsen, R. T. Binford, E. L. Bodian, J. L. Brown, D. J. Cameron, V. A. Cipollaro, J. A. Covey, A. N. Ehrlich, H. Erle, E. Ettinger, J. T. Flynn, A. H. Freiman, D. L. Globus, J. M. Glynn, B. H. Goldberg, H. Goldin, C. H. Goodrich, G. W. Gorham, E. J. Greenberg, S. J. Gulotta, L. L. Heimoff, R. A. Herrmann, R. Hochman, D. W. Hoskins, N. J. Isaacs, M. L. Jampol, D. S. Kent, M. Kurtz, M. J. Lacher, L. R. Lese, J. S. Lieberman, L. B. Lowe, N. M. Luger, N. T. Macris, A. W. Mead, D. G. Miller, W. J. Noble, I. Nydick, L. H. Pedersen, M. Perlmutter, F. S. Perrone, A. A. Pollack, L. W. Raymond, J Richard, E. A. Riley, W. C. Robbins, T. N. Roberts, N. Rosenthal, E. Rudd, E. Schwartz, S. D. Shappell, C. Sheard, J. P. Smith, L. S. Sonkin, P. H. Stern, L. Strauss, L. B. Turner, A. Ullmann (social work), G. I. Wadler, L. A. Wallis, C. G. Weiman, H. S. Weiss, A. O. Wells, J. M. Wertheim, A. L. Winston, M. J. Wolk

## **Adjunct Associate Professors of Medicine**

K. E. Anderson, K. D. C. Edwards, G. J. Goodfield, M. J. Kreek, E. J. Lorenze, L. J. Machlin, M. Muller, C. W. Peterson, R. J. Winchester

#### **Assistant Professors of Medicine**

F. P. Arena, Z. A. Arlin, S. A. Atlas, D. R. Bajorunas, P. A. Bluestone, A. L. Blumberg, R. Bockman, G. J. Bosl, R. L. Braham, C. P. Bredin, M. J. Broekman. M. S. Brower, A. E. Brown, W. T. Brown, D. R. Budman, E. S. Casper, J. Chami (biochemistry), M. E. Charlson, E. W. Cheng, R. P. Cohen, R. B. Devereux, A. Dimich, K. Field, C. D. Flombaum, A. Gibofsky, E. A. Goidl, J. Gold, J. E. Goldstein, R. J. Gralla, R. Green, T. Hakes, M. B. Hayes, A. N. Houghton, J. L. Imperato. R. Inman, B. Jones, L. G. Juvanovic, M. H. Kaplan, D. P. Kelsen, N. E. Kemeny, S. J. Kempin, T. Kiehn, R. Kimberly, P. D. Kligfield, J. Kluger, B. J. Klyde, I. A. Kourides, B. Koziner, S. E. Krown, R. Kurtz, B. R. Leslie, D. M. Libby, P. O. Livingston, J. A. Lopez-Ovejero, G. B. Magill, J. A. Markenson, H. Masur, R. H. Mertelsmann, S. R. Meshnick, A. Moore, R. T. Mossey, H. W. Murray, H. Nasr, M. Ochoa, S. Paget, J. E. Parrillo, M. W. Pasmantier, M. K. Pierri, C. M. Pinsky, J. Pinto, R. A. Pizzarello, E. M. Rabellino, P. M. Reiser, A. Rifkind, B. N. Romney, S. E. Saal, C. D. Saudek, D. E. Stover, D. J. Straus, M. Suthanthiran (biochemistry), M. P. Sykes, M. J. Tennenbaum, D. Vugrin, M. B. Walsh, B. M. Wilkes, B. Wong, N. L. Young, C. G. Zaroulis

#### **Assistant Professors of Clinical Medicine**

J. E. Franklin, R. J. Kaufman, J. W. Magill, C. Shapiro

#### Clinical Assistant Professors of Medicine

R. S. Aaron, H. E. Abel, R. R. Abel, J. Applebaum, R. S. Ascheim, R. A. Asherson, R. A. Baer, B. Benjamin, K. J. Berenyi, H. Bienenstock, B. J. R. Blom, O. B. Bond, B. Delli-Bovi, M. J. Bradford, B. D. Brause, R. G. Brayton, M. W. Chait, J. P. Christodoulou, D. E. Cohen, I. R. Cohen, R. Collier, C. Stephen Connolly, M. W. Conovitz, F. P. Coombs, L. B. Cooperman, L. R. Corn, A. H. Covey, D. S. Cox, J. Cramer, M. E. Cramer, V. E. Currie, M. T. Diamond, C. H. Diehl, K. Dittmar, R. J. Dresdale, J. C. Dreyfus III, A. L. Edwards, E. R. Esakof, C. T. Failmezger, G. A. Falk, S. Farber, S. Fenig, J. A. Finkbeiner, C. E. Forkner, J. S. Gitlin, D. Gluck, M. J. Goldstein, J. H. Gordon, R. V. Gorman, J. B. Graff, J. Greenspan, S. E. Greenstein, P. A. Hamlin, J. R. Harnes, J. G. Hayes, J. M. Hayes, M. L. Heilbraun, E. I. Henry, A. C. Hill, L. A. Janoff, H. H. Jay, R. C. Johnson, V. A. Joy, S. Katz, S. L. Kellman, L. Klein, R. Kloogman, L. S. Kryle, P. Kuslansky, P. B. Lang, M. C. Larsen, R. E. Lee, S. D. Leidner, M. G. Lewisohn, D. G. McKaba, G. A. McLemore, M. E. Makover, M. R. Marciano, P. L. Margulies, S. J. Marks, M. Masur, A. E. Mirkinson, G. P. Mirrer, D. W. Molander, E. Muss, R. R. Nenner, D. J. Nicoll, P. M. Nonkin, M. Nydick, P. A. Orens, L. D. Pace, G. E. Paley, B. Park, R. E. Perkins, G. A. Piccione, J. Pindyck, H. B. Pollak, M. R. Post, A. Potor, M. I. Rehmar, L. M. Reich, M. Rivelis, C. S. Rosen, A. S. Rosenberg, A. M. Ross, H. P. Saltzman, S. Schutzer, L. Schuvler, D. G. Schwartz, P. C. Schwartz, K. C. Shah, H. N. Shapiro, G. M. Silverman, H. A. Sinclaire, C. Smithen, A. G. Snart, L. M. Soletsky, H. A. Solomon, J. Sotelo, F. H. Streuli, R. Stritzler, M. L. Tapper, P. G. Tolins, F. A. Tomao, T. I. Tyberg, R. J. Ulberg, L. J. Vorhaus, J. H. Weiss, J. M. Weiss, K. A. Whelan, M. L. Wiedman, D. A. Zackson

#### **Adjunct Assistant Professors of Medicine**

R. A. Berman, R. S. Bodaness, B. I. Cohen, H. R. Dettelbach, R. G. Lahita, J. Markofsky, F. S. Schwartz

#### Instructors in Medicine

A. T. Brown, M. B. Collins, J. Coromilas, H. Fillit, B. J. Hartman, D. Hollister, R. L. Jones, P. C. Klass, S. Konigsberg, R. L. Letcher, M. J. McKinley, P. F. Miscovitz, P. L. Morris-Brink, M. S. Pecker, P. Schulman, K. P. Scileppi, S. T. Silk, C. Storey-Johnson, E. S. Treiber, R. P. Warrell, Jr.

#### Clinical Instructors in Medicine

G. Aprile, E. M. Aronow, J. R. Bakke, J. A. Belladonna, L. J. Benjamin, A. Binder, I. H. Blumenfeld, E. V. Calvelli, Y. A. Cestero, S. H. Charno, D. R. Chiarieri, B. E. Cohen, E. . Cohen, J. L. Cohen, M. L. Cohen, A. J. de Silva, C. P. Deal, R. A. DeLeon, J. G. Diener, J. Elahi, G. C. Ellis, K. A. Ewing, A. Faga, M. J. Fisher, W. M. Frank, A. Fried, M. H. Fried, P. M. Gelber, W. Gershenson, E. Gillman, M. Goldberg, I. Horowitz, M. L. Hundert, K. S. Hurst, P. M. Hyman, F. W. lacobellis,

B. Inkeles, C. Jarowski, T. P. Jernigan, M. J. Kleiner, A. Lantz, J. J. LaRosa, I. S. Lowenthal, H. A. McManus, P. Marcus, R. S. Martin, I. I. Mason, S. C. Mead, J. M. Meron, S. I. Michael, C. H. Miller, C. Mitgang, C. J. Modny, F. X. Moore, R. W. Morrow, J. Nagler, R. W. Nagler, S. A. O'Shaughnessy, M. C. Phillips, A. Philson, E. W. Powers, I. Pravda, G. D. Resnick, C. Ressler, S. Richmond, N. A. Robbins, A. M. Rochwarger, J. S. Rodman, J. Romano, B. M. Rosoff, G. L. Ross, K. A. Rubin, M. Schmerin, A. Schrenzel, B. H. Shalette, S. R. Siegel, M. G. Smilay, M. N. Solny, A. B. Spindler, E. L. Stannard, R. A. Stephens, R. Stern, R. L. Strauss, S. Strick, E. C. Sturla, I. Tiongco, A. Tucci, T. L. Tuttle, W. P. Wagner, P. Willensky, D. J. Wolf, E. Wolff, S. S. Yormak, M. J. Zema

## Visiting Instructor in Medicine

R Levin

#### Senior Research Associate in Medicine

Y. T. Kim

## Research Associates in Medicine

B. R. Bariso, D. Bosukunda, G. J. Botwin, G. I. Byrne, J. F. Camiscoli, T. Francus, G. N. Gupta, R. Gupta, K. Iwata, J. Keithly, B. Kulkarni, C. E. Moody, Jr., P. Post, S. Reed

## Senior Visiting Lecturer in Medicine

Scharer

## Fellows in Medicine

T. Ahmed, S. L. Allen, A. M. Al-Katib, R. H. Barth, H. B. Baum, A. Bellucci, P. Benedetto, E. Berman, C. Beverley, M. Blumenreich, G. Bolen, L. Borenstein, T. Braun, W. J. Breen, J. Brenner, R. Bronzo, E. Camacho, R. Chapman, M.-Y. Chou, I. Chung, C. J. Coonley, G. de Boccardo, D. J. Dhabar, R. Dorazio, J. J. Durrett, B. Dworkin, P. Dworkin, C. Eng. R. Eng. B. Epremian, S. B. Eisenberg, H. Estepan, W. B. Evans, S. P. Feldman, N. Flomenberg, A. Forastiere, P. Francioli, J. Friedman, P. Friedman, J. L. Gabrilove, P. S. Gentile, M. Gersten, E. J. Gold, H. L. Goldberg, B. R. Gordon, H. Hansen, H. Harper, E. Hawrylko, C. A. Hochreiter, L. M. Itri, K. K. Jain, M. K. Jason, L. A. Kalman, S. M. Kaner, S. Kaplan, D. Kerr, L. Kessler, M. Kris, J. J. Kutscher, A. Langleben, J. C. Laurence, M. Lewin, M. L. Lewin, L. L.-K. Leung, T. C.-M. Li, L. A. Linday, J. McCravey, S. Wyman McKean, M. J. Magee, S. K. Magid, A. N. Margioris, D. A. Mazal, R. Michaelson, D. H. Miller, M. Minerbrook, B. Needles, A. I. Neugut, J. Novello, L. Ong, T. M. Parris, M. Perlin, P. Phillips, J. R. Polk, J. H. Powell, M. E. Rader, J. Redman, J. T. Ruggiero, S. L. Saletan, H. I. Scher, S. Schwartz, E. Schned, C. L. Sears, G. Shepherd, W. C. Siroty, C. Small, R. Soave, R. B. Solomon, N. Sonino, P. Sordillo, J. Soufer, J. Stack, R. Stechel, J. Stevenson, P. Stiff, R. J. Swiller, J. S. Tannenbaum, P. A. Taufield, H. D. Teitelbaum, D. E. Tirado, N. Toshav, L. Walters, A. M. Weinstein, G. Weissman, S. Welt, M. Zullo

#### Postdoctoral Associates in Medicine

C. C. Cuba, R. T. Dutkowski, T. Fukunaga, G. W. Harshfield, T. Kinoshita, H. Kleinert, N. J. Pellicione, I. Sen, N. Yoshida

## Senior Clinical Associates in Medicine

D. S. Blumenthal, B. R. Meyer, D. White

#### Clinical Associates in Medicine

A. Adler, K. L. Ales, M. Anesta, W. P. Ballard, B. Beyda, R. S. Blumberg, F. A. Bonavita, D. B. Boyd, D. M. Breidbart, W. J. Burtis, R. Busch, W. Caccese, P. Carr, I. F. Charo, A. Chiaramida, A. B. Covit, R. E. Cunnion, R. F. Daines, D. Edlin, A. Einzig, M. Elam, C. Farber, R. Fath, A. O. S. Fels, P. Fine, H. S. Flamenbaum, D. D. Frank, K. W. Franklin, R. Furie, H. Gerstein, S. J. Gillin, W. Given, J. Goldberg, S. M. Goldberg, L. Goldfarb, R. I. Greenblatt, H. Guttmann, C. C. Hawkins, D. M. Hallbert, K. Hoffman, M. Jacobs, R. D. Kaplan, J. Kolitz. J. A. Kovacs, H. M. Kramer, M. M. Kuntz, M. A. Lampert, W. H. Lee, E. S. Lenger, J. S. Levick, H. H. Liu, S. E. McMahon, R. L. Malamet, J. Marino, J. A. Mariglio, Jr., D. A. Melnick, E. Mermelstein, I. J. Miller, R. H. Moseley, T. W. Nash, W. A. Notaro, W. H. O'Connor, F. P. Ognibene, C. M. Otto, M. A. Prince, R. Rakowitz, S. D. Reed, C. E. Riester, P. M. Romano, J. A. Rommer, R. M. Rothbart, N. Sadick, J. E. Salmon, R. K. Saltz, G. L. Schaer, J. A. Schmierer, M. P. Schori, T. L. Schreiber, T. R. Scofield, R. L. Silverstein, M. D. Smar, J. H. Sondheimer, H. Staszewski, A. Stern. H. P. Terry, T. W. Y. Tow, J. Turnier, M. J. Wade, V. A. Wang, P. B. Watkins, R. S. Weiner, G. A. Weinstock, S. Weisholtz, H. Weiss, N. Wenner, S. W. Werns, M. R. Wish, D. Z. Young, J. M. Zimmerman

#### Teaching Associates in Medicine

D. Mangraviti, M. Zuckrow

#### Staff Associates in Medicine

J. Banes, S. Blank, J Brandon, B. Ferris, R. Kramer, C. Lipper, W. L. Marsh

#### Research Assistants in Medicine

Y.-W. Chen, J. Choy

#### Teaching Assistant in Medicine

G. Potter

The program for the Department of Medicine is based on a number of cardinal premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career. (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at the clinical or laboratory levels. (3) The scope and limitations of medicine are best revealed through the demands and responsibilities of patient care. (4) The need and privilege to provide sympathetic under-

standing and support to the patient and the patient's family are prerequisite to being a good physician.

It is evident that a large number of options are open to those pursuing a career in medicine, a diversity that includes clinical, specialty, laboratory, and administrative areas. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities, and needs. There is no preconceived image of an ideal graduate except that he or she be competent and content in the career choice, and be sufficiently well prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow thoughtful exploration and evaluation of career possibilities.

The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concepts developed in the basic sciences. This approach to the interpretation of symptoms, signs, and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value. The depth to which each student pursues the pathophysiologic approach will vary from a study of the physical and emotional factors responsible for illness in a single patient to an investigation of a disorder at a fundamental level. Clearly this spirit of inquiry is essential to all areas of medicine. The program of the department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through their experiences, students will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

## **Required Courses**

#### First Year

Introduction to Medicine The transition between the undergraduate and professional level may be a bewildering experience. The knowledge and understanding of various basic sciences to be acquired appears, at times, to be overwhelming—often becoming an end in itself rather than recognized as the foundation of medicine. The purpose of this course is to provide the student with an overview of selected areas in which direct correlations and applications can be made between knowledge acquired in the basic sciences and both the practice and art of clinical medicine and the science of clinical investigation.

#### Second Year

Instruction begins in the last trimester and consists of two coordinated courses.

Physical Diagnosis The course is an intensive introduction to the basic bedside clinical skills, i.e., the taking of a medical history and the performance of a physical examination, with emphasis on the anatomic and physiologic principles underlying the important symptoms and signs encountered in clinical medicine. Lectures and demonstrations, supplemented by extensive use of audiovisual and electronic aids, form the didactic basis of the course; special attention is directed to the medical interview and the approach to the sick. Students are assigned in small groups to clinical tutors, with whom they refine their bedside skills in biweekly examination of inpatients under close tutorial supervision. Patient examinations are carried out at the Cornell cooperating hospitals: The New York Hospital, Memorial Hospital, and the North Shore University Hospital.

Pathophysiology The course is designed to link the basic sciences with clinical medicine by demonstrating how laboratory methods and information may be used in clinical practice. Each of the divisions of the department participates with presentations, including lectures and case studies, that are discussed in small groups. Laboratory exercises are employed in the hematology and renal sections to provide an understanding of analysis of blood and urine. The approaches used to determine the degree and extent of deranged function of organ systems in the context of their pathophysiology are developed.

#### Third Year

Clerkship Each student is assigned to one or more of the medical services of the Cornell cooperating hospitals for a period of eleven weeks. He or she is an integral member of a medical team which is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records the findings. The student's results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. The student actively participates in the continued care of the patient, in part to verify or alter his or her initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by seminars and by the large number of conferences and lectures regularly held by the department.

## **Elective Options**

Over fifty electives are offered throughout the four years. The comprehensive program includes participation in laboratory or clinical research or, if desired, further opportunities for patient care. Each year the elective list is revised and can be found in the Catalog of Electives.

## Microbiology

## **Professors of Microbiology**

W. F. Scherer, chairman; W. M. O'Leary

## **Associate Professors of Microbiology**

R. W. Dickerman, L. B. Senterfit, D. H. Sussdorf

## **Assistant Professor of Microbiology**

M. E. Wiebe

## Research Assistants in Microbiology

C. Blanckmeister, Y. W. Chen, M. P. Davey, J. A. Federick, R. W. Kozak, L. H. Morehead, D. Owen, D. R. Stanick, L. Staiano-Coico, A. Swiecicki, J. E. Van Hamont, D. Wallace

## **Required Courses**

#### Second Year

Microbiology and an Introduction to Infectious Diseases First and second trimesters. Laboratory work includes an introduction to the procedures used in studying microorganisms, various physical and biological manifestations of antigen-antibody reactions, a survey of the microbial flora of the upper respiratory tract of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, bacteria, rickettsiae, and viruses. The lectures are directed toward the development of basic concepts. particularly as they relate to microbial physiology, and host-parasite relationships, including immunologic mechanisms in infectious disease. Emphasized are the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention also is given to the immunological principles underlying hypersensitivity, autoimmunity tolerance, and rejection of transplants. Students also may carry out research in the Department of Microbiology under guidance of individual faculty.

## **Elective Options**

Completion of Microbiology and an Introduction to Infectious Diseases (or its equivalent) is a desirable prerequisite for elective work in microbiology

**Research in Microbiology** Offered all year. Can be done entirely in the Department of Microbiology or may involve another preclinical or clinical department. Hours to be arranged with a faculty sponsor (sponsors are listed below).

R. W. Dickerman: involvement of birds and mammals in the ecology of mosquito-transmitted viruses

W. M. O'Leary: microbial cellular composition; exotoxin and endotoxin structure and function; mechanisms of pathogenesis; microbial lipids; antibiotic function

- W. F. Scherer: cell-virus relationship; virus virulence; host defense mechanisms; ecology and epidemiology of arboviruses, especially mosquito-borne encephalitis viruses of tropical North and Central America
- L. B. Senterfit: antigenic structure of mycoplasma; pathogenesis of respiratory viral and mycoplasmic disease; vaccine development; clinical microbiology
- D. H. Sussdorf: function of the thymus and related lymphoid tissues in development of immunocompetence; immunology of the athymic ("nude") mouse; immunologic factors in chemical carcinogenesis
- M. E. Wiebe: molecular virology: mechanism of virus replication, host cell response, viral interference, and viral virulence

**Microbiology Seminar** Scheduled biweekly. Topics in microbiology and infectious diseases are presented by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

Microbial Chemistry and Physiology Lectures stress the growth and death of microorganisms, their chemical composition and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosynthesis, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolism. Third trimester. Two lectures and two laboratory periods weekly. Dr. O'Leary.

Advanced Immunology Cornell-Sloan-Kettering interdivisional course. Lectures, discussions, and assigned readings cover properties of antigens and antibodies; mechanism of antibody- and cell-mediated immunity; complement and other amplifiers; immunologic injury; regulation of the immune response; genetics and immunology of transplants and tumors. Laboratory work includes the isolation, quantitation, and characterization of antibodies, critical measurement of antigen-antibody reactions, and the dynamics of the *in vivo* antibody response. Second and third trimesters, two lectures weekly; third trimester, two laboratories weekly. Dr. Sussdorf

Advanced Virology This course presents modern concepts and techniques, including physical and chemical properties of viruses; structure-function relationships, viral genetics, viral morphogenesis; mechanisms of viral infections; viral oncology; epidemiology; slow viruses; newer infectious agents (viroids); and the interferon system. Third trimester. Two lecture-seminars and laboratories weekly. Dr. Wiehe

Advanced Microbial Genetics Examinations of selected concepts of molecular genetics using both prokaryotic and eukaryotic microorganisms as models. Topics include intra- and intercistronic complementation, mitotic and meiotic recombination, genetic control mechanisms, gene conversion, poly-

ploidy and aneuploidy, genetic interference, mechanisms of suppression, and polarity. Emphasis is given to the genetic methods available for studying hereditary material. Third trimester. One lecture weekly. Laboratory demonstrations.

Advanced Diagnostic Microbiology Techniques of management and procedures used in a clinical microbiology laboratory. Emphasized are the isolation and rapid identification of organisms from various types of clinical specimens. Liberal use is made of clinical materials available through the diagnostic laboratories of The New York Hospital. Third trimester. Two lectures and two laboratories weekly. Dr. Senterfit.

Clerkship in Diagnostic Microbiology Training in diagnostic microbiology as it is practiced in a large hospital laboratory, using the facilities of the diagnostic microbiology laboratories of The New York Hospital. Any trimester. Dr. Senterfit.

#### **Fourth Year**

A variety of activities in study, research, and teaching is available to fourth-year students during their elective program of study. Included are:

## Externship in Microbiology

Teaching in Microbiology

Research in Microbiology

Clerkship in Diagnostic Microbiology Dr. Senterfit

Advanced Immunology Dr. Sussdorf

Microbial Seminar Dr. O'Leary

Microbial Chemistry and Physiology Dr. O'Leary

Advanced Diagnostic Microbiology Dr. Senterfit

Advanced Virology Dr. Wiebe

General Microbiology Dr. Hutchison, Dr. O'Leary

For detailed descriptions of these options, the student should consult the *Catalog of Electives*.

## Neurology

## **Professors of Neurology**

F. Plum, Anne Parrish Titzell Professor of Neurology, chairman; I. B. Black, J. P. Blass, Winifred Masterson Burke Professor of Neurology, A. M. Chutorian, M. S. Gazzaniga, F. H. McDowell, Winifred Masterson Burke Professor of Rehabilitation Medicine, J. B. Posner, D. J. Reis, W. R. Shapiro

#### **Professor of Clinical Neurology**

J. J. Caronna

## **Adjunct Professors of Neurology**

J. B. Brierley, M. Kumada, L. Sokoloff

## **Associate Professors of Neurology**

H. R. Beresford, T. E. Duffy, K. M. Foley, T. H. Joh, H. Kutt, D. E. Levy, V. Pickel, R. W. Price, D. A. Rottenberg

## Associate Professors of Clinical Neurology

M. Olson, F. Petito, G. E. Solomon, M. Olson, P. Tsairas

## **Clinical Associate Professors of Neurology**

R. H. Coll, M. A. Green, T. C. Guthrie, G. H. Klingon, H. deC. Peterson, I. D. Schlesinger, P. H. Zweifach

## Research Associate Professor of Neurology

J Z Ginos

## **Assistant Professors of Neurology**

J. C. Allen, H. Baker, A. J. L. Cooper, M. Coughlin, G. N. T. de Pinczuk, G. E. Gibson, J. A. Kessler, J. E. LeDoux, P. Maccabee, V. S. Murthy, M. Nakai, D. H. Park, G. W. Pasternak, W. A. Pulsinelli, R. A. Ross, W. T. Talman, B. Volpe, D. Young

## **Assistant Professors of Clinical Neurology**

M. S. Horwich, W. H. Reichert, J. A. Schaefer, J. W. Selman

#### Clinical Assistant Professors of Neurology

R. H. Blanck, W. A. Camp, J. S. Feigenson, E. Hirschenstein, J. T. Kessler, D. M. Pietrucha, D. G. Rawlinson, L. N. Travis, B. C. Wilson

#### Instructors in Clinical Neurology

N. W. Barton, H. S. Gutstein, H. C. Lu, P. E. Mahoney, M. B. Max, N. Nealon, D. A. Ruggiero, C. B. Saper, T. M. Voorhies

## Clinical Associates in Neurology

L. L. Barclay, B. A. Barres, T. L. Cascino, J. M. Cederbaum, M. Ehrlich, D. J. Giulian, H. S. Greenberg, D. A. Hafler, M. Jacewicz, R. Kanner, S. Kori, R. P. Kraig, J. Leavengood, D. R. MacDonald, E. A. T. Obbens, R. Payne, S. Rapoport, L. R. Rogers, D. J. Rosenstein, D. M. Simpson, W. Snider, W. Wasserstrom, W. K. A. Yung

## Research Associates in Neurology

A. Del Bo, A. K. Dhar, C. A. Garcia, A. R. Granata, C. ladecola, H. J. Ksiezak, R. Lapinski, L. W. Tucker

## Fellows in Neurology

J. E. Adler, D. M. Armstrong, J. G. Cairncross, C. A. Ross, R. Wiley

The department has three responsibilities: patient care, teaching, and research. The faculty supervises the care of patients with neurological diseases at The New York Hospital, Memorial Hospital, the Hospital for Special Surgery, and the North Shore University Hospital. This rich clinical exposure and the rewards of providing care to patients from many geographic and social backgrounds are shared by students and residents. The research laboratories and programs of the department are located within the Medical College and at the several hospitals. These laboratories conduct both fundamental and clinical research, seeking the basic answers to neurological diseases and new ways to improve the delivery of treatment to patients. Research projects include the search for new chemicals to treat brain cancer, investigations into the mechanisms and treatment of brain tissue damage in stroke, the discovery and analysis of chemicals in the brain that cause and control the emotions and the blood pressure, a search for basic mechanisms causing epilepsy, and a fundamental examination of the causes and prevention of neurological birth defects.

Two goals guide the teaching of students. One is to learn diagnosis and treatment by a thorough knowledge of the physiology and biochemistry of the major neurological diseases. The other is to transmit an initial understanding of the brain as an adaptive organ regulating man's internal milieu and outward behavior. Formal teaching begins in the second year and continues thereafter.

## **Required Courses**

## Second Year

An introductory course in neurological diagnosis is offered in the third term, closely linked to the general physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and abnormal signs and symptoms. Each week under an instructor's guidance, students examine patients with neurological disease.

## Third Year

A one-month clinical clerkship is spent in the neurological pavilion of either The New York Hospital or Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of patients under the close supervision of resident staff and tutors. Extensive reading is encouraged in order to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems where current research is making important contributions.

## **Elective Options**

A variety of electives in either clinical work or laboratory research is available to fourth-year students. Dr. Plum provides an advanced seminar in behavioral topics. Inpatient clerkships are available for whole-time work in neurology at Memorial Hospital and in clinical neurology at The New York Hospital and North Shore

University Hospital. Dr. McDowell provides a varied outpatient elective that guarantees the student exposure to almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

## Obstetrics and Gynecology

## Professors of Obstetrics and Gynecology

W. J. Ledger, Given Foundation Professor of Obstetrics and Gynecology, chairman; P. A. McF. Auld (perinatal medicine), J. M. Bedford (reproductive biology), S. J. Birnbaum, A. N. Fenton, F. F. Fuchs, Harold and Percy Uris Professor of Reproductive Biology, E. E. Kramer, J. L. Lewis, Jr., B. B. Saxena (endocrinology), S. Silagi (genetics)

## Professors of Clinical Obstetrics and Gynecology

E. A. Graber, G. G. Hawks

## Adjunct Professor of Clinical Obstetrics and Gynecology

H. R. K. Barber

## Clinical Professors of Obstetrics and Gynecology

E. W. Davis, W. P. Given, R. Landesman, R. A. Ruskin, W. J. Sweeney III, H. J. Tatum

## **Associate Professors of Obstetrics** and Gynecology

A.-R. Fuchs (reproductive biology), R. G. Harper (perinatal medicine), W. B. Jones, P. Rathnam (endocrinology)

## **Associate Professor of Clinical Obstetrics** and Gynecology

L. L. Cederqvist

## Clinical Associate Professors of Obstetrics and Gynecology

J. M. Astrachan (psychiatry), M. I. Buchman, D. J. Casper, W. F. Finn, B. M. Garfinkle, S. T. Horwitz, N. M. Luger (medicine), F. W. Martens, M. A. Platt, D. J. Rothe, S. F. Ryan, E. D. Schwartz, F. Silverman, E. T. Steadman, L. F. Vosburgh, R. E. Wieche

## Assistant Professors of Obstetrics and Gynecology

A. S. Berkeley, C. B. Braun, R. A. Bronson, S. Dittmar, M. L. Druzin, G. Farahani, L. G. Juvanovic (medicine), P. Klass (genetic counseling), V. F. Mastrota, D. L. Rosenfeld, A. Toth

## Clinical Assistant Professors of Obstetrics and Gynecology

N. K. Basile, S. L. Bednoff, A. Brockunier, Jr., R. M. Caplan, S. Cohn, J. T. Cole, P. Concannon, J. G. Davis. R. J. Derman, V. du Vigneaud, Jr., A. J. Felice, B. Garfinkel, W. Gladstone, H. B. Guyer, E. Hakin-Elahi, A. Heltai, D. F. James, R. E. Kaye, E. O. Kubec, B. D. Lecher, P. Mazzarella, B. Nathanson, G. G. Panter, Z. I. Saary, S. J. Siegel, F. Surur, K. Vasudeva, W. D. Walden, V. Werden

## Instructor in Obstetrics and Gynecology

W. Kim

## Clinical Instructors in Obstetrics and Gynecology

A. F. Bozza, J. H. Brander, P. A. Bresnick, P. Conrad, J. A. D'Urso, M. Eichler, G. B. Feldman, N. Fidel, J. Finkelstein, R. J. Fitzgerald, H. F. Gardstein, C. K. Hamrang, M. A. Harris, E. I. Jacobson, S. Kahner, H. Kraft, D. J. Leahy, L. J. Lippert, L. J. Lissak, J. W. Malkary, H. Marchbein, B. Meisel, R. N. Melnick, E. K. C. Mok, W. B. Paley, J. I. Paris, R. Puckett, K. A. Schrotenboer, I. E. Schwab, A. S. Sherwin, P. Soffer, J. A. Spiegel, M. J. Strongin, M. Toth, D. B. Weinstein, E. Weisfogel, J. J. Zaia

## Lecturer in Obstetrics and Gynecology

R. Jovanovic

## Research Associates in Obstetrics and Gynecology

T. A. Calvelli, G. N. Gupta

## Fellows in Obstetrics and Gynecology

P. Husslein, E. Krim

## **Required Courses**

Second Year

Orientation and Introduction to Gynecological **Examination** During the last trimester of the second year, one three-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Films and models for training in pelvic examination are presented.

## Third Year

## Introduction to Clinical Obstetrics and Gyne-

cology This course combines theoretical instruction with clinical experience in obstetrics and gynecology. There are daily lectures on the core curriculum by the teaching staff, as well as assignment of the students to obstetrical and gynecological teams. Exposure to patient care will be offered under the direct supervision of the attending physicians and the resident

Triweekly sessions, exclusively for the students, will be offered to permit the students to present and discuss interesting cases that they are interested in on the clinical services. In addition, departmental staff conferences as well as staff rounds are offered.

Some students will be assigned to North Shore Hospital, with the majority remaining at the New York LyingIn Hospital. Those at Lying-In Hospital will complete part of their clerkship at the LaGuardia Hospital, where additional student obstetrical experience is available.

At the conclusion of the course, an evaluation of the student will be based on a written examination, an oral examination, and evaluation of the student's work on the clinical service. This information will be available to the student on request.

Departmental Staff Conferences and Rounds
A weekly staff conference is held on Monday from
4 to 5 p.m.

## **Elective Options**

A full program of fourth-year electives is offered in the department, including advanced training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in ongoing laboratory research. These electives are listed and described in detail in the Catalog of Electives.

## Ophthalmology

## **Professors of Ophthalmology**

D. J. Coleman, John Milton McLean Professor of Ophthalmology, chairman; R. M. Ellsworth, F. A. Jacobiec

## **Professors of Clinical Ophthalmology**

T. Iwamoto, H. A. Lincoff

#### Clinical Professors of Ophthalmology

W. Peretz, D. M. Shafer

### **Adjunct Professor of Ophthalmology**

F. Lizzi

#### Associate Professor of Ophthalmology

F. D. Kitchin

## Clinical Associate Professors of Ophthalmology

D. Abramson, T. D. Cherubini, B. Curtin, L. S. Harris, R. Harrison, D. B. Karlin, H. Katzin, I. H. Kaufman, P. L. Laino, A. Mamelok, A. I. Turtz, S. Veronneau, L. Yanuzzi, P. H. Zweifach

## **Assistant Professor of Ophthalmology**

J. Sigelman

## **Assistant Professors of Clinical Ophthalmology**

S. Chang, B. G. Haik

## Clinical Assistant Professors of Ophthalmology

H. J. Agatston, S. Bloomfield, G. M. Branower, E. F.

Constantine, A. D. King, M. A. Lieberman, H.-Z. Lin, R. Muchnick, P. Odell, S. Packer, T. Poole, J. S. Schutz, M. Smithline, E. E. Weise, A. Wendling

## Instructors in Ophthalmology

G. M. Nolan, W. Whitmore

## Clinical Instructors in Ophthalmology

D. Aronian, L. C. Gordonson, Y. Kahanowicz, D. Pearce

## Clinical Associates in Ophthalmology

A. E. Ballen, J. K. Belville, V. G. Bethune, R. Z. Braunstein, R. J. Bays, R. B. Cohen, L. Dalaveris, A. Edgerton, R. H. Gold, J. Lombardo, P. McDonald, D. Seretan, K. Stern, M. Stoj, T. P. Sullivan, J. Taylor

## Fellows in Ophthalmology

S. Guillory, H. Manasse, C. Solorzano

# Senior Research Associate and Lecturer in Ophthalmology

M. Smith

## Research Associates in Ophthalmology

G. J. Simoni, M. Vogt

## Staff Associate in Ophthalmology

C. Tynik

## **Required Courses**

## Second Year

Instruction in ophthalmology begins as part of physical diagnosis instruction in the third trimester of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

#### Third Year

During the third year, the class is divided into eight groups that participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology. The entire series offers instruction in the most frequently encountered diseases of the eye.

Third-year students are offered an externship in ophthalmology as part of the surgical curriculum.

## **Elective Options**

#### Fourth Year

Two fourth-year students per module can participate in the elective period. During their modules, they examine patients hospitalized for surgery and review the cases with attending ophthalmologists. The student then observes the actual surgery and attends teaching rounds with the resident and attending staff who present interesting and problem cases for detailed review and discussion.

A similar elective is available at the affiliated Manhattan Eye and Ear Hospital. In addition, electives are available for students who have completed the third-year externship. These include the ophthalmic specialties such as oncology, vitreous-retina and neuro-ophthalmology. A research elective in one of the ongoing departmental programs is also available.

## Otorhinolaryngology

## Professor of Otorhinolaryngology

J. A. Moore (consultant-in-charge)

## Clinical Professor of Otorhinolaryngology

J. R. Williams

## Clinical Associate Professors of Otorhinolaryngology

W. M. Glass, R. W. Selfe, Jr.

# Clinical Assistant Professors of Otorhinolaryngology

B. Campbell, L. Dropkin, W. F. Flynn, S. Howe, K. F. Mattucci, N. J. Pastorek, W. F. Robbett, W. S. Schley, J. H. Seward

## Instructors in Otorhinolaryngology

D. Cang Cuesta, L. Kuszewska, F. Lavine, S. Nodelman

## Clinical Instructors in Otorhinolaryngology

E. Greenfield, I. Kho

## **Required Courses**

#### Second Year

Instruction begins in the third term of the second year. The class is divided into two groups. One session of one hour is provided in otorhinolaryngologic problems as part of the course in physical diagnosis.

## **Third Year**

During each clerkship in surgery, eleven or twelve students spend five or six periods of two hours each in the otorhinolaryngology outpatient clinic. These

sessions are held on Tuesday afternoons from 1–3 p.m. in the outpatient clinic. Students gain experience with patients who are being considered for surgical therapy. They do the workup on the patients, taking full histories and performing physical examinations on the new patients to whom they are assigned. The workup on each patient is presented to an attending otorhinolaryngologist. Informal lectures are given at the beginning of the two-hour afternoon sessions. To supplement these informal lectures, interesting cases are selected and presented to the group for examination and informal discussion. Ambulatory-care patients and inpatients are used in the case presentations.

## **Elective Options**

#### Fourth Year

Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of one or two. Additional modules may be taken under special circumstances. Full-time attendance is desirable. However, half-time attendance may be arranged at the discretion of the department head. During the clerkship, the student's time is divided between duty on the ward, in the otorhinolaryngology outpatient clinic and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff and has the opportunity to observe various otorhinolaryngologic surgical procedures in the operating room. The student also attends the weekly and monthly conferences. Prerequisite: courses in the second and third years. The advisers to students planning this fourth-year elective are Dr. James A. Moore and Dr. Robert W. Selfe.

## Pathology

## **Professors of Pathology**

J. T. Ellis, chairman; C. G. Becker, P. G. Bullough, G. F. Gray, F. A. Jacobiec, P. H. Lieberman, M. R. Melamed, R. C. Mellors, C. R. Minick, G. E. Murphy, G. C. Poppensiek, C. A. Santos-Buch, S. S. Sternberg, L. Thomas

## Clinical Professors of Pathology

J. W. Dougherty, S. Gross, A. Kellner, E. E. Kramer

## **Adjunct Professors of Pathology**

J. B. Brierly, E. M. Gross, R. J. Perper, L. H. Sobin

## **Associate Professors of Pathology**

D. R. Alonso, E. L. Gottfried, S. I. Hajdu, A. G. Huvos, F. W. Quimby, P. Rosen, L. B. Senterfit, J. M. Woodruff

## **Adjunct Associate Professor of Pathology**

Y. M. Rho

## **Associate Clinical Professors of Pathology**

E. P. Bassett, E. L. Coffey, J. A. Mouradian, M. Oka, C. K. Petito, M. Susin, C. W. Watson, C. F. W. Wolf

## Clinical Associate Professors of Pathology

A. S. Carlson, A. M. Prince, T. Robertsen

## **Assistant Professors of Pathology**

R. S. K. Chaganti, R. A. Erlandson, A. Firpo-Betancourt, W. G. Harrison, H. Kahn, R. Kalter, M. D. King, L. R. Sharer, T. Sun, V. J. Vigarita

#### Instructors in Pathology

M. L. Alonso, C. F. Besanceney, G. Gottlieb, D. G. Rawlinson

## Clinical Associates in Pathology

J. B. Amberson, T. Babiak, S. Chasko, Q. Chess, M. Magid, C. Maniatis, S. H. Pearlman, P. Peterson, R. Rubin, D. J. Schecter, A. Strupp

#### Research Associates in Pathology

D. Hajjar, S. Huber, L. Job, M. M. Litrenta, B. Salisbury

### **Associate in Pathology**

J. Bancroft

## **Facilities**

The Department of Pathology occupies two floors of the central part of the college building, located above the library and in immediate contact with the hospital, the autopsy room being in the connecting wing between college and hospital. The teaching is largely concentrated on the third floor where the autopsy room and demonstration room for pathological anatomy are located. Classrooms for microscopy are situated on the second floor. The third and fourth floors also contain unit laboratories for staff members and graduate students and for technical preparation. Animal quarters and facilities for experimental work are on the fifth and seventh floors.

The postmortem service of The New York Hospital, Hospital for Special Surgery, Rockefeller Hospital, and the Westchester Division affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies at The New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed

## **Required Courses**

## Second Year

**General and Systemic Pathology** First and second terms of the second year. Professor Ellis and staff.

Gross and histological lesions are studied and their pathogenesis and correlation with disturbed function considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with cell injury, inflammation, and repairs. It then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology, including an introduction to neuropathology.

Clinical Pathological Conferences These conferences are held in cooperation with the staffs of the clinical departments of the hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

## **Elective Courses**

#### Second Year

During the spring term, time is used for elective courses in pathology for research or for independent study. Electives are offered in postmortem pathology, cardiovascular pathology, cytopathology, forensic pathology, pathology of the gastrointestinal tract, laboratory medicine, neuropathology, oral pathology, pediatric pathology, pathology of renal disease, and pathology in surgery.

#### **Fourth Year**

The following electives are offered: surgical pathology, cytology, forensic pathology, musculoskeletal pathology, neuropathology, pediatric pathology, obstetrical and gynecological pathology, renal pathology, cardiac pathology, anatomic pathology, computer applications in pathology, and laboratory medicine. Please see the *Catalogue of Electives* for description of courses, prerequisites, times, and instructors.

## **Pediatrics**

## **Professors of Pediatrics**

M. I. New, Harold and Percy Uris Professor of Pediatric Endocrinology and Metabolism, chairman; P. A. McF. Auld, K. H. Ehlers, M. A. Engle, Stavros S. Niarchos Professor of Pediatric Cardiology, R. A. Good, M. W. Hilgartner, J. Kochen, A. R. Levin, F. Lifshitz, W. W. McCrory, D. R. Miller, M. L. Murphy, S. F. Redo (surgery), T. Shapiro (psychiatry), M. Silverberg, C. T. C. Tan, R. Wapnir (biochemistry)

#### **Professor of Clinical Pediatrics**

P. G. Steinherz

### Clinical Professors of Pediatrics

L. I. Ehrlich, J. L. German, R. J. Haggerty, L. Salk, A. L. Scherzer

## **Adjunct Professor of Pediatrics**

S. Ulick

#### **Associate Professors of Pediatrics**

P. W. Brill (radiology), F. Daum, R. G. Harper, L. Helson, A. N. Krauss, L. S. Levine, W. N. Lim, R. J. O'Reilly, G. Rosen, E. M. Smithwick, N. W. Stenberg, S. Wachtel (immunology), P. Winchester (radiology)

## **Associate Professors of Clinical Pediatrics**

Z. E. Currimbhoy, J. G. Davis, F. Ghavimi, L. Katkin, R. I. Lopez, P. G. Steinherz

## **Clinical Associate Professors of Pediatrics**

F. H. Allen, Jr., B. S. Ashe, R. R. Bass, M. Boris, M. C. Buchanan, B. S. Caterinicchio, L. Charash, A. P. De Mayo, B. L. Glemson, D. K. Goldberg, R. M. Greenwald, M. T. Grossi, A. C. Hoffman, M. H. Jacobs, L. B. Lowe, Jr., I. H. Mauss, V. C. Mitty, K. Neumann, R. F. Notterman, M. Orange, H. deC. Peterson (neurology), V. Pomeranz, I. Rappaport, L. Rosenzweig, M. S. Rosh, W. T. Seed, M. Shibuya, D. I. Smith, G. E. Solomon, S. S. Zipser

## **Adjunct Associate Professor of Pediatrics**

H. Koenig

## **Assistant Professors of Pediatrics**

H. Aiges, J. C. Allen (neurology), T. B. Boland (psychology), A. E. Brown, M. Chandra, M. M. Di Die, P. Fort, W. W. Frayer, J. Friedman, R. J. Garutti, P. J. Giardina, R. W. Grady (pharmacology), A. Grassi, H. Huebner (psychiatry), R. M. Kaplan, N. Kapoor, N. Kardon, P. C. Klass (genetics), A. A. Klein, E. F. LaGamma, U. Lavy, M. McVicar, A. J. Markenson, A. Marks, J. H. Mathews, P. A. Meyers, S. Oberfield, J. E. O'Loughlin, M. Olson, S. Pang, B. E. Peterson, M. J. Reitman, S. Schechner, E. T. Schubert (biochemistry), M. Sherman (psychiatry), C. G. Sia, M. Sorell, L. J. Steinherz, S. Teichberg, T. A. Vandersall

## Clinical Assistant Professors of Pediatrics

C. Abitbol, B. Altura, P. Axel, O. E. Billo, R. M. Brilliant, J. L. Brown, W. R. Brown, Jr., W. T. Carpenter, Jr., J. N. De Hoff, J. H. Dobken, J. G. Easton, G. T. Edis, J. E. Fenner, Z. Fischbarg, D. B. Gareen, M. Gilbert, J. Goldstein, L. T. Goslee, A. Greenberg, M. Harwin, P. Horowitz, S. Isaacson, P. R. Joseph, S. Kaplan, B. Kritchman, J. Kutch, C. Lafer, M. Levy, R. H. Lieberman, E. McCarthy, S. S. Marder, F. N. Medici, A. J. Mistretta, A. P. Nicosia, S. D. Olicker, D. M. Pietrucha, O. E. Pitkin, L. Pollack, R. H. Reiman, H. L. Sachs, J. Shein, M. A. Shinefield, D. R. Skog, M. Small, J. Soloway, G. M. Spielman, J. Steckelman, R. Stein, M. Y. Tsai, J. P. Viscarti, R. Waldbaum, B. X. Weinstein, H. I. Wolfe

## Assistant Professor of Clinical Pediatrics

S. Korn

## **Adjunct Assistant Professors of Pediatrics**

M. Bestak, D. M. Namerow

## Visiting Assistant Professor of Pediatrics

H. Chang

#### Instructors in Pediatrics

L. T. Cahill, R. E. Caprio, A. C. Giardina, C. Kierney, P. Landau, C. H. Miller (genetics), G. Silverberg (genetics)

#### **Clinical Instructors in Pediatrics**

S. Alam, P. M. Baker, N. Berkowitz, H. E. Bradley, M. K. Chiu, G. Cohen, S. B. Cruz, M. Elice, E. F. Gould, A. L. Haber, M. S. Heitler, A. C. Holtzman, P. Inguagiato, H. Isenberg, T. Javaid, A. Joson, R. L. Kandell, M. Khadari, M. Kokkini, A. Lacoius-Petruccelli, S. LaSala, R. D. McLaughlin, G. Matthew, M. Ross, C. Sekaran H. Silver, B. S. Slater, M. A. Stevens, E. B. Visconti, S. Weindorf, I. Zackson, M. Zadik, D. Zigelman, H. Zirin

#### Research Associates in Pediatrics

S. Baker, M. Cornesco, B. Granich, M. Land, G. S. Ross

## Clinical Associates in Pediatrics

B. L. Allen, L. Avram, H. J. Birenbaum, C. Bryer, G. R. Budnick, T.-M. Chang, R. Cooper, B. Dash, M. H. Dinner, J. Dugal, L. Duffy, F. L. Ferrentino, M. P. Fitzgerald, S. L. Guild, M. T. Horan, M. Jennis, M. S. Katzenstein, B. A. Laboard, B. Lefkowitz, A. Levine, E. McDivitt, J. L. McManamy, H. Miller, A. R. Ostow, S. Piazza, S. Pillai, B. Por, M. Quilop, R. Raju, L. Salzman, G. Schonfeld, R. E. Schwartz, P. Scimeca, B. A. Sheppard, M. S. Snyder, J. Triegal, P. Velt, S. Weiss, A. L. Weiss-Harrison, M. Welles, P. C. White, G. M. Youra, V. M. Zayas

#### Fellows in Pediatrics

G. Alperstein, F.-J. Baska, M. M. Berant, J. Brochstein, J. B. Bussell, K. W. Chan, B. Doraiswamyi, E. S. Eisenberg, L. E. Friedman, A. Gewirtz, E. F. Grabowski, F. Grieg, K. Haines, C. H. Hancock, M. K. Jhaveri, B. Kohn, S. J. Korn, A. Kovatch, U. Kuhnle, D. J. Levy, M. Lewin, K. Lieberman, L. Linday, F. Lorenzen, S. Miller, J. S. Najafi, R. Noto, K. Patel, N. A. Pawlowski, D. Potaznick, R. Rapaport, L. Reisman, J. Schneider, R. V. Selden, R. L. Stavis, E. Stoner, C. Suarez, M. B. Verma

#### Lecturer in Pediatrics

Y. Khakoo

## **Required Clerkship**

#### Third Year

The major undergraduate teaching effort of the Department of Pediatrics occurs in the third year. In a period of six weeks, a required program provides a core of pediatrics, as an overview of the subject is presented. The year is divided into eight clerkships. During the pediatric clerkship, the student is assigned either to The New York Hospital, the North Shore University Hospital, or the Lenox Hill Hospital Pediatric Service. During that time, students are assigned patients during an inpatient experience and also spend approximately half of their time in an ambulatory setting dealing with the care of the outpatient pediatric population. Throughout the rotation, the students also rotate through the pediatric emergency room and learn to deal with pediatric crises. Both general pediatric problems and those of interest to the subspecialties are encountered when the student is on the inpatient as well as during the outpatient rotation. During their assignments in pediatrics, they spend time dealing with the management of the neonate in the Intensive Care Unit. During this third-year experience, the student acts as a clinical clerk. Each admission is assigned to a student who does a history and physical. In the Outpatient Department, the students invariably meet the family as the first contact physician and present the cases to the attending physician. The students are responsible for a history, physical examination, and a formulation for a differential diagnosis. The plan for the patient is developed by the student and after presentation to the senior resident and attending physician, decisions are made as to appropriate care and disposition of the patient. Students are expected to follow their patients closely during the admission as well as during the outpatient rotation and write pertinent progress notes. A number of formal teaching seminars are scheduled highlighting various aspects of general pediatrics as well as its subspecialties. In addition, the student participates in daily attending rounds and case discussions. The regularly scheduled grand rounds and professorial rounds for the Department of Pediatrics are part of the curriculum for the third-year student. The students are assigned to a tutor in groups of four and are responsible for formal presentations to this tutor. The tutors are members of the full-time staff or the attending staff of the department.

## **Elective Options**

#### First Year

Elective courses are listed in the Catalog of Electives.

#### Second Year

Elective courses are listed in the Catalog of Electives.

## **Fourth Year**

The department offers a variety of clinical pediatric electives encompassing general and subspecialty clinic outpatient activities at The New York Hospital,

and combined inpatient and outpatient activities at The New York Hospital, Hospital for Special Surgery, Memorial Hospital, and North Shore University Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis. Elective courses are listed in the Catalog of Electives.

## Pharmacology

## **Professors of Pharmacology**

W. F. Riker, Jr., Revlon Pharmaceutical Professor of Pharmacology and Toxicology, chairman; W. Y. Chan, T. Cooper, R. W. Houde (medicine), C. Inturrisi, A. Kappas (medicine), R. Levi, M. Okamoto, M. M. Reidenberg, A. Van Poznak (anesthesiology)

## **Adjunct Professors of Pharmacology**

J. J. Burns, E. Grunberg

## **Associate Professors of Pharmacology**

K. E. Foley (neurology), H. Kutt (neurology), A. B. Rifkind

#### Clinical Associate Professors of Pharmacology

J. E. Franklin, C. A. Shamoian

#### **Adjunct Associate Professor of Pharmacology**

B. A. Berkowitz

## **Assistant Professors of Pharmacology**

T. Baker, D. E. Drayer, R. W. Grady (pediatrics), D. J. Hinman, B. Jones, R. F. Kaiko, G. Pasternak (neurology), J. Romankiewicz (pharmacy), H. Szeto

## **Adjunct Assistant Professors of Pharmacology**

K. E. Anderson, D. M. Benjamin, A. Blume, R. Lahita, A. Sastre

## Instructors in Pharmacology

G. Allan, P. Brink-Morris

#### Research Associates in Pharmacology

A. Chenouda, B. Lorenzo, S. Rao

## Fellows in Pharmacology

L. Linday, J. Powell, A. Roby

## Lecturer in Pharmacology

H. S. Carlin

## **Required Course**

#### Second Year

Basic Course Lectures, demonstrations, conferences, and clinical sessions. A major aim is to teach how selectivity of drug action is determined by pharmacologic principles. Emphasis is placed on the application of pharmacologic principles to the understanding and evaluation of drug actions. In turn, the student is provided with a scientific basis for a rational approach to drug therapy. Prototype drugs considered systematically serve to illustrate the pharmacologic characteristics of the important drug classes.

## **Elective Options**

#### Second and Fourth Years

In both the second- and fourth-year elective periods. opportunities are available to pursue supervised laboratory, course work and clinical studies in neuropharmacology, cardiovascular pharmacology, endocrine pharmacology, renal pharmacology, clinical pharmacology, drug dependency, analgesic pharmacology, drug metabolism, and cancer chemotherapy. A course in molecular pharmacology is offered in the third trimester in alternate years (see Catalog of Electives).

## Physiology and Biophysics

#### **Professors of Physiology and Biophysics**

E. E. Windhager, Maxwell M. Upson Professor of Physiology and Biophysics, chairman; B. Grafstein, R. L. Greif, E. Heinz, T. Maack

## Clinical Professor of Physiology and Biophysics

W. A. Briscoe

## Associate Professors of Physiology and **Biophysics**

O. Andersen, C. Fell, D. Gardner

## Clinical Associate Professors of Physiology and **Biophysics**

A. R. Fuchs (reproductive biology), T. K. C. King (medicine), A. N. Krauss (pediatrics)

## Adjunct Associate Professor of Physiology and **Biophysics**

R. G. Abramson

## Assistant Professors of Physiology and Biophysics

T. J. Colatsky, G. Frindt, C. O. Lee, I. McQuarrie, L. G. Palmer

## Assistant Professor of Clinical Physiology and **Biophysics**

J. E. Franklin (medicine)

## Adjunct Assistant Professor of Physiology and **Biophysics**

W. A. Kachadorian

## Visiting Assistant Professor of Physiology and **Biophysics**

D.-Y. Uhm

## Instructor in Physiology and Biochemistry

A. M. Weinstein

## Senior Research Associate in Physiology and **Biochemistry**

C. Liebow

#### Research Associate in Physiology and Biophysics

N. Lanners

## Postdoctoral Associates in Physiology and **Biophysics**

M. Lorenzen, H. Yip

## Research Fellows in Physiology and Biophysics

E. Barnett, J. Swanson, R. White

## Required Courses

## First Year

Second term. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood circulation, respiration, and gastrointestinal function.

Third term. Laboratory work on all phases of physiology and biophysics, including applications of radioisotope methods to the study of body function. Conferences are devoted largely to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and the kidney. Laboratory exercises one full day each week.

## **Elective Options**

A seminar course in topics in biophysics and one in fluid and electrolyte balance are offered to selected students during their second-year elective time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and fourth-year elective periods, and for members of any class during summer vacation periods, will be arranged on consultation with members of the department.

Instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy and biochemistry. The second term is devoted to lectures and conferences. The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and the means by which the functions of the various organ systems are integrated.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

## Psychiatry

## **Professors of Psychiatry**

R. Michels, Barklie McKee Henry Professor of Psychiatry, chairman; A. M. Cooper, W. A. Frosch, S. L. Gilman (history), I. D. Glick, L. E. Hinkle, Jr. (medicine), J. C. B. Holland, H. Hunt (psychology), O. Kernberg, R. N. Kohl, D. J. Reis (neurology), T. Shapiro, G. P. Smith (behavioral science), J. A. Talbott

## **Professors of Clinical Psychiatry**

S. Asch, A. C. Carr (psychology), A. H. Esman, S. L. Feder, S. Gaylin, A. H. Samiy (medicine), M. Viederman

## Clinical Professors of Psychiatry

E. Carlson, H. E. Daniells, J. F. Masterson, Jr., J. M. Quen, C. J. Sager, L. Salk (psychology), R. Schafer (psychology)

#### **Adjunct Professors of Psychiatry**

N. Dain (history), J. T. English, W. Kass (psychology), S. Rettig (psychology), H. D. Saltzstein (psychology), W. N. Schoenfeld (psychology)

#### Visiting Professor of Psychiatry

R. L. Shapiro

## **Associate Professors of Psychiatry**

M. D. Clayson (psychology), J. L. Curtis, J. G. Gibbs, Jr., K. A. Halmi, M. E. Hertzig, P. F. Kernberg, M. H. Sacks, F. Schwartz (psychology), J. A. Sechzer (psychology), D. N. Stern, P. E. Stokes, T. A. Vandersall

#### **Associate Professors of Clinical Psychiatry**

S. F. Bauer, H. Bolocan, J. F. Clarkin (psychology),

A. J. Frances, A. B. Lewis, Jr., J. R. McCartney, M. R. Mattson, J. Schomer, M. A. Selzer, C. A. Shamoian, S. P. Stein, P. G. Wilson

## Clinical Associate Professors of Psychiatry

J. M. Astrachan, H. H. Barten, J. E. Baxter, H. R. Blank, J. W. Brown, E. H. Church, E. G. Dabbs, H. Fensterheim (psychology), B. Fisher (psychology), L. Freidman, R. Glass, S. Goldensohn, R. S. Grayson, S. A. Grolnick, I. B. Harrison, L. J. Hatterer, Y. A. Haveliawala, T. F. Henley, P. T. Janulis, F. D. Kane, S. E. Kapel, H. S. Kaplan, M. D. Kerr, A. Kiev, B. Landis (psychology), L. G. Laufer, R. F. Lax (psychology), E. Y. Liang, E. L. Lipton, L. Loeb, R. C. Mastrovito, W. Meyers, Y. Nir, E. R. Ranzenhofer, R. A. Ravich, M.-L. Schoelly, J. H. Spencer, Jr., T. G. Stauffer, L. R. Straub, J. D. Sullivan, J. S. Tamerin, A. D. Weiner, C. Winkelstein

## Adjunct Associate Professors of Psychiatry

S. Bogoch, A. I. Cohen (psychology), D. I. Cohen (biostatistics), F. F. Flach, E. H. Kaplan, H. H. Krauss (psychology), A. A. McLean, W. Sencer, R. K. Westheimer (psychology)

## Visiting Clinical Associate Professor of Psychiatry

B. L. Serwer (psychology)

## **Assistant Professors of Psychology**

G. S. Alexopoulas, B. L. Ballard, T. B. Boland (psychology), S. Bram (psychology), W. Eckerd, B. Farber, E. H. Feuer, R. J. Frances, R. C. Friedman, M. M. Gilmore, R. K. Goodman (social work), S. R. Greenberg, R. A. Gross, N. S. Hakusa (social work), D. Harlam (social work), S. Holzman, H. F. Huebner, H. D. Kibel, R. Klein, J. H. Kocsis, H. Koenigsberg, K. W. Lieberman (biochemistry), J. H. Liebowitz, A. W. Loranger (psychology), E. Loutsch, A. Malter, J. J. Mann, M. J. Massie, A. Mobarek, S. G. Mortati, B. S. Myers, H. Nasr, J. E. Nininger, J. M. Oldham, R. C. Palmer, S. Perry III, C. R. Pfeffer, L. H. Rockland, A. Rothstein (psychology), C. R. S. Scherzer (psychology), E. E. Seelye, M. Sherman, J. J. Stine, A. J. Strohmayer (psychology), R. Suh, S. Tutnauer, J. R. Tweedy, A. S. Weiner (psychology), W. Weiss

## **Clinical Assistant Professors of Psychiatry**

G. A. Anderson, M. S. Aronoff, R. Ascher, R. D. Baker, G. G. Ball (psychology), M. Beldoch (psychology), J. L. Berg, R. J. Berlin, M. B. Blitz, J. Blum (psychology), L. M. Breitman (psychology), G. Brezenoff (psychology), L. M. Brody, P. M. Bromberg (psychology), J. Bronner-Huszar, R. D. Bruun, B. Buchsbaum (psychology), J. B. Bukberg, J. J. Cavanagh, C. J. Clark, J. C. Cohler (psychology), S. Constantinou, H. M. Cooper, J. Crow, L. B. De Alvarado, A. K. Delgado, C. Diaz-Matos, M. V. Di Gangi, T. L. Doyle, Jr., S. C. Draghi, S. Dunkell, A. Dupuis, S. R. Edelson, E. Einbinder, A. Eisen, M. S. Eisenberg, R. B. Fath (medicine), D. D. Feinberg, S. Feinstein, R. Fishman (psychology), M. F. Fleetwood, R. Foraste, M. Fredland, M. P. Frogel, V. Fromberg, R. I. Ganeles, E. H. Gerchick, A. B. Gistrack,

H. I. Glazer (psychology), A. A. Goldman, J. E. Gorney (psychology), J. G. Gorzynski, S. Grolnick, S. Grossman, S. Gruber, J. E. Harris, J. A. Haycox, D. N. Hertz, M. Hill, R. K. Hill, R. Hirsch, A. Issacharoff, J. W. Johnson, A. I. Kaplan, N. L. Kaplan, M. G. Karmason, N. P. Karush, J. Katz, H. A. Kim, R. G. Kopff, Jr., M. S. Kroop, N. Lebowitz, M. S. Lederberg, R. E. Lee, H. J. Lefkowits, P. A. Levi, D. Y. Levine, E. Levy, B. A. Liberman, D. Lieberman, S. Lituchy, A. S. Maerov, R. B. Millman, L. Moss, D. B. Nagel, A. D. Nahas, J. Nahmias. L. M. Najarian, W. Nathan, E. Nersessian, A. Newman, H. Nunberg, J. D. O'Brien, B. E. O'Connell, R. A. O'Connell, A. K. Offit, S. J. Orloff, E. Ortoff (psychology), W. Overholser, H. Owens, J. M. Perman, V. R. Piskacek, A. Radomisli, M. Radomisli (psychology), S. Reich (psychology), M. M. Rick (psychology), J. B. Rohrlich, M. G. Rothenberg (psychology), M. Rubinstein, G. H. Rusk, S. Saltzstein (psychology), P. J. Schlachet (psychology), J. E. Schultz, S. W. Seides, D. A. Shapiro, M. Spital, I. Sternschein, N. Straker, R. Suchinsky, J. Terry, S. G. Traube, K. F. Tucker, H. J. Urbach, S. Waldron, Jr., M. J. Weich, W. M. Weisner, J. H. Weiss (psychology), D. Weitzner, E. Wilson, Jr., M. C. Winestine (psychology), M. H. Witkin (psychology), M. Zimmerman (psychology)

## **Adjunct Assistant Professors of Psychiatry**

A. A. Anderson, E. Becker, L. Benjamin (psychology), R. E. Breslow, A. R. Broden, I. Chiarandini, H. Davidoff-Hirsch, L. Diamond, W. N. Davis (psychology), Z. E. Dziewanowska, S. Eisenman, S. Feder, A. Kross-Frankel, A. N. Gabriel, R. L. Gold, W. H. Goodman, L. E. Grolnick, S. Grossman, E. Halpert, M. G. Hart, H. D. Kachalsky, I. Labourdette, A. B. Landolt, R. S. Liebert, J. C. Mayer, I. Mohacsy, H. H. Moorheard, G. Nachumi, E. S. Ninninger, S. S. Pazner, A. P. Perlstein, E. L. Rabiner, D. B. Robbins, W. Rosenthal, C. Schmais, A. M. Schwartz, R. M. Simon, B. L. Singer, D. E. Sobel, S. Trutt, G. M. Warner, N. Weiss

#### Visiting Assistant Professor of Psychiatry

K. R. S. Scherzer (psychology)

## Instructors in Psychiatry

R. C. Abrams, D. J. Adams, R. W. Austrian (psychology), P. Brown, W. Burten, W. M. Harrison, S. W. Hurt (psychology), P. Hymowitz (psychology), P. Ingber, R. Kaiser, B. Kalayam, T. P. Kalman, R. D. Kaplan, J. F. Karp, H. M. Klac, L. B. La Farge, B. Lasley (psychology), Z. Lazar (psychology), K. A. Lepp, A. Levi (psychology), J. Levy, P. Luber, J. C. Luke, B. B. McConnell, K. MacKain (communications), E. Mendelsohn (psychology), M. Miyamoto, D. T. Penman (psychology), G. S. Ross (psychology), L. M. Russakoff, M. K. Shear, E. Sodaro, Jr., A. Sondheimer, J. E. Sperber, M. A. Spiegel, N. S. Talon, W. B. Van Vort, B. Vollhardt, D. H. Weber, V. W. Yandow, R. C. Young

### Instructors in Clinical Psychiatry

E. Auchincloss, S. Auchincloss, A. Balas, J. Benjamin, J. Boronow, R. D. Brand, S. Brandt, R. Brescia,

R. Charach, S. B. Cutler, L. F. Ford, R. L. Fort, K. J. Gilmore, D. A. Goldfarb, R. Gordon, A. J. Guttman, D. Hammond, N. Hartman, S. R. Karasu, C. Kaufman, E. H. Kisch, M. Levin, N. Lewis, O. Lewis, D. L. Mednick, L. Prusnofsky, S. Russell, D. H. Sawyer, S. Sinha, L. Vogel

## Clinical Instructors in Psychiatry

H. K. Abromowicz, A. R. Abright, G. H. Albert, V. Alcena, A. U. Beltramini, G. Berenson (psychology), G. Botvin (psychology), N. Brockner, R. B. Brower, D. F. Burdman, A. S. Butkiewicz, T. A. Butler, J. Chapin, R. O. Cohen (psychology), R. P. Cohen, M. W. Crosby (psychology), R. DePaula, C. B. Diamond, R. J. Doherty (dentistry), J. Dunietz, C. Ehnis (psychology), K. Falk, B. L. Flye (psychology), A. W. Forrest (ophthalmology), A. Frosch (psychology), D. Ganeles, S. Golub, S. L. Gordon (otorhinolaryngology), R. B. Granet, G. Greenberg (psychology), P. Gusmorino, S. Harris, A. M. Hilmi (medicine), J. T. Howard, Jr. (obstetrics and gynecology), G. D. Igel, G. Javaid, M. Jordan, D. M. Kaminsky, R. J. Kaplan, S. Kaplan, S. B. Kardon, E. Katz, G. A. Keating, K. S. Kirstein, S. Kramer, J. R. Lachenmeyer (psychology), J. Lanoil, M. M.-H. Lee (anesthesiology), M. Levine, G. L. Levitt, K. J. Lichtman, M. W. Livingston (anesthesiology). A. Looker, V. Lozzi, R. Marantz, J. Maze, T. Meehan, B. Meisel, J. L. Moodie, C. J. Morosini, D. A. Moses, T. W. Murphy (anesthesiology), S. Nevins (otorhinolaryngology), A. Newman, L. D. Orvieto (dentistry), L. M. Parker, E. L. Parsons, J. T. Patten, M. Perelman (psychology), M. M. Peskin, E. R. Peyser, S. Raw (social work), E. A. Raymond (surgery), C. A. Reiner (psychology), J. M. Ross, J. M. Ross (psychology), E. B. Rowntree, A. F. Russo, B. J. Saul, J. W. Schein, A. H. Schore, M. Schwab, S. Severino, Z. Skolnick, L. Sobel, Y. Sokal, A. Stempler, L. Tallal, M. H. Tamaroff (psychology), J. Tolchin, T. Van Allen, D. Vander Heide, G. H. Vintas, M. Wainston, G. Wasserman (psychology), H. Weinberg, J. Weiss (psychology)

## Research Associates in Psychiatry

R. Barnett (psychology), R. N. DeBiase, M. Farrell (psychology), G. Heidrich, J. Weiss

## Fellows in Psychiatry

J. S. Antrobus (psychology), K. Barish (psychology), J. K. Belsky (psychology), W. Bernhard (psychology), J. Bloomgarden (psychology), R. Bobry (education), M. Bodgandoff (psychology), B. Brooks (psychology). M. Carsky-Kennedy (psychology), J. Clayton (psychology), J. Cohen (psychology), D. Joseph-Eger (psychology), S. K. Erlij (psychology), J. Gibbons (psychology), A. Greenberg (psychology), J. M. Gregory (psychology), L. T. Gries (psychology), D. Heidcorn (psychology), P. Ippolito (psychology), A. M. Jacobson (social work), A. B. Kane (social work), S. Korn (psychology), N. Krasa (psychology), J. L. Ladner (psychology), D. R. Lavin (education), J. Lovett (psychology), F. Luckom-Nurnberg (psychology), D. Luck (psychology), R. McCormick (psychology), K. H. Magrath (psychology), R. Moscowitz, R. Naso (psychology), P. Noel (psychology), E. Osborn (psychology), L. Osterweil (psychology), D. Perlick (psychology), D. Piazza (psychology), N. Rogers (social work), D. Rothschild (psychology), R. Salwen (psychology), H. Sands (social work), L. Sass (psychology), M. Schlenoff (social work), M. Schwartz (psychology), R. G. Sherman (social work), M. Silk (social work), R. Tobias (psychology), M. Tonkin (psychology), P. B. Topol (psychology), S. Tross (psychology), L. Tucker (psychology), J. G. Wallhauser (nursing), T. Widiger (psychology), J. P. Zimler (psychology)

## Research Fellows in Psychiatry

R. A. Hollander, E. Triana, L. Matin

## Research Assistants in Psychiatry

L. Brown, L. Levinson, C. B. Mermelstein, S. Spieker

## **Teaching Associates in Psychiatry**

E. Hirsch, A. Rosenman

## Lecturers in Psychiatry

K. Beckson (English), W. Christ (social work), R. Corn (social work), P. F. Drexler (social work), S. Fine (therapeutic activities), E. Goldstein (social work), L. Greenberg (social work), E. Heffner (social work), M. A. Hurley (nursing), H. Justman (social work), H. Lubin (social work), K. Larson (nursing), M. Levitt (social work), A. Novick (social work), A. Pappi (social work), D. A. Piegrome (therapeutic activities), E. T. Rosen (social work), J. Rosenbloom (social work), W. H. Tarplin (social work), F. D. Thurston (social work), D. E. Weinberg (social work)

## **Required Courses**

## First Year, First Trimester

Understanding Human Behavior This course reviews different models used to understand human behavior. Each week a one-hour lecture-demonstration discusses a conceptual model: psychodynamic, behavioral, neurobiological, developmental, sociocultural, et cetera. Following the lecture, small groups of students meet with two preceptors, discuss the lecture and reading material, and visit a medical ward where a patient is interviewed. The clinical data from the interview is organized by using the conceptual model discussed that week.

#### First Year, Third Trimester

**Human Sexuality** Six two-hour lecture-demonstrations discuss the anatomy, physiology, and psychology of human sexual functioning. Homosexuality, sexual dysfunction, and assessment of sexual functioning in the clinical interview are reviewed, with videotapes and movies to supplement the lecture material.

**Understanding Clinical Behavior** Six two-hour lecture-demonstrations discuss the phenomenology of

the data acquired in a clinical interview so that by the end of the course each student will be able to write a mental status after watching a videotaped interview. The components of the mental status discussedinclude sensorium, orientation, memory, affect, mood, thinking, coping strategies, defense mechanisms, and the quality of the doctor-patient interaction.

#### Second Year

Psychopathology The major psychiatric disorders are discussed, emphasizing clinical features, etiology, diagnosis, and treatment. After each lecture, groups of seven students meet with two faculty members on the wards of Payne Whitney Clinic to discuss the lecture topic and to interview patients. Students are helped to achieve an understanding of mental illness and to develop their observational, diagnostic, and interview skills.

#### Third Year

Clinical Psychiatry Clerkship Students are assigned for six weeks to special teaching units either at the Payne Whitney Clinic or at the Westchester Division of The New York Hospital. Clerks are given the opportunity to assume major responsibility for the evaluation and treatment of selected inpatients under the supervision of full-time faculty and senior residents. Students also work with the families of inpatients and participate in all ward activities. Outpatient experiences with adults and children are also provided. Seminar series, tutorials, readings and videotapes of typical psychiatric syndromes supplement the direct clinical experiences.

## **Elective Options**

#### First and Second Years

Electives are available in many areas of psychiatry, including research, patient evaluation and treatment, family studies, group dynamics, death and dying, psychobiology, psychiatric principles of general and special medical care, and psychoanalysis. In selected instances, a student may treat a psychiatric patient, with supervision, for one to four years. Some stipends are available for summer study. A full listing is available in the Catalog of Electives.

Summer fellowships. A wide variety of NIMH-supported summer fellowships in research are available. They include participation in ongoing faculty research as well as special projects specifically designed for medical students that can be completed in a ten-week period. Projects have ranged from the study of neurophysiology of exploratory behavior in rats to studies of the families of dialysis patients and of patients who do not follow medical regimens. Fellowships are available in inpatient and outpatient settings in many areas of the medical center. Details are available at the office of the Director of Training. Special programs are available.

## **Fourth Year**

Electives and subinternships in inpatient and outpatient psychiatry-both adult and child-offer extensive opportunities to learn diagnosis and treatment of psychiatric patients by assuming direct responsibility, under supervision, for patient care. Electives are also available in other aspects of psychiatry: research, liaison, social and community psychiatry, long-term psychotherapy, etc. A special effort has been made to provide relevant clinical psychiatric electives in pediatrics, surgery, obstetrics and gynecology, oncology, and internal medicine for students who do not plan a career in psychiatry. Elective sites include Payne Whitney Clinic, Westchester Division, Memorial Hospital, North Shore University Hospital, as well as the many sites of liaison activity on nonpsychiatric services within The New York Hospital. Details are available at the office of the Director of Training.

## Public Health

#### Professors of Public Health

G. G. Reader, Livingston Farrand Professor of Public Health, chairman; M. H. Alderman, F. Daniels, Jr. (dermatology), R. L. Engle, Jr., M. E. W. Goss (sociology), H. S. Ruchlin (economics), D. Schottenfeld

#### Clinical Professors of Public Health

E. J. Cassell, E. G. McCarthy, Jr., V. Miké (biostatistics), R. B. Millman

#### **Adjunct Professors of Public Health**

B. J. Flehinger (biostatistics), P. J. Imperato, W. R. Lynn (health systems analysis), A. L. Scherzer

## Visiting Professor of Public Health

P. D. Marsden

#### **Associate Professors of Public Health**

L. M. Drusin, T. C. Jones

## Clinical Associate Professors of Public Health

C. A. Berntsen, Jr., S. A. L. Howe, F. T. Kirkham, Jr., D. G. Miller, A. Ullmann (social work)

## **Adjunct Associate Professors of Public Health**

M. D. Hyman, G. Palevsky (engineering)

#### **Assistant Professors of Public Health**

M. E. Charlson, J. F. Haas

## Clinical Assistant Professors of Public Health

G. Bondi, R. L. Braham, E. T. Khuri, M. E. Makover, C. E. Stevens

## Adjunct Assistant Professors of Public Health

R. A. Berman, W. Loery

#### Research Associates in Public Health

G. Botvin, R. S. Brody, T. K. Davis, A. Eng, M. L. Finkel, C. M. Hamill, S. Madhaven, L. Melcher, J. M. J. Quan, M. E. Warshauer

#### Staff Associates in Public Health

S. S. Mills, M. J. Weisel

## Teaching Associates in Public Health

L. Glass, M. Hickerson, A. Scheidt, B. Topf-Olstein

#### Lecturers in Public Health

R. L. Biblo, J. Seed

Teaching in the Department of Public Health focuses on problems of disease, disease control, and health behavior in human groups and communities. Society. rather than the individual, is the "patient." Major teaching aims of the department include increasing the student's understanding of the spread and control of disease in groups of people, of public health problems and potential solutions in industrialized societies, and of the significant environmental hazards to health that people have faced. To a considerable extent, teaching involves study of existing and emerging disease problems and the ways they are shaped by the multiple interrelations of heredity, culture, social relationships, health care, and the physical and biological environment. Methods of study and analysis used in epidemiology and biostatistics are emphasized. Because its concern is with the health of people in the aggregate, the department also has the responsibility for maintaining continuing examination of the effectiveness of various systems of health care delivery.

## Required Courses

## **First Year**

Social Determinants of Health and Disease This course consists of two hours each Wednesday afternoon during the second trimester. It orients the student to the societal context in which illness occurs and the role of the physician and other health professionals in coping with disease problems. Lectures and small group seminars. Coordinator: Dr. Millman. Second trimester, Wednesdays, 2-4 p.m.

Health Care Systems This course consists of one lecture hour each Tuesday during the third trimester. The course provides an introductory analysis of existing systems of health care in the United States and abroad, including examination of available health manpower, the orientation of medical practice and its evaluation, facilities for inpatient and outpatient care in relation to community and national needs. methods of funding health care, the role of politics in health care planning, and proposals for modification of current systems. Dr. Reader, Dr. Goss. Third trimester, Tuesdays, 12-1 p.m.

#### Second Year

Introduction to Epidemiology During the second trimester, students learn about the epidemiologic method that is concerned with the distribution and causal determinants of diseases in man. By determining the attributes of high-risk groups, the epidemiologic method contributes to the primary prevention and earlier detection of diseases. The initial lectures review the important indices of disease frequency, design of retrospective (case history) and prospective (cohort) studies, and the derivation of relative and attributable risk. These fundamentals are then illustrated by reviewing selected communicable and chronic degenerative diseases that are a major source of mortality and disability in our society. Dr. Schottenfeld. Second trimester, Thursdays, 9-10 a.m.

Introduction to Biostatistics This course consists of a series of ten one-hour lectures aimed at giving the student a brief introduction to the basic concepts of probability and classical statistics, and the major statistical techniques generally encountered in the medical literature. Methods for collecting and summarizing clinical data are discussed, with emphasis on the design of controlled therapeutic trials. Students have the opportunity to learn how to solve statistical problems using a computer terminal. An exemption test is available for anyone with previous training in statistics. Dr. Miké. Second trimester. Tuesdays, 2-3 p.m.

Parasitology The principal emphasis in this course is on disease caused by the larger parasites that are particularly prevalent in so-called economically underdeveloped areas. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens out to include macroscopic parasites. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for the study of diseases in manclinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given consideration and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures. Dr. Jones, assisted by Dr. Marsden. Each Tuesday and Thursday at the beginning of the third trimester. The lecture or demonstration is presented from 2-3 p.m.; laboratory exercises take place from 3-5 p.m.

### Third Year

Public Health and Community Medicine This third-year course in public health consists of at least seven morning field trips and six afternoon seminar sessions during a two-week period. The exercises are devoted to field experience and literature review, and discussion of major topics in public health as they relate to a metropolitan area. The teaching is conducted with groups of fifteen students and an instructor. Dr. Drusin.

## **Elective Options**

Health Economics The delivery of health care is examined as an economic activity. Economic theory provides the basis for studying the health industry and national health insurance. Topics considered include the characteristics of health and medical services that distinguish the health industry; the implications of these distinctive characteristics for the competitive market system as a mechanism for delivering health services to the consumer; the manpower crisis; rising costs; and forms of payment to hospitals and physicians including Medicare and prepaid insurance. The course includes elective readings and assignments. Second year, hours to be arranged. Dr. McCarthy.

Biostatistics I: Introduction to Statistical Reasoning It is the aim of this course to help participants gain some insight into the theory underlying a probabilistic approach to the treatment of observational or experimental data and to acquaint them with the most basic techniques of statistical analysis. (Any first- or second-year medical student completing this course will be exempted from Introduction to Biostatistics.) Prerequisite: elementary algebra. Two one-hour lectures each week; first trimester. Dr. Miké and staff.

**Biostatistics II: Methods of Statistical Science** Application of concepts introduced in Biostatistics to the fields of experimental design, curve fitting, and analysis of count data. Prerequisite: Biostatistics I or equivalent. Two one-hour lectures each week; second trimester. Dr. Miké and staff.

Evaluation of Quality of Medical Care In this seminar, current approaches to evaluating the quality of medical care are examined, as are studies dealing with individual and organizational factors that affect quality of care, such as physician characteristics, type of practice, and hospital and clinic settings. Problems involved in monitoring medical-care quality in different contexts such as neighborhood health centers also are considered, and specific methods in use are illustrated. Readings are assigned and original studies may be undertaken. First trimester, second year. One one-hour seminar each week, at hours to be arranged. Dr. Goss.

Problems of Health Care Delivery in New York City In this seminar, various problems that interfere with delivery of health service in New York City are examined as an illustration of generic difficulties of health care delivery in metropolitan areas. Guest speakers from city agencies are invited to report and participate in the discussions. Readings are assigned. First trimester, first or second year. One one-hour seminar each week, at hours to be arranged. A maximum of twenty students can be accommodated. Dr. Reader.

Medical Information and Medical Decision Making The aim of this one-trimester course is to familiarize the medical student with: (1) definition and types of

medical information; (2) capture of medical information including the value of the personal interview; (3) storage of medical information, including the patient's record in its various forms: (4) retrieval of medical information; (5) concepts of disease; (6) principles of medical decision making-diagnosis, treatment, and prognosis; and (7) automated aids to medical information handling and decision making. One one-hour seminar each week and another hour each week for laboratory experience, including work with decision-aids systems under development, at hours to be arranged. Open to students in any of the first three years. Special arrangements can be made for students in the fourth year. There are no medical course prerequisites. A maximum of six students can be accommodated. Readings are assigned. Dr. Engle.

Application of Epidemiologic Methods to Problem Solving in Clinical and Community Medicine elective will parallel each lecture in the basic course. Introduction to Epidemiology. The epidemiologic approach to questions of disease causation, prevention, screening, treatment, and medical-care organization is developed using examples drawn from the literature. Controversies over clinically relevant issues are considered by examining appropriate observational and experimental studies with special attention to their design and the nature of inferences drawn from them. This series of exercises provides the student with insight into the design of clinical studies and in the use of various epidemiologic investigative strategies. Offered in the second trimester. Open to second-year students. Unlimited enrollment. Tuesday, 3 p.m. Dr. Schottenfeld and Dr. Haas.

Perspectives on Drug and Alcohol Abuse A series of eight two-hour seminars that consider selected drug abuse topics. Each student is expected to prepare a presentation on some aspect of the subject that will serve as the focus for the individual seminars. Direct contact with research and treatment programs is provided. Background readings are suggested. This elective for first-year students is by arrangement. Dr. Millman.

Epidemiology at the Center for Disease Control, Atlanta, Georgia An epidemiology elective in the Epidemiology Program of the Center for Disease Control is available for selected fourth-year medical students. During the two-module elective, students are introduced to both the principles and practices of epidemiology through participation in the day-to-day operation of a national disease surveillance system, and by actively assisting in epidemiological investigations of acute viral, bacterial, or parasitic diseases, or in studies in other Epidemiology Program areas such as family planning evaluating, leukemia, congenital malformations, and nutrition. Insofar as possible, the student is allowed to choose the program area to which he wishes to be assigned. Under the general supervision of a career staff physician, the student, in addition to assisting in epidemic investigations, will work with Epidemic Intelligence Service (EIS) officers in all phases of program activities, including processing of epidemiologic data, preparation of surveillance reports, and participation in staff seminars. Travel and

living expenses related to field investigations are defrayed by the Epidemiology Program, but regular living expenses while in Atlanta (which will account for more than half of the elective period), plus basic transportation costs between the current home medical school and Atlanta, must be borne by the student. Offered all year; duration, two modules. Prerequisites: biostatistics, epidemiology, third-year Public Health. Number of students per year: maximum of 2; full-time. Sponsor: Dr. Drusin.

Community Medicine and Public Health: New York City Department of Health This elective is under the direction of Ms. Lenore Deutscher, M.P.A., New York City Department of Health. Utilizing the resources of the New York City Department of Health and its affiliates (Health and Hospital Corporation, Office of the Chief Medical Examiner, District Health Services, Environmental Health Services, Comprehensive Health Planning Agency, etc.) the Health Research Training Program places students on ongoing and ad hoc research projects under the supervision of public health professionals. Those projects are selected that demonstrate the principles of epidemiologic, biostatistical, and other research methods while furthering specific goals in community medicine and public health. They offer practical experience in health programs planning, administration, and evaluation. The training program also makes placements in university medical center clinics and research divisions and in private agencies with a health advocacy role. Offered all year; duration, one module. Prerequisites: biostatistics, epidemiology, third-year Public Health. Number of students per module: maximum of 2; full-time. Sponsors: Dr. Reader and Dr. Drusin.

Communication and the Use of Language in Medicine This course will be offered to first-year students during the third trimester. The rationale of the course is that language is a basic tool in medicine: as anatomy is fundamental to understanding the body. language is fundamental to understanding the patient. Using recordings of actual doctor-patient conversations in office and hospital settings, the course lectures and demonstrations deal with the sense data of language, such as pause, pitch, speech rate, words and syntax; how patients use symbols to talk about the body; and how the personal and cultural factors and the situational context are read by the physician. This course is excellent preparation for the second-year course (offered the third trimester in 1980), which will focus on interviewing, history taking, explanation, reassurance, truth-telling, the use of the telephone, and so forth. The course forms the basis for the most effective use of language in diagnosis and treatment. Offered in the third trimester. Open to first-year students. Unlimited enrollment. Dr. Cassell.

Public Health Pediatrics Preceptorship The Sunset Park Family Health Center of the Lutheran Medical Center (Brooklyn, N.Y.) offers extensive clinical experience in family-centered ambulatory pediatrics in an inner-city neighborhood. Students are also expected to participate in related community activities. Offered all year; duration, one module. Prerequisite: completion of third year. Number of students per module: flexible; full-time. Sponsor: Dr. Howe.

Bedside Approach to the Etiology of Cancer In a cooperative program with the Memorial Sloan-Kettering Cancer Center and Cornell University Medical College, students are asked to participate with clinical investigators in using the bedside setting to generate new etiologic hypotheses for specific cancer sites. Alternatively, students may participate in ongoing epidemiologic research projects in which they will be encouraged to assume responsibility for a discrete facet of such investigation. Offered all year; duration, one or more modules. Prerequisites: interview with sponsor. Number of students per module: maximum of 2; full-time or part-time. Sponsors: Dr. Schottenfeld and Dr. Haas.

## Radiology

## **Professors of Radiology**

J. P. Whalen, chairman; D. V. Becker, F. C. H. Chu, R. H. Freiberger, B. S. Hilaris, J. H. Kim, L. Krook, J. S. Loughlin, D. G. Potts, T. Sos, H. L. Stein, R. C. Watson

## **Professor of Clinical Radiology**

S. J. Vacirca

## Clinical Professors of Radiology

M. Mishkin, G. Potter

#### Visiting Clinical Professor of Radiology

D. Wilner

### **Associate Professors of Radiology**

R. S. Benua, P. W. Brill, M. Deck, E. E. Deschner, A. B. Goldman, A. Govoni, J. R. Hurley, R. A. Hyman, J. G. Jacobstein, E. Kazam, J. B. Naidich, L. Z. Nisce, N. Poker, L. Rothenberg, P. H. Winchester

## **Associate Professors of Clinical Radiology**

J. Bosworth, J. G. Holt, M. Schneider, H. S. Teixidor

#### Clinical Associate Professors of Radiology

F. Cummins, L. Kalisher, C. W. Merten, L. M. Rothman, J. Smith, G. Stassa, J. Zizmor

## **Adjunct Associate Professors of Radiology**

S. Balter, P. Cahill, E. Nunez

## **Assistant Professors of Radiology**

G. Abbott, M. Batala, L. Blau, J. Caravelli, M. Edelman, J. H. Edwards, B. Ghelman, H. Goldberg, M. A. Goldman, M. Graham, R. T. Heelan, S. Hopfan, M. Jacobs, H. G. Kantor, C. D. Kelley, G. Krol, B. C. P. Lee, J. Levenbrown, B. McCormick, D. Miller, R. Mohan, L. Neistadt, R. Packert, H. Pavlov, J. Putrino, R. Rosenberg, W. A. Rubinstein, Z. Saary, S. Sarkar, R. Schneider, L. D. Simpson, K. Sniderman

## **Assistant Professors of Clinical Radiology**

L. L. Anderson, J. Cavallari, K. Pentlow, G. D. Ragazzoni, J. St. Germain

## Clinical Assistant Professors of Radiology

A. Butkiewicz, A. Dembner, A. Haraway, Jr., J. Hirschy, C. Huntington, R. Leaming, A. Olson, S. Packer, S. Perlmutter, H. Selby, R. Snyder

## Instructors in Radiology

R. Bugbee, S. Gjivoje, D. Nori, H. Poussin-Rosillo, B. Shank, D. Stavis, B. Vikram, M. L. Wallace, A. Wecksell

## Clinical Instructors in Radiology

M. Barandes, P. Fischella, R. Katz, K. Schwartz

## Senior Research Associate in Radiology

D. Gomez

## Fellows in Radiology

A. Anand, Y. H. Auh, C. Beinart, S. Bhimani, I. Engel, C. Hershan, B. Koblick, S. Kuchta, S. Lehrman, R. Mackey, L. Manco, M. Mintz, G. Novick, M. S. Rapelyea, A. Rosenthal, L. Sachs, W. Shaw, S. Singer, S. Tamura, J. Tehranzadeh

## **Facilities**

Five floors of the L Building comprise the main facilities of the Radiology Department. A large diagnostic section is located in the Doctor Connie Guion Outpatient Building, adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, the Urology Clinic, and the Payne Whitney Clinic. New diagnostic radiology research facilities are located on the sixth and seventh floors of the William Hale Harkness Research Building

The Department of Medical Physics at Memorial Hospital provides teaching, service, and research activities in the areas of diagnostic radiology, radiation therapy, and nuclear medicine. The staff and facilities of the Department of Medical Physics are available to interested students.

The teaching of radiology continues through all four academic years. It includes lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of diseases at the regular conferences of the clinical departments, and a variety of elective courses.

#### First Year

**Electives.** An elective is offered in diagnostic radiology in collaboration with the Department of Anatomy. Carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with

the dissection sessions in gross anatomy. The use of radiographs enhances the student's understanding of anatomical details and provides the student with a clearer perspective of important anatomical relationshins

An elective course in radiographic anatomy in diagnosis, limited to seven students, is offered in the third trimester. Observation and seminar study of radiographs and their use as an anatomical basis for special procedures will be considered. Conventional radiography and fluoroscopy will be reviewed for further understanding of anatomy.

#### Second Year

In conjunction with the physical diagnosis of the thorax and abdomen, eight hours are devoted to the use of radiology as a tool in teaching physical diagnosis and emphasizing X rays as an extension of the physical examination. Both normal anatomy and selected cases of pathologic alteration are reviewed.

#### Third Year

Third-year instruction in radiology consists of a twenty-eight hour lecture course in diagnostic roentgenology. The aim is to relate the student's knowledge of anatomy and pathology, gained in the first two years, to the findings seen on roentgenograms in various disease entities. The essential diagnostic points of the most frequently encountered lesions are illustrated by material from the department's teaching files. The first third of the course covers the thorax, including the lungs, heart, and mediastinum. The second third of the course covers the abdomen, including the solid viscera and the gastrointestinal tract. The final third of the course covers urological, neurological, and bone radiology. The student is encouraged to gauge his or her progress by self-evaluation sessions after each third.

## Fourth Year

An elective is offered to groups of up to twenty students each module, consisting of a series of informal talks, seminars, and multiple case presentations in an attempt to apply the information of previous courses. Emphasis is placed on giving the student an appreciation of the use of radiology in a clinical setting. A large film and lantern slide museum of cases, carefully selected for their teaching value, has been prepared. This is constantly upgraded.

An elective in the clinical application of radioactive isotopes consists of a period of participation in and observation of the activities of the Division of Nuclear Medicine. The students will have the opportunity to obtain basic orientation in procedures involved in the quantitation of radionuclides by direct participation in laboratory exercises. These will be carried out in the framework of a clinical laboratory primarily concerned with the diagnosis of a variety of disorders by the application of the techniques of radioactive nuclides.

The student will have an opportunity to observe the various procedures (including organ scanning and a number of physiologic studies) and to evaluate some of the patients receiving these studies and to assist in the interpretation of the procedures. The student will participate in the daily report session in which scans and procedures are reviewed. In addition, if the student wishes, he or she may originate research activities or participate directly in some of the ongoing research activities of the laboratory, ranging from the development and standardization of new procedures to instrument modification and calibration. Also, for the interested student, there will be an opportunity to work with some of the computer-related procedures in the laboratory under the direction of Dr. Patrick Cahill. This course lasts for five weeks and is limited to two students.

## Surgery

## **Professors of Surgery**

G. T. Shires, Atterbury Stimson Professor of Surgery. chairman: E. J. Beattie, Jr., A. H. Burstein (applied biomechanics), T. Cooper, P. W. Curreri, Johnson and Johnson Professor of Surgery, J. J. DeCosse, P. Dineen, P. R. Exelby, J. Fortner, J. H. Galicich, Jr., W. T. Gay, Jr. (cardiothoracic), E. I. Goldsmith, D. Goulian, Jr. (plastic surgery), W. R. Grafe, V. E. Marshall (urology), N Martini, R. H. Patterson, Jr. (neurosurgery), M. O. Perry (vascular), S. F. Redo (pediatric), A. L. Rubin (biochemistry), K. H. Stenzel (biochemistry), E. W. Strong, E. D. Vaughan, Jr., James J. Colt Professor of Urology in Surgery, W. F. Whitmore, Jr. (urology), P. D. Wilson, Jr. (orthopedics)

## **Professors of Clinical Surgery**

W. G. Cahan, A. E. Inglis (orthopedics), B. Jacobs (orthopedics), D. B. Levine (orthopedics), C. S. Ranawat

## **Clinical Professors of Surgery**

W. D. Arnold (orthopedics), W. A. Barnes, S. J. Behrman (dentistry), J. N. Insall (orthopedics), R. W. Lavengood, Jr. (urology), J. H. McGovern (urology), E. M. Muecke, L. R. Straub (orthopedics), B. Thobjarnarson, J. C. Whitsell II

## **Adjunct Professor of Surgery**

C. C. Edwards

## **Associate Professors of Surgery**

A. R. Beil, Jr., D. L. Bartel (applied biomechanics). P. C. Canizaro, W. E. Enker, R. A. R. Frazer (neurosurgery), H. Gilder (biochemistry), P. M. Guida, J. P. Horovitz, D. W. Kinne, L. Korngold (microbiologyorthopedics), J. M. Lane (orthopedics), J. W. Mellors (biochemistry-orthopedics), A. J. Okinaka, R. S. Riggio (biochemistry), J. P. Shah, P. A. Skudder, W. T. Stubenbord, V. A. Subramanian (cardiothoracic), A. D. Turnbull

## **Associate Professors of Clinical Surgery**

H. Ashikari, M. S. Bains, W. H. O. Bohne (orthopedics), J. S. Cheigh, D. G. C. Clark, G. N. Cornell, A. F. Cortese, J. H. Dietz, Jr., B. R. Heinzen, W. H. Knapper, J. P. Lyden (orthopedics), D. T. Mininberg (urology), K. P. Morrissey, L. Root (orthopedics), E. A. Salvati (orthopedics), M. H. Shiu, J. F. Sullivan

## **Clinical Associate Professors of Surgery**

R. J. Booher, B. E. Bromberg, R. D. Campbell, Jr. (orthopedics), R. Carras, R. L. Clarke, J. W. Coleman, Jr. (urology), J. H. Doherty (orthopedics), J. A. Epstein (neurosurgery), H. W. Farr, A. A. Fracchia, R. H. Guthrie (plastic surgery), G. R. Holswade, M. J. Kaplitt, J. G. Keunelian (urology), F. R. Kunken, B. Landis (psychology), L. J. Lester, C. J. McPeak, H. Mannix, Jr., R. C. Marcove, J. A. Nicholas (orthopedics), W. F. Nickel, Jr., J. J. Putnam (dentistry), S. H. G. Quan, G. F. Robbins, S. H Rothfeld (urology), K. M. Schneider, J. W. Smith (plastic surgery), N. Spier, R. M. Stark (orthopedics), H. R. Tollefsen, J. A. Urban, R. S. Waldbaum, G. E. Wantz

## **Assistant Professors of Surgery**

J. C. Alexander (thoracic), S. P. Arnoczky (orthopedics), J. E. Baxter (psychiatry), F. Betts (biophysics), N. C. Blumenthal, D. L. Bordan, J. Chami, J. M. Davis, K. Field (biochemistry), F. W. Gamache (neurosurgery), A. C. Geiss, M. H. Hall, D. N. Herndon, H. W. Herr (urology), W. P. Homan, E. Hoover (cardiothoracic), H. Illner, M. H. Lavyne, B. R. Leslie (biochemistry), A. Luterman, J. C. McCabe (cardiothoracic), J. P. McCarron, Jr. (urology), P. F. McCormack, I. G. McCuarrie (neurosurgery), B. G. Miscall, J. Parrillo (cardiothoracic), J. F. Raaf, S. D. Saal (biochemistry), M. F. Silane, P. C. Sogani, D. H. Spiro, N. Sundaresan, M. Suthanthiran (biochemistry), L. Tapia (biochemistry), A. J. Tortolani, F. Vosburgh (orthopedics), M. Yarborough

#### **Assistant Professors of Clinical Surgery**

J. M. Aronian, T. A. Chaglassian (plastic surgery), D. M. Kovachev, (plastic surgery), T. P. Sculco (orthopedics), R. F. Warren (orthopedics), J. J. Williams (urology)

#### **Clinical Assistant Professors of Surgery**

S. E. Asnis, L. A. Behrman (dentistry), C. M. Beiles, L. Bowden, M. Brice II (urology), J. Byrne (urology), S. E. Carney (dentistry), B. Catlin, S. C. E. Clayton, R. M. Cole (dentistry), W. T. Curry, T. M. Darrigan (dentistry), J. D. Davis (dentistry), A. De Palo, C. R. Dunbar, A. C. Elias (dentistry), G. W. Flint, J. A. Fracchia (urology), S. L. Frantz, M. E. Freund, G. M. Galvin (dentistry), A. E. Glendinning, L. A. Gordon, S. J. Hershorn, R. E. Hertz, B. Hoexter, J. T. Kauer, K. Keningsberg, S. M. Koteen (dentistry), J. M. Leavitt (dentistry), J. C. Lee (dentistry), L. R. Levin, J. S. Lewis, R. M. Linsky, T. P. McGovern, P. J. Marchisllo (orthopedics), C. J. Mauro, V. F. Marzulli, D. M. Mazor, N. I. Mendell (dentistry), H. Miller, S. Mishkin, A. S.

Misrick, O. S. Moore, P. O. Niceta (urology), E. Nowak, M. A. Paglia, J. Pamilla, E. R. Piccaro (dentistry), W. R. Pitts (urology), I. P. Prince (dentistry), L. E. Quitt (dentistry), J. M. Reckler (urology), R. E. Reber, C. B. Ripstein, C. E. Rogers, H. Rothenberg, J. E. Rowan (dentistry), K. Schmidt (dentistry), D. C. Silverstein, H. B. Simon (urology), D. S. Speer, I. A. S. Spira, H. Statman, V. J. Vagnini, K. P. Velis (orthopedics), H. W. Whiteley, Jr.

## **Adjunct Assistant Professors of Surgery**

W. C. Mitchell, J. C. Otis (orthopedics), P. A. Torzilli (orthopedics)

## **Adjunct Clinical Assistant Professor of Surgery**

R. R. Zelko (orthopedics)

## Instructors in Surgery

F. F. Attiyeh, H. Fillit (biochemistry), T. Fukubayashi (orthopedics), H. E. Kramer (orthopedics), K. P. Rothaus (plastic surgery)

## Clinical Instructors in Surgery

H. J. Abrams, M. W. Abrams, M. Arlen, M. J. Attkiss, S. Avnet (orthopedics), A. A. Bakst, H. T. Barbaris, F. T. Bergan, R. B. Berroya, G. C. Brown, M. I. Buchbinder, R. L. Cucin, R. E. Decker, S. L. Deckhoff, A. R. Deschamps, D. M. Dines, S. M. Erlanger, M. J. Errico, K. A. Falvo (orthopedics), J. Feinberg (plastic surgery), L. A. Fish (urology), P. M. Gallagher, J. P. Gaston, F. P. Gerold, A. H. Gold, R. E. Goldberger, J. W. Guido. J. L. Halpern (dentistry), A. H. Harris, A. J. Hauser (dentistry), M. E. Helbraun, G. Imber (plastic surgery), M. J. Kleiner (biochemistry), I. H. Krasna, S. B. Labow, C. W. Lee, M. Lemchen (dentistry), D. Levine (dentistry), S. G. Lynn, A. R. Mackenzie, L. J. Marino (dentistry), D. A. Mayer, T. Meshkati, G. W. Miner, J. S. Mitchell (dentistry), R. C. Moffatt, L. J. Mondschein, C. G. Moccio, H. J. Nahoum (dentistry), E. A. O'Neill, R. S. Pack (dentistry), M. W. Panio (orthopedics), H. S. Partridge, H. Pearl, E. P. Pickett, E. W. Powers (plastic surgery), T. D. Rizzo (orthopedics), A. D. Rosenthal, R. L. Salzer, Jr. (orthopedics), S. P. Saltzman (dentistry), G. Sanford (dentistry), N. H. Schulman, R. G. Schwager, R. A. Schonbrun (dentistry), W. N Scott (orthopedics), J Sherwood, B. D. Sklansky (plastic surgery), H. B. So, A. M. Stone, R. J. Strauss, M. K. Sutaria, A. P. Sutton, J. K. Swinburne, A. J. Trattler, S. J. Tunick (dentistry), D. Velcek, J. F. Waller (orthopedics), J. S. Waxler, A. B. White, A. J. Wise, J. J. Zito

#### Senior Clinical Associates in Surgery

R. J. Anderson, E. Arbit (neurosurgery), H. A. Bade (orthopedics), H. Beaton, S. Brem (neurosurgery), P. L. Cunningham, R. C. Ciardullo (plastic surgery), P. M. Cathcart (cardiothoracic), A. Danylevich (neurosurgery), K. M Chekovsky (orthopedics), P. A. Church (urology), R. S. Davidson (orthopedics), P. Dombroff (plastic surgery), S. A. Fried (orthopedics), J. F. Gallagher, G. M. Gartsman (orthopedics), V. P. Genovese (orthopedics), L. Gibson (dentistry), E. W.

Gundy (orthopedics), R. W. Hood (orthopedics), N. Kahanovitz (orthopedics), R. J. Kearns (orthopedics), M. I Levy (orthopedics), W. K. P. Li (orthopedics), R. R. McCormack (orthopedics), M. R. Madden, M. L. Marbey (cardiothoracic), J. F. Mendes (orthopedics), V. A. Parnell, J. P. Parnell (urology), S. Pilipshen, S. B. Pett (cardiothoracic), R. P. Robinson (orthopedics), G. Savatsky (orthopedics), J. R. Seebacher (orthopedics), P. E. Stelzer (cardiothoracic), S. A. Stuchin (orthopedics), B. N. Stulberg (orthopedics), T. L. Wickiewicz (orthopedics), B. Wolff, R. Yetman (plastic surgery)

## **Fellows in Surgery**

P. S. Barie, R. H. Barth (biochemistry), G. C. DeBoccardo (biochemistry), I. Dauber, W. B. Evans (biochemistry), S. W. McKean (biochemistry), E. Moore, S. Nagler, J. J. Novello (biochemistry), A. B. Peitzman, D. S. Robinson, N. Robinson, L. E. Rothstein, G. T. Shires III, J. Stack (biochemistry), P. A. Taufield (biochemistry), A. M. Weinstein (biochemistry)

## Clinical Associates in Surgery

W. W. Adams, Jr., A. C. Antonacci, R. E. Atkinson (orthopedics), R. L. Badillo, W. O. Bell (neurosurgery), R. M. Bochner (orthopedics), A. B. Bodenstab (orthopedics), G. A. Brody, G. S. Bromley, P. Chang, D. K. Cheung, W. T. Cline, H. S. Cody III, J. R. Cohen, D. A. Dethmers (orthopedics), J. E. Ebani, B. Eisenberg. A. Eisenkeit, J. F. Evans, T. Facelle, W. B. Farrar, L. B. Flawn (orthopedics), D. Fofung, W. M. Glover, J. P. Gold, I. D. Gowan (orthopedics), G. M. Graves, R. L. Greenberg (urology), P. H. Halebian, B. T. Harter, J. H. Healey (orthopedics), S. A. Hirshorn, J. P. Hoffman, L. Hoffman, R. Iovino (dentistry), A. R. Israel (urology), N. A. Johanson (orthopedics), J. K. Jones (orthopedics), S. R. Kay, G. K. Kelman, K. M. Kostroff, W. G. Kraybill, Jr., P. F. Lachiewicz, K. E. Leider, W. C. Mackey, P. V. McMahon (orthopedics), J. D. Mannion, B. W. Miedema, C. Militana, C. Mills (urology), P. R. Montefusco, T. Nordstrom, J. C. Owens, J. A. Petrek, A. M. Perez, P. Pezzello, M. G. Persico, A. J. Procaccino, P. M. Pober, C. L. Raggio, V. Rai, S. Randall, D. L. Rayfield, C. Reed, D. S. Rich (orthopedics), R. C. Richter, J. P. Rock, D. Rose, H. A. Rose (orthopedics), B. Saltzman, W. J. Schickler, R. Schultz, S. M. Schlossberg (urology), M. M. Sedwitz, B. J. Simon, D. J. Sisto (orthopedics), D. R. Smego, R. E. Sosa, K. D. Stahl, F. M. Thompson (orthopedics), R. M. Voorhies, H. Webb, D. N. Weingrad, B. Weintraub (plastic surgery), M. B. Weiss, J. Williams (plastic surgery), T. Witt

#### Staff Associate in Surgery

D. Manewaring

## Research Associate in Surgery

M. E. Todd

## **Required Courses**

#### First Year

In the second trimester, in the Interdisciplinary Course, there is one session on the management of acute emergency care.

## Second Year

Instruction begins in the third trimester of the second year. Sessions are provided in general surgical problems as part of the course in physical diagnosis. Instruction is also provided in orthopedic and urologic examination.

### Third Year

The curriculum for the third year provides a core program of clinical instruction in surgery to the students during a twelve-week period. This consolidates all surgical instruction, outside of initial teaching in physical diagnosis in the second year, and leaves the fourth year for elective studies.

The third-year class is divided into four sections. Each quarter provides approximately twelve weeks on the general surgery pavilions with a selection of rotations through the divisions of thoracic surgery, urology, plastic surgery, orthopedics, and the Memorial Sloan-Kettering Cancer Center. During this time, the student acts as clinical clerk and participates in day-to-day activities in patient care. The student gathers experience by taking complete histories and doing physical examinations. The student also evaluates laboratory determinations on assigned patients and has an opportunity to participate in the preoperative preparation. When the patient is operated on, the student may act as part of the operating team to see at first hand the pathological conditions for which the operation was undertaken. The student attends the rounds held by the residents and members of the senior staff

Each Wednesday, from 2 to 3 p.m., the chairman of the department has a conference with the student body during which various surgical problems are reviewed. Three days a week, on Mondays, Tuesdays, and Thursdays, from 2 to 4 p.m., seminars are held in which attending surgeons lecture on surgery and its subspecialties. This schedule provides a broad coverage of surgery in its entirety.

On Monday and Friday afternoons, ward rounds are held by surgeons accompanied by students. These rounds are oriented toward the particular patients and problems available on the floor each time. On Wednesday mornings there is a session in experimental surgery. The students are divided into groups and operations on animals (dogs) are performed under the direction of surgeons. Students alternate as anesthesiologists, surgeons, and assistants during the operations. These operations are performed under strict aseptic conditions and simulate conditions actually encountered in the operating room. The students are responsible for the care of the animal during the preoperative and postoperative periods, writing operative notes, and keeping a log for each operation that is

performed. On Tuesday afternoons, instruction is provided in ophthalmology and ear, nose, and throat diseases by the respective departments.

Grand rounds are held on Wednesday afternoons and each student's attendance is required. These rounds last for one hour or more. One specific surgical problem is discussed in depth by two residents and a faculty moderator. Experience in emergency surgical care is provided in the Emergency Room where the students are part of the emergency admitting team.

## **Elective Options**

## Fourth Year

In the fourth year, the Department of Surgery offers a variety of electives, including experiences in clinical fields as well as in research laboratories. These are fully outlined in the *Catalog of Electives*. It is at this time that the students have an opportunity to work in the Burn Center.

## Schedules 1980-81

## First Year: Core Curriculum

## First Trimester, Weeks 1-5

Hour	Monday	Tuesday	Wednesday	Thursday	Friday		
9–10		Biochemistry A-250	Biochemistry A-250	Biochemistry A-250	Microscopic Anatomy A-250		
10–11	Gross Anatomy	Microscopic	Gross Anatomy	Microscopic	Gross Anatomy		
11–12		Anatomy	777	Anatomy			
12–1	A-250	A-250	A-250	A-250	A-250		
1–2	Lunch	Lunch	Lunch	Lunch	Lunch		
2–3	Biochemistry A-250		Introductory Medicine				
3–4		Elective	A-950	Psychiatry	Biochemistry		
4–5	Elective		Elective	P-004	A-250, A-950		

## First Trimester, Weeks 6-11

Hour	Monday	Tuesday	esday Wednesday		Friday		
9–10		Biochemistry A-250	Biochemistry A-250	Biochemistry A-250			
10–11							
11–12	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Gross Anatomy		
12–1	A-250	A-250	A-250	A-250	A-250		
1–2	Lunch	Lunch	Lunch	Lunch	Lunch		
2–3	Biochemistry A-250		Introductory Medicine				
3–4		Elective	A-950	Psychiatry	Biochemistry		
4–5	Elective		Elective	P-004	A-250, A-950		

First Year

## Second Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday		
9–10	Biochemistry A-250	Physiology A-250	Biochemistry A-250	Biochemistry A-250	Physiology		
10–11	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	A-250		
11–12					Gross Anatomy A-250		
12–1	A-250	A-250	A-250	A-250	Elective		
1–2	Lunch	Lunch	Lunch Lunch		Lunch		
2–3	Physiology A-250		Public Health: Social Determinants				
3–4	Elective	Elective	of Health and Disease A-250	Gross Anatomy	Biochemistry		
4–5	Elective		Elective	A-250	A-250, A-950		

## Third Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday		
9–10	Physiology A-250	Nourcesiana	Dhusialasu		Neuroscience A-250		
10–11	Neuroscience A-250	Neuroscience	Physiology	Elective			
11–12	Interdisciplinary	A-250			Physiology		
12–1	A-250	Public Health: Health Care Systems A-250	A-250	Lunch	A-250		
1–2	Lunch	Lunch	Lunch	Psychiatry	Lunch		
2–3			Physiology	P-004	Elective		
3–4	Neuroscience	Elective	Laboratory		LICOTIVE		
4–5	A-250			Elective			

## First Trimester

Hour	Monday	Tuesday	Tuesday Wednesday		Friday		
9–10		Pharmacology A-950					
10–11	Pathology	Pathology	Pathology	Pharmacology	Pathology		
11–12		C-215					
12–1		CPC					
	C-215	B-011	C-215	A-950, C-215	C-215		
1–2	Lunch	Lunch	Lunch	1	Lunch		
2–3		Pharmacology A-250		Lunch			
3–4	Microbiology	Elective	Microbiology	Elective	Microbiology		
4–5	C-215		A-250		C-215		

## Second Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday		
9–10	Pharmacology A-950	Free		Public Health: Biostatistics A-950			
10-11		Pharmacology					
11–12	Pathology		Pathology	Pharmacology	Pathology		
11-12		A-950, C-215					
12-1		CPC	1				
	A-950, C-215	B-011	C-215	A-950, C-215	C-215		
1–2	Lunch	Lunch	Lunch	Lunch	Lunch		
2–3	Microbiology	Public Health: Epidemiology A-950					
3–4	s.sblology		Elective	Psychiatry	Microbiology		
	_	Elective					
4–5	C-215			P-004	C-215		

## **Second Year**

## Third Trimester, Weeks 1-4

	Medicine: Pathophysio C-215  asitology C-215  Physical Diagnosis
C-215 Para	asitology Physical Diagnosis
	A-950
ficine C-215	Neurology C-215
ch Lunc	ch Lunch
licine:	Medicine:
rology and Elect	Physical Diagnosis
A-950	A-950, A-
	dicine: urology and sical gnosis

## Third Trimester, Weeks 5-11

Monday	Tuesday	Wednesday	Thursday	Friday		
Medicine:	Weeks 5-8:	Medicine:		Medicine: Pathophysiology		
Pathophysiology C-215	C-215	Pathophysiology C-215	Pathophysiology C-215	C-215 Physical		
Physical Diagnosis A-950	Elective	Physical Diagnosis A-950		Diagnosis A-950		
	Pediatrics C-215		Pediatrics C-215	Neurology C-215		
Lunch	Lunch	Lunch	Lunch	Lunch		
Medicine:		Medicine:		Medicine:		
Neurology and Physical Diagnosis	Elective*	Physical Diagnosis	Elective	Neurology and Physical Diagnosis		
A-950		A-950		A-950, A-250		
	Medicine: Pathophysiology C-215  Physical Diagnosis A-950  Lunch  Medicine: Neurology and Physical	Medicine: Pathophysiology C-215  Physical Diagnosis A-950  Pediatrics C-215  Lunch  Medicine: Neurology and Physical Diagnosis  Redicine: Neurology and Physical Diagnosis  Elective*  Elective*	Medicine: Pathophysiology C-215  Physical Diagnosis A-950  Medicine: Pathophysiology C-215  Weeks 9-11: Elective Physical Diagnosis A-950  Pediatrics C-215  Lunch Lunch Lunch  Medicine: Neurology and Physical Diagnosis  Elective*  Medicine: Neurology and Physical Diagnosis  Medicine: Pathophysiology C-215  Physical Diagnosis A-950  Medicine: Neurology and Physical Diagnosis	Medicine: Pathophysiology C-215  Physical Diagnosis A-950  Medicine: Pathophysiology C-215  Weeks 9-11: Elective Physical Diagnosis A-950  Pediatrics C-215  Lunch Lunch Lunch  Medicine: Neurology and Physical Diagnosis  Algorithms  Medicine: Neurology and Physical Diagnosis Diagnosis  Elective*  Medicine: Neurology and Physical Diagnosis Diagnosis  Elective  Elective  Elective  Medicine: Neurology and Physical Diagnosis  Elective  Elective  Elective  Elective  Elective  Elective		

<sup>\*</sup> Students are required to participate in one three-hour Obstetrics and Gynecology lecture during this time. This lecture will be held in Room C-215. Assignments for specific days will be made in February.

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,	Period 1				Period 2				Period 3				Period 4				
1	- Sept. 29	- Oct. 13	T Oct. 27			-Jan. 5			- Mar. 2	- Mar. 30	Apr. 27		- May 23	- June 1		FJuly 13	-July 27
Rotation IA	Psychiatry	PH	Neurology	Psychiatry		Psych., cont.	PH	Neurology	Psychia	try	PH	Neurology		Psychia	try	PH	Neurology
Rotation IB	Neurology PH	P	sychiatry	Neurology		PH	Р	sychiatry	Neurology	РН	Ps	sychiatry		Neurology	PH	F	Psychiatry
Rotation IIA	Pediatrics		bstetrics Gynecology	Pediatrics		Pedi- atrics, cont.		stetrics and ynecology	Pediatri	cs		stetrics and necology		Pediatri	cs		stetrics and ynecology
Rotation IIB	Obstetrics and Gynecology	, Pe	ediatrics	Obstetrics and Gynecology	Recess	Ob Gyn. cont.	Р	ediatrics	Obstetrics Gynecol		Pe	ediatrics	Recess	Obstetrics Gynecold		Р	ediatrics
Rotation	Sui	gery		Surgery	Winter R		Su	rgery	Surger	y	S	Surgery	Spring P		Sur	gery	
Rotation IV	Med	dicine		Medicine			Me	edicine	Medicii	ne	N	ledicine			Med	dicine	

## **Fourth Year**

## **Elective Modules**

Module A	September 2-September 26
Module B	September 29-October 24
Module C	October 27-November 21
Module D	November 24-December 19
Module E	January 5-January 30



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Gerald F. Abbott, Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital. B.S. 1968, Northwestern University; M.D. 1971, Cornell University. (1977)

Henriette E. Abel, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1955, Vassar; M.D. 1959, Cornell University. (1960; 1969)

Robert R. Abel, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1952, Princeton University; M.D. 1956, Cornell University. (1957; 1967)

Carolyn Abitbol, Clinical Assistant Professor of Pediat-

- rics. B.S. 1967, Madison College; M.D. 1971, University of Virginia. (1977; 1979)
- Helen Kaufman Abramowicz, Clinical Instructor of Psychiatry, Clinical Affiliate, New York Hospital, A.B. 1964, Smith College; M.D. 1968, Albert Einstein College of Medicine. (1979)
- Henry J. Abrams, Clinical Instructor in Surgery. Junior Assistant Attending Surgeon (Urology), North Shore University Hospital, B.S. 1958, City College of New York; M.D. 1962, New York Medical College. (1973)
- Martin W. Abrams, Clinical Instructor in Surgery, Active Staff, North Shore University Hospital. B.Sc. 1948, Rutgers University; M.D. 1954, Chicago Medical School. (1975)
- Robert Abrams, Instructor of Psychiatry, Assistant Psychiatrist, New York Hospital. B.S. 1972, University of California at Berkeley; M.D. 1976, Mount Sinai School of Medicine. (1977; 1979)
- David Abramson, Clinical Associate Professor of Ophthalmology, B.A. 1965, Harvard University; M.D. 1969, Albert Einstein College of Medicine. (1979)
- Ruth G. Abramson, Adjunct Associate Professor of Physiology. A.B. 1955, University of Pennsylvania; M.D. 1959, State University of New York. (1980)
- Arthur R. Abright, Clinical Instructor of Psychiatry. Clinical Affiliate, New York Hospital, B.A. 1969, University of Texas; M.D. 1973, Southwestern Medical School. (1975; 1980)
- Donald J. Adams, Instructor of Psychiatry. B.A. 1967, Swarthmore College; M.D. 1971, State University of New York Downstate Medical Center. (1979)
- Joshua E. Adler, Instructor in Neurology. Clinical Fellow, New York Hospital, B.A. 1969, Yeshiva University; M.D., 1975, Ph.D. 1975, University of Pennsylvania. (1976; 1978)
- Seymour Advocate, Clinical Associate Professor of Medicine, Associate Attending Physician, New York Hospital; Adjunct Physician, Memorial Hospital. B.A. 1937, Brooklyn College; M.A. 1938, University of Illinois; M.D. 1950, Washington University. (1951;
- Howard J. Agatston, Clinical Assistant Professor of Ophthalmology. Associate Attending Ophthalmologist, North Shore University Hospital. B.S. 1933, New York University; M.D. 1937, New York University. (1977)
- Edward H. Ahrens, Adjunct Professor of Medicine. B.S. 1937, M.D. 1941, Harvard University. (1970: 1974)
- Harvey Aiges, Assistant Professor of Pediatrics. B.A. 1962, Brooklyn College; M.D. 1971, New York Medical College. (1980)
- Suroor Alam, Clinical Instructor in Pediatrics. Pediatrician to Outpatients, New York Hospital. B.Sc. 1963, M.B. and B.S. 1968, University of Karachi (Pakistan). (1974; 1977)
- Gary H. Albert, Clinical Instructor of Psychiatry. M.D. 1972, New York Medical College. (1979)
- Valiere Alcena, Clinical Instructor of Medicine in Psychiatry (Courtesy). Clinical Affiliate, Department of Psychiatry, New York Hospital. B.A. 1970, Queens College; M.D. 1973, Albert Einstein College of Medicine. (1978)
- Michael H. Alderman, Professor of Public Health; Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1958, Harvard University; M.D. 1962, Yale University. (1966;
- Louis M. Aledort, Adjunct Professor of Medicine. B.S.

- 1955, Queens College; M.D. 1959, Albert Einstein College of Medicine. (1979)
- John C. Alexander, Assistant Professor of Surgery. A.B. 1968 and M.D. 1972. Duke University. (1980)
- George S. Alexopoulos, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1970, National University of Athens (Greece). (1976; 1979)
- Fred H. Allen, Clinical Associate Professor of Pediatrics. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst College; M.D. 1938, Harvard University. (1963)
- Jeffrey C. Allen, Assistant Professor of Neurology in Pediatrics, Assistant Professor of Neurology, Assistant Attending Neurologist in Pediatrics, Assistant Attending Neurologist, New York Hospital. B.A. 1965, Oberlin College; M.D. 1969, Harvard University. (1976; 1978)
- Daniel R. Alonso, Associate Professor of Pathology. Associate Attending Pathologist, New York Hospital. M.D. 1962, University of Cuyo (Argentina). (1965; 1975)
- Maria Lita Alonso, Instructor in Pathology. Assistant Attending Pathologist, New York Hospital. M.D. 1968, University of Cordoba School of Medical Sciences, Cordoba (Argentina), (1979)
- Barry C. Altura, Clinical Assistant Professor of Pediatrics. Chief Resident, New York Hospital. B.A. 1972, Queens College; M.D. 1976, State University of New York Upstate Medical College. (1979)
- Olaf S. Andersen, Associate Professor of Physiology. Candidatus Medicinae 1971, University of Copenhagen (Denmark). (1973; 1977)
- Arthur A. Anderson, Adjunct Assistant Professor of Clinical Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1949, M.D. 1954, University of Washington. (1956: 1980)
- Arthur F. Anderson, Emeritus Clinical Professor of Pediatrics. Honorary Staff, New York Hospital. M.D. 1916, Tufts University. (1940; 1962)
- Gerald A. Anderson, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.S. 1959, University of Wyoming; M.D. 1963, Cornell University. (1965; 1970)
- Karl E. Anderson, Adjunct Associate Professor of Medicine; Adjunct Assistant Professor of Pharmacology. Assistant Attending Physician, New York Hospital. B.A. 1962 and M.D. 1965, Johns Hopkins University. (1967; 1980)
- Lowell L. Anderson, Assistant Professor of Clinical Radiology, Attending Roentgenologist, Diagnostic Radiology, Memorial Hospital. B.S. 1953, Whitworth College; Ph.D. 1958, University of Rochester. (1970; 1979)
- William A. Anderson, Clinical Associate Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.S. 1942, Tuskegee Institute; M.D. 1953, University of Michigan. (1958; 1973)
- Jerome Applebaum, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital, B.A. 1954, Hobart College; M.D. 1959, University of Rome (Italy). (1977)
- Georgette Aprile, Clinical Instructor in Medicine. Clinical Affiliate, New York Hospital. B.A. 1963, Queens College; M.D. 1974, New York Medical College. (1975; 1979)
- Lucien I. Arditi, Clinical Associate Professor of Medicine. Associate Attending Physician, New York

- Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. (1955; 1970)
- Francis P. Arena, Assistant Professor of Medicine. B.S. 1970, Fordham College; M.D. 1975, Cornell University. (1975; 1980)
- Myron Arlen, Clinical Instructor in Surgery. Assistant Attending Surgeon, Bone Service, Memorial Hospital. B.A. 1953, Brooklyn College; M.D. 1957, State University of New York. (1963; 1966)
- Zalmen A. Arlin, Assistant Professor of Medicine.
   Assistant Attending Physician, Memorial Hospital.
   B.S.C. 1968, M.D.C.M. 1970, McGill University (Canada). (1974; 1977)
- Donald Armstrong, Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. Attending Physician, Chief, Infectious Disease, Memorial Hospital. A.B. 1953, Lehigh University; M.D. 1957, Columbia University; (1959; 1976)
- Steven Paul Arnoczky, Assistant Professor of Comparative Orthopedics in Surgery, D.V.M. 1972, Ohio State University, (1979)
- William D. Arnold, Clinical Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate University; M.D. 1948, Cornell University. (1958; 1980)
- Dianne Aronian, Clinical Instructor in Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. B.S. 1962, Westminster College; M.D. 1972, Cornell University. (1973; 1977)
- John M. Aronian, Assistant Professor of Clinical Surgery. Assistant Attending Surgeon, New York Hospital. B.S. 1962, University of Pennsylvania; M.D. 1967, Hahnemann Medical College. (1968; 1980)
- Michael S. Aronoff, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1962, Haverford University; M.D. 1966, University of Pennsylvania. (1979)
- Eugene M. Aronow, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1954 and M.D. 1957, Northwestern University. (1972)
- Joseph F. Artusio, Professor of Anesthesiology (Chairman). Anesthesiologist in Chief, New York Hospital. B.S. 1939, St. Peter's College; M.D. 1943, Cornell University. (1946; 1967)
- Stuart S. Asch, Professor of Clinical Psychiatry. Attending Psychiatrist, New York Hospital. A.B. 1943, Columbia College; M.D. 1945, Columbia University. (1976; 1979)
- Robert S. Ascheim, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Cardiopulmonary Service, Memorial Hospital. B.A. 1958, Yale University; M.D. 1962, Tufts University. (1963; 1974)
- Robert Ascher, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1945, Columbia University; M.D. 1949, Long Island College of Medicine. (1977)
- Barbara S. Ashe, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1947, Wellesley College; M.D. 1951, New York University. (1953; 1976)
- Ronald A. Asherson, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. M.B. and Ch.B. 1957, University of Cape Town (South Africa). (1975)

- Stanley E. Asnis, Clinical Assistant Professor of Surgery. M.D. 1968, Washington University. (1969; 1979)
- John Mann Astrachan, Clinical Associate Professor of Obstetrics and Gynecology; Clinical Associate Professor of Psychiatry. Associate Attending Obstetrician and Gynecologist; Associate Attending Psychiatrist, New York Hospital. B.A. 1949, Alfred University; M.D. 1953, New York Medical College. (1971; 1977)
- Steven A. Atlas, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1968 and M.D. 1971, Johns Hopkins University. (1972; 1978)
- Fadi Attiyeh, Instructor in Surgery. Clinical Assistant Surgeon, Rectal and Colon Service, Memorial Hospital. B.Sc. 1965 and M.D. 1969, American University of Beirut (Lebanon). (1973; 1980)
- Michael J. Attkiss, Clinical Instructor in Surgery. A.B. 1960, Harvard University; M.D. 1964, Columbia University. (1974)
- Elizabeth Auchincloss, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1973, Yale University; M.D. 1977, Columbia University. (1978; 1980)
- Sarah Auchincloss, Instructor of Clinical Psychiatry.
  Assistant Psychiatrist, New York Hospital. B.A. 1971,
  Harvard University; M.D. 1976, Yale University.
  (1979; 1980)
- Peter A. McF. Auld, Professor of Pediatrics; Professor of Perinatal Medicine in Obstetrics and Gynecology. Attending Pediatrician, New York Hospital. B.A. 1948, University of Toronto; M.D.C.M. 1952, McGill University (Canada). (1962; 1974)
- Rochelle Wynne Austrian, Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1968, University of Pennsylvania; M.A. 1973 and Ph.D. 1976, New York University. (1971; 1976)
- Samuel Avnet, Clinical Instructor in Surgery. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1933, New York University; M.D. 1937, New York Medical College. (1956; 1961)
- Peter Axel, Clinical Assistant Professor of Pediatrics. B.A. 1957 and M.A. 1958, Hofstra University; M.D. 1962, Chicago Medical School. (1976)
- Rosemary F. Bachvarova, Associate Professor of Anatomy. A.B. 1961, Radcliffe College; Ph.D. 1966, Rockefeller University. (1970; 1980)
- Ralph A. Baer, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1955, Princeton University; M.D. 1959, Cornell University. (1960; 1972)
- Manjit Singh Bains, Associate Professor of Surgery. Associate Attending Surgeon, Thoracic Service, Memorial Hospital. M.B. and B.S. 1963, All-India Institute of Medical Sciences (India). (1970; 1980)
- Daiva R. Bajorunas, Assistant Professor of Medicine. Assistant Attending Physician, Endocrinology Service, Memorial Hospital. M.D. 1971, University of Michigan. (1975; 1980)
- Harriet Diane Baker, Assistant Professor of Neurobiology in Neurology. B.A. 1963, Wells College; M.S. 1967, University of Illinois; Ph.D. 1976, University of lowa. (1976; 1980)
- Paul M. Baker, Clinical Instructor in Pediatrics. Assis-

- tant Attending Pediatrician, New York Hospital. B.S. 1971, Davidson College; M.D. 1975, Cornell University. (1978)
- Ralph D. Baker, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.S. 1948. University of Akron: M.D. 1956. University of Paris. (1958; 1972)
- Thomas Baker, Assistant Professor of Pharmacology. B.A. 1968, Hunter College; M.S. 1971, Cornell University. (1968; 1976)
- Jens R. Bakke, Clinical Instructor in Medicine, Senior Assistant Attending Physician, North Shore University Hospital. B.A. 1949, Columbus College; M.D. 1953, New York Medical College. (1972)
- Alvin A. Bakst, Clinical Instructor in Surgery, B.A. 1941 and M.D. 1944, New York University. (1974)
- Anna Balas, Instructor of Clinical Psychiatry, Assistant Psychiatrist, New York Hospital. B.A. 1972, Brandeis University; M.D. 1976, Albert Einstein College of Medicine. (1979; 1980)
- Leslie L. Balazs, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. M.D. 1959, Dalhousie University (Canada). (1964; 1973)
- Robert J. Baliff, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1953, Davis and Elkins College; M.D. 1957, University of Rochester. (1958; 1979)
- George Balint, Clinical Instructor in Anesthesiology. M.D. 1951, Medical University (Hungary). (1976)
- Gordon G. Ball, Clinical Assistant Professor of Experimental Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1956, University of London (England); Ph.D. 1963, Stanford University. (1977)
- Bruce L. Ballard, Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.A. 1960, Yale University; M.D. 1964, Columbia University. (1976)
- Stephen Balter. Adjunct Associate Professor of Physics in Radiology. B.S. 1961, Polytechnic Institute of Brooklyn; M.S. 1963, Columbia University; Ph.D. 1971, Polytechnic Institute of Brooklyn. (1968; 1977)
- Martin Barandes, Clinical Instructor in Radiology, Clinical Affiliate in Radiology, New York Hospital. B.S. 1959 and M.D. 1963, Union University. (1966; 1971)
- Harry T. Barbaris, Clinical Instructor in Surgery, B.S. 1965, M.D. 1969, Georgetown University. (1970; 1976)
- Hugh R. K. Barber, Adjunct Professor of Clinical Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital; Attending Surgeon, Memorial Hospital. B.A. 1941 and M.D. 1944, Columbia University. (1954; 1979)
- Raymond G. Barile, Clinical Assistant Professor of Anesthesiology. Associate Attending Anesthesiologist, New York Hospital. B.A. 1953, Columbia University; M.D. 1957, Georgetown University. (1961;
- Lloyd T. Barnes, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, University of Pennsylvania. (1953; 1969)
- William A. Barnes, Clinical Professor of Surgery. Attending Surgeon, New York Hospital, B.A. 1933. City College of New York; M.D. 1937, Cornell University. (1938; 1967)

- Jeremiah A. Barondess. Professor of Clinical Medicine. Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins University. (1953; 1979)
- Donald L. Bartel, Associate Professor of Applied Biomechanics in Surgery (Orthopedics). B.A. 1961, M.S. 1963, University of Illinois; Ph.D. 1969, University of Iowa. (1978)
- Harvey H. Barten, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1955 and M.D. 1959, Harvard University. (1961; 1972)
- Norman Walter Barton, Instructor in Clinical Neurology. B.S. 1969, University of Toledo; Ph.D. 1974 and M.D. 1976, Pennsylvania State University. (1978;
- Naef K. Basile, Clinical Assistant Professor of Obstetrics and Gynecology. B.A. 1936, College Francais de la Ste. Famille (France): first M.D. 1936. Paris (France); second M.D. 1941, Montreal (Canada). (1940: 1979)
- Richard R. Bass, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital, A.B. 1946, Cornell University; M.D. 1949. New York Medical College. (1955; 1973)
- Edwin Pitcher Bassett, Associate Clinical Professor of Pathology. Attending Pathologist, North Shore University Hospital. M.D. 1951, University of Vermont. (1971: 1979)
- Mostafa Ali El Batata, Assistant Professor of Radiology. Associate Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. L.R.C.P. and M.R.C.S. 1968, University of London (England); L.M.S.S.A. 1966, South Wales School of Medicine; M.B. and B.Ch. 1952, Cairo University (Egypt). (1971; 1975)
- Charles H. Bauer, Emeritus Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. A.B. 1949, Columbia University: M.D. 1953, Harvard University. (1955; 1980)
- Stephen F. Bauer, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. 1951, University of Wisconsin; M.D. 1955, State University of New York. (1977; 1979)
- Leona Baumgartner, Emeritus Clinical Professor of Pediatrics; Emeritus Clinical Professor of Public Health. A.B. 1923 and M.A. 1925, University of Kansas; Ph.D. 1932 and M.D. 1934, Yale University. (1940: 1968)
- James E. Baxter, Assistant Professor of Psychiatry in Surgery; Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. M.D. 1951, Georgetown University. (1955; 1980)
- Alexander G. Bearn, Stanton Griffis Distinguished Medical Professor. Attending Physician, New York Hospital. M.B.B.S. 1946 and M.D. 1951, University of London (England); Docteur Honoris Causa 1974, Université Réné Descartes (France). (1966; 1977)
- Edward J. Beattie, Professor of Surgery. Chief Medical Officer, Memorial Hospital. Chairman of Department and Attending Surgeon, Chief of Thoracic Service, Memorial Hospital. B.A. 1939, Princeton University; M.D. 1943, Harvard University. (1965)
- Carl G. Becker, Professor of Pathology. Attending Pathologist, New York Hospital. B.S. 1957, Yale University; M.D. 1961, Cornell University. (1962; 1976)
- David V. Becker, Professor of Radiology; Professor of Medicine. Attending Physician, Attending Radiolo-

- gist, New York Hospital. B.A. 1943 and M.A. 1944, Columbia University; M.D. 1948, New York University. (1954; 1975)
- Eugene Becker, Adjunct Assistant Professor of Psychiatry, B.S. 1958, New York University; M.D. 1962, State University of New York Downstate Medical Center. (1980)
- E. Lovell Becker, Adjunct Professor of Medicine. A.B. 1944, Washington and Lee University; M.D. 1948, University of Cincinnati. (1957; 1978)
- J. Michael Bedford, Professor of Anatomy; Professor of Reproductive Biology in Obstetrics and Gynecology. B.A. 1955, M.A. and Vet. M.B. 1958, Cambridge University (England); Ph.D. 1965, University of London (England). (1972; 1973)
- Stuart L. Bednoff, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1957, Alfred University; M.D. 1961, State University of New York. (1971; 1980)
- Lawrence A. Behrman, Clinical Assistant Professor of Surgery (Dentistry). Associate Attending Dentist, New York Hospital. B.S. 1946 and D.D.S. 1946, University of Pittsburgh. (1977)
- Stanley J. Behrman, Clinical Professor of Surgery (Oral). Attending Oral Surgeon in Charge (Dentistry), New York Hospital. B.A. 1942, New York University; D.M.D. 1945, University of Pittsburgh. (1949; 1977)
- Arthur R. Beil, Associate Professor of Surgery. Director of the Division of Surgery, North Shore University Hospital. A.B. 1955, Brown University; M.D. 1959, Cornell University. (1960; 1971)
- Carl M. Beiles, Clinical Assistant Professor of Surgery. Senior Assistant Attending Surgeon, North Shore University Hospital. B.A. 1955 and M.D. 1959, Harvard University. (1960; 1975)
- Michael Beldoch, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1953, Adelphi University; M.A. 1960 and Ph.D. 1961, Columbia University. (1975)
- Joseph A. Belladonna, Clinical Instructor in Medicine. Adjunct Physician, Memorial Hospital. B.S. 1965, Fordham University; M.D. 1969, Cornell University. (1970: 1976)
- Antonio U. Beltramini, Clinical Instructor of Psychiatry. Clinical Associate, New York Hospital. M.D. 1974, Geneva University (Switzerland). (1978; 1980)
- Bry Benjamin, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1945, Yale University; M.D. 1947, Harvard University, (1954; 1964)
- David M. Benjamin, Adjunct Assistant Professor of Pharmacology. A.B. 1968, Boston University, M.S. 1970 and Ph.D. 1972, University of Vermont. (1976)
- Hermina Z. Benjamin, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. M.D. 1951, University of Bucharest (Rumania). (1969; 1978)
- John Benjamin, Instructor of Clinical Psychiatry. M.B. and B.S. 1969, Calicut Medical College of Kerala University (India). (1980)
- Lawrence Benjamin, Adjunct Assistant Professor of Psychology in Psychiatry. B.S. 1956, Queens College; Ph.D. 1964, New York University. (1980) Lennette Johnson Benjamin, Clinical Instructor of

- Medicine. B.S. 1962, University of Denver; M.D. 1970, Howard University College of Medicine. (1979)
- Richard S. Benua, Associate Professor of Medicine; Associate Professor of Radiology. Attending Physician, Chief of Nuclear Medicine Service, Memorial Hospital. B.S. 1943, Western Reserve University; M.D. 1946, Johns Hopkins University; M.S. 1952, University of Minnesota. (1956; 1970)
- Gerald Berenson, Clinical Instructor of Psychology in Psychiatry, B.S. 1952, City College of New York; Ph.D. 1959, Yeshiva University. (1979)
- Kalman J. Berenyi, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. M.D. 1952, Pazmany Peter University Medical School (Hungary). (1971; 1978)
- Magdalena R. Berenyi, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. M.D. 1952, Budapest University Medical School (Hungary). (1978)
- H. Richard Beresford, Associate Professor of Neurology. Associate Attending Neurologist, New York Hospital. Director, Department of Neurology, North Shore University Hospital. B.A. 1952, Yale University; J.D. 1955, Harvard University; M.D. 1963, University of Colorado. (1964; 1971)
- Judith L. Berg, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1947, Hunter College, M.D. 1957, Columbia University. (1976; 1979)
- Francis T. Bergan, Clinical Instructor in Surgery. Attending Surgeon (Dentistry), North Shore University Hospital. D.M.D. 1945, Tufts University. (1972)
- Alan S. Berkeley, Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1969, Yale University; M.D. 1973, New York Medical College. (1979)
- Barry A. Berkowitz, Adjunct Associate Professor of Pharmacology. B.S. 1964, Northeastern University; Ph.D. 1968, University of California. (1971; 1976)
- Norman Berkowitz, Clinical Instructor in Pediatrics. Clinical Affiliate, Department of Pediatrics, New York Hospital. A.B. 1963, Syracuse University; M.D. 1967, State University of New York. (1978)
- Mordecai Berkun, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. M.D. 1951, New York University. (1971; 1979)
- Irving Berlin, Clinical Assistant Professor of Anesthesiology. B.S. 1948, University of Denver; M.D. 1955, University of Lausanne (Switzerland). (1973)
- Robert J. Berlin, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1962, Brandeis University; M.D. 1966, State University of New York Downstate Medical Center. (1979)
- Richard A. Berman, Adjunct Assistant Professor of Public Health; Adjunct Assistant Professor of Public Affairs in Medicine. B.B.A. 1966, M.B.A. 1968 and M.H.A. 1968, University of Michigan. (1974; 1977)
- Carl A. Berntsen, Clinical Associate Professor of Medicine; Clinical Associate Professor of Public Health. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, University of California; M.D. 1945, Johns Hopkins University. (1948; 1973)

- Renato B. Berroya, Clinical Instructor in Surgery. Assistant Attending Surgeon, North Shore University Hospital. B.A. 1956, University of the Philippines; M.D. 1961, University of Santo Tomas (Philippines). (1975)
- Charles F. Besanceney, Instructor in Pathology. B.S. 1968, United States Military Academy; M.D. 1974, Cornell University. (1980)
- Marc Bestak, Adjunct Assistant Professor of Pediatrics, Clinical Affiliate in Pediatrics, New York Hospital. B.A. 1968, Queens College; M.D. 1972, State University of New York Upstate Medical Center, Syracuse. (1973; 1979)
- Foster Betts, Assistant Professor of Biophysics in Surgery (Orthopedics). B.S. 1954 and M.S. 1956, University of Connecticut; Ph.D. 1972, Stanford University. (1979)
- Harry Bienenstock, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. Assistant Attending Physician, Hospital for Special Surgery, A.B. 1953, Yeshiva University; M.D. 1957, Chicago Medical School. (1960; 1968)
- Otto E. Billo, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital, A.B. 1930, Williams College; M.D. 1935, Harvard University. (1948; 1954)
- Alan Binder, Clinical Instructor in Medicine. Assistant Attending Physician, Department of Medicine, North Shore University Hospital, B.S. 1969 and M.D. 1973. State University of New York. (1974; 1978)
- Robert T. Binford, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Dermatology Service, Memorial Hospital. B.A. 1951, Vanderbilt University; D.M.D. 1955 and M.S. 1959, University of Alabama; M.D. 1963, Cornell University. (1964: 1976)
- Stanley J. Birnbaum, Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens College; M.D. 1951, Cornell University. (1952; 1971)
- Ira Barrie Black, Professor of Neurology. Attending Neurologist, New York Hospital, A.B. 1961, Columbia University; M.D. 1965, Harvard University. (1971; 1979)
- Richard Howard Blanck, Clinical Assistant Professor of Neurology. B.S. 1969, Clarkson College; M.D. 1973, New Jersey College of Medicine and Dentistry. (1979)
- H. Robert Blank, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. 1936 and M.D. 1939, Temple University. (1975)
- John P. Blass, Professor of Medicine; Professor of Neurology. Attending Neurologist, New York Hospital. A.B. 1958, Harvard University; Ph.D. 1960, University of London (England); M.D. 1965, Columbia University. (1978)
- Lawrence Martin Blau, Assistant Professor of Physics in Radiology. Associate Scientist, New York Hospital. B.A. 1959, Princeton University; M.A. 1963 and Ph.D. 1965, Princeton University, (1970)
- Marvin B. Blitz, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, Harvard University; M.D. 1957, Union University. (1962; 1977)

- Berna J. R. Blom, Clinical Assistant Professor of Dermatology in Medicine, Clinical Affiliate. New York Hospital. Licensed Physician 1965 and Dermatologist 1969, University of Utrecht (The Netherlands). (1975; 1980)
- Stephen Bloomfield, Clinical Assistant Professor of Ophthalmology. Ophthalmologist to Outpatients, New York Hospital, B.A. 1962, Queens College: M.D. 1966, State University of New York. (1972: 1975)
- Peter A. Bluestone, Assistant Professor of Medicine. Attending Physician, North Shore University Hospital. A.B. 1962, Harvard University; M.D. 1966, New York University. (1973; 1975)
- June Blum, Clinical Assistant Professor of Psychology in Psychiatry. A.B. 1941, University of North Carolina; M.A. 1950, Columbia University; Ph.D. 1969, St. John's University. (1977; 1978)
- Arthur J. Blume, Adjunct Assistant Professor of Pharmacology, B.A. 1963, University of Rochester; M.S. 1966 and Ph.D. 1968, Syracuse University, (1979)
- Irving H. Blumenfeld, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1934, Long Island University; M.D. 1941, Chicago Medical School, (1973)
- Norman C. Blumenthal, Assistant Professor of Physical Chemistry in Surgery. B.S. 1961, Polytechnic Institute of New York; Ph.D. 1967, New York University. (1980)
- Richard Bockman, Assistant Professor of Medicine. Assistant Attending Physician, Endocrinology Service, Memorial Hospital. B.A. 1962, Johns Hopkins University; M.D. 1967, Yale University; Ph.D. 1971, Rockefeller University. (1971; 1975)
- Richard S. Bodaness, Adjunct Assistant Professor of Medicine, Clinical Affiliate, New York Hospital. B.Sc. 1964, McGill University (Canada); M.D. 1968, State University of New York. (1976; 1979)
- Eugene L. Bodian, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1944, University of Illinois; M.D. 1952. State University of New York. (1972)
- Xenie Bogaerts, Instructor in Anesthesiology. M.D. 1965, Charles University School of Medicine (Czechoslovakia). (1980)
- Morton D. Bogdonoff, Professor of Medicine. Attending Physician, New York Hospital. M.D. 1948, Cornell University. (1949; 1975)
- Walther H. O. Bohne, Associate Professor of Clinical Surgery. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1957 and Doctorate 1959, University of Munich (Germany). (1967; 1979)
- Thomas B. Boland, Assistant Professor of Psychology in Pediatrics; Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1966, Saint Mary's College; M.A. 1970 and Ph.D. 1973, University of Wisconsin.
- Hyam Bolocan, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. and M.D. 1944, University of Alberta (Canada). (1975; 1979)
- Oliver Bowes Bond, Clinical Assistant Professor of Medicine. M.B. and Ch.B. 1953, Otago University. (1980)

- Gabriel Bondi, Clinical Assistant Professor of Public Health, M.D. 1939, Basel (Switzerland); M.P.H. 1968. Columbia University. (1971)
- Roy W. Bonsnes, Emeritus Clinical Professor of Biochemistry in Obstetrics and Gynecology. B.S. 1930, University of Connecticut; Ph.D. 1939, Yale University. (1941; 1976)
- Robert J. Booher, Clinical Associate Professor of Surgery. Attending Surgeon, Gastric and Mixed Tumor Service, Memorial Hospital. B.A. 1934 and M.D. 1938, Creighton University. (1954; 1970)
- Dennis L. Bordan, Assistant Professor of Surgery. B.A. 1966, New York University; M.D. 1970, State University of New York. (1971; 1978)
- Jeffrey S. Borer, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1965, Harvard University; M.D. 1969, Cornell University. (1979)
- Marvin Boris, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital, B.S. 1954, Union College; M.D. 1958, New York University. (1960; 1978)
- John Boronow, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital, B.A. 1972 and M.D. 1977, Yale University. (1978; 1980)
- Dragan Borovac, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital, M.D. 1954, University of Vienna (Austria). (1964; 1973)
- Adele L. Boskey, Associate Professor of Biochemistry. Assistant Scientist, Hospital for Special Surgery. B.A. 1964, Barnard College; Ph.D. 1970, Boston University. (1972; 1980)
- George Joseph Bosl, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.S. 1969, John Carroll University; M.D. 1973, Creighton University. (1976; 1979)
- Jay Bosworth, Associate Professor of Clinical Radiology. Director, Radiation Oncology, North Shore University Hospital. B.S. 1966, Brooklyn College; M.D. 1970. Albert Einstein College of Medicine. (1979)
- Gilbert Botvin, Clinical Instructor in Psychology in Psychiatry. Ph.M. 1976 and Ph.D. 1977, Columbia University. (1980)
- Barbara Delli Bovi, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital, B.A. 1962, Trinity College; M.D. 1968, University of Rome (Italy). (1971; 1978)
- Lemuel Bowden, Clinical Assistant Professor of Surgery. Consultant, Gastric and Mixed Tumor Service, Memorial Hospital. A.B. 1936 and M.D. 1939, Harvard University. (1950; 1965)
- Anthony Bozza, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1964, New York University; M.D. 1970, University of Rome (Italy). (1972; 1976)
- Norman Brachfeld, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia University; M.D. 1953, Washington University. (1959; 1968)
- Michael J. Bradford, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. A.B. 1960, Yale University; M.D. 1964, Harvard University. (1965; 1975)

- Herbert E. Bradley, Clinical Instructor in Pediatrics. Attending Pediatrician, North Shore University Hospital. B.A. 1958, Wesleyan University; M.D. 1962, New York University. (1972)
- Robert L. Braham, Assistant Professor of Medicine; Clinical Assistant Professor of Public Health. Assistant Attending Physician, New York Hospital, A.B. 1966 and M.D. 1970, Cornell University. (1975; 1979)
- Richard D. Brand, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.S. 1974, City College of New York; M.D. 1977, New York Medical College. (1978; 1980)
- Jerome H. Brander, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1954, Columbia College; M.D. 1958, Columbia University. (1961; 1963)
- Stephanie Brandt, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1972, Barnard College; M.D. 1977, State University of New York Downstate Medical Center. (1978; 1980)
- Gerald M. Branower, Clinical Assistant Professor of Ophthalmology. Associate Attending Ophthalmologist, North Shore University Hospital. B.A. 1937, Johns Hopkins University; M.D. 1941, Columbia University. (1977)
- Carol Bartlett Braun, Assistant Professor of Obstetrics and Gynecology. Assistant Attending Physician in Obstetrics and Gynecology, New York Hospital. B.A. 1971, University of Washington; M.D. 1975, University of Colorado. (1979)
- Barry D. Brause, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital, B.A. 1966, New York University; M.D. 1970, University of Pittsburgh. (1971; 1980)
- Robert G. Brayton, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1954, Williams College; M.D. 1958, Cornell University. (1959; 1972)
- Charles P. Bredin, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1964 and M.B.B.Ch. 1970, University College (Ireland). (1977; 1979)
- Martin Breitman, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1964, Brooklyn College; Ph.D. 1969, Yeshiva University. (1976)
- Robert Brescia, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1973, Fordham University; M.D. 1977, State University of New York. (1978; 1980)
- Esther M. Breslow, Professor of Biochemistry. B.S. 1953, Cornell University; M.S. 1955 and Ph.D. 1959, New York University. (1960; 1978)
- Richard E. Breslow, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1968, Yale University; M.D. 1973, New York University. (1978; 1980)
- Philip A. Bresnick, Clinical Instructor in Obstetrics and Gynecology, B.A. 1954, Washington University; M.D. 1958, State University of New York Downstate Medical Center. (1980)
- Gerald Brezenoff, Clinical Assistant Professor of Psychology in Psychiatry, B.A. 1960, Brooklyn College; Ph.D. 1968, Adelphi University. (1980)
- Mitchell Brice II, Clinical Assistant Professor of

- Surgery (Urology), Clinical Affiliate in Surgery (Urology), New York Hospital. B.S. 1941 and M.D. 1945, University of Georgia. (1951; 1970)
- James Brunskill Brierley, Adjunct Professor of Pathology; Adjunct Professor of Neurology. M.B.B.Ch. 1944 and M.D. 1947, Bristol University (England).
- Paula W. Brill, Associate Professor of Radiology in Pediatrics: Associate Professor of Radiology, Associate Attending Radiologist in Pediatrics; Associate Attending Radiologist, New York Hospital. Assistant Attending Pediatric-Radiologist, Diagnostic Radiology Department and Assistant Attending Roentgenologist-Pediatrician, Memorial Hospital. B.A. 1958, Brooklyn College; M.D. 1962, Cornell
- University. (1967; 1979) Renee M. Brilliant, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1946, New York University; M.A. 1950, Columbia University; M.D. 1957, New York University. (1959; 1971)
- Myron Brin, Adjunct Professor of Nutrition in Medicine. B.S. 1947 and M.N.S. 1948, Cornell University; Ph.D. 1951, Harvard University. (1979)
- William A. Briscoe, Professor of Medicine. Clinical Professor of Medicine in Physiology. Attending Physician, New York Hospital. B.A. 1939, M.A. 1941, B.M.B.Ch. 1942 and D.M. 1951, Oxford University (England). (1968; 1975)
- Nora Brockner, Clinical Instructor of Psychiatry. Assistant Psychiatrist, New York Hospital. B.S. 1967, Cornell University; M.A. 1970, Columbia University; M.D. 1975, New York Medical College. (1976; 1980)
- Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Surgeon, Gynecology Service, Memorial Hospital. B.S. 1945, Franklin and Marshall College; M.D. 1947, Jefferson University. (1957; 1962).
- Alexander R. Broden, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1954, City College of New York; M.D. 1958, State University of New York. (1978)
- Lynne M. Brody, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1966, Harpur College; M.D. 1970, New York University. (1980)
- Marinus Jonah Broekman, Assistant Professor of Biochemistry in Medicine. B.S. 1967, M.S. 1969 and Ph.D. 1976, University of Utrecht (The Netherlands). (1976; 1980)
- Bertram E. Bromberg, Clinical Associate Professor of Surgery (Plastic Surgery). Attending Surgeon (Plastic Surgery), North Shore University Hospital. D.D.S. 1941, Columbia University; M.D. 1945, Long Island College of Medicine. (1971)
- Philip M. Bromberg, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1953, New York University; M.A. 1961, New School for Social Research; Ph.D. 1967, New York University. (1971;
- Judith Bronner-Huszar, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital; Assistant Attending Physician, Neuropsychiatry, Memorial-Sloan Kettering Cancer Cen-

- ter. Certificât d'Etudes Medicales and Certificât de Docteur, 1955, University of Lausanne (Switzerland).
- Richard A. Bronson, Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1962, Massachusetts Institute of Technology; M.D. 1966, New York University. (1978)
- Dana C. Brooks, Professor of Anatomy (Acting Chairman). B.E.E. 1949 and M.D. 1957, Cornell University. (1955; 1971)
- Mark Steven Brower, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1970, New York University; M.D. 1974, Johns Hopkins University, (1979; 1980)
- Ross B. Brower, Clinical Instructor of Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1971, University of Virginia; M.D. 1975, New York Medical College. (1977; 1980)
- Arthur E. Brown, Assistant Professor of Medicine. B.S. 1967, Bucknell University; M.D. 1971, Jefferson Medical College. (1979; 1980)
- Arthur T. Brown, Assistant Professor of Medicine. Clinical Assistant, Memorial Hospital. M.A. 1969 and Ph.D. 1973, Johns Hopkins University: M.D. 1974. Harvard University. (1976; 1980)
- George C. Brown, Clinical Instructor in Surgery. Orthopedic Surgeon to Outpatients, Hospital for Special Surgery, B.S. 1966, Yale University; M.D. 1970, Columbia University. (1974; 1978)
- Jeffrey L. Brown, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1961, Hobart College; M.D. 1965, University of Maryland. (1970; 1977)
- John L. Brown, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1952 and M.D. 1955, Cornell University. (1958; 1971)
- J. Warren Brown, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1957, Harvard University; M.D. 1961, Cornell University. (1963; 1978)
- Phillida Brown, Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1971, Swarthmore College; Ph.D. 1979, Teachers College. (1975; 1980)
- William R. Brown, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician to Outpatients, New York Hospital, B.A. 1962, Carleton College; M.D. 1966, University of Kansas; M.P.H. 1970, Johns Hopkins University. (1974; 1978)
- William T. Brown, Assistant Professor of Medicine. Clinical Affiliate, New York Hospital. B.A. 1967, M.A. 1969 and Ph.D. 1973, Johns Hopkins University; M.D. 1974, Harvard University. (1977; 1978)
- Ruth D. Bruun, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, A.B. 1959, Radcliffe College; M.D. 1968. Cornell University. (1971; 1979)
- Mary C. Buchanan, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. M.B., Ch.B. and B.Sc. 1946, University of Edinburgh (Scotland). (1959; 1978)
- Mitchell I. Buchbinder, Clinical Instructor in Surgery. B.A. 1965, Franklin and Marshall College; M.D. 1969, State University of New York. (1977) Myron I. Buchman, Clinical Associate Professor of

- Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1943, Lehigh University; M.D. 1946, Johns Hopkins University. (1950; 1966)
- Betty Buchsbaum, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital, A.B. 1948, Cornell University; M.A. 1950, University of Pennsylvania; Ph.D. 1965, Yeshiva University. (1976)
- Daniel R. Budman, Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. A.B. 1968, Princeton University; M.D. 1972. Albert Einstein College of Medicine. (1976;
- Robert R. Bugbee, Instructor in Radiology, B.A. 1962, \* Florida Southern College; M.Ed. 1968, Florida Atlantic State University. (1969)
- Judith Berman Bukberg, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.A. 1969, University of Rochester; M.D. 1974, Mount Sinai School of Medicine. (1978;
- Peter G. Bullough, Professor of Pathology, Attending Pathologist, Hospital for Special Surgery. M.B. and Ch.B. 1956, Liverpool University (England). (1969;
- Joseph H. Burchenal, Emeritus Professor of Medicine. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania University. (1949; 1978)
- Daphne Freda Burdman, Clinical Instructor of Psychiatry, M.B. and B.S. 1953, University of London (England). (1979)
- John J. Burns, Adjunct Professor of Pharmacology. B.S. 1942. Queens College: M.A. 1948 and Ph.D. 1950, Columbia University. (1968; 1973)
- Albert H. Burstein, Professor of Applied Biomechanics in Surgery (Orthopedics); Associate Professor of Biomechanical Engineering, College of Engineering, Cornell University. Director, Applied Biomechanics in Orthopedic Surgery, Hospital for Special Surgery. B.M.E., 1959, Cooper Union College; M.M.E. 1961, Polytechnic Institute of Brooklyn; Ph.D. 1969, New York University. (1976; 1978)
- Shlomo Burstein, Adjunct Professor of Biochemistry in Medicine. M. Sc 1946 and Ph.D. 1951, Hebrew University (Israel). (1973; 1979)
- William Burten, Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1963, Brown University; M.A. 1965, New York University; M.D. 1976, University of Miami. (1979)
- Alexander Butkiewicz, Clinical Assistant Professor of Radiology. M.D. 1960, Boston University Medical School. (1979)
- Thomas A. Butler, Clinical Instructor in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. B.A. 1965, Clemson College; M.D. 1969, Medical University of South Carolina. (1976;
- John C. Byrne, Clinical Assistant Professor of Surgery (Urology). Clinical Affiliate, New York Hospital. M.S. 1961, New York University; M.D. 1965, State University of New York. (1980)
- Edward J. Cafruny, Adjunct Professor of Pharmacology. B.A. 1950, Indiana University; Ph.D. 1955, Syracuse University; M.D. 1959, University of Michigan. (1973)
- William G. Cahan, Professor of Clinical Surgery.

- Attending Surgeon, Thoracic Service, Memorial Hospital. B.S. 1935, Harvard University; M.D. 1939, Columbia University. (1950: 1979)
- Linda Theil Cahill, Instructor of Pediatrics, A.B. 1962, Barnard College; M.D. 1969, Medical College of Pennsylvania. (1977; 1980)
- Patrick Cahill, Adjunct Associate Professor of Physics in Radiology, B.S. 1956 and M.S. 1958, University of New Hampshire; Ph.D. 1963, Harvard University. (1970: 1973)
- John Gregory Cairncross, Fellow in Neurology, Memorial Hospital. M.D. 1974, University of Western Ontario (Canada). (1976; 1978)
- Eugene V. Calvelli, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. A.B. 1944, Dartmouth College; M.D. 1947, New York University. (1971)
- Donald J. Cameron, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1951, Amherst College; M.D. 1955, Cornell University. (1961; 1973)
- Walter A. Camp, Clinical Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. B.A. 1953, University of Arkansas; M.D. 1957, Emory University. (1959; 1968)
- Bruce Campbell, Clinical Assistant Professor of Otorhinolaryngology. Assistant Attending Otorhinolaryngologist, Department of Surgery, North Shore University Hospital, B.S. 1961, New York University: M.D. 1966, New York Medical College. (1975; 1978)
- Rolla D. Campbell, Clinical Associate Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery, A.B. 1942, Harvard University; M.D. 1945, Columbia University. (1956; 1965)
- Peter C. Canizaro, Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital. B.A. 1956 and M.D. 1960, University of Texas. (1976)
- Ronald M. Caplan, Clinical Assistant Professor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1958, M.D. and C.M. 1962, McGill University (Canada). (1971; 1974)
- Ralph E. Caprio, Instructor of Pediatrics. Pediatrician, New York Hospital. B.S. 1971, Rutgers University; M.D. 1977, Mount Sinai School of Medicine. (1978;
- James Caravelli, Assistant Professor of Radiology. B.S. 1970, University of Illinois; M.D. 1974, Cornell University. (1977; 1980)
- Graziano Carlon, Clinical Assistant Professor of Anesthesiology. Clinical Assistant Attending Anesthesiologist, Memorial Hospital, M.D. 1968, University of Padova (Italy). (1978; 1980)
- Arthur S. Carlson, Clinical Associate Professor of Pathology, B.A. 1941, Brooklyn College; M.D. 1952, Cornell University. (1952; 1977)
- Eric T. Carlson, Clinical Professor of Psychiatry. Attending Psychiatrist, New York Hospital. B.A. 1944, Wesleyan University; M.D. 1950, Cornell University. (1952; 1970)
- John J. Caronna, Professor of Clinical Neurology. Attending Neurologist, New York Hospital, B.A. 1961, Fordham University; M.D. 1965, Cornell University. (1973; 1980)

- Walter T. Carpenter, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. A.B. 1934, Williams College; M.D. 1938, Cornell University. (1940; 1968)
- Arthur C. Carr, Professor of Clinical Psychology in Psychiatry. Attending Psychologist, New York Hospital. B.S. 1941, Buffalo State Teachers College; M.A. 1946, Columbia University; Ph.D. 1952, University of Chicago. (1978; 1979)
- Robert Carras, Clinical Associate Professor of Surgery (Neurosurgery). Attending Surgeon (Neurosurgery), North Shore University Hospital. B.S. 1950, City College of New York; M.D. 1955, State University of New York. (1972; 1973)
- David B. Case, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1964, Princeton University; M.D. 1968, Columbia University. (1975; 1979)
- Donald J. Casper, Clinical Associate Professor of Obstetrics and Gynecology, B.A. 1952 and M.D. 1956, New York University. (1972)
- Ephraim S. Casper, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.S. 1971, University of Illinois; M.D. 1974, Rush Medical College. (1979)
- Eric J. Cassell, Clinical Professor of Public Health. B.S. 1950, Queens College; M.A. 1950, Columbia University; M.D. 1954, New York University. (1959; 1971)
- Benedict S. Caterinicchio, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1954, Johns Hopkins University; M.D. 1958, New York Medical College. (1960; 1977)
- Brian Catlin, Clinical Assistant Professor of Surgery. A.B. 1961 and M.D. 1966, Harvard University. (1976)
- McKeen Cattell, Emeritus Professor of Pharmacology. B.S. 1914, Columbia University; A.M. 1917, Ph.D. 1920 and M.D. 1924, Harvard University. (1924;
- John Cavallari, Assistant Professor of Clinical Radiology (Physics), Assistant Attending Physicist, Department of Medical Physics, Memorial Hospital. B.E.E. 1957 and M.S. 1963, Brooklyn Polytechnic Institute. (1969; 1978)
- James J. Cavanagh, Clinical Assistant Professor of Psychiatry. Associate Attending Psychiatrist, North Shore University Hospital, B.A. 1954, Fordham University; M.D. 1958, New York Medical College. (1970; 1980)
- Lars L. Cederqvist, Associate Professor of Clinical Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.Med. 1957, B.Phil. 1959 and M.D. 1964, University of Lund (Sweden). (1964; 1979)
- Reynold Cesar, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, North Shore University Hospital. M.D. 1959, University of Haiti. (1978)
- Yolanda A. Cestero, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. M.D. 1966, Santo Domingo University (Dominican Republic). (1971; 1975)
- Ragu S. K. Chaganti, Assistant Professor of Genetics in Pathology. Professional Associate, Memorial Hospital. M.Sc. 1955, Andhra University (India); Ph.D. 1964, Harvard University. (1979)
- Toros A. Chaglassian, Assistant Professor of Clinical

- Surgery. Clinical Assistant Surgeon, Acting Chief, Plastic and Reconstructive Surgical Service, Memorial Hospital. B.S. 1963 and M.D. 1967, American University of Beirut (Lebanon). (1972; 1980)
- Maxwell M. Chait, Clinical Assistant Professor of Medicine. Adjunct Physician, Memorial Hospital. B.A. 1969, University of Utah; B.S. 1969 and M.D. 1972, University of California at San Francisco. (1975;
- Jacqueline Chami, Assistant Professor of Biochemistry (Surgery); Assistant Professor of Surgery (Biochemistry); Assistant Professor of Medicine. Assistant Attending Surgeon and Assistant Attending Physician, New York Hospital. M.D. 1971, French Faculty of Medicine of Beirut (Lebanon), (1974;
- Walter W. Y. Chan, Professor of Pharmacology, B.A. 1956, University of Wisconsin; Ph.D. 1961, Columbia University. (1960; 1976)
- Manhu Chandra, Assistant Professor of Pediatrics. Associate, Division of Nephrology, North Shore University Hospital. M.B.B.S. 1968 and G.S.V.M. Medical College, Kanpur (India). (1972; 1979)
- Henry Chang, Visiting Assistant Professor of Pediatrics. Clinical Affiliate, New York Hospital. B.S. 1965, Yale University; M.D. 1969, Harvard University. (1976; 1979)
- Stanley Chang, Assistant Professor of Clinical Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. B.S. 1968, Massachusetts Institute of Technology; M.S. 1970, University of Pennsylvania; M.D. 1974, Columbia University. (1979)
- Joanna Chapin, Clinical Instructor of Psychiatry. Clinical Affiliate, New York Hospital, B.A. 1964, Bryn. Mawr College; M.D. 1971, University of Pennsylvania. (1977; 1980)
- Carleton B. Chapman, Adjunct Professor of Medicine. A.B. 1936, Davidson College; B.A. 1938 and M.A. 1950, Oxford University; M.D. 1941 and M.P.H. 1944, Harvard University. (1979)
- Ron Charach, Instructor of Clinical Psychiatry. Assistant Psychiatrist (Child). B.A. 1971, B.S. 1977 and M.D. 1977, University of Manitoba (Canada). (1979; 1980)
- Leon Charash, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1947 and M.D. 1950, Cornell University. (1954; 1973)
- Mary E. Charlson, Assistant Professor of Medicine; Assistant Professor of Public Health. Assistant Attending Physician, New York Hospital. B.A. 1970, Wellesley College; M.D. 1972, Yale University. (1979)
- Steven H. Charno, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1968, Cornell University; M.D. 1972, University of South Carolina. (1979)
- Jhoong S. Cheigh, Assistant Professor of Biochemistry; Associate Professor of Clinical Medicine; Associate Professor of Clinical Surgery. Associate Attending Physician, New York Hospital; Associate Attending Surgeon, New York Hospital. B.A. 1956, M.D. 1960 and M.N.S. 1962, Kyungpuk National University (Korea). (1970; 1979)
- Andrew Cheng, Clinical Instructor in Anesthesiology. M.D. 1962, Peking Medical College (People's Republic of China). (1976; 1980)

- Edgar W. Cheng, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.S. 1966, University of Notre Dame; M.D. 1971, Medical College of Wisconsin. (1972; 1978)
- Thomas D. Cherubini, Clinical Associate Professor of Ophthalmology, Associate Attending Surgeon, New York Hospital. M.D. 1964, Hahnemann Medical College. (1972; 1977)
- Irene Chiarandini, Adjunct Assistant Professor of Psychiatry, B.A. 1956, Colegio Ward, Argentina; M.D. 1963, University of Buenos Aires (Argentina). (1980)
- Dominick R. Chiarieri, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1970, St. Peter's College; M.D. 1974, Cornell University. (1979)
- Mickey Chiu, Clinical Instructor of Pediatrics. North Shore University Hospital Staff, B.S.E. 1969, Princeton University; M.D. 1974, Johns Hopkins University. (1979)
- William N. Christenson, Associate Professor of Clinical Medicine. Associate Attending Physician, New York Hospital. M.D. 1948, Johns Hopkins University; B.S. 1949, University of North Carolina. (1953; 1979)
- Charles L. Christian, Professor of Medicine. Attending Physician, New York Hospital; Physician in Chief, Hospital for Special Surgery. B.A. 1949, University of Wichita; M.D. 1953, Western Reserve University. (1970)
- James P. Christodoulou, Clinical Assistant Professor of Medicine, Assistant Attending Physician, New York Hospital; Adjunct Physician, Cardiopulmonary Service, Memorial Hospital. A.B. 1962, Columbia University; M.D. 1966, State University of New York. (1970:1978)
- Florence C. Chu, Professor of Radiology. Attending Radiologist, New York Hospital; Chairman, Department of Radiation Therapy, Memorial Hospital. M.D. 1942, National Medical College of Shanghai (People's Republic of China). (1951; 1977)
- Edwin H. Church, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital, M.D. 1949, University of Rochester. (1966;
- Vincent A. Cipollaro, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1953, University of Buffalo; M.D. 1958, University of Padua (Italy). (1965; 1975)
- Hugh E. Claremont, Associate Professor of Clinical Medicine. Associate Attending Physician, New York Hospital. M.B.B.S. 1944 and M.D. 1951, University of London (England); M.S. 1958, University of Colorado. (1958; 1979)
- Cornelius J. Clark, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1952, Harvard University; M.D. 1959, Columbia University. (1969; 1977)
- Donald G. C. Clark, Associate Professor of Clinical Surgery, Clinical Affiliate in Surgery, New York Hospital; Clinical Affiliate in Psychiatry, Westchester Division, New York Hospital; Attending Surgeon, Gynecology Service, Memorial Hospital. B.Sc. 1940 and M.B. and Ch.B. 1944, Saint Andrews University (Scotland); M.D. 1945, Yale University. (1956; 1979)
- Robert L. Clarke, Associate Attending CAC of Surgery. Associate Attending Surgeon, New York Hospital; Assistant Attending Surgeon, North Shore University

- Hospital, B.A. 1946, Bowdoin College; M.D. 1950, Cornell University. (1956; 1978)
- John F. Clarkin, Associate Professor of Clinical Psychology in Psychiatry. Associate Attending Psychologist, New York Hospital. B.S. 1961, Saint Benedict's College; M.A. 1967 and Ph.D. 1971, Fordham University. (1970; 1979)
- Bayard D. Clarkson, Professor of Medicine, Attending Physician, Chief, Hematology-Lymphoma Service, Memorial Hospital. B.A. 1948, Yale University: M.D. 1952, Columbia University. (1955; 1974)
- M. David Clayson, Associate Professor of Psychology in Psychiatry. Associate Attending Psychologist, New York Hospital, B.S. 1956, University of Utah: M.A. 1960 and Ph.D. 1963, Washington University. (1963: 1972)
- Samuel C. E. Clayton, Clinical Assistant Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), North Shore University Hospital. B.S. 1940, Duke University; M.D. 1944, Long Island College of Medicine. (1972; 1973)
- Edward L. Coffey, Associate Professor of Pathology. Assistant Attending Pathologist, Department of Laboratories, North Shore University Hospital, B.A. 1956, Princeton University; M.D. 1960, Columbia University. (1971; 1979)
- Abraham I. Cohen, Adjunct Associate Professor of Psychology in Psychiatry. B.S. 1957, Columbia University; M.A. 1960, New School for Social Research; Ph.D. 1963; Yeshiva University. (1980)
- Barry H. Cohen, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1968, New York University; M.D. 1972, Harvard University. (1979)
- Barton E. Cohen, Clinical Instructor in Medicine. A.B. 1971 and M.D. 1975, New York University. (1976;
- Bertram I. Cohen, Adjunct Assistant Professor of Biochemistry in Medicine; Adjunct Assistant Professor of Biochemistry, M.S. 1968 and Ph.D. 1970, New York University. (1979; 1980)
- Daniel I. Cohen, Adjunct Associate Professor of Biostatics in Psychiatry. A.B. 1967, Princeton University; M.A. 1970 and Ph.D. 1975, Harvard University. (1980)
- David E. Cohen, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital, B.A. 1958, Brandeis University: M.D. 1962, State University of New York. (1971; 1973)
- Eugene J. Cohen, Emeritus Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1933 and M.S. 1934, University of Wisconsin; M.D. 1938, Cornell University. (1943; 1977)
- Gary Cohen, Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. B.S. 1962, State University of New York; M.S. 1964, Adelphi University; M.D. 1970, University of Bologna (Italy). (1977)
- Irwin R. Cohen, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. A.B. 1946 and M.D. 1949, University of Pennsylvania; M.S. 1953, New York University. (1972)
- Jacob L. Cohen, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore Univer-

- sity Hospital. B.A. 1957, Syracuse University. M.D. 1961, State University of New York. (1977)
- Michael L. Cohen, Clinical Instructor in Medicine Senior Assistant Attending Physician, North Shore University Hospital. B.A. 1963, Syracuse University; M.D. 1967, State University of New York. (1976)
- Richard P. Cohen, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1971, Clark University; M.D. 1975, Cornell University. (1978; 1980)
- Roni O. Cohen, Clinical Instructor of Psychology in Psychiatry. B.Ed. 1964, University of Miami; M.Ed. 1973 and Ph.D. 1977, Columbia University. (1974;
- Ruth P. Cohen, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. B.A. 1963, Vassar College; M.D. 1967, New York University. (1976)
- Jonas Cohler, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1956, University of Michigan; Ph.D. 1962, Harvard University. (1979)
- Sidney Cohn, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1935, College of the City of New York; M.D. 1939, Boston University. (1972)
- Zanvil Cohn, Adjunct Professor of Medicine. B.S. 1949, Bates College; M.D. 1953, Harvard University. (1977)
- Thomas J. Colatsky, Assistant Professor of Physiology. B.S. 1969, Georgetown University; Ph.D. 1977, State University of New York. (1979)
- John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke University; M.D. 1940, University of Maryland. (1943; 1951)
- Robert Cole, Clinical Assistant Professor of Surgery (Dentistry). Clinical Affiliate Attending Dentist, New York Hospital. B.A. 1942 and D.D.S. 1944, Columbia University. (1977)
- D. Jackson Coleman, John Milton McLean Professor of Ophthalmology (chairman). B.S. 1956, Union College; M.D. 1960, University of Buffalo. (1979)
- John W. Coleman, Clinical Associate Professor of Surgery (Urology). Associate Attending Surgeon (Urology), New York Hospital. A.B. 1960; M.D. 1964, Georgetown University. (1965; 1978)
- Morton Coleman, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.A. 1958, College of William and Mary; B.A. 1959, Johns Hopkins University; M.D. 1963, Medical College of Virginia. (1967; 1975)
- Raymond H. Coll, Clinical Associate Professor of Neurology. Associate Attending Neurologist, New York Hospital, B.C. 1955 and M.B.B.Ch. 1961, University of the Witwatersrand (South Africa). (1968; 1978)
- Robert Collier, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1955 and M.D. 1959, Cornell University. (1960: 1972)
- Michael B. Collins, Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1972, Brown University; M.D. 1975, New York Medical College. (1978; 1980)
- Patrick Concannon, Clinical Assistant Professor of

- Obstetrics and Gynecology. Associate Attending Obstetrician, North Shore University Hospital, B.A. 1951, Fordham University; M.D. 1955, New York University. (1971; 1976)
- C. Stephen Connolly, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1955, Fordham University; M.D. 1959, Cornell University. (1960; 1968)
- Myron W. Conovitz, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital, A.B. 1954, Yale University; M.D. 1958, Harvard University. (1971; 1974)
- Elizabeth F. Constantine, Clinical Assistant Professor of Ophthalmology. Attending Ophthalmologist, New York Hospital. B.A. 1931, Vassar College; M.D. 1937, Johns Hopkins University. (1950; 1972)
- Socrates Constantinou, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1958, Hunter College; M.D. 1965, University of Athens (Greece). (1970; 1978)
- Francis P. Coombs, Clinical Assistant Professor of Medicine. Adjunct Physician, Memorial Hospital; Clinical Affiliate in Medicine, New York Hospital. B.A. 1937, Colgate University; M.D. 1940, Cornell University. (1963; 1968)
- Arnold M. Cooper, Professor of Psychiatry. Attending Psychiatrist, New York Hospital. A.B. 1943, Columbia University; M.D. 1947, University of Utah. (1974)
- Arthur J. L. Cooper, Assistant Professor of Biochemistry in Neurology. Instructor in Biochemistry. B.Sc. 1967 and M.Sc. 1969, University of London (England); Ph.D., Cornell University. (1975; 1977)
- Howard N. Cooper, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1943, Northwestern University; M.D. 1949, Columbia University. (1951; 1952)
- Theodore Cooper, Professor of Pharmacology; Professor of Surgery. Honorary, New York Hospital. B.S. 1949, Georgetown University; M.D. 1954 and Ph.D. 1956, St. Louis University. (1977)
- Leslie B. Cooperman, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1963, City University of New York; M.D. 1967, Chicago Medical School. (1975; 1978)
- Lester R. Corn, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital, B.S. 1949, Long Island University; M.D. 1955, University of Lausanne (Switzerland). (1971; 1976)
- George N. Cornell, Associate Professor of Clinical Surgery. Attending Surgeon, New York Hospital. M.D. 1950, Cornell University. (1951; 1979)
- James S. Cornell, Assistant Professor of Biochemistry. B.S. 1969, Michigan State University; Ph.D. 1973, University of California. (1974; 1975)
- James Coromilas, Instructor in Medicine. B.S. 1969. Columbia University; M.D. 1975, McGill University (Canada). (1979)
- Armand F. Cortese, Associate Professor of Clinical Surgery, Associate Attending Surgeon, New York Hospital. A.B. 1954, Columbia University; M.D. 1958, Cornell University. (1959; 1978)
- Michael Coughlin, Assistant Professor of Molecular Biology in Neurology. B.A. 1962, University of Notre Dame; S.T.L. 1967, Catholic University of Chile; Ph.D. 1974, Stanford University. (1976; 1979)

Alan H. Covey, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1950, Bethany College; M.D. 1954, Yale University. (1968; 1978)

Jerome A. Covey, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. A.B. 1936, Yale University; M.D. 1941, University of Western Ontario (Canada). (1970; 1971)

Denton S. Cox, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale University; M.D. 1952, Columbia University. (1953; 1965)

Jean Cramer, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1947, Barnard College; M.D. 1950, Cornell

University. (1952; 1967)

- Marvin E. Cramer, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1965, Johns Hopkins University; M.D. 1969, Jefferson Medical College. (1978; 1980)
- Melvin W. Crosby, Clinical Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1970, Clark University; Ph.D. 1976, City University of New York. (1979)
- John F. Crow, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1965, Davidson College; M.D. 1969, Baylor College of Medicine. (1975; 1980)
- Sonia B. Cruz, Clinical Instructor in Pediatrics. Clinical Affiliate in Pediatrics, New York Hospital. M.D. 1965, University of Santo Tomas (Philippines). (1972;
- Antonio Cubilla, Assistant Professor of Pathology. B.A. 1962, Colegio San Jose (Paraguay); M.D. 1968, Facultad de Ciencias Medicas (Paraguay), (1973;
- Robert L. Cucin, Clinical Instructor in Surgery (Plastic Surgery). Clinical Affiliate in Surgery, New York Hospital. B.A. 1967 and M.D. 1971, Cornell University. (1972; 1979)
- David C. Cang Cuesta, Instructor in Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital, B.S. 1969, Silliman University (Philippines); M.D. 1974, Cebu Institute of Medicine (Philippines).
- Francis Mitchel Cummins, Clinical Associate Professor of Radiology. Associate Attending Radiologist, New York Hospital. B.S. 1942, Harvard University; M.D. 1945, Columbia University. (1951; 1973)
- P. William Curreri, Johnson and Johnson Distinguished Professor of Surgery. Attending Surgeon, New York Hospital. B.A. 1958, Swarthmore College; M.D. 1962, University of Pennsylvania. (1977)
- Violante E. Currie, Clinical Assistant Professor of Medicine. Assistant Attending Physician, Medical Oncology, Department of Medicine, Memorial Hospital. M.D. 1967, University of Illinois. (1970; 1977)
- Zinet E. Currimbhoy, Associate Professor of Clinical Pediatrics. B.S. 1945, University of Bombay (India); M.D. 1950, University of Toronto (Canada); D.Ch. 1952, College of Physicians and Surgeons (India). (1973; 1979)
- William T. Curry, Clinical Assistant Professor of Surgery, Assistant Attending Surgeon, New York Hospital. M.D. 1968, Howard University. (1969;

- Brian Curtin, Clinical Associate Professor of Ophthalmology. Attending Ophthalmologist, New York Hospital; Attending Surgeon, Manhattan Eye, Ear, and Throat Hospital. B.S. 1942, Fordham University; M.D. 1945, New York University. (1971; 1977)
- Gabriel George Curtis, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1957, Fordham University; M.D. 1962, New York Medical College. (1965; 1974)
- James L. Curtis, Associate Dean; Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital, B.A. 1944, Albion College; M.D. 1946, University of Michigan, (1969: 1970)
- Scott B. Cutler, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1973, Boston University; M.D. 1977, New York Medical College. (1978; 1980)
- E. Gerald Dabbs, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1958, Texas Technological College; M.D. 1962, University of Texas. (1969; 1977)
- Norman Dain, Adjunct Professor of Psychiatry (History). B.A. 1953, Brooklyn College; M.A. 1957 and Ph.D. 1961, Columbia University. (1958; 1976)
- B. Shannon Danes, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke College; M.A. 1949, University of Texas; Ph.D. 1952, State University of lowa; M.D. 1962, Columbia University. (1963; 1967)
- Helen E. Daniells, Clinical Professor of Psychiatry. Attending Psychiatrist, New York Hospital. B.A. 1937, Barnard College; M.D. 1941, Cornell University. (1943; 1977)
- Farrington Daniels, Jr., Professor of Medicine (Dermatology); Professor of Public Health. Attending Physician, New York Hospital; Attending Physician, Dermatology Service, Memorial Hospital. B.A. 1940 and M.A. 1942, University of Wisconsin; M.D. 1943 and M.P.H. 1952, Harvard University. (1947; 1969)
- Margaret Dann, Emeritus Professor of Pediatrics. A.B. 1923, Oberlin College; M.S. 1925, University of Illinois; Ph.D. 1932, Cornell University; M.D. 1937, Yale University. (1940; 1967)
- Gretchen J. Darlington, Associate Professor of Medicine. B.S. 1964, University of Colorado; M.S. 1966 and Ph.D. 1970, University of Michigan. (1974;
- Thomas Darrigan, Clinical Assistant Professor of Surgery (Oral). Assistant Attending Oral Surgeon, New York Hospital. B.S. 1959 and D.D.S. 1963, University of Maryland. (1964; 1977)
- Fredric Daum, Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital and North Shore University Hospital. B.A. 1963, Harvard University; M.D. 1967, Tufts University. (1977; 1980)
- Helen Davidoff-Hirsch, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Radcliffe College; M.D. 1953, Harvard University. (1975)
- E. William Davis, Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital, B.A. 1947, Wesleyan University; M.D. 1951, Cornell University. (1952; 1971)
- Jerome G. Davis, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending

- Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Dartmouth College; M.D. 1939, University of Arkansas. (1971; 1973)
- Jessica G. Davis, Associate Professor of Clinical Pediatrics. B.A. 1955, Wellesley College; M.D. 1959, Columbia University. (1974; 1979)
- John M. Davis, Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. A.B. 1968, Columbia University; M.D. 1972, Wayne State University. (1973; 1977)
- Joseph D. Davis, Clinical Assistant Professor of Surgery (Dentistry). Assistant Attending Dentist, New York Hospital, B.A. 1940 and D.D.S. 1943, New York University. (1977)
- William N. Davis, Adjunct Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1964 and Ph.D. 1969. Harvard University. (1971; 1979)
- C. Pinckney Deal, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1952, Duke University; S.M. 1954, Wake Forest College; M.D. 1958, Harvard University. (1962; 1965)
- Lois B. de Alvarado, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1952, University of Kansas. (1955: 1978)
- Ellen R. DeBell, Clinical Instructor in Psychiatry, Clinical Affiliate, Department of Psychiatry, New York Hospital. B.A. 1966, Oberlin College; M.D. 1974, Albert Einstein College of Medicine. (1977; 1978)
- Michael D. F. Deck, Associate Professor of Radiology. Associate Attending Radiologist, New York Hospital; Attending Roentgenologist, Diagnostic Radiology, Memorial Hospital, M.B.B.S. 1961, University of Sydney (Australia); M.C.R.A. 1965, College of Radiologists of Australia; F.F.R. 1967, Royal College of Surgeons (England). (1968; 1972)
- Robert E. Decker, Clinical Instructor in Surgery. Junior Assistant Attending Surgeon (Neurosurgery), North Shore University Hospital. B.A. 1959 and M.D. 1963, Temple University. (1972)
- Stephen L. Deckoff, Clinical Instructor in Surgery. Junior Assistant Attending Surgeon, North Shore University Hospital. B.S. 1943, Yale University; M.D. 1947, Harvard University. (1972)
- Jerome J. DeCosse, Professor of Surgery. Assistant Attending Surgeon, New York Hospital. Chairman, Department of Surgery; Attending Surgeon, Rectal and Colon Service, Memorial Hospital. B.S. 1948, College of St. Thomas (Minnesota); M.D. 1952, University of Minnesota; Ph.D. 1969, State University of New York. (1978)
- Michael R. Deddish, Emeritus Clinical Associate Professor of Surgery. Attending Surgeon, Rectal and Colon Service, Memorial Hospital. B.A. 1933 and M.D. 1937, Ohio State University. (1942; 1978)
- Paul F. de Gara, Emeritus Clinical Professor of Pediatrics. Associate Attending Physician, New York Hospital. M.D. 1926, University of Heidelberg (Germany); M.D. 1927, University of Padua (Italy). (1941; 1971)
- Thomas J. Degnan, Associate Professor of Medicine. Chief, Section of Hematology, Attending Physician, North Shore University Hospital. B.S. 1952, Rutgers University; M.D. 1956, New York Medical College. (1970; 1975)

- Patricia Conrad de Hempel, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1966, Syracuse University; M.D. 1970, Woman's Medical College. (1971; 1977)
- John N. De Hoff, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. A.B. 1934 and M.D. 1937, New York University. (1972)
- John E. Deitrick, Emeritus Professor of Medicine. Honorary Staff, New York Hospital. B.S. 1929, Princeton University; M.D. 1933, Johns Hopkins University. (1936; 1970)
- Renato A. DeLeon, Clinical Instructor in Medicine. Clinical Affiliate, Department of Medicine, New York Hospital. M.D. 1960, University of Santo Tomas (Philippines), (1978)
- Andrea K. Delgado, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1967, Vassar College; M.D. 1972, University of Michigan. (1979)
- Alan De Mayo, Clinical Associate Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1953, Albany Medical College. (1958; 1980)
- Alan Dembner, Clinical Assistant Professor of Radiology. M.D. 1973, Tufts University. (1980)
- Angelo Joseph De Palo, Clinical Assistant Professor of Surgery. Assistant Attending Surgeon and Breast Surgeon, Memorial Hospital. A.B. 1949, Columbia University; M.D. 1953, New York University. (1964; 1974)
- Roberto De Paula, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. M.D. 1971, Universidade de Brasilia (Brazil). (1980)
- Gladys N. Teitelman de Pinczuk, Assistant Professor of Neurobiology in Neurology. Licenciada in Biology 1962, Universidad de Buenos Aires (Argentina); Ph.D. 1971, University of Pennsylvania. (1979; 1980)
- Richard J. Derman, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1962, Brooklyn College; M.D. 1966, Howard University; M.P.H. 1971, Johns Hopkins University.
- Armando R. Deschamps, Clinical Instructor in Surgery. Courtesy Staff, General Surgery, North Shore University Hospital. M.D. 1959, National University, Mexico City (Mexico). (1975)
- Eleanor E. Deschner, Associate Professor of Radiology (Radiobiology); Associate Professor of Radiobiology in Medicine. Associate Attending Radiobiologist, Gastroenterology Service, Memorial Hospital. B.A. 1949, Notre Dame College of Staten Island; M.S. 1951 and Ph.D. 1954, Fordham University. (1960; 1976)
- Anthony J. de Silva, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. M.B.B.S. 1964, University of Ceylon (Sri Lanka). (1973; 1974)
- Harold R. Dettelbach, Adjunct Assistant Professor of Physiology in Medicine. B.S. 1948, Roosevelt University; Ph.D. 1952, University of Berne (Switzerland). (1973; 1980)
- Richard B. Devereux, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital.

- B.A. 1967, Yale University; M.D. 1971, University of Pennsylvania. (1978)
- Mary M. Di Die, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1970, St. John's University; M.D. 1974, State University of New York. (1978)
- Mary V. Di Gangi, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital, A.B. 1960, Cornell University; M.D. 1964, Yale University. (1966; 1978)
- Cheryl B. Diamond, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. B.A. 1963, Swarthmore College; M.D. 1972, Medical College of Pennsylvania. (1975; 1976)
- Monroe T. Diamond, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale University; M.D. 1942, University of Virginia. (1945; 1965)
- Carlos Diaz-Matos, Clinical Assistant Professor of Psychiatry. Acting Chief, Division of Child Psychiatry, North Shore University Hospital, M.D. 1967. University of Santo Domingo (Dominican Republic). (1975; 1980)
- Robert W. Dickerman, Associate Professor of Microbiology, B.S. 1951, Cornell University; M.S. 1953, University of Arizona; Ph.D. 1961, University of Minnesota. (1962; 1973)
- Carolyn H. Diehl. Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1946 and M.D. 1950, Cornell University. (1952: 1966)
- Jakow G. Diener, Clinical Instructor in Medicine, Provisional Staff, North Shore University Hospital. B.A. 1969, Cornell University; M.D. 1973, State University of New York Downstate Medical Center. (1976; 1979)
- Oskar Diethelm, Emeritus Professor of Psychiatry Honorary Staff, New York Hospital. M.D. 1923, University of Berne (Switzerland); Honorary M.D. 1957, University of Zurich (Switzerland), (1936; 1962)
- J. Herbert Dietz, Associate Professor of Clinical Surgery. Attending Surgeon, Chief, Rehabilitation Service, Memorial Hospital. A.B. 1938, Columbia University: M.D. 1942. Cornell University. (1948:
- Alexandra Dimich, Assistant Professor of Medicine. Assistant Attending Physician, Endocrinology Service, Memorial Hospital. M.D. 1957, Medical School of Belgrade University (Yugoslavia). (1967; 1971)
- Peter Dineen, Professor of Surgery, Attending Surgeon, New York Hospital; Consultant in Surgery, North Shore University Hospital. M.D. 1947, Cornell University. (1948; 1972)
- David M. Dines, Clinical Instructor in Surgery. B.A. 1970, Lehigh University; M.D. 1974, New Jersey Medical School. (1975; 1980)
- Klaus Dittmar, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. M.D. 1957, University of Heidelberg (Germany). (1971; 1973)
- Steffi Dittmar, Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. M.D. 1960, Medical Academy, Düsseldorf (Germany).
- Jeffrey H. Dobken, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New

- York Hospital, B.A. 1966, University of Virginia: M.D. 1973. New York Medical College. (1976: 1978)
- John H. Doherty, Clinical Associate Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery, M.D. 1949. New York Medical College. (1958; 1972)
- Robert J. Doherty, Clinical Instructor of Dentistry in Psychiatry, Clinical Affiliate, New York Hospital, A.B. 1963 and D.D.S. 1969, New York University. (1978)
- John W. Dougherty, Clinical Professor of Medicine (Dermatology); Clinical Professor of Pathology. Attending Physician and Attending Pathologist, New York Hospital. B.S. 1941 and M.D. 1943, University of Minnesota. (1951; 1978)
- R. Gordon Douglas, Emeritus Professor of Obstetrics and Gynecology. Honorary Staff, New York Hospital. M.D.C.M. 1924, McGill University (Canada). (1932; 1965)
- Thomas L. Doyle, Clinical Assistant Professor of Psvchiatry, Assistant Attending Psychiatrist, New York Hospital, M.D. 1949, Cornell University, (1953; 1977)
- Suzanne C. Draghi, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1962, College of New Rochelle; M.D. 1966, State University of New York. (1968;
- John W. Draper, Emeritus Clinical Professor of Surgery. Attending Surgeon (Urology), New York Hospital. A.B. 1927, Dartmouth College; M.D. 1931, Cornell University. (1945; 1972)
- Dennis E. Drayer, Assistant Professor of Pharmacology. B.S. 1966, Brooklyn College; Ph.D. 1971, University of Delaware. (1975)
- Robert J. Dresdale, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1968, Brown University; M.D. 1972, Columbia University. (1978; 1980)
- Joseph C. Dreyfus III, Clinical Assistant Professor of Medicine, Assistant Attending Physician, New York Hospital. B.A. 1957, Lehigh University; M.D. 1968, Columbia University. (1969; 1980)
- Lloyd R. Dropkin, Clinical Assistant Professor of Otorhinolaryngology, Assistant Attending Otorhinolaryngologist, New York Hospital. B.S. 1966 and M.D. 1970, Cornell University. (1971; 1977)
- Lewis M. Drusin, Associate Professor of Clinical Medicine; Associate Professor of Public Health. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Infectious Disease Service, Memorial Hospital. B.S. 1960, Union College; M.D. 1964, Cornell University; M.P.H. 1974, Columbia University. (1968; 1979)
- Maurice L. Druzin, Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.B.B.Ch. 1970, University of the Witwatersrand (South Africa).
- Vincent du Vigneaud, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955 and M.D. 1959, Cornell University. (1965; 1973)
- Thomas Edward Duffy, Associate Professor of Biochemistry in Neurology; Assistant Professor of Biochemistry. B.S. 1962, Loyola College; Ph.D. 1967, University of Maryland. (1970; 1975)

- Charles R. Dunbar, Clinical Assistant Professor of Surgery, Attending Surgeon (Orthopedics), North Shore University Hospital, B.S. 1950 and M.D. 1954. Georgetown University. (1962; 1971)
- Howard S. Dunbar, Emeritus Clinical Professor of Surgery (Neurosurgery). A.B. 1941 and M.D. 1944, Cornell University. (1945; 1979)
- Jack Dunietz, Clinical Instructor of Psychiatry, Clinical Affiliate, New York Hospital. A.B. 1972, Cornell University: M.D. 1976. St. Louis University. (1977: 1980)
- Samuel Dunkell, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1946, Brooklyn College; M.D. 1954, University of Zurich (Switzerland). (1959; 1980)
- Andre Dupuis, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1957 and M.D. 1962, University of Montreal (Canada). (1976)
- John A. D'Urso, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Surgeon, Gynecology Service, Memorial Hospital. B.S. 1953 and M.D.C.M. 1958, McGill University (Canada). (1964)
- Murray Dworetzky, Clinical Professor of Medicine (Allergy). Attending Physician, New York Hospital. A.B. 1938, University of Pennsylvania; M.D. 1942, Long Island College of Medicine. (1951; 1966)
- Zofia E. Dziewanowska, Adjunct Assistant Professor of Psychiatry, M.D. 1963, University of Warsaw (Poland); Ph.D. 1969, Polish Academy of Science (Poland). (1977)
- Joan Gay Easton, Clinical Assistant Professor of Pediatrics. North Shore University Hospital, B.A. 1953, Syracuse University; M.D. 1957, New York Medical College. (1974; 1976)
- Adeleh Ebrahimzadeh, Visiting Professor of Parasitology in Medicine. Ph.D. University of Cologne (West Germany). (1979)
- William Eckerd, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1969, Wofford College; M.D. 1973, Bowman Gray School of Medicine. (1976; 1979)
- Martin J. Edelman, Assistant Professor of Radiology. Associate Attending Roentgenologist, Memorial Hospital. A.B. 1956 and M.D. 1960, Cornell University. (1965; 1973)
- Stuart R. Edelson, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist to Outpatients, New York Hospital. A.B. 1955, New York University; M.D. 1959, University of Louisville. (1965;
- Gloria T. Edis, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1963, New York University. (1971).
- Richard H. Edmundson, Clinical Assistant Professor of Anesthesiology. B.A. 1970 and M.D. 1974, Vanderbilt University. (1980)
- Adrian L. Edwards, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1955, Wagner College; M.D. 1960, Howard University. (1970; 1973)
- Charles C. Edwards, Adjunct Professor of Surgery. Honorary Staff in Surgery, New York Hospital. B.A. 1945 and M.D. 1948, University of Colorado; M.S. 1956, University of Minnesota. (1976)
- Jon H. Edwards, Assistant Professor of Radiology. B.S. 1967, University of Texas; M.D. 1971, Tulane University. (1979)

- K. David C. Edwards, Adjunct Associate Professor of Medicine. Adjunct Physician, Clinical Physiology and Renal Service, Memorial Hospital, M.B.B.S. 1953 and M.D. 1962, Sydney University (Australia). (1976; 1979)
- Kathryn H. Ehlers, Professor of Pediatrics. Attending Pediatrician, New York Hospital, B.A. 1953, Bryn Mawr College; M.D. 1957, Cornell University. (1959;
- Carol Ehnis, Clinical Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1965, Antioch College; Ph.D. 1977, New York University. (1980)
- Alvin N. Ehrlich, Clinical Associate Professor of Medicine. Assistant Attending Physician, Gastroenterology Service, Memorial Hospital. B.A. 1956, Lafayette College; M.D. 1960, State University of New York. (1965; 1979)
- Leonard I. Ehrlich, Clinical Professor of Pediatrics. Associate Attending Physician, North Shore University Hospital. B.S. 1934, City College of New York; M.D. 1938, New York University. (1971; 1979)
- Milton Eichler, Clinical Instructor in Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. M.D. 1949, Tulane University, (1972)
- Eli Einbinder, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.Sc 1965 and M.D. 1967, McGill University (Canada). (1971; 1979)
- Arthur Eisen, Clinical Assistant Professor of Psychiatry. Associate Attending Psychiatrist, North Shore University Hospital. B.A. 1953, New York University; M.D. 1957, Chicago Medical School. (1971; 1980)
- Morton S. Eisenberg, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, A.B. 1941 and M.D. 1944, Temple University. (1978)
- Sheldon Eisenman, Adjunct Assistant Professor of Psychiatry, B.A. 1955, New York University: M.D. 1959, Albert Einstein College of Medicine. (1976)
- William J. Eisenmenger, Clinical Professor of Medicine. Attending Physician, New York Hospital. B.S. 1937, Fordham University; M.D. 1941, Cornell University. (1955; 1975)
- Jahal Elahi, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. M.D. 1941, University of Tehran (Iran). (1978)
- Hamza El-Dorry, Assistant Professor of Biochemistry. B.Sc and M.Sc. 1970, Alexandria University (Egypt); Ph.D. (Biochemistry) 1972, Sao Paulo University (Brazil). (1979; 1980)
- Arthur C. Elias, Clinical Assistant Professor of Surgery (Oral). Assistant Attending Oral Surgeon, New York Hospital. D.M.D. 1967, Harvard University. (1977)
- Michael Elice, Clinical Instructor in Pediatrics. B.A. 1973, Syracuse University; M.D. 1976, Chicago Medical School. (1980)
- Leon Ellenbogen, Adjunct Professor of Nutrition in Medicine. B.S. 1949, City College of New York; M.S. 1951, New York University; Ph.D. 1954, Indiana University. (1979)
- George Caldwell Ellis, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1970, Brown University; M.D. 1974, Cornell University. (1975; 1980)
- John T. Ellis, Professor of Pathology (Chairman).

- Attending Pathologist, Memorial Hospital; Pathologist in Chief, Clinical Affiliate in Psychiatry, New York Hospital. B.A. 1942, University of Texas; M.D. 1945. Northwestern University. (1948: 1968)
- Robert M. Ellsworth, Professor of Ophthalmology, Attending Ophthalmologist, New York Hospital. A.B. 1948, Princeton University; M.D. 1952, Columbia University, (1979)
- Mary Allen Engle, Professor of Pediatrics. Attending Pediatrician, New York Hospital. B.A. 1942, Baylor University; M.D. 1945, Johns Hopkins University. (1948; 1969)
- Ralph L. Engle, Professor of Medicine; Professor of Public Health. Associate Director, Office of Research and Sponsored Programs. Attending Physician, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins University. (1949;
- Joseph T. English, Adjunct Professor of Psychiatry. A.B. 1954, St. Joseph's College; M.D. 1958, Thomas Jefferson University. (1975)
- Warren E. Enker, Associate Professor of Surgery. M.D. 1967. State University of New York. (1979)
- Joseph A. Epstein, Clinical Associate Professor of Surgery (Neurosurgery). Attending Surgeon (Neurosurgery), North Shore University Hospital. B.S. 1938, College of the City of New York; M.D. 1942, Long Island College of Medicine. (1971)
- Robert A. Erlandson, Assistant Professor of Pathology. Associate Attending Electron Microscopist, Memorial Hospital. B.A. 1959, New York University; M.S. 1963, Long Island University; Ph.D. 1969, Cornell University. (1972)
- Herbert L. Erlanger, Clinical Associate Professor of Anesthesiology. Associate Attending Anesthesiologist, New York Hospital. A.B. 1945 and M.D. 1949, Columbia University. (1957; 1972)
- Steven M. Erlanger, Clinical Instructor in Surgery, B.A. 1964, Johns Hopkins University; M.D. 1968, New York Medical College. (1977)
- Henry Erle, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1950 and M.D. 1954, Cornell University (1955; 1970)
- Michael J. Errico, Clinical Instructor in Surgery, Senior Assistant Attending Surgeon (Orthopedics), North Shore University Hospital. A.B. 1961, Yale University: M.D. 1965, Cornell University. (1969; 1973)
- Ernest R. Esakof, Clinical Assistant Professor of Medicine. Associate Attending Physician, Cardiopulmonary Service, Memorial Hospital. M.B.B.Ch. 1952, University of the Witwatersrand (South Africa). (1957: 1979)
- Aaron H. Esman, Professor of Clinical Psychiatry. Attending Psychiatrist, New York Hospital, B.A. 1944 and M.D. 1947, Columbia University. (1979)
- Edwin Ettinger, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital, A.B. 1955, Columbia College; M.D. 1962, Cornell University. (1963; 1975)
- John A. Evans, Emeritus Professor of Radiology. Attending Radiologist, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell University. (1950; 1979)
- Kenneth A. Ewing, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1955, Instituto Modelo; M.D.

- 1963, Universidad de San Carlos (Guatemala). (1968; 1971)
- Philip R. Exelby, Professor of Surgery. Attending Surgeon, Chief, Pediatric Surgical Service, Memorial Hospital, B.A. 1951 and M.A. 1952, Queen's College, Oxford (England); B.M.B.Ch. 1954, Oxford University (England). (1967; 1980)
- Aldo Faga, Clinical Instructor in Medicine. Clinical Affiliate, Department of Medicine, New York Hospital. M.D. 1958, University of Rome (Italy). (1977)
- Thomas J. Fahev. Associate Professor of Clinical Medicine. Associate Attending Physician, New York Hospital. Attending Physician, Department of Medicine, Memorial Hospital. B.A. 1955, Fordham University: M.D. 1959, Cornell University, (1962: 1979)
- C. Theodore Failmezger, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital, A.B. 1962, Dartmouth College: M.D. 1966. Northwestern University. (1974; 1977)
- Gordon F. Fairclough, Associate Professor of Clinical Biochemistry. B.A. 1960 and Ph.D. 1966, Yale University. (1968; 1979)
- George A. Falk, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1960 and M.D. 1964, Harvard University. (1968; 1973)
- Katherine Falk, Clinical Instructor in Psychiatry. Clinical Affiliate in Medicine, New York Hospital. A.B. 1966, Barnard College; M.D. 1970, Mount Sinai School of Medicine. (1975; 1976)
- Kenneth A. Falvo, Clinical Instructor in Surgery. Orthopedic Resident, Hospital for Special Surgery. B.S. 1964 and M.D. 1968, State University of New York. (1972: 1975)
- Gholamali Farahani, Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. M.D. 1965, Tehran University (Iran). (1971; 1973)
- Barry Farber, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1967, Johns Hopkins University; M.D. 1971, New York University. (1980)
- Stanley Farber, Clinical Assistant Professor of Medicine. Attending Physician, North Shore University Hospital. A.B. 1945, Columbia College; M.D. 1948, New York Medical College. (1971; 1973)
- Hollon W. Farr, Clinical Associate Professor of Surgery. Assistant Attending Surgeon, New York Hospital; Attending Surgeon, Head and Neck Service, Memorial Hospital. B.S. 1939, Yale University; M.D. 1942, Harvard University. (1952; 1979)
- Robert B. Fath, Clinical Assistant Professor of Medicine in Psychiatry. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell University. (1949, 1971)
- Aaron Feder, Clinical Professor of Medicine. Attending Physician, New York Hospital. Consultant, North Shore University Hospital. M.D. 1938, University of Maryland. (1941; 1965)
- Samuel L. Feder, Professor of Clinical Psychiatry. Attending Psychiatrist, New York Hospital. A.B. 1937 and M.D. 1941, Harvard University. (1975; 1979)
- Stuart Feder, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Johns Hopkins University; M.A. 1953, Harvard University; M.A. 1961, Albert Einstein College of Medicine. (1976)

- Joel S. Feigenson, Clinical Assistant Professor of Neurology. B.A. 1965, Columbia University; M.D. 1969, New York University. (1979)
- Arthur W. Feinberg, Professor of Clinical Medicine. Chief, Division of Ambulatory Medicine, Department of Medicine; Attending Physician, North Shore University Hospital. A.B. 1943 and M.D. 1945, Columbia University. (1970; 1979)
- Daniel Feinberg, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.S. 1958, Tufts University; M.D. 1962, University of Pennsylvania. (1977)
- Joseph Feinberg, Clinical Instructor in Surgery (Plastic). Clinical Affiliate, Department of Surgery, New York Hospital. B.A. 1969 and M.D. 1973, Cornell University. (1979)
- Steven Feinstein, Clinical Assistant Professor of Psychiatry. Senior Assistant Attending Psychiatrist. North Shore University Hospital. B.A. 1962, Columbia University; M.D. 1966, State University of New York. (1975; 1978)
- George B. Feldman, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. S.B. 1967, Massachusetts Institute of Technology; M.D. 1971, Harvard Medical School. (1975; 1978)
- Alfred J. Felice, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. A.B. 1955 and M.D. 1959, Cornell University. (1970; 1976)
- Colin Fell, Associate Professor of Physiology. B.A. 1951, Antioch College: M.S. 1953 and Ph.D. 1957. Wayne State University. (1962; 1971)
- Sidney Fenig, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital, B.S. 1953, City College of New York; M.D. 1959, Yeshiva University. (1978)
- Jeanne E. Fenner, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1957, New York University; M.D. 1964, Free University of Brussels (Belgium). (1978)
- Herbert Fensterheim, Clinical Associate Professor of Psychology in Psychiatry. Associate Attending Psychologist, New York Hospital. B.A. 1941, New York University; M.A. 1942, Columbia University; Ph.D. 1958, New York University. (1972)
- Arnold N. Fenton, Professor of Obstetrics and Gynecology. B.A. 1941, Lafayette College; M.D. 1944, Columbia University. (1971; 1975)
- Ezra H. Feuer, Assistant Professor of Psychiatry. Psychiatrist, New York Hospital. B.A. 1970, Yeshiva University; M.D. 1974, New York Medical College. (1976; 1980)
- Neil Fidel, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1962, St. Lawrence University; M.D. 1967, Chicago Medical School. (1971; 1974)
- Kenvon Field, Assistant Professor of Biochemistry (Surgery). Assistant Professor of Biochemistry. Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1970, Upsala College; M.D. 1974, New Jersey College of Medicine. (1977; 1980)
- Howard Fillit, Instructor in Medicine; Instructor in Surgery (Medicine and Biochemistry). Clinical Affil-

- iate (Medicine), New York Hospital, B.A. 1970, Cornell University; M.D. 1974, State University of New York. (1979; 1980)
- John A. Finkbeiner, Clinical Assistant Professor of Medicine. Associate Attending Physician, Lymphoma Service, Memorial Hospital. B.S. 1939, University of Pittsburgh; M.D. 1942, Western Reserve University. (1955; 1961)
- Joseph Finkelstein, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1970, Hofstra University; M.D. 1974, Cornell University. (1975; 1978)
- William F. Finn, Clinical Associate Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1936, Holy Cross College; M.D. 1940, Cornell University. (1942; 1971)
- Adolfo Firpo-Betancourt, Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital. B.S. 1972, Long Island University; M.D. 1976, State University of New York. (1977;
- Zulema Fischbarg, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1960, University of Buenos Aires (Argentina). (1978)
- Lawrence A. Fish, Clinical Instructor in Surgery (Urology). B.A. 1964, Alfred University; M.S. 1966, Adelphi University; M.D. 1972, University of Bologna (Italy). (1979)
- Paula Fischella, Clinical Instructor of Physics in Radiology. B.S. 1973, College of Mount St. Vincent; M.S. 1970, University of Colorado. (1980)
- Bernard Fisher, Clinical Associate Professor of Psychology in Psychiatry. B.S. 1948, Long Island University; M.A. 1949 and Ph.D. 1953, New York University. (1963; 1979)
- Michael J. Fisher, Clinical Instructor in Medicine. Clinical Affiliate, Department of Medicine, New York Hospital. B.A. 1969, New York University; M.D. 1973, University of Cincinnati. (1978)
- Ross Fishman, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.B.A. 1961, City College of New York; M.S. 1964 and Ph.D. 1968, University of Pittsburgh. (1978)
- Patrick J. Fitzgerald, Professor of Pathology. Attending Pathologist, New York Hospital; Attending Pathologist, Memorial Hospital. B.S. 1936, University of Massachusetts; M.D. 1940, Tufts University. (1966;
- Robert J. Fitzgerald, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1956, Fordham University; M.D. 1960, New York Medical College. (1966; 1971)
- Frederic F. Flach. Adjunct Associate Professor of Psychiatry. Attending Psychiatrist, New York Hospital. B.A. 1947, St. Peter's College; M.D. 1951, Cornell University. (1954; 1977)
- Maria F. Fleetwood, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1941, University of Chile. (1948;
- Betty J. Flehinger, Adjunct Professor of Biostatistics in Public Health. A.B. 1941, Barnard College; M.A.

- 1942, Cornell University; Ph.D. 1960, Columbia University. (1975)
- George W. Flint, Clinical Assistant Professor of Surgery, Senior Assistant Attending Surgeon, North Shore University Hospital. B.A. 1941, Ohio State University; M.D. 1944, Long Island College of Medicine. (1977; 1978)
- Carlos D. Flombaum, Assistant Professor of Medicine. Assistant Attending Physician, Department of Medicine, Clinical Physiology and Renal Service, Memorial Hospital. B.A. 1961 and M.D. 1969, University of Buenos Aires (Argentina). (1978)
- Barbara L. Flye, Clinical Instructor of Psychology in Psychiatry. B.A. 1966, Beloit College; M.A. 1967, University of California at Los Angeles; Ph.D. 1974, Columbia University. (1978)
- John T. Flynn, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1937, Fordham University; M.D. 1942, Cornell University. (1948; 1964)
- William F. Flynn, Clinical Assistant Professor in Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital. B.A. 1956, Fordham University; M.D. 1960, New York Medical College. (1966; 1974)
- Kathleen Maher Foley, Associate Professor of Neurology. Assistant Attending Neurologist, New York Hospital. Assistant Attending Physician, Memorial Hospital. B.A. 1965, St. John's University; M.D. 1969, Cornell University. (1970; 1979)
- William T. Foley, Emeritus Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia University; M.D. 1937, Cornell University. (1946; 1976)
- Roland Foraste, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1960, Holy Cross College; M.D. 1965, State University of New York Downstate Medical Center. (1967; 1979)
- Claude E. Forkner, Jr., Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1949, Harvard University; M.D. 1954, Cornell University. (1960; 1969)
- Claude E. Forkner, Sr., Emeritus Clinical Professor of Medicine. Honorary Staff, New York Hospital. A.B. 1922 and A.M. 1923, University of California; M.D. 1926, Harvard University. (1937; 1966)
- Arnold W. Forrest, Clinical Instructor of Ophthalmology in Psychiatry, Clinical Affiliate, Department of Psychiatry, New York Hospital. A.B. 1939, Columbia College; M.D. 1942, New York University. (1977)
- Pavel Fort, Assistant Professor of Pediatrics. Associate Endocrinologist, North Shore University Hospital. M.D. 1969, Charles University (Czechoslovakia). (1978)
- Richard L. Fort, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1970 and M.D. 1977, University of Virginia. (1978; 1980)
- Joseph G. Fortner, Professor of Surgery. Associate Chairman for Clinical Affairs, Memorial Hospital. Attending Surgeon; Chief, Gastric and Mixed Tumor Service; Chief, Transplantation Service, Memorial Hospital, B.S. 1944 and M.D. 1945, University of Illinois. (1954; 1972)
- Marilena Fotino, Assistant Professor of Clinical Biochemistry. M.D. 1951 and Ph.D. (Hematology) 1965, Institute of Medicine and Pharmacy. (1974; 1979) John L. Fox, Clinical Assistant Professor of Anesthesi-

- ology. B.S. 1939, St. John's College; M.D. 1943, New York Medical College. (1965; 1973)
- Alfred A. Fracchia, Clinical Associate Professor of Surgery, Attending Surgeon, Breast Service, Memorial Hospital. B.S. 1937, Villanova College; M.D. 1941, Georgetown University. (1957; 1975)
- John A. Fracchia, Clinical Assistant Professor of Surgery (Urology). Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1968, Belmont Abbey College; M.D. 1973, New Jersey College of Medicine. (1974; 1979)
- Allen J. Frances, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1963, Columbia University; M.D. 1967, State University of New York. (1975; 1979)
- Richard J. Frances, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1967, Columbia University; M.D. 1971, New York University. (1976)
- William M. Frank, Clinical Instructor in Medicine. B.S. 1968, Loras College; M.D. 1972, State University of lowa. (1980)
- Alice K. Frankel, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, Oberlin College; M.D. 1953, Columbia University. (1977; 1978)
- John E. Franklin, Assistant Professor of Clinical Medicine in Physiology; Assistant Professor of Medicine; Assistant Professor of Pharamcology. Assistant Attending Physician, New York Hospital. A.B. 1962, Williams College; M.D. 1966, Cornell University. (1973; 1978)
- Stephen L. Frantz, Clinical Assistant Professor of Surgery. Senior Assistant Attending Surgeon (Thoracic), North Shore University Hospital. B.A. 1958, Colgate University; M.D. 1962, State University of New York. (1972; 1976)
- Richard A. R. Fraser, Associate Professor of Surgery (Neurosurgery). Associate Attending Surgeon, Neurosurgery, New York Hospital. M.D. 1961, University of British Columbia (Canada). (1974)
- William W. Frayer, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1966, M.S. 1968 and M.D. 1972, Cornell University. (1973; 1976)
- Mio Fredland, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1952, Columbia University; M.D. 1961, University of Geneva (Switzerland). (1969; 1973)
- Robert H. Freiberger, Professor of Radiology. Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts University. (1956; 1972)
- Alvin H. Freiman, Clinical Associate Professor of Medicine. Attending Physician, Cardiopulmonary Service, Memorial Hospital, B.A. 1947, New York University; M.S. 1949, University of Illinois; M.D. 1953, New York University. (1958; 1967)
- Myron E. Freund, Clinical Assistant Professor of Surgery. Associate Attending Surgeon (Urology), North Shore University Hospital. A.B. 1955, Princeton University: M.D. 1959, New York Medical College. (1964; 1978)
- Richard H. Freyberg, Emeritus Clinical Professor of Medicine. Honorary Staff, New York Hospital. B.A. 1926; M.D. 1930, and M.S. 1934, University of Michigan. (1945; 1969)

- Allan Fried, Clinical Instructor in Medicine, Assistant Attending Physician, North Shore University Hospital. M.D. 1962, State University of New York. (1976)
- Maxine H. Fried, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1959, New York University; M.D. 1963, State University of New York. (1976)
- Jeffrey Friedman, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S.E. 1968, University of Michigan; M.D. 1973, Albert Einstein College of Medicine. (1974; 1978)
- Lawrence Friedman, Clinical Associate Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. Ph.B. 1949 and M.A. 1952, University of Chicago; M.D. 1955, Temple University School of Medicine. (1975; 1979)
- Richard C. Friedman, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1961, Bard College; M.D. 1966, University of Rochester. (1977)
- Gustavo Frindt, Assistant Professor of Physiology. M.D. 1963, University of Chile. (1978)
- Marvin P. Frogel, Clinical Assistant Professor of Psychiatry. Associate Attending Psychiatrist, North Shore University Hospital. A.B. 1957, Bowdoin College; M.D. 1963, University of Geneva (Switzerland). (1972; 1977)
- Vivian Fromberg, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1946, Western Reserve University; M.D. 1951, Women's Medical College of Pennsylvania. (1975)
- Allan Frosch, Clinical Instructor of Psychology in Psychiatry. Professional Associate in Psychiatry, New York Hospital. B.S. 1960, University of Alabama; Ph.D. 1977, City University. (1980)
- William A. Frosch, Professor of Psychiatry, Medical Director, Payne Whitney Psychiatric Clinic; Attending Psychiatrist, New York Hospital. A.B. 1953, Columbia College; M.D. 1957, New York University.
- Anna-Riitta Fuchs, Associate Professor of Reproductive Biology in Obstetrics and Gynecology; Clinical Associate Professor of Physiology. M.Sc. 1950, University of Helsinki (Finland); D.Sc. 1978, University of Copenhagen (Denmark). (1970; 1977)
- Fritz F. Fuchs, Harold and Percy Uris Professor of Reproductive Biology; Professor of Obstetrics and Gynecology. Obstetrician and Gynecologist in Chief, New York Hospital, M.D. 1944 and Dr. Med. Sci. 1957, University of Copenhagen (Denmark).
- Toru Fukubayashi, Instructor in Applied Biomechanics in Surgery. M.D. 1972, University of Tokyo (Japan). (1979)
- Arthur N. Gabriel, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, New York University; M.D. 1957, Emory University. (1977)
- Joseph Henry Galicich, Professor of Surgery, Associate Attending Surgeon (Neurosurgery), New York Hospital; Attending Surgeon, Chief, Neurosurgical Service, Memorial Hospital. A.B. 1954, Stanford University; M.D. 1957, Harvard University. (1972; 1980)
- Pamela Marie Gallagher, Clinical Instructor in Surgery (Plastic). Clinical Affiliate, New York Hospital. B.A.

- 1970, Hofstra University; M.D. 1974, University of Chicago. (1975; 1979)
- Gerald M. Galvin, Clinical Assistant Professor of Surgery (Dentistry). Associate Attending Dentist (Prosthodontists), B.S. 1952, St. John's University: D.D.S. 1956, Columbia University. (1977)
- Francis W. Gamache, Assistant Professor of Surgery. Surgeon, New York Hospital. B.A. 1969, Wesleyan University; M.D. 1972, Cornell University. (1974; 1979)
- David Ganeles, Clinical Instructor of Psychiatry, B.A. 1972, Yeshiva University; M.D. 1975, New York Medical College. (1980)
- Robert I. Ganeles, Clinical Assistant Professor of Psychiatry. Associate Attending Psychiatrist, North Shore University Hospital, B.S. 1950, Brooklyn College; M.D. 1954, Baylor University. (1972; 1977)
- Daniel Gardner, Associate Professor of Physiology. A.B. 1966, Columbia College; Ph.D. 1971, New York University. (1973; 1979)
- Henry F. Gardstein, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. A.B. 1966, Franklin and Marshall College; M.D. 1970, George Washington University. (1971; 1978)
- Martin Gardy, Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Hospital for Special Surgery, B.S. 1956, City College of New York; M.D. 1960, Cornell University. (1961; 1972)
- Diane B. Gareen, Clinical Assistant Professor of Pediatrics. Associate Attending Surgeon, New York Hospital. B.A. 1949, New York University; M.D. 1953, New York Medical College. (1956; 1971)
- Burton Garfinkel, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1952, University of Buffalo; M.D. 1956, Chicago Medical School. (1973)
- B. Milton Garfinkle, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. A.B. 1941 and M.D. 1943, University of Pennsylvania. (1972)
- Gary M. Gartsman, Instructor in Surgery. A.B. 1971, University of California; M.D. 1975, University of Chicago. (1976; 1978)
- Ronald J. Garutti, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1967, Rutgers University; M.D. 1971, Georgetown University. (1978)
- Jerald D. Gass, Associate Professor of Clinical Biochemistry. B.S. 1957, University of Oklahoma; M.A. 1962, Harvard University; Ph.D. 1970, Cornell University. (1972; 1979)
- James P. Gaston, Clinical Instructor in Surgery. Assistant Attending Surgeon, New York Hospital. B.A. 1954, Bowdoin College; M.D. 1958, McGill University (Canada). (1970; 1973)
- Ralph W. Gause, Emeritus Clinical Professor of Obstetrics and Gynecology. Consultant, New York Hospital. M.D. 1930, Harvard University. (1940;
- William A. Gay, Professor of Surgery. Attending Surgeon-in-Charge, New York Hospital. B.A. 1957, Virginia Military Institute; M.D. 1961, Duke University. (1971; 1978)

- Sheldon Gaylin, Professor of Clinical Psychiatry. Attending Psychiatrist, New York Hospital. Ph.D. 1949, University of Chicago; M.D. 1953, Western Reserve University. (1976; 1979)
- Michael Saunders Gazzaniga, Professor of Neuropsychology in Neurology. Professional Staff Associate, New York Hospital. A.B. 1961, Dartmouth College: Ph.D. 1964, California Institute of Technology. (1976;
- Timothy S. Gee, Associate Professor of Clinical Medicine. Associate Attending Physician, Hematology-Lymphoma Service, Memorial Hospital, A.B. 1956, University of California at Berkeley; M.D. 1960, University of California at San Francisco. (1967; 1979)
- Alan C. Geiss, Assistant Professor of Surgery, Assistant Attending Surgeon, North Shore University Hospital. B.A. 1966, Alfred University; M.D. 1970, Chicago Medical School. (1978)
- Philip M. Gelber. Clinical Instructor of Medicine. Assistant Attending Physician, North Shore University Hospital. A.B. 1967 and M.D. 1971, University of Chicago. (1979)
- Bennett L. Gemson, Clinical Associate Professor of Pediatrics. B.A. 1941 and M.D. 1944, Cornell University. (1973)
- Elias H. Gerchick, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, City College of New York; M.D. 1939, New York University. (1976)
- James L. German, Clinical Professor of Pediatrics (Human Genetics); Clinical Professor of Medicine. Attending Pediatrician, New York Hospital; Senior Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern Medical College. (1963; 1976)
- Frank P. Gerold, Clinical Instructor in Surgery. Associate Attending Surgeon, Head and Neck Service, Memorial Hospital, B.S. 1942, Saint John's University; M.D. 1945, New York University. (1958; 1961)
- Wilbur Gershenson, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. B.S. 1936, College of the City of New York; M.D. 1940, Long Island College of Medicine. (1977)
- Fereshteh Ghavimi, Associate Professor of Clinical Pediatrics. Associate Attending Pediatrician, Memorial Hospital. M.D. 1961, Tehran University (Iran). (1970; 1980)
- Bernard Ghelman, Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiologist, Hospital for Special Surgery, B.S. 1958, Andrews College (Brazil); M.D. 1963, University of Brazil. (1969)
- Andrea C. Giardina, Instructor in Pediatrics. Pediatrician to Outpatients, New York Hospital. B.A. 1962, Douglass College; M.D. 1966, New York Medical College. (1969; 1972)
- Patricia J. V. Giardina, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1968, New York Medical College.
- James G. Gibbs, Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. 1960, Trinity College; M.D. 1964, Medical College of South Carolina. (1969; 1978)
- Allan Gibofsky, Assistant Professor of Medicine. Clinical Fellow, New York Hospital. B.S. 1969, Brooklyn College: M.D. 1973, Cornell University, (1979)

- Gary Eugene Gibson, Assistant Professor of Biochemistry in Neurology. B.S. 1968, University of Wyoming; Ph.D. 1973, Cornell University. (1978)
- Michael Gilbert, Clinical Assistant Professor of Pediatrics. Attending Pediatrician, North Shore University Hospital. B.A. 1940, Washington and Lee University; M.D. 1944, New York University. (1973)
- Helena Gilder, Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry (Surgery). Clinical Affiliate in Surgery; Research Associate (Biochemistry), New York Hospital. A.B. 1935. Vassar College; M.D. 1940, Cornell University. (1946; 1964)
- Eugene Gillman, Clinical Instructor of Medicine. Provisional Staff, North Shore University Hospital, B.A. 1972 and M.D. 1976, New York University. (1979)
- Sander L. Gilman, Professor of History in Psychiatry. B.A. 1963 and Ph.D. 1968, Tulane University. (1978)
- Karen J. Gilmore, Instructor of Clinical Psychiatry (Child). Assistant Psychiatrist, New York Hospital. B.A. 1969, Radcliffe College; M.A. 1973 and M.D. 1977, New York University. (1978; 1980)
- Margaret M. Gilmore, Assistant Professor of Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1968, Smith College; M.D. 1972, University of Pennsylvania. (1975; 1979)
- Fakhry Gindi Girgis, Associate Professor of Anatomy. M.D. and B.Ch. 1949, Cairo University; Ph.D. 1957 Queen's University (Northern Ireland). (1969; 1975)
- Allan B. Gistrak, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1953 and M.D. and C.M. 1957, McGill University (Canada). (1975)
- Joel S. Gitlin, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1954, Union College; M.D. 1958, Chicago Medical School. (1971; 1975)
- William P. Given, Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard University; M.D. 1944, Cornell University. (1969; 1971)
- Silva Gjivoje, Instructor of Radiology. M.D. 1963, University for Medical Sciences of Zagreb (Yugoslavia). (1980)
- Wilma Gladstone, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955, Mount Holyoke College; M.D. 1961, New York Medical College. (1971; 1972)
- Richard Glass, Clinical Associate Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1952, Princeton University; M.D. 1956, Johns Hopkins University. (1975; 1979)
- Walter M. Glass, Clinical Associate Professor of Otorhinolaryngology. B.S. 1939 and M.D. 1943, University of Vermont. (1971; 1973)
- Howard I. Glazer, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1969, University of Toronto (Canada); Ph.D. 1972, University of Texas. (1977)
- Arnold F. Glendinning, Clinical Assistant Professor of Surgery. Senior Assistant Attending Surgeon (Pediatric Surgery), North Shore University Hospital. A.B. 1954, Harvard University; M.D. 1961, Cornell University. (1966; 1975)
- Frank Glenn, Emeritus Professor of Surgery. Attending

- Surgeon, New York Hospital. M.D. 1927, Washington University School of Medicine. (1932; 1968)
- Ira Glick, Professor of Psychiatry. Attending Psychiatrist, New York Hospital. B.S. 1957, Dickinson College; M.D. 1961, New York Medical College. (1978)
- David L. Globus, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1951 and M.D. 1954, Washington University School of Medicine. (1958; 1975)
- David Gluck, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1953 and M.D. 1957, Cornell University. (1964;
- John M. Glynn, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1945, Yale University; M.D. 1947, Long Island College of Medicine. (1970; 1972)
- Edmond A. Goidl, Assistant Professor of Immunology in Medicine. M.S. 1971, American University; Ph.D. 1974, Cornell University. (1971; 1977)
- Robert B. Golbey, Associate Professor of Clinical Medicine. Attending Physician, Chief, Solid Tumor Service, Memorial Hospital, B.S. 1943, Bethany College; M.D. 1949, New York University. (1957; 1979)
- Alan H. Gold, Clinical Instructor in Surgery. B.A. 1967, Colgate University; M.D. 1971, State University of New York Downstate Medical Center. (1972; 1979)
- Jonathan Gold, Assistant Professor of Medicine. Assistant Attending Physician, Infectious Diseases, Memorial Hospital. M.D. 1971, Columbia University. (1974; 1978)
- Richard L. Gold, Adjunct Assistant Professor of Psychiatry. B.S. 1954 and M.A. 1955, Brooklyn College; M.D. 1959, Albany Medical College. (1979)
- Burton H. Goldberg, Clinical Associate Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.A. 1947 and M.D. 1951, New York University. (1971; 1979)
- Doris K. Goldberg, Clinical Associate Professor of Pediatrics. Clinical Affiliate, New York Hospital. B.A. 1953, Vassar College; M.D. 1957, New York University. (1964; 1978)
- Herbert M. Goldberg, Assistant Professor of Radiology. Assistant Attending Radiologist, North Shore University Hospital. B.A. 1962, Brooklyn College; M.D. 1966, Albert Einstein College of Medicine. (1972;
- Marc Goldberg, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1965, University of Virginia; M.D. 1969, Medical College of Virginia. (1977)
- Robert E. Goldberger, Clinical Instructor in Surgery. B.S. 1958 and M.D. 1962, Tufts University, (1977)
- Sidney Goldenshon, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1942 and M.D. 1944, George Washington University. (1979)
- Deborah A. Goldfarb, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. A.B. 1972, Radcliffe College; M.D. 1976, Cornell University. (1979; 1980)
- Howard Goldin, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1957, Amherst College; M.D. 1961, Cornell University. (1962; 1975)
- Paul L. Gordiner, Associate Professor in Anesthesiology. Attending Anesthesiologist; Associate Attend-

- ing Roentgenologist, Memorial Hospital. B.A. 1952, University of Michigan; D.D.S. 1955, Northwestern University; M.D. 1965, New York University. (1967;
- Abe A. Goldman, Clinical Assistant Professor of Psychiatry. B.A. 1937, University of Michigan; M.D. 1941, New York University; M.S. 1948, University of Michigan. (1980)
- Amy Beth Goldman, Associate Professor of Radiology. Associate Attending Radiologist, New York Hospital. B.S. 1966 and M.D. 1969, New York University. (1975; 1978)
- Mitchell A. Goldman, Assistant Professor of Radiology. B.A. 1965, Queens College; M.D. 1969, Columbia University. (1976; 1979)
- Edward I. Goldsmith, Professor of Surgery. Attending Surgeon, New York Hospital. A.B. 1947 and M.D. 1950, Cornell University. (1954; 1972)
- Jack Goldstein, Associate Professor of Biochemistry. Investigator, New York Blood Center. B.S. 1952, Long Island University; M.N.S. 1957 and Ph.D. 1959, Cornell University. (1968)
- Jonathan E. Goldstein, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S.E.E. 1968, University of Pennsylvania; M.D. 1973, New Jersey Medical School. (1978)
- Judith Goldstein, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital, B.S. 1968, City College of New York; M.D. 1972, State University of New York. (1975; 1979)
- Michael J. Goldstein, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.S. 1956, Queens College; M.D. 1961, Albert Einstein College of Medicine. (1964; 1972)
- Sheldon Golub, Clinical Instructor in Psychiatry. Active Staff, North Shore University Hospital. A.B. 1959, Columbia University; M.D. 1963, State University of New York. (1972)
- Robert A. Good, Professor of Medicine; Professor of Pediatrics; Professor of Pathology, Graduate School of Medical Sciences. Attending Pediatrician, New York Hospital; Attending Physician and Co-Chief, Clinical Immunology Service, Department of Medicine; Attending Pediatrician, Memorial Hospital; President and Director of Sloan-Kettering Cancer Research Center. B.A. 1944, M.D. 1947 and Ph.D. 1947, University of Minnesota. (1973)
- Gwyneth J. Goodfield, Adjunct Associate Professor of Biomedical Science and Social Policy in Medicine. B.Sc. 1949, University of London (England); Ph.D. 1959, University of Leeds (England). (1977)
- Ruth K. Goodman, Assistant Professor of Social Work in Psychiatry. Director of Social Service, Departmen of Psychiatry, New York Hospital. B.A. 1937, Smith College; Diploma (M.S.W. equivalent) 1939, New York School of Social Work. (1975)
- Warren H. Goodman, Adjunct Assistant Professor of Psychiatry. B.A. 1955, Columbia University; M.D. 1959, State University of New York Downstate Medical Center. (1980)
- Charles H. Goodrich, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1947, Princeton University; M.D. 1951, Harvard University. (1957; 1976)
- Jeffrey H. Gordon, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North

- Shore University Hospital. B.A. 1963, Amherst College; M.D. 1965, Cornell University. (1966; 1976)
- Lawrence A. Gordon, Clinical Assistant Professor of Surgery, Senior Assistant Attending Surgeon, North Shore University Hospital. A.B. 1960, New York University; M.D. 1964, State University of New York. (1974: 1978)
- Ronald Gordon, Instructor of Clinical Psychiatry, B.A. 1973, New York University; M.D. 1977, State University of New York Upstate Medical Center. (1980)
- Samuel L. Gordon, Clinical Instructor of Otorhinolaryngology in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. B.S. 1938 and M.D. 1941, Emory University. (1977)
- Lewis C. Gordonson, Clinical Instructor in Ophthalmology. Staff member, North Shore University Hospital. B.S. 1954, Ohio State University; M.D. 1963, State University of New York. (1973)
- George W. Gorham, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1950, Yale University; M.D. 1954, Johns Hopkins University. (1960; 1972)
- Rosemary V. Gorman, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1939, Trinity College; M.D. 1943, Cornell University. (1944; 1976)
- James E. Gorney, Clinical Assistant Professor of Psychology in Psychiatry. M.A. 1964, Syracuse University; Ph.D. 1968, University of Chicago. (1980)
- Janusz G. Gorzynski, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1963, Academy of Medicine (Poland). (1978)
- Leonard T. Goslee, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1958, Meharry Medical College. (1979)
- Mary E. W. Goss, Professor of Sociology in Public Health; B.A. 1947 and M.A. 1948, State University of lowa; Ph.D. 1959, Columbia University. (1959; 1973)
- Eugene L. Gottfried, Associate Professor of Medicine; Associate Professor of Pathology. Associate Attending Physician and Pathologist; Director Clinical Hematology Laboratory, New York Hospital. A.B. 1950 and M.D. 1954, Columbia University. (1969; 1975)
- Geoffrey Jon Gottlieb, Instructor in Pathology. Assistant Attending Pathologist, New York Hospital. A.B. 1972 and M.D. 1976, Cornell University. (1979)
- Vincent P. Gotz, Instructor in Pharmacology, B.S. 1972, University of Wisconsin; M.S. 1974, Purdue University. (1978)
- Eric F. Gould, Clinical Instructor in Pediatrics. North Shore University Hospital Staff. A.B. 1966, Columbia College; M.D. 1970, New York Medical College.
- Dicran Goulian, Professor of Surgery (Plastic). Attending Surgeon in Charge (Plastic Surgery), New York Hospital, A.B. 1948 and D.D.S. 1951, Columbia University; M.D. 1955, Yale University. (1958; 1974)
- Antonio F. Govoni, Associate Professor of Radiology. Associate Attending Radiologist, New York Hospital. M.D., 1945, University of Modena (Italy). (1971;
- Edward A. Graber, Professor of Clinical Obstetrics and Gynecology, Attending Obstetrician and Gynecolo-

- gist, New York Hospital. M.D. 1936, Emory University. (1973; 1979)
- Robert W. Grady, Assistant Professor of Pharmacology in Pediatrics, B.S. 1963, Brown University: Ph.D. 1971, University of Minnesota. (1979)
- William R. Grafe, Professor of Surgery. Attending Surgeon, New York Hospital. A.B. 1951, Harvard University; M.D. 1955, New York University. (1956; 1979)
- Jerold B. Graff, Clinical Assistant Professor of Medicine-Dermatology. Clinical Affiliate, New York Hospital. A.B. 1964, Princeton University; M.D. 1968, Cornell University. (1977; 1980)
- Bernice Grafstein, Professor of Physiology. B.A. 1951, University of Toronto; Ph.D. 1954, McGill University (Canada). (1969; 1973)
- Martin Graham, Assistant Professor of Physics in Radiology. Assistant Attending Physicist, Department of Medical Physics, Memorial Hospital, B.S. 1965, Massachusetts Institute of Technology: Ph.D. 1973, University of Massachusetts. (1978)
- Richard J. Gralla, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. A.B. 1969, Brown University; M.D. 1972, University of Virginia. (1975; 1977)
- Roger B. Granet, Clinical Instructor in Psychiatry, Clinical Affiliate, Department of Psychiatry, New York Hospital. B.A. 1970, New York University; M.D. 1974, New Jersey College of Medicine and Dentistry.
- Armando Grassi, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1970, University of Buenos Aires (Argentina).
- George F. Gray, Professor of Pathology. Attending Pathologist, New York Hospital. B.A. 1956, University of Texas; M.D. and M.S. 1961, Baylor University. (1967; 1977)
- Robert S. Grayson, Clinical Associate Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1950 and M.D. 1953, Cornell University. (1975; 1979)
- Harry Green, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, North Shore University Hospital. M.B.B.S., 1956, University of Melbourne Medical School (Australia). (1978)
- Martin A. Green, Clinical Associate Professor of Neurology. Associate Attending Physician, North Shore University Hospital. B.S. 1942 and M.D. 1945, University of Michigan. (1971)
- Ronald Green, Assistant Professor of Medicine. Associate Attending Psychiatrist, Department of Medicine, New York Hospital. B.A. 1958, Temple University; M.D. 1962, Jefferson Medical College. (1976)
- Phyllis Greenacre, Emeritus Clinical Professor of Psychiatry. B.S. 1913, University of Chicago; M.D. 1916, Rush Medical School. (1940; 1962)
- Abraham Greenberg, Clinical Assistant Professor of Pediatrics, North Shore University Hospital Staff. A.B. 1965, Columbia University; M.D. 1969, New York University. (1976; 1979)
- Ernest J. Greenberg, Clinical Associate Professor of Medicine. Associate Attending Physician, Endocrinology Service, Memorial Hospital. B.A. 1949; M.D. 1953, American University of Beirut (Lebanon). (1963; 1977)
- George Greenberg, Clinical Instructor of Psychology

- in Psychiatry. B.A. 1955, Brooklyn College; Ph.D. 1960, Duke University. (1977; 1979)
- Stephen R. Greenberg, Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.E.E. 1966, Rensselaer Polytechnic Institute; M.D. 1971, Northwestern University. (1978;
- Elliott C. Greenfield, Clinical Instructor in Otorhinolaryngology. Senior Assistant Attending Otorhinolaryngologist, Department of Surgery, North Shore University Hospital, A.B. 1956, Harvard University: M.D. 1961, University of Virginia. (1975)
- Joel Greenspan, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1964, Brooklyn College; M.D. 1969, State University of New York. (1978;
- Steven E. Greenstein, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1969, New York University; M.D. 1973, New York Medical College. (1974; 1980)
- Richard M. Greenwald, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, North Shore University Hospital. B.A. 1942 and M.D. 1945, University of Buffalo. (1972; 1973)
- Roger L. Greif, Professor of Physiology, B.S. 1937, Haverford College; M.D. 1941, Johns Hopkins University. (1953: 1965)
- Owen W. Griffith, Assistant Professor of Biochemistry. B.A. 1968, University of California; Ph.D. 1974, Rockefeller University. (1974; 1978)
- Lawrence E. Grolnick, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1954; M.D. 1958, Cornell University. (1979)
- Simon Grolnick, Clinical Assistant Professor of Psychiatry. Associate Attending Psychiatrist, North Shore University Hospital. M.D. 1955, State University of New York. (1978; 1980)
- Elliot M. Gross, Adjunct Professor of Pathology. A.B. 1955, Columbia University; M.D. 1959, New York University. (1980)
- Rudolph A. Gross, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist to Outpatients, New York Hospital. B.A. 1963, Rutgers University; M.D. 1967, New Jersey College of Medicine. (1971: 1975)
- Stanley Gross, Clinical Professor of Pathology. Director of Laboratories, North Shore University Hospital. B.S. 1936 and M.D. 1939, New York University. (1970; 1977)
- Margaret T. Grossi, Clinical Associate Professor of Pediatrics. Clinical Affiliate in Pediatrics, New York Hospital, B.A. 1949, Notre Dame College; M.D. 1953, Georgetown Medical School. (1956; 1971)
- Stanley Grossman, Adjunct Assistant Professor of Psychiatry. A.B. 1953, Syracuse University; M.D. 1957, New York Medical College. (1980)
- Seymour Gruber, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. B.A. 1941 and M.D. 1944, New York University. (1971)
- Emanuel Grunberg, Adjunct Associate Professor of Pharmacology. B.A. 1943, University of Alabama; Ph.D. 1946, Yale University. (1973)
- Peter M. Guida, Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital; Asso-

- ciate Surgeon, North Shore University Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany Medical College. (1955; 1972)
- Stephen J. Gulotta, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1954, Brooklyn College; M.D. 1958, State University of New York. (1961: 1979)
- Sabri Gunasti, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, North Shore University Hospital. M.D. 1956, Istanbul University (Turkey). (1972)
- Sudhir Gupta, Associate Professor of Medicine. Assistant Attending Physician, Clinical Immunology Division, Department of Medicine, Memorial Hospital. M.B.B.S. 1966 and M.D. 1970, King George's Medical College; F.R.C.P. 1975, Royal College of Physicians and Surgeons (Canada). (1976; 1979)
- Paul Gusmorino, Clinical Instructor in Psychiatry. Clinical Associate, New York Hospital, B.A. 1969, State University of New York at Stonybrook; M.D. 1974, University of Rome (Italy). (1979; 1980)
- Randolph H. Guthrie, Clinical Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital; Attending Surgeon, Plastic and Reconstructive Surgical Service, Memorial Hospital. A.B. 1957, Princeton University; M.D. 1961, Harvard University. (1962; 1979)
- Thomas C. Guthrie, Clinical Associate Professor of Neurology. Associate Attending Neurologist, New York Hospital. A.B. 1944, Princeton University; M.D. 1947, Cornell University. (1952; 1969)
- Hal S. Gutstein, Instructor in Clinical Neurology. B.A. 1974 and M.D. 1977, Johns Hopkins University. (1978; 1980)
- Alicia J. Guttmann, Instructor in Clinical Psychiatry. Assistant Psychiatrist-PGY, New York Hospital. M.D. 1974, University of Chile. (1979; 1980)
- Herbert B. Guyer, Clinical Assistant Professor of Obstetrics and Gynecology, Senior Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. S.B. 1935 and M.D. 1938, Boston University. (1972; 1977)
- Joanna F. Haas, Assistant Professor of Public Health. Clinical Affiliate in Medicine, New York Hospital. B.A. and M.D. 1969, Boston University; M.S. 1974, Columbia University. (1974; 1975)
- Alan L. Haber, Clinical Instructor in Pediatrics. B.A. 1951, New York University; M.D. 1959, University of Brussels (Belgium). (1979)
- Susan J. Hadley, Professor of Medicine. Attending Physician, New York Hospital, B.A. 1941, University of Wisconsin; M.D. 1944, Cornell University. (1946;
- Wilbur D. Hagaman, Professor of Anatomy. M.D. 1951, Cornell University. (1949; 1975)
- Robert Johns Haggerty, Clinical Professor of Pediatrics. Attending Pediatrician, New York Hospital. A.B. 1946 and M.D. 1949, Cornell University. (1980)
- Barrett G. Haik, Assistant Professor of Clinical Ophthalmology. Assistant Attending Ophthalmologist. New York Hospital. B.S. 1973, Centenary College; M.D. 1976, Louisiana State University. (1980)
- Steven I. Hajdu, Associate Professor of Pathology. Attending Pathologist, Memorial Hospital. M.D. 1961, Catholic University of Louvain (Belgium), (1972) Thomas Hakes, Assistant Professor of Medicine.

- Assistant Attending Physician, Solid Tumor Service, Memorial Hospital. (1976; 1978)
- Enayat Hakim-Elahi, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1952, Tehran University; M.D. 1959, Tehran Medical School (Iran). (1973)
- Norma S. Hakusa, Assistant Professor of Social Work in Psychiatry. B.S. 1954, Upsala College; M.S.W. 1965, New York University. (1973)
- Michael H. Hall, Assistant Professor of Surgery. B.S. 1968 and M.D. 1972, University of Kentucky. (1980)
- Katherine A. Halmi, Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1961 and M.D. 1965, University of Iowa.
- Jerry L. Halpern, Clinical Instructor in Surgery (Dental). Assistant Attending Oral Surgeon, New York Hospital. B.S. 1969, Fairleigh Dickinson University; D.D.S. 1974, Howard University. (1976; 1979)
- Eugene Halpert, Adjunct Assistant Professor of Psychiatry. M.D. 1956, University of Chicago. (1980)
- Martin D. Hamburg, Adjunct Associate Professor of Anatomy. B.A. 1965, New York University; Ph.D. 1969, University of Michigan. (1969; 1978)
- Francis J. Hamilton, Emeritus Clinical Professor of Psychiatry, Honorary Staff, New York Hospital, M.D. 1933, Jefferson Medical College. (1940; 1973)
- Paul A. Hamlin, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.S. 1963, St. John's University; M.D. 1967, New York Medical College. (1976; 1980)
- David Hammond, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital, B.A. 1973, University of Rochester; M.D. 1977, Columbia University. (1978; 1980)
- Charles K. Hamrang, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1950, Pahlavi College; M.D. 1956, University of Tehran (Iran). (1975)
- James Q. Haralambie, Emeritus Clinical Professor of Pediatrics. Attending Pediatrician, New York Hospital. B.A. 1931, Oberlin College; M.D. 1935, Yale University. (1939; 1977)
- Andrew W. Haraway, Clinical Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital; Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1956 and M.D. 1958, Medical College of Virginia. (1965; 1974)
- Dean Harlam, Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. A.B. 1968, Columbia University; M.D. 1972, Albert Einstein College of Medicine. (1976; 1979)
- Jack R. Harnes, Clinical Assistant Professor of Medicine. M.D. 1945, Columbia University. (1970; 1979)
- Peter C. Harpel, Professor of Medicine. Attending Physician, New York Hospital, A.B. 1957 and M.D. 1961, I Harvard University. (1962; 1976)
- Rita G. Harper, Associate Professor of Perinatal Medicine in Obstetrics and Gynecology. Associate Professor of Pediatrics. B.S. 1955, University of Michigan; M.D. 1962, New Jersey College of Medicine. (1973; 1974)
- Alvin H. Harris, Clinical Instructor in Surgery. D.M.D. 1953 and M.D. 1955, Harvard University. (1980) Jay E. Harris, Clinical Assistant Professor of Psychia-

- try. Assistant Attending Psychiatrist, New York Hospital. B.A. 1958, Johns Hopkins University; M.D. 1962, University of Maryland. (1980)
- Laurence S. Harris, Clinical Associate Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital and Manhattan Eye, Ear, and Throat Hospital. B.A. 1959, Johns Hopkins University; M.D. 1963, State University of New York. (1964; 1977)
- Marcia A. Harris, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1971, Pace University; M.D. 1975, Columbia University. (1976;
- Sherwin Harris, Clinical Instructor in Psychiatry, M.D. 1954, University of Texas. (1975)
- Irving B. Harrison, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1940 and M.D. 1943, Cornell University. (1968; 1977)
- Raymond Harrison, Clinical Associate Professor of Ophthalmology. Attending Ophthalmologist, New York Hospital; Attending Surgeon, Manhattan Eye, Ear, and Throat Hospital. M.B.Ch.B. 1948, University of Sheffield (England). (1970; 1977)
- Wilma M. Harrison, Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1960, Barnard College; M.D. 1966, New York Medical College.
- Winston G. Harrison, Assistant Professor of Pathology. A.B. 1968, Harvard University; M.D. 1975, Case Western Reserve University. (1976; 1980)
- Marion G. Hart, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1956, New York University; M.D. 1960, State University of New York. (1976)
- Barry J. Hartman, Instructor in Medicine. Clinical Fellow, New York Hospital. B.S. Pharmacy 1969, University of Pittsburgh; M.D. 1973, Hershey Medical Center. (1978; 1980)
- Neil Hartman, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.S. 1968 and M.D. 1977, Cornell University; Ph.D. 1973, Rockefeller University. (1978; 1980)
- James C. Harvey, Instructor in Surgery. Assistant Thoracic Surgeon, New York Hospital. M.D. 1972, University of Alabama. (1978)
- Martin Harwin, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. B.A. 1938, University of Minnesota; M.D. 1942, Louisiana State University. (1972)
- Rudy H. Haschemeyer, Professor of Biochemistry. B.A. 1952, Carthage College; Ph.D. 1957, University of Illinois. (1967; 1975)
- Lawrence J. Hatterer, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, Princeton University; M.D. 1949, Columbia University. (1952; 1968)
- Andrew J. Hauser, Clinical Instructor in Surgery (Oral). Assistant Attending Oral Surgeon, New York Hospital. B.S. 1973, St. John's University; D.D.S. 1977, Columbia University. (1980)
- Yoosuf A. Haveliwala, Clinical Associate Professor of Psychiatry. M.D., University of Bombay (India). (1979)
- Graham G. Hawks, Professor of Clinical Obstetrics and Gynecology. Attending Obstetrician and Gyne-

- cologist, New York Hospital. B.A. 1935, Colgate University; M.D. 1940, New York University. (1953;
- James A. Haycox, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1947 and M.D. 1951, Stanford University. (1976; 1978)
- Janet M. Hayes, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1944, Wellesley College; M.D. 1948, Cornell University. (1975)
- Joseph G. Hayes, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital, B.A. 1959 and M.D. 1963, Georgetown University. (1964; 1975)
- Melvin B. Hayes, Assistant Professor of Biochemistry in Medicine. A.B. 1964, Washington and Jefferson College; Ph.D. 1970, Cornell University. (1967; 1975)
- Robert T. Heelan, Assistant Professor of Radiology. Assistant Attending Radiologist, Memorial Hospital. B.S. 1964, Fordham University; M.D. 1969, University of Bologna (Italy). (1976)
- John M. Hefton, Assistant Professor of Anatomy. B.A. 1960, Temple University; Ph.D. 1971, Jefferson Medical College. (1976; 1978)
- Martin L. Heilbraun, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital, A.B. 1957, Brown University; M.D. 1961, Tufts University. (1971; 1973)
- Leonard L. Heimoff, Clinical Associate Professor of Medicine: Emeritus Clinical Professor of Public Health. Associate Attending Physician, New York Hospital, B.A. 1934, University of Alabama; M.D. 1939, University of Maryland. (1946; 1980)
- Erich Heinz, Professor of Physiology and Biophysics. M.D. 1939, University of Muenster and Kiel (Germany). (1978; 1979)
- Bruce R. Heinzen, Clinical Associate Professor of Surgery, Attending Surgeon, North Shore University Hospital. A.B. 1942 and M.A. 1943, Oberlin College; M.D. 1946, University of Chicago. (1947; 1973)
- Michael S. Heitler, Clinical Instructor in Pediatrics. Provisional Staff, North Shore University Hospital. A.B. 1955, Colgate University; M.D. 1959, Albert Einstein College of Medicine. (1977) -
- Mark E. Helbraun, Clinical Instructor in Surgery. Clinical Affiliate, Department of Surgery, New York Hospital. B.A. 1968, Amherst College; M.D. 1972, Wayne State University. (1973; 1978)
- Lawrence Helson, Associate Professor of Pediatrics. Attending Pediatrician, Memorial Hospital. B.A. 1953, College of the City of New York; M.S. 1957, New York University; M.D. 1962, University of Geneva (Switzerland). (1968; 1974)
- Andre Heltai, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1947 and M.D. 1951, University of Geneva (Switzerland). (1971; 1972)
- Thomas F. Henley, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital, B.S. 1936, University of North Carolina; M.D. 1938, Harvard University. (1940; 1977)
- Edward I. Henry, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.A. 1949, Syracuse University; M.D. 1954, New York Medical College. (1977)

- David N. Herndon, Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. B.A. 1970 and M.D. 1974, Case Western Reserve University. (1977; 1980)
- Harry W. Herr, Assistant Professor of Surgery (Urology). Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1965 and M.D. 1969, University of California at Irvine. (1979)
- Richard A. Herrmann, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1951 and M.D. 1955, Columbia University. (1961; 1971)
- Stuart J. Hershon, Clinical Assistant Professor of Surgery, Senior Assistant Attending Surgeon (Orthopedics), North Shore University Hospital. A.B. 1959, Harvard University; M.D. 1963, New York Medical College. (1973; 1979)
- Daniel N. Hertz, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1954, Cornell University; M.D. 1958, Union University. (1965; 1972)
- Ralph E. L. Hertz, Clinical Assistant Professor of Surgery. Associate Attending Surgeon, Rectal and Colon Service, Memorial Hospital. B.A. 1941 and M.D. 1944, McGill University (Canada), (1955; 1980)
- Margaret E. Hertzig, Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1956, Vassar College; M.D. 1960, New York University. (1977)
- Basil S. Hilaris, Professor of Radiology. Attending Radiologist, New York Hospital. Attending Radiation Therapist, Memorial Hospital, M.D. 1955, University of Athens (Greece). (1965; 1976)
- Margaret W. Hilgartner, Professor of Pediatrics. Attending Pediatrician, New York Hospital. B.A. 1946, Bryn Mawr College; M.A. 1952 and M.D. 1955, Duke University. (1958; 1978)
- Ann C. Hill, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.S. 1958, University of North Dakota; M.D. 1962. Northwestern University. (1967; 1970)
- Malcolm Hill, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1952, Swarthmore College; M.D. 1957. Yale University. (1977)
- Richard K. Hill. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1957 and M.D. 1961, Northwestern University. (1977)
- A. Matthew Hilmi, Clinical Instructor of Medicine in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. M.D. 1959, Syrian University School of Medicine (Syria). (1977)
- Lawrence E. Hinkle, Professor of Medicine; Professor of Medicine in Psychiatry. Attending Physician, New York Hospital. B.A. 1938, University of North Carolina; M.D. 1942, Harvard University. (1947; 1971)
- Joseph C. Hinsey, Emeritus Professor of Anatomy, B.S. 1922, M.S. 1923 and D.Sc. 1951, Northwestern University; Ph.D. 1927, Washington University. (1942;
- James G. Hirsch, Adjunct Professor of Medicine, B.S. 1943, Yale University; M.D. 1946, Columbia University. (1972)
- Jules Hirsch, Adjunct Professor of Medicine, Clinical Affiliate in Medicine, New York Hospital. M.D. 1948,

- Southwestern Medical School, University of Texas.
- Robert Hirsch, Clinical Assistant Professor of Psychiatry. Associate Attending Psychiatrist, North Shore University Hospital. B.S. 1949, Lynchburg College; M.A. 1950, Fordham University; M.D. 1954, New York Medical College. (1971; 1973)
- Eva Hirschenstein, Clinical Assistant Professor of Neurology. Classic Maturity 1954, Lyceum Gymnasium Giullo Cesare; M.D. 1960, University of Rome (Italy). (1980)
- James C. Hirschy, Clinical Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital; Assistant in Radiology, Hospital for Special Surgery, A.B. 1960, Princeton University; M.D. 1964, Jefferson Medical College. (1967; 1974)
- Yashar Hirshaut, Associate Professor of Medicine. Associate Attending Physician, Clinical Immunology Division, Department of Medicine, Memorial Hospital. B.A. 1959 and M.D. 1963, Albert Einstein College of Medicine. (1969; 1979)
- Raymond Hochman, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1952, Yale University; M.D. 1956, Harvard University. (1957; 1967)
- Barton Hoexter, Clinical Assistant Professor of Surgery, Senior Assistant Attending Surgeon (Proctology), North Shore University Hospital. B.A. 1958, Kenyon College; M.D. 1962, George Washington University. (1972; 1975)
- A. Charles Hoffman, Clinical Associate Professor of Pediatrics. Active Pediatrician, North Shore University Hospital. B.A. 1935 and M.S. 1938, University of Tennessee; M.D. 1943, Middlesex Medical College. (1972; 1976)
- Jimmie C. B. Holland, Professor of Psychiatry. Attending Psychiatrist, Memorial Hospital. B.A. 1948 and M.D. 1952, Baylor University. (1977)
- Dickerman Hollister, Instructor in Medicine. Clinical Fellow, New York Hospital, B.A. 1971, Yale University; M.D. 1975, University of Virginia. (1978; 1980)
- Cranston W. Holman, Emeritus Clinical Professor of Surgery. Attending Surgeon, New York Hospital. Consultant in Surgery (Thoracic), North Shore University Hospital, A.B. 1927 and M.D. 1931, Stanford University. (1932; 1975)
- George R. Holswade, Clinical Associate Professor of Surgery. Attending Surgeon, New York Hospital. A.B. 1940, Brown University; M.D. 1943, Cornell University. (1944; 1961)
- John Garrett Holt, Associate Professor of Clinical Radiology (Physics). Attending Roentgenologist, Diagnostic Radiology, Memorial Hospital. A.B. 1950, Hamilton College; F.A.C.R. 1968, American College of Radiology. (1968; 1979)
- Albert C. Holtzman, Clinical Instructor in Pediatrics. Clinical Affiliate in Pediatrics, New York Hospital. B.A. 1950, New York University; M.D. 1960, University of Lausanne (Switzerland). (1972)
- Stephen Holzman, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1966, University of Chicago; M.D. 1970, University of Pittsburgh. (1977)
- William P. Homan, Assistant Professor of Surgery. B.A. 1969, Williams College; M.D. 1973, Cornell University. (1974; 1978)
- Eddie Hoover, Assistant Professor of Surgery. Assis-

- tant Attending Surgeon, New York Hospital. A.B. 1965, University of North Carolina; M.D. 1969, Duke University. (1973; 1978)
- Seymour Hopfan, Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital, B.S. 1939 and M.D. 1948, Royal College of Edinburgh (Scotland), (1967: 1969)
- Bernard L. Horecker, Adjunct Professor of Biochemistry. B.S. 1936 and Ph.D. 1939, University of Chicago.
- Joel Horovitz, Associate Professor of Surgery, Associate Attending Surgeon, New York Hospital. B.A. 1963 and M.D. 1967, McGill University (Canada). (1976: 1979)
- Isadore Horowitz, Clinical Instructor of Medicine. Assistant Attending Physician, North Shore University Hospital. M.D. 1972, University of Toronto (Canada), (1979)
- Paul Horowitz, Clinical Assistant Professor of Pediatrics. B.A. 1951, New York University; M.D. 1957, Leiden University (The Netherlands). (1979)
- Mark Stephen Horwich, Assistant Professor of Clinical Neurology. Assistant Attending Neurologist, New York Hospital. A.B. 1963 and B.M.S. 1965, Dartmouth University. (1974)
- Melvin Horwith, Professor of Clinical Medicine, Attending Physician, New York Hospital. B.S. 1947 and M.D. 1951, Union University. (1953; 1979)
- S. Theodore Horwitz, Clinical Associate Professor of Obstetrics and Gynecology, Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1956, Hobart College; M.D. 1960, State University of New York. (1971)
- Donald W. Hoskins, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell University, (1958; 1973)
- Raymond W. Houde, Associate Professor of Medicine; Professor of Pharmacology. Attending Physician, Chief, Admitting and Diagnostic Service, Memorial Hospital, A.B. 1940 and M.D. 1943, New York University. (1950; 1978)
- Alan N. Houghton, Assistant Professor of Medicine. B.A. 1970, Stanford University; M.D. 1974, University of Connecticut. (1977; 1980)
- James T. Howard, Clinical Instructor of Obstetrics and Gynecology in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. A.B. 1955, Gettysburg College; M.D. 1959, Jefferson Medical College. (1977)
- Suzanne A. L. Howe, Clinical Associate Professor of Public Health; Clinical Assistant Professor of Otorhinolaryngology. Clinical Affiliate in Otorhinolaryngology, New York Hospital. A.B. 1936, Barnard College; M.D. 1940, Cornell University; M.P.H. 1966, Columbia University. (1943; 1974)
- William S. Howland, Professor of Anesthesiology. Attending Anesthesiologist; Chairman, Department of Critical Care, Memorial Hospital. B.S. 1941, Notre Dame University; M.D. 1944, Columbia University. (1954; 1968)
- Hans Huebner, Assistant Professor of Psychiatry; Assistant Professor of Pediatrics. Assistant Attending Psychiatrist: Assistant Attending Pediatrician. New York Hospital. M.D. 1967, University of Hamburg (West Germany). (1976)

- Michael L. Hundert, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1972, Washington University; M.D. 1975, Rush Medical College. (1976: 1978)
- Howard F. Hunt, Professor of Psychology in Psychiatry. Attending Psychologist, New York Hospital. B.A. 1940, Michigan State University; Ph.D. 1943, University of Minnesota. (1977)
- Charles G. Huntington, Clinical Assistant Professor of Radiology. A.B. 1935, Columbia University; M.D. 1940, New York University, (1979)
- James R. Hurley, Associate Professor of Medicine: Associate Professor of Radiology. Associate Attending Physician; Assistant Attending Radiologist, New York Hospital. A.B. 1957 and M.D. 1961, Cornell University. (1962; 1973)
- Kenneth S. Hurst, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1965, Franklin and Marshall College; M.D. 1969, State University of New York.
- Stephen W. Hurt, Instructor of Psychology in Psychiatry. B.A. 1972, University of Texas; M.A. 1974 and Ph.D. 1978, University of Chicago. (1978: 1979)
- Andrew G. Huvos, Associate Professor of Pathology. Associate Attending Pathologist, Memorial Hospital. M.D. 1963, University of Goettingen Medical School (West Germany), (1972)
- Martin D. Hyman, Adjunct Associate Professor of Public Health. A.B. 1955, Princeton University; M.A. 1958 and Ph.D. 1964, Columbia University. (1965;
- Paul M. Hyman, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital, B.S. 1968, Massachusetts Institute of Technology; M.D. 1973, State University of New York. (1974; 1978)
- Roger A. Hyman, Associate Professor of Radiology. Associate Attending Radiologist, Department of Radiology, North Shore University Hospital. B.A. 1964, Brandeis University; M.D. 1968, State University of New York. (1972; 1979)
- Paul Hymowitz, Instructor of Psychology in Psychiatry. B.A. 1969, Brandeis University; Ph.D. 1977, Adelphi University. (1979)
- Francis W. Iacobellis, Clinical Instructor in Medicine. Clinical Affiliate, New York Hospital. A.B. 1967, Holy Cross College; M.D. 1971, Columbia University. (1972; 1977)
- George D. Igel, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. B.A. 1968, Amherst College; M.D. 1972, State University of New York. (1976)
- Hana Pospisil Illner, Assistant Professor of Surgery. M.D. 1961, Charles University (Czechoslovakia).
- Gerald Imber, Clinical Instructor in Anatomy, Clinical Instructor in Surgery (Plastic). Assistant Attending Surgeon, New York Hospital. M.D. 1966, State University of New York. (1973; 1978)
- Julianne L. Imperato, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1961, College of Mt. Saint Vincent; M.D. 1965, State University of New York. (1969: 1975)
- Pascal J. Imperato, Adjunct Professor of Public Health. B.S. 1958, Saint John's University; M.D. 1962, State

- University of New York; M.P.H. and T.M. 1966, Tulane University, (1972: 1978)
- Pamela Ingber, Instructor of Psychiatry, B.A. 1973. New York University; M.D. 1976, New York Medical College. (1976; 1979)
- Allan E. Inglis, Clinical Professor of Anatomy; Professor of Clinical Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Consultant, North Shore University Hospital: Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, University of Rochester. (1956; 1979)
- Peter Inquagiato, Clinical Instructor in Pediatrics, Provisional Staff, North Shore University Hospital. B.S. 1964, Manhattan College; M.D. 1971, Bologna University (Italy), (1977)
- Barton Inkeles, Clinical Instructor in Medicine, Clinical Affiliate, New York Hospital, B.S. 1968, City University of New York; M.D. 1972, Cornell University.
- Robert Inman, Assistant Professor of Medicine. Clinical Fellow, New York Hospital. B.A. 1971, Yale University; M.D. 1974, McMaster University, (1979)
- John N. Insall, Clinical Professor of Surgery (Orthopedics). Attending Surgeon, New York Hospital: Associate Attending Orthopedic Surgeon, Hospital for Special Surgery, B.A. 1953 and M.B.B.Ch. 1956. Cambridge University (England). (1965; 1980)
- Charles E. Inturrisi, Professor of Pharmacology, B.S. 1962, University of Connecticut; M.S. 1965 and Ph.D. 1967, Tulane University. (1969; 1978)
- Marian C. Isaacs, Associate Professor of Clinical Medicine. Associate Attending Physician, Clinical Physiology and Renal Service, Memorial Hospital, B.A. 1948 and M.D. 1951, University of Colorado, (1961:
- Norman J. Isaacs, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1949 and M.A. 1950, New York University; M.D. 1954, New York Medical College. (1958; 1979)
- Sidney Isaacson, Clinical Assistant Professor of Pediatrics. North Shore University Hospital Staff. B.A. 1949, New York University; M.D. 1955, University of Berne (Switzerland). (1976)
- Howard Isenberg, Clinical Instructor in Pediatrics. Provisional Staff, North Shore University Hospital. B.A. 1968, Harvard University; M.D. 1972, New York University. (1977)
- Amnon Issacharoff, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946, College of Buenos Aires; M.D. 1957, Buenos Aires Medical College (Argentina). (1979)
- Takeo Iwamoto, Professor of Clinical Ophthalmology. A.B. 1947, Himeji College (Japan); M.D. 1955 and Dr. Med. Sci. 1962, University of Tokyo (Japan).
- Bernard Jacobs, Professor of Clinical Surgery (Orthopedics). Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. First M.B.B.S. 1943, second M.B.B.S. 1945, M.R.C.S. and L.R.C.P. 1949, University of London (England). (1961; 1979)
- Martin H. Jacobs, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New

- York Hospital. B.A. 1939, New York University; M.D. 1943, Long Island College of Medicine. (1979)
- Morton Jacobs, Assistant Professor of Radiology, B.S. 1967, City College of New York; M.D. 1972, Chicago Medical School. (1976; 1980)
- Edward I. Jacobson, Clinical Instructor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1969, New York University; M.D. 1975, New York Medical College. (1976; 1979)
- Jerome G. Jacobstein, Associate Professor of Radiology. Associate Attending Radiologist, New York Hospital. A.B. 1963, Princeton University; M.D. 1967, University of Pennsylvania. (1973; 1978)
- Eric A. Jaffe, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. M.D. 1966, State University of New York. (1968; 1977)
- Subhash Jain, Instructor in Anesthesiology. M.B.B.S. 1969; S.M.S. Medical College. (1980)
- Frederick A. Jakobiec, Professor of Ophthalmology; Professor of Pathology. Attending Ophthalmologist, Attending Pathologist, New York Hospital. A.B. 1964 and M.D. 1968, Harvard University; D.Med.Sci. 1971, Columbia University. (1979)
- Susan R. Jalandoni, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. M.D. 1965, University of Santo Tomas (Philippines). (1969; 1973)
- David F. James, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1959, Columbia University; M.D. 1964, University of Glasgow (Scotland). (1970; 1973)
- Morris Lowell Jampol, Clinical Associate Professor of Medicine. B.S. 1940, City College of New York: M.D. 1943, New York University. (1979)
- Lawrence A. Janoff, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.S. 1940 and M.D. 1943, University of Vermont. (1972; 1974)
- Peter T. Janulis, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1948 and M.D. 1951, Cornell University. (1953; 1977)
- Charles Jarowski, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. A.B. 1968, Columbia University; M.D. 1972, Cornell University. (1973; 1977)
- Dennis J. Jascott, Clinical Assistant Professor of Anesthesiology. Clinical Associate Attending Anesthesiologist, Memorial Hospital. B.A. and M.A. 1965, Seton Hall University; M.D. 1969, New Jersey College of Medicine. (1971; 1979)
- Ghazala Javaid, Clinical Instructor in Psychiatry. M.D. 1968, King Edward Medical College (Pakistan).
- Taria Javaid, Clinical Instructor in Pediatrics. M.D. 1964, King Edward Medical College (Pakistan). (1977)
- Norman B. Javitt, Professor of Medicine. Attending Physician, New York Hospital. B.A. 1947, Syracuse University; Ph.D. 1951, University of North Carolina; M.D. 1954, Duke University. (1968; 1973)
- Harvey H. Jay, Clinical Assistant Professor of Medicine-Dermatology, Clinical Affiliate, New York Hospital. A.B. 1966, Columbia University; M.D. 1970, New York University. (1977; 1980)

- Thomas P. Jernigan, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1942 and M.D. 1944, Vanderbilt University. (1957; 1961)
- Tong Hyub Joh, Associate Professor of Neurobiology in Neurology. B.S. 1953, Seoul University (Korea); M.S. 1965, University of Missouri; Ph.D. 1971, New York University. (1972; 1976)
- Donald G. Johnson, Emeritus Clinical Professor of Obstetrics and Gynecology. Honorary Staff, New York Hospital. B.A. 1936, University of Maine; M.D. 1940, Yale University. (1942; 1975)
- J. William Johnson, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. M.A. 1959, Yale University; M.D. 1967, University of Louvain (Belgium). (1978)
- Robert C. Johnson, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. A.B. 1965 and M.D. 1974, Columbia University. (1975; 1979)
- Warren D. Johnson, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.S. 1958, Carroll College; M.D. 1962, Columbia University. (1963; 1974)
- Brian Jones, Assistant Professor of Medicine. Assistant Professor of Pharmacology. M.B.B.S. 1970, University of London; L.R.C.P. and M.R.C.S. 1973, University of London (England). (1977; 1980)
- Robert L. Jones, Instructor in Medicine, Clinical Affiliate in Medicine, New York Hospital. B.S. 1966 and M.D. 1970, Tulane University. (1977)
- Thomas C. Jones, Professor of Medicine; Associate Professor of Public Health. Attending Physician, New York Hospital. B.A. 1958, Allegheny College; M.D. 1962, Case Western Reserve University. (1963;
- Walter B. Jones, Associate Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital; Associate Attending Surgeon, Gynecology Service, Memorial Hospital, B.S. 1954, Arizona State University; M.D. 1964. Hahnemann Medical College, (1970; 1977)
- Michael Jordan, Clinical Instructor of Psychiatry. B.A. 1970, Georgetown University; M.D. 1974, Howard University. (1980)
- Avinash Josen, Clinical Instructor in Pediatrics. M.B.B.S. 1972, Lady Harding Medical College (India). (1979)
- Paul R. Joseph, Clinical Assistant Professor of Pediatrics. Active Attending Pediatrician, North Shore University Hospital. A.B. 1953, Yale University; M.D. 1957, New York Medical College. (1972)
- Lois G. Jovanovic, Assistant Professor of Medicine in Obstetrics and Gynecology; Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital, B.S. 1969, Columbia University; Bachelor of Hebrew Literature, Jewish Theological Seminary; M.D. 1973, Albert Einstein College of Medicine. (1974; 1979)
- Vincent A. Joy, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.S. 1946, Fordham University; M.D. 1950, Duke University. (1963; 1973)
- William A. Kachadorian, Adjunct Assistant Professor of Physiology, B.S. 1965, Springfield College; M.S. 1966 and Ph.D. 1970, University of Illinois. (1978) Hyman D. Kachalsky, Adjunct Assistant Professor of

- Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.A. 1950, Syracuse University; M.D. 1955, State University of New York. (1976)
- Lawrence J. Kagen, Professor of Medicine. Attending Physician, New York Hospital: Attending Physician. Hospital for Special Surgery. B.S. 1957 and M.D. 1969, New York University. (1970; 1979)
- Yaffa Kahanowicz, Clinical Instructor in Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. M.D. 1968, Tel-Aviv Medical School (Israel). (1973; 1977)
- Helena Kahn, Assistant Professor of Pathology. Assistant Attending Pathologist, North Shore University Hospital. M.D. 1953, Medical School (Lisbon, Portugal). (1972; 1976)
- Roberta Kahn, Clinical Assistant Professor of Anesthesiology. Clinical Assistant Anesthesiologist, Memorial Hospital. B.S. 1971, Pennsylvania State University; M.D. 1973. Jefferson Medical College. (1978; 1979)
- Steven Kahner, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1964, Duke University; M.D. 1968, Georgetown University. (1971; 1975)
- Robert Kaiko, Assistant Professor of Pharmacology. B.S. 1970, University of Connecticut; Ph.D. 1975, Cornell University. (1974; 1979)
- Richard Kaiser, Instructor of Psychiatry. B.S. 1969, University of California; M.D. 1973, Albert Einstein College of Medicine. (1980)
- Balkrishna Kalayam, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. M.B. B.S. 1973, University of Bombay (India). (1980)
- Lester Kalisher, Clinical Associate Professor of Radiology. B.S. 1962 and M.D. 1966, Wayne State University. (1979)
- Thomas P. Kalman, Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital, B.A. 1971, University of Pennsylvania; M.D. 1975, New York Medical College. (1977; 1978)
- Robert Dorrance Kalter, Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital. B.A. 1967, Columbia University; M.D. 1971, University of Pennsylvania. (1979)
- David Michael Kaminsky, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.S. 1970, University of Toledo; M.D. 1974, Universidad Autonoma de Guadalajara (Mexico). (1979; 1980)
- Robert L. Kandell, Clinical Instructor in Pediatrics. Active Staff, North Shore University Hospital. A.B. 1959, University of Pennsylvania; M.D. 1963, Tulane Medical School. (1972)
- Francis D. Kane, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. M.D. 1940, University of Buffalo. (1948; 1978)
- Herbert G. Kantor, Assistant Professor of Radiology. Associate Attending Radiologist, New York Hospital. A.B. 1943, Cornell University; M.D. 1946, New York Medical College. (1978)
- Saul E. Kapel, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1948, New York University; M.D. 1956, University of Bologna (Italy). (1972; 1978)
- Abraham I. Kaplan, Clinical Assistant Professor of Psychiatry. Associate Attending Psychiatrist, North

- Shore University Hospital, B.A. 1934, New York University; L.R.C.P., L.R.C.S., L.R.C.P. and S. 1939, Anderson College (Scotland); M.D. 1940, State University of New York. (1972; 1977)
- Barry B. Kaplan, Assistant Professor of Anatomy, B.A. 1968 and M.A. 1969, Hofstra University; Ph.D. 1974, Cornell University. (1976; 1977)
- Eugene H. Kaplan, Adjunct Associate Professor of Psychiatry, B.S. 1947, University of Michigan; M.D. 1951, New York University. (1980)
- Helen S. Kaplan, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital, B.F.A. 1951, Syracuse University; M.A. 1952 and Ph.D. 1955, Columbia University; M.D. 1959, New York Medical College. (1970)
- Mark H. Kaplan, Assistant Professor of Medicine. A.B. 1962 and M.D. 1966, Cornell University. (1974; 1980)
- Matthew R. Kaplan, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. A.B. 1965, Colgate University; M.D. 1969, State University of New York. (1978)
- Norman L. Kaplan, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1954, Wesleyan University; M.D. 1958, Columbia University. (1976)
- Richard D. Kaplan, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. A.B. 1972, Harvard University; M.D. 1976, Mount Sinai School of Medicine. (1979; 1980)
- Robert J. Kaplan, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. B.A. 1956, Wesleyan University; M.D. 1960, Albert Einstein College of Medicine. (1976)
- Sandra Kaplan, Clinical Instructor of Psychiatry. B.S. 1963, George Washington University; M.D. 1967, Temple University. (1979)
- Seymour Kaplan, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician (Allergy), North Shore University Hospital. B.A. 1945, New York University; M.B. 1949 and M.D. 1950, Chicago Medical School. (1975)
- Martin J. Kaplitt, Clinical Associate Professor of Surgery, Associate Attending Surgeon (Thoracic), North Shore University Hospital. M.D. 1963, State University of New York. (1971; 1978)
- Neena Kapoor, Assistant Professor of Pediatrics. Assistant Attending in Pediatrics, New York Hospital. M.B.B.S. 1971, H.P. Medical College (India). (1979)
- Attallah Kappas, Professor of Medicine; Professor of Pharmacology. Attending Physician, New York Hospital. A.B. 1947, Columbia University; M.D. 1950, University of Chicago. (1953; 1972)
- Sylvia R. Karasu, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1971, University of Pennsylvania; M.D. 1976, Albert Einstein College of Medicine. (1977; 1980)
- Nataline Kardon, Assistant Professor of Pediatrics. North Shore University Hospital Staff, B.A. 1964, University of California at Los Angeles; M.D. 1967, Albert Einstein College of Medicine. (1975; 1978)
- Stephen B. Kardon, Clinical Instructor of Radiology in Psychiatry, B.A. 1963, Dartmouth College; M.D. 1967, Albert Einstein College of Medicine. (1979)
- David B. Karlin. Clinical Associate Professoor of Ophthalmology. Associate Attending Ophthalmologist,

- New York Hospital. Associate Attending Ophthalmic Surgeon and Ophthalmologist-in-Charge, Retina Clinic, Manhattan Eve, Ear, and Throat Hospital. A.B. 1950, Columbia University; M.D. 1954, New York Medical College; M.Sc. 1962, New York University. (1971; 1977)
- Marilyn G. Karmason, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital, M.A.B. 1949, Barnard College; M.D. 1953, Harvard University. (1957; 1967)
- Jane E. Karp. Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1972, Barnard College; M.D. 1976, State University of New York.
- Nathaniel P. Karush, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1962, Columbia College; M.D. 1966, Boston University. (1977)
- Aileen F. Kass, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1958, New York University; M.D. 1962, New York Medical College, (1963; 1971)
- Walter Kass, Adjunct Professor of Psychology in Psychiatry. Attending Psychologist, New York Hospital. B.A. 1936 and M.S. 1938, College of the City of New York; Ph.D. 1952, New York University. (1979)
- Lenore Katkin, Associate Professor of Clinical Pediatrics. A.B. 1954, Barnard College; M.D. 1958, State University of New York. (1977; 1979)
- Ellen Katz, Clinical Instructor in Psychiatry. B.A. 1970, Queens College; M.D. 1976, Cornell University.
- Joel Katz, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1942 and M.D. 1945, Northwestern University. (1979)
- Richard Katz, Clinical Instructor in Radiology, B.A. 1971, Hofstra University; M.D. 1975, University of Oklahoma. (1978; 1980)
- Seymour Katz, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.S. 1960, City College of New York; M.D. 1964, New York University. (1969; 1974)
- Herbert Katzin, Clinical Associate Professor of Ophthalmology. Associate Attending Ophthalmologist, New York Hospital, M.D. 1937, Harvard University. (1971)
- Joseph T. Kauer, Clinical Assistant Professor of Surgery. B.S. 1933, New York University; M.D. 1937, Cornell University. (1940; 1953)
- Charles Kaufman, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. S.B. 1971, Massachusetts Institute of Technology; M.D. 1977, Columbia University. (1978; 1980)
- Ira H. Kaufman, Clinical Associate Professor of Ophthalmology. Associate Attending Surgeon (Ophthalmology), North Shore University Hospital. B.A. 1949 and M.D. 1953, Cornell University. (1954; 1973)
- Richard J. Kaufman, Assistant Professor of Clinical Medicine. Associate Attending Physician, Solid Tumor Service, Memorial Hospital. A.B. 1948, Harvard University; M.D. 1952, Columbia University. (1966: 1979)
- Robert E. Kave, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1959, Princeton University; M.D. 1963, University of Pennsylvania. (1966; 1972)

- Elias Kazam, Associate Professor of Radiology, Associate Attending Radiologist, New York Hospital. B.S. 1961, City College of New York; M.D. 1966, Albert Einstein College of Medicine. (1972: 1979)
- B. H. Kean, Emeritus Clinical Professor of Medicine (Tropical Medicine); Emeritus Clinical Professor of Public Health. Attending Physician, New York Hospital: Consultant (Tropical Medicine), Memorial Hospital, A.B. 1933, University of California; M.D. 1937, Columbia University. (1952; 1978)
- Richard J. Kearns, Instructor in Surgery. B.A. 1971, Fordham University; M.D. 1975, Georgetown University. (1977: 1978)
- George A. Keating, Clinical Instructor in Anesthesiology in Psychiatry, Clinical Affiliate, New York Hospital, B.S. 1933, Fordham University; M.D. 1938, Long Island College of Medicine. (1977)
- Charles D. Kelley, Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital: Assistant Attending Radiation Therapist, Memorial Hospital, B.A. 1942, Syracuse University; M.D. 1945, Hahnemann Medical College. (1972)
- Scott L. Kellman, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1969, New York University; M.D. 1973. New York Medical College. (1974: 1980)
- Aaron Kellner, Clinical Professor of Pathology, Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva University; M.S. 1936, Columbia University; M.D. 1939, University of Chicago. (1946; 1968)
- David P. Kelsen, Assistant Professor of Medicine. Clinical Assistant Attending Physician, Solid Tumor Service, Memorial Hospital, B.A. 1968, Temple University; M.D. 1972, Hahnemann Medical College. (1976; 1978)
- Nancy E. Kemeny, Assistant Professor of Medicine. Assistant Attending Physician, Solid Tumor Service, Department of Medicine, Memorial Hospital. A.B. 1967. University of Pennsylvania: M.D. New Jersey College of Medicine. (1975; 1976)
- Sanford J. Kempin, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.S. 1965, Brooklyn College; M.D. 1971, Catholic University of Louvain (Belgium). (1975; 1977)
- Kenneth Kenigsberg, Clinical Assistant Professor of Surgery. Senior Assistant Attending Surgeon (Pediatric Surgery), North Shore University Hospital. B.A. 1951, Wesleyan University; M.D. 1955, Harvard University. (1972; 1978)
- Donald S. Kent, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital, A.B. 1942 and M.D. 1945, Cornell University. (1971; 1973)
- Otto F. Kernberg, Professor of Psychiatry. Attending Psychiatrist and Medical Director of the Westchester Division, New York Hospital. B.S. 1947 and M.D. 1953, University of Chile. (1976)
- Paulina F. Kernberg, Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital, B.S. 1952 and M.D. 1959, University of Chile. (1978)
- M. Dorothea Kerr, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. 1944, Ohio State University; M.D. 1950, Columbia University. (1953; 1979)
- Jeffrey Theodore Kessler, Clinical Assistant Professor

- of Neurology, Assistant Attending Neurologist, North Shore University Hospital. B.A. 1965, Wesleyan University; M.D. 1969, Cornell University. (1970; 1978)
- John Allen Kessler, Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. B.A. 1967, Princeton University; M.D. 1971, Cornell University. (1975; 1979)
- John G. Keuhnelian, Clinical Associate Professor of Surgery (Urology). Attending Surgeon (Urology), New York Hospital. A.B. 1947, Princeton University; M.D. 1951, University of Pennsylvania. (1956; 1972)
- Manoucher Khadari, Clinical Instructor in Pediatrics. M.D. 1964, Tehran Medical School (Iran). (1979)
- Inocencio Kho, Clinical Instructor in Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital, B.S. 1963 and M.D. 1968, University of Santo Tomas (Philippines). (1971; 1975)
- Elizabeth T. Khuri, Clinical Assistant Professor of Public Health, Fellow in Pediatrics, Clinical Affiliate in Pediatrics, New York Hospital. B.A. 1953, Mount Holyoke College; M.D. 1957, Temple University. (1970: 1978)
- Howard D. Kibel, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1958, Columbia University; M.D. 1962, State University of New York. (1978)
- John G. Kidd, Emeritus Professor of Pathology. A.B. 1928, Duke University; M.D. 1932, Johns Hopkins University. (1944)
- Timothy Kiehn, Assistant Professor of Microbiology in Medicine. Assistant Attending Medical Microbiologist, Memorial Hospital; Associate Director, Diagnostic Microbiology Laboratory, Memorial Sloan-Kettering Cancer Center. B.S. 1961, University of Notre Dame; B.S. 1963, University of Washington; M.S. 1967 and Ph.D. 1971, University of Arizona. (1975; 1979)
- Catherine Kierney, Instructor in Pediatrics. M.B.B.Ch. 1971, University of Glasgow (Scotland). (1978)
- Ari Kiev, Clinical Associate Professor of Psychiatry (Social Psychiatry). Associate Attending Psychiatrist, New York Hospital. A.B. 1954, Harvard University; M.D. 1958, Cornell University. (1967)
- Hae A. Kim, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1958, Seoul National University (Korea). (1969; 1973)
- Jae Ho Kim, Professor of Radiology. Associate Attending Radiologist, New York Hospital. Associate Attending Radiation Therapist, Memorial Hospital. M.D. 1959, Medical School Taigu (Korea); Ph.D. 1963, University of Iowa. (1973; 1980)
- Wooshin Kim, Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1966, Seoul National University (Korea). (1977)
- Robert Kimberly, Assistant Professor of Medicine. Clinical Fellow, New York Hospital. A.B. 1968, Princeton University; M.D. 1973, Harvard University; M.A. 1978, Oxford University. (1979)
- Arnold D. King, Clinical Assistant Professor of Ophthalmology. Attending Ophthalmologist, North Shore University Hospital. B.S. McGill University (Canada); M.D. 1959, State University of New York. (1974)
- Mary Elizabeth King, Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital.

- B.A. 1947, Smith College; M.D. 1951, Columbia University. (1979)
- Thomas K. C. King, Associate Professor of Medicine. Clinical Associate Professor of Medicine in Physiology. Associate Attending Physician, New York Hospital. M.B.Ch.B. 1959 and M.D. 1963, University of Edinburgh (Scotland). (1970; 1975)
- David W. Kinne, Associate Professor of Surgery. Assistant Attending Surgeon, Breast Service, Memorial Hospital. A.B. 1957, Columbia University; M.D. 1964, State University of New York. (1971; 1980)
- Frederic T. Kirkham, Clinical Professor of Medicine; Clinical Associate Professor of Public Health. Attending Physician, New York Hospital. M.D. 1947, Cornell University. (1948; 1973)
- Kenneth Kirstein, Clinical Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1971, City University of New York; M.D. 1975, State University of New York. (1977; 1980)
- Ethan H. Kisch, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1973 and M.D. 1976, Boston University. (1979; 1980)
- Frank David Kitchin, Associate Professor of Clinical Medicine; Associate Professor of Clinical Ophthalmology, M.B.Ch.B. 1947, University of Liverpool; M.R.C.P. 1954, University of London; M.D. 1959, University of Liverpool (England). (1979)
- Howard M. Klac, Instructor in Psychiatry, Clinical Affiliate, New York Hospital. B.A. 1969, Brooklyn College; M.D. 1976, State University of New York Downstate Medical Center. (1980)
- Phyllis C. Klass, Instructor in Medicine; Assistant Professor of Genetic Counseling in Obstetrics; Assistant Professor of Genetics in Pediatrics. B.A. 1947, Syracuse University; M.A. 1948, Columbia University; M.S. 1972, Sarah Lawrence College. (1972: 1980)
- Arthur A. Klein, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1968, Massachusetts Institute of Technology; M.D. 1972, State University of New York. (1973; 1976)
- Harvey Klein, Associate Professor of Clinical Medicine. Associate Attending Physician, New York Hospital. B.A. 1959, University of Chicago; M.D. 1963, Harvard University. (1964; 1979)
- Ludwig Klein, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1955, Brooklyn College; M.D. 1959, Union University. (1964; 1976)
- Ralph Klein, Assistant Professor of Psychiatry. North Shore University Hospital Staff, B.A. 1966, Hamilton College; M.D. 1970, New York Medical College. (1973; 1980)
- Morton J. Kleiner, Clinical Instructor in Medicine. B.A. 1970, Yeshiva University; M.D. 1974, New York Medical College. (1975; 1979)
- Paul D. Kligfield, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1966, Queens College; B.M.S. 1968, Dartmouth Medical School; M.D. 1970, Harvard University. (1977)
- Susan Anderson Kline, Associate Professor of Clinical Medicine. Associate Attending Physician, New York Hospital. B.A. 1959, Ohio University; M.D. 1963, Northwestern University. (1967; 1979) Gerald H. Klingon, Clinical Associate Professor of

- Neurology. Associate Attending Neurologist, New York Hospital; Associate Attending Physician, Department of Neurology, Memorial Hospital. A.B. 1942, Columbia University; M.D. 1945, Cornell University. (1953; 1969)
- Raoul Kloogman, Clinical Assistant Professor of Medicine. Honorary Staff Physician, North Shore University Hospital, M.D. 1946, University of Basel (Switzerland). (1972; 1978)
- Jeffrey Kluger, Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital, A.B. 1967, Columbia University; M.D. 1971, New York Medical College. (1975; 1978)
- Barry J. Klyde, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1969, Cornell University; M.D. 1974, Stanford University. (1975; 1979)
- William H. Knapper, Associate Professor of Clinical Surgery, Associate Attending Surgeon (Gastric and Mixed Tumor Service); Assistant Attending Surgeon, Pediatric Surgical Service, Memorial Hospital. M.D. 1962, Temple University. (1968; 1979)
- Joseph Kochen, Professor of Pediatrics. Chief, Division of Pediatric Hematology-Oncology, North Shore University Hospital. B.S. 1952 and Ph.D. 1956. McGill University (Canada); M.D. 1960, University of Rochester. (1978)
- James H. Kocsis, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1964, Amherst College; M.D. 1968, Cornell University. (1972; 1976)
- Hedwig Koenig, Adjunct Associate Professor of Pediatrics. Consultant, New York Hospital. B.A. 1918, Barnard College; M.A. 1920, Columbia University; M.D. 1929, Johns Hopkins University. (1978)
- Harold Koenigsberg, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1967 and M.A. 1969, Columbia University; M.D. 1974, Albert Einstein College of Medicine. (1977; 1979)
- Richard N. Kohl, Professor of Psychiatry. Attending Psychiatrist, New York Hospital. Deputy Medical Director, Payne Whitney Psychiatric Clinic, New York Hospital. B.A. 1938 and M.D. 1942, University of Cincinnati. (1946; 1971)
- Garyfallia Kokkini, Clinical Instructor in Pediatrics. M.D. 1970 and D.M.Sc. 1979, University of Athens School of Medicine (Greece). (1979)
- Sheldon Konigsberg, Instructor in Medicine. Clinical Assistant, Memorial Hospital. B.A. 1971, Emory University; M.D. 1975, Columbia University; M.P.H. 1975, Harvard University. (1979)
- Jonathan W. Konovitch, Clinical Instructor in Anesthesiology. Assistant Attending Anesthetist, Manhattan Eye, Ear, and Throat Hospital. M.D. 1974, Pontificia Universidad Javeriana (Colombia). (1979)
- Richard G. Kopff, Jr., Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1956 and M.D. 1960, Cornell University. (1978; 1979)
- Stephanie Korn, Assistant Professor of Clinical Pediatrics. Assistant Attending Pediatrician, New York Hospital. A.B. 1971 and M.D. 1973, Boston University. (1974; 1980)
- Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics). Attending Immunologist, Hospital for Special Surgery. B.A. 1947, Brook-

- lyn College; M.S. 1948 and Ph.D. 1950, Ohio State University. (1961; 1962)
- Seymour M. Koteen, Clinical Assistant Professor of Surgery (Dentistry). Associate Attending Dentist (Periodontist), New York Hospital, D.D.S. 1941, New York University, College of Dentistry. (1977)
- lone A. Kourides, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.A. 1963, Wellesley College; M.D. 1967, Harvard University. (1977)
- Danica N. Kovachev, Assistant Professor of Clinical Surgery, Clinical Affiliate in Surgery (Plastic Surgery), New York Hospital. Assistant Attending Surgeon, Plastic and Reconstructive Service, Memorial Hospital. M.D. 1947, Medical Faculty, University of Belgrade (Yugoslavia). (1968; 1980)
- Benjamin Koziner, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.S. 1962, College No. 12, Buenos Aires; M.D. 1967, University of Buenos Aires (Argentina). (1974; 1977)
- Howard Kraft, Clinical Instructor in Obstetrics. B.S. 1971, St. Lawrence University; M.D. 1975, State University of New York Downstate Medical Center. (1976: 1980)
- Elmer E. Kramer, Professor of Obstetrics and Gynecology; Clinical Professor of Pathology. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935 and M.D. 1938, Tulane University. (1946;
- Herbert E. Kramer, Instructor of Bioengineering in Surgery. Director of Prosthetics and Orthotics, Hospital for Special Surgery. B.S. 1969, New York University. (1969)
- Samuel Kramer, Clinical Instructor in Psychiatry. Active Staff, North Shore University Hospital. B.A. 1956, Brooklyn College; M.D. 1962, University of California. (1972)
- Irwin H. Krasna, Clinical Instructor in Surgery. Junior Assistant Attending Surgeon (Thoracic), North Shore University Hospital. B.A. 1950, Yeshiva University; M.D. 1955, Chicago Medical School. (1974)
- Alfred N. Krauss, Associate Professor of Pediatrics. Clinical Associate Professor of Pediatrics in Physiology. Associate Attending Pediatrician, New York Hospital. A.B. 1959 and M.D. 1963, Cornell University. (1965; 1976)
- Herbert H. Krauss, Adjunct Associate Professor of Psychology in Psychiatry. B.S. 1961 and M.S. 1962, Pennsylvania State University; Ph.D. 1966, Northwestern University. (1979)
- Mary Jeanne Kreek, Adjunct Associate Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1958, Wellesley College; M.D. 1962, Columbia University. (1963; 1978)
- Ben Kritchman, Clinical Assistant Professor of Pediatrics. Assistant Attending Physician in Pediatrics, New York Hospital. B.S. 1936, New York University; M.D. 1941, Lausanne University (Switzerland).
- George Krol, Assistant Professor of Radiology. Assistant Attending Radiologist, Memorial Hospital, M.D. 1968, Medical School in Krakow (Poland).
- Lennart Krook, Professor of Radiology. Associate Professor of Pathology, New York College of Veterinary Medicine, Cornell University. D.V.M. 1953 and Ph.D. 1957, Royal Veterinary College (Sweden). (1973) Merle S. Kroop, Clinical Assistant Professor of Psychi-

- atry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1959, University of Florida; M.D. 1970, University of Miami. (1973; 1980)
- Susan E. Krown, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. A.B. 1967, Barnard College; M.D. 1971, State University of New York. (1977)
- Lawrence S. Kryle, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. A.B. 1941, Dartmouth College; M.D. 1944, New York University. (1971; 1973)
- Erwin O. Kubec, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1955, Fordham University; M.D. 1959, New York Medical College. (1972; 1976)
- Mamoru Kumada, Adjunct Professor of Neurobiology in Neurology. M.D. 1962 and Ph.D. 1967, University of Tokyo (Japan). (1974; 1976)
- Henry G. Kunkel, Adjunct Professor of Medicine. A.B. 1938, Princeton University; M.D. 1942, Johns Hopkins University. (1973)
- Frederic R. Kunken, Clinical Associate Professor of Surgery, Director, Department of Dentistry, North Shore University Hospital. B.S. 1963 and M.D. 1967, University of Pittsburgh. (1974; 1978)
- Martin Kurtz, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1942, Columbia College; M.D. 1948, New York University. (1971; 1975)
- Robert Kurtz, Assistant Professor of Medicine. Assistant Attending Physician, Department of Medicine, Memorial Hospital. A.B. 1964, University of Pennsylvania; M.D. 1968, Jefferson Medical College. (1969;
- Phillip Kuslansky, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1961, Queens College; M.D. 1965, State University of New York. (1975; 1978)
- Ludwika Kuszewska, Instructor in Otorhinolaryngology. M.D. 1965, Medical Academy in Wroclaw (Poland).
- Joseph H. Kutch, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital, B.S. 1937 and M.D. 1941, Boston University. (1980)
- Henn Kutt, Associate Professor of Neurology; Associate Professor of Neurology in Pharmacology. Associate Attending Neurologist, New York Hospital. M.D. 1950, University of Frankfurt (West Germany). (1955; 1971)
- Irene Labourdette, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Oberlin College; M.A. 1954, State University of Iowa; M.D. 1961, Columbia University. (1978)
- Samuel B. Labow, Clinical Instructor in Surgery. B.Sc. 1958 and M.D.C.M. 1962, McGill University (Canada). (1975)
- Juliana Rasic Lachenmayer, Clinical Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1964, Manhattanville College; M.A. 1968, University of North Carolina; Ph.D. 1976, Columbia University. (1979)
- Mortimer J. Lacher, Clinical Associate Professor of Medicine. Associate Attending Physician, Hema-

- tology-Lymphoma Service, Memorial Hospital. B.A. 1951, Syracuse University; M.D. 1955, Chicago Medical School. (1961; 1978)
- Alberto Lacoius-Petruccelli, Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1952, Faculty of Medicine (Uruguay).
- Lucy Bergson La Farge, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1969, Radcliffe College; M.D. 1976, Albert Einstein College of Medicine. (1979)
- Charlotte Lafer, Clinical Assistant Professor of Pediatrics. Attending Pediatrician, North Shore University Hospital. B.A. 1953, University of Rochester; M.D. 1957, Columbia University. (1975)
- Edmund Francis LaGamma Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1973, City College of New York; M.D. 1976, New York Medical College. (1977; 1980)
- Robert G. Lahita, Adjunct Assistant Professor of Medicine. Adjunct Assistant Professor of Pharmacology. Clinical Affiliate, New York Hospital. B.S. 1967, St. Peter's College; M.D. 1973, Jefferson Medical College; Ph.D. 1973, Thomas Jefferson University. (1974; 1979)
- Chun-Yen Lai, Adjunct Professor of Biochemistry. B.S. 1953 and M.S. 1957, National Taiwan University (Republic of China); Ph.D. 1961, University of Illinois. (1977)
- Peter L. Laino, Clinical Associate Professor of Ophthalmology. Associate Attending Ophthalmologist, New York Hospital. Assistant Attending Surgeon (Ophthalmology), Pediatric Surgical Service, Memorial Hospital, B.S. 1954, Brooklyn College; M.D. 1963, University of Geneva (Switzerland). (1965; 1975)
- Eleanor C. Lambertsen, Professor of Nursing in Medicine. B.S. 1949, M.A. 1950 and Ed.D. 1957, Teachers College. (1979)
- Charles S. LaMonte, Associate Professor of Clinical Medicine. Associate Attending Physician, Cardiopulmonary Service, Memorial Hospital. A.B. 1956 and M.D. 1960, Harvard University. (1961; 1979)
- Phyllis Landau, Instructor in Pediatrics, B.S. 1965. Cornell University, M.D. 1971, New York Medical College. (1979)
- Robert Landesman, Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia University; M.D. 1939, Cornell University Medical College. (1946; 1971)
- Bernard Landis, Clinical Associate Professor of Psychology in Psychiatry; Clinical Associate Professor of Psychology in Surgery. Associate Attending Psychologist, New York Hospital. B.S. 1948, Syracuse University; M.A. 1959 and Ph.D. 1963, New School for Social Research. (1963; 1977)
- Allison B. Landolt, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1941, Princeton University; M.D. 1944, Columbia University. (1958; 1979)
- Frederick E. Lane, Emeritus Clinical Associate Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, North Shore University Hospital. A.B. 1928 and M.D. 1932, Columbia University. (1971; 1978)
- Joseph M. Lane, Associate Professor of Surgery

- (Orthopedics). Associate Attending Surgeon, New York Hospital. Chief, Bone Service, Memorial Hospital. A.B. 1961, Columbia University; M.D. 1965, Harvard University. (1976; 1979)
- Paul B. Lang, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital, B.A. 1969, New York University; M.D. 1973, Cornell University. (1978; 1979)
- Jerry Lanoil, Clinical Instructor of Psychology in Psychiatry. M.A. 1968 and Ph.D. 1974, New School for Social Research. (1977; 1980)
- Aaron Lantz, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1962, Brooklyn College; M.S. 1968, New York University; M.D. 1968, Tulane University. (1971; 1977)
- John H. Laragh, Hilda Altschul Master Professor of Medicine: Director of the Cardiovascular Center. Attending Physician, New York Hospital. M.D. 1948, Cornell University. (1975)
- James J. LaRosa, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.S. 1971, Fordham University; M.D. 1975, New York Medical College. (1976; 1978)
- Martha C. Larsen, Clinical Assistant Professor of Medicine. Assistant Attending Physician, Admitting and Diagnostic Service, Memorial Hospital. B.A. 1950, Carleton College; B.S. 1951 and M.D. 1954, University of Minnesota. (1957: 1974)
- Stephen LaSala, Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. B.S. 1966, St. John's University; M.D. 1973, University of Montpellier (France). (1977)
- Ludwig G. Laufer, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell University. (1956; 1969)
- John S. Laughlin, Professor of Radiology in Physics. A.B. 1940, Williamette University; M.S. 1942, Haverford College; Ph.D. 1947, University of Illinois. (1980)
- Russell W. Lavengood, Clinical Professor of Surgery (Urology), Attending Surgeon (Urology), New York Hospital. M.D. 1951, University of Louisville. (1956;
- Ferne Lavine, Instructor in Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital. B.A. 1972, Douglass College; M.D. 1976, College of Medicine of New Jersey. (1978)
- Uri Lavy, Assistant Professor of Pediatrics, North Shore University Hospital Staff. M.D. 1960, Hebrew University (Israel). (1972; 1973)
- Michael Hugh Lavyne, Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. A.B. 1968, Williams College; M.D. 1972, Cornell University. (1979)
- Ruth F. Lax, Clinical Associate Professor of Psychology in Psychiatry. B.A. 1947, M.A. and Ph.D. 1961, New York University. (1977; 1979)
- Zoe Lazar, Instructor of Psychology in Psychiatry. A.B. 1969, Brandeis University; Ed.M. 1972 and Ed.D. 1974, Boston University. (1975; 1978)
- Donald J. Leahy, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. M.D. 1948, New York Medical College. (1972)
- Robert H. Leaming, Clinical Assistant Professor of Radiology. Assistant Attending Radiation Therapist,

- Memorial Hospital. B.Sc. 1942, Rutgers University; M.D. 1945, Jefferson Medical College. (1969; 1977)
- Joseph M. Leavitt, Clinical Assistant Professor of Surgery (Dentistry). Assistant Attending Dentist (Endodontist), New York Hospital. B.S. 1936, Oklahoma University; D.D.S. 1940, Columbia University, School of Dental Surgery. (1977)
- Neil Lebowitz, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1963, Williams College; M.D. 1967, State University of New York. (1977)
- B. Douglass Lecher, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1941, University of Arkansas; M.D. 1945, Middlesex School of Medicine. (1971; 1976)
- Joshua Lederberg, Adjunct Professor of Genetics in Medicine. President, Rockefeller University. B.A. 1944, Columbia College; Ph.D. 1947, Yale University. (1978)
- Marguerite S. Lederberg, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1957, Bryn Mawr College; M.D. 1961, Yale University. (1979)
- William J. Ledger, Given Foundation Professor of Obstetrics and Gynecology (Chairman). B.A. 1954, Princeton University; M.D. 1958, University of Pennsylvania. (1979)
- Joseph E. Le Doux, Assistant Professor of Neurobiology in Neurology. B.A. 1971 and M.A. 1974, Louisiana State University; Ph.D. 1977, State University of New York. (1978; 1980)
- Benjamin C.P. Lee, Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital. M.B.B.S. 1966, St. Bartholomew's Hospital Medical College (England), (1977)
- Burton J. Lee, Associate Professor of Clinical Medicine. Attending Physician, Hematology-Lymphoma Service, Memorial Hospital. A.B. 1952, Yale University; M.D. 1956, Columbia University. (1960; 1979)
- Chin Ok Lee, Assistant Professor of Physiology. M.S. 1967, Seoul National University (Korea); Ph.D. 1973, Indiana University. (1976)
- Chin W. Lee, Clinical Instructor in Surgery. M.D. 1964, Seoul National University (Korea). (1973; 1974)
- Jason C. Lee, Clinical Assistant Professor of Surgery (Dentistry). Assistant Attending Surgeon (Prosthodontists), New York Hospital. D.D.S. 1962, National Taiwan University (Republic of China); D.D.S. 1967, New York University. (1977)
- Michael M. Lee, Clinical Instructor of Anesthesiology in Psychiatry. Clinical Affiliate, New York Hospital. M.D. 1966, Seoul National University (Korea). (1977)
- Robert E. Lee, Clinical Assistant Professor of Medicine. Clinical Assistant Professor of Medicine in Psychiatry, A.B. 1948, Colgate University; M.D. 1952, Cornell University. (1955; 1980)
- Robert D. Leeper, Associate Professor of Clinical Medicine. Attending Physician, Endocrinology Service, Memorial Hospital. B.S. 1949, University of Idaho; M.D. 1953, Columbia University. (1962; 1979)
- Henry J. Lefkowits, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.A. 1948 and M.D. 1952, New York University. (1967; 1972)
- Sheldon D. Leidner, Clinical Assistant Professor of

- Medicine. B.A. 1968, Brooklyn College; M.D. 1972, New York Medical College. (1975; 1980)
- Marc S. Lemchen, Clinical Instructor in Surgery (Dentistry). Clinical Affiliate, New York Hospital. B.A. 1966, Lafayette College; D.M.D. 1970, Tufts University. (1977)
- Keith A. Lepp, Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1973, University of Nebraska: M.D. 1976, Nebraska Medical College.
- Leo R. Lese, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. Assistant Attending Physician, Dermatology Service, Memorial Hospital. B.A. 1951, New York University; M.D. 1955, New York State University. (1958; 1975)
- Bruce R. Leslie, Assistant Professor of Medicine; Assistant Professor of Biochemistry; Assistant Professor of Surgery. Assistant Attending Physician: Assistant Attending Surgeon, New York Hospital. A.B. 1967 and M.D. 1972, Harvard University. (1972;
- Louis J. Lester, Clinical Associate Professor of Surgery. Attending Surgeon, North Shore University Hospital, B.A. 1936, University College: M.D. 1939. University of Toronto (Canada). (1971; 1973)
- Robert Lee Letcher, Instructor in Medicine, Clinical Affiliate in Medicine, New York Hospital. M.D. 1974, Columbia University. (1976)
- Jack Levenbrown, Assistant Professor of Radiology. B.A. 1964, Yeshiva University: M.D. 1968, George Washington University. (1976; 1979)
- Alexander Levi, Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1967, Trinity College; M.B.A. 1969, Columbia University; M.A. 1973 and Ph.D. 1975, Adelphi University. (1979)
- Patrizia A. Levi, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, M.D. 1966, University of Florence (Italy). (1973; 1980)
- Roberto Levi, Professor of Pharmacology. M.D. 1960, University of Florence (Italy). (1966; 1977)
- Aaron R. Levin, Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.Sc. 1948 and M.B.B.Ch. 1953, University of the Witwatersrand (South Africa); D.C.H. 1960, University of London; M.R.C.P., 1960, University of Edinburgh (Scotland); M.D. 1968, University of the Witwatersrand (South Africa). (1966; 1974)
- Leroy R. Levin, Clinical Assistant Professor of Surgery Senior Assistant Attending Surgeon, North Shore University Hospital. B.A. 1958, New York University; M.D. 1962, State University of New York. (1977;
- Molly Levin, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.S. 1973, Yale University; M.D. 1977, Cornell University. (1978;
- Richard Levin, Visiting Instructor in Medicine. B.S. 1970, Yale University; M.D. 1974, New York University. (1979)
- David B. Levine, Professor of Clinical Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital. Attending Orthopedic Surgeon, Associate Director, Orthopedic Surgery, Hospital for Special Surgery. M.D. 1957, State University of New York. (1962; 1979)

- David J. Levine, Clinical Instructor in Surgery (Dentistry). Assistant Attending Dentist (Pedodontist), New York Hospital. B.S. 1968, University of Cincinnati; D.D.S. 1972, New York University, College of Dentistry. (1977)
- David Y. Levine, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1956, University of Michigan; M.A. 1957, Harvard University; M.D. 1961, New York University. (1975; 1977)
- Lenore S. Levine, Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1954, Vassar College; M.D. 1958, New York University. (1960; 1976)
- Melvin Levine, Clinical Instructor in Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. M.D. 1960, State University of New York. (1971)
- Milton I. Levine. Emeritus Clinical Professor of Pediatrics. Attending Pediatrician, New York Hospital. B.S. 1923, College of the City of New York; M.D. 1927, Cornell University. (1933; 1972)
- Geraldine L. Levitt, Clinical Instructor in Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. B.A. 1948, New York University; M.D. 1953, New York Medical College. (1971)
- David Edward Levy, Associate Professor of Neurology. Assistant Attending Neurologist, New York Hospital, A.B. 1963 and M.D. 1968, Harvard University. (1969;
- Elizabeth Levy, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1943 and M.D. 1954, University of Michigan, (1976)
- Morton Levy, Clinical Assistant Professor of Pediatrics. Attending Pediatrician, North Shore University Hospital. B.A. 1957, Washington University; M.D. 1961, State University of New York. (1973)
- Alfred B. Lewis, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1949, Harvard University; M.D. 1953, University of Pennsylvania. (1956: 1979)
- John L. Lewis, Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. Attending Surgeon and Chief, Gynecology Service, Memorial Hospital. B.S. 1952 and M.D. 1957, Harvard University. (1968; 1971)
- John S. Lewis, Clinical Assistant Professor of Surgery. Associate Attending Surgeon (Otorhinolaryngology), Head and Neck Service, Memorial Hospital. M.D. 1943, University of Alberta (Canada). (1952; 1964)
- Neville Lewis, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.S. 1973, University of Hartford; M.D. 1977, Columbia University. (1978; 1980)
- Owen Lewis, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1972, University of Pennsylvania; M.D. 1976, Mount Sinai School of Medicine. (1976; 1979)
- Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1940, University of Michigan; M.D. 1944, Johns Hopkins University. (1946; 1966)
- Allyn B. Ley, Clinical Professor of Medicine. A.B. 1939, Dartmouth College; M.D. 1942, Columbia University. (1947; 1971)
- William T. Lhamon, Professor of Psychiatry. Attending

- Psychiatrist, New York Hospital. A.B. 1936 and M.D. 1940, Stanford University. (1946; 1968)
- Edward Y. Liang, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington University; M.D. 1956, Harvard University. (1958; 1966)
- Daniel M. Libby, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1971, Columbia University; M.D. 1974, Baylor College of Medicine. (1979)
- Bruce A. Liberman, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1965, Brooklyn College; M.D. 1970, New York Medical College. (1977)
- Kenneth J. Lichtman, Clinical Instructor in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. B.A. 1964, Rutgers University; M.D. 1971, University of Louvain (Belgium). (1978)
- Dorothy Lieberman, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1956, University of Toronto (Canada). (1971; 1973)
- Jerrold S. Lieberman, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1943 and M.D. 1946, Cornell University. (1951; 1971)
- Kenneth W. Lieberman, Assistant Professor of Biochemistry in Psychiatry. B.A. 1960, Brooklyn College; M.S. 1963, Texas Tech University; Ph.D. 1966, University of Kentucky. (1973; 1979)
- Mark A. Lieberman, Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. M.D. 1965, Tufts University. (1966: 1976)
- Philip H. Lieberman, Professor of Pathology, Attending Pathologist, Memorial Hospital. B.A. 1947 and M.S. 1949, New York University; M.D. 1953, State University of New York (1972; 1979)
- Roy H. Lieberman, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician to Outpatients, New York Hospital. A.B. 1959, Cornell University; M.D. 1963, New York Medical College. (1967; 1978)
- Robert S. Liebert, Adjunct Assistant Professor of Psychiatry. B.S. 1951, Syracuse University; M.A. 1956, Clark University; M.D. 1960, New York University.
- Jerome Harvey Liebowitz, Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.A. 1965, Trinity College; M.D. 1969, Columbia University. (1979)
- Fima Lifshitz, Professor of Pediatrics. Associate Attending Pediatrician, North Shore University Hospital. M.D. 1961, National University of Mexico. (1972; 1976)
- Charles J. Lightdale, Associate Professor of Clinical Medicine. Assistant Attending Physician, Gastroenterology Service, Memorial Hospital. A.B. 1962, Princeton University; M.D. 1966, Columbia University. (1968; 1979)
- Wan Ngo Lim, Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital: Director, Department of Pediatrics, Hospital for Special Surgery. M.D. 1945, Shanghai Medical College (People's Republic of China) (1954; 1970)
- Hong-Zen Lin, Clinical Assistant Professor of Ophthalmology. Associate Ophthalmologist, North Shore

- University Hospital. M.D. 1966, Kaohsiung Medical College (Republic of China). (1972; 1977)
- Irene Lin, Clinical Instructor in Anesthesiology. Active Staff, North Shore University Hospital. A.B. 1962 and M.D. 1966, Columbia University. (1972)
- Robert C. Lin, Clinical Assistant Professor of Anesthesiology. Attending Anesthesiologist, North Shore University Hospital. M.D. 1960, National Defense Medical Center (Republic of China). (1972; 1979)
- Harvey A. Lincoff, Professor of Clinical Ophthalmology. Associate Attending Ophthalmologist, New York Hospital. A.B. 1943, Harvard University; M.D. 1945, University of Pittsburgh. (1960; 1980)
- Ronald M. Linsky, Clinical Assistant Professor of Surgery, Senior Assistant Attending Surgeon, North Shore University Hospital. A.B. 1953 and M.D. 1957, Columbia University. (1972; 1975)
- Martin Lipkin, Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital; Associate Attending Physician, Gastroenterology Service, Memorial Hospital. B.A. 1946 and M.D. 1950, New York University. (1952; 1978)
- Lawrence J. Lippert, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1964, University of Pennsylvania; M.D. 1970, Catholic University of Louvain (Belgium). (1971;
- Edgar L. Lipton, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital, M.D. 1948, Bowman Gray School of Medicine of Wake Forest College. (1975; 1977)
- Louis J. Lissak, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1964, University of Dayton; M.D. 1969, Chicago Medical School. (1973; 1974)
- Stanley Lituchy, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1951 and M.D. 1955, New York University. (1976)
- Stephen D. Litwin, Professor of Medicine. Attending Physician, New York Hospital. B.A. 1955, Brooklyn College; M.D. 1959, New York University. (1969;
- Martin W. Livingston, Clinical Instructor of Anesthesiology in Psychiatry. Clinical Affiliate, New York Hospital. B.S. 1942, Guilford College; M.D. 1945, Middlesex University. (1980)
- Philip O. Livingston, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.A. 1965, Princeton University; M.D. 1969, Harvard University. (1970; 1977)
- Frederic Louis Lizzi, Adjunct Professor of Ophthalmic Physics. B.E.E. 1963, Manhattan College; M.S. 1965 and Sc.D. in Bioengineering 1971, Columbia University. (1979)
- Erlinda L. Lobrin-Farcon, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital; Assistant Attending Anesthesiologist, Hospital for Special Surgery. A.A. 1959 and M.D. 1963, Santo Tomas University (Philippines). (1969; 1973)
- Michael D. Lockshin, Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Hospital for Special

- Surgery. A.B. 1959 and M.D. 1963, Harvard University. (1964: 1975)
- Laurence Loeb, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. 1949, University of Cincinnati; M.D. 1953. State University of New York. (1965: 1971)
- William Loery, Adjunct Assistant Professor of Public Health, S.B. 1942, Harvard University: M.D. 1945. Cornell University; M.P.H. 1952, Columbia University. (1958: 1976)
- Andrew N. Looker, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. A.B. 1964 and M.D. 1969, Harvard University. (1976)
- Ralph I. Lopez, Associate Professor of Clinical Pediatrics. Associate Attending Pediatrician, New York Hospital, B.A. 1963, Fordham College; M.D. 1967, New York University. (1973; 1979)
- Jorge A. Lopez-Ovejero, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. M.D. 1965, University of Buenos Aires (Argentina). (1973; 1977)
- Armand W. Loranger, Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1952, St. Mary's College; M.A. 1955 and Ph.D. 1958. Fordham University.
- Edward J. Lorenze, Adjunct Associate Professor of Medicine (Rehabilitation Medicine). Clinical Affiliate, Rehabilitation Medicine, New York Hospital, M.D. 1946, New York University. (1953; 1978)
- Erica Loutsch, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1961, University of Buenos Aires (Argentina). (1977; 1979)
- Luther B. Lowe, Clinical Associate Professor of Medicine; Clinical Associate Professor of Pediatrics (Dermatology). Clinical Affiliate in Medicine; Associate Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. B.S. 1958, Roanoke College; M.D. 1962, Cornell University. (1964; 1978)
- Irwin S. Lowenthal, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.A. 1956, New York University: M.D. 1964, University of Lausanne (Switzerland). (1977)
- Virginia Lozzi, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. M.D. 1957, University of Rome (Italy). (1979)
- Hai-Chun Lu, Instructor of Biomathematics in Neurology. M.S. 1970, National Tsing Hua University; Ph.D. 1979, Columbia University. (1979)
- M. Philip Luber, Instructor in Psychiatry. B.A. 1973, University of Pennsylvania; M.D. 1976, Columbia University. (1977; 1979)
- E. Hugh Luckey, Professor of Medicine. Attending Physician, New York Hospital. B.S. 1940, Union University; M.D. 1944, Vanderbilt University. (1945; 1966)
- Norton M. Luger, Clinical Associate Professor of Medicine. Clinical Associate Professor of Medicine in Obstetrics and Gynecology. Associate Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, Saint Louis University (1954;
- Arnold Luterman, Assistant Professor of Surgery. Assistant Attending Surgeon. New York Hospital.

- B.Sc. and M.D.C.H. 1970, McGill University (Canada). (1977)
- Mary Lvallen, Clinical Instructor of Psychology in Psychiatry, M.A. 1975 and Ph.D. 1979, Adelphi University. (1976; 1980)
- John P. Lyden, Associate Professor of Clinical Surgery (Orthopedics). Associate Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery, A.B. 1961, Harvard University, M.D. 1965, Columbia University. (1969; 1979)
- Stephen Gordon Lynn, Clinical Instructor in Surgery. B.A. 1969, Swarthmore College; M.D. 1973, Columbia University. (1979)
- Walter R. Lynn, Adjunct Professor of Health Systems Analysis in Public Health. Professor of Environmental Engineering, Cornell University, B.S. 1950, University of Miami; M.S. 1954, University of North Carolina; Ph.D. 1963, Northwestern University. (1971)
- Thomas M. Maack, Professor of Physiology, M.D. 1962, University of Sao Paulo (Brazil). (1969; 1977)
- John C. McCabe, Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. B.A. 1963, University of North Carolina; M.D. 1967, George Washington University. (1968; 1976)
- Paul Jacob Maccabee, Assistant Professor of Neurology, Clinical Affiliate, New York Hospital, B.A. 1965. Albion College; M.D. 1970, Boston University. (1978;
- James P. McCarron, Assistant Professor of Surgery. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1964, Yale University; M.D. 1968, University of Virginia. (1972; 1976)
- Eucharia McCarthy, Clinical Assistant Professor of Pediatrics, M.D. 1964 and D.C.H. 1966, University College (Ireland). (1970; 1979)
- Eugene G. McCarthy, Clinical Professor of Public Health. Clinical Affiliate in Medicine, New York Hospital. B.A. 1956, Boston College; M.D. 1960, Yale University School of Medicine; M.P.H. 1962, Johns Hopkins University. (1970; 1978)
- James R. McCartney, Clinical Associate Professor of Psychiatry. Attending Psychiatrist, North Shore University Hospital, B.A. 1952, Ohio Weslevan College: M.D. 1955, Columbia University. (1971; 1977)
- Bruce B. McConnell, Instructor in Psychiatry. A.B. 1967, Princeton University; M.D. 1971, University of California. (1980)
- John McCormack, Clinical Associate Professor of Anesthesiology. Attending Anesthesiologist, North Shore University Hospital. B.S. 1945, University of South Dakota; M.D. 1949, Cornell University. (1950; 1974)
- Patricia F. McCormack, Assistant Professor of Surgery. Attending Surgeon (Thoracic), New York Hospital. B.A. 1954, Manhattanville College; M.D. 1958, Georgetown University. (1974: 1977)
- Richard R. McCormack, Instructor in Surgery. A.B. 1969 and M.D. 1975, Cornell University. (1977;
- Beryl McCormick, Assistant Professor of Radiology. B.A. 1969, Douglass College; M.D. 1973, New Jersey College of Medicine. (1977; 1980)
- Wallace W. McCrory, Professor of Pediatrics. Pediatrician in Chief, New York Hospital, B.S. 1941 and M.D. 1944, University of Wisconsin. (1949; 1961)

Walsh McDermott, Emeritus Professor of Public Health and Medicine. Honorary Staff, New York Hospital. A.B. 1930, Princeton University; M.D. 1934, Colum-

bia University. (1935; 1975)

Fletcher H. McDowell, Associate Dean; Professor of Neurology; The Winifred Masterson Burke Professor in Rehabilitation Medicine. Attending Neurologist, New York Hospital; Consultant, Memorial Hospital. A.B. 1944, Dartmouth College; M.D. 1947, Cornell University. (1948; 1969)

John Hugh McGovern, Clinical Professor of Surgery (Urology). Attending Surgeon, Urology, New York Hospital. B.S. 1947, Columbia University; M.D. 1952, Long Island College of Medicine. (1954; 1972)

- Thomas P. McGovern, Clinical Assistant Professor of Surgery (Urology). Assistant Attending Surgeon (Urology), New York Hospital. B.E.E. 1968, Manhattan College; M.D. 1974, Cornell University. (1976;
- Lawrence J. Machlin, Adjunct Associate Professor of Nutrition in Medicine. B.S. 1948 and M.N.S. 1949, Cornell University; Ph.D. 1953, Georgetown University. (1979)
- Donald G. McKaba, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.S. 1956, Washington and Lee University; M.D. 1960, Johns Hopkins University. (1961; 1973)
- Kristine MacKain, Instructor of Communication in Psychiatry. B.A. 1971, California State University; M.A. 1972 and Ph.D. 1976, Michigan State University. (1979)
- A. Ranald Mackenzie, Clinical Instructor in Surgery. Assistant Attending Surgeon, Urology, Memorial Hospital. M.B.Ch.B. 1950, University of St. Andrews (Scotland). (1961)
- Matthew J. McKinley, Instructor in Medicine. B.S. 1971, Manhattan College; M.D. 1975, Creighton University. (1976; 1980)
- Reginald D. McLaughlin, Clinical Instructor in Pediatrics. B.A. 1967, Harpur College; M.D. 1971, State University of New York Downstate Medical Center. (1979)
- Alan A. McLean, Adjunct Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. M.D. 1948, Long Island College of Medicine. (1954; 1978)
- George A. McLemore, Clinical Assistant Professor of Medicine. Adjunct Physician, New York Hospital. Assistant Attending Physician, Cardiopulmonary Service, Memorial Hospital. M.D. 1948, Harvard University. (1956; 1964)
- John MacLeod, Emeritus Professor of Anatomy. B.A. 1934 and M.Sc. 1937, New York University; Ph.D. 1941, Cornell University. (1942; 1972)
- Howard A. McManus, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1961, Manhattan College; M.D. 1966, New York Medical College. (1972)
- Charles J. McPeak, Clinical Associate Professor of Surgery. Associate Attending Surgeon (Gastric and Mixed Tumor Service), Memorial Hospital. B.S. 1941 and M.D. 1944, Temple University. (1953; 1979)
- Irvine McQuarrie, Assistant Professor of Physiology; Assistant Professor of Surgery (Neurosurgery). Assistant Attending Surgeon (Neurosurgery). B.S 1961, University of Utah; M.D. 1965 and Ph.D. 1977, Cornell University. (1966; 1977)

- Nicholas T. Macris, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1953, Columbia University; M.D. 1958, State University of New York. (1965; 1977)
- Melinda McVicar, Assistant Professor of Pediatrics. A.B. 1958, University of Pennsylvania; M.D. 1962, Temple University. (1973)
- Arnold S. Maerov, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1960, University of Alberta (Canada). (1966; 1972)
- Louis J. Maggio, Clinical Assistant Professor of Anesthesiology. Associate Attending Anesthesiologist, New York Hospital. A.B. 1956, New York University; M.D. 1960, Seton Hall University. (1961; 1972)
- Gordon B. Magill, Assistant Professor of Medicine. Associate Attending Physician, Solid Tumor Service, Memorial Hospital. A.B. 1944, Princeton University; M.D. 1946, Columbia University. (1956; 1972)
- Jane W. Magill, Assistant Professor of Clinical Medicine. Associate Attending Physician, Admitting and Diagnostic Service, Department of Medicine, Memorial Hospital. B.A. 1943, Smith College; M.D. 1948, Columbia University. (1973; 1979)

Patricia E. Mahoney, Instructor in Neurological-Neurosurgical Nursing. Clinical Specialist, New York Hospital. B.S.N. 1966, Georgetown University; M.A.

1973, New York University. (1979)

- Lionel U. Mailloux, Associate Professor of Clinical Medicine. Attending Physician, North Shore University Hospital. B.S. 1958, Georgetown University; M.D. 1962, Hahnemann Medical College. (1971; 1979)
- Vinod Malhortra, Instructor in Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. M.B.B.S. 1974, University of Delhi (India). (1979)
- Joseph W. Malkary, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. A.B. 1954, Brown University; M.D. 1958, Tufts University. (1972)
- Alan Malter, Assistant Professor of Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1968, New York University; M.D. 1972, Pennsylvania State University. (1975; 1980)
- Alfred Mamelok, Clinical Associate Professor of Ophthalmology. Attending Ophthalmologist, New York Hospital; Attending Surgeon and Chief of Uveitis Clinic, Manhattan Eye, Ear, and Throat Hospital. A.B. 1944, Columbia University; M.D. 1946, New York Medical College. (1953; 1977)
- Joseph John Mann, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.B.B.S. 1971 and M.D. 1978, Melbourne University (Australia). (1980)
- James M. Manning, Adjunct Associate Professor of Biochemistry. B.S. 1960, Boston College; Ph.D. 1966. Tufts University. (1978)
- Henry Mannix, Clinical Associate Professor of Surgery. Clinical Affiliate in Surgery, New York Hospital. B.S. 1947, Holy Cross College; M.D. 1950, Cornell University. (1951; 1965)
- Robert Marantz, Clinical Instructor in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. B.A. 1963, Oberlin College; M.D. 1967, University of Chicago School of Medicine. (1977)
- Benjamin E. Marbury, Emeritus Clinical Professor of Anesthesiology. Assistant Attending Anesthesiolo-

- gist, New York Hospital. B.A. 1939, University of Missouri: M.S. 1941. Louisiana State University: B.S. 1942. University of Missouri: M.D. 1944. Washington University. (1949: 1979)
- Harvey Marchbein, Clinical Instructor in Obstetrics. B.A. 1971, Queens College; M.D. 1975, Medical College of Wisconsin. (1976; 1980)
- Peter J. Marchisello, Clinical Assistant Professor of Anesthesiology, B.S. 1943, Manhattan College; M.D. 1948, New York University. (1965; 1973)
- Mark R. Marciano, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine. New York Hospital. A.B. 1950, Columbia University; M.D. 1954, State University of New York. (1957; 1966)
- Ralph C. Marcove, Clinical Associate Professor of Surgery (Orthopedics). Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Acting Chief, Bone Service, Memorial Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery, B.A. 1950 and M.D. 1954, Boston University. (1963; 1970)
- Aaron J. Marcus, Professor of Medicine. Attending Physician, New York Hospital. B.A. 1948, University of Virginia; M.D. 1953, New York Medical College. (1959; 1974)
- Philip Marcus, Clinical Instructor in Medicine, Assistant Attending Physician, North Shore University Hospital. B.S. 1969, Columbia University; M.D. 1973, State University of New York Downstate Medical Center. (1979)
- Sidney S. Marder, Clinical Assistant Professor of Pediatrics. Assistant Attending Physician in Pediatrics, New York Hospital. B.S. 1936, City College of New York; M.D. 1941, Lausanne University (Switzerland). (1979)
- Donald Margouleff, Associate Professor of Clinical Medicine. Attending Physician, North Shore University Hospital. B.S. 1950, Tufts College; M.D. 1956, Faculty of Medicine, University of Bern (Switzerland), (1971: 1979)
- Paul L. Margulies, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital, B.S. 1966 and M.D. 1970, University of Chicago. (1973; 1978)
- Louis John Marino, Clinical Instructor of Dentistry in Surgery. B.A. 1953, New York University; D.D.S. 1957, Georgetown Dental School. (1979)
- Alicejane Markenson, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. Douglass College; M.S. 1966, Rutgers University; M.D. 1970, Albert Einstein College of Medicine. (1973; 1976)
- Joseph A. Markenson, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1965, Boston University; M.S. 1966, Rutgers University; M.D. 1970, State University of New York. (1973; 1976)
- Jules Markofsky, Adjunct Assistant Professor of Biology in Medicine. B.S. 1963, Queens College; M.S. 1962, University of Oregon; Ph.D. 1971, New York University. (1979)
- Stephen J. Marks, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1967, Cornell University; M.A. 1968, Yale University; M.D. 1974, Johns Hopkins University. (1975; 1980)
- Philip D. Marsden, Adjunct Professor of Medicine, Visit-

- ing Professor of Public Health. M.B.B.S. 1956, University College Hospital; M.D. 1965, University of London (England), (1964: 1979)
- Victor F. Marshall, Professor of Surgery, Attending Surgeon, New York Hospital: Attending Surgeon (Urology), Memorial Hospital. M.D. 1937, University of Virginia. (1938; 1970)
- Frederick W. Martens, Clinical Associate Professor of Obstetrics and Gynecology, Associate Attending Obstetrician and Gynecologist, New York Hospital. M.E. 1949, Stevens Institute of Technology; M.D. 1957, Cornell University, (1959: 1971)
- Robert S. Martin, Clinical Instructor in Medicine. Adjunct Physician, Solid Tumor Service, Memorial Hospital, B.A. 1952, Middlebury College; M.D. 1961, Cornell University. (1962; 1965)
- Nael Martini, Professor of Surgery. Chief, Thoracic Service, Memorial Hospital, B.A. 1951 and M.D. 1955, American University of Beirut (Lebanon). (1968; 1979)
- Vincent F. Marzulli, Clinical Assistant Professor of Surgery, Assistant Attending Surgeon, New York Hospital. B.A. 1949, New York University; M.D. 1955, Bologna Medical School (Italy). (1978)
- I. Ira Mason, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1962, Columbia University; M.D. 1966, Cornell University. (1967; 1971)
- Mary Jane Massie, Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.A. 1969, University of Wyoming; M.D. 1973, State University of New York. (1978; 1979)
- James F. Masterson, Clinical Professor of Psychiatry. Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical School. (1953; 1970)
- Vincent F. Mastrota, Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1954, Villanova University; M.D. 1959, University of Bologna (Italy). (1971; 1977)
- Rene C. Mastrovito, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital; Assistant Attending Physician, Neuropsychiatry Service, Memorial Hospital, A.B. 1949. Cornell University; M.Sc. 1951, Ohio State University; M.D. 1957, Baylor University. (1959; 1977)
- Henry Masur, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1968, Dartmouth College; M.D. 1972, Cornell University. (1975; 1978)
- Milton Masur, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1959, City College of New York; M.D. 1963, Albert Einstein College of Medicine. (1972; 1977)
- Joan H. Mathews, Assistant Professor of Pediatrics. B.S. 1961, University of New Hampshire; M.D. 1965, Columbia University, (1979)
- George Matthew, Clinical Instructor in Pediatrics. M.Sc. 1961, Wilson College, Bombay University (India); M.D. 1966, Kottauam Medical College. (1979)
- Marlin R. Mattson, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1961 and M.D. 1965, University of Washington. (1970; 1979)
- Kenneth F. Mattucci, Clinical Assistant Professor of

- Otorhinolaryngology, Associate Attending Otorhinolaryngologist, Department of Surgery, North Shore University Hospital, B.A. 1960, Alfred University: M.D. 1964, Bowman Gray School of Medicine. (1965; 1977)
- Carmine J. Mauro, Clinical Assistant Professor of Surgery, Assistant Attending Surgeon, New York Hospital, B.S. 1946, St. John's University; M.D. 1950, Georgetown University (1978)
- Irving H. Mauss, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, North Shore University Hospital, B.S. 1935 and M.D. 1940. Royal College of Physicians and Surgeons (Scotland), (1971; 1972)
- Mitchell B. Max, Instructor of Clinical Neurology, B.A. 1970, Yale College; M.D. 1974, Harvard University. (1978; 1980)
- David A. Mayer, Clinical Instructor in Surgery, Clinical Affiliate, Department of Surgery, New York Hospital. A.B. 1970, Lafayette College; M.D. 1974, Cornell University. (1974; 1978)
- Joseph C. Mayer, Adjunct Assistant Professor of Psychiatry, Psychiatrist, North Shore University Hospital. A.B. 1952, and M.D. 1956, University of Pennsylvania. (1978)
- Klaus Mayer, Professor of Clinical Medicine, Attending Physician, New York Hospital: Attending Physician. Hematology-Lymphoma Service, Memorial Hospital: Attending Hematologist and Director of Blood Bank. Hospital for Special Surgery, B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groningen (Switzerland). (1958; 1979)
- Judah Maze, Clinical Instructor in Psychiatry, Staff Psychiatrist, North Shore University Hospital, A.B. 1955, Columbia University; M.D. 1960, State University of New York. (1975)
- David M. Mazor, Clinical Assistant Professor of Surgery. Associate Attending Surgeon (Urology), North Shore University Hospital A.B. 1959. University of Rochester: M.D. 1965. University of Bologna (Italy), (1972; 1977)
- Paul Mazzarella, Clinical Assistant Professor of Obstetrics and Gynecology, Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital, B.A. 1959, Lafayette College; M.D. 1966, University of Bologna (Italy). (1973; 1980)
- Allen W. Mead, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.S. 1949, Davidson College; M.D. 1953, Cornell University. (1954; 1975)
- Sharon C. Mead, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. M.D. 1955, University of Chicago. (1973)
- Frank N. Medici, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital, B.S. 1957, Manhattan College: M.D. 1961, State University of New York. (1963; 1977)
- Deborah L. Mednick, Instructor of Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1973, University of Pennsylvania; M.D. 1977, Temple University. (1978; 1980)
- Thomas C. Meehan, Clinical Instructor in Psychiatry. Chief, Adult Inpatient Service, Department of Psychiatry, North Shore University Hospital. B.S. 1969, Fairfield University; M.D. 1973, Columbia University.
- Thomas H. Meikle, Dean; Professor of Anatomy. A.B.

- 1951 and M.D. 1954. Cornell University. (1961: 1980)
- Barry Meisel, Clinical Instructor of Obstetrics and Gynecology in Psychiatry, Clinical Affiliate in Psychiatry, New York Hospital. M.D. 1970, New York Medical College. (1979)
- Alton Meister, Israel Rogosin Professor of Biochemistry (Chairman). Biochemist in Chief, New York Hospital. B.S. 1942, Harvard University; M.D. 1945, Cornell University. (1946: 1967)
- Myron R. Melamed, Professor of Pathology, Attending Pathologist, Memorial Hospital, B.S. 1947, Western Reserve University: M.D. 1950. University of Cincinnati, (1973; 1979)
- Jane W. Mellors, Associate Professor of Biochemistry in Surgery (Orthopedics). Assistant Scientist, Hospital for Special Surgery. B.A. 1936, Vassar College; Ph.D. 1942, Yale University. (1972; 1979)
- Robert C. Mellors, Professor of Pathology. Attending Pathologist, New York Hospital; Director and Pathologist in Chief, Department of Laboratories Hospital for Special Surgery, B.A. 1937, M.A. and Ph.D. 1940, Western Reserve University; M.D. 1944, Johns Hopkins University, (1961)
- Robert N. Melnick, Clinical Instructor in Obstetrics and Gynecology, Assistant Attending Obstetrician and Gynecologist, New York Hospital, B.S. 1950 and M.D. 1953, Yale University, (1957: 1961)
- Nelson I. Mendell, Clinical Assistant Professor of Surgery (Dentistry). Assistant Attending Dentist (Endodontist), New York Hospital. A.B. 1961, University of Pennsylvania; D.M.D. 1965, Tufts University. (1977)
- Eric Mendelsohn, Instructor of Psychology in Psychiatry, Professional Associate, New York Hospital. B.S. 1972. State University of New York: Ph.D. 1979. Yeshiva University. (1976; 1980)
- Jacob M. Meron, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital, B.A. 1962 and M.D. 1966, New York University. (1979)
- Roland H. Mertelsmann, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. M.D. 1972, University of Gottingen (West Germany). (1978)
- Charles W. Merten, Associate Professor of Clinical Radiology. Assistant Attending Radiologist, North Shore University Hospital, M.D. 1949, Harvard University. (1970; 1979)
- Taghi Meshkati, Clinical Instructor in Surgery, Attending Staff, North Shore University Hospital. M.D. 1959, Tehran University (Iran). (1977)
- Steven R. Meshnick, Assistant Professor of Medicine. A.B. 1972, Columbia University; Ph.D. 1978, Rockefeller University; M.D. 1979, Cornell University. (1979; 1980)
- William J. Messinger, Clinical Professor of Medicine. Consultant, Department of Medicine, North Shore University Hospital. B.A. 1933, University of Rochester; M.A. and M.D. 1936, George Washington School of Medicine. (1972; 1978)
- Barnett S. Meyers, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1962, Brandeis University; M.D. 1966, New York University. (1978)
- Michael B. Meyers, Clinical Assistant Professor of Anesthesiology. Attending Anesthesiologist, North

- Shore University Hospital, B.A. 1969, New York University; M.D. 1973, Jefferson Medical College. (1978: 1979)
- Paul A. Meyers, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital, A.B. 1970, Brown University; M.D. 1973, Mount Sinai School of Medicine. (1979)
- Salman I. Michael, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital, M.D. 1948, Royal College of Medicine (Iraq). (1973)
- Robert Michels, Barklie McKee Henry Professor of Psychiatry (Chairman). Psychiatrist-in-Chief, New York Hospital. B.A. 1953 and M.D. 1958, Northwestern University. (1974)
- Valerie Miké, Clinical Professor of Biostatistics in Public Health, B.A. 1956, Manhattanville College: M.S. 1959 and Ph.D. 1967, New York University. (1970;
- Thomas V. Miles, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, Hospital for Special Surgery, B.S. 1941, Notre Dame University; M.D. 1945, Long Island College of Medicine. (1973)
- Ade T. Milhorat, Emeritus Clinical Professor of Medicine. Honorary Staff, New York Hospital. A.B. 1924, Columbia University; M.D. 1928, Cornell University. (1927; 1964)
- Carlyle Harvey Miller, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1971, Columbia University; M.D. 1975, Cornell University. (1978; 1980)
- Connie Haisty Miller, Instructor in Genetics in Pediatrics. B.S. 1972, East Texas State University: Ph.D. 1977, University of North Carolina. (1977)
- Daniel G. Miller, Clinical Associate Professor of Medicine. Clinical Associate Professor of Public Health. Associate Attending Physician, Hematology-Lymphoma Service, Memorial Hospital. B.A. 1945, Colgate University; M.D. 1948, State University of New York. (1957: 1975)
- Daniel W. Miller, Assistant Professor of Physics in Radiology, Assistant Attending Physicist, Department of Medical Physics, Memorial Hospital. B.S. 1961 and Ph.D. 1971, North Carolina State University. (1978)
- Denis R. Miller, Professor of Pediatrics. Attending Pediatrician, New York Hospital: Associate Attending Pediatrician, Memorial Hospital. A.B. 1955 and M.D. 1959, Cornell University. (1970; 1975)
- Harvey Miller, Clinical Assistant Professor of Surgery (Dentistry), New York Hospital. Assistant Attending Dentist (Myo-Functional Therapy), New York Hospital. D.D.S. 1945, University of Pittsburgh, School of Dentistry. (1977)
- Theodore R. Miller, Emeritus Clinical Professor of Surgery. Attending Surgeon, Bone Service, Senior Staff, Memorial Hospital. M.D. 1933, Temple University. (1952; 1978)
- Robert B. Millman, Clinical Professor of Public Health, Clinical Assistant Professor of Psychiatry, Clinical Affiliate in Medicine, New York Hospital. Assistant Attending Psychiatrist, New York Hospital; Adjunct Assistant Professor, Rockefeller University. A.B. 1961, Cornell University; M.D. 1965, State University of New York Downstate Medical Center. (1968;
- George W. Miner, Clinical Instructor in Surgery.

- Assistant Attending Surgeon, Department of Surgery, North Shore University Hospital, B.A. 1966. Adelphi University; M.D. 1970, Medical College of Virginia, (1978)
- C. Richard Minick. Professor of Pathology. Attending Pathologist, New York Hospital. B.S. 1957, University of Wyoming; M.D. 1960, Cornell University. (1961: 1976)
- David T. Mininberg, Associate Professor of Clinical Surgery, Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1957, Yale University; M.D. 1961, New York Medical College. (1977; 1978)
- Arthur E. Mirkinson, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.A. 1943, New York University; M.D. 1947, Middlesex University School of Medicine. (1971: 1973)
- Gerald P. Mirrer, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital, B.A. 1943, Wagner University; M.D. 1946, New York University, (1972;
- Mark Mishkin, Clinical Professor of Radiology, A.B. 1949, Indiana University: M.D. 1953, State University of New York. (1978)
- Sidney Mishkin, Clinical Assistant Professor of Surgery, Attending Surgeon, North Shore University Hospital. B.A. 1939, M.S. 1939 and M.D. 1944, New York University. (1973; 1975)
- Abdallah S. Mishrick, Clinical Assistant Professor of Surgery, Attending Surgeon, North Shore University Hospital. M.B.B.C.H. 1943, Emmanuel College; B.S.C. 1946, University of London (England); M.D. 1950, Kasr-El-Eini Medical School. (1957: 1973)
- Paul Frederick Miskovitz, Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1971, State University of New York; M.D. 1975. Cornell University, (1976: 1980)
- Anthony J. Mistretta, Clinical Assistant Professor of Pediatrics. Active Staff, North Shore University Hospital. B.S. 1950, University of Notre Dame; M.D. 1955, University of Bologna (Italy). (1972)
- Jack Mitchell, Clinical Instructor in Surgery (Dentistry). Assistant Attending Dentist (Pedodontist), New York Hospital, B.A. 1968, Case Western Reserve University; D.D.S. 1972, New York University. (1977)
- Winston Gregory Mitchell, Adjunct Assistant Professor of Surgery. M.D. 1967, University of the West Indies.
- Charles Mitgang, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital, B.S. 1971, Brooklyn College: M.D. 1975, State University of New York. (1976; 1978)
- Virginia C. Mitty, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery, B.S. 1941, College of Mount Saint Michael; M.D. 1946, New York University. (1956; 1967)
- Masao Miyamoto, Instructor in Psychiatry, Clinical Affiliate, New York Hospital. M.D. 1973, Nihon University School of Medicine (Japan). (1979)
- Ahmed Mobarek, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital M.B.B.Ch. 1957, Faculty of Medicine, (1980) Carmine G. Moccio, Clinical Instructor in Surgery. B.A.

- 1966, New York University; M.D. 1972, New York Medical College. (1973; 1980)
- Walter Modell, Emeritus Professor of Pharmacology. Courtesy Staff, New York Hospital. B.S. 1928, College of the City of New York; M.D. 1932, Cornell University. (1940; 1973)
- Cynthia J. Modny, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1967, Mount Holyoke College; M.D. 1971, University of Virginia. (1972; 1976)
- Robert C. Moffatt, Clinical Instructor in Surgery, B.A. 1955, Erskine College, Eastern Tennessee State University; M.D. 1957, University of Tennessee. (1979)
- Ildiko Mohacsy, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1950, University of Medicine of Budapest (Hungary), (1977)
- Radhe Mohan, Assistant Professor of Physics in Radiology. Assistant Attending Physicist, Memorial Hospital. B.S. 1962 and M.S. 1963, Punjab University (India); Ph.D. 1969, Duke University. (1972; 1978)
- Edward K. C. Mok, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital, M.B.B.S. 1968, University of Hong Kong Medical School (1971; 1975)
- David W. Molander, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hematology-Lymphoma Service, Memorial Hospital. M.S. and M.D. 1946, University of Minnesota. (1951; 1967)
- Leonard J. Mondschein, Clinical Instructor in Surgery. B.A. 1964, Brooklyn College; M.D. 1969, Georgetown University. (1977)
- James L. Moodie, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1962, Stanford University; M.A. 1969, Columbia University; M.D. 1974, Albert Einstein College of Medicine. (1976: 1980)
- Anne Moore, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1965, Smith College; M.D. 1969, Columbia University. (1973; 1975)
- Francis X. Moore, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. M.D. 1946, New York University.
- James A. Moore, Emeritus Professor of Otorhinolaryngology (Consultant-in-Charge). Otorhinolaryngologist in Chief, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard Medical School. (1941; 1978)
- Oliver S. Moore, Clinical Assistant Professor of Surgery. Associate Attending Surgeon, Head and Neck Service, Memorial Hospital. B.A. 1937 and M.D. 1941, University of Texas. (1950; 1974)
- Harry H. Moorhead, Adjunct Assistant Professor of Psychiatry. Assisant Attending Psychiatrist, New York Hospital. M.D. 1950, University of Louisville. (1965; 1978)
- Charles J. Morosini, Clinical Instructor of Medicine in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. B.S. 1956, Fordham University; M.D. 1960, Jefferson Medical School. (1977; 1980)

- John B. Morrison, Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1959, Saint Lawrence University; M.D. 1964, Cornell University. (1969; 1976)
- John E. Morrison, Instructor in Surgery, B.S. 1970 and M.D. 1974, Georgetown University. (1975; 1977)
- Kevin P. Morrissey, Associate Professor of Clinical Surgery, Associate Attending Surgeon, New York Hospital. B.A. 1961, Williams College; M.D. 1965, Cornell University. (1966; 1978)
- Patricia L. Morris-Brink, Instructor in Medicine, B.A. 1969, Molloy College; M.S. 1973, Adelphi University; Ph.D. 1976, New York University. (1969; 1980)
- Robert W. Morrow, Clinical Instructor in Medicine. Clinical Affiliate, Department of Medicine, New York Hospital, B.S. 1970, Yale University; M.D. 1974, Mount Sinai School of Medicine. (1978)
- Saverio G. Mortati, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1947, Fordham University; M.D. 1951, New York University; M.S. 1972, Columbia University. (1974; 1975)
- Donald A. Moses, Clinical Instructor in Psychiatry, B.S. 1958, Bates College; M.D. 1962, New York Medical College. (1980)
- Leonard Moss. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. A.B. 1945 and M.D. 1951, Columbia University. (1955; 1977)
- Robert T. Mossey, Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.A. 1965, Assumption College; M.D. 1969, St. Louis University. (1970; 1976)
- Janet A. Mouradian, Associate Clinical Professor of Pathology. Assistant Attending Pathologist, New York Hospital, M.B.Ch.B. 1961, Bagdad University (Iraq). (1965; 1979)
- Richard Muchnick, Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital; Assistant Attending Surgeon, Manhattan Eye, Ear, and Throat Hospital. A.B. 1963 and M.D. 1967, Cornell University. (1970;
- Edward C. Muecke, Clinical Professor of Surgery (Urology). Attending Surgeon, New York Hospital. A.B. 1953, Reed College; M.D. 1957, Cornell University. (1960; 1979)
- Miklos Muller, Adjunct Associate Professor of Medicine. M.D. 1955, Medical University, Budapest (Hungary), (1977)
- George E. Murphy, Professor of Pathology. Attending Pathologist, New York Hospital. A.B. 1939, University of Kansas; M.D. 1943, University of Pennsylvania. (1953; 1968)
- M. Lois Murphy, Professor of Pediatrics. Attending Pediatrician, Memorial Hospital. B.A. 1939 and M.D. 1944, University of Nebraska. (1952; 1970)
- Terence W. Murphy, Clinical Instructor of Anesthesiology in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. M.B.B.Ch. 1956, University of Liverpool (England); M.P.H. 1972, Harvard University; M.S. 1973, Columbia University; J.D. 1977, Fordham University. (1978)
- Henry W. Murray, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1968 and M.D. 1972, Cornell University. (1973; 1979)

- V. Suryanarayan Murthy, Assistant Professor of Neurology, Neurologist, New York Hospital, M.B.B.S. 1968 and M.D. 1971, M.G.M. Medical College (India). (1973; 1977)
- Elizabeth Muss, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. Associate Attending Physician, Cardiopulmonary Service, Memorial Hospital. B.A. 1964, Skidmore College; M.D. 1968, New York Medical College. (1972; 1975)
- Wayne A. Myers, Clinical Associate Professor of Psychiatry, Associate Attending Psychiatrist, New York Hospital, B.S. 1952, University of Arkansas; M.D. 1956, Columbia University. (1958; 1977)
- W. P. Laird Myers, Professor of Medicine. Associate Dean, Cornell University. Attending Physician, New York Hospital; Consultant, North Shore University Hospital; Attending Physician; Vice President for Educational Affairs, Memorial and Sloan-Kettering. B.S. 1943, Yale University; M.D. 1945, Columbia University; M.S. 1952, University of Minnesota. (1953: 1968)
- Ralph L. Nachman, Professor of Medicine, Attending Physician, New York Hospital. B.A. 1953 and M.D. 1956, Vanderbilt University. (1957; 1972)
- Gideon Nachumi, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1958, State University of New York. (1976; 1979)
- Doris B. Nagel, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1957, Cornell University; M.D. 1964, Boston University. (1967; 1978)
- Jerry Nagler, Clinical Instructor in Medicine, Clinical Affiliate, Department of Medicine, New York Hospital. B.A. 1969, Columbia University; M.D. 1973, Yale University. (1976; 1978)
- Richard W. Nagler, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital, A.B. 1952. University of Pennsylvania: M.D. 1956, New York University. (1973)
- Willibald Nagler, Associate Professor of Medicine: Chairman, Department of Physical Medicine and Rehabilitation. Associate Attending Physician, New York Hospital: Physician to Outpatients, Hospital for Special Surgery, M.D. 1958, University of Vienna (Austria). (1963; 1972)
- John Nagy, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, North Shore University Hospital. B.S. 1955, Queens College; M.D. 1959, State University of New York. (1972)
- Abbas D. Nahas, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1960, Damascus University (Syria): M.Sc. 1967, New York University. (1975)
- Jesus Nahmias, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital; Associate Attending Child Psychiatrist, Department of Pediatrics, Memorial Hospital, B.S. 1953, Calasancio School (Spain); M.D. 1961, University of Madrid (Spain). (1969; 1971)
- Henry I. Nahoum, Clinical Instructor in Surgery (Dentistry). Clinical Associate Orthodontist, New York Hospital. B.A. 1940, Brooklyn College; D.D.S. 1943, Columbia University. (1977)
- James B. Naidich, Associate Professor of Radiology. Attending Radiologist, Department of Radiology,

- North Shore University Hospital. B.A. 1961, New York University; M.D. 1965, State University of New York. (1971: 1979)
- Louis M. Najarian, Clinical Assistant Professor of Psychiatry, B.S. 1964, University of Rhode Island; M.D. 1968, St. Louis University. (1976; 1980)
- Masatsugu Nakai, Assistant Professor of Neurobiology and Biology in Neurology. M.D. 1970, Tokyo Medical and Dental University (Japan), (1978: 1980)
- David Mark Namerow, Adjunct Assistant Professor of Pediatrics. B.S. 1968, City College of New York; M.D. 1972. University of Louisville. (1979).
- Hooshang Nasr, Assistant Professor of Medicine in Psychiatry Assistant Professor of Medicine. B.A. 1962, Yale University; M.D. 1966, Harvard University. (1980)
- Werner Nathan, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1936, University of Pisa (Italy). (1968;
- Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill University (Canada). (1957; 1962)
- Joseph N. Nathanson, Emeritus Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital, M.D.C.M., 1919, McGill University (Canada). (1940; 1965)
- Richard C. Natoli, Clinical Instructor in Anesthesiology. Active Staff, North Shore University Hospital, B.A. 1957, University of North Carolina; M.D. 1963, University of Bologna (Italy). (1972)
- Nancy Nealon, Instructor in Clinical Neurology. B.A. 1971, Manhattanville College; M.D. 1975, Pennsylvania State University. (1978; 1980)
- Louis D. Neistadt, Assistant Professor of Radiology. B.A. 1968, Columbia University; M.D. 1972, Stanford University Medical School. (1979: 1980)
- Robert R. Nenner, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital, M.D. 1950, Ludwig Maximillian University (Germany). (1971; 1975)
- Edward Nersessian, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. G.C.E. 1964, Leeds College of Technology; M.D. 1970, University of Louvain (Belgium). (1972; 1975)
- Karl Neumann, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1953, Syracuse University; M.D. 1958, State University of New York. (1962; 1978)
- Stuart Nevins, Clinical Instructor of Otorhinolaryngology in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. A.B. 1954, Brown University; M.D. 1960, Albany Medical College. (1977)
- Maria I. New, Professor of Pediatrics (Chairman); Harold and Percy Uris Professor of Pediatric Endocrinology and Metabolism. Attending Pediatrician, New York Hospital. A.B. 1950 Cornell University; M.D. 1954, University of Pennsylvania. (1956; 1971)
- Allen Newman, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. B.A. 1953, Cornell University; M.D. 1957, Chicago Medical School. (1975; 1977)
- Andreas P. Niarchos, Associate Professor of Medicine. Associate Attending Physician, New York Hospital.

- M.D. 1966, Athens University Medical School (Greece). (1976; 1980)
- Piero O. Niceta, Clinical Assistant Professor of Surgery (Urology), Assistant Attending Surgeon (Urology), Clinical Affiliate in Psychiatry, New York Hospital. M.D. 1958, University of Milan (Italy). (1970; 1973)
- James A. Nicholas, Clinical Associate Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Consultant, Hospital for Special Surgery, B.A. 1942, New York University; M.D. 1945. Long Island College of Medicine. (1954;
- William F. Nickel, Clinical Associate Professor of Surgery. Attending Surgeon, New York Hospital; Attending Surgeon, North Shore University Hospital, A.B. 1930 and M.D. 1934, Johns Hopkins University. (1940; 1961)
- Daniel J. Nicoll, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1968, New York University; M.D. 1972, State University of New York. (1973;
- Arnold P. Nicosia, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. B.A. 1940 and M.D. 1943, University of Rochester. (1958; 1971)
- James E. Nininger, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1970, Kenyon College; M.D. 1974, University of Cincinnati. (1977; 1979)
- E. Scott Ninninger, Adjunct Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. A.B. 1951 and M.D. 1955, University of Kansas. (1979)
- Yehuda Nir, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. M.D. 1958, Hebrew University, Jerusalem (Israel). (1979)
- Lourdes Z. Nisce, Associate Professor of Radiology. Attending Radiation Therapist, Memorial Hospital. A.A. 1941, University of the Philippines; M.D. 1946. University of Santo Tomas (Philippines). (1958;
- William J. Noble, Clinical Associate Professor of Medicine. Consultant in Medicine. North Shore University Hospital. M.D. 1947, Long Island College of Medicine. (1973)
- Samuel Nodelman, Instructor in Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital. M.D. 1971, Riga Medical School (USSR). (1979)
- Gerard M. Nolan, Instructor in Ophthalmology. Ophthalmologist, New York Hospital, M.S. 1973, University of Notre Dame; M.D. 1977, Georgetown Medical School. (1978; 1980)
- Paul M. Nonkin, Clinical Assistant Professor of Medicine. B.A. 1950, New York University; M.D. 1954, New York Medical College. (1979)
- Dattareyudu Nori, Instructor in Radiology. M.B.B.S. 1971, Kurnool Medical College (Pakistan); M.D. 1976, Osmania University. (1980)
- Rebecca F. Notterman, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. R.N. 1945 and M.D. 1952, New York University. (1954; 1973)
- Abraham Novogrodsky, Associate Professor of Medicine (Biochemistry); Associate Professor of Biochemistry. M.D. 1960, Hebrew University Medical

- School (Israel); Ph.D. 1973, Weizmann Institute of Science (Israel). (1975; 1979)
- Eugene John Nowak, Clinical Assistant Professor of Surgery, Assistant Attending Surgeon, New York Hospital, B.A. 1971, Providence College; M.D. 1975. College of Medicine and Dentistry of New Jersey. (1975: 1980)
- Henry Nunberg, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1954 and L.L.B. 1957, Harvard University; M.D. 1962, Albert Einstein College of Medicine, (1976)
- Eladio A. Nunez, Adjunct Associate Professor of Radiology. B.S. 1951 and M.S. 1953, St. John's University; Ph.D. 1964, New York University. (1964; 1976)
- Irwin Nydick, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1945 and M.D. 1948, Columbia University. (1953: 1972)
- Martin Nydick, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital, B.A. 1953, Hobart College; M.D. 1957, Columbia University. (1958; 1973)
- Sharon E. Oberfield, Assistant Professor of Pediatrics. Clinical Affiliate, New York Hospital. A.B. 1970 and M.D. 1974, Cornell University. (1979)
- Manuel Ochoa, Assistant Professor of Medicine. Attending Physician. Solid Tumor Service, Memorial Hospital, A.B. 1951 and M.D. 1955, Columbia University. (1968)
- Peter Odell, Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital; Attending Ophthalmologist, Manhattan Eye, Ear, and Throat Hospital. B.A. 1964, Bowdoin College; M.D. 1968, Tufts University. (1971;
- Herbert F. Oettgen, Professor of Medicine. Attending Physician and Chief, Clinical Immunology Service, Memorial Hospital. M.D. 1951, Cologne University (Germany). (1966; 1972)
- Avodah K. Offit, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Hunter College; M.D. 1967, New York University. (1969; 1977)
- Masamichi Oka, Associate Professor of Pathology. Assistant Attending Pathologist, Department of Laboratories, North Shore University Hospital. M.D. 1945 and Ph.D. 1950, Nippon Medical School (Japan). (1971; 1979)
- Michiko Okamoto, Professor of Pharmacology, B.S. 1954, Tokyo College of Pharmacy (Japan); M.S. 1957, Purdue University; Ph.D. 1964, Cornell University. (1964; 1977)
- Arthur J. Okinaka, Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital. B.A. 1950 and M.D. 1954, University of Chicago. (1955: 1972)
- John M. Oldham, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1962, Duke University; M.S. 1966 and M.D. 1967, Baylor University. (1977)
- Stanley D. Olicker, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. A.B. 1949 and M.D. 1953, Columbia University. (1972)
- Arthur Olson, Clinical Assistant Professor of Physics in

- Radiology, B.S. 1972, City University of New York; M.S. 1976, Long Island University. (1980)
- Madelyn Olson, Associate Professor of Clinical Neurology; Assistant Professor of Pediatrics. B.S. 1956 and M.D. 1967, University of Minnesota. (1968; 1980)
- Chong K. Ong, Clinical Instructor in Anesthesiology. B.S. 1968, University of the East; M.D. 1972, University of St. Thomas. (1980)
- Michael Orange, Clinical Associate Professor of Pediatrics. Attending Pediatrician, North Shore University Hospital. B.A. 1943 and M.D. 1945, New York University. (1971; 1972)
- Perry A. Orens, Clinical Assistant Professor of Medicine. Senior Associate Attending Physician, North Shore University Hospital. B.A. 1950, Hunter College; M.S. 1952, University of Leiden (The Netherlands); M.D. 1956, University of California. (1972; 1978)
- Stanley J. Orloff, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1944 and M.D. 1946, Tulane University. (1977)
- Edna Ortof, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.S. 1949, City College of New York; M.S.W. 1953, Columbia University; Ph.D. 1969, Yeshiva University. (1979)
- Lawrence D. Orvieto, Clinical Instructor of Dentistry in Psychiatry. Clinical Affiliate, New York Hospital. B.S. 1960, Niagara University; D.D.S. 1964, Georgetown University. (1978)
- James C. Otis, Assistant Professor of Applied Biomechanics in Surgery (Orthopedics). Assistant Attending Orthopedic Surgeon (Biomechanics), Hospital for Special Surgery. B.S. 1967 and M.S. 1969, Tufts University; Ph.D. 1974, Case Western Reserve University. (1976)
- Winfred Overholser, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, A.B. 1951, Harvard University; M.D. 1955, New York Medical College. (1976)
- Howard Owens, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, Department of Psychiatry, New York Hospital. A.B. 1967, Princeton University; M.D. 1971, Columbia University. (1975; 1979)
- John D. O'Brien, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1960, St. Peter's College; M.D. 1964, Seton Hall University. (1977)
- Barbara E. O'Connell, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1947, Cornell University; M.D. 1951, Columbia University. (1976)
- Ralph A. O'Connell, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1959, Holy Cross College; M.D. 1963, Cornell University. (1976)
- William M. O'Leary, Professor of Microbiology. B.S. 1952, M.S. 1953, and Ph.D. 1957, University of Pittsburgh. (1959; 1972)
- John E. O'Loughlin, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1967, Boston College; M.D. 1971, Georgetown University. (1972; 1979)
- Earl A. O'Neill, Clinical Instructor in Surgery. Clinical

- Affiliate in Surgery, New York Hospital. B.S. 1938, Springfield College; M.D. 1942, Duke University. (1943; 1961)
- Richard J. O'Reilly, Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1964, Holy Cross College; M.D. 1968, University of Rochester. (1974; 1978)
- S. Alice O'Shaughnessy, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital, B.A. 1965, St. John's University; M.D. 1969, Marquette University Medical School. (1970; 1973)
- Leonard D. Pace, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.S. 1953 and M.D. 1957, George Washington University. (1971; 1975)
- Ronald S. Pack, Clinical Instructor in Surgery (Oral). Assistant Attending Oral Surgeon, New York Hospital. B.S. 1972, Seton Hall University; D.M.D. 1975, College of Medicine and Dentistry of New Jersey. (1978; 1980)
- Samuel Packer, Clinical Assistant Professor of Ophthalmology; Clinical Assistant Professor of Radiology. Assistant Attending Surgeon (Ophthalmology), Manhattan Eye, Ear, and Throat Hospital; Associate Attending Ophthalmologist, North Shore University Hospital. B.A. 1962, New York University; M.D. 1966, State University of New York. (1973; 1979)
- Richard C. Packert, Assistant Professor of Radiology. Associate Attending Roentgenologist, Memorial Hospital. A.B. 1948, Brown University; M.D. 1952. Tufts University. (1964; 1973)
- Vellore Padmanabhan, Associate Professor of Clinical Medicine. Attending Physician, North Shore University Hospital. M.B.B.S. 1959, Mysore Medical College; M.D. 1962, All India Institute of Medical Sciences (India). (1967; 1979)
- Stephen Paget, Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital, B.A. 1966, Brooklyn College; M.D. 1971, State University of New York. (1977)
- Michael A. Paglia, Clinical Assistant Professor of Surgery. Associate Attending Surgeon, Gastric and Mixed Tumor Service, Memorial Hospital. A.B. 1949, Columbia University; M.D. 1953, New York University. (1962; 1974)
- Gerald Palevsky, Adjunct Professor of Engineering in Public Health. B. S. 1947, Virginia Polytechnic Institute; M.S. 1949, Columbia University; M.C.E. 1951, New York University. (1978)
- George E. Paley, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.S. 1942, Cornell University; M.D. 1945, New York Medical College. (1971; 1974)
- Winston B. Paley, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. A.B. 1961, Columbia College; M.D. 1965, New York University. (1973)
- James P. Palma, Clinical Instructor in Anesthesiology. B.A. 1969, Hofstra University; M.D. 1975, University of Rome (Italy). (1980)
- Lawrence G. Palmer, Assistant Professor of Physiology. B.A. 1970, Swarthmore College; Ph.D. 1976, University of Pennsylvania. (1980)
- Robert C. Palmer, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital.

A.B. 1967, DePauw University; M.D. 1971, Indiana University School of Medicine. (1979)

Jeanne Pamilla, Clinical Assistant Professor of Surgery (Othopedics). Assistant Attending Surgeon (Othopedics), North Shore University Hospital. B.S. 1964, St. John's University; M.D. 1968, Medical College of Pennsylvania. (1973; 1978)

Songja Pang, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. M.D. 1969, Ewha University (Korea). (1976; 1977)

Michael W. Panio, Adjunct Instructor in Anatomy; Clinical Instructor in Surgery. A.B. 1968 and M.D. 1972,

Cornell University. (1972; 1976)

- Gideon G. Panter, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1956 and M.D. 1960, Cornell University. (1960;
- Joseph I. Paris, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital, B.A. 1952, Syracuse University; M.D. 1959, Howard University. (1973)
- Benjamin Park, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. M.D. 1965, Seoul National University (Korea). (1973; 1975)
- Dong H. Park, Assistant Professor of Neurobiology in Neurology. B.S. 1961, Seoul National University; M.S. 1968 and Ph.D. 1970, Brigham Young University. (1975; 1978)
- Lynda M. Parker, Clinical Instructor in Psychiatry. B.A. 1968, C.W. Post College; M.A. 1970, New York University; M.D. 1974, Cornell University. (1976; 1979)
- Joseph E. Parrillo, Assistant Professor of Surgery; Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1968, Dartmouth College: M.D. 1972. Cornell University. (1977; 1980)
- Edward L. Parsons, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.Sc. 1952, University of Massachusetts; M.D. 1956, McGill University (Canada). (1978)
- Henry S. Partridge, Clinical Instructor in Surgery. A.B. 1964, Holy Cross College; M.D. 1968, Georgetown University Medical College. (1979)
- Mark W. Pasmantier, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1962, Amherst College; M.D. 1966, New York University. (1971; 1974)
- Gavril Pasternak, Assistant Professor of Neurology. Assistant Professor of Pharmacology (Neurology). Assistant Attending Neurologist, New York Hospital. B.A. 1969, M.D. 1973, and Ph.D. 1974, Johns Hopkins University. (1979)
- Norman J. Pastorek, Clinical Assistant Professor in Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital. B.A. 1960, Augustana College; M.D. 1964, University of Illinois. (1971; 1974)
- John T. Patten, Clinical Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital. B.S. M.D. 1971, University of Melbourne Medical School (Australia). (1977; 1980)
- Robert Lee Patterson, Emeritus Professor of Surgery (Orthopedics). Emeritus Surgeon-in-Chief, Hospital for Special Surgery; Consultant in Surgery (Orthopedics), New York Hospital. B.A. 1928, University of

- Georgia; M.D. 1932, Harvard University. (1951;
- Russel H. Patterson, Professor of Surgery (Neurosurgery). Honorary Staff in Neurosurgery, New York Hospital; Associate Attending Neurosurgical Service, Memorial Hospital, B.A. 1948, Stanford University; M.D. 1952, Cornell University. (1955; 1971)
- Helene Pavlov, Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital. B.A. 1968 and M.D. 1972, Temple University. (1977)
- Mary Ann Payne, Clinical Professor of Medicine. Attending Physician, New York Hospital, B.A. 1935. Hood College; M.A. 1941 and Ph.D. 1943, University of Wisconsin; M.D. 1945, Cornell University. (1946;
- Sherman S. Pazner, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.S. 1962, Pennsylvania State University; M.D. 1966, Jefferson Medical College.
- David Pearce, Clinical Instructor in Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital, B.A. 1960, Union College; M.D. 1966, New York Medical College. (1977)
- Herbert Pearl, Clinical Instructor in Surgery. Senior Assistant Attending Surgeon, North Shore University Hospital. B.S. 1936, Columbia University; M.D. 1941, Anderson College of Medicine (Scotland). (1972)
- Mark Steven Pecker. Instructor in Medicine. Assistant Attending Physician, New York Hospital. Sc.B. 1973, Brown University; M.D. 1977, New York University. (1980)
- Leroy H. Pedersen, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital, M.D. 1946, Long Island College of Medicine. (1971; 1975)
- Paul Pellicci, Adjunct Instructor in Anatomy; Instructor in Surgery (Orthopedics), B.A. 1971, Johns Hopkins University; M.D. 1975, Cornell University. (1977; 1978)
- Doris T. Penman, Instructor of Psychology in Psychiatry. B.S. 1958, Columbia University School of Nursing; Ph.D. 1979, Yeshiva University. (1979)
- Keith S. Pentlow, Assistant Professor of Clinical Radiology (Physics). Assistant Physicist, Memorial Hospital. B.Sc. 1961 and M.Sc. 1972, University of London (England). (1978)
- Michael A. Perelman, Clinical Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1971, University of Wisconsin; M.S. 1973, M.P.H. 1975, and Ph.D. 1976, Columbia University. (1976)
- Walter L. Peretz, Clinical Professor of Ophthalmology. Attending Ophthalmologist, New York Hospital. A.B. 1947, Princeton University; M.D. 1952, Cornell University. (1955; 1980)
- Richard E. Perkins, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1948 and M.D. 1952, Cornell University. (1957; 1972)
- Martin Perlmutter, Clinical Associate Professor of Medicine. Honorary Staff, North Shore University Hospital. B.A. 1934, Johns Hopkins University; M.D. 1938, Columbia University. (1972)
- Steven Perlmutter, Clinical Assistant Professor of Radiology. B.A. 1968, Johns Hopkins University;

- M.D. 1972, State University of New York. (1975;
- Abraham P. Perlstein, Adjunct Assistant Professor of Psychiatry, B.S. 1949, University of Oregon; M.D. 1953, New York University. (1980)
- Joshua M. Perman, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1937, Johns Hopkins University: M.D. 1941, University of Maryland. (1977)
- Robert J. Perper, Adjunct Professor of Pathology. D.V.M. 1956, Cornell University; M.S. 1965 and Ph.D. 1967, University of California. (1975)
- Francis S. Perrone, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital: Assistant Attending Physician, Cardiopulmonary Service, Memorial Hospital. M.D. 1950, Cornell University. (1951; 1976)
- Malcolm O. Perry, Professor of Surgery. Attending Surgeon, Director of Vascular Surgery, New York Hospital, B.A. 1951 and M.D. 1955, University of Texas. (1978)
- Samuel W. Perry. Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1963, Princeton University; M.D. 1967, Columbia University. (1977)
- Mervyn M. Peskin, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital, B.A. 1960, L.L.B. 1963 and M.B.B.Ch. 1971, University of the Witwatersrand (South Africa), (1974; 1978)
- Birgitta E. Peterson, Assistant Professor of Pediatrics. B.S. 1959, University of Lund; M.D. 1967, University of Uppsala (Sweden). (1969; 1973)
- Charles M. Peterson, Adjunct Associate Professor of Medicine, B.A. 1965, Carleton College; M.D. 1969, Columbia University. (1980)
- Hart deCoudres Peterson, Clinical Associate Professor of Neurology; Clinical Associate Professor of Neurology in Pediatrics. Associate Attending Pediatrician, New York Hospital. A.B. 1954, Middlebury College; M.D. 1958, Boston University. (1963; 1978)
- Ralph E. Peterson, Professor of Medicine. Attending Physician, New York Hospital. B.S. 1940 and M.S. 1941, Kansas State College; M.D. 1946, Columbia University. (1958; 1968)
- Carol K. Petito, Associate Clinical Professor of Pathology. Associate Attending Pathologist, New York Hospital. B.S. 1963, Tufts University; M.D. 1967, Columbia University. (1968; 1979)
- Frank Petito, Associate Professor of Clinical Neurology. Associate Attending Neurologist, New York Hospital. A.B. 1963, Princeton University; M.D. 1967, Columbia University. (1968; 1979)
- Cynthia R. Pfeffer, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1964, Rutgers University; M.D. 1968, New York University. (1979)
- Malcolm C. Phillips, Clinical Instructor in Medicine. Clinical Affiliate, New York Hospital. B.A. 1972, Amherst College; M.D. 1976, Columbia University. (1978; 1980)
- Paul E. Phillips, Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Hospital for Special Surgery. A.B. 1958, Princeton University; M.D. 1962, Albany Medical College. (1970; 1976)
- Ralph F. Phillips, Emeritus Clinical Professor of Radiol-

- ogy, M.B.B.S. 1928 and M.S. 1930. University of London (England). (1950; 1968)
- Arthur Philson, Clinical Instructor in Medicine, Clinical Affiliate, Department of Medicine, New York Hospital. B.S. 1938. Notre Dame University: M.D. 1942. Cornell University. (1977)
- Ernest R. Piccaro, Clinical Assistant Professor of Surgery (Dentistry). Associate Attending Dentist. New York Hospital. D.D.S. 1953, Buffalo University. (1977)
- Gary A. Piccione, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. A.B. 1941, Princeton University; M.D. 1944, Columbia University. (1971; 1975)
- Virginia Pickel, Associate Professor of Neurobiology in Neurology. B.S. 1965 and M.S. 1967, University of Tennessee; Ph.D. 1970, Vanderbilt University. (1973;
- Thomas G. Pickering, Associate Professor of Medicine. Associate Attending Physician, New York Hospital, B.A. 1962 and M.A. 1968, Cambridge University; Ph.D. 1970, Oxford University (England). (1972; 1976)
- Elizabeth P. Pickett, Clinical Instructor in Surgery. Assistant Attending Surgeon (Urology), Memorial Hospital. B.A. 1941 and M.D. 1944, University of Colorado. (1954: 1961)
- Mary Kathryn Pierri, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.A. 1969, Manhattanville College; M.D. 1974, Medical College of Pennsylvania. (1979)
- Dorothy Mary Pietrucha, Clinical Assistant Professor of Neurology. Clinical Assistant Professor of Pediatrics. Clinical Affiliate, Department of Neurology, New York Hospital; Assistant Attending Pediatrician, New York Hospital. B.A. 1964, Rutgers University; M.D. 1968, New Jersey College of Medicine. (1973: 1978)
- Johanna Pindyck, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1959, Vassar College; M.D. 1963, New York University. (1964; 1979)
- Carl M. Pinsky, Assistant Professor of Medicine. Associate Attending Physician, Clinical Immunology Service, Memorial Hospital. A.B. 1960, University of Pennsylvania; M.D. 1964, Jefferson Medical College. (1966; 1975)
- John Pinto, Assistant Professor of Nutrition in Medicine. Associate, Sloan-Kettering Cancer Research Center. B.S. 1968, St. John Fisher College; Ph.D. 1974, College of Medicine and Dentistry of New Jersey. (1979)
- Vladimir R. Piskacek, Clinical Assistant Professor of Psychiatry. Senior Assistant Attending Psychiatrist, North Shore University Hospital. M.D. 1956, Charles IV University Medical School (Czechoslovakia). (1975: 1978)
- Olive E. Pitkin, Clinical Assistant Professor of Pediatrics. Clinical Affiliate in Pediatrics, New York Hospital. B.S. 1943, Bennington College; M.D. 1947, Yale University. (1953; 1968)
- William R. Pitts, Clinical Assistant Professor of Surgery (Urology). Assistant Attending Surgeon, New York Hospital. A.B. 1963, Princeton University; M.D. 1967, Harvard University. (1971; 1977)
- Roy A. Pizzarello, Assistant Professor of Medicine. Senior Assistant Attending Physician, New York

- Hospital. A.B. 1965, Princeton University; M.D. 1969, Georgetown University. (1974; 1978)
- Jana Planner, Clinical Instructor in Anesthesiology. Clinical Assistant Anesthesiologist, Memorial Hospital. M.D. 1963, Charles University (Czechoslovakia). (1972; 1975)
- Melville A. Platt, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948 and M.D. 1952, University of Western Ontario (Canada). (1956; 1968)
- Fred Plum, Anne Parrish Titzell Professor of Neurology (Chairman). Neurologist in Chief, New York Hospital. A.B. 1944, Dartmouth College; M.D. 1947, Cornell University. (1948; 1963)
- Nathan Poker, Associate Professor of Radiology. Associate Attending Radiologist, New York Hospital. B.A. 1942, Brooklyn College; M.D. 1950, Columbia University. (1953; 1972)
- Albert A. Pollack, Clinical Associate Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1938, Washington and Lee University; M.D. 1942, Long Island College of Medicine; M.S. 1949, University of Minnesota. (1975; 1979)
- Lynda Pollack, Clinical Assistant Professor of Pediatrics. B.S. 1964, University of Wisconsin; M.D. 1970, New York University. (1979)
- Harvey B. Pollak, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.A. 1967, University of Pennsylvania; M.D. 1971, Chicago Medical College. (1972; 1977)
- Virginia E. Pomeranz, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.S. 1945, University of Michigan; M.D. 1949, Long Island College of Medicine. (1956;
- Thomas A. Poole, Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. A.B. 1962, University of Pennsylvania; M.D. 1966, Harvard University. (1980)
- George C. Poppensiek, Professor of Pathology (Comparative Pathology). Professor of Microbiology, New York State College of Veterinary Medicine, Cornell University. V.M.D. 1942, University of Pennsylvania; M.S. 1951, Cornell University. (1974)
- Aaron S. Posner, Professor of Biochemistry. B.S. 1941, Rutgers University; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege (Belgium). (1963; 1969)
- Jerome B. Posner, Professor of Neurology (Assistant Chairman). Attending Neurologist, New York Hospital. Attending Physician, Chief, Department of Neurology, Memorial Hospital. B.S. 1951 and M.D. 1955, University of Washington. (1963; 1970)
- Martin R. Post, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1963, University of Pennsylvania; M.D. 1967, State University of New York. (1970; 1977)
- Aurelia Potor, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1936, Western Reserve University; B.M. 1940 and M.D. 1941, University of Cincinnati. (1955; 1969)
- Guy D. Potter, Clinical Professor of Radiology. B.S. 1957 and M.D. 1960, University of Chicago. (1979) Douglas G. Potts, Professor of Radiology. Attending Radiologist, New York Hospital. Associate Attending

- Roentgenologist, Memorial Hospital. B.Sc. 1946, Canterbury University College (New Zealand); M.B.Ch.B. 1951 and M.D. 1960, University of Otago (New Zealand). (1967; 1970)
- Hipolito Poussin-Rosillo, Instructor in Radiology. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1966 and M.D. 1973, University of Puerto Rico. (1979)
- Edward W. Powers, Clinical Instructor in Surgery (Plastic Surgery); Clinical Instructor of Surgery (Plastic) in Medicine. B.S. 1963, Fairfield University; M.S. 1964, Fordham University; M.D. 1968, State University of New York Downstate Medical Center. (1979)
- Sue G. Powers, Assistant Professor of Biochemistry. B.S. 1969, University of Kentucky; Ph.D. 1974, University of California. (1978; 1979)
- Margaret G. Pratila, Clinical Assistant Professor in Anesthesiology. M.B.B.Ch. 1958, Welsh National School of Medicine (Wales). (1980)
- lan Pravda, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1964, Bates College; M.D. 1970, University of Lausanne (Switzerland). (1977)
- Richard W. Price, Associate Professor of Neurology. Attending Physician, Memorial Hospital. A.B. 1963, Wesleyan University; M.D. 1967, Albany Medical College. (1969; 1979)
- Alfred M. Prince, Clinical Associate Professor of Pathology. Associate Attending Pathologist, New York Hospital; Head, Virus Laboratory, New York Blood Center. A.B. 1949, Yale University; M.A. 1951, Columbia University; M.D. 1955, Western Reserve University. (1966)
- Ivin B. Prince, Clinical Assistant Professor of Surgery (Dentistry). Associate Attending Dentist (Prosthodontist), New York Hospital. B.A. 1943, New York University; D.D.S. 1948, Columbia University. (1972;
- R. A. Rees Pritchett, Clinical Professor of Medicine. Attending Physician, New York Hospital. B.A. 1944, Houghton College; M.D. 1948, Cornell University. (1949; 1974)
- Leslie Prusnofsky, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.S. 1973, Brooklyn College; M.D. 1977, Columbia University. (1978; 1980)
- Reginald Puckett, Clinical Instructor in Obstetrics. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1961, University of Richmond; M.D. 1976, Pritzker Medical School. (1977;
- William Anthony Pulsinelli, Assistant Professor of Neurology, Neurologist, New York Hospital, B.S. 1965. Villanova University; Ph.D. 1970 and M.D. 1973, University of Utah. (1974; 1977)
- John J. Putnam, Clinical Associate Professor of Surgery (Dentistry). Attending Dentist, New York Hospital. D.D.S. 1952, University of Buffalo. (1977)
- Joseph Putrino, Assistant Professor of Radiology. B.S. 1969, St. Peter's College; M.D. 1973, Cornell University. (1977; 1979)
- Stuart H. Quan, Clinical Associate Professor of Surgery, Attending Surgeon, Rectal and Colon Service, Memorial Hospital. M.D. 1945, Harvard University. (1953; 1976)
- Jacques M. Quen, Clinical Professor of Psychiatry.

- Attending Psychiatrist, New York Hospital. B.Sc. 1948, Bethany College; M.Sc. 1950, Brown University; M.D. 1954, Yale University. (1961; 1978)
- Fred William Quimby, Associate Professor of Pathology (Comparative Pathology). V.M.D. 1970 and Ph.D. 1970, University of Pennsylvania. (1979)
- Leonard E. Quitt, Clinical Assistant Professor of Surgery (Dentistry). Assistant Attending Dentist (TMJ), New York Hospital. B.A. 1940, Johns Hopkins University; D.D.S. 1943, University of Maryland.
- John H. Raaf, Assistant Professor of Surgery. Assistant Attending Surgeon, Gastric and Mixed Tumor Service, Memorial Hospital. A.B. 1963, Harvard University; Ph.D. 1966, Oxford University; M.D. 1970, Harvard University. (1979)
- Enrique M. Rabellino, Assistant Professor of Immunology in Medicine. B.S. 1959, Institute J.M. Paz, Cordoba (Argentina); M.D. 1965, University of Cordoba (Argentina). (1976; 1977)
- Edwin L. Rabiner, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1948, Franklin and Marshall College; M.D. 1952, University of Pennsylvania. (1977; 1980)
- Julian R. Rachele, Acting Dean, Graduate School of Medical Sciences; Emeritus Professor of Biochemistry. B.A. 1934, M.S. 1935, and Ph.D. 1939, New York University. (1939; 1978)
- Alan N. Rachleff, Clinical Instructor in Anesthesiology. B.A. 1961, Williams College; M.D. 1965, Yale University. (1974)
- Alylin Radomisli, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1958, American College for Girls (Turkey); M.D. 1971, Lausanne University (Switzerland). (1975; 1979)
- Michel Radomisli, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.S. 1951, Robert College (Turkey); A.M. 1958, Columbia University; Ph.D. 1962, New York University. (1977)
- Josephine P. Ragasa, Clinical Instructor in Anesthesiology. Associate Attending Anesthesiologist. Memorial Hospital. B.S. 1949 and M.D. 1954, University of Santo Tomas. (Philippines) (1974)
- Gian D. Ragazzoni, Assistant Professor of Clinical Radiology (Physics). Assistant Attending Physicist. Memorial Hospital. B.S. 1962 and M.S. 1968, Columbia University. (1969; 1978)
- Chitranjan S. Ranawat, Clinical Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery, M.B.B.B. 1958 and M.S. 1961, M.G.M. Medical College (India), (1967; 1979)
- Edwin R. Ranzenhofer, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1950, Rutgers University; M.D. 1954, Yale University. (1960; 1978)
- Irwin Rappaport, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.S. 1953, Columbia University; M.D. 1962, Medical College of Virginia. (1964; 1975)
- John J. Rasweiler, Assistant Professor of Anatomy. B.A. 1965, Colgate University; Ph.D. 1970, Cornell University. (1978; 1979)
- Premila Rathnam, Associate Professor of Biochemistry in Medicine; Associate Professor of Endocrinology

- in Obstetrics and Gynecology. M.S. 1962, University of Wisconsin; Ph.D. 1966, Seton Hall University. (1966; 1978)
- Robert A. Ravich, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1941, Yale University; M.D. 1944, Columbia University. (1971; 1972)
- Saul D. Raw, Clinical Instructor of Social Work in Psychiatry. B.A. 1968, Brooklyn College; M.S.W. 1972, Hunter College. (1979)
- Donald Gordon Rawlinson, Clinical Assistant Professor of Neurology. Clinical Instructor in Pathology. M.D. 1966, University of Alberta (Canada). (1978)
- Bronson S. Ray, Emeritus Clinical Professor of Surgery (Neurosurgery). Honorary Staff, Neurosurgery, New York Hospital; Clinical Affiliate in Psychiatry, Westchester Division, New York Hospital; Consultant, Neurosurgery, Memorial Hospital. B.S. 1924, Franklin College; M.D. 1928, Northwestern University. (1932; 1976)
- Edward A. Raymond, Clinical Instructor of Surgery in Psychiatry. Clinical Affiliate, New York Hospital. A.B. 1937, Yale University; M.D. 1941, Cornell University.
- Lawrence W. Raymond, Clinical Associate Professor of Medicine. B. Civil Engr. 1956, Manhattan College: S.M. 1957, Harvard University; M.D. 1964, Cornell University. (1980)
- George G. Reader, Livingston Farrand Professor of Public Health, Chairman; Professor of Medicine. Attending Physician, New York Hospital. A.B. 1940 and M.D. 1943, Cornell University. (1946; 1972)
- Robert E. Reber, Clinical Assistant Professor of Surgery. B.A. 1958, Ohio University; M.D. 1962, Columbia University. (1976)
- Jon M. Reckler, Clinical Assistant Professor of Surgery (Urology). Associate Attending Surgeon (Urology), New York Hospital. A.B. 1962 and M.D. 1966, Harvard University. (1974)
- S. Frank Redo, Professor of Surgery in Pediatrics; Professor of Surgery. Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell University. (1951; 1979)
- Michael I. Rehmar, Clinical Assistant Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1946, Williams College; M.D. 1949, Columbia University. (1975)
- Lilian M. Reich, Clinical Assistant Professor of Medicine. Assistant Attending Hematologist, Hematology-Lymphoma Service, Memorial Hospital; Assistant Attending Hematologist, Hospital for Special Surgery. B.A. 1954, Buenos Aires College; M.D. 1959, Buenos Aires Medical School (Argentina). (1968; 1974)
- Stephen Reich, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. A.B. 1960, J.D. 1963, and M.B.A. 1963, Columbia University; M.A. 1970 and Ph.D. 1972, Fordham University. (1971; 1978)
- Walter H. Reichert, Assistant Professor of Clinical Neurology. B.S. 1968 and M.D. 1972, University of Utah. (1977; 1979)
- Marcus M. Reidenberg, Professor of Pharmacology; Professor of Medicine. Associate Attending Physician, New York Hospital. M.D. 1958, Temple University. (1975; 1980)
- Bruce Reider, Instructor in Surgery. A.B. 1971, Yale

- University; M.D. 1975, Harvard University. (1976;
- Reuben H. Reiman, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Columbia University; M.D. 1951, State University of New York. (1965; 1971)
- Charles A. Reiner, Clinical Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.S. 1968, University of Pittsburgh; M.A. 1970 and Ph.D. 1973, University of Florida. (1977)
- Donald Jeffrey Reis, Professor of Neurology in Psychiatry. Attending Neurologist; Attending Neurologist in Psychiatry, New York Hospital. A.B. 1953 and M.D. 1956, Cornell University. (1963; 1971)
- Peter M. Reiser, Assistant Professor of Medicine. Senior Assistant Attending Physician, New York Hospital. B.A. 1968, Rutgers University; M.D. 1972, College of Medicine of New Jersey. (1973; 1978)
- Milton J. Reitman, Assistant Professor of Pediatrics. North Shore University Hospital Staff, B.A. 1964. Rutgers University; M.D. 1969, New York Medical College. (1974)
- Gene D. Resnick, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1970 and M.D. 1974, Cornell University. (1979)
- Charles Ressler, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1934, Lafayette College; M.D. 1938, Cornell University. (1944; 1961)
- Salamon Rettig, Adjunct Professor of Psychology in Psychiatry. Attending Psychologist, New York Hospital. B.A. 1953, Temple University; M.A. 1953 and Ph.D. 1956, Ohio State University. (1975)
- Paul Reznikoff, Emeritus Clinical Professor of Medicine. Honorary Staff, New York Hospital. B.S. 1916, New York University; M.D. 1920, Cornell University. (1924: 1961)
- Yong-Myun Rho, Adjunct Associate Professor of Pathology. M.D. 1955 and M.Sc. 1958, Seoul National University (Korea). (1979)
- Jack Richard, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1950 and M.D. 1953, Cornell University. (1956; 1969)
- Stephen Richmond, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. A.B. 1959, Cornell University; M.D. 1963, State University of New York. (1977)
- Malcolm M. Rick, Clinical Assistant Professor of Psychology in Psychiatry. Chief Psychologist, Department of Psychiatry, North Shore University Hospital. B.A. 1959, Brooklyn College; Ph.D. 1964, Adelphi University, (1975)
- Arleen Rifkind, Assistant Professor of Medicine; Associate Professor of Pharmacology. Clinical Affiliate in Medicine, New York Hospital. B.A. 1960, Bryn Mawr College; M.D. 1964, New York University Medical School. (1971; 1978)
- Robert R. Riggio, Associate Professor of Biochemistry (Surgery); Associate Professor of Surgery (Biochemistry); Associate Professor of Medicine. Associate Attending Surgeon, New York Hospital; Associate Attending Physician, New York Hospital. A.B. 1954. Dartmouth College; M.D. 1958, New York Medical College. (1966; 1976)
- Walter F. Riker, Jr., Professor of Pharmacology

- (Chairman). B.S. 1939, Columbia University; M.D. 1943, Cornell University. (1941; 1956)
- Edgar A. Riley, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital, M.D. 1944, Columbia University. (1952;
- Charles B. Ripstein, Clinical Assistant Professor of Surgery, Associate Attending Surgeon (Thoracic), North Shore University Hospital. B.S. 1936, University of Arizona; M.D.C.M. 1940, McGill University (Canada). (1972)
- Michael Risley, Assistant Professor of Anatomy. B.S. 1970, Manhattan College; Ph.D. 1976, City University of New York. (1976; 1978)
- Marcos Rivelis, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital: Staff, Hospital for Special Surgery. M.D. 1963, University of the Litoral (Argentina). (1966; 1973)
- Richard S. Rivlin, Professor of Medicine. Chief, Division of Nutrition, Memorial Hospital. A.B. 1955 and M.D. 1959, Harvard University. (1979)
- Samy Faried Rizk, Clinical Assistant Professor of Anesthesiology. D.A. 1963, Cairo University (Egypt); F.F.A. and R.C.S. 1974, Royal College of Surgeons. (1980)
- Thomas D. Rizzo, Clinical Instructor in Surgery. Assistant Attending Surgeon (Orthopedics), New York Hospital; Orthopedic Surgeon to Outpatients. B.S. 1953 and M.D. 1956, Georgetown University.
- William F. Robbett, Clinical Assistant Professor of Otorhinolaryngology, B.S. 1943, University of Notre Dame; M.D. 1947, Georgetown University. (1976)
- David B. Robbins, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1956, Union College; M.D. 1960, Cornell University. (1965; 1977)
- Guy F. Robbins, Clinical Associate Professor of Surgery. Attending Surgeon, Breast Service, Memorial Hospital. B.S. 1933, B.M. 1936 and M.D. 1937, Northwestern University. (1950; 1970)
- Mitchell A. Robbins, Clinical Instructor in Medicine. B.S. 1971 and M.D. 1975, State University of New York. (1976; 1980)
- William C. Robbins, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia University; M.D. 1945, Cornell University. (1948; 1963)
- Richard B. Roberts, Professor of Medicine. Attending Physician, New York Hospital; Attending Physician, Infectious Disease Service, Memorial Hospital. A.B. 1955, Dartmouth College; M.D. 1959, Temple University. (1969; 1975)
- Thomas N. Roberts, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. M.D. 1948, Harvard University. (1949;
- Theodore Robertson, Clinical Associate Professor of Pathology. B.S. 1939 and M.D. 1943, Cornell University. (1946; 1977)
- Raymond P. Robinson, Instructor in Surgery. B.A. 1971, Ripon College; M.D. 1975, Columbia University. (1977; 1978)
- Heonir Rocha, Adjunct Professor of Medicine. M.D. 1954, Federal University of Bahia (Brazil). (1968; 1979)

- Arnold M. Rochwarger, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1964, Brooklyn College; M.D. 1968, Albert Einstein College of Medicine. (1973; 1975)
- Lawrence H. Rockland, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1952, Union College; M.D. 1956, Albany Medical College. (1975; 1976)
- John S. Rodman, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital, A.B. 1966 and M.D. 1970, Columbia University. (1974; 1976)
- Toby C. Rodman, Associate Professor of Anatomy. B.S. 1937, Philadelphia College of Pharmacy and Science; M.S. 1961 and Ph.D. 1963, New York University. (1969; 1976)
- Charles E. Rogers, Clinical Assistant Professor of Surgery. Assistant Attending Surgeon, Breast Service, Memorial Hospital. B.S. 1942 and M.D. 1945, Marquette University. (1969)
- David E. Rogers, Adjunct Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital, M.D. 1948, Cornell University. (1950; 1974)
- Jay B. Rohrlich, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1963, Williams College; M.D. 1967, Columbia University. (1977)
- Massimo Romani, Adjunct Assistant Professor of Anatomy. M.D. 1977, University of Rome (Italy). (1978: 1980)
- John Romankiewicz, Assistant Professor of Pharmacology. B.S. 1970, University of Illinois; D.Ph. 1973, Philadelphia College of Pharmacy. (1977; 1979)
- John Romano, Clinical Instructor in Medicine. Clinical Affiliate, New York Hospital. B.S. 1969, St. Peter's College; M.D. 1973, Cornell University. (1978)
- Benjamin N. Romney, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. M.D. 1972, Columbia College of Physicians and Surgeons. (1979)
- Sharon-Marie Rooney, Clinical Assistant Professor in Anesthesiology. Associate Attending Anesthesiologist, Memorial Hospital. B.S. 1964, Chestnut Hill College; M.D. 1968, New York Medical College. (1973; 1975)
- Leon Root, Associate Professor of Clinical Surgery (Orthopedics). Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1947, Rutgers University; M.D. 1955, New York Medical College. (1967; 1979)
- Carl S. Rosen, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.A. 1954, Clark University; M.D. 1960, University of Lausanne (Switzerland). (1971;
- Gerald Rosen, Associate Professor of Pediatrics. Associate Attending Pediatrician, Memorial Hospital. B.S. 1961, Massachusetts Institute of Technology; M.D. 1966, Stanford University. (1967; 1976)
- Paul P. Rosen, Associate Professor of Pathology. Associate Attending Pathologist, Memorial Hospital. B.A. 1960, Swarthmore College; M.D. 1964, Columbia University. (1972; 1978)
- Kenneth J. Rosenbaum, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist,

- Manhattan Eye, Ear, and Throat Hospital. A.B. 1964 and M.D. 1968, University of Pennsylvania. (1974)
- Siegfried Rosenbaum, Clinical Instructor in Anesthesiology. B.S.M.B. 1953, University of Melbourne (Australia). (1974)
- Alan S. Rosenberg, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital, A.B. 1958, Brown University; M.D. 1962, Albert Einstein College of Medicine. (1971; 1973)
- Richard F. Rosenberg, Assistant Professor of Radiology. Assistant Attending Radiologist, North Shore University Hospital. B.A. 1964, Colgate University; M.D. 1968, New York Medical College. (1976; 1978)
- David L. Rosenfeld, Assistant Professor of Obstetrics and Gynecology. Director, Division of Human Reproduction, Department of Obstetrics and Gynecology, North Shore University Hospital. A.B. 1965, Princeton University; M.D. 1970, University of Pennsylvania. (1977)
- Isadore Rosenfeld, Clinical Professor of Medicine. Attending Physician, New York Hospital. B.S. 1947 and M.D.C.M. 1951, McGill University (Canada). (1958; 1979)
- Alan D. Rosenthal, Clinical Instructor in Surgery. Senior Assistant Attending Surgeon (Neurosurgery), North Shore University Hospital. A.B. 1958, Yale University; M.D. 1962, University of Virginia. (1972)
- Norman Rosenthal, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. A.B. 1939, Columbia University; M.D. 1943, Medical College of Virginia. (1971; 1975)
- William Rosenthal, Adjunct Assistant Professor of Psychiatry. B.A. 1955, Washington and Jefferson College; M.D. 1959, Chicago Medical School. (1975)
- Leonard Rosenzweig, Clinical Associate Professor of Pediatrics. North Shore University Hospital Staff. M.D. 1946, Johns Hopkins University. (1978)
- Melvin S. Rosh, Clinical Associate Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1956, Hamilton College; M.D. 1960, Cornell University. (1962; 1980)
- Bernard M. Rosoff, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1953 and M.D. 1957, New York University. (1973)
- Albert M. Ross, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1956, Swarthmore College; M.D. 1960, Yale University. (1964; 1970)
- Gail S. Ross, Instructor of Psychology in Psychiatry. M.A. 1969, University of Chicago; Ph.D. 1977, Harvard University. (1978; 1980)
- Gilbert L. Ross, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1968, Cornell University; M.D. 1972, New York University. (1979)
- Jeffrey M. Ross, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.S. 1971 and M.D. 1974, University of New Mexico. (1979)
- John M. Ross, Clinical Instructor of Psychology in Psychiatry. Professional Associate, Department of Psychiatry, New York Hospital. B.A. 1967, Harvard University; M.A. 1973 and Ph.D. 1974, New York University. (1978)
- Marilyn Ross, Clinical Instructor in Pediatrics. Clinical

- Affiliate, Department of Pediatrics, New York Hospital. A.B. 1965, Barnard College; M.D. 1969, Women's Medical College of Pennsylvania. (1978)
- Robert Adrian Ross, Assistant Professor of Neurobiology in Neurology. B.A. 1969, Hobart College; Ph.D. 1975, Cornell University. (1975; 1979)
- Roscoe A. Rossi, Clinical Assistant Professor of Anesthesiology. Attending Anesthesiologist, North Shore University Hospital; Assistant Attending Anesthesiologist, Memorial Hospital. B.S. 1953 and M.D. 1957, Georgetown University. (1972; 1975)
- Kenneth Rothaus, Instructor in Surgery (Plastic Surgery). Assistant Attending Surgeon, New York Hospital. B.S. 1971, Yale University; M.D. 1975, Harvard University. (1978: 1980)
- Sidney Rothbard, Emeritus Professor of Medicine. Honorary Staff, New York Hospital; Consultant, Hospital for Special Surgery. B.A. 1931, Colgate University; M.D. 1935, University of Rochester. (1938; 1973)
- Desider J. Rothe, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstětrician and Gynecologist, New York Hospital. M.D. 1961, University of Medical Sciences of Debrecen (Hungary). (1970; 1979)
- Herbert Rothenberg, Clinical Assistant Professor of Surgery. Associate Attending Surgeon, North Shore University Hospital. B.A. 1948, New York University; M.D. 1952, Michigan University. (1973; 1977)
- Lawrence N. Rothenberg, Associate Professor of Radiology (Physics). Assistant Attending Radiation Physicist, New York Hospital; Associate Attending Physicist, Department of Medical Physics, Memorial Hospital. A.B. 1962, University of Pennsylvania; M.S. 1964 and Ph.D. 1970, University of Wisconsin. (1971: 1979)
- Michael G. Rothenberg, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. A.B. 1963 and Ph.D. 1972, Columbia University. (1971; 1979)
- Samuel H. Rothfeld, Clinical Associate Professor of Surgery (Urology). Attending Surgeon (Urology), North Shore University Hospital. B.S. 1934, Columbia University; M.D.C.M. 1940, Dalhousie University (Canada). (1972; 1974)
- Lewis M. Rothman, Clinical Associate Professor of Radiology, B.A. 1961 and M.D. 1965, Cornell University. (1979)
- Arden Rothstein, Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1969, Harvard University; Ph.D. in Clinical Psychology 1974, Columbia University. (1979)
- David A. Rottenberg, Associate Professor of Neurology. Attending Neurologist, New York Hospital; Attending Physician, Memorial Hospital. B.A. 1963, University of Michigan: M.Sc. 1967, University of Cambridge; M.D. 1969, Harvard University. (1972; 1979)
- Joseph E. Rowan, Clinical Assistant Professor of Surgery (Dentistry). Assistant Attending Periodontist, New York Hospital. B.A. 1961, St. Michael's College; D.D.S. 1965, Georgetown University, College of Dentistry. (1977)
- Ellen B. Rowntree, Clinical Instructor in Psychiatry. Clinical Affiliate, Department of Psychiatry, New

- York Hospital. B.A. 1963, Wellesley College; M.D. 1968, Columbia University. (1978)
- Mark Rubenstein, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1964, New York University; M.D. 1971, State University of New York. (1977)
- William Allan Rubenstein, Assistant Professor of Radiology. A.B. 1969, Washington University; M.D. 1973, University of Pennsylvania. (1977; 1979)
- Albert L. Rubin, Professor of Biochemistry (Surgery); Professor of Surgery (Biochemistry); Professor of Medicine. Attending Surgeon; Attending Physician, New York Hospital. M.D. 1950, Cornell University. (1950; 1969)
- Kenneth A. Rubin, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. A.B. 1969, Cornell University; M.D. 1973, State University of New York. (1976; 1978)
- Hirsch S. Ruchlin, Professor of Economics in Public Health. B.A. 1963, Yeshiva College; M.A. 1965 and Ph.D. 1968, Columbia University. (1978)
- Emmanuel Rudd, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery, B.A. 1932 and M.D. 1939, University of Paris (France). (1955; 1974)
- David Armand Ruggiero, Instructor of Neurobiology in Neurology. B.A. 1972, Queens College; M.A. 1976 and Ph.D. 1977, Columbia University. (1979; 1980)
- Gary H. Rusk, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1965 and M.D. 1969, Northwestern University. (1975; 1978)
- Richard A. Ruskin, Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1940 and M.D. 1943, Duke University. (1952; 1972)
- L. Mark Russakoff, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. Clark University; M.D. 1971, State University of New York. (1977; 1979)
- Shawn Russell, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1973, Trinity College; M.D. 1977, New York Medical College. (1978; 1980)
- Anthony F. Russo, Clinical Instructor in Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. A.B. 1966, Brooklyn College; M.D. 1974, Creighton University School of Medicine. (1978)
- Samuel F. Ryan, Clinical Associate Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B.B.Ch. and B.A.O. 1954, Dublin University. (1957; 1968)
- Stuart E. Saal, Assistant Professor of Medicine; Assistant Professor of Surgery; Assistant Professor of Biochemistry (Surgery). Assistant Attending Physician; Assistant Attending Surgeon, New York Hospital. B.S. 1967, Hobart College; M.D. 1971, New York Medical College. (1974; 1978)
- Zoltan I. Saary, Clinical Assistant Professor of Obstetrics and Gynecology; Assistant Professor of Radiology. Assistant Attending Radiologist; Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1958, University of Szeged (Hungary). (1971; 1977)

- Hersch L. Sachs, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital, (1980)
- Michael H. Sacks, Associate Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1961, Williams College; B.A. 1963, Oxford University; M.D. 1967, New York University. (1975;
- Bijan Safai, Associate Professor of Clinical Medicine. Acting Chief; Associate Attending Physician, Dermatology Service, Department of Medicine. Memorial Hospital. Diploma in Natural Sciences, 1958. Alborze College (Iran); M.D. 1965, Tehran University (Iran). (1974; 1979)
- Clifford J. Sager, Clinical Professor of Psychiatry, B.S. 1937, Pennsylvania State College; M.D. 1941, New York University. (1980)
- Jean St. Germain, Assistant Professor of Clinical Radiology (Physics). Assistant Attending Radiation Physicist, New York Hospital.; Assistant Attending Physicist, Memorial Hospital. B.S. 1966, Marymount College; M.S. 1967, Rutgers University. (1971; 1978)
- Fatih Salih-Zada, Instructor in Surgery. Assistant Surgeon (Thoracic), New York Hospital, M.D. 1969, Medical Faculty of Lyon (France). (1978)
- Lee Salk, Clinical Professor of Pediatrics. Clinical Professor of Psychology in Psychiatry. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, and Ph.D. 1954, University of Michigan, (1966; 1977)
- Herbert P. Saltzman, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.S. 1967 and M.D. 1969, McGill University (Canada). (1979)
- Steven P. Saltzman, Clinical Instructor of Dentistry in Surgery. Assistant Attending Dentist, New York Hospital. B.A. 1975, University of Pennsylvania; D.D.S. 1979, State University of New York at Buffalo.
- Herbert David Saltzman, Adjunct Professor of Psychology in Psychiatry. A.B. 1952, Brooklyn College; M.A. 1954, University of North Carolina; Ph.D. 1961, University of Michigan. (1979)
- Sylvia Saltzstein, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1959, New York University; M.S. 1960, City College of New York; Ph.D. 1970, New York University. (1980)
- Eduardo A. Salvati, Associate Professor of Clinical Surgery (Orthopedics). Associate Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1956, National College of Quilmes (Argentina); M.D. 1963, Universidad de La Plata (Argentina). (1969; 1979)
- Richard L. Salzer, Clinical Instructor in Surgery. B.A. 1969, University of Pennsylvania; M.D. 1973, Tufts University. (1975; 1978)
- George K. Samios, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1952, City College of New York; M.D. 1958, Johns Hopkins University. (1962; 1980)
- Abdol H. Samiv. Professor of Clinical Medicine: Professor of Clinical Medicine in Psychiatry. B.A. 1950, Stanford University; M.A. 1952, University of California; M.D. 1956, Cornell University. (1957; 1979) Paul Samuel, Adjunct Professor of Medicine. B.A.

- 1945, Budapest (Hungary); M.D. 1953, University of Paris (France). (1979)
- Gregory W. Sanford, Clinical Instructor in Surgery (Dentistry). Clinical Affiliate, New York Hospital, B.A. 1971, University of Vermont; D.M.D. 1975, University of Pennsylvania; M.Sc.D. 1977, Boston University.
- Cyril Sanger, Clinical Assistant Professor of Anesthesiology. M.B.B.S. 1945, University of London (England). (1973)
- Charles A. Santos-Buch, Professor of Pathology. Attending Pathologist, New York Hospital. A.B. 1953. Harvard University; M.D. 1957, Cornell University. (1958: 1976)
- Clifford Baird Saper, Instructor in Clinical Neurology. B.S. and M.S. 1972, University of Illinois; M.D. and Ph.D. 1977, Washington University. (1978; 1980)
- Salil Sarkar, Assistant Professor of Radiology. M.B.B.S. 1968, Armed Forces Medical College. (1980)
- Antonio Sastre, Adjunct Assistant Professor of Pharmacology. B.A. 1970, M.S. 1973, and Ph.D. 1974, Cornell University. (1976; 1979)
- Christopher D. Saudek, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1963, Harvard College; M.D. 1967, Cornell University. (1973)
- Michael B. Saul Clinical Instructor of Dentistry in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1963, Harpur College; D.M.D. 1967, University of Pennsylvania. (1978)
- Gary Savatsky, Instructor in Surgery. Orthopedic Fellow, Hospital for Special Surgery. B.A. 1971, Dartmouth College; M.D. 1975, Columbia University.
- David H. Sawyer, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital, B.A. 1974. Swarthmore College; M.D. 1977, New York Medical College. (1978; 1980)
- Brij B. Saxena, Professor of Endocrinology in Obstetrics and Gynecology; Professor of Biochemistry in Medicine. Ph.D. 1954, University of Lucknow (India); D.Sc. 1957, University of Meunster (West Germany); Ph.D. 1961, University of Wisconsin. (1966; 1974)
- Henri Sayegh, Clinical Instructor in Anesthesiology. Provisional Attending Anesthesiologist, North Shore University Hospital. M.D. 1971, Damascus Medical School (Syria). (1978)
- George Schaefer, Emeritus Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell University. (1951: 1978)
- John Andrew Schaefer, Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. M.B.B.S. 1968, University of Melbourne (Australia). (1974)
- Robert Schaefer, Associate Professor of Clinical Medicine. Associate Attending Physician, New York Hospital. A.B. 1959, Yale University; M.D. 1963, Columbia University. (1969; 1979)
- Roy Schafer, Clinical Professor of Psychology in Psychiatry. Attending Psychologist, New York Hospital. B.S. 1943, City College of New York; M.A. 1947, University of Kansas; Ph.D. 1950, Clark University. (1976: 1979)
- Sylvia Schechner, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital.

- B.S. 1960, City College of New York; M.S. 1963 and M.D. 1968, University of Vermont; M.P.H. 1972, University of California. (1977)
- Stephen S. Scheidt, Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Cardiopulmonary Service, Memorial Hospital. A.B. 1960, Princeton University; M.D. 1965, Columbia University. (1968;
- Jonah W. Schein, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. A.B. 1965, Columbia University; M.D. 1969, New York University. (1976)
- Ellen Scheiner, Associate Professor of Clinical Medicine. Associate Attending Physician, Clinical Physiology and Renal Service, Memorial Hospital. B.A. 1952, Brooklyn College; M.D. 1960, University of Lausanne (Switzerland). (1962; 1979)
- William F. Scherer, Professor of Microbiology (Chairman). M.D. 1947, University of Rochester. (1962)
- Lawrence Scherr, Professor of Medicine. Associate Dean, Attending Physician, New York Hospital; Director, Department of Medicine, North Shore University Hospital, A.B. 1950 and M.D. 1957, Cornell University. (1958; 1971)
- Alfred L. Scherzer, Clinical Professor of Pediatrics; Adjunct Professor of Public Health. Attending Pediatrician, New York Hospital: Consultant, Hospital for Special Surgery. A.B. 1949, M.S.P.H. 1950, and Ed.D. 1954, Columbia University; M.A. 1957, Yale University; M.D. 1963, Columbia University. (1965;
- Katherine-Ruth S. Scherzer, Visiting Assistant Professor of Psychology in Psychiatry. B.A. 1967, Sir George Williams College; B.Ph 1968, M.P.S. 1969 and Ph.D. 1974, University of Montreal (Canada).
- Peter J. Schlachet, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. Ph.D. 1964, New York University. (1979)
- Irwin D. Schlesinger, Clinical Associate Professor of Neurology. Assistant Attending Neurologist, North Shore University Hospital. B.A. 1956, Brooklyn College; M.D. 1961, State University of New York. (1962: 1978)
- W. Shain Schley, Clinical Assistant Professor of Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital. B.S. 1962 and M.D. 1966, Emory University. (1970; 1975)
- Clare Schmais, Adjunct Assistant Professor of Psychiatry (Dance Therapy). B.A. 1949 and M.S. 1969, Hunter College. (1976)
- Michael Schmerin, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1969, University of Virginia; M.D. 1973, Thomas Jefferson University. (1977)
- J. Kenneth Schmidt, Clinical Assistant Professor of Surgery (Dentistry). Assistant Attending Dentist (Roentgenologist), New York Hospital. B.S. 1937, New York University; M.D. 1941, Harvard University.
- Max Schnapp, Clinical Instructor in Anesthesiology. B.A. 1947 and M.B.B.S. 1953, University of Melbourne (Australia). (1976)
- Roland E. Schneckloth, Associate Professor of Clinical Medicine. Associate Dean, Cornell University Medi-

- cal College, B.A. 1942 and M.D. 1945, University of Nebraska. (1974; 1979)
- Keith M. Schneider, Clinical Associate Professor of Surgery. Attending Surgeon (Pediatric Surgery), North Shore University Hospital. B.A. 1947, Clark University; M.D. 1951, New York University. (1972;
- Morton Schneider, Associate Professor of Clinical Radiology. Associate Attending Radiologist, New York Hospital, B.S. 1966, Dalhousie University (Canada); M.D. 1970, State University of New York Downstate Medical Center. (1979)
- Robert Schneider, Assistant Professor of Radiology. A.B. 1964, Columbia University; M.D. 1969, New York Medical College. (1973; 1980)
- Marie-Louise Schoelly, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital, M.D. 1942, University of Zurich (Switzerland). (1950; 1978)
- William N. Schoenfeld, Adjunct Professor of Psychology in Psychiatry. B.S. 1937, College of the City of New York; A.M. 1939 and Ph.D. 1942, Columbia University. (1966; 1975)
- Jesse Schomer, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1948, Columbia University; M.D. 1952, New York University. (1974; 1979)
- Arthur H. Schore, Clinical Instructor in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. B.A. 1960, New York University; M.D. 1965, Chicago Medical School. (1978)
- David Schottenfeld, Professor of Public Health. Attending Physician, Memorial Hospital. B.A. 1952, Hamilton College; M.D. 1956, Cornell University; M.S. 1963, Harvard University. (1957; 1973)
- Alan Schrenzel, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.S. 1946, City College of New York; B.M. 1948 and M.D. 1949, Chicago Medical School. (1977)
- Kathryn A. Schrotenboer, Clinical Instructor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital, B.S. 1971 and M.D. 1975, University of Michigan. (1976;
- Edward T. Schubert, Assistant Professor of Biochemistry: Assistant Professor of Biochemistry in Pediatrics. B.S. 1949, M.S. 1952, and Ph.D. 1959, Fordham University. (1959; 1965)
- Norman H. Schulman, Clinical Instructor in Surgery. B.S. 1961 and M.D. 1965, Tufts University. (1977)
- Philip Schulman, Instructor in Medicine. Provisional Staff, North Shore University Hospital. B.S. 1970, College of the City of New York; M.D. 1974, State University of New York Upstate Medical Center.
- Jean E. Schultz, Clinical Assistant Professor of Psychiatry. Staff Psychiatrist, North Shore University Hospital. B.S. 1950, Bates College; M.D. 1956, Woman's College; M.P.H. 1960 and M.S. 1967, Columbia University. (1970; 1977)
- James S. Schutz, Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. Associate Attending Surgeon, Manhattan Eye, Ear, and Throat Hospital. A.B. 1965, Yale University; M.D. 1969, Harvard University. (1976; 1978)

- Seymour Schutzer, Clinical Assistant Professor of Medicine, Honorary Staff, North Shore University Hospital. A.B. 1934, Cornell University; M.D. 1942, Queens University. (1971)
- Leonard Schuyler, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke University. (1954; 1965)
- Marilyn Schwab, Clinical Instructor in Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital, B.A. 1949, New York University: M.B. 1953 and M.D. 1954, Chicago Medical School. (1972)
- Ida Ellen Schwabb, Clinical Instructor in Obstetrics, Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1970, Cornell University; M.D. 1976, New Jersey College of Medicine. (1977; 1980)
- Robert G. Schwager, Clinical Instructor in Anatomy. Clinical Instructor in Surgery (Plastic), B.A. 1963. University of Virginia; M.D. 1967, Cornell University. (1973; 1979)
- Arthur M. Schwartz, Adjunct Assistant Professor of Psychiatry. B.Sc. 1941 and M.D. 1943, University of Cincinnati. (1980)
- David G. Schwartz, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. A.B. 1937, Cornell University; M.D. 1941, Louisiana State University. (1971;
- Doris Schwartz, Emeritus Clinical Associate Professor of Nursing in Public Health. B.S. 1953 and M.A. 1958, New York University. (1972; 1980)
- Ernest Schwartz, Clinical Associate Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1945, M.A. 1950 and M.D. 1951, Columbia University. (1958: 1970)
- Eugene D. Schwartz, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1943 and M.D. 1947, University of Virginia. (1971)
- Fred Schwartz, Associate Professor of Psychology in Psychiatry. Associate Attending Psychologist, New York Hospital. B.S. 1951 and M.A. 1952, City College of New York; Ph.D. 1959, University of Massachusetts. (1974)
- Fred S. Schwartz, Adjunct Assistant Professor of Medicine. B.A. 1965, Hamilton College; M.D. 1969, Albany Medical College. (1979)
- Jerold Schwartz, Clinical Assistant Professor of Anesthesiology. Associate Attending Anesthesiologist. New York Hospital. A.B. 1952, Columbia University M.D. 1956, New York Medical College. (1961; 1972)
- Kenneth S. Schwartz, Clinical Instructor in Radiology. B.S. 1966, Brooklyn College; M.D. 1972, Albert Einstein College of Medicine. (1979)
- Paul C. Schwartz, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. M.D. 1966, State University of New York. (1968; 1977)
- Olga Schweizer, Associate Professor of Anesthesiology. Attending Anesthesiologist and Chief, Department of Anesthesiology, Memorial Hospital. A.B. 1932, Barnard College; M.D. 1937, Columbia University. (1954; 1968)
- Kenneth P. Scileppi, Instructor in Medicine. Clinical

- Fellow, New York Hospital. B.S. 1972 and M.D. 1976, State University of New York. (1979; 1980)
- W. Norman Scott, Clinical Instructor in Surgery, A.B. 1968, University of Pennsylvania; M.D. 1972, Cornell University. (1974; 1977)
- Thomas P. Sculco, Assistant Professor of Clinical Surgery (Orthopedics). Assistant Attending Surgeon, New York Hospital. A.B. 1965, Brown University; M.D. 1969, Columbia University. (1977; 1979)
- Jean E. Sealey, Associate Professor of Physiology in Medicine. B.Sc. 1959 and D.Sc. 1974, Glasgow University (Scotland). (1975; 1977)
- Jeri A. Sechzer, Associate Professor of Psychology in Psychiatry. B.S. 1956, New York University; M.A. 1961 and Ph.D. 1962, University of Pennsylvania. (1970; 1971)
- William T. Seed, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1954, Williams College; M.D. 1962, Cornell University. (1964; 1979)
- Edward E. Seelye, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1948, Columbia University; M.D. 1955, Union University. (1965; 1968)
- S. Warren Seides, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1954, Yale University; M.D. 1958, Columbia University. (1979)
- Chitra Sekaran, Clinical Instructor in Pediatrics. M.B.B.S. 1971, Delhi University (India). (1979)
- Henry M. Selby, Clinical Assistant Professor of Radiology. Associate Attending Roentgenologist, Memorial Hospital. B.S. 1940 and M.D. 1943, Louisiana State University. (1950; 1961)
- Robert W. Selfe, Clinical Associate Professor of Otorhinolaryngology. Associate Attending Otorhinolaryngologist, New York Hospital. B.S. 1965 and M.D. 1968, Ohio State University. (1969; 1978)
- Arthur W. Seligmann, Emeritus Clinical Associate Professor of Medicine; Emeritus Clinical Associate Professor of Public Health. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia University; M.D. 1937, Cornell University. (1955;
- Jay W. Selman, Assistant Professor of Clinical Neurology. A.B. 1967 and M.S. 1969, Washington University; M.D. 1973, University of Texas. (1980)
- Michael A. Selzer, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1955, Stanford University; M.D. 1960, Western Reserve University. (1966; 1979)
- Walter Sencer, Adjunct Associate Professor of Psychiatry. B.S. 1942, College of the City of New York; M.D. 1946, New York University. (1975)
- Lawrence B. Senterfit, Associate Professor of Microbiology; Associate Professor of Pathology. Director, Laboratory of Microbiology, New York Hospital. B.S. 1949 and M.S. 1950, University of Florida; Sc.D. 1955, Johns Hopkins University. (1964; 1976)
- Blanche L. Serwer, Visiting Clinical Associate Professor of Psychology in Psychiatry. Associate Attending Psychologist in Psychiatry, New York Hospital. B.A. 1931, Barnard College; M.S. 1960, City College of New York; Ph.D. 1966, New York University.
- Sally Severino, Clinical Instructor in Psychiatry, Clinical Affiliate, Department of Psychiatry, New York

Hospital. B.A. 1961, Wichita State University; M.A. 1966 and M.D. 1970, Columbia Universsity. (1978)

John H. Seward, Clinical Assistant Professor of Otorhinolaryngology. Assistant Attending Otorhinolaryngologist, New York Hospital. B.S. 1956 and M.A. 1958. Duke University: M.D. 1961. New York Medical College. (1968; 1970)

George Sferra, Clinical Instructor in Surgery (Dentistry). Assistant Attending Surgeon (Prosthodontists), New York Hospital. B.S. 1972, University of Dayton; D.D.S. 1975, University of Michigan. (1977)

- Donald M. Shafer, Clinical Professor of Ophthalmology. Attending Ophthalmologist-in-Chief, New York Hospital. A.B. 1932, Columbia University; M.D. 1936, Cornell University. (1958; 1969)
- Jatin P. Shah, Associate Professor of Surgery. M.B.B.S. 1964, Medical College, Baroda (India). (1970; 1980)
- Kanta C. Shah, Clinical Assistant Professor of Medicine. Clinical Affiliate, Department of Medicine, New York Hospital. M.D. 1968, TN Medical College, Bombay (India). (1972; 1977)

Joseph E. Shahmoon, Clinical Instructor in Anesthesiology. B.S.M.B. 1951, University of London (England), (1974)

Benson H. Shalette, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1956. Swarthmore College; M.D. 1960, New York University. (1972)

- Charles A. Shamoian, Associate Professor of Clinical Psychiatry: Clinical Associate Professor of Pharmacology, Associate Attending Psychiatrist, New York Hospital, B.A. 1954 and M.A. 1956, Clark University; Ph.D. 1960 and M.D. 1966, Tufts University. (1968; 1979)
- Brenda Shank, Instructor in Radiology. Ph.D. 1966. Case Western Reserve University; M.D. 1976, C.M.D.N.J., Rutgers University. (1980)
- Carol Shapiro, Assistant Professor of Clinical Medicine. Assistant Attending Physician, New York Hospital, B.A. 1969, Barnard College; M.D. 1973, State University of New York Downstate Medical College. (1979; 1980)
- David A. Shapiro, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S., B.R.E. 1960, Yeshiva University; M.D. 1964, Chicago Medical School. (1976)
- Harvey N. Shapiro, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. A.B. 1945, Columbia University; M.D. 1948, New York University. (1978; 1980)
- Roger L. Shapiro, Visiting Professor of Psychiatry. Attending Psychiatrist, New York Hospital. A.B. 1947 and M.D. 1949, University of Chicago. (1979)
- Theodore Shapiro, Professor of Psychiatry, Professor of Psychiatry in Pediatrics. Attending Psychiatrist, New York Hospital. B.A. 1953, Wesleyan University; M.D. 1957, Cornell University. (1976)
- William Richard Shapiro, Professor of Neurology. Attending Neurologist, New York Hospital; Associate Attending Physician, Department of Neurology, Memorial Hospital. B.A. 1958 and M.D. 1961, University of California. (1963; 1977)
- Stephen D. Shappell, Clinical Associate Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. A.B. 1961, Columbia University; M.D. 1965, Cornell University. (1976)

- Leroy R. Sharer, Assistant Professor of Pathology. B.A. 1965 and M.D. 1969, Cornell University. (1970; 1974)
- Mary Katherine Shear, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1967, University of Chicago: M.D. 1972. Tufts University. (1976: 1980)
- Charles Sheard, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital, M.D. 1939, University of Toronto (Canada); F.R.C.P. 1949, Royal College of Physicians of Canada. (1951; 1974)
- Joseph Shein, Clinical Assistant Professor of Pediatrics. Attending Staff, North Shore University Hospital. M.D. 1939, University of the Witwatersrand (South Africa). (1972)
- Paul Sherlock, Professor of Medicine. Attending Physician, New York Hospital; Attending Physician, Acting Chairman, Department of Medicine, Memorial Hospital. B.S. 1950, Queens College; M.D. 1954, Cornell University. (1957; 1975)
- Miriam Sherman, Assistant Professor of Psychiatry; Assistant Professor of Psychiatry in Pediatrics. Assistant Attending Psychiatrist; Assistant Attending Psychiatrist in Pediatrics, New York Hospital. A.B. 1956, Barnard College; M.D. 1960, New York University. (1977)
- Raymond L. Sherman, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1956, Columbia University; M.D. 1961, State University of New York. (1967: 1976)
- Andrew S. Sherwin, Clinical Instructor in Obstetrics and Gynecology. Active Staff, North Shore University Hospital. B.S. 1935, New York University; M.D. 1939, Michigan University. (1972)
- Jeffrey M. Sherwood, Clinical Instructor in Surgery. B.A. 1965, Brooklyn College; M.D. 1969, Georgetown University. (1970; 1975)
- Madoka Shibuya, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1938, M.A. 1939 and M.D. 1948, Stanford University. (1953; 1976)
- Harold Shifrin, Clinical Instructor in Anesthesiology. Attending Anesthesiologist, North Shore University Hospital. M.D. 1949, University of Kansas. (1972)
- Maurice E. Shils, Professor of Medicine. Attending Physician, Memorial Hospital. B.A. 1937 and Sc.D. 1940, Johns Hopkins University; M.D. 1958, New York University. (1962; 1979)
- Maurice A. Shinefield, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician to Outpatients, New York Hospital. Ph.G. 1930, Rutgers University: B.A. 1933, University of Alabama; M.D. 1937, Rush Medical College. (1971; 1974)
- G. Thomas Shires, Lewis Atterbury Stimson Professor of Surgery (Chairman). Surgeon-in-Chief, New York Hospital. M.D. 1948, University of Texas Southwestern Medical School. (1975)
- Man Hei Shiu, Associate Professor of Clinical Surgery. Assistant Attending Surgeon, Gastric and Mixed Tumor Service, Memorial Hospital, M.B.B.S. 1961, University of Hong Kong. (1973; 1980)
- Concepcion G. Sia, Assistant Professor of Pediatrics. Assistant Pediatrician to Outpatients, North Shore University Hospital. A.A. 1962 and M.D. 1967, University of Santo Tomas (Philippines). (1973; 1976)
- Edwina Siu-Chu Sia-Kho, Instructor in Anesthesiology. Assistant Attending Anesthesiologist, New York

- Hospital. M.D. 1968, University of Santo Tomas (Philippines), (1973: 1974)
- Sidney J. Siegel, Clinical Assistant Professor of Obstetrics and Gynecology. Active Staff, North Shore University Hospital, B.S. 1933 and M.D. 1938. Dalhousie University (Canada), (1971; 1976)
- Stephen R. Siegel, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1967, Adelphi University; M.D. 1971, Medical College of Virginia. (1979)
- Jesse Sigelman, Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. A.B. 1967, Haverford College; M.D. 1971, Harvard University. (1979)
- Selma Silagi, Professor of Genetics in Obstetrics and Gynecology, B.A. 1936, Hunter College; A.M. 1938 and Ph.D. 1961, Columbia University. (1965; 1974)
- Michael F. Silane, Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. B.S. 1965 and M.D. 1969, Georgetown University. (1970; 1975)
- Susan T. Silk, Instructor in Medicine. B.Ch.E. 1954. City College of New York; M.S. 1963 and Ph.D. 1970, New York University. (1972; 1977)
- Hilton Silver, Clinical Instructor in Pediatrics. M.B.B.Ch. 1960, University of the Witwatersrand (South Africa): M.R.C.P.E. 1965, Royal College of Physicians (England). (1979)
- Lawrence D. Silver, Clinical Instructor in Anesthesiology. B.A. 1964, Ohio State University; M.D. 1969, Howard University, (1973)
- Richard T. Silver, Clinical Professor of Medicine. Attending Physician, New York Hospital, A.B. 1950 and M.D. 1953, Cornell University. (1956; 1973)
- Gittel Silverberg, Instructor in Genetics in Pediatrics. B.Sc. 1951 and B.Ed. 1952, McGill University (Canada): M.Sc. 1974, Sarah Lawrence College. (1976)
- Mervin Silverberg, Professor of Pediatrics. Attending Pediatrician, New York Hospital; Director, Department of Pediatrics, North Shore University Hospital. B.Sc. 1950 and M.D.C.M. 1954, McGill University (Canada). (1972)
- Frederick Silverman, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory University; M.D. 1953, Indiana University. (1958; 1976)
- Gerald M. Silverman, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1950 and M.D. 1953, Cornell University. (1956; 1965)
- David C. Silverstein, Clinical Assistant Professor of Surgery. Attending Surgeon (Orthopedics), North Shore University Hospital. B.A. 1947 ad M.D. 1951, University of Toronto (Canada). (1972; 1977)
- Howard B. Simon. Clinical Assistant Professor of Surgery (Urology). B.S. 1945 and M.D. 1948, Yale University; M.S. 1955, University of Minnesota.
- Robert M. Simon, Adjunct Assistant Professor of Psychiatry. B.A. 1955, Harvard University; M.D. 1959, Albert Einstein College of Medicine. (1980)
- Larry D. Simpson, Assistant Professor of Physics in Radiology. Assistant Attending Physician, Memorial Hospital. B.A. 1966, M.D. 1969, and Ph.D. 1971, University of Kansas. (1972; 1978)
- Harry A. Sinclaire, Clinical Assistant Professor of Med-

- icine. Clinical Affiliate in Medicine, New York Hospital. A.B. 1943. Amherst College; M.D. 1946, Cornell University. (1949: 1969)
- Barry L. Singer, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1949, Brooklyn College: M.A. 1951. University of Chicago; M.D. 1961, State University of New York. (1977)
- Shubha Sinha, Instructor in Clinical Psychiatry. Assistant Psychiatrist, New York Hospital. M.B.B.S. 1974, GS Medical College (India). (1978; 1980)
- Marcello Siniscalco, Adjunct Professor of Medicine. M.D. 1948, University of Naples (Italy), (1974)
- Julio L. Sirlin, Professor of Anatomy. D.Sc. 1953, University of Buenos Aires (Argentina), (1967: 1973)
- Gregory W. Siskind, Professor of Medicine, Attending Physician, New York Hospital. A.B. 1955, Cornell University; M.D. 1959, New York University. (1969:
- Bernard D. Sklansky, Clinical Instructor in Surgery (Plastic). Clinical Affiliate, Department of Surgery. New York Hospital. B.A. 1965, City College of New York; M.D. 1969, State University of New York.
- Donald R. Skog, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1967, Colgate University; M.D. 1971, New Jersey College of Medicine. (1972; 1980)
- Zalec Skolnik, Clinical Instructor in Psychiatry. Associate Attending Psychiatrist, North Shore University Hospital. M.D. 1949, Western Reserve University.
- Paul A. Skudder, Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital. B.A. 1949, Middlebury College; M.D. 1953, Cornell University. (1954; 1972)
- Beatrice S. Slater, Clinical Instructor in Pediatrics. Clinical Affiliate in Pediatrics, New York Hospital. B.A. 1928, Hunter College; M.Sc. 1932 and M.D. 1940, New York University. (1952; 1962)
- Marvin Small, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. B.A. 1948 and M.D. 1952, New York University. (1972)
- Malcolm G. Smilay, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1949, University of Michigan; M.D. 1958, University of Munich (Germany). (1971)
- David I. Smith, Clinical Instructor Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.S. 1952, Union College; M.D. 1956, New York University. (1960; 1972)
- Gerard P. Smith, Professor of Psychiatry (Behavioral Science). Attending Psychiatrist (Behavioral Science), New York Hospital. B.S. 1956, St. Joseph's College; M.D. 1960, University of Pennsylvania. (1968; 1973)
- James P. Smith, Clinical Instructor Professor of Medicine. Associate Attending Physician, New York Hospital. B.S. 1956 ad M.D. 1960, Georgetown University. (1961; 1973)
- James W. Smith, Clinical Associate Professor of Surgery (Plastic). Associate Attending Surgeon. Plastic Surgery, New York Hospital. B.S. 1948, Western Reserve University; M.D. 1952, Columbia University. (1957; 1972)

- Julius Smith, Clinical Associate Professor of Radiology. Attending Roentgenologist, Diagnostic Radiology, Memorial Hospital. M.B.Ch.B. 1954, University of Cape Town (South Africa); M.R.C.P. 1963, Royal College of Physicians (England); F.F.R. 1968, Faculty of Radiology (England). (1970; 1979)
- Charles Smithen. Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1961; M.D. 1965, University of Manitoba (Canada). (1971; 1977)
- Martin Smithline, Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. A.B. 1963 and B.S. 1964, Columbia University; M.D. 1968, New York University. (1971: 1978)
- Elizabeth M. Smithwick, Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1948 and M.D. 1955, University of Wisconsin. (1974)
- Alan G. Snart, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. M.B.B.S. 1957, University of London (England). (1959: 1973)
- Kenneth W. Sniderman, Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital. B.Sc. 1970 and M.D. 1970, University of Toronto (Canada). (1976; 1977)
- Ruth E. Snyder, Clinical Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital; Associate Attending Roentgenologist, Memorial Hospital. B.A. 1932, Park College; M.D. 1936, University of Texas. (1952; 1964)
- Henry B. So, Clinical Instructor in Surgery. Assistant Attending Surgeon, North Shore University Hospital. A.A. 1954 and M.D. 1959, University of Santo Tomas (Philippines). (1978)
- David E. Sobel, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York
   Hospital. B.A. 1949, University of North Carolina;
   M.D. 1953, Cornell University. (1966; 1978)
- Lawrence Sobel, Clinical Instructor in Psychiatry. B.A. 1970, Brooklyn College; M.D. 1974, Medical College of Virginia. (1980)
- Leslie H. Sobin, Adjunct Professor of Pathology. B.S. 1955, Union College; M.D. 1959, State University of New York. (1968; 1970)
- Edward R. Sodaro, Jr., Instructor in Psychiatry. B.S. 1969, St. Bernadine of Siena; M.D. 1973, Georgetown University; M.A. 1976, New School for Social Research. (1980)
- Paul Soffer, Clinical Instructor in Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. M.D. 1949, New York University. (1972)
- Richard L. Soffer, Professor of Biochemistry; Professor of Medicine. Attending Physician, New York Hospital. B.A. 1954, Amherst College; M.D. 1958, Harvard University. (1976)
- Pramod C. Sogani, Assistant Professor of Surgery. Clinical Assistant Surgeon, Urology Service, Memorial Hospital. M.B.B.S. 1960 and M.S. 1964, M.G.M. Medical College (India). (1974; 1975)
- Yanatan Sokal, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1971, New York University; M.D. 1974, Albert Einstein College of Medicine. (1979)

- Louis Sokoloff, Adjunct Professor of Neurology. B.A. 1943 and M.D. 1946, University of Pennsylvania. (1979)
- Louis M. Soletsky, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.A. 1945, New York University; M.D. 1950, Hahnemann Medical College. (1972; 1974)
- Meyer N. Solny, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1970, Yeshiva University; M.D. 1974, Columbia University. (1979)
- Gail Ellin Solomon, Associate Professor of Clinical Neurology; Associate Professor of Clinical Neurology in Pediatrics. Associate Attending Neurologist; Associate Attending Pediatrician, New York Hospital. B.A. 1958, Smith College; M.D. 1962, Albert Einstein College of Medicine. (1964: 1979)
- Henry A. Solomon, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1958 and M.D. 1962, Columbia University. (1967; 1971)
- Josef Soloway, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. A.B. 1956, Brown University; M.D. 1960, New York University. (1962; 1971)
- Adrian Sondheimer, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1965, University of Pennsylvania; M.D. 1970, University of Rochester. (1979)
- Martin Sonenberg, Professor of Medicine. Assistant Attending Physician, New York Hospital; Attending Physician and Chief, Endocrinology Service, Memorial Hospital.. A.B. 1941, University of Pennsylvania; M.D. 1944 ad Ph.D. 1952, New York University. (1952; 1972)
- Lawrence S. Sonkin, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.S. 1941, College of the City of New York; M.S. 1942, University of Wisconsin; Ph.D. 1949 and M.D. 1950, University of Chicago. (1951; 1968)
- Michael Sorell, Assistant Professor of Pediatrics.
  Assistant Attending Pediatrician, New York Hospital.
  A.B. 1968, University of Rochester, M.D. 1972,
  Albert Einstein College of Medicine. (1979)
- Thomas A. Sos, Professor of Radiology. Associate Attending Radiologist, New York Hospital. B.A. 1964, Queens College; M.D. 1968, Harvard University. (1976: 1980)
- Julio Sotelo, Clinical Assistant Professor of Medicine. Clinical Affiliate, Department of Medicine, New York Hospital. M.D. 1962, San Marcos University (Peru). (1978)
- David S. Speer, Clinical Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. A.B. 1938, Princeton University; M.D. 1943, Harvard University. (1944; 1974)
- James H. Spencer, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst College; M.A. 1953, Stanford University; M.D. 1960, Cornell University. (1962; 1977)
- Jerry A. Spiegel, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetricician and Gynecologist, North Shore University Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. (1972)

- Mark A. Spiegel, Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital. B.A. 1971, Yale University; M.D. 1975, Cornell University. (1977; 1978)
- Martha Spiegelman, Adjunct Associate Professor of Anatomy, B.A. 1958, Albertus Magnus College: M.D. 1965 and Ph.D. 1970, Columbia University, (1970;
- Gerald M. Spielman, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician to Outpatients, New York Hospital. B.S. 1962, Union College; M.D. 1966, Albert Einstein College of Medicine. (1967: 1975)
- Nathaniel Spier, Clinical Associate Professor of Surgery, Attending Surgeon, North Shore University Hospital. B.A. 1954, Brooklyn College; M.D. 1958, State University of New York. (1972; 1977)
- Andre B. Spindler, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.S. 1965, Queens College; M.D. 1969, State University of New York. (1977)
- Irvin A. S. Spira, Clinical Assistant Professor of Surgery. Senior Assistant Attending Surgeon (Orthopedics), North Shore University Hospital: Orthopedic Surgeon to Outpatients, Hospital for Special Surgery. B.S. 1960, Roosevelt University; M.D.C.M. 1964, McGill University (Canada). (1972;
- Ronald H. Spiro, Assistant Professor of Surgery. Associate Attending Surgeon, Head and Neck Service, Memorial Hospital. A.B. 1951, Syracuse University; M.D. 1955, State University of New York at Syracuse. (1973)
- Max Spital, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, Brooklyn College; M.A. 1949, Columbia University; M.D. 1962, State University of New York. (1966: 1979)
- Edson L. Stannard, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital, B.S. 1941, University of New Hampshire; M.D. 1944, New York University. (1975)
- Richard M. Stark, Clinical Associate Professor of Surgery. Attending Surgeon, North Shore University Hospital. B.S. 1953, Union College; M.D. 1957, Chicago Medical School. (1962; 1973)
- George Stassa, Clinical Associate Professor of Radiology; Clinical Associate Professor of Anatomy. Associate Attending Radiologist, New York Hospital. A.B. 1956 and M.D. 1960, Columbia University. (1964; 1975)
- Harry Statman, Clinical Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. B.S. 1950, University of Arkansas; M.D. 1954, State University of New York. (1978)
- Tom G. Stauffer, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1940 and M.D. 1943, Washington University. (1965; 1977)
- Donald M. Stavis, Instructor in Radiology, B.A. 1968. Queens College; M.D. 1972, Albert Einstein College of Medicine. (1979)
- E. Thomas Steadman, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1950 and M.A. 1953, Amherst College; M.D. 1957, Cornell University. (1959; 1971)

- Maus W. Stearns, Associate Professor of Surgery. Attending Surgeon and Chief, Rectal and Colon Service, Memorial Hospital. A.B. 1935, Union College; M.D. 1939, Albany Medical College. (1950; 1972)
- Sheldon E. Stearns, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital B.S. 1954 and M.D. 1957, University of Illinois. (1975)
- Joel Steckelman, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1961, City College of New York; M.D. 1965, State University of New York. (1967: 1978)
- Harry L. Stein, Professor of Radiology, Director, Department of Radiology, North Shore University Hospital, B.A. 1953, New York University: M.D. 1957. State University of New York. (1962: 1975)
- Ralph Stein, Clinical Assistant Professor of Pediatrics Assistant Attending Pediatrician, New York Hospital. B.A. 1947, New York University; M.D. 1953, University of Zurich (Switzerland). (1971; 1978)
- Stefan P. Stein, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist. B.S. 1959, Union College; M.D. 1963, New York University. (1977; 1979)
- Charles R. Steinberg, Associate Professor of Clinical Medicine. Associate Attending Physician, New York Hospital. A.B. 1960, Brown University; M.D. 1964, Cornell University. (1965; 1979)
- Herman Steinberg, Clinical Professor of Medicine. Attending Physician, New York Hospital. A.B. 1941, Columbia University; M.D. 1945, Union University. (1952; 1976)
- Israel Steinberg, Emeritus Clinical Professor of Radiology. B.S. 1924 and M.D. 1928, Harvard University. (1941; 1967)
- Laurel J. Steinherz, Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1967, University of Rochester; M.D. 1970, Albert Einstein College of Medicine. (1978)
- Allan Stempler, Clinical Instructor in Psychiatry, B.A. 1963, University of Rochester; M.D. 1969, University of Mississippi. (1980)
- Kurt H. Stenzel, Professor of Biochemistry (Surgery); Professor of Surgery (Biochemistry); Professor of Medicine. Attending Surgeon; Attending Physician, New York Hospital. B.A. 1954, New York University; M.D. 1958, Cornell University. (1958; 1976)
- Roy A. Stephens, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1954, City College of New York; M.D. 1959, Bowman Gray. (1975)
- Daniel N. Stern, Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1956, Harvard University; M.D. 1960, Albert Einstein College of Medicine. (1976)
- Peter H. Stern, Clinical Associate Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. B.S. 1941, University of Berlin; M.D. 1945, Innsbruck (Austria). (1961; 1975)
- Richard Stern, Clinical Instructor in Medicine. Clinical Affiliate, New York Hospital. A.B. 1966, University of Pennsylvania; M.D. 1970, Tufts University. (1971; 1979)
- Norma W. Sternberg, Associate Professor of Pediatrics. Attending Pediatrician; Director, Pediatric Day

Hospital, Memorial Hospital, M.D. 1955, University of

Sao Paulo (Brazil). (1966; 1979)

Stephen S. Sternberg, Professor of Pathology. Attending Pathologist, Memorial Hospital. B.A. 1941, Colby College; M.D. 1944, New York University. (1972;

- Irving Sternschein, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1939 and M.D. 1942, University of Cincinnati. (1976)
- Cladd E. Stevens, Clinical Assistant Professor of Public Health. B.A. 1963, Pomona College; M.D. 1968, Baylor University; M.P.H. 1974, University of Washington. (1977)
- Mitchell A. Stevens, Clinical Instructor in Pediatrics. Clinical Affiliate, Department of Pediatrics, New York Hospital. B.S. 1966, Ursinus College; M.D. 1970, Temple University. (1977; 1978)
- Lewis D. Stevenson, Emeritus Professor of Neurology. B.A., M.D. 1916, Queen's University (Canada). (1922;
- John J. Stine, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1959, Columbia University; M.D. 1963, New York University. (1977; 1979)
- Peter E. Stokes, Associate Professor of Medicine; Associate Professor of Psychiatry, Associate Attending Physician; Associate Attending Psychiatrist, New York Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell University. (1953; 1971)
- Alex M. Stone, Clinical Instructor in Surgery. B.S. 1962, Rensselaer Polytechnic Institute; M.D. 1966, New York University. (1979)
- Carol Storey-Johnson, Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1973, Yale University; M.D. 1977, Cornell University. (1977; 1980)
- Diane E. Stover, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.S. 1966, St. John's University; M.D. 1970, Albert Einstein College of Medicine. (1977)
- Norman Straker, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1962 and M.D. 1966, McGill University (Canada). (1976)
- Lee R. Straub, Clinical Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Director, Outpatient Department; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill University (Canada). (1951; 1962)
- Leonard R. Straub, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1940, Fordham University; M.D. 1943. Cornell University. (1946: 1971)
- David J. Straus, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. A.B. 1965, University of Chicago; M.D. 1969, Marquette Medical School, Wisconsin. (1975; 1977)
- Lawrence Strauss, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1937, Columbia University; M.D. 1943. Middlesex University. (1971; 1974)
- Richard J. Strauss, Clinical Instructor in Surgery. B.A. 1968, New York University; M.D. 1972, State University of New York Downstate Medical Center. (1980) Robert L. Strauss, Clinical Instructor in Medicine.

- Assistant Attending Physician, North Shore University Hospital. B.A. 1970, University of Pennsylvania; M.D. 1974, Tufts University. (1979)
- Fritz H. Streuli, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. Maturitat 1949, Kantonsschule Aarau; Swiss M.D. degree 1956, University of Zurich; doctorate in medicine 1959, University of Zurich (Switzerland). (1963; 1973)
- Stanley Strick, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.S. 1953, Brooklyn College; M.D. 1958, State University of New York. (1975)
- Ronald Stritzler, Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1953, University of Vermont; M.D. 1959, University of Lausanne (Switzerland). (1979)
- Alan J. Strohmayer, Assistant Professor of Neurobiology in Psychiatry. B.S. 1970, State University of New York; Ph.D. 1977, Cornell University. (1979)
- Elliot W. Strong, Professor of Surgery. Attending Surgeon and Chief, Head and Neck Service, Memorial Hospital. B.S. 1952 and M.D. 1956, Tufts University. (1962; 1976)
- Michael J. Strongin, Clinical Instructor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1972 and M.D. 1973, Boston University. (1973; 1977)
- William T. Stubenbord, Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital. A.B. 1958, Yale University; M.D. 1962, Cornell University. (1963; 1976)
- Bernard N. Stulberg, Instructor in Surgery. B.A. 1970 and M.D. 1974, University of Michigan. (1976; 1977) Erasmo C. Sturla, Clinical Instructor in Medicine. Clini-
- cal Affiliate, New York Hospital. M.D. 1969, University of Barcelona (Spain). (1974; 1978)
- Valavanur A. Subramanian, Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital. M.B.B.S. 1961, University of Madras (India). (1975; 1978)
- Richard Suchinsky, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1955, University of Buffalo. (1977)
- John Y. Sugg, Emeritus Professor of Microbiology. A.B. 1926, M.S. 1928 and Ph.D. 1931, Vanderbilt University. (1932; 1969)
- Ryang Suh, Assistant Professor of Psychiatry. Assistant Psychiatrist, New York Hospital. M.D. 1969, Seoul National School (Korea). (1976; 1980)
- John Francis Sullivan, Associate Professor of Clinical Biochemistry; Associate Professor of Clinical Medicine; Associate Professor of Clinical Surgery. Associate Attending Physician, Department of Medicine, New York Hospital; Associate Attending Surgeon, Department of Surgery, New York Hospital. B.A. 1957, Holy Cross College; M.D. 1961, State University of New York. (1972; 1978)
- Joseph D. Sullivan, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham University; M.D. 1939, Cornell University. (1946; 1978)
- Tsieh Sun, Assistant Professor of Pathology. Assistant Attending Pathologist, North Shore University Hospi-

- tal. M.D. Hunan (Yale-in-China) Medical College; M.S. 1967, University of Hong Kong. (1975: 1976)
- Narayan Sundaresan, Assistant Professor of Surgery. M.B.B.S. 1968, Lucknow University (India). (1978;
- Fouad Surur, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital, M.B.B.Ch. 1961, Ein Shams Medical University (Egypt). (1974;
- Myron Susin, Associate Clinical Professor of Pathology. Attending Pathologist, North Shore University Hospital. B.A. 1956, Augustana College; M.D. 1960, University of Illinois. (1969; 1979)
- David G. Susman, Clinical Assistant Professor of Anesthesiology. Associate Attending Anesthesiologist, New York Hospital. M.D. 1962, Queen's University (Canada). (1963; 1968)
- Dieter H. Sussdorf, Associate Professor of Microbiology. B.A. 1952, University of Kansas City: Ph.D. 1956, University of Chicago. (1964; 1972)
- Maganlal K. Sutaria, Clinical Instructor in Surgery. Junior Assistant Attending Surgeon (Thoracic), North Shore University Hospital. M.B.B.S. 1961, Gujarat University (India). (1972)
- M. Suthanthiran, Assistant Professor of Biochemistry (Surgery); Assistant Professor of Medicine; Assistant Professor of Surgery (Biochemistry). Assistant Attending Physician, New York Hospital. M.B.B.S. 1968, University of Madras (India). (1977)
- Albert P. Sutton, Clinical Instructor in Surgery. Senior Assistant Attending Surgeon (Urology), North Shore University Hospital. B.A. 1944 and M.D. 1948, University of Buffalo. (1972)
- Roy C. Swan, Joseph C. Hinsey Professor of Anatomy. A.B. 1941 and M.D. 1947, Cornell University. (1948;
- William J. Sweeney, Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1942, Maryville College; M.D. 1949, Cornell University. (1950; 1961)
- John K. Swinburne, Clinical Instructor in Surgery. B.S. 1962, Queens College; M.D. 1966, State University of New York Upstate Medical Center. (1980)
- Marguerite P. Sykes, Assistant Professor of Medicine. Attending Physician, Clinical Chemotherapy Service, Memorial Hospital. M.D. 1948, New York University. (1952; 1958)
- Hazel H. Szeto, Assistant Professor of Pharmacology. B.S. 1972, Indiana University; M.D. and Ph.D. 1977, Cornell University. (1979)
- Fereidoon S. Tabatabaii, Instructor in Surgery. Assistant Thoracic Surgeon, New York Hospital. M.D. 1965, Tehran University (Iran). (1978)
- John A. Talbott, Professor of Psychiatry. Attending Psychiatrist, New York Hospital. A.B. 1957. Harvard University; M.D. 1961, Columbia University. (1975;
- Lisa Tallal, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. B.A. 1944, University of Texas; M.D. 1955, New York Medical College. (1967: 1973)
- William Temple Talman, Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. B.A. 1966, Virginia Military Institute; M.D. 1970, University of Virginia. (1974: 1977)
- Neil Talon, Instructor in Psychiatry. B.A. 1973, Univer-

- sity of Pennsylvania; M.D. 1976, Columbia University. (1977; 1979)
- Michael H. Tamaroff, Clinical Instructor of Psychology in Psychiatry. B.A. 1963 and M.S. 1967, City University of New York; Ph.D. 1975, Cornell University.
- John S. Tamerin, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1959, Harvard University; M.D. 1963, New York University. (1972)
- Charlotte T. C. Tan, Professor of Pediatrics, Attending Pediatrician, New York Hospital; Attending Pediatrician, Memorial Hospital. M.D. 1947, Hiang Ya Medical College. (1954; 1978)
- Luis Tapia, Assistant Professor of Biochemistry (Surgery); Assistant Professor of Surgery (Biochemistry). Assistant Attending Surgeon, New York Hospital; Assistant Attending Physician, New York Hospital. B.A. 1958, Mejia National College (Ecuador); M.D. 1965, Madrid Medical School (Spain), (1972; 1976)
- Michael L. Tapper, Clinical Assistant Professor of Medicine. Adjunct Physician, Memorial Hospital. A.B. 1965, M.A. 1966 and M.D. 1970, Columbia University. (1973; 1978)
- Suresh S. Tate, Associate Professor of Biochemistry. B.S. 1958 and M.S. 1960, M.S. University (India); Ph.D. 1963, University of London (England). (1967;
- Howard J. Tatum, Clinical Professor of Obstetrics and Gynecology. B.A. 1936, Ph.D. 1941 and M.D. 1943, University of Wisconsin. (1967; 1972)
- Saul Teichberg, Assistant Professor of Pediatrics. Chief, Section of Microscopy, North Shore University Hospital. B.S. 1967, City College of New York; Ph.D. 1972, Columbia University. (1973; 1976)
- Hind S. Teixidor, Associate Professor of Clinical Radiology. Associate Attending Radiologist, New York Hospital. B.A. 1954 and M.D. 1958, American University of Beirut (Lebanon). (1972; 1978)
- Marvin J. Tennenbaum, Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital. B.A. 1967, Brooklyn College; M.D. 1971, Medical College of Virginia. (1979; 1980)
- Jack Terry, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. M.D. 1964, Colorado University. (1977)
- John Paul Teusink, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1964, Hope College; M.D. 1969, University of Michigan. (1979)
- Lewis Thomas, Professor of Medicine and Professor of Pathology. President, Memorial Sloan-Kettering Cancer Center; Attending Physician, Department of Medicine, Attending Pathologist, Memorial Hospital. B.S. 1933, Princeton University; M.D. 1937, Harvard University; M.A. 1969, Yale University. (1973)
- David D. Thompson, Professor of Medicine. Attending Physician and Director, New York Hospital. A.B. 1943 and M.D. 1946, Cornell University. (1947;
- T. Campbell Thompson, Emeritus Clinical Professor of Surgery (Orthopedics). Consultant in Surgery (Orthopedics), New York Hospital. B.A. 1924, Rollins College; M.D. 1928, Johns Hopkins University; D.M.S. 1936, Columbia University. (1951; 1968) Bjorn Thorbjarnarson, Clinical Professor of Surgery.

- Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. (1949; 1978)
- Robert J. Timberger, Associate Professor of Clinical Medicine. Associate Attending Physician, Memorial Hospital. A.B. 1956 and M.D. 1960, Cornell University. (1966; 1979)
- Alphonse E. Timpanelli, Emeritus Clinical Professor of Medicine. Attending Physician, New York Hospital. A.B. 1932, Columbia University; M.D. 1936, Cornell University. (1940; 1975)
- Ida Tiongco, Clinical Instructor in Medicine. Clinical Affiliate, New York Hospital. M.D. 1968, University of the East (Philippines). (1978)
- Michael Tjeuw, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. M.B.B.S. 1971, University of New South Wales (Australia). (1976; 1977)
- Joan Tolchin, Clinical Instructor in Psychiatry, Clinical Affiliate, New York Hospital. A.B. 1964, Vassar College; M.D. 1972, New York University. (1975; 1978)
- Paul G. Tolins, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.A. 1957, Columbia University; M.D. 1961, State University of New York. (1971; 1975)
- H. Randall Tollefsen, Clinical Associate Professor of Surgery. Attending Surgeon, Head and Neck Service, Memorial Hospital. M.D. 1935, University of Nebraska. (1952; 1975)
- Edward Tolstoi, Emeritus Clinical Professor of Medicine. Honorary Staff, New York Hospital, A.B. 1919. Yale University; M.D. 1923, Cornell University. (1927; 1962)
- Frank A. Tomao, Clinical Assistant Professor of Medicine. Adjunct Attending Physician, Solid Tumor Service, Memorial Hospital; Associate Attending Physician, North Shore University Hospital. B.S. 1961, Manhattan College; M.D. 1965, Cornell University. (1966; 1973)
- Alexander Tomasz, Adjunct Professor of Microbiology in Medicine. Diploma, Biology and Chemistry 1953, Eotovas Lorant University, Budapest (Hungary); Ph.D. Biochemistry 1961, Columbia University.
- Marjorie J. Topkins, Clinical Professor of Anesthesiology. Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell University; M.D. 1950, University of Vermont. (1952; 1970)
- Douglas P. Torre, Clinical Professor of Medicine (Dermatology). Attending Physician, New York Hospital; Attending Physician (Dermatology), Memorial Hospital, B.S. 1940 and M.D. 1943, Tulane University. (1947; 1966)
- Anthony J. Tortolani, Assistant Professor of Surgery. Chief, Thoracic and Cardiovascular Surgery, North Shore University Hospital. B.S. 1965, Fordham University; M.D. 1969, George Washington University. (1973: 1978)
- Peter A. Torzilli, Adjunct Assistant Professor of Applied Biomechanics in Surgery (Orthopedics). Assistant Attending Orthopedic Surgeon (Biomechanics), Hospital for Special Surgery. A.A.S. 1965, Nassau Community College; B.E.S. 1967, State University of New York; M.S. 1970 and Ph.D. 1974, Rensselaer Polytechnic Institute. (1976; 1979)
- Attila Toth, Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and

- Gynecologist, New York Hospital, M.D. 1964, Medical University of Budapest (Hungary). (1974; 1977)
- Miklos Toth, Clinical Instructor in Obstetrics. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1965, Semmelwies Medical School (Hungary). (1979; 1980)
- Farida Towayer, Instructor in Anesthesiology. M.B. Ch.B. 1974, Alexandria University (Egypt). (1980)
- Arnold J. Trattler, Clinical Instructor in Surgery, A.B. 1940, Princeton College; M.D. 1943, Long Island College of Medicine. (1977)
- Sylvia G. Traube, Clinical Assistant Professor of Psychiatry, Assistant Attending Psychiatrist, New York Hospital. B.A. 1930, University of Maine; Ed.M. 1942 and M.D. 1950, Boston University. (1960; 1978)
- Eric S. Treiber, Instructor in Medicine, Assistant Attending Physician, New York Hospital. B.A. 1972, Queens College; M.D. 1976, Georgetown University. (1979)
- Paul P. Trotta, Adjunct Assistant Professor of Biochemistry. A.B. 1964, Columbia University; Ph.D. 1968, State University of New York. (1968; 1976)
- Simon Trutt, Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. A.B. 1956, Barnard College; M.D. 1960, New York University. (1977; 1980)
- Mary W. Tsai, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital, M.D. 1949, National Central University (China). (1967; 1979)
- Peter Tsairis, Associate Professor of Clinical Neurology. Associate Attending Neurologist, New York Hospital; Assistant Physician, Memorial Hospital; Assistant Attending Neurologist, Hospital for Special Surgery. B.S. 1960, Trinity College; M.D. 1965, Cornell University. (1971; 1979)
- Anthony Tucci, Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. B.S. 1959, City College of New York; Ph.D. 1966 and M.D. 1975, Albert Einstein College of Medicine. (1976; 1978)
- Kenneth F. Tucker, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1949, Columbia University; M.D. 1953, Cornell University. (1956; 1978)
- Maurice Tulin, Associate Professor of Clinical Medicine. Attending Physician; Physician in Charge, Ambulatory Services, North Shore University Hospital. B.S. 1938, Trinity College; M.D. 1942, Yale University. (1945; 1979)
- Steven J. Tunick, Clinical Instructor in Surgery (Oral). Assistant Attending Oral Surgeon, New York Hospital. B.A. 1969, Rutgers University; D.M.D. 1973, Tufts University. (1977)
- Alan D. Turnbull, Associate Professor of Surgery. Associate Attending Surgeon, Gastric and Mixed Tumor Service, Department of Surgery, Memorial Hospital. B.S. 1957; M.D.C.M. 1961 and M.S. 1965, McGill University (Canada). (1968; 1979)
- Liebert S. Turner, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1955, University of Pennsylvania; M.D. 1959, Chicago Medical School. (1960; 1973)
- Louis B. Turner, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. A.B. 1942 and M.D. 1944, Columbia University. (1971; 1979)

- Arnold I. Turtz, Clinical Associate Professor of Ophthalmology. Attending Ophthalmologist, New York Hospital. M.D. 1948, New York Medical College. (1971; 1972)
- Stephen Tutnauer, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1972, Brooklyn College; M.D. 1975, New York Medical College. (1978; 1980)
- Thomas L. Tuttle, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1957, Colgate University; M.D. 1961, Rochester University. (1965; 1970)
- James R. Tweedy, Assistant Professor of Psychology in Neurology, B.A. 1964, University of Minnesota; Ph.D. 1970, Stanford University. (1980)
- Theodore I. Tyberg, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital, B.S. 1968, City College of New York; M.D. 1975, Rush Medical College. (1976; 1980)
- Dae-Yong Uhm, Visiting Assistant Professor of Physiology. M.D. 1969 and Ph.D. 1978, Seoul National University (Korea). (1979)
- Robert J. Ulberg, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.A. 1952, University of Illinois; M.D.C.M. 1957, Dalhousie University (Canada). (1972; 1978)
- Stanley Ulick, Adjunct Professor of Pediatrics. B.S. 1942, Pennsylvania State University; M.S. 1944, Illinois Institute of Technology; M.D. 1951, New York University. (1974)
- Alice Ullmann, Clinical Associate Professor of Social Work in Medicine; Clinical Associate Professor of Social Work in Public Health. B.A. 1947, Manchester University (England); M.S. 1952, Columbia University. (1964; 1978)
- Herbert J. Urbach, Clinical Assistant Professor of Psychiatry. B.A. 1950 and M.D. 1954, New York University. (1980)
- Jerome A. Urban, Clinical Associate Professor of Surgery. Attending Surgeon, Breast Service, Memorial Hospital. A.B. 1934 and M.D. 1938, Columbia University. (1952; 1968)
- Salvatore J. Vacirca, Professor of Clinical Radiology. B.S. 1948, City College of New York; M.S. 1954 and Ph.D. 1970, New York University. (1978)
- Frederic J. Vagnini, Clinical Assistant Professor of Surgery, Assistant Attending Surgeon (Thoracic), North Shore University Hospital. B.S. 1958, City College of New York; M.D. 1963, St. Louis University. (1973)
- Traer Van Allen, Clinical Instructor in Psychiatry. Clinical Affiliate in Psychiatry, New York Hospital. B.A. 1953 and M.D.C.M. 1956, McGill University (Canada). (1958; 1963)
- Parker Vanamee, Associate Professor of Medicine. Attending Physician and Chief, Clinical Physiology and Renal Service, Memorial Hospital, B.S. 1942, Yale University; M.D. 1945, Cornell University. (1956; 1961)
- Douglas Vander Heide, Clinical Instructor of Psychiatry. Clinical Affiliate, New York Hospital. A.B. 1972, University of California at Berkeley; M.D. 1976, Columbia University. (1977; 1980)
- Thornton A. Vandersall, Assistant Professor of Pediatrics; Associate Professor of Psychiatry. Director, Department of Psychiatry, North Shore University

- Hospital, B.A. 1950, College of Wooster; M.D. 1954, Jefferson Medical College. (1958; 1975)
- Alan Van Poznak, Professor of Anesthesiology; Professor of Pharmacology. Attending Anesthesiologist, New York Hospital. A.B. 1948 and M.D. 1952, Cornell University. (1955; 1974)
- Walter B. Van Vort, Instructor in Psychiatry. Assistant Psychiatrist, New York Hospital. A.B. 1969. Harvard University; M.D. 1974, Case Western Reserve University. (1977; 1978)
- Kusum Vasadeva, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. M.B.B.S. 1967, Maulana Azad Medical College (India), (1971; 1977)
- E. Darracott Vaughan, James Colt Professor of Urology in Surgery. Attending Surgeon-in-Chief (Urology), New York Hospital. B.S. 1961, Washington and Lee University; M.D. 1965 and M.S. 1969, University of Virginia. (1978)
- Damir Velcek, Clinical Instructor in Surgery. M.D. 1968, University of Zagreb (Yugoslavia). (1973; 1980)
- Konstantin P. Velis, Clinical Assistant Professor of Surgery (Orthopedics). Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, American University of Beirut (Lebanon). (1968; 1971)
- Suzanne Veronneau, Clinical Associate Professor of Ophthalmology. Associate Attending Ophthalmologist, New York Hospital; Associate Attending Surgeon (Ophthalmology), Manhattan Eye, Ear, and Throat Hospital, B.A. 1951, B.Sc. 1952 and M.D. 1957, University of Montreal (Canada). (1971; 1977)
- Milton Viederman, Professor of Clinical Psychiatry. Attending Psychiatrist, New York Hospital, B.A. 1951, Columbia University; M.D. 1955, Harvard University. (1960; 1979)
- Vincent J. Vigorita, Assistant Professor of Pathology. B.A. 1972, Williams College; M.D. 1976, New York Medical College. (1979; 1980)
- Bhadrasain Vikram, Instructor in Radiology. Assistant Attending Radiation Therapist, Memorial Hospital. M.B.B.S. University of Delhi (India). (1979)
- Vincent P. Vinciguerra, Associate Professor of Clinical Medicine. Attending Physician, North Shore University Hospital. B.A. 1962, Seton Hall University; M.D. 1966, Georgetown University. (1968; 1979)
- Gustavo Vintas, Clinical Instructor in Psychiatry. Clinical Affiliate, Department of Psychiatry, New York Hospital. M.D. 1973, University of Buenos Aires (Argentina). (1976; 1978)
- John P. Viscardi, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. M.D. 1953, New York Medical College. (1972)
- Ernest B. Visconti, Clinical Instructor in Pediatrics. Clinical Affiliate, New York Hospital, B.S. 1967, Iona College; M.D. 1971, State University of New York Upstate Medical School. (1978)
- Laura Vogel, Instructor in Clinical Psychiatry, Assistant Psychiatrist, New York Hospital. A.B. 1974 and M.D. 1977, Brown University. (1980)
- Bodo R. Vollhardt, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. M.D. 1972, Freie Universität, Berlin (Germany). (1979; 1980)
- Bruce T. Volpe, Assistant Professor of Neurology.

- Assistant Attending Neurologist, New York Hospital. B.S. 1969 and M.D. 1973, Yale University. (1976;
- Theresa Marks Voorhies, Instructor in Clinical Neurology. B.A. 1969, University of Arkansas; M.D. 1973, Tulane University. (1979; 1980)
- Louis J. Vorhaus, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard University; M.D. 1946, Columbia University. (1955; 1965)
- Frederick Vosburgh, Assistant Professor of Physiologic Biomechanics in Surgery (Orthopedics), B.A. 1972 and Ph.D. 1978, Duke University. (1980)
- Lee F. Vosburgh, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, North Shore University Hospital. B.S. 1944, Rutgers University; M.D. 1948, Union University. (1971)
- Dragan Vuckovic, Clinical Assistant Professor of Anesthesiology. Associate Attending Anesthesiologist, Memorial Hospital. M.D., Belgrade University (Yugoslavia) (1969; 1973)
- Davor Vugrin, Assistant Professor of Medicine, Assistant Attending Physician, Solid Tumor Service, Memorial Hospital. M.D. 1968, University of Zagreb (Yugoslavia). (1976; 1978)
- Stephen J. Wachtel, Associate Professor of Immunology in Pediatrics. A.B. 1959, Kenyon College; Ph.D. 1967, University of Pennsylvania. (1977)
- Preston A. Wade, Emeritus Clinical Professor of Surgery, Honorary Staff in Surgery, New York Hospital. A.B. 1922 and M.D. 1925, Cornell University. (1932; 1968)
- Gary I. Wadler, Clinical Associate Professor of Medicine. Attending Physician, New York Hospital; Attending Physician, North Shore University Hospital. B.S. 1960, Brooklyn College; M.D. 1964, Cornell University. (1965; 1976)
- William P. Wagner, Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital, A.B. 1946, Columbia College: M.D. 1949, New York Medical College. (1973)
- Michael Wainston, Clinical Instructor in Psychiatry. B.S. 1950, Queens College; M.D. 1955, University of Berne (Switzerland). (1977)
- Robert S. Waldbaum, Clinical Associate Professor of Surgery, Clinical Affiliate in Surgery (Urology), New York Hospital; Attending Urologist, North Shore University Hospital. A.B. 1958 and M.D. 1962, Columbia University. (1966; 1977)
- Ruth Waldbaum, Clinical Assistant Professor of Pediatrics. Junior Assistant Attending Pediatrician, North Shore University Hospital. B.A. 1961, Brooklyn College: M.D. 1965, George Washington University. (1974)
- William D. Walden, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.A. 1951, University of California; M.D. 1959, New York University. (1962; 1973)
- Sherwood Waldron, Jr., Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, A.B. 1958, Harvard University; M.D. 1962, Yale University. (1979)
- James H. Wall, Emeritus Clinical Professor of Psychiatry. M.D. 1927, Jefferson Medical College. (1940; 1965)

- Max Lee Wallace, Jr., Instructor in Radiology. B.S. 1970, Davidson College; M.D. 1974, University of North Carolina. (1979; 1980)
- John F. Waller, Clinical Instructor in Surgery. B.A. 1967, New York University; M.D. 1971, New York Medical College. (1977; 1978)
- Lila A. Wallis, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital, A.B. 1947, Barnard College: M.D. 1951. Columbia University. (1952; 1976)
- Mary Beth Walsh, Assistant Professor of Medicine. B.A. 1969, Wellesley College; M.D. 1974, Dartmouth University. (1979)
- George E. Wantz, Clinical Associate Professor of Surgery. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. (1950; 1961)
- Raul Wapnir, Professor of Biochemistry in Pediatrics. Staff, North Shore University Hospital. M.S. 1953 and Ph.D. 1954, University of Buenos Aires (Argentina); M.P.H. 1970, Johns Hopkins University. (1973; 1980)
- Gloria M. Warner, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Barnard College; M.D. 1959, New York University. (1976; 1978)
- Raymond P. Warrell, Jr., Instructor in Medicine. B.S. 1971, Emory University; M.D. 1975, Medical College of Georgia. (1978; 1980)
- Russell F. Warren, Assistant Professor of Clinical Surgery (Orthopedics). Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Surgeon (Orthopedics), Hospital for Special Surgery, A.B. 1962, Columbia University; M.D. 1966, Upstate Medical School. (1970; 1979)
- Gail Wasserman, Clinical Instructor of Psychology in Psychiatry. B.A. 1967, University of Pennsylvania; M.A. 1969, University of Illinois; Ph.D. 1977, City University of New York. (1977; 1980)
- Carolyn W. Watson, Associate Clinical Professor of Pathology. Assistant Attending Pathologist, New York Hospital, B.A. 1945, Hollins College; M.D. 1949. University of Maryland. (1965; 1979)
- Robert F. Watson, Emeritus Clinical Professor of Medicine. Honorary Staff, New York Hospital. M.D. 1934, University of Virginia. (1936; 1975)
- Robin C. Watson, Professor of Radiology. Attending Radiologist, New York Hospital. Attending Roentgenologist; Chairman, Department of Diagnostic Radiology, Memorial Hospital, M.B.B.S. 1955, University of London (England). (1962; 1977)
- Jack S. Waxler, Clinical Instructor in Surgery. B.S. 1963, City College of New York; M.D. 1967, State University of New York. (1979; 1976)
- David H. Weber, Instructor in Psychiatry. B.A. 1972, Columbia University; M.D. 1976, New York University. (1977; 1979)
- John C. Weber, Associate Professor of Anatomy. B.A. 1961, Colgate University; D.D.S. 1965, Columbia University. (1966; 1975)
- Alan Wecksell, Instructor in Radiology. Assistant Attending Radiologist, North Shore University Hospital. B.A. 1961, Upsala College; M.D. 1965, New York Medical College. (1972)
- Mark D. Weibman, Clinical Instructor in Anesthesiology. B.S. 1971 and M.D. 1975, State University of New York. (1980)
- Martin J. Weich, Clinical Assistant Professor of Psy-

- chiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1954, Rutgers University; M.D. 1958, New York Medical College. (1976)
- Clinton G. Weiman, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1949, Princeton University; M.D. 1949, Cornell University. (1970; 1976)
- Stanley Weindorf, Clinical Instructor in Pediatrics. B.S. 1971, Bucknell; M.D. 1977, University of Zurich (Switzerland). (1979)
- Aaron D. Weiner, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1951, Harvard University. (1970; 1977)
- Alan Weiner, Assistant Professor of Psychology in Psychiatry. B.S. 1966, City College of New York; M.S. and Ph.D. 1970, Syracuse University. (1979)
- Judith Weingram, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1959, Barnard College; M.D. 1963, Albert Einstein College of Medicine. (1964: 1973)
- Alan M. Weinstein, Instructor in Physiology. A.B. 1971, Princeton University; M.D. 1975, Harvard University. (1980)
- Benedict X. Weinstein, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1932, New York University; M.D. 1936, Tulane University. (1972)
- David B. Weinstein, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1963, Yale University; M.D. 1969, Chicago Medical School. (1976; 1977)
- Eugene E. Weise, Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. Associate Attending Surgeon, Manhattan Eye, Ear, and Throat Hospital. B.A. 1961, Franklin and Marshall College; M.D. 1965, New York University. (1976; 1978)
- Esther Weisfogel, Clinical Instructor in Obstetrics and Gynecology, Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. B.A. 1946, Hunter College; M.D. 1950, New York University. (1971)
- Wayne M. Weisner, Clinical Assistant Professor of Psychiatry. Attending Psychiatrist, North Shore University Hospital. M.D. 1948, New York Medical College. (1971; 1977)
- Howard S. Weiss, Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1952, Wagner College; M.D. 1956, New York University. (1971; 1975)
- Jonathan H. Weiss, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1957, Brooklyn College; Ph.D. 1961, University of Rochester. (1973;
- Jules H. Weiss, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.A. 1954, City College of New York; M.D. 1959, University of Geneva (Switzerland). (1974; 1976)
- Jutta V. Weiss, Clinical Instructor in Psychology in Psychiatry. B.A. 1963, Colorado Women's College; M.A. 1965, Wayne State University; Ph.D. 1969, University of Denver. (1975)

- Norman Weiss, Adjunct Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1957, Union College; M.D. 1961, New York Medical College. (1977)
- William Weiss, Assistant Professor of Psychiatry. B.S. 1966, City College of New York; M.D. 1970, New York University. (1979)
- Daniel Weitzner, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1949, Fordham University; M.D. 1957, University of Leiden (The Netherlands). (1976)
- Babette B. Weksler, Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1958, Swarthmore College; M.D. 1963, Columbia University. (1968; 1975)
- Marc E. Weksler, Irving Sherwood Wright Professor of Geriatrics; Professor of Medicine. Attending Physician, Department of Medicine, New York Hospital; Assistant Attending Physician, Clinical Physiology and Renal Service, Memorial Hospital. B.A. 1958, Swarthmore College; M.D. 1962, Columbia University. (1968: 1978)
- Daniel Wellner, Associate Professor of Biochemistry. A.B. 1956, Harvard University; Ph.D. 1961, Tufts University. (1967; 1969)
- Aaron O. Wells, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital, B.S. 1943, Virginia Union University; M.D. 1946, Howard University. (1953; 1971)
- Andrew Wendling, Clinical Assistant Professor of Ophthalmology. Director, Microsurgical Clinic, Manhattan Eye, Ear, and Throat Hospital; Assistant Attending Ophthalmologist, New York Hospital. B.S. 1954 and M.S. 1955, Massachusetts Institute of Technology; M.D. 1961, University of Maryland. (1977)
- Virginia Werden, Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1948, University of Pennsylvania. (1955; 1972)
- J. Marvin Wertheim, Clinical Associate Professor of Medicine. Associate Attending Physician, North Shore University Hospital. M.B. 1950 and M.D. 1951, Chicago Medical School. (1971; 1979)
- Ruth K. Westheimer, Adjunct Associate Professor of Psychology in Psychiatry. Ed.D. 1970, Teachers College, Columbia University. (1978)
- Joseph P. Whalen, Professor of Radiology (Chairman). Radiologist-in-Chief, New York Hospital. B.A. 1955, Fordham University; M.D. 1959, State University of New York. (1968; 1976)
- Kathryn A. Whelan, Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1962, C. W. Post College; M.D. 1966, New Jersey College of Medicine. (1970; 1976)
- A. Burton White, Clinical Instructor in Surgery. Senior Assistant Attending Surgeon (Orthopedics), North Shore University Hospital. A.B. 1954, Cornell University; M.D. 1949, Hahnemann Medical College. (1974)
- Horace W. Whiteley, Clinical Assistant Professor of Surgery. Associate Attending Surgeon, Rectal and Colon Service, Memorial Hospital. A.B. 1951, University of Pennsylvania; M.D. 1955, State University of New York. (1962; 1971)

- Wayne G. Whitmore, Instructor in Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. A.B. 1974 and M.D. 1977, Dartmouth University. (1978; 1980)
- Willet F. Whitmore, Professor of Surgery (Urology). Attending Surgeon (Urology), New York Hospital; Attending Surgeon; Chief, Urology Service, Memorial Hospital. B.S. 1938, Rutgers University; M.D. 1942, Cornell University. (1943; 1972)
- John C. Whitsell II, Clinical Professor of Surgery. Attending Surgeon, New York Hospital. B.A. 1950, Grinnell College; M.D. 1954, Washington University. (1955; 1975)
- Michael E. Wiebe, Assistant Professor of Microbiology. B.S. 1965, Sterling College; Ph.D. 1971, University of Kansas. (1973)
- Robert E. Wieche, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, Miami University; M.D. 1952, Cornell University. (1956; 1969)
- Melvin L. Wiedman, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.S. 1954 and M.D. 1958, University of Vermont. (1971; 1973)
- Archibald E. Wightman, Clinical Instructor in Anesthesiology. Associate Attending Anesthesiologist, Memorial Hospital. M.A.Ch.B. 1958, University of Edinburgh (Scotland). (1973)
- Barry M. Wilkes, Assistant Professor of Medicine. A.B. 1970, University College; M.D. 1974, Cornell University. (1980)
- Philip Willensky, Clinical Instructor in Medicine. B.A. 1950, Tulane University; M.D. 1957, University of Amsterdam (The Netherlands). (1980)
- Hibbard E. Williams, Professor of Medicine (Chairman). Physician-in-Chief, New York Hospital. A.B. 1954 and M.D. 1958, Cornell University. (1978)
- John Francis Williams, Visiting Professor of Biochemistry. A.S.T.C. 1950, Sydney Technical College (Australia); M.S. 1960 and Ph.D. 1966, University of New South Wales (Australia). (1978)
- John J. Williams, Assistant Professor of Clinical Surgery. Attending Surgeon (Urology), New York Hospital. B.S. 1962, St. Peter's College; M.D. 1966, Georgetown University. (1970; 1980)
- John R. Williams, Clinical Professor of Otorhinolaryngology. Attending Otorhinolaryngologist, New York Hospital. A.B. 1945, Columbia University; M.D. 1949, New York University. (1954; 1975)
- Daniel Wilner, Visiting Clinical Professor of Radiology. B.S. 1933, Villanova University; M.D. 1937, Jefferson Medical College. (1978)
- Barbara C. Wilson, Clinical Assistant Professor of Neuropsychology. Pediatric Neuropsychologist, North Shore University Hospital. B.A. 1948, Brooklyn College; Ph.D. 1964, New York University. (1972; 1975)
- Peter G. Wilson, Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1953 and M.D. 1957, Columbia University. (1959; 1979)
- Philip D. Wilson, Professor of Surgery (Orthopedics).
   Attending Surgeon (Orthopedics), New York Hospital;
   Surgeon-in-Chief, Hospital for Special Surgery.
   M.D. 1944, Columbia University. (1951; 1972)
   Emmett Wilson, Jr., Clinical Assistant Professor of

- Psychiatry. B.A. 1954, Oklahoma College; M.D. 1959, New York University; M.A. and Ph.D. 1966, Harvard University. (1971; 1979)
- Sidney J. Winawer, Professor of Medicine. Attending Physician, Gastroenterology Service, Memorial Hospital. B.A. 1952, New York University; M.D. 1956, State University of New York. (1966; 1980)
- Patricia H. Winchester, Associate Professor of Radiology; Associate Professor of Radiology in Pediatrics. Associate Attending Radiologist in Pediatrics; Assistant Attending Pediatrician, New York Hospital; Associate Attending Roentgenologist; Associate Attending Pediatrician, Radiology, Memorial Hospital. B.S. 1955 and M.D. 1959, Duke University. (1970; 1980)
- Robert J. Winchester, Adjunct Associate Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital; Assistant Attending to Outpatients, Hospital for Special Surgery. M.D. 1963, Cornell University. (1964; 1977)
- Erich E. Windhager, Maxwell M. Upson Professor and Chairman of Physiology. M.D. 1954, University of Vienna (Austria). (1958; 1973)
- Muriel C. Winestine, Clinical Assistant Professor of Psychology in Psychiatry. B.A. 1942, Brooklyn College; M.S. 1943, Columbia University; Ph.D. 1964, New York University. (1973; 1976)
- Charles Winkelstein, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, Cornell University; M.D. 1951, New York University. (1975; 1980)
- A. Lee Winston, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1949, Syracuse University; M.D. 1952, State University of New York. (1957; 1970)
- Jacqueline M. S. Winterkorn, Assistant Professor of Anatomy. A.B. 1967, Barnard College; Ph.D. 1974, Cornell University. (1968; 1976)
- Arthur J. Wise, Clinical Instructor in Surgery. M.D. 1965, Hahnemann Medical College. (1974; 1980)
- Mildred H. Witkin, Clinical Assistant Professor of Psychology in Psychiatry. B.A. 1940, Hunter College; M.A. 1968, Columbia University; Ph.D. 1973, New York University. (1975; 1977)
- Robert E. Wittes, Associate Professor of Clinical Medicine. Associate Attending Physician, Memorial Hospital. A.B. 1964 and M.D. 1968, Harvard University. (1972; 1980)
- Carl F. W. Wolf, Associate Clinical Professor of Pathology. Associate Attending Pathologist, New York Hospital. B.S. 1953 and M.S. 1954, Massachusetts Institute of Technology; M.D. 1968, Hahnemann Medical College. (1969; 1979)
- David J. Wolf, Clinical Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.A. 1969, Hunter College; M.D. 1973, State University of New York. (1974; 1979)
- Harvey I. Wolfe, Clinical Assistant Professor of Pediatrics. Active Staff, North Shore University Hospital. A.B. 1952, University of Pennsylvania; M.D. 1956, State University of New York. (1972)
- Edward Wolff, Clinical Instructor in Medicine. B.S. 1962, Muhlenberg College; M.D. 1966, Georgetown University. (1980)
- Michael J. Wolk, Clinical Associate Professor of Medicine. Associate Attending Physician, New York

- Hospital. B.A. 1960, Colgate University; M.D. 1964, Columbia University. (1969; 1979)
- Brian Wong, Assistant Professor of Medicine. B.A. 1970, Harvard University; M.D. 1974, State University of New York. (1978; 1980)
- James Marshall Woodruff, Associate Professor of Pathology. Associate Attending Pathologist, Memorial Hospital. B.A. 1958, University of Massachusetts; M.D. 1963, Temple University. (1965; 1978)
- Kenneth R. Woods, Associate Professor of Biochemistry. Chairman, Research Committee, New York Blood Center. B.A. 1948, Arizona State College; Ph.D. 1955, University of Minnesota. (1956; 1968)
- Irving S. Wright, Emeritus Clinical Professor of Medicine. Attending Physician, New York Hospital. A.B. 1923 and M.D. 1926, Cornell University. (1946; 1967)
- Timothy Wright, Assistant Professor of Applied Biomechanics in Surgery (Orthopedics). Assistant, Applied Biomechanics in Orthopedic Surgery, Hospital for Special Surgery. B.S. 1971, Lehigh University; M.S. 1972 and Ph.D. 1976, Stanford University. (1978)
- Alan Yagoda, Associate Professor of Clinical Medicine. Assistant Attending Physician, Solid Tumor Service, Memorial Hospital. B.A. 1956 and M.D. 1963, University of Vermont. (1969; 1979)
- Valery W. Yandow, Instructor in Psychiatry. Psychiatrist (Chief Resident), New York Hospital. B.A. 1951 and M.D. 1956, University of Vermont. (1979)
- Lawrence A. Yanuzzi, Clinical Associate Professor of Ophthalmology. B.A. 1959, Harvard University; M.D. 1964, Boston University. (1980)
- Fun-Sun Yao, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. M.B. 1968, National Taiwan University (Republic of China). (1973; 1977)
- Michael F. Yarborough, Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. B.S. 1968, Davidson College; M.D. 1972, University of North Carolina. (1977)
- Samuel D. J. Yeh, Associate Professor of Clinical Medicine. Associate Attending Physician, Memorial Hospital. M.D. 1948, Medical School National Defense Medical Center, Shanghai (People's Republic of China); Sc.D. 1960, Johns Hopkins University. (1965; 1979)
- Stanley S. Yormak, Clinical Instructor in Medicine. Clinical Affiliate in Medicine, New York Hospital. B.A. 1954, City College of New York; M.D. 1959, University of Rochester. (1964; 1966)
- Charles W. Young, Associate Professor of Medicine. Associate Attending Physician, Hematology-Lymphoma Service, Memorial Hospital. A.B. 1952, Columbia University; M.D. 1956, Harvard University. (1966: 1976)
- Dean F. Young, Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. B.A. 1962, Kenyon College; M.D. 1966, Harvard University. (1970; 1976)
- Nancy Lizotte Young, Assistant Professor of Biochemistry in Medicine. B.S. 1959, Antioch College; Ph.D. 1974, Purdue University. (1977)
- Robert C. Young, Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1969, Williams College; M.D. 1974, Cornell University. (1979)
- David A. Zackson, Clinical Assistant Professor of Med-

- icine. Clinical Affiliate in Medicine, New York Hospital. B.S. 1953, Queens College; M.D. 1957, New York University. (1972; 1975)
- Isabel Zackson, Clinical Instructor in Pediatrics. B.S. 1944, University of Michigan; M.D. 1949, Hahnemann Medical College. (1979)
- Mordechai Zadik, Clinical Instructor in Pediatrics. M.D. 1969, Sorok Medical Center (Israel). (1979)
- Charles G. Zaroulis, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.A. 1961 and M.D. 1965, University of Virginia. (1977)
- Michael J. Zema, Clinical Instructor in Medicine. Provisional Staff, North Shore University Hospital. B.S. 1970, Fordham University; M.D. 1974, Cornell University. (1979)
- David Zigelman, Clinical Instructor in Pediatrics.
  Assistant Attending Pediatrician, New York Hospital.
  B.A. 1969, Yeshiva University; M.D. 1973, Cornell
  University: (1974; 1976)
- Alan T. Zimbard, Clinical Instructor in Anesthesiology. Assistant Attending Anesthesiologist, Manhattan Eye, Ear, and Throat Hospital. B.S. 1969, City College of New York, M.D. 1974, College of Medicine and Dentistry of New Jersey. (1979)
- Muriel Zimmerman, Clinical Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, Department of Psychiatry. B.A. 1941, Brooklyn College; Ph.D. 1944, New School for Social Research. (1973; 1978)
- Stanley S. Zipser, Clinical Associate Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia University; M.D. 1936, Long Island College of Medicine. (1940; 1978)
- Heddy Zirin, Clinical Instructor in Pediatrics. B.A. 1969, Smith College; M.D. 1975, Georgetown University. (1979)
- Joseph J. Zito, Clinical Instructor in Surgery (Dentistry). Clinical Associate Oral Surgeon, New York Hospital. D.D.S. 1947, Temple University. (1977)
- Judah Zizmor, Clinical Associate Professor of Radiology. Attending Radiologist, New York Hospital; Director, Diagnostic Radiology, Manhattan Eye, Ear, and Throat Hospital. B.A. 1932 and M.D. 1934, University of Wisconsin. (1972)
- Philip H. Zweifach, Clinical Associate Professor of Ophthalmology in Neurology; Clinical Associate Professor of Ophthalmology. Associate Attending Neurologist; Associate Attending Ophthalmologist, New York Hospital. B.S. 1957, College of the City of New York; M.D. 1961, Cornell University. (1963;

# Internship Appointments

#### Class of 1980

- Linda Susan Altman, Pediatrics; Yale University-New Haven Medical Center, New Haven, Connecticut
- Alpha Jerome Anders, Medicine; Presbyterian Medical Center, Denver, Colorado
- Paul Stephen Baecher, Family Practice; Saint Margaret Memorial Hospital, Philadelphia, Pennsylvania
- Anthony John Barletta, Pathology; Stanford University Hospital, Stanford, California

James Stephen Bauman, Obstetrics and Gynecology; Boston Hospital for Women, Boston, Massachusetts Robert Natham Belkin, Medicine; New York Hospital,

New York, New York

Ralph James Blair, Medicine; Beth Israel Hospital, Boston, Massachusetts

James Colgrove Blankenship, Medicine; University of Michigan Affiliated Hospital, Ann Arbor, Michigan

Patricia Ellen Boiko, Family Practice; Medical Center Hospitals, Charleston, South Carolina

Michael William Born, Surgery; Saint Luke's Hospital Center, New York, New York

Scott Evan Brodie, Medicine; New York Hospital, New York, New York

Gary C. Butts, Pediatrics; Mount Sinai Hospital, New York, New York

Andrew Bruce Campbell, Pediatrics; Children's Hospital, Oakland, California

Robert Francis Carter, Jr., Surgery; Roosevelt Hospital, New York, New York

Yishing Brian Changlai, Medicine; State University of New York Upstate Medical Center, Syracuse, New York

Ellen Cohen, Medicine; Saint Vincent's Hospital, New York, New York

Charles Nelson Cornell, Surgery; Presbyterian Hospital, New York, New York

Lawrence Patrick Costello, Psychiatry; New York Hospital, Westchester Division, White Plains, New York Robert Leopold Danner, Medicine; New York Hospital, New York, New York

Harry Arthur Davis, Family Practice; Memorial Medical Center, Corpus Christi, Texas

Bette May DeMartini, Medicine; Overlook Hospital, Summit, New Jersey

Ethan Dmitrovsky, Medicine; New York Hospital, New York, New York

David Wayne Dodson, Medicine; Pennsylvania Hospital, Philadelphia, Pennsylvania

Jane Marie Doyle, Medicine; Saint Luke's Hospital Center, New York, New York

Mark Drucker, Medicine; Saint Mary's Hospital, San Francisco, California

Joseph Eichenbaum, Medicine; Long Island Jewish

Hospital, New Hyde Park, New York David Keith Emmel, Medicine; New York Hospital,

New York, New York Barbara Lynn Engelson, Medicine; North Shore Uni-

versity Hospital, Manhasset, New York Steven Allen Fiamengo, Surgery; University of Cali-

fornia Hospitals, Los Angeles, California John Stephen Fink, Psychiatry; Massachusetts General

Hospital, Boston, Massachusetts Gale Iles Genvert, Family Practice; Bayfront Medical

Center, Saint Petersburg, Florida Lambros George Geotes, Pediatrics; New York Hospi-

tal, New York, New York

Laurie Ann Gordon, Medicine; New York Hospital, New York, New York

Alice Bendix Gottlieb, Medicine; New York Hospital, New York, New York

Iris Ann Granek, Medicine; Saint Vincent's Hospital, New York, New York

John Nezzen Green, Medicine; C.M.D.N.J.-New Jersey Medical School, Newark, New Jersey

Damian David Gress, Surgery; Montefiore Hospital Center, Bronx, New York

Carolyn Heyward Grosvenor, Medicine; Albany Medical Center Hospital, Albany, New York

Mark Gudesblatt, Neurology; Mount Sinai Hospital, New York, New York

Jennifer Cornelia Hill Gunn, Psychiatry; New York Hospital, New York, New York

Walter Thomas Gutowski III, Surgery; Yale University-New Haven Medical Center, New Haven, Connecti-

David Brian Hackney, Radiology; University of California, San Diego Affiliate, San Diego, California

Cornelius Hayes Halvey, Medicine; Roosevelt Hospital, New York, New York

David Elwood Hansen, Medicine; University of Chicago Clinics, Chicago, Illinois

Mark Andrew Heitner, Medicine; University of Colorado Affiliated Hospitals, Denver, Colorado

Steven Herskovitz, Medicine; Montefiore Hospital Center, Bronx, New York

Martin A. Hirsch, Medicine; New York Hospital, New York, New York

Betsy Anne Holland, Radiology; University of California Hospitals, H. C. Moffit, San Francisco, California

John Neal Hurley, Surgery; University of Minnesota Hospital, Minneapolis, Minnesota

Richard Stephen Infante, Medicine; Martin Luther King Hospital, Los Angeles, California

Edward Kevin James, Pediatrics; Bronx Municipal Hospital Center, Bronx, New York

Neil Louis Julie, Medicine; University of California Hospitals, H. C. Moffitt, San Francisco, California Ronald Nathaniel Kaleya, Surgery; Montefiore Hospital Center, Bronx, New York

Susan Aree Kambhu, Medicine; Case Western Reserve University, University Hospital, Cleveland, Ohio Frederick David Kaplan, Medicine; Miriam Hospital,

Providence, Rhode Island Steven Toshihiro Kariya, Medicine; Johns Hopkins

Hospital, Baltimore, Maryland Kevin Vincent Kelly, Psychiatry; New York Hospital,

New York, New York

Martin Elliot Kessler, Surgery; New York Hospital, New York, New York

Kathryn Elizabeth Kindwall, Medicine; Hospital of the University of Pennsylvania, Philadelphia, Pennsyl-

Eric Martin Kitain, Surgery; Yale University-New Haven Medical Center, New Haven, Connecticut

Rosemary Ellen Meisner Klenk, Pediatrics; Presbyterian Hospital, New York, New York

Jeffrey Kocher, Medicine; New York Hospital, New York, New York

Bruce Richard Korf, Pediatrics; Children's Center, Boston, Massachusetts

James Stephen Krinsley, Medicine; New York University, Veteran's Administration, New York, New York

Spencer H. Kubo, Medicine; New York Hospital, New York, New York

Mark Bruce Landon, Obstetrics and Gynecology; Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

Theodore Steven Lawrence, Medicine; Stanford University Hospital, Stanford, California

Donald Alan Leichter, Pediatrics; Children's Hospital, Washington, D.C.

- Enid Lynn Leikin, Surgery; Mount Sinai Hospital, New York, New York
- Vishwanath Rao Lingappa, Medicine; University of California Hospitals, H. C. Moffit, San Francisco, California
- Noreen Helen Linn, Medicine; State University of New York-Stony Brook Affiliated Hospital, Stony Brook, New York
- Robert Howard Lustig, Pediatrics; Saint Louis Children's Hospital, Saint Louis, Missouri
- Hillel Y. Marans, Surgery; Saint Vincent's Hospital, New York, New York
- Irma Marie Matos, Pediatrics; New York Hospital, New York, New York
- Ellen Maude Mellow, Medicine; Case Western Reserve University, University Hospital, Cleveland, Ohio
- Kenneth Edmund Merhige, Medicine; Maimonides Medical Center, Brooklyn, New York
- Robert John Mishkin, Medicine; Washington Hospital Center, Washington, D.C.
- Robert Paul Naparstek, Medicine; Saint Francis Hospital, Hartford, Connecticut
- Roger Steven Nathaniel, Medicine; Lenox Hill Hospital, New York, New York
- Gregory Jay Naus, Pathology; New York Hospital, New York, New York
- Gary Jack Noel, Pediatrics; Lenox Hill Hospital, New York, New York
- Peter Michael Okin, Medicine; New York Hospital, New York, New York
- Peter James Palasota III, Obstetrics and Gynecology; Saint Luke's Hospital Center, New York, New York David Martin Panicek, Medicine; Lenox Hill Hospital, New York, New York
- Rochelle Leeb Peck, Medicine; Saint Luke's Hospital Center, New York, New York
- Peri Petras, Obstetrics and Gyneclogy; North Shore University Hospital, Manhasset, New York
- Barbara Anne Phillips, Medicine; New York Hospital, New York, New York
- Stuart Bruce Pink, Medicine; Washington Hospital Center, Washington, D.C.
- Arthur Hirsh Pomerantz, Surgery; Beth Israel Hospital, Boston, Massachusetts
- Alan David Proia, Pathology; Duke University Medical Center, Durham, North Carolina
- Bradley Arden Radwaner, Medicine; Lenox Hill Hospital, New York, New York
- Rupa Cook Redding, Medicine; North Carolina Memorial Hospital, Chapel Hill, North Carolina
- Carl Wayne Rettenmier, Research; National Institutes of Health, Bethesda, Maryland
- Michelle Antonia Rivera, Pediatrics; Children's Hospital, Washington, D.C.
- Marc Rubin, Medicine; Johns Hopkins University Hospital, Baltimore, Maryland
- Earl Victor Sandor, Medicine; Grady Memorial Hospital, Atlanta, Georgia
- Andrew Gary Schechter, Medicine; Georgetown University; Washington, D.C.
- Karen Lynne Schneider, Surgery; Montefiore Hospital, Bronx, New York
- Alexander Shadid, Jr., Surgery; University of Texas Affiliated Hospitals, Houston, Texas
- Mary Montgomery Sickles, Psychiatry; New York Hospital, New York, New York

- Shonni Joy Silverberg, Medicine; New York Hospital, New York, New York
- Steven Richard Silverstein, Medicine; Beth Israel Hospital, Boston, Massachusetts
- Kathy Anne Smachlo, Medicine; Jewish Hospital, Saint Louis, Missouri
- Mary Ann Regina Snowden, Obstetrics and Gynecology; Vanderbilt University Affiliated Hospital, Nashville, Tennessee
- John James Somerville, Medicine; Nassau County Meadowbrook Hospital, East Meadow, New York
- Linda Ann Specht, Pediatrics, New England Center Hospital, Boston, Massachusetts
- Nadine M. Trainer, Pediatrics, Cincinnati General Hospital, Cincinnati, Ohio
- Richard Saul Diaz Tushman, Urology; Medical College of Virginia, Richmond, Virginia
- Jonathan David Victor, Medicine; New York Hospital, New York, New York
- Charles Jay Waisbren, Medicine; Montefiore Hospital Center, Bronx, New York
- Gary Alan Weiser, Medicine; University of Illinois Affiliated Hospital, Chicago, Illinois
- Janet M. Werkmeister, Pediatrics; New York Hospital, New York, New York
- Karl Frederick Weyrauch, Family Practice; Medical Center Hospitals, Charleston, South Carolina
- Mark Zombek, Medicine; Brookdale Hospital Center, Brooklyn, New York

# Students 1980-81

## **Fourth-Year Class**

- Kimberley Stratemeyer Adams, A.B. 1975, Radcliffe
- Edward James Alexander, B.A. 1976, Amherst College Stanley Waite Ashley, B.A. 1976, Oberlin College Kofi Atta-Mensah, B.A. 1977, Herbert H. Lehman College
- Natalie Blagowidow, A.B. 1977, Cornell University Robert Martin Bogin, B.A. 1977, University of Pennsylvania
- Philip John Bossart, B.A. 1977, Northwestern University
- Francis Xavier Brickfield, Jr., B.S. 1977, Georgetown University
- Roberta Brockman, B.S. 1977, Yale University Jay Clark Buckey, B.S.E.E. 1977, Cornell University Anthony J. Cannon, B.S. 1977, Clark University Paul Bradley Chapman, A.B. 1977, Cornell University Bruce David Charash, A.B. 1977, Cornell University Leona Liyuan Chen, B.S. 1977, Washington University
- Marie T. Chiao, B.S. 1966, Nazareth College, M.S., 1968; Ph.D. 1971, University of Illinois Charles Henry Chodroff, B.A. 1977, Haverford College James Lincoln Clarke, A.B. 1977, Princeton University Marcia Sue Clever, B.S. 1977, University of Pittsburgh David Arthur Cohen, A.B. 1977, Harvard University Howard Alan Cohen, B.S. 1977, Columbia University Robert B. Cooper, B.S. 1977, Fordham University
- Joan Alice Culpepper, B.S. 1977, Smith College John Anthony Day, Jr., A.B. 1974, Harvard University Michael Jose Delrio, B.A., 1977, New York University John Dombrowsky, B.S. 1977, Williams College

John Edward Drace, A.B. 1977, Yale University Lauraine Jean Effinger, B.A. 1974, Bryn Mawr College Ann Louise Engelland, B.S. 1976, Yale University Steven Joseph Engrassia, B.S. 1977, St. John's University

Pamela Sue Felder, B.A. 1971, Sarah Lawrence College

Tim Alexander Fischell, A.B. 1978, Cornell University Raymond Fong, A.B. 1977, Harvard University Robert Joel Friedlander, Jr., A.B. 1977, Yale University Harvey Jay Friedman, B.S. 1977, Union College Ricki Friedman, B.A. 1976, Wellesley College Rosemarie Reenberg Fusco, B.S. 1968, Hunter Col-

lege; Ph.D. 1975, Columbia University Harold Iles Genvert, A.B. 1975, Colgate University Jamshid Baktiar Ghahremani Ghajar, B.A. 1973 and M.A. 1975, University of California at Los Angeles

Susan Diane Goodman, A.B. 1972, Barnard College Michael Louis Gordon, A.B. 1977, Columbia University James Alan Goulet, B.A. 1977, Middlebury College Richard James Gray, B.A. 1976, Syracuse University Scott Henry Greenstein, A.B. 1977, University of Pennsylvania

Peter Clement Greif, B.A. 1975, Haverford College Saadia Janette Griffith, B.A. 1977, University of Bridgeport

Michael Bernard Grosso, B.S. 1977, Georgetown University

Elizabeth Emilee Guenthner, B.A. 1974, St. Olaf College Brian C. Halpern, B.A. 1977, Middlebury College Alan Laurence Hillman, A.B. 1978, Cornell University William Harold Hines, B.A. 1977, Amherst College Robert Geary Holman, B.A. 1978, Cornell University Gretchen Haupt Jacobson, B.S. 1977, Cornell University

Penny Arline Jaffe, B.A. 1977, Smith College Mae Carol Jemison, B.S. 1977, Stanford University John Moss Joelson, B.A. 1977, Hamilton College Terrence Bertrand Jones, B.S. 1976, St. John's University

Virginia Linda Kan, B.A. 1977, Barnard College Nachum M. Katlowitz, B.S. 1977, Brooklyn College Barbara Jo Koblenz, A.B. 1977, Barnard College Michael Howard Kroll, B.S. 1976, Harpur College Audrey Rose Kupchan, B.S. 1976, Union College Melissa Ellen Larsen, B.A. 1977, Smith College Edward Lee, B.E. 1973, City University of New York Peter Michael Lejacq, B.S. 1976, St. John's University Bonnie Gail Lemberg, B.S. 1977, State University of New York at Stony Brook

Kenneth Scott Lerrick, A.B. 1977, Harvard University Charles Edmond Libby, B.A. 1973, Illinois Wesleyan University

Marcus Hsiu-Hong Loo, B.S. 1977, Cornell University Fernando Lopez, B.A. 1977, Queens College Andrea Lotze, A.B. 1977, Brown University Jay Donald Mabrey, A.B. 1977, Cornell University Irene Magramm, A.B. 1977, Barnard College Sergiu Liviu Marcus, B.S. 1969, Polytech Bucharest; M.E.E.E. 1974, City College of New York; Ph.D. 1978, Rockefeller University

John Gregory Mezochow, B.A. 1974, Trinity College Blaine Anthony Morton, B.S. 1977, Massachusetts Institute of Technology

Philip Matthew Murphy, A.B. 1975, Princeton University Joseph Brady O'Connell, B.A. 1977, University of Rochester

Roslyn Leah Posner, B.A. 1977, Washington University Michael Seth Rabin, B.A. 1977, Swarthmore College John Francis Reinus, B.A. 1970, Amherst College Michael Jonathan Robbins, A.B. 1977, University of

Charles Mark Rosenthal, B.A. 1974, Dartmouth College Neil Stuart Rosenthal, B.A. 1977, Wesleyan University Gary Steven Rudolph, B.A. 1976, Adelphi University Andrew Eric Sama, A.B. 1977, Columbia University Robert Isaac Sassoon, A.B. 1977, Dartmouth Univer-

Paul Mitchell Schlosser, A.B. 1977, Cornell University Nancy Reynolds Schneider, B.A. 1963, Ohio Wesleyan University: M.A. 1964. University of Michigan

Alan Theodore Schwartz, B.S. 1976, Stevens Institute of Technology

Sharon Eve Selinger, A.B. 1977, Cornell University Kee-Yee Shum, B.S. 1977, Brooklyn College Joel Michael Solomon, B.A. 1977, State University of New York at Buffalo

Rafael Soltren, B.A. 1977, Amherst College Samuel Seth Spigelman, B.S. 1977, Stanford University Lala Maria Stawowy, B.A. 1977, Johns Hopkins Uni-

Michael Dennis Steiner, B.S. 1977, Cornell University Charles Kingsbury Stone, B.A. 1977, Colgate University Sharon Ann Strong, B.A. 1977, University of Rochester Loretta Anne Sullivan, B.S. 1977, College of Mount Saint Vincent

David Loren Symonds, B.S. 1977, University of Wash-

Nina Felice Tabachnik, B.S. 1975, Yale University Catherine Emily Tesluk, B.S. 1977, Loyola Marymount University

David John Wagner, B.S.E. 1977, University of Pennsylvania

Franklin Walker III, A.B. 1976, Harvard University Daniel Gerard Walsh, B.S. 1977, Georgetown Univer-

Robert Francis Ward, B.A. 1972, Cathedral College of the Immaculate Conception

Stephen Michael Winter, B.S. 1972, University of Illinois Judith Ellen Wolf, B.S. 1977, Yale University Elizabeth Anne Wuerslin, B.S. 1974, Saint Lawrence University

Joyce Marie Young, B.A. 1977, Trinity College Sina Halil Zaim, B.A. 1973, Rutgers University

#### Third-Year Class

Albert Ades, B.S. 1976, Emory University Robert Maxwell Aisenberg, B.S. 1978, Columbia University

David Wilson Altchek, A.B. 1978, Columbia University Lori Lynn Altshuler, A.B. 1977, Cornell University Bruce Jefferson Aronow, B.A. 1976, Stanford Univer-

Susan Elizabeth Austrian, B.A. 1978, Wellesley College Jae Kelly Baxter, B.A. 1978, Brigham Young University Carol Lynn Baker, B.A. 1977, Wheaton College John Stephen Blanco, B.A. 1978, New York University Diane Elizabeth Bloomfield, B.S. 1978, State University of New York at Stony Brook

Gerardo Bustillo, B.A. 1978, Rice University Douglas Francisco Buxton, B.A. 1975, Yale University Timothy Andrew Byrnes, A.B. 1978, Harvard University Brendan John Carroll, A.B. 1978, Cornell University Paul Nicholas Casale, B.S. 1978, Tufts University Charles Edward Cavagnaro III, B.S. 1978, Cornell University

Clara Chi Chen, A.B. 1978, Princeton University Elizabeth Anne Cohen, B.S. 1978, Tufts University Elizabeth Concepcion, B.S. 1977, Herbert H. Lehman College

Peter Stephen Conti, B.A. 1978, Johns Hopkins University

Saundra Ellen Curry, A.B. 1974, Cornell University James Patrick Dailey, B.A. 1974, Harvard University Michael Patrick Davey, B.S. 1976, Manhattan College Michael David DeMeo, B.S. 1977, Cornell University Anthony Bradford Demond, B.A. 1974, Haverford College

Douglas Kent Diehl, B.A. 1978, Carroll College Walter Edmund Donnelly, Jr., B.A. 1977, College of the Holy Cross

Timothy Joseph Dowd, B.A. 1974, Columbia University Deborah Ann Downes, A.B. 1978, Cornell University Lawrence Howard Durban, B.A. 1978, Johns Hopkins University

Jean-Francois M. A. Eid, B.Sc. 1976, Brown University David William Eisele, A.B. 1978, Dartmouth College Richard Randy Eisenberg, A.B. 1977, University of Pennsylvania

Leslie Ellen Eisenbud, A.B. 1978, Princeton University James William Feeley III, B.A. 1978, Queens College Robert Reid Felder, A.B. 1978, Princeton University Walter Reid Fenning, B.A. 1977, University of Vermont Mark Alan Fierstein, A.B. 1978, Princeton University Jose F. Flores, Jr., B.S. 1978, Massachusetts Institute of Technology

Timothy Swift Ford, B.A. 1977, University of California, San Diego

Bradbury Fuller, A.B. 1978, Harvard University Laszlo Fuzesi, A.B. 1977, Princeton University Bruce Gary Gellin, B.A. 1977, University of North Carolina

Steven Alan Goldman, A.B. 1978, University of Pennsylvania

Elena Lorel Goldstein, A.B. 1978, Cornell University Richard Scott Goldweit, B.S. 1978, University of Rochester

Stephen Robert Goodnough, A.B. 1978, Columbia University

Peter Guy Stapleton Gunther, B.A. 1978, Williams College

Robert Callan Hajosy, Jr., B.S. 1978, St. Lawrence University

Blaine Richard Heric, B.A. 1978, Stanford University James Hession, B.S. 1978, Michigan State University Bruce Eliot Hirsch, B.A. 1978, Wesleyan University Katherine Prescott Holden, A.B. 1973, Princeton University

Harry Walter Horner, B.A. 1973, Washington and Jefferson University

Caren Jahre, A.B. 1978, Radcliffe College Jonathan C. Javitt, A.B. 1978, Princeton University John Jereb, B.S. 1978, Cornell University Peter Hamilton Judson, B.A. 1978, Dartmouth College Robert Gordon Kalb, B.A. 1978, Wesleyan University Armen Kevork Kasabian, S.B. 1978, Massachusetts Institute of Technology Stuart Johnston Knechtle, A.B. 1978, Princeton University

Susan Faye Kroop, A.B. 1978, Cornell University Janice K. Kubo, B.A. 1978, Rutgers University Renato Vincenzo La Rocca, B.S. 1976, Liceo Scientifico Statale

Shelley Lanzkowsky, A.B. 1978, Brown University
Chi Chi Lau, B.S. 1978, Cornell University
Wendy Yan-Kai Lee, A.B. 1979, Cornell University
Laurie Ann Letvak, B.S. 1978, Cornell University
Christopher Walker Ley, A.B. 1973, Dartmouth College
Robert Adam London, B.A. 1978, Case Western
Reserve University

Carl Javier McDougall, B.S. 1978, Rochester Institute of Technology

Grace P. Makari, B.A. 1977, Harvard University Kathleen Ann Marinelli, A.B. 1978, Cornell University Christopher Richard Marino, B.A. 1973, State University of New York at Binghamton; M.S. 1978, New York University

Anne Zoe Mazer-Weitz, A.B. 1976, University of Pennsylvania

Arthur Felice Milone, A.B. 1978, Columbia University James Sill Morgan, Jr., B.A. 1974, Trinity College Richard Michael Mortensen, B.S. 1977, Pennsylvania State University

James Alan Nesper, B.A. 1978, State University of New York at Buffalo

Marla Joy Onishi, A.B. 1978, Cornell University Marjorie Marion Ordene, B.A. 1976, Swarthmore College

Steven Leslie Parker, B.S. 1978, Haverford College Evelyn Mary Placek, B.A. 1975, Colgate University Douglas J. Quint, B.A. 1978, Wesleyan University Mark Anthony Ramirez, B.S. 1978, City College of New York

James Edward Ramseur, Jr., A.B. 1978, University of Pennsylvania

William Hall Reynolds, A.B. 1974, Harvard University Charles Harker Rhodes III, A.B. 1975, Harvard University

Richard Patrick Richardson, B.A. 1978, Pomona College

Nelson David Rodriguez, B.S. 1978, Columbia University

Ellen Barbara Rogin, B.A. 1978, Hunter College Michael Rosenbaum, B.A. 1978, Amherst College David Rosenthal, A.B. 1978, Harvard University George William Rozakis, B.S. 1977, Case Western Reserve University

Katherine Anne Rozanski, B.S. 1978, Massachusetts Institute of Technology

Carline A. St. Louis, B.S. 1978, City College of New York

Emily Bland Sonnenblick, B.A. 1978, Smith College Joel Steven Spellun, B.A. 1978, Cornell University Barnaby Frederick Starr, A.B. 1978, Yale University Carl David Stevens, B.A. 1975, Wesleyan University Stephen Philip Sugarbaker, B.A. 1978, Wheaton College

Daniel Patrick Sulmasy, A.B. 1978, Cornell University Mark Jude Tramo, A.B. 1978, Yale University Yvonne Mae Tsai, S.B. 1978, Massachusetts Institute of Technology

James Joseph Turro, B.S. 1978, Dartmouth College Robert Allan Ungar, B.S. 1977, University of California at Los Angeles Wesley Courtlandt Van Voorhis, S.B. 1976, Massachusetts Institute of Technology

Kevin Christopher Vigilante, B.A. 1976, Johns Hopkins University

Stephanie Waldman, A.B. 1972, Barnard College Edmund Kemp Waller, A.B. 1978, Harvard University Grace Mu-En Wang, B.A. 1975, University of Michigan John William Ward, M.A. 1975, University of California at Los Angeles

Matthew Lloyd Warman, Sc.B. 1978, Brown University Wendy Beth Warren, B.A. 1978, Wellesley College Carl Broock Weiss, Jr., B.A. 1978, University of Rochester

Steven David Wexner, B.A. 1978, Columbia University Kurt Leonard Wiese, B.S. 1978, University of Wisconsin Leslie Wong, B.A. 1978, Wellesley College William Frederick Young, Jr., A.B. 1978, Dartmouth College

Michael Mark Ziegelbaum, B.S. 1976, State University of New York at Binghamton

## Second-Year Class

Michael Moisis Alexiades, A.B. 1979, Queens College Veronica Alfero, A.B. 1979, Cornell University Howard Glen Altman, B.A. 1979, Brown University Carl Elving Anderson, A.B. 1975, Harvard University; A.M. 1979, University of Michigan

James Drake Auran, A.B. 1979, Harvard University David Michael Barash, A.B. 1979, Cornell University Magda Lena Barini-Garcia, B.S. 1979, Yale University Janet Beer, Sc.B. 1979, Brown University

Roy Ainsworth Beveridge, B.A. 1979, Johns Hopkins University

George Dewey Bittar, B.A. 1979, University of Pennsylvania

Joseph Gustave Bouscaren, B.A. 1979, Yale University Emily Susan Brewer, B.S. 1979, Yale University Bryann Sheila Bromley, B.S. and M.S. 1979, Stanford University

Richard John Bucala, B.S. and M.S. 1979, Yale University

Andrew Michael Casden, A.B. 1979, Cornell University Cathryn Anne Karlin Citek, B.A. 1976, State University of New York at Old Westbury

Roy Jonathan Cobb, B.A. 1979, Wesleyan University Mark Lloyd Cohen, A.B. 1979, Cornell University Thomas Francis Cunningham, B.S. 1979, St. John's University

Richard Michael Daum, B.A. 1973, Johnson State College; M.Sc. 1978, Harvard University

Mark Raymond Depman, B.A. 1976, Harvard University

Gary Erwin Eddey, B.S. 1976, University of Maryland Guy Mac Emanuel, B.S. 1979, Massachusetts Institute of Technology

Andrew Farb, B.A. 1979, Dartmouth College Frank Alexander Fedele, B.A. 1979, Johns Hopkins University

John Morris Feigert, B.A. 1979, Harvard University Andrew Jonathan Feldman, B.A. 1979, University of Vermont

Konrad Wladyslaw Filutowski, B.A. 1979, Columbia University

Helene Fischer, B.A. and M.A. 1979, Brandeis University

David Erich Fisher, B.A. 1979, Swarthmore College

Timothy Palen Flanigan, B.A. 1979, Dartmouth College John Anthony Fontanetta, B.S. 1979, Fordham University

Steven Louis Galetta, B.S. 1979, University of Pennsylvania

John William Garrett, B.A. and M.A. 1979, Northwestern University

Jonathan Dean Gates, B.S. 1979, Trinity College Hans Gerdes, B.S. 1979, Yale University Linnie Maria Golightly, B.S. 1979, Wayne State Uni-

Thomas Golin, B.A. 1973, New York University; M.A. 1974, State University of New York at Albany Nicholas James Gonzales, B.A. 1970, Brown University Michael Walter Guth, B.S. 1979, Haverford College Debra Sharon Guthrie, B.A. 1979, Queens College William Frederick Hahne, B.A. 1976, Grinnell College; M.A. 1978, University of California at Berkeley

M.A. 1978, University of California at Berkeley Christopher Francis Hannum, B.A. 1979, Amherst College

Gregg Stephen Hartman, B.A. 1979, Williams College Julie Anne Hatterer, B.A. 1979, Princeton University Merrill Scot Herman, B.A. 1979, University of Pennsylvania

Timothy Taylor Higgins, B.A. 1979, Dartmouth College Gerald Pierre Hoke, B.A. 1979, New York University John Blake Holt, B.S. 1977, University of Connecticut Allan Evans Inglis, Jr., B.A. 1978, Hobart College Sharon Lee Inkeles, A.B. 1979, Cornell University Anand S. Jagannath, B.A. 1979, State University of New York at Stony Brook

Frances Elizabeth Jensen, B.A. 1978, Smith College Lawrence Joseph Jordan, B.S. 1979, Cornell University Perry Lindsey Kamel, B.A. 1979, Columbia University Lisa Blanche Kole, A.B. 1979, Cornell University Richard Ian Lappin, B.A. 1979, Columbia University Howard Leslie Leaf, A.B. 1979, Princeton University James Wonsang Lee, A.B. 1979, Cornell University Richard Theodore Lee, B.A. 1979, Harvard University David Andrew Lepay, B.S. 1978, Yale University Mark Steven Lewis, B.A. 1979, Dartmouth College Stephen Lockhart, A.B. 1977, Washington University; M.A. 1979, Oxford University

Glenn Andrew Lopez, B.A. 1979, University of Tennessee

David Paul Lyons, B.A. 1979, Columbia University Susan Lynn McElroy, B.A. 1979, Colgate University Charles Thomas McGlade, B.A. 1979, Johns Hopkins University

John Strathern MacGregor III, B.A. 1974, University of California at San Diego

Robert Carey Marchand, B.S. 1978, University of Rhode Island

Karen Sloane Marder, A.B. 1979, Cornell University David Glenn Mohler, B.S. 1979, Stanford University Charles James Morgan, B.S. 1979, City College of New York

Douglas Finley Munsey, B.A. 1978, C. W. Post College Stephen Barry Murphy, B.A. 1979, Dartmouth College Mary Catherine Nolan, B.A. 1979, State University of New York at Binghamton

Robyn Berger Notterman, B.S. 1974 and 1976, Cornell University

John Paciuc, B.A. 1979, University of Pennsylvania Prior Lewis Parker, A.B. 1978, Harvard University Eugenia Maria Parnassa, B.S. 1979, Massachusetts Institute of Technology Julie Parsonnet, B.A. 1979, Radcliffe College Marshall T. Partington, B.A. 1977, Williams College Santiago Perez, A.B. 1978, Yale University Bruce Theodore Peyser, B.A. 1979, Dartmouth College Mark Elmer Ralston, B.A. 1976, Whitman College; M.A. 1979, University of Washington

Marla Anne Reckart, B.S. 1979, University of Arizona Todd Jeffrey Reiman, A.B. 1979, Cornell University Gregg Jay Reis, B.S. 1979, Pennsylvania State University

David Mark Roth, B.A. 1977, Princeton University David Scott Rubin, B.S. 1979, Union College Arthur Francis Santiago, B.A. 1979, Columbia University

Wendy Schaenen, A.B. 1979, Cornell University Franklin Richard Schneier, B.S. 1979, Yale University Peter Aylward Scully, B.S. 1979, University of Nevada Lee Philip Shulman, A.B. 1979, Cornell University John Sierra, A.B. 1978, Cornell University Samuel Jay Snyder, B.S. 1979, C. W. Post College Michael David Spiritos, A.B. 1978, Harvard University Maureen Robin Tierney, B.S. 1979, Fordham University George Tung, B.S. 1979, City College of New York Heidi Van Bellingham, B.S. 1978, State University of New York at Binghamton

Eric Bruce Whitacre, B.S. 1979, Haverford College Tyr Ohling Wilbanks, A.B. 1979, University of California at Berkelev

Dana Kinpang Wong, A.B. 1979, Cornell University Alan Howard Wynn, B.S. 1979, Union College Constance Anne Young, B.A. 1979, Wellesley College

#### **First-Year Class**

Louise Marie Abel, B.A. 1980, Yale University Peter Charles Adamson, B.A. 1980, Wesleyan University

Donna Therese Anthony, B.S. 1980, Yale University David Alan Asch, A.B. 1980, Harvard University Boudinot Talcott Atterbury, B.A. 1979, Harvard University

Mace Beckson, B.A. 1980, Harvard University Gregory Michael Bell, B.A. 1980, State University of New York at Binghamton

Roberta Joyce Bergman, B.S. 1980, University of Maryland

Thomas March Blum, B.A. 1973, Tufts College George Steven Bova, A.B. 1978, Dartmouth College Stephen Thomas Brady, B.A. 1980, Johns Hopkins University

Sandra Reading Chaplan, B.A. 1977, Yale University William Edward Charash, A.B. 1980, Cornell University Karin Charnoff-Katz, B.A. 1977, Barnard College Arun Chervu, B.S.E. 1980, Princeton University Norman Synlai Chow, A.B. 1980, University of California at Berkeley

Susan Melinda Cohen, B.A. 1980, Brooklyn College Susan Ellen Cohn, A.B. 1979, Stanford University Norman Hope Coleburn, B.S. 1979, Tufts University Jorge Lucas Constantino, B.S. 1980, Cornell University Gregory Alan Crooke, A.B. 1980, Bucknell University Elena Mara Cudkowicz, A.B. 1980, Barnard College Dean Anthony Cuebas, B.A. 1980, State University of New York at Purchase

Thomas Allan DeCilles, B.A. 1980, University of Rochester

Andreas Dewitz, B.A. 1976, Princeton University Barry Edward DiBernardo, B.S. 1980, Union College Beverly Eskeris, B.A. 1975, Queens College Warria Anita Esmond, A.B. 1980, Cornell University Roberto Rene Favaloro, B.S. 1980, Syracuse University

Juan Carlos Felix, A.B. 1980, Columbia University Mark Thomas Finch, B.A. 1980, Clark University Katharine Hayes Fleischmann, B.A. 1977, Harvard University

Jill Fong, A.B. 1979, Cornell University
Joanne Ellen Foodim, B.S. 1980, Cornell University
Robert Marc Friedman, B.S. 1979, Cornell University
Bruce Raymond Gilbert, B.S. 1973, University of
Bridgeport

Michael Francis Giordano, B.A. 1980, Johns Hopkins University

Jonathan Lewis Glashow, A.B. 1979, Washington University

Carlos Alfonso Gonzalez, B.S. 1977, Rutgers University Steven Mark Gordon, B.S. 1980, Hamilton College Christopher Eric Gribbin, B.A. 1979, University of Rochester

Mary Margaret Grossi, B.S. 1980, Georgetown University

Glenn Peter Gwozdz, B.S.E. 1980, Princeton University William Walmsley Hall, B.S. 1971, Queens University Kirk Thomas Harmon, B.S. 1980, Purdue University. David Aristotle Haughton, A.B. 1978, Harvard University

Peter Jay Hotez, B.A. 1980, Yale University Miriam Helen Hurewitz, A.B. 1980, Cornell University Terry Allen Jacobson, A.B. 1979, Cornell University Emile Jean-Baptiste, B.S. 1971, Fordham University Jacqueline Eleanor Jones, A.B. 1980, Smith College Sandra Joyce Kahn, A.B. 1980, Barnard College Timothy Hugh Kenefick, B.A. 1980, Williams College Joan Lori Kent, A.B. 1980, Cornell University Mazen Khayata, B.A. 1977, Ecole Active Bilingue Youn-Hee Kim, B.A. 1980, Wellesley College Barbara Ann Klatchko, B.S. 1980, Yale University James Glenn Krueger, A.B. 1979, Princeton University Julia Grace LaGuette, A.B. 1980, Cornell University Susan Fern Lehman, A.B. 1980, Cornell University Sheryl Rina Levin, A.B. 1980, Barnard College Ross Stewart Levine, B.S. 1980, San Diego State University

Nikita Alexander Levy, B.A. 1980, Queens College Cheri Lindahl, B.S. 1981, Columbia University Nancy Turner Littell, A.B. 1980, Cornell University David Hughes McCord, B.A. 1980, Vanderbilt University

Lisa Ann MacDonald, B.A. 1977, Brown University Richard John Maraia, B.S. 1980, Columbia University Jane Marten, B.S. 1980, Yale University William W. Mayo-Smith, B.A. 1978, University of Vermont

Catherine Elizabeth Meikle, A.B. 1980, Mount Holyoke College

Andrew Robert Miller, B.S. 1980, Massachusetts Institute of Technology

Drew Vincent Miller, B.A. 1980, Dartmouth College Scott David Miller, A.B. 1980, Cornell University Joseph Paul Minei, B.A. 1980, State University of New York at Buffalo

Thomas Robert Mitchell, B.S. 1978, Cornell University

Donald Milner Moore, Jr., A.B. 1980, Princeton University

Rudolfo Morales, B.A. 1980, Hunter College Betty Joanne Nyhlen, A.B. 1970, Vassar College

Hans Christopher Oettgen, B.A. 1980, Williams College

Alan Irwin Reed, B.A. 1980, Hobart College

Richard Allan Reed, B.S. 1980, University of California at Berkeley

Jon Morgan Richards, B.S. 1975, University of Illinois Hillary Allison Richardson, B.S. 1979, Massachusetts Institute of Technology

Rafael Risemberg, A.B. 1980, Cornell University Lawrence Warren Robinson, Jr., B.S. 1979, Rensselaer Polytechnic Institute

David Warren Ross, A.B. 1980, Columbia University Elizabeth Anne Sauter, A.B. 1980, Mount Holyoke

Hope Melanie Schuyler, B.A. 1979, Wellesley College Peter Leonard Scudera, B.S. 1980, Cornell University Rosalind Anne Segal, B.A. 1979, Harvard University Cheryl Joy Slinger, A.B. 1980, Cornell University Sarah Anne Stahmer, A.B. 1979, Dartmouth College Susan Marie Stalzer, A.B. 1980, Cornell University Steven Mark Stein, A.B. 1980, Columbia University Paul Peter Svitra, B.A. 1979, New York University Bruce Tagle, A.B. 1980, Cornell University Steve Chunwai Tam, B.A. 1980, University of California at Berkeley

Teddy Yangfu Tong, A.B. 1979, Harvard University Paul John Ulich, B.S. 1980, Saint Bonaventure University

Christina Van Lonkhuyzen, B.A. 1980, Bowdoin College

Leslie Ann Vensel, B.S. 1980, Boston College Susan Fern Weinberger, A.B. 1980, Cornell University Scott Michael Whitcup, A.B. 1980, Cornell University Scott W. Wolfe, B.A. 1980, Johns Hopkins University Albert Wilson Wu, A.B. 1980, Cornell University Ilchin Yi, B.S. 1980, State University of New York at Stony Brook

# **Cornell University**

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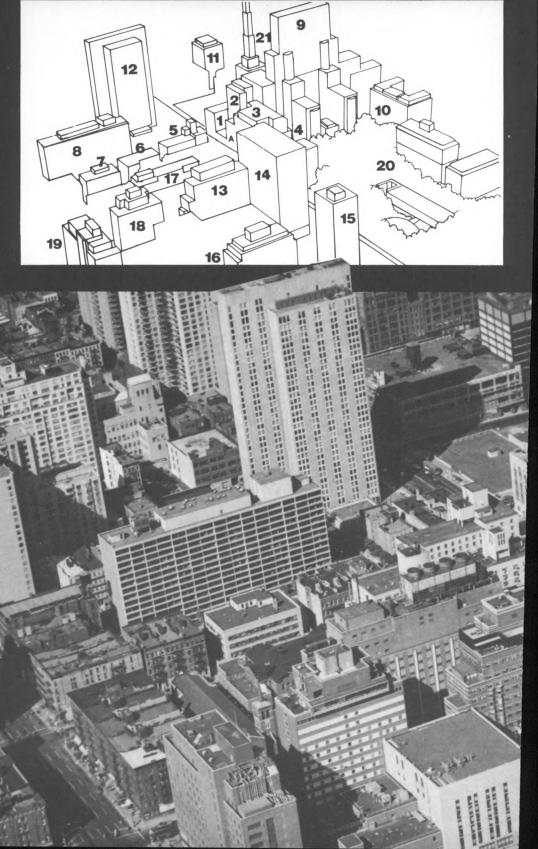
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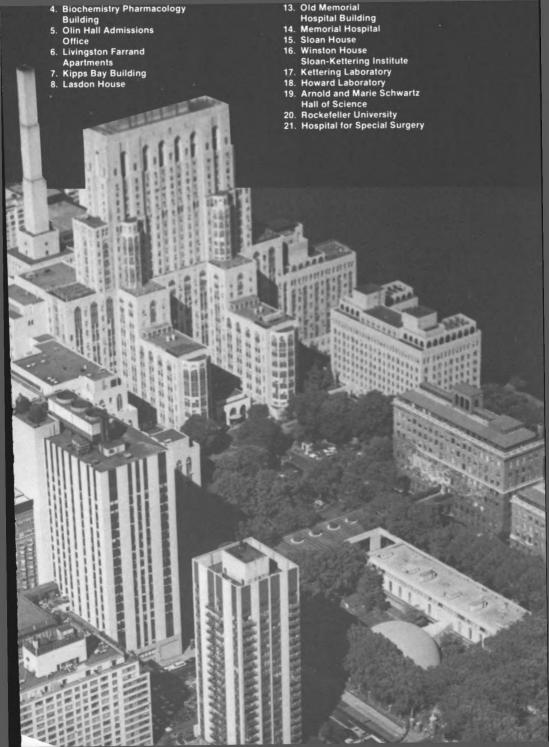
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Following is a list of *Announcements* published by Cornell University to provide information on programs, faculty, facilities, curricula, and courses of the various academic units.

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\* The Announcement of General Information is designed to give prospective students pertinent information about all aspects and academic units of the University.

New York State College of Veterinary Medicine

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Cornell University Announcements Building 7, Research Park Ithaca, New York 14850. (The writer should include a zip code.)

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