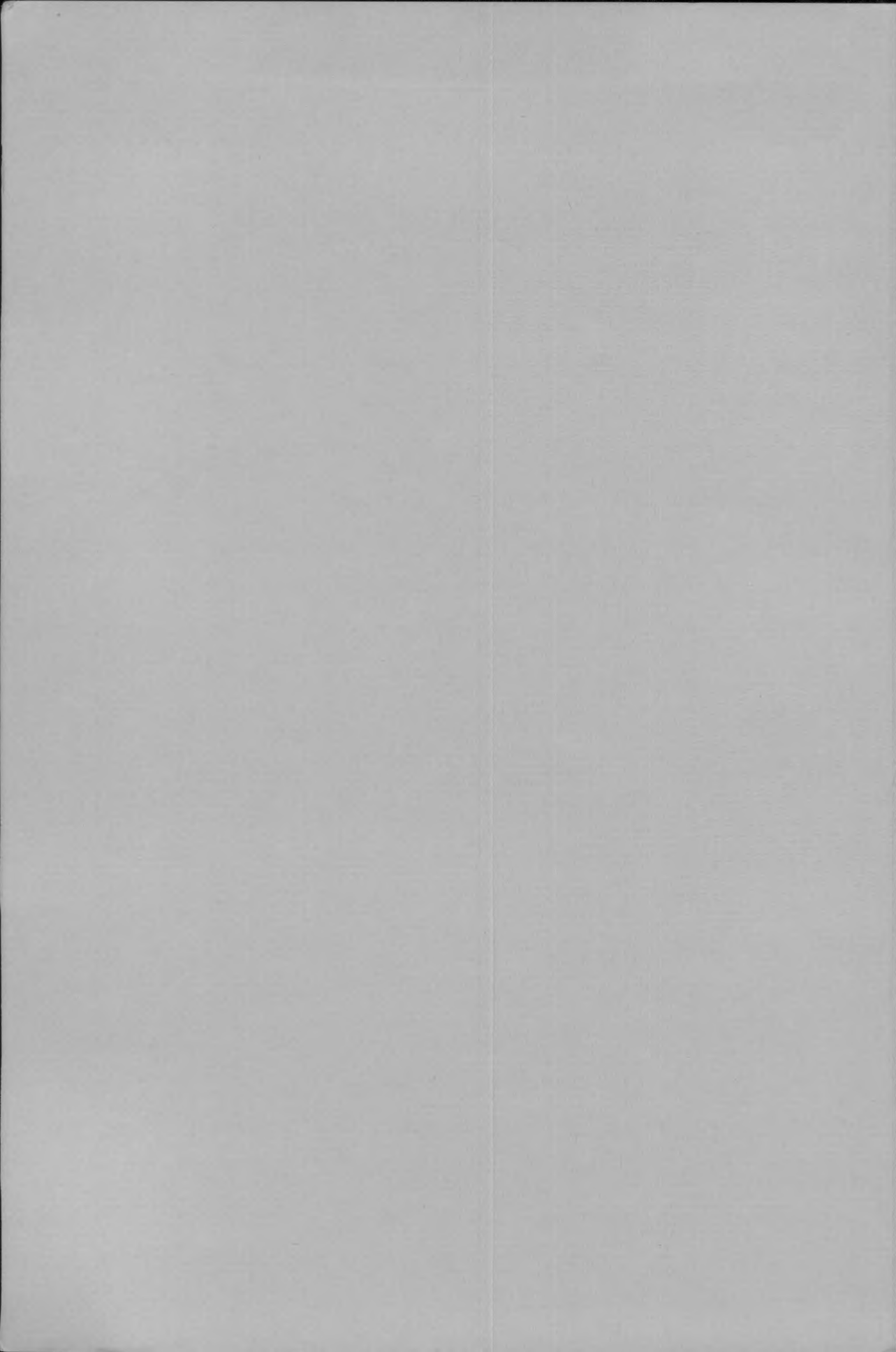


Cornell University
Announcements
Medical College
1972-73



Cornell University

Medical College

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Cornell University Announcements

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The courses and curricula described in this *Announcement*, and the teaching personnel listed herein, are subject to change at any time by official action of Cornell University.

Medical College Calendar

1972-73*

First and Second Years

1972

Monday, September 4
Wednesday, September 6–Friday, September 8

Friday, September 8
Monday, September 11
Wednesday, November 22
Thursday, November 23–Friday, November 24
Monday, November 27–Saturday, December 2
Monday, December 4
Friday, December 15
Monday, December 25

Labor Day, holiday
Orientation and Registration for First Year
Registration for Second Year
Opening Exercises, 3 p.m.
Instruction begins, 9 a.m.
Fall Term ends, 5 p.m.
Thanksgiving, holiday
Examinations
Beginning of Winter Term
Instruction ends, 5 p.m., Christmas recess begins
Christmas Day, holiday

1973

Monday, January 1
Wednesday, January 3
Friday, March 2
Monday, March 5–Saturday, March 10
Monday, March 5–Sunday, March 18
Sunday, March 11–Sunday, March 18
Monday, March 19
Saturday, April 14–Sunday, April 22
Monday, May 28
Friday, June 1
Monday, June 4–Wednesday, June 6
Friday, June 8
Monday, June 11–Wednesday, June 13

New Year's Day, holiday
Christmas recess ends, instruction begins, 9 a.m.
Winter Term ends, 5 p.m.
Examinations for Second Year
Examinations for First Year
Spring recess for Second Year
Spring Term begins for First and Second Years
Spring Recess for First Year
Memorial Day, holiday
Instruction ends for Second Year, 5 p.m.
Examinations for Second Year
Instruction ends for First Year, 5 p.m.
Examinations for First Year

* The dates shown in the Medical College Calendar are subject to change at any time by official action of Cornell University.

**Third Year
1972**

Monday, September 4
Tuesday, September 5
Monday, October 30
Thursday, November 23
Monday, November 27
Saturday, December 16, 1 p.m.–
Wednesday, January 3, 8 a.m.

Labor Day, holiday
Registration; instruction begins for Third Year
First rotation of Section II, Divisions C, D and E
Thanksgiving Day, holiday
Rotation of Section I, Divisions A and B

Christmas recess

1973

Wednesday, January 3
Monday, February 26
Monday, April 16–Saturday, April 21
Monday, April 23
Monday, May 21
Monday, May 28
Monday, June 11
Wednesday, July 4
Saturday, August 4

Second rotation of Section II, Divisions C, D and E
Midyear rotation of all divisions of Sections I and II
Spring recess
First rotation of Section I, Divisions C, D and E
Rotation of Section II, Divisions A and B
Memorial Day, holiday
Second rotation of Section I, Divisions C, D and E
Independence Day, holiday
Instruction ends for third year

**Fourth Year
1972**

Tuesday, September 5
Thursday, November 23
Saturday, December 16–Wednesday, January 3

Registration
Thanksgiving Day, holiday
Christmas recess

1973

Thursday, May 24
Wednesday, May 30

Instruction ends, 1 p.m.
Commencement, 3 p.m.

Elective Modules

A Tuesday, September 5–Saturday, October 28	(8 weeks)
B Monday, October 30–Saturday, December 16	(7 weeks)
C Wednesday, January 3–Saturday, February 17	(7 weeks)
D Monday, February 19–Saturday, April 7	(7 weeks)
E Monday, April 9–Thursday, May 24	(7 weeks)

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



Cornell University

The Medical College

Purpose and History

Cornell University Medical College has as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that in the ideal medical school high-quality teaching and widely ranging investigations in the life sciences are carried on concurrently with 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 facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously 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 four million dollars 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. 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.

Facilities for Instruction

The Medical College

Instruction in the medical sciences is conducted in the 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 Medical College Alumni Office (Room C-140), the Office of Admissions (Room D-115) and the Student Affairs Office (Room C-118) are located directly behind the Library. 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 new 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 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 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.

Graduate School of Medical Sciences

The Graduate School of Medical Sciences, one of the three academic units on Cornell's New York City campus, was organized in 1952 as a semi-autonomous 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 faculty of the Graduate School of Medical Sciences currently offers graduate programs leading to the M.S. and Ph.D. degrees in eleven biomedical fields: Biochemistry, Biological Structure and Cell Biology, Biology, Biomathematics, Biophysics, 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 1,076 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. He 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 19 subspecialty clinics. Twenty-four 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 nurses.

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 his maximum potential, the Center offers its diagnostic, evaluative and treatment services to those of all ages who have need for medical rehabilitation care.

The comprehensive program includes: services of physicians trained in rehabilitation and all other medical specialties, nursing care, nutritional research and application, 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 research.

Memorial Hospital for Cancer and Allied Diseases

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 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, which includes the James Ewing Pavilion, has 449 beds.

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.

North Shore Hospital

North Shore Hospital is a 450-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 in 1969.

All members of the medical staff of North Shore 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, North Shore Hospital's community oriented

program provides an important experience for the Medical College. Opportunities for clinical instruction are provided in medicine, neurology, surgery, 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 Hospital.

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 has been associated with the Medical College since 1913 and was incorporated into The New York Hospital in 1932. The Institute supports work in metabolism and human genetics which is conducted by members of the Departments of Medicine and Physiology. The Medical Director of the Institute is Dr. Alexander G. Bearn, Professor of Medicine.

Libraries

Samuel J. Wood Library

The 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.

Fifteen 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 speedily.

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 and duplicating services and, most importantly, a staff willing to help, are also available.

The library is open during the week from 8:45 a.m. until 11:00 p.m., on Saturdays from 9:00 a.m. until 5:00 p.m., and on Sundays from 1:00 p.m. until 11:00 p.m. The library is closed on Christmas and New Year's Day and the other holidays noted in the calendar, pp 4-5.

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 10,000 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, beginning with the class entering in September, 1973, applications will be seriously and carefully considered from students who will have completed only three years of undergraduate work but whose personal, social, and educational 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, but possession of an undergraduate degree will no longer be a requirement of candidates for the degree of Doctor of Medicine from Cornell University.

The basic premedical requirements which 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 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 coursework 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, however, 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

Each year the Admissions Committee of Cornell University Medical College selects a class of over one hundred students from over two thousand applicants. In doing so, the Committee's goal is to accept students who they feel are best prepared to provide future leadership in the field of medicine. Selection of students is influenced by the type of undergraduate preparation and demonstrated academic accomplishment. Also important are motivation and other personality characteristics such as maturity and stability of the individual. Cornell attempts to maintain a heterogeneous student body by selecting well qualified 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 to support actively the American ideal of equality of opportunity for all, and no student shall be denied admission or be otherwise discriminated against because of race, color, creed, religion, or national origin.

Admission policies are also in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

Application

Requests for application forms should be addressed to the Committee on Admissions, Cornell University Medical College, 1300 York Avenue, New York, New York 10021. For entrance in September, application forms are available after July 1 of the previous year.

To complete an application, a student should:

1. submit the completed application form to the Committee on Admissions no later than the deadline of November 30. A nonrefundable charge of \$20.00 is made for filing an application. Checks or money orders should be made payable to Cornell University Medical College.
2. arrange to have official transcripts of all undergraduate and graduate studies, including summer school, sent to the Committee on Admissions.
3. request a letter of evaluation from his college premedical advisory committee be sent to the Committee on Admissions. Two letters of evaluation from members of the faculty well acquainted with the student may be substituted.
4. request the results of the Medical College Admission Test (MCAT) be sent to the Committee on Admissions. This requirement may be waived if the applicant has not taken this examination.

Although the Committee on Admissions will attempt to notify the applicant if his application is incomplete, the responsibility for completing these requirements is the applicant's.

When a completed application has been received together with official transcripts, letters of recommendation, and MCAT scores, the Committee on Admissions reviews the application and requests personal interviews from applicants in whom it has serious interest. Because of the large number of applications, only about one-third of the applicants are invited for an interview. Any student who is attending a college at a distance from New York City, however, is invited to request an interview if he is visiting in the New York City area. In these cases, every effort will be made to arrange personal conferences with members of the Committee on Admissions. Members of the Committee also routinely visit a number of distant schools each year at which time personal interviews can be arranged. With few exceptions, all students accepted for admission to Cornell University Medical College have been interviewed personally by the Committee or its representatives.

Applicants are promptly notified of the final decision of the Committee on Admissions beginning some time after mid-December. If the Committee takes favorable action, a letter of acceptance is forwarded to the applicant, who has two weeks either (1) to hold a place in the class in order to make a final decision at a later date, but not later than March 1, or (2) to accept a place in the class by sending a deposit of \$50. This deposit is not refundable after March 1 but is credited toward the first tuition payment.

Advanced Standing

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make a deposit of \$50. Candidates seeking admission to advanced standing must furnish evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University Medical College. These applicants must present a certificate of honorable dismissal from the medical school, or schools they attended and may be required to take examinations in any of the medical courses taken in another school.

Additional information about application to the Medical College is contained in the booklet *Information for the Applicant—1972*, which may be obtained from the Committee on Admissions, 1300 York Avenue, New York, New York 10021.

Special Students

All students not registered in the Cornell University Graduate School of Medical Sciences and not registered for the M.D. degree are special students. Such students are *special students* in the true sense

of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises. There is a matriculation fee of \$10 and an administration fee of \$5. Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

Educational Policies and Plan of Instruction

The Medical College is divided into seventeen departments. Seven of the departments are primarily concerned 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 chairmen 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.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. 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. 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 his preparation for the practice of medicine includes

12 Educational Policies and Plan of Instruction

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 each.

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 course of study according to his 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 far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of great technical proficiency in the various special 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, 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.

Elective Time

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 wishes.

Third-Year Curriculum

Clerkships of seven to twelve weeks' duration, in the forty-five week (September through July) third-year curriculum, provide a sound basic introduction to all the major clinical fields. When a student has completed this clinical "core" curriculum, he is sufficiently acquainted with the various clinical specialties to have identified his primary areas of interest, both in the clinical and basic science fields.

Accordingly, he is prepared to plan an educational program, for his final medical school year, which is best suited to his interests and needs.

In the spring of the third year, each student chooses a senior faculty member as an adviser to help him in planning his 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 program is entirely elective. Thirty-five weeks long, it is divided into elective periods which match the modules of the third year. This enables students who have sound educational reasons to defer certain modules of the third-year core curriculum until the final year.

Summer Fellowships

Several fellowships paying a stipend of \$750 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 his choice. Such research opportunities are available in all departments of the Medical College. A leave will be considered for investigative work in other institutions; a number of fellowships are available to support such work. 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, 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.

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 graduate

education in the many areas available at the Rockefeller University, under the direction of the Rockefeller faculty. Students completing the program receive an M.D. degree from Cornell University and a Ph.D. degree from the Rockefeller University.

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 by the Rockefeller University and then select the program most consistent with his research and career goals. Both coordinated programs are normally expected to require about six calendar years of study and both offer the same tuition and stipendary support. Although the program with Rockefeller University can only be entered initially, the program with the Graduate School of Medical Sciences can be entered at any time by matriculated Cornell medical students or by resident physicians on the house staff of hospitals affiliated with the Medical College.

Questions about these programs should be addressed to: Office of Admissions, Cornell University Medical College, 1300 York Avenue, New York, N.Y. 10021.

Summer Fellowship Program for Minority Students

A summer fellowship program for minority-group premedical students has the specific aim of increasing the number of minority-group students in leading medical schools. Premedical students who have completed their junior year spend ten weeks as summer Fellows at the Medical Center. They work at a variety of research activities with sponsors who are faculty members from different departments. The students in this program are involved jointly with medical students who hold similar fellowships. The Fellows receive a stipend of \$100 per week. All students are housed in Olin Hall, the medical students' dormitory. A series of seminars, scheduled twice weekly, provides information on medical careers and includes such topics as procedures for application to medical schools and means of obtaining scholarship aid. Also, students take part in a series of discussions on the health problems of ghetto communities.

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 Examination

The usual Cornell medical curriculum is divided into four successive academic years, each of which builds upon the subject material of the preceding year. Generally, a student must complete all of the course work of one academic year before he can be approved for advancement by the faculty. Any

student who, by quality of work or by conduct, indicates an unfitness to enter the medical profession, may, following due process, be required, at any time, to withdraw from the Medical College.

At the end of each academic term, a student's performance is normally evaluated in all of the required and elective courses of that term. A student's final rating in a course is determined by his performance in all of the course work including an evaluation of his effort, his seriousness of purpose, his scholastic resourcefulness, and the results of examinations.

A final rating is made for each student at the end of the academic year based on the results of his performance in all of the courses in the curriculum of that year. These final ratings are made by formal action of the faculty after review of recommendations of the Committee on Promotion and Graduation. This final rating places students into one of four groups:

1. Passed. Ordinarily, students are recorded as "passed" only if they have no deficiency in any subject. This rating confers eligibility for readmission to the Medical College in the next higher class unless, in instances of special concern, an *ad hoc* committee of the faculty determines the student unsuited for the medical profession.
2. Conditioned. Students who fail any required or elective courses are recorded as "conditioned". A "conditioned" student will be reevaluated by the concerned faculty prior to the beginning of the next academic year and subject to conditions determined by the faculty. Students with a failure in one course after a single reevaluation will be required to remove the "conditioned" status before the end of the next academic year. Students with failures in two courses after reevaluation will be required to repeat the year.
3. Not passed. If, after reevaluation, a student has failures in three courses in any one year, he is recorded as "not passed". A rating of "not passed" carries ineligibility for readmission to the Medical College.
4. Special Review. Students with generally marginal performance for two or more years are subject to special review by the Committee on Promotion and Graduation. Students with a record of this kind who are judged unqualified to continue medical studies at Cornell will be ineligible for readmission to the Medical College.

At the close of every academic year, each student is notified of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of

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avoiding possible loss and fraudulent use of an official document of the Medical College.

Requirements for Graduation

The 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.

Any individual who has outstanding indebtedness to the University, which is in arrears, shall not be allowed to register or re-register in the University, receive a transcript of his record, have his academic credits certified, be granted a leave of absence, or have his degree conferred.

Every candidate for a degree shall pay, or satisfactorily arrange, all accounts due the University at least ten day before the time for conferring degrees.

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 government 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 Business 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.

Application Fee

A charge of \$20 is made for reviewing each application.

Acceptance Deposit

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee of \$50 is paid. The fee is credited toward the tuition charge and is not refundable if the student fails to enter.

Tuition

Tuition for one academic year is \$2,500 (starting July, 1972). It is payable at the beginning of the academic year or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance. The following are included in the tuition fee:

1. Matriculation Fee.
2. Student Hospitalization Insurance. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.
3. Personnel Health Service.
4. Graduation Fee and Rental Fee for cap and gown for graduation exercises.

Books, Instruments and Microscopes

The average cost of books and instruments is distributed approximately as follows: first year, \$325; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. The instrument should have scanning (3-5 X), low-power (10 X) and medium-power (40 X) dry objectives. It is important that the coarse adjustment of the scope permit a clearance of at least 30 mm between the 10 X objective and the stage. The scope should also be equipped with a well-working oil immersion system. The oil immersion objective, substage condenser, and light source should produce sharp images of good resolution in a well-illuminated viewing field. Arrangements can be made to purchase a microscope from the College Book Store after arrival, if the student desires. Monocular microscopes are available for rental at \$50 a year. Anyone wishing to rent one should write to the Office of Admissions, to make reservations as early as possible.

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 money is derived from the several endowed funds and other sources 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.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his 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.

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

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

The Lois and Max Beren Foundation will 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 his studies but who would find it impossible or impracticable to do so without the financial support of the Foundation.

The John V. Bohrer Scholarship Fund was established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from this fund are awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

The Lucien and Ethel Brownstone Merit Medical Scholarship. Generous gifts of \$80,000 each 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 is to be awarded as a four-year scholarship to one or two students. The donors hope to "stimulate 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 1968.

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

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

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

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

The Equitable Life Assurance Society Grant. A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.

The Jeremiah S. Ferguson Scholarship was established 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 fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Financial Aid to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid and who, by their conduct and scholarship, have proved worthy investments.

The Joseph P. Ferrigan Fund. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

The Wallace D. Garabrandt Scholarship, established by Mabel G. Gormley, is 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 Fund, established by a bequest from the estate of E. Norman P. Graham, provides scholarship assistance for deserving students of the Medical College.

Connie Guion Scholarship. Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

Mary F. Hall Scholarship. The income from a fund

established by bequest of Miss Mary F. Hall is available to any woman student in Cornell University 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.

Health Professions Scholarship Program. At the present time the Health Professions Scholarship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes approximately \$16,000 per year for each enrolled class. Individual awards may not exceed \$2,500 per year, and all awards are based on demonstrated financial need.

The Dr. John A. Heim Scholarships. 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 medical 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.

Maier and Shantsya Hitzig Scholarship. Through a gift of \$5,000, Dr. William M. Hitzig '29 established this 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 established 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 for needy but worthy students.

The Ruth Hollohan Scholarship Fund was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The 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 Fund. 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.

The Dr. Charles I. Hyde '10 and Eva Hyde Scholarship Fund. Established 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 who are in need of assistance.

The Mary Putnam Jacobi—Anna Forrest Rowe Scholarship. A bequest from William Vincent Rowe endowed this fund. The income provides assistance, preferably for women medical students.

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

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

The Elise Strang L'Esperance Scholarship, established by a bequest from Dr. L'Esperance, provides financial assistance for women students at Cornell University Medical College.

The Dr. Thomas Lowry Scholarship Fund was established by Dr. Elizabeth C. 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 women 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 of \$5,000 was established in 1936. 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 it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be utilized for research work or other projects as determined by the faculty or trustees.

The 1939 John and Katherine Mayer Scholarship Fund of \$5,000 was established in 1939. 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 it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be used for research work or other projects as determined by the faculty or trustees.

The Dr. George A. and Nora W. Newton Scholarship 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 medical students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

The Evelyn Buckalew Ochester and Charles W. Ochester Memorial Scholarship Fund. This permanent 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 scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

The Pfizer Laboratories Scholarship. The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

The John Metcalf Polk Scholarship. A gift under the will of William Mecklenburg Polk, the first dean of the Medical College, is awarded annually by the faculty.

Fund for Training in Psychiatry. 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.

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

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

The Dr. Jacques Saphier Scholarship Fund was established 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 income is awarded annually to a meritorious student of Cornell University 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.

The Carl J. Schmidlapp Memorial Fund was established 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 Cornell Medical College selected by the faculty on the basis of need and ability.

The Thorne Shaw Scholarship Fund provides three scholarships. 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 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 room-rent scholarship.

The Charles Rupert Stockard Scholarship. A fund of \$10,000 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 interest from this fund is to be awarded either to 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.

The Walter C. Teagle Scholarship Fund, established July 1, 1963, by The Teagle Foundation, Inc., is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a 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 medical students may have available further funds to help defray the rising costs of medical education."

The Leona E. Todd Scholarship. Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

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

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

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

New York State Scholarships for State Residents
Information about scholarships for New York State residents may be obtained by writing to the Regents

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Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

Scholar Incentive Program. Applications should be filed before July 1 for each academic year but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. Annual application is required.

Regents Scholarships for Graduate Study in Medicine and Dentistry. Applications should be filed by October of the last year of preprofessional study.

Bursary for Women Students

The Marie and John Zimmerman Fund. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms: "It is the desire of the Fund that the Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads him to believe that the recipients of the awards will make a success in their profession." The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

General Aid

The Benjamin T. Burton Memorial Fund has been established through the bequest of Benjamin T. Burton, long-time friend of Cornell University Medical College and a member of the class of 1922, Cornell University. It was his wish that these funds be used for any purpose that the dean of Cornell University Medical College deems to be in the best interest of the students.

Loan Funds

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

Alumni Association Loan Funds. The Alumni Association of the Medical College is able to aid a few students in meeting their expenses through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

Student Loan Fund. A revolving fund contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is 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. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.

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.

Federal Loan Fund. The Medical College has participated with the Department of Health, Education, and Welfare in establishing a Health Professions Student Loan Fund, pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963. Loans up to \$2,000 may be made yearly if justified by financial need. Interest is not charged until three years after graduation and then is assessed at the federal interest rate current at the time the loan was made. Loans are to be repaid during a ten-year period beginning three years after graduation.

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.

New York State Guaranteed Loans for State Residents. Students seeking New York State guaranteed loans should apply to the New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

Prizes

The 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 Cornell University 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 submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

The Prizes for 1972 were awarded to Brian Rutley, John T. Boyle and Frederick E. Tabachnick.

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 is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

For 1972 this Prize was awarded to Mark Vrana.

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 is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

For 1972 this Prize was awarded to Barry H. Smith.

The Sarah O'Laughlin Foley Prize in Clinical Medicine. Dr. William T. Foley, clinical associate professor of medicine 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 chairman of the Department of Medicine.

For 1972 this Prize was awarded to Mark Vrana.

The 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".

In 1972, the Award was presented to Jonathan Willard Hopkins.

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

Charles L. Horn Prize Fund. The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

The Prize in 1972 was awarded to John Bennett Coombs.

The Herman L. Jacobius Prize 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.

The George S. Meister 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 a fund contributed by members of his family, his close friends and associates, his classmates in chemical engineering at New York Univer-

sity, 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 1972, the prize was awarded to Henry Leon de Givé III.

The Alfred Moritz Michaelis Prize 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 Cornell University 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 Cornell University Medical College.

In 1972, the prize was awarded to Thomas William Griffin.

National Foundation Merit Award. The National Foundation offers a Merit Award of \$250 to the medical student who is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate by April 15.

In 1972, this award was given to Clifford Simon.

The Gustave J. Noback Memorial Fund in Anatomy. Established in 1962 by Miss Berthe Manent, a graduate of the New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback is remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income of 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.

The 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 Arthur Palmer Prizes for Efficiency in Otorhinolaryngology. This prize is made available from the Arthur Palmer Fund which was provided by the members of the Division of Otolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who makes the best record in this specialty.

In 1972, the Prizes were awarded to Martin Peter Elliott and Francis William Gamache, Jr.

The John Metcalfe Polk Prizes for General Efficiency. Three Prizes are given in commemoration of John Metcalfe 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

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highest academic standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

For 1972, the Prizes were awarded to Robert Gary DeLong, James Edward Gadek, and Michael Anthony Mustille.

The Gustav Seeligmann Prizes for Efficiency in Obstetrics. Two prizes, endowed 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 1972, the Prize were awarded to Thomas W. Castaldo and Mark Andrew Sullivan.

The Sondra Lee Shaw Memorial Fund. The fund supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the medical student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system or behavioral science. The prize winner is chosen by the Committee on Prizes in Research.

The Award for 1972 was presented to Jeffrey D. Urman.

The 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, class of 1964. The Prize is awarded annually to the member of the graduating class who has made the best record in pediatrics.

In 1972, the Prize was awarded to Thomas Lyle Kennedy, Jr.

The T. Campbell Thompson Prize 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. The income is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

In 1972, the Prize was awarded to Marc Jay Friedman and William Norman Scott.

The William C. Thro Memorial Fund 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 in his alma mater continuously from 1910 to 1938. The prize award is given to the student who attains the best record in the clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

The Upjohn Achievement Award. This annual award to a member of the graduating class is given in recognition of outstanding achievement in research. Consisting of a cash award and a plaque, the Award is supported by the Upjohn Company.

The Award for 1972 was presented to Joseph E. Parrillo, Jr.

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 1972, the Prize was awarded to Bart Peter Ketover.

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, Dr. Harold G. Wolff. The Prize consists of a cash award and a selection of the writings which represents 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. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Prize for 1972 was awarded to John B. Coombs.

Named Professorships

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

The Winifred Masterson Burke Professorship in Rehabilitation Medicine was established in 1971 with a gift from The Winifred Masterson Burke Relief Foundation. The chair has not yet been filled.

The James J. Colt Professorship of Urology in Surgery was established in 1970 through a gift from the James J. Colt Foundation. The first and present occupant of this chair is Dr. Victor F. Marshall, 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 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. Dr. Fritz Fuchs, present occupant of the chair, has as his principal research interest the endocrinology and physiology of human reproduction.

The Roland Harriman Professorship of Cardio-Vascular Medicine was established with a gift from

Mr. and Mrs. E. Roland Harriman in 1963. The first and present occupant of the chair is Dr. Thomas Killip III, head of the Division of Cardiology in the Department of Medicine. Dr. Killip, a 1952 graduate of the Medical College, has specialized in research studies aimed at reducing mortality from myocardial infarction.

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, chairman of the department and professor of psychiatry since his appointment at Cornell in 1962, is the first occupant of the chair.

The Joseph C. Hinsey Professorship of Anatomy, established in 1966 upon receipt of a gift from Nicholas Noyes, 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, who has been professor of anatomy and chairman of the Department since 1959.

The Johnson & Johnson Distinguished Professorship in Surgery was established in 1972 through a grant from the Johnson & Johnson Associated Industries Fund. The first and present occupant of this chair is Dr. Paul A. Ebert, chairman of the Department of Surgery and Surgeon-in-Chief of The New York Hospital.

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 first occupant is Dr. Edward H. Ahrens, Jr., professor at Rockefeller University as well as professor of medicine at Cornell University Medical College.

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 eye 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. This chair has not yet been filled.

The Israel Rogosin Professorship of Biochemistry 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 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 present Lewis Atterbury Stimson Professor of Surgery is Dr. C. Walton Lillehei. He succeeded Dr. Frank Glenn upon Dr. Glenn's retirement in 1967.

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 and present occupant of this chair is Dr. Robert F. Pitts, who has been chairman of the Department of Physiology and Biophysics since 1950.

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.

In addition to the professorships described above, a chair, occupied by Dr. Alexander G. Bearn, chairman of the Department of Medicine, has been endowed by Mr. Rogosin but not yet 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 Foundation, Inc., the sum of \$....."

Honorary Societies

Alpha Omega Alpha

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship and satisfactory moral qualifications. 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.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

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 open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1972 were: John B. Coombs, R. Gary DeLong, James E. Gadek, Thomas W. Griffin, Paul G. Hess, Jonathan W. Hopkins, Bart P. Ketover, Michael H. Lavyne, Neil R. MacIntyre, Jr., Michael A. Mustille, Joseph E. Parrillo, Jr., Barry H. Smith, Mark Sullivan, Karl C. Sze, Mark Vrana and Robert A. Weinstein.

Sigma Xi

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proven ability to carry on original medical research and on nomination by active members of the Cornell chapter.

Alumni Association

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 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-140. An annual appeal for unrestricted funds for the Medical College is made to the members of the Association.

Officers

Walter F. Riker, Jr., M'43, President
Richard T. Silver '53, Vice President
Frederic T. Kirkham, Jr., '47, Secretary
George R. Holswade D'43, Treasurer
William A. Barnes '37, Chairman, Medical College Fund

Directors

Four-year term:	Carl Becker, '61 Arthur Beil, '59 Donald A. Fischman, '61 Neil C. Klein, '60
Two-year term:	Richard Austin, '50 William Eastman, '42 Kathryn H. Ehlers, '57 Richard M. Sallick, '62

Executive Secretary

Harriet Peppel

Military Advisers

The following members of the faculty are available to students for consultation on the program offered by the various military units:

E. Lovell Becker, Professor of Medicine (Air Force)
Carl A. Bernsten, Clinical Assistant Professor of Medicine (Navy)
August H. Groeschel, Assistant Professor of Public Health (Army)

Personnel Health Service

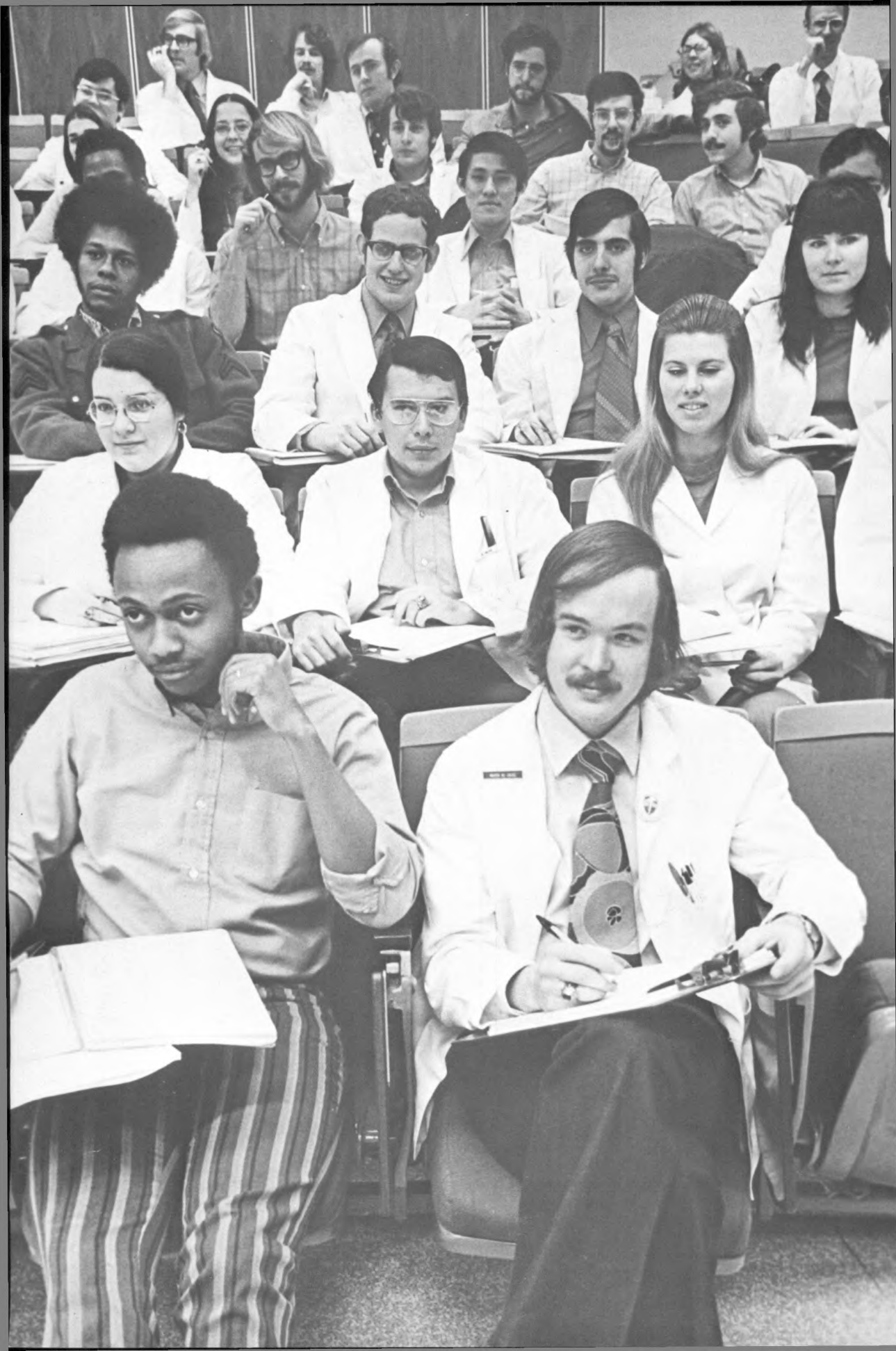
Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is 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 any X ray, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance, unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the tuition. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 1:00 to 2:00 p.m. by the Health Service staff. 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. Wives 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 contains a gymnasium, snack bar, lounge rooms and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. 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 and linen service is provided. Student rental for an academic year is \$750; for a full year (twelve months), \$900; and for periods of less than an academic year, \$80 per month. Several cafeterias are available in the main college and hospital buildings.

There are a limited number of apartments available through the Medical College for married students.



Departments of Instruction

Anatomy

Professors

Roy C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman; Dorothea Bennett; Dana C. Brooks; Leonard L. Ross

Clinical Professor

Allen E. Inglis

Associate Professors

Michael D. Gershon; Wilbur D. Hagamen; Thomas H. Meikle, Jr.; Julio L. Sirlin

Clinical Associate Professor

James L. German, III

Adjunct Associate Professor

Myron Jacobs

Assistant Professors

Fakhry G. Girgis; Martin D. Hamburg; Toby C. Rodman; John C. Weber

Clinical Assistant Professor

John L. Marshall; George Stassa

Visiting Assistant Professor

David Soifer

Instructors

Gerald Doohar; Anthony Paparo; D. Russell Pollard; Martha Spiegelman

Visiting Research Associate

Suzanne B. Murphy

Research Fellows

Rosemary Bachvarova; Gwen-Marie Moolenaar; Elizabeth Rittenhouse

Assistants

Barbara Burchanowski; Jane Caldwell; Ricardo Calvo; Maria Caserta; Victor DeLeon; Cheryl Dreyfus; Carol Dyer; Lorraine Flaherty; Barry Kaplan; Leslie Morioka; Taube Rothman; Bonnie Wood; Roger W. Soller; Meryl Steinberg; Jacqueline Winterkorn

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 which 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 firsthand 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. For, 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 three courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural and functional systems. The brain and spinal cord are most effectively 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 and Development. Selected concepts of fine structure, the mechanisms by which structure develops, differentiates and ages, and the genetic control of these mechanisms are presented in lectures to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally

26 Anesthesiology

presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, X-ray diffraction analysis, and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed.

Gross Anatomy. Regional anatomy is studied principally through dissection of the human body. Supplementing this are prosections by instructors, tutorial group discussions and radiographic and endoscopic 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 laboratory for gross dissection of the preserved human brain and for the study of serial histological sections of the human brain in three different planes. The effects of stimulation and interruption of specific neural pathways are demonstrated in experimental animals.

Elective Options

Clinical Anatomy. Each week, in a one hour conference, a patient will be presented whose case illustrates the application of anatomical concepts. Following each case presentation, the concepts will be discussed in depth.

First trimester: Weeks, 11. Unlimited enrollment
Dr. Swan

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

First trimester: Weeks, 11. Unlimited enrollment
Dr. Stassa

Genetic and Biochemical Correlates of Development.

This course, consisting of a series of lectures and student seminar workshops, will approach embryology from both a molecular biologist's and a geneticist's viewpoint. The problems of early differentiation will be explored in the light of available biochemical and morphological evidence. Selected examples of gene-environment interactions and drug-induced malformations will be discussed.

First trimester: Weeks, 11. Unlimited enrollment
Drs. Bachvarova and Pollard

Advanced Genetics. This course, designed to give the student a sound background in genetical theory, is an in-depth consideration of the gene as a unit of heredity.

First trimester: Weeks, 11. Unlimited enrollment
Dr. Pollard

Clinical Anatomy of the Extremities and Back. This is a functionally and clinically oriented introduction to the extremities and back. There will be, each week, a one hour conference on radiographic anatomy, a one hour clinical conference with case presentations, and a three hour laboratory for dissection, supplemented with prosections. This course offered jointly by the staffs of the Departments of Anatomy and Radiology and of the Division of Orthopedics of the Department of Surgery.

Second trimester: Weeks, 11. 50 students
Drs. Girgis, Inglis, Stassa and Swan

Neuroscience Seminar. This elective has been designed

to parallel the third trimester core course in Neurosciences. It will consider in greater depth selected topics of the Neuroscience course that demonstrate a multi-directional approach of current nervous system research. Specific seminar topics to be announced.

Third Trimester: Weeks, 11. 25 students
Neuroscience faculty

Graduate Genetics Seminar Course. Fall, 1972: Cytological Genetics. Spring, 1973: Genetics of Differentiation in Higher Organisms.

First and Second Trimesters. Weeks, 30. Unlimited enrollment

Special course prerequisites: at least one course in formal genetics.

Drs. Bennett, Cleve and German

Anesthesiology

Professors

Joseph F. Artusio, Jr., Chairman; William S. Howland; Benjamin E. Marbury; Marjorie J. Topkins; Alan Van Poznak

Associate Professor

Olga Schweizer

Clinical Associate Professors

Herbert L. Erlanger; Daniel Tausig

Assistant Professors

John G. Halvorstam; Gail M. Ryan

Clinical Assistant Professors

Raymond G. Barile; Anita H. Goulet; Aileen F. Kass; Louis J. Maggio; John McCormick; Jerold Schwartz; David G. Susman

Clinical Instructors

Sonia Armengol; Helen M. Baconovic; Leslie L. Balazs; Dragan Borovac; Gabriel G. Curtis; John L. Fox; Paul L. Goldiner; Sabri Gunasti; Myrtle Johnson; Irene Lin; Robert C. Lin; Charles Lomanto; John Nagy; Israel Neuhaus; Roscoe A. Rossi; Harold Shifrin; Liebert Turner; Judith K. Weingram

Fellows

Ramon C. Carabuena; Myunghwan Chang; Kun Ho Cho; Keun Lyol Choi; Soon Ja Chun; Dennis J. Jascott; Moon Young Kim; Duk Hyun Lee; Song-Dow Lee; Yung Min Lee; Ronald A. Leff; Marlise Anja Meier; Mieczslaw Midura; Bong Hee Park; Stojmil V. Petkov; Jana Planner; Fe Luna Rosas; Fikry K. Shihata; Anna Stanec; Dragan Vuckovic

Required Course

Third Year

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

Elective Options

Second Year

The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are con-

sidered, 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 the teaching about drugs which affect respiratory mechanisms. It participates in lectures, laboratory demonstrations and student seminars. 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. In this experience, students spend time in the operating rooms and laboratories seeing how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

Fourth Year

A clinical program of four or eight weeks either in the New York Hospital or in Memorial Hospital is offered to fourth-year students. The student is assigned to an attending anesthesiologist, whom he assists during preoperative visits, administering anesthesia, and in postoperative and recovery care. Teaching emphasis is placed on respiratory physiology, therapy, and resuscitation. The student is given increasing responsibility during the elective period. A four- or eight-week laboratory research program under the direction of Dr. Alan Van Poznak is also available. It offers experience in research methods in the study of anesthetic agents. Other research projects are offered at Memorial Hospital under the direction of Dr. William Howland.

Biochemistry

Professors

Alton Meister, Israel Rogosin Professor of Biochemistry, Chairman; Aaron S. Posner; Julian R. Rachele; Albert L. Rubin (Surgery)

Associate Professors

Roy W. Bonsnes; Esther M. Breslow; Jack Goldstein; Rudy H. Haschemeyer; Charlotte Ressler; Kurt H. Stenzel (Surgery); Daniel Wellner; Kenneth R. Woods

Assistant Professors

George W. Dietz, Jr.; Gordon F. Fairclough, Jr.; Helena Gilder (Surgery); S. Steven Hotta; Robert R. Riggio (Surgery); W. Bruce Rowe; Marian Orlowski; Edward T. Schubert; John F. Sullivan (Surgery); Suresh S. Tate

Instructor

J. Cheigh

Research Associates

J. Foster Betts; Norman Blumenthal; Ralph A. Stephani; Paul J. Tannenbaum; Vaira P. Wellner

Fellows

Sahib Ali; David S. David; Margaret Hochreiter; Anil G. Palekar; Karen E. B. Platzer; Luis Tapia; Paul P. Trotta

Assistants

Barbara Brennessel; Arthur J. L. Cooper; Leonard Estis; Anthony Ferrara; Edmund Hafner; Marilyn S. Horowitz; Mona D. Jensen; Lawrence M. Pinkus; Noel M. Relyea; Susan Lord Lundt; Paul G. Richman; Ronald Sekura; Mason Shen; Rosemary Soave; Jeffrey Stevens; Laura Tarantino; Paul Van Der Werf

Courses

Medical Biochemistry (Biochemistry 1M). This course, given in the first trimester, is designed for medical students and is chiefly concerned with the application of basic biochemical principles to medical problems. The material covered includes consideration of protein and nucleic acid structure, enzymes, metabolism, and protein synthesis and the relationship of these phenomena to human disease.

Medical Biochemistry (Biochemistry 2M). This course, designed for medical students, is given in the second trimester, and will present a continuation of material covered in Biochemistry 1M. In addition, special topics in biochemistry will be considered with emphasis given to medically-oriented subjects.

Introductory Biochemistry (Biochemistry 1A). This course, given in the first trimester, is designed for medical students who have not had a previous course in biochemistry. The course includes an introductory consideration of the structure of proteins and nucleic acids, enzymes, metabolism (of lipids, carbohydrates, amino acids, and nucleic acids), and the synthesis of proteins. The content is similar to many one-semester college courses in biochemistry and is intended for students with little or no background in biochemistry. There will be required reading assignments; the textbook "Biochemistry, The Molecular Basis of Cell Structure and Function" by Lehninger (Worth Publishers, Inc.) will be used.

General Biochemistry (Biochemistry 2A). This introductory course in biochemistry, designed for graduate students and qualified medical students, includes the topics listed above for Biochemistry 1A. The same textbook (Lehninger) will be used and the material in some chapters will be expanded. Biological, chemical, and physical techniques basic to biochemical research will be covered. A basic goal of the course is to achieve an understanding of the thought processes necessary to design and execute biochemical experiments, to interpret the data obtained, and to integrate the results with existing knowledge. Toward this end, a detailed consideration of specific biochemical research papers will be presented for one hour each week. It is anticipated that students who have taken a college course in biochemistry will have a meaningful familiarity with about one third of the material of this course.

General Biochemistry (Biochemistry 2B). This course is a continuation of Biochemistry 2A, and will be given during the second trimester.

Advanced Biochemistry. Lectures and conferences on recent developments in biochemistry for graduate students and qualified medical students. Hours and credits to be arranged.

Biochemical Preparations and Techniques. Laboratory work dealing with the isolation, synthesis, and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and intermediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged.

Research in Biochemistry. By arrangement with the chairman of the department.

Medicine

Professors

Alexander G. Bearn, Chairman; Edward H. Ahrens, Jr., Hilda Altschul Master Professor of Medicine; E. Lovell

Becker; William A. Briscoe; J. Robert Buchanan; Joseph H. Burchenal; Charles L. Christian; Farrington Daniels, Jr.; Ralph L. Engle, Jr.; Susan J. Hadley; Lawrence E. Hinkle, Jr.; Thomas Killip; Roland Harriman Professor of Medicine; E. Hugh Luckey; Walsh McDermott (Public Affairs in Medicine); W. P. Laird Myers; Ralph L. Nachman; Ralph E. Peterson; George G. Reader; Sidney Rothbard; Lawrence Scherr; J. James Smith; Martin Sonenberg; David D. Thompson

Clinical Professors

Benjamin Alexander; Jeremiah A. Barondess; Vincent P. Dole; Murray Dworetzky (Allergy); Aaron Feder; William H. Kammerer; B. H. Kean (Tropical Medicine); Allyn B. Ley; William J. Messinger; Neal Miller (Psychology); Carl Muschenheim; Douglas P. Torre (Dermatology); Robert F. Watson

Adjunct Professor

Attallah Kappas

Associate Professors

Donald Armstrong; David V. Becker; Richard S. Benua; Norman Brachfeld; Bayard D. Clarkson; Hartwig Cleve; B. Shannon Danes; Martin Gardy; Eugene L. Gottfried; Stephen J. Gulotta; Peter C. Harpel; Henry O. Heinemann; Raymond W. Houde; Norman B. Javitt; Anne C. Kimball (Microbiology); Irwin H. Krakoff; Martin Lipkin; Stephen D. Litwin; Daniel S. Lukas; Aaron J. Marcus; Willibald Nagler; Herbert F. Oettgen; Margaret J. Polley (Immunology); Richard B. Roberts; Brij B. Saxena (Biochemistry); Paul Sherlock; Maurice E. Shils; Gregory W. Siskind; Peter E. Stokes; Parker Vanamee

Clinical Associate Professors

Seymour Advocate; Lucien I. Arditi; Samuel C. Atkinson; Lloyd T. Barnes; Eugene L. Bodian; John L. Brown; Henry A. Carr; Aaron D. Chaves; William N. Christenson; Eugene J. Cohen; Jerome A. Covey; Thomas J. Degnan; John W. Dougherty; Robert E. Eckardt; William J. Eisenmenger; Borje E. V. Ejrup; Henry R. Erle; Arthur W. Feinberg; John T. Flynn; William T. Foley; Alvin H. Frieman; Constance Friess; William Geller; John M. Glynn; Robert B. Golbey; George W. Gorham; Keith O. Guthrie; Leonard L. Heimoff; Richard A. Herrmann; Lawrence B. Hobson; Raymond B. Hockman; Melvin Horwith; Abraham S. Jacobson; J. Harry Katz; George L. Kauer, Jr.; Frederic T. Kirkham, Jr.; Herbert Koteen; John S. LaDue; Jerrold S. Lieberman; Mack Lipkin; Edward J. Lorenze; Donald Margouloff; Klaus Mayer; Irwin Nydick; Mary Ann Payne; Martin Perlmuter; R. A. Rees Pritchett; Jack Richard; Edgar A. Riley; William C. Robbins; Thomas N. Roberts; Bernard Rogoff; Isadore Rosenfeld; Ernest Schwartz; Arthur W. Seligmann; Richard T. Silver; Lawrence S. Sonkin; Herman Steinberg; Richard W. Stone; Alphonse E. Timpanelli; Maurice Tulin; Aaron O. Wells; Sidney A. Winawer; A. Lee Winston; John L. Ziegler

Visiting Associate Professor

Ian Percy-Robb

Assistant Professors

Karl P. Adler; Diana C. Argyros; Susan T. Carver; Morton I. Coleman; Frank G. DeFuria; Mark Degnan; Eleanor E. Deschner (Radiobiology); Alexandra B. Dimich; Monroe D. Downing, Jr.; George A. Falk; Niall D. C. Finlayson; Timothy S. Gee; Jose L. Granda; Joseph G. Hayes; Yashar Hirshaut; Victor R. Hrehorovich; James R. Hurley; Marian Isaacs; Warren D. Johnson, Jr.; Thomas C. Jones; Lawrence J. Kagen; Nadya L. Keller (Biochemistry); Thomas J. Kindt

(Human Genetics); Thomas K. C. King; Harvey Klein; Susan A. Kline; Charles S. LaMonte; Robert D. Leeper; Robert W. Lightfoot; Michael D. Lockshin; Daniel G. Miller; John B. Morrison; Eladio A. Nunez (Physiology); Manuel Ochoa, Jr.; Paul E. Phillips; Premila Rathnam (Biochemistry); Arleen Rifkind; Edmund O. Rothschild; Robert A. Schaefer; Stephen S. Scheidt; Ellen Scheiner; Raymond L. Sherman; James P. Smith; J. Kelly Smith; Charles Smithen; Charles R. Steinberg; Marguerite P. Sykes; Allice Ullmann (Social Work); Gary I. Wadler; Babette E. Weksler; Marc E. Weksler; Gary Wilner; Michael J. Wolk; Samuel D. J. Yeh; Charles W. Young; Lowell S. Young

Clinical Assistant Professors

Henriette E. Abel; Robert R. Abel; William A. Anderson; Ralph A. Baer; Robert J. Baliff; Curtis H. Baylor; Bry Benjamin; Hermina Z. Benjamin; Mordecai Berkun; Carl A. Bernsten, Jr.; Harry Bienenstock; Robert T. Binford, Jr.; Gabriele Bondi; Robert G. Brayton; Maxim Brettler; Donald J. Cameron; Vincent A. Cipollaro; Hugh E. Claremont; Melva A. Clark; Irwin R. Cohen; Robert L. Collier; C. Stephen Connolly; Francis P. Coombs; Denton S. Cox; Jean A. Cramer; Marion Davis; Monroe T. Diamond; Carolyn H. Diehl; Adrian L. Edwards; Alvin N. Ehrlich; Ralph A. Eskes; Edwin Ettinger; Thomas J. Fahey, Jr.; John A. Finkbeiner; Claude E. Forkner, Jr.; Mario Gaudino; David L. Globus; Howard Goldin; Michael J. Goldstein; Charles H. Goodsell; Ernest J. Greenberg; Roger P. Hand; Marshall J. Hanley; Ann C. Hill; Donald W. Hoskins; Norman J. Isaacs; Vincent A. Joy; Anna Kara; Irwin Katzka; Richard J. Kaufman; Donald S. Kent; Neil C. Klein; Mary Jeanne Kreek; Martin Kurtz; Mortimer J. Lacher; Harold L. Leder; Burton J. Lee, III; Leo R. Lese; Marjorie G. Lewisohn; Sonia D. Lindo; Luther B. Lowe, Jr.; Norton M. Luger; Nicholas T. Macris; Mark R. Marciano; John P. McCann; George A. McLemore, Jr.; Allen W. Mead; David W. Molander; Marie E. Nyswander (Psychiatry); Leroy Pedersen; Richard Perkins; Francis S. Perrone; Aurelia Potor; John H. Prunier; Norman Rosenthal; Albert M. Ross; Emmanuel Rudd; Charles M. Samet; Lawrence Scharer; Seymour Schutzer; Leonard H. Schuyler; Frank A. Seixas; Charles Sheard, III; Gerald M. Silverman; Harry A. Sinclair; Henry A. Solomon; Herbert J. Spoor; Peter H. Stern; Lawrence Strauss; Robert Thoburn; Robert J. Timberger; Leonard Vinnick; Louis J. Vorhaus; Lila A. Wallis; Clinton G. Weiman; Howard S. Weiss; Jay M. Weiss (Psychology); Paul C. White, Jr.; Carl Wierum; Robert J. Winchester

Visiting Assistant Professor

Dilson Jose Fernandes

Instructors

Hamid A. B. Al-Mondhry; Gary Birnbaum; Thomas R. P. daCruz; Dennis L. DeSilvey; Joseph A. Frascino, Jr.; Julianne Imperato (Endocrinology); Eric A. Jaffe (Hematology); Mark H. Kaplan; Young Tai Kim (Allergy and Immunology); William F. Keane; Robert C. Kurtz; Vellore Padmanabhan; Carl M. Pinsky; Lillian M. Reich

Clinical Instructors

Albert A. Abbey; Eugene M. Aronow; Robert S. Ascheim; Jens R. Bakke; Fred H. Block; Michael J. Bradford; Samuel H. Brethwaite; Eugene V. Calvelli; David E. Cohen; Myron W. Conovitz; Lester R. Corn; Alan H. Covey; C. Pinckney Deal, Jr.; Edgar J. Desser; Klaus Dittmar; Joseph C. Dreyfus, III; Robert L. Erickson; Kenneth A. Ewing; Ernest R. Esakof; Stanley Farber; Robert Geller; David Gluck; Joel S. Gitlin; Burton H. Goldberg; Margery Golden; Victor R. Grann; Martin I. Heilbraun; Teng-Lung Hsu; Helene Holtz; Pascal J.

Imperato; Lawrence A. Janoff; Thomas P. Jernigan; Seymour Katz; Ludwig Klein; Raoul Kloogman; Irving W. Kramer; Lawrence S. Kryle; Martha C. Larsen; Martin Levine; Marc Lichtman; Marianne Lindner; Kurt Link; Francis C. Losito; Lionel U. Mailloux; John F. Marchand; Robert S. Martin; I. Ira Mason; Milton Masur; N. Eileen McGrath; Donald G. McKaba; Howard A. McManus, Jr.; Arthur E. Mirkinson; Gerald P. Mirrer; Robert R. Nenner; Martin Nydick; Perry A. Orens; Leonard D. Pace; George E. Paley; Vyda K. Petzold; Raymond E. Phillips; Gary A. Piccione; Sanford M. Reiss; Charles Ressler; Carl S. Rosen; Alan S. Rosenberg; Melvin Rubenstein; Paul C. Schwartz; David G. Schwartz; Benson H. Shalette; Malcolm G. Smilay; Alan G. Snart; Louis M. Soletsky; Paul G. Tolins; Frank A. Tomao; Louis B. Turner; Thomas L. Tuttle; Robert J. Ulberg; J. Marvin Wertheim; Kathryn A. Whelan; Melvin L. Wiedman; Stanley S. Yormak

Research Associates

Bruce E. Belshaw (Endocrinology); Shigeru Fujita (Human Genetics); Philip C. Holzberger (Dermatology); Thomas Hutteroth (Human Genetics); Harold Torsvik (Human Genetics)

Fellows

Zalmen A. Arlen; Daniel J. Arnold; Steven A. Atlas; Michael Bean; Kalman J. Berenyi; George E. Berk; William A. Blattner; Joel M. Blumberg; Richard S. Bockman; Richard S. Bodanes; Theodore A. Brasitus; Barry D. Brause; Frank J. Brescia; Thomas Brescia; James A. Brown; Steven J. Burakoff; Dominic Cappilleri; Delvyn C. Case; Anthony J. Casella; Lars L. Cederqvist; Yolanda Alt Cestero; Edgar Wai-Kin Cheng; Eugene Chin; Nicholas Chiorazzi; James P. Christodoulou; James R. Cohen; Richard C. Connors; Martin B. Cooper; Gerald J. Cordani; John R. Crouse, III; Alfred C. DeClutis; Paul T. Dekker; Alfred L. DeJager; Barbara A. DelliBovi; Beverly F. Deren; Richard B. Devereux; David C. Dodge; Brian M. Dorsk; Michael Dosik; David McL. DuBose; Robert A. Eisenberg; John P. Farry; Lewis M. Feder; Kyle McL. Fink; Joseph I. Franco; William B. Freedman; Steven A. Friedman; William H. Frishman; Kenneth A. Geller; Manizheh Ghaem-Panah; Stuart W. Gillim; William W. Gough; Linda D. Green; John P. Hanson; Valee Harisdangkul; Eloise M. Harman; James R. Heiby; Mary T. Herald; Kenneth J. Herwig; Francis W. Iacobellis; Daniel C. Ihde; John J. Janick; Karen L. Kaplan; Spencer L. Kulick; Aron Lantz; Frederick E. Lewis; Charles J. Lightdale; Por K. Lin; Stephen S. Lipnik; Carl M. Lieberman; Thomas J. Maley; Charles G. Maresh; John R. Middleton; Philip B. Miner, Jr.; Peter A. Monoson; Anne Moore; Elizabeth G. Muss; Jack E. Nissim; Alice O'Shaughnessy; Angel J. Olazabal; Théodore P. Pincus; Mark W. Pasmantier; Harvey B. Pollak; Gerald L. Posner; Anthony F. Posteraro, Jr.; Michael E. Ray; Barry A. Reiter; Corey N. Rigberg; Timothy L. Rodgers; Frank W. Rynning; George G. Sahakian; Elliot I. Salenger; Ronald J. Saykaly; John C. Schaefer; Michael A. Schleider; Steven M. Schreibman; Eugene Schreiner; Jerome J. Schnapp; John J. Sergeant; Kanta Shah; Samuel W. Shoen; Olga Silway; Roger P. Simon; Carol F. Singer; Marjorie L. Slankard; Adam N. Steinberg; Richard Stern; Gregory F. Sullivan; Eric J. Thomas; Steven L. Turman; Jack Waxman; Barry Weber; Eric D. Weston; Thasia G. Woodworth; Carolyn F. Witsett; Robert E. Wittes; Wai Fong Yeung; Neil P. Zaubner; Robert F. Zager

Research Fellows

Barry R. Dworkin; Mildred G. Goldberg; W. Laurence Marsh; Jerome L. Meyer

The program for the Department of Medicine is based on a number of 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 a laboratory or clinical level. (3) The scope and limitations of medicine are best revealed through the demands and responsibilities of patient care.

It is evident that a large number of options are open to those pursuing a career in medicine; a diversity which 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 be competent and content in his career choice, and that he 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 him thoughtfully to explore and evaluate 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 pathophysiological approach will vary from a study of the 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 his experiences, the student will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

Required Courses

First Year

Introduction to Physical Diagnosis. A correlative course with Gross Anatomy emphasizing interrelationships of structure and their practical clinical application. The student is instructed in the use of a variety of instruments including the stethoscope, ophthalmoscope, and otoscope.

Health Care Systems. The course provides an analysis of existing health care systems through the study of (1) the organization of medical practice; (2) the role of the hospital in patient care and its relationship to the community; (3) the role of neighborhood health centers; (4) the economics of health care; and (5) the proposals for modification of current health care systems.

Introduction to Interviewing—The Patient-Doctor Relationship. The student is introduced to the techniques and problems of interviewing as a means to study the fundamental aspect of health care delivery—the relationship between doctor and patient. Students interview patients focusing on the experiences and attitudes of patients toward doctors and medical care. The interviews are discussed in tutorial groups with the clinical faculty.

30 Microbiology

Second Year

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

Physical Diagnosis. The methods of physical examination and history-taking are taught in lectures and demonstrations which utilize audiovisual aids. In addition, students in small groups further develop their skills in clinical examination under the direct supervision of a tutor. Patient examinations are conducted at The Cornell Cooperating Hospitals: New York, Memorial, and North Shore.

Pathophysiology. The course is designed to correlate the pathophysiology of the various organ systems with associated symptoms, physical signs, and diagnostic procedures. Presentations include lectures and illustrative case studies which are discussed within small groups. Instruction is also given in the commonly used laboratory techniques to examine blood and urine.

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 is an integral member of a medical team that is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records his findings. His 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. He actively participates in the continued care of the patient in part to verify or alter his initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by lectures and by the large number of conferences and seminars regularly held by the Department.

Elective Options

Over fifty electives are offered throughout the four years. This 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

William F. Scherer, Chairman; William M. O'Leary

Associate Professors

Robert W. Dickerman; Donald W. Mackenzie; Laurence B. Senterfit; Dieter H. Sussdorf

Assistant Professor

Michael J. Lyons

Instructors

James L. Beebe; Zsolt P. Harsanyi

Research Associate

Jose Ernesto Navarro

Assistants

Jill M. Adler; Roberta B. Carey; Khatchik Deuvletian; Nicola G. Donnelly; Dana M. Fowlkes; David Gibbs; George Karpinsky; Richard Kasczak; Paul Le Blanc; Mary Motyl; Bette Anne Pancake; Lillian D. Rabbani; Lesley

A. Radov; Laura K. Seymour; Charles Seymour III; William Suling

Required Course

Second Year

Microbiology and an Introduction to Infectious Diseases.

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, a limited number of opportunities are available in laboratories of the Department of Microbiology under guidance of individual faculty. To provide time for this research, the student will be excused from presenting a seminar and from certain laboratory sessions selected by an adviser.

Elective Options

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

Microbial Chemistry and Physiology. Yearly during third trimester. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physicochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, 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 metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

Advanced Immunology. Every second or third year during third trimester. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody

reactions. Minimum prerequisites for credit are introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable. Dr. Sussdorf.

Advanced Virology. Offered every second and third year during third trimester. Two lecture-seminars and laboratories weekly. This course presents modern concepts and techniques of virology, including consideration of the following topics: physical and chemical properties of viruses; structure-function relationships; viral genetics; the molecular biology of viral morphogenesis; the molecular and cell biology of viral infections, viral oncology; viral infections at the level of organism and population; 'slow' viruses, newer infectious agents (viroids); and the interferon system. Completion of second year course in Microbiology is a prerequisite. Dr. Lyons.

Advanced Microbial Genetics. Selected concepts of molecular genetics are examined using both prokaryotic and eukaryotic microorganisms as models. Topics include intra- and interchromosomal complementation, mitotic and meiotic recombination, genetic control mechanisms, gene conversion, polyploidy and aneuploidy, genetic interference, mechanisms of suppression, and polarity. The course is designed to elucidate the genetic methods available for studying hereditary material. Third trimester: one lecture and selected laboratory sessions weekly. Dr. Harsanyi.

Advanced Mycology. Every second or third year during third trimester. Two lectures weekly and two laboratory sessions per week for five weeks. In the lectures, initial consideration is given to gross vegetative organization of fungi, relating cellular and subcellular structure and function. In addition to physiological and morphological characteristics of microscopic fungi, mechanisms of biosynthesis and energy metabolism are described in reference to the interaction between fungi and their environment. Other topics considered include natural and induced variation of fungi, fungi as tools of genetic study, biochemical and traditional systematics, bioassays and steroid transformations. Various associations between fungi and man, including the role of fungi as sources of important microbial products, as causes of spoilage and destruction, as pathogenic and as toxigenic and allergenic agents of human disease are also considered. Laboratory exercises are designed to provide familiarity with special mycological procedures, with experience in the handling of fungi as genetic models, bioassay techniques, and special isolation and identification methods of pathogenic fungi from clinical materials. Previous experience with mycology is desirable but not essential.

Advanced Diagnostic Microbiology. Alternate years during third trimester. Two lectures and two laboratories weekly. The lecture and laboratory sessions will acquaint the student with the procedures used and technique of management of a clinical microbiology laboratory. Emphasis will be upon developing the student's capability in the isolation and rapid identification of organisms from various types of clinical specimens. Liberal use will be made of clinical materials available through the diagnostic laboratories of the New York Hospital.

Clerkship in Diagnostic Microbiology. Yearly. The opportunities of a clerkship in the diagnostic microbiology laboratories of the New York Hospital are available to students with an interest in this area. The student would receive training and practical experience

in diagnostic microbiology as it is practiced in a large hospital laboratory.

General Microbiology is offered every second or third year by the personnel of the Field of Microbiology at the Medical College and the Sloan-Kettering Division. It is intended to provide a wide-ranging general knowledge of the subject for students minoring in microbiology and for nonminors who want a background in the subject. It is not primarily intended for students majoring in the subject who already have an extensive background from undergraduate work. Two-hour lectures are given weekly during both semesters. Aspects of microbiology covered include fundamental procedures, microbial growth and physiology, genetics, immunology and serology, virology, plant and animal pathogens, and applied microbiology. Auditors from all fields and divisions are welcome.

Arthropod-Borne Virology and Related Ecology and Epidemiology. This course is divided into five sections:

1. Principles of arthropod-borne virology
2. Entomology in relation to arthropod-borne virology
3. Ornithology in relation to arthropod-borne virology
4. Mammalogy in relation to arthropod-borne virology
5. Human and veterinary diseases caused by arthropod-borne viruses

Section 1 is given at Cornell University Medical College usually during late June and early July, and sections 2-5 at field laboratory sites in Central America during late July and August. Section 1 and one or two others are offered each summer. The faculty is from Cornell and collaborating institutions in Central America. Each section follows a syllabus and consists of literature review and analysis at libraries in the Cornell Medical College and elsewhere in New York, including the American Museum of Natural History, and seminars and practical experience at the field laboratory. Classes are limited to six. The following are eligible at the New York City campus of Cornell University: graduate students majoring or minoring in microbiology, post-doctoral fellows in microbiology, medical students with special interest; at the Ithaca campus of Cornell University: graduate students majoring in entomology or fields of vertebrate zoology, veterinary students with special interest, undergraduate students beyond the third year with special interest and sufficient biology background. Students at other universities or research institutions will be admitted under the same conditions as Cornell students provided spaces are available.

Fourth-Year Elective Options

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 (Dr. Scherer)
- Teaching of Microbiology (Dr. Scherer)
- Research in Microbiology
- Clerkship in Diagnostic Microbiology (Dr. Senterfit)
- Advanced Immunology (Dr. Sussdorf)
- Microbiology Seminar (Dr. Lyons)
- Microbial Chemistry and Physiology (Dr. O'Leary)
- Advanced Mycology (Dr. Mackenzie)
- Advanced Diagnostic Microbiology (Dr. Senterfit)
- Advanced Virology (Dr. Lyons)
- General Microbiology (Drs. Hutchison and O'Leary)
- Microbial Ecology (Drs. O'Leary and Beebe)
- Microbial Genetics (Dr. Harsanyi)

For detailed descriptions of these options, the student is referred to the *Catalog of Electives*.

Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary

fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical college curriculum. During this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of the New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year under the microbiology fellowship can be listed on a curriculum *vita*, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

Neurology

Professors

Fred Plum, Anne Parrish Titzell Professor of Neurology, Chairman; Eric H. Lenneberg (Psychology); Fletcher H. McDowell; Jerome B. Posner; Donald J. Reis

Adjunct Professor

Richard W. Hornabrook

Associate Professors

H. Richard Beresford; Henn Kutt; Paul R. McHugh; Hart deC. Peterson

Clinical Associate Professors

Martin A. Green; Thomas H. Guthrie; Gerald H. Klingon

Assistant Professors

Gary Birnbaum; Norman L. Chernik; Thomas E. Duffy (Biochemistry); William R. Shapiro; Gail E. Solomon; Richard D. Sweet; Peter Tsairis; Claude G. Wasterlain; Philip H. Zweifach (Ophthalmology)

Clinical Assistant Professors

Walter A. Camp; Raymond H. Coll; Irwin D. Schlesinger; Lewis N. Travis

Instructors

John J. Caronna; David E. Dine; Nobataka Doba; Richard N. Edelson; Tong Hyub Joh (Biochemistry); David E. Levy; Madelyn Olson; Robert C. Vannucci; Dean F. Young

Research Associates

David C. Howse; Leif G. Salford; Fernando Vergara-Edwards; Raif Yanney

Fellows

Michael Baten; Ira S. Black; Robert C. Collins; George C. Ebers; Steven Fish; Kathleen E. Foley; Allan Jacobs; Jeffrey Kessler; Jes Olesen; David A. Rottenberg; Mahendra Somasundaram; George A. Vas

The Department of Neurology has three inseparable responsibilities, patient care, teaching, and research. The faculty supervises the care of patients with neurological diseases at all four of the major teaching hospitals that make up the Cornell Medical Community; The New York Hospital, Memorial Hospital, the Hospital for Special Surgery, and the North Shore Hospital. This rich exposure to patients with many different types of diseases and the rewarding experiences of providing care to patients from many geographical and social backgrounds is shared by undergraduate students and those training in the specialty of neurological medicine. The research laboratories and programs of the Department are located both within the geographical confines of the school itself and at the several hospitals. These laboratories conduct both fundamental and clinically applied programs seeking the basic answers to neurological diseases as well as new ways to improve the delivery of already available treatments to patients. Among others, the research projects include the search for, and application of, 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 rage and aggression, and a search for basic chemicals that will improve the anticonvulsant management of patients with epilepsy.

Two goals guide the teaching of students. One is to encourage them to learn diagnosis and treatment by gaining a thorough knowledge of the specific physiology and biochemistry of the major neurological diseases. The other is to transmit some of our beginning understandings of the way the brain functions as an adaptive organ regulating both man's internal milieu and his outward behavior. A few clinical-physiological demonstrations are conducted in the first year, but formal teaching begins in the second year and continues thereafter.

Required Courses

Second Year

An introductory course in neurological diagnosis is given 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 of abnormal signs and symptoms. There are weekly bedside experiences with the students in pairs examining patients with neurological disease under an instructor's guidance.

Third Year

A one-month clinical clerkship is spent on the neurological pavilion of either the New York Hospital or the 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 house staff and tutors. Extensive reading is encouraged, both to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems where current research is making important contributions. Daily seminars in psychiatry continue throughout the clerkship, reinforcing

in the student's mind the close relationships between psychological disorders and brain dysfunction.

Elective Options

A variety of electives in either clinical work or laboratory research are available to fourth-year students. Dr. McHugh provides an advanced seminar in behavioral topics; Dr. Plum gives the same on general neurological subjects. In-patient clerkships are available for whole-time work. Dr. McDowell provides a varied out-patient elective which guarantees the student a contact with 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

Fritz Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman; J. Michael Bedford (Reproductive Biology); Stanley J. Birnbaum; Elmer E. Kramer; John L. Lewis, Jr.; Brij B. Saxena (Endocrinology)

Clinical Professors

Hugh R. K. Barber; E. William Davis, Jr.; Arnold N. Fenton; William P. Given; Graham G. Hawks; Roy Hertz (Endocrinology); Donald G. Johnson; Robert Landesman; Richard A. Ruskin; George Schaefer; William J. Sweeney, III; Howard J. Tatum

Associate Professors

Carl G. Beling; Roy W. Bonsnes (Biochemistry); Hortense M. Gandy (Endocrinology); Leon I. Mann; Irwin R. Merkat; Selma Silagi (Genetics)

Clinical Associate Professors

Myron I. Buchman; Donald J. Casper; William F. Finn; B. Milton Garfinkle; J. Conrad Greenwald; S. Theodore Horwitz; Frederick E. Lane; Stewart L. Marcus; Frederick W. Martens; Melville A. Platt; Samuel F. Ryan; Eugene D. Schwartz; E. Thomas Steadman; Lee F. Vosburgh; Robert E. Wieche

Visiting Associate Professors

Walter L. Freedman; Staffan Nordqvist

Required Courses

First Year

Introduction to Biology of Human Reproduction. During the last trimester, a series of eleven sessions is held for the entire first-year class as an introduction to the biology of human reproduction. The subjects include a review of reproductive physiology in the male and female, endocrinology of pregnancy, fetology, male and female infertility, family planning, and world population problems.

Second Year

Orientation and Introduction to Gynecology Examination. During the last trimester of the second year, one two-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 Practical Obstetrics and Gynecology. Combines theoretical instruction with practical work in

obstetrics and gynecology. Each student will study in the Lying-In Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor and puerperium; and the etiology, pathology, and diagnosis of diseases of the genital organs.

During the remainder of the period, the student will act as a clinical assistant in the obstetrical and gynecological departments. This includes activities in clinics and in the labor and delivery suite. The student will participate in the prenatal care of patients and attend them in labor and delivery. Small seminars are held during this time to supplement the didactic instruction. A conference is conducted each morning from 8 to 9 a.m. for those students assigned to the delivery floor. Concomitant with this program, all students will attend the subcourses listed below:

Course I. Obstetrical and Gynecological Pathology.

Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Mondays, 9 a.m. to 12 noon.

Course II. Obstetrics and Perinatal Medicine. An overview of obstetrics is presented within the framework of the modern techniques of fetal supervision and care for the "high risk" patient. Specific clinical disorders such as repeated pregnancy wastage, erythroblastosis fetalis, and the anemias and toxemias of pregnancy, are presented in detail. Monday 1:00 to 3:30 p.m.

Course III. Gynecological Oncology. Instruction in and discussion of malignant neoplastic disease and its early recognition; the basic concepts of radiation therapy of malignant disease in the female generative tract. The genital organs and their specific malignancies including trophoblastic diseases are discussed individually. Friday 9:00 to 11:00 a.m.

Course IV. Reproductive Biology. The endocrine principles of the normal menstrual cycle are presented in detail as a basis for understanding functional and dysfunctional conditions which affect women at the various stages of life. Study of the endocrinology of pregnancy and labor is directed toward a better understanding of the physiology and pathology of pregnancy, particularly prematurity. Friday 2:00 p.m. to 3:00 p.m.

Departmental Staff Conferences and Rounds

A weekly staff conference is held on Mondays, from 4:00 to 5:30 p.m. Rounds on Fridays, from 11:30 a.m. to 1:00 p.m. Symposia and instructive case reports are presented with student participation.

Seminars in Reproductive Physiology

Seminars embracing current aspects of the basic sciences as applied to obstetrics and gynecology are held once a month.

Elective Options

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

Ophthalmology

Clinical Professors

Donald M. Shafer, Acting Chairman; Edward A. Dunlap

Clinical Associate Professors

Stuart I. Brown; Herbert Katzin; Harvey Lincoff; Walter L. Peretz; Arnold Turtz

Clinical Assistant Professors

Thomas Cherubini; Brian Curtin; Elizabeth F. Constantine; Raymond Harrison; David Karlin; Ira Kaufman; Peter Laino; Alfred Mamelok; Margaret Obear; Richard Raskind; Stuart S. Snyder; Philip Zweifach

Instructors

Richard Hook; Thomas Poole

Clinical Instructors

Mark Lieberman; Irene Llovera; Michael Tragakis; Suzanne Veronneau

Fellows

Paul Foraste; Bartly Mondino; Richard Muchnick; Peter Odell; Martin Smithline; James Soorani

Research Fellows

Stephen Bloomfield; Michael Goldbaum; Carol Hook; Hong-Zin Lin

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 sixteen groups which participate in three weekly afternoons of presentation, discussion and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology. The entire series rounds out the most frequent ophthalmic pathological entities.

Elective Options

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. Then the student observes the actual surgery and follows through with postoperative care and discussions with the resident staff. During their elective the student can also observe in the various ophthalmic research units. Each Thursday the student attends teaching rounds with the resident and attending staff presenting interesting and problem cases for detailed review and discussion.

Otorhinolaryngology

Professor

James A. Moore, Acting Chairman

Clinical Associate Professors

James M. Holman; George C. Mueller; John R. Williams

Clinical Assistant Professors

John H. Seward; John F. Struve

Clinical Instructors

Frank W. Farrell; William F. Flynn; Suzanne Howe; Mary H. Markham; Norman J. Pastorek

Instructors

W. Shain Schley; Robert W. Selfe

Fellows

Lloyd Dropkin; Petar Jovanovic; Inocencio Kho

Required Courses

Second Year

Instruction begins in the third term of the second year. Three sessions of two hours each are provided in otorhinolaryngologic problems as part of the course in Physical Diagnosis. There are approximately 30 students in each of the three instructional periods.

Third Year

The third year is divided into four terms. In each term, six students spend three periods of three hours each in the otorhinolaryngology out-patient clinic. These sessions are held on Tuesday afternoons from 1:00 p.m. to 4:00 p.m., in the out-patient clinic. The students gain experience with patients who are being considered for surgical therapy. The students work up the patients, taking full histories and performing physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending otorhinolaryngologist. The differential diagnosis, diagnostic procedures and therapy are discussed. Each patient is seen on return visits by the same student in order that the results of the diagnostic procedure and clinical course may be observed firsthand and definitive therapy decided upon in consultation with an otorhinolaryngology staff member. Informal lectures are given at the beginning of the three-hour afternoon sessions. To supplement these informal lectures, interesting cases are selected and presented to the group for examination and informal discussion. Every attempt is made to use not only clinic patients but in-patients as well for these case presentations. In addition, two 1-1/2 hour seminars are given each term to each group of twenty four students.

Elective Options

Fourth Year

Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of 7 weeks or 14 weeks. 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 out-patient clinic, and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff. The student also has the opportunity to observe various otorhinolaryngologic operating procedures in the operating room. He also attends the weekly and monthly conferences. Prerequisite: Courses in the second and third year. The advisers to students planning this fourth year elective are Dr. James A. Moore and Dr. James M. Holman.

Pathology

Professors

John T. Ellis, Chairman; Patrick J. Fitzgerald; John G. Kidd; Robert C. Mellors; George E. Murphy

Clinical Professors

Aaron Kellner; Elmer E. Kramer

Visiting Professor

Milton Helpner

Associate Professors

Carl G. Becker; Peter G. Bullough; M. Renate Dische; George F. Gray; William Insull, Jr.; C. Richard Minick; Charles A. Santos-Buch; John F. Seybolt

Clinical Associate Professors

Stanley Gross; Alfred M. Prince; Cyril Solomon

Assistant Professors

Daniel R. Alonso; Edwin P. Bassett; Margaret H. S. Clements; Edward L. Coffey; Joseph R. Mirra; Janet A. Mouradian; Robert S. Porro; Myron Susin; Carolyn W. Watson; Jack F. Woodruff

Clinical Assistant Professors

Arthur S. Carlson; Theodore Robertson

Instructors

Norman L. Chernick; Eun Sook Cho; Andrew H. Littell; Patricia Walmsley; Carl F. Wolf

Fellows

Gabriele Baldini; Beverly J. Dahms; William Goodhue; Nicholas Hardin; Bruce C. Horten; Leroy Riddick; Leroy R. Sharer; Thomas W. Smith; Edward B. Sussman; Antonio R. Teixeira; Takashi Yoshiki

Assistant

Charlotte Street

The Department of Pathology occupies two floors of the central part of the College building. It is located above the library and in immediate contact with the Hospital. The autopsy room is in the connecting wing between the College and the Hospital. The teaching is largely concentrated on the third floor where the autopsy room and demonstration room for pathological anatomy is located. Class rooms 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 museum contains a carefully selected collection of specimens representing most of the common and many of the more unusual pathological lesions. In addition to this mounted collection, a considerable amount of constantly changing gross material is available for study by the students.

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

Required Courses

Second Year

General and Systemic Pathology. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with cell injury, inflammation, and repair. 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 Options

Second Year

During the spring term, time is utilized for elective courses in pathology, for research or for independent study. Electives are offered in post-mortem 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, musculo-skeletal pathology, neuropathology, pediatric pathology, renal pathology, cardiac pathology, anatomic pathology, computer application in pathology, and laboratory medicine. See *Catalog of Electives* for description of courses, prerequisites, times and responsible faculty members.

Pediatrics

Professors

Wallace W. McCrory, Chairman; Peter A. McF. Auld; Mary Allen Engle; M. Lois Murphy; Maria I. New; Mervin Silverberg

Clinical Professors

Virginia Apgar (Teratology); Henry P. Goldberg; Lee Salk

Associate Professors

Kathryn H. Ehlers; Margaret C. Heagarty; Aaron R. Levin; John E. Lewy; Wan Ngo Lim; Denis R. Miller; Hart deC. Peterson; John C. Ribble; Alfred L. Scherzer; Charlotte T. C. Tan

Clinical Associate Professors

Fred H. Allen, Jr.; Charles H. Bauer; James L. German, III; Martin J. Glynn; Margaret T. Grossi; James Q. Haralambie; Hedwig Koenig; Florence N. Marshall; Robert G. McGovern; Virginia C. Mitty; Bertrand L. New; S. Frank Redo; David I. Smith; Peter S. Tolins

Assistant Professors

Barbara S. Ashe; Virginia C. Canale; Frank G. deFuria; Mark Degnan; Zulema F. Fischbarg; Angela C. Gilladoga; Mahroo Haghbini; Lawrence Helson; Margaret

W. Hilgartner; Alfred N. Krauss; Lenore S. Levine; Arleen B. Rifkind; Edward T. Schubert; Madoka Shibuya; Gail E. Solomon; Norma W. Sternberg; Thornton A. Vandersall; Patricia H. Winchester

Clinical Assistant Professors

Anastasios A. Anastasiades; Richard R. Bass; Otto E. Billo; Renee M. Brilliant; Mary C. Buchanan; Walter T. Carpenter; Benedict S. Caterinicchio; Leon I. Charash; Alan P. DeMayo; Duane L. Dowell; Leonard I. Ehrlich; Philip W. H. Eskes; Diane B. Gareen; Margaret M. Kugler; Luther B. Lowe, Jr.; Irving H. Mauss; Marion McIlveen; Karl Neumann; Rebecca F. Notterman; Michael Orange; Olive E. Pitkin; Virginia E. Pomeranz; Irwin Rappaport; Reuben H. Reiman; Melvin S. Rosh; William T. Seed; Josef Soloway; Stanley S. Zipser

Instructors

William T. Dahms; Fereshteh Ghavimi; David J. Louick; Gilda Morillo-Cucci; Gerald Rosen; Elizabeth W. Welker

Clinical Instructors

Marvin Boris; Gloria T. Edis; William L. Greenberg; Albert C. Holtzman; Alberto Laciou-Petrucelli; Roy H. Lieberman; Frank N. Medici; Jean-Jacques Saranga; Maurice A. Shinefield; Beatrice S. Slater; Joel Steckelman; Ralph Stein; Stuart H. Young

Research Associate

Belle Granich

Fellows

Soja P. Bennett; Michael Z. Blumberg; Franklin G. Boineau; Edward M. Butler; Ludivinia G. Caballero; Manju Chandra; Sonia B. Cruz; Francix X. D'Andrea; Brian R. Denham; Pavel Fort; Elba J. Garcia; Ronald J. Garutti; Patricia-Jane V. Giardina; Suat Cheng Go; Carol L. Kamm; Elizabeth T. Khuri; David B. Klain; Paul K. Kleinman; Sigrun Korth-Schutz; Mary K. Kukulich; Uri Lavy; Vipul Mankad; Eucharía M. McCarthy; Robert G. Meny; John E. O'Loughlin; Karen Ottesen; Birgitta E. Peterson; Diane J. Pincus; Arthur S. Raptoulis; Paul Saenger; Anchulee S. Sanmaneechai; Emily Ann Schmalzer; Carol B. Schulman; Joseph D. Schulman; Jagdish K. Sidhu; Donald R. Skog; Steven J. Stravinski; Somnuk Suwansirikul; Daniel J. Tay; Ernest B. Visconti; Russell W. Walker; Winston C. Wong; Shiann Jhy Wu

Research Fellow

Donna D. Shanies

Lecturer

Ralph W. Gause

Required Clerkship

Third Year

The major undergraduate teaching effort of the Department of Pediatrics occurs in the third year. In a period of 7-1/2 weeks a required program is offered to provide a core of Pediatric knowledge. During this time the student is exposed to the important areas of general Pediatrics so that an overview of the subject is presented. The year is divided into 6 modules. During the module the student is assigned to a Pavilion Service for 3-1/2 weeks, the Newborn and Neonatal Intensive Care Service for approximately 2 weeks, and the outpatient services at either Roosevelt Hospital or Bronx-Lebanon Hospital. Throughout the rotation students spend one-half day a week in the Pediatric Outpatient Department and several hours a week in the Emergency

Unit. Both general pediatric problems and those of interest to the subspecialties are encountered when the student is on the Pavilion Service. The experience at Roosevelt and Bronx-Lebanon Hospitals exposes the student to the problem of providing services to the economically deprived groups.

During the third-year experience the student acts as a clinical clerk. Each admission is assigned to a student who does a history, physical examination and formulates a differential diagnosis. The plan for the patient is developed by the student, intern, and senior resident. An attending physician supervises the team. The student is expected to follow his patient closely during the admission and to write pertinent progress notes. A number of formal teaching seminars are scheduled. These provide the core lecture material for Pediatrics highlighting various aspects of general pediatrics and the subspecialties. In addition, the student participates in daily attending rounds. The regularly scheduled rounds and teaching sessions of the Department of Pediatrics are part of the curriculum for the third year. The students are assigned to a tutor in groups of four. Tutors are members of the full-time staff or the attending staff. Tutors meet with the students three times a week to present and discuss cases. It is the tutor's responsibility to give continuity to the pediatric curriculum.

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 pediatrics 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, and Memorial 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

Walter F. Riker, Jr., Chairman; Walter Modell

Visiting Professor

John J. Burns

Clinical Associate Professor

Amir Askari; Walter W. Y. Chan; Raymond W. Houde; Henn Kutt; Roberto Levi; Michiko Okamoto

Clinical Associate Professors

Alan Van Poznak; Arthur K. Shapiro

Assistant Professors

Charles Inturrisi

Visiting Assistant Professor

Barry Berkowitz

Instructor

Anna B. Drakontides

Research Associates

Thomas Baker; Srinivas Rao

Research Fellows

Anna Stanec; Henry Yu

Required Course**Second Year**

Basic Course. Lectures, demonstrations, and conferences are given during the first and second terms of the second year; clinical demonstrations involving both in- and out patients are scheduled in the second term. These exercises constitute the basic course in pharmacology. The major purpose is to teach the concept and the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug and its rational use in therapeutics. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered systematically, serve to illustrate various mechanisms and parameters of drug action. 154 hours.

Elective Options**Second Year**

Elective opportunities will be made available to students during free time. In these courses the student may have the opportunity either to ascertain the pharmacological profile of newer drugs through application of principles introduced during the basic course or to clarify through research some particular aspect of drug action. These activities will be supervised closely by staff members and oriented as a graduate experience endeavoring to foster scholarly studies and scientific inquiries. The basic course in pharmacology is a preferred prerequisite.

Fourth Year

Seminar. A series of one-hour seminars are offered twice weekly in Pharmacologic Bases of Therapy. In these seminars, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a re-examination of the pharmacologic rationale for a particular therapy. Also, students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate. This course is offered during each module but will be given only if there are at least six students registered.

Clinical Pharmacology. Electives in clinical pharmacology offer the student an opportunity to become acquainted with problems of experimental design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs, and (b) the study of cardiovascular drugs, especially antiarrhythmic agents. Recommended time: one to two modules.

Medical Editing. An experience is offered for one to three students to join the activities of the editorial office of *Clinical Pharmacology and Therapeutics*, an official publication of the American Society for Pharmacology and Experimental Therapeutics.

Students will participate in all aspects of the handling of manuscripts from their receipt to final disposition, including selection of referees, exchanges between the

reviewer and editor, exchanges between the editor and author regarding suggestions for modifications made by referees, and the final editing processes involved in readying the manuscript for publication. Recommended time: two modules, part-time.

Research. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and the biochemical aspects of pharmacology. Detailed descriptions of opportunities can be found in the *Catalog of Electives*. Recommended time: to be arranged.

Physiology and Biophysics**Professors**

Robert F. Pitts, Maxwell M. Upson Professor of Physiology and Biophysics, Chairman; Roger L. Greif; Erich E. Windhager

Associate Professors

Sulamita Balagura-Baruch; Colin Fell; Bernice Grafstein; Thomas M. Maack

Instructors

Daniel Sigulem; T. K. Young

Research Associate

Susan Specht

Research Fellows

Edgar Leal; Han C. Park

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, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, 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 of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having on the fourth floor of its building the Graham Lusk Library of Physiology, a gift from the late professor of physiology, Graham Lusk. The Library includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the college library, the facilities of this library are at the disposal of the students of medicine.

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 respective 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.

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 radioisotopic methods to the study of body function. Conferences are largely devoted 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.

Psychiatry

Professors

William T. Lhamon, Barklie McKee Henry Professor of Psychiatry, Chairman; Sanford Goldstone (Psychology); Lawrence E. Hinkle, Jr. (Medicine); Richard N. Kohl; Eric H. Lenneberg (Psychology); Paul R. McHugh; Donald J. Reis (Neurology)

Clinical Professors

Eric T. Carlson; Francis J. Hamilton; James F. Masterson; William N. Schoenfeld (Psychology); Arthur K. Shapiro; Richard M. Silberstein; Otto A. Will, Jr.

Associate Professors

M. David Clayson (Psychology); James L. Curtis; Thomas H. Meikle, Jr. (Neuroanatomy); Stanley T. Michael; Jeri A. Sechzer (Psychology); Gerard P. Smith (Physiology); Peter E. Stokes

Clinical Associate Professors

Harvey H. Barten; Sheldon Blackman (Psychology); Jacob B. Chassan (Statistics); Helen E. Daniells; Bernard Fisher (Psychology); Frederic F. Flach; Gerard Fountain; Richard J. Glavin; Lawrence J. Hatterer; Helen S. Kaplan; Ari Kiev (Social Psychiatry); Ludwig G. Laufer; Abraham S. Lenzer; Alfred B. Lewis, Jr.; Edward Y. Liang; Laurence Loeb; Alan A. McLean; Elizabeth E. Mintz (Psychology); Bertrand L. New; Stephen Nordlicht; Edward L. Pinney, Jr.; Jacques M. Quen; Robert A. Ravich; Leonard R. Straub; Nathaniel Warner; Elliott L. Weitzman

Assistant Professors

John F. Clarkin (Psychology); Robert F. Fath (Medicine); Jeremy M. Kisch (Psychology); Jerome L. Kroll; Armand Loranger (Psychology); William K. McKnight; Jane F. O'Neil; Robert S. Ort; Richard M. Sallick; Edward E. Seelye; Charles A. Shamoian; Helen N. Siegrist (Social Work); Lester M. Tourk (Psychology); Porter H. Warren; Peter G. Wilson; Louis C. Zang

Clinical Assistant Professors

Edward T. Adelson; Arthur A. Anderson, Jr.; Gerald A. Anderson; Joseph Arcuri; Jason Aronson; John M. Astrachan; Ralph Baker; James E. Baxter; Thomas Beckett (Psychology); J. Warren Brown; Albert N. Browne-Mayers; Edwin H. Church; Howard N. Cooper; Thomas J. Craig; E. Gerald Dabbs; John D. Dalach (Psychology); Lawrence A. Downs; Samuel L. Dunaif; Renee G. Ferguson; Theodore H. Finkle; Maria Freile Fleetwood; Sheldon M. Frank; Ellen D. Freeman; Lionel O. Friedman; Richard B. Gould; Seymour Gruber; Jerome E. Haber; Mary B. Hagamen; Thomas S. Harper; Irving B. Harrison; Royal J. Haskell, Jr. (Psychology); Thomas F. Henley; Philip S. Herbert; Daniel N. Hertz; Peter T. Janulis; Francis D. Kane; Marilyn G. Karmason; M. Dorothea Kerr; Mary M. Knight; Robert G. Knight; Allison B. Landolt; Sydney E. Langer; Robert E. Lee (Medicine); Henry J. Lefkowitz; Edna A. Lerner (Psychology); Susan A. Locke (Psychology); William A. Longaker; John N. Loomis; William V. Lulow; Arnold S. Maerov; Richard B. Makover; Rene C. Mastrovito; James R. McCartney; Lillian E. McGowan; John F. McGrath; Lawrence D. Miller; Harry H. Moorhead; Anna J. Munster; Wayne A. Myers; Jesus Nahmias; Werner Nathan; Edwin R. Ranzenhofer; Kurt C. Rawitt; David B. Robbins; Philip S. Robbins; George Samios; Marie-Louise Schoelly; Jean E. Schultz; Victoria Sears; Michael A. Selzer; Elaine Shapiro (Psychology); Leonard R. Sillman; Robert M. Simon; Nora Smith; David E. Sobel; James H. Spencer, Jr.; Tom G. Stauffer; Joseph D. Sullivan; Thornton Vandersall; James R. Ware; Henriette L. Wayne; William D. Wheat; Aaron D. Weiner; Alden E. Whitney; Alvin R. Yapalater

Instructors

Peter Kosseff (Psychology); Marlin R. Mattson; Agop Tashchian; Sivachandra M. Vallury

Clinical Instructors

Arnold Becker; Norland F. Berk; Richard N. Besley; Marvin B. Blitz; Ronald Brady; Philip M. Bromberg; Robert S. Carson; James J. Cavanagh; Remo R. Cerulli; Cornelius J. Clark; Ruth Cohen; Paul H. Davis; Lois B. de Alvarado; Ruth F. Deutch; Mary V. Di Gangi; Thomas L. Doyle, Jr.; Suzanne C. Draghi; Joseph Dubey; Samuel V. Dunkell; Stuart R. Edelson; Arthur Eisen; Douglas R. Elliott; Simon J. Epstein; Marshal F. Folstein; Roland J. Foraste; Mio Fredland; Marvin P. Frogel; Robert I. Ganeles; Harvey Goldey; Sheldon Golub; Robert Hirsch; Raymond F. Jarris; Abraham I. Kaplan; Hae E. Kim; Sally S. Kove; Samuel Kramer; Melvine Levine; Geraldine Levitt; Dorothy Lieberman; Harvey I. Mandel; Herbert Meadow; Julius G. Mendel; Sarah M. Mitchell; Doris B. Nagel; Daniel J. O'Connell; Avodah K. Offit; Salvatore J. Pagliaro; Esra S. Petursson; Allen Reichman; Eric Riss; Lathrop E. Roberts; Herbert L. Rothman; Arnold S. Rudominer; Marilyn Schwab; Edward C. Sheppard; Elliot R. Singer; Zalec Skolnik; Max Spital; Sylvia G. Traube; Georgiana S. Tryon; Kenneth F. Tucker; Traer Van Allen; Wayne M. Weisner; Emmett Wilson, Jr.; Anna Zagoloff

Research Associates

Norman Dain; James G. Gibbs, Jr.; Betty J. Lasley; Thomas A. Loftus

Research Fellows

Rochelle W. Austrain; Hannah S. Decker; Milton D. Hassol; Milton Seegmiller; Michael H. Tamaroff

Fellows

Jose E. Acuna; Arnold E. Andersen; Orestes J. Arcuni; Ljerka Balenovic-Drezga; Carlos Bruni; Ruth D. Bruun;

Caryl Casey; Clarence L. Chen; Mary L. Chiorazzi; Richard M. Carlton; Marvin Conan; Peter M. Crain; Willard J. Davies; Paul W. De Bell; Kathryn Deguire; Neil Edison; Andrew E. Eichmann; Susan Folstein; David J. Gallina; Richard A. Gordon; Rudolph Gross; Paul Hoenig; Robert A. Hoffnung; Roosevelt Khawly; Kathryn A. Kirk; Karl G. Koehler; George C. Neffinger; Stephen Reich; William T. Richardson; Jurij Savitsky; Philip R. Slavney; Carl R. Sonder; Robert D. Sovner; Henry M. Storper; Lisa Tallal; Robert L. Warburton; Robert D. Williams; Florence M. Young; Joseph A. Zito; Christ L. Zois

Assistants

Elizabeth K. Balliett; Myrtle Guy; Elaine Heffner; Michael G. Rothenberg

The Department of Psychiatry offers required and elective courses during each of the four years. It is the objective of the teaching program to provide a fundamental and comprehensive body of information about clinical psychiatry; also to foster the students' clinical skills and enhance their sensitivities in dealing with psychiatric as well as medical patients. These objectives are implemented by means of didactic courses and a variety of intensely supervised clinical experiences.

Required Courses

Second Year

Psychopathology. The course consists of lectures on the major psychiatric disorders. These are discussed in terms of diagnosis, clinical features, concepts of etiology, treatment, and outcome. In addition, small groups of students interview patients at the Payne Whitney Psychiatric Clinic under the supervision of the staff. The course offers clinical experience in methods of interviewing, history taking, and relating to patients. Total hours: 20.

Third Year

Clinical Psychiatry. Groups of four to six students rotate through the in- and outpatient services of the Payne Whitney Psychiatric Clinic or the Westchester Division four days a week for four week periods. Students examine and work with patients, and attend conferences and demonstrations. The work includes study of adults and children with a variety of psychiatric problems.

Elective Options

First Year

Electives. Electives are offered in "Group Development" and in "Human Sexuality which provide the student with the opportunity of beginning to explore the complexities of his role as a physician. In addition, various other electives are offered in the different sections of the Department of Psychiatry, including the history section, social psychiatry, special studies lab, sexual study and treatment program, etc. Listing is available in the *Catalog of Electives*.

Fourth Year

Electives. During the fourth year the following electives are offered: A clinical clerkship in the psychiatric inpatient department, clinical experience in the psychiatric outpatient department, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, audio-visual teaching, community psychiatry, child psychiatry. A complete listing is available in the *Catalog of Electives*.

Public Health

Professors

George G. Reader, Livingston Farrand Professor of Public Health, Chairman; Farrington Daniels

Clinical Professor

Eric J. Cassell

Adjunct Professor

Walter R. Lynn

Visiting Professors

William T. Ingram (Engineering); Philip D. Marsden

Associate Professors

Mary E. W. Goss (Sociology); David Schottenfeld

Clinical Associate Professors

Leonard Heimoff; Frederic T. Kirkham; Eugene G. McCarthy, Jr.

Assistant Professors

Michael H. Alderman; Lewis M. Drusin (Epidemiology); August Groeschel; Thomas A. Hodgson, Jr. (Economics); Thomas Jones; Valerie Mike (Biostatistics); Robert B. Millman; Alice Ullman (Social Work); Katsuhiko Yano

Clinical Assistant Professors

Gabrielle Bondi; Aaron B. Chaves; Suzanne Howe

Clinical Instructors

Gladys L. Hobby; William H. Loery

Research Associates

David Gordon; Stanley Henshaw; Jeanne F. Magagna; Marjorie McCarty

Research Fellow

Oscar Ochs

Lecturer

John C. Seed

Teaching in the Department of Public Health focuses on problems of disease, disease-control and health behavior in human groups and communities. The "patient" is society rather than the individual person. 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 man has faced throughout world history. To a considerable extent teaching thus involves study of existing and emerging disease problems and the ways they are shaped by the multiple interrelations of heredity, culture, social relationships, and the physical and biological environments. 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 Illness and Disease. This is a part of the first-year course in Introductory Medicine and

40 Radiology

consists of two hours each Wednesday afternoon during the second trimester. It is aimed at orienting 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.

Health Care Systems. This is also a part of the first-year course in Introductory Medicine and consists of one hour each Tuesday during the third trimester. It provides an analysis of existing systems of health care in the United States and abroad through the study of (1) the organization of medical practice; (2) the role of the hospital in patient care and its relationship to the community; (3) the role of neighborhood health centers; (4) the economics of health care and (5) the proposals for modification of current systems.

Second Year

Introduction to Epidemiology. This series of introductory courses is held throughout the first trimester. These courses aim essentially at providing the students with an elementary but functional comprehension of the basic tools used not only in public health, but in practically all research; an introduction to the study of disease and its determinants in a community; fundamental statistical concepts; and the use of the computer in medicine. Sessions on epidemiology and biometrics may be lectures or seminars. They will be devoted to the elucidation of those factors affecting the occurrence and distribution of disease, the design of epidemiologic studies, testing the significance of observed results by appropriate statistical means, and a basic appreciation of statistical concepts.

Parasitology. This course is given during the second trimester of the school year by Dr. B. H. Kean and Dr. Thomas Jones, assisted by Dr. Philip Marsden, Visiting Professor in the Department of Public Health. Dr. Kean is head of the tropical disease unit in the Department of Medicine and has had extensive field experience in the tropics.

The principal emphasis in this course is on disease caused by the larger parasites which 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 it 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 man—clinical 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 proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures. Each Monday, Wednesday and Friday during the latter part of the second trimester, a lecture or demonstration is presented from 2–3 p.m. The laboratory exercises are carried on from 3–5 p.m.

Third Year

Public Health and Community Medicine. The third-year course in public health consists of morning field trips followed by afternoon seminars. The exercises are devoted to consideration of general questions of clear medical import which may be expected to represent major problems related to urban communities, to the student's future patients considered as individuals and

to himself. The teaching is all conducted with groups of seven to fourteen students who meet weekly for a total of eight weeks.

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 some of the problems it faces. Topics considered include the characteristics of health and medical services which 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 crises, rising costs and forms of payment to hospitals and physicians including Medicare and prepaid insurance. The course includes reading assignments. 2nd year; Drs. Hodgson and McCarthy.

Biostatistics-logic of research design. These two electives have been reorganized and combined to provide the student with a functional comprehension of two areas of knowledge which are basic to nearly all research as well as to a critical evaluation of medical literature. It is highly recommended that they be taken in tandem by students interested in research, epidemiology or administrative or public medicine. Biostatistics is prerequisite to Logic of Research Design.

The course in Biostatistics will cover the fundamental concepts of probability and statistical inference as needed for the analysis of observational or experimental data. Emphasis will be upon the understanding of theory, with selected applications for illustration. No previous training in statistics is required. Open to graduate students as well as to medical students, from January to mid-March. Dr. Mike.

The Logic of Research Design course is aimed primarily at medical students and will review the planning, implementation, and evaluation of scientific research. Topics to be considered include sampling methods and sample size, survey research, retrospective and prospective studies, questionnaire construction and administration, and the collection and analysis of research data. Finally, each student will have a project in which he will design and present a research protocol after consulting with a faculty member of the Department of Public Health. 4th year; Drs. Schottenfeld and Yano; Miss Magagna.

Radiology

Professors

John A. Evans, Chairman; David V. Becker; Giulio D'Angio; Robert H. Freiburger; D. Gordon Potts; Joseph P. Whalen

Clinical Professor

Harold L. Temple

Associate Professors

Harold A. Baltaxe; Richard Benua; Florence Chien Hwa-Chu; Michael D. F. Deck; Morton A. Meyers; Zuheir Mujahed; Eladio Nunez; Nathan Poker; Harry L. Stein; Donald E. Tow; Robin C. Watson

Clinical Associate Professors

Basil S. Hilaris; George Stassa; Judah Zizmor

Assistant Professors

Lowell Anderson; Keith Arthur; Lawrence M. Blau;

Patrick Cahill; Eleanor Deschner; Bernard Ghelman; Daniel G. Gomez; Margaret Harrison; J. Garrett Holt; Seymour Hopfan; James Hurley; Jeremy J. Kaye; Roberta L. A. Kirch; David C. Levin; Marvin Loring; Charles Merten; Lourdes Nisce; G. Craig Ramsay; Lawrence N. Rothenberg; Jeffrey Rothman; Samuel Seal; Julius Smith; Patricia Winchester

Clinical Assistant Professors

F. Mitchell Cummins; Antonio F. Govoni; Plinio Rossi; Henry M. Selby; Ruth E. Snyder

Instructors

Martin Barandes; Mostafa Ali El Batata; Robert Bugbee; John Cavallari; Eugene Covington; Herbert M. Goldberg; Roger A. Hyman; Charles D. Kelley; James McSweeney; Radhe Mohan; James Naidich; Richard C. Packert; Samuel Phillips; Malcolm Powell; Gian D. Ragazzoni; Larry D. Simpson; Jean St. Germain; Alan Wecksell

Clinical Instructors

Anthony Fuller; Andrew Haraway; James C. Hirschy; Robert H. Leaming

Fellows

Lewis Bader; Paul Cipriano; Charles B. Grossman; Jack G. Lee; Samuel T. Lim; Albert Messina; Robert Schneider; Thomas Sos; Zsolt Szekeley; Frank Volberg; Richard Wolfman

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 Psychiatric 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 area 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 didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of disease at the regular conferences of the clinical departments, and a variety of elective courses.

Required Courses

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 Xrays as an extension of the physical examination. Both normal anatomy and selected cases of pathologic alteration will be reviewed.

Third Year

Third year instruction in radiology consists of a twenty-eight hour lecture course in diagnostic roentgenology. The aim of this course 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 progress by self-evaluation sessions after each third.

Elective Options

First Year

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 him with a clearer perspective of important anatomical relationships. 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.

Fourth Year

An elective is offered to groups of up to 20 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 added to from the abundant material passing through the Department.

An elective in the clinical application of radiocative isotopes consists of a period of participation in and observation of the activities of the Division of Nuclear Medicine. The student 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. He will participate in the daily report session in which scans and procedures are reviewed. In addition, if the student so wishes he may originate research activities of the laboratory ranging from the development and standardization of new procedures to instrument modification and calibration. In addition, 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 5 modules and is limited to 2 students.

Surgery

Professors

Paul A. Ebert, Chairman, Johnson and Johnson Distinguished Professor of Surgery; Peter Dineen; Edward I. Goldsmith; C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery; Victor F. Marshall, James

J. Colt Professor of Urology in Surgery; Edward C. Muecke (Urology); Robert L. Patterson (Orthopedics); Russel H. Patterson, Jr. (Neurosurgery); S. Frank Redo; Albert L. Rubin (Biochemistry); Bjorn Thorbjarnarson; John C. Whitsell, II; Philip D. Wilson, Jr. (Orthopedics)

Clinical Professors

William A. Barnes; John W. Draper (Urology); Cranston W. Holman; Allan E. Inglis (Orthopedics); Russell W. Lavengood, Jr. (Urology); John H. McGovern (Urology); Bronson S. Ray (Neurosurgery); Lee Ramsay Straub (Orthopedics)

Associate Professors

Jack H. Bloch; John H. Doherty (Orthopedics); Henry Gans; Helena Gilder (Biochemistry); Dicran Goulian, Jr. (Plastic Surgery); William R. Grafe, Jr.; Peter M. Guida; Leonhard Korngold (Microbiology, Orthopedics); Charles K. McSherry; Arthur J. Okinaka; Paul A. Skudder; Kurt H. Stenzel (Biochemistry)

Clinical Associate Professors

William D. Arnold (Orthopedics); Stanley J. Behrman (Dentistry); Rolla D. Campbell, Jr. (Orthopedics); Howard S. Dunbar (Neurosurgery); John H. Eckel; George R. Holswade; Bernard Jacobs (Orthopedics); John G. Keuhnelian (Urology); Bernard Landis (Psychology); David B. Levine (Orthopedics); Henry Mannix, Jr.; Ralph C. Marcove (Orthopedics); Laurence Miscall; James A. Nicholas (Orthopedics); William F. Nickel, Jr.; James W. Smith (Plastic Surgery); George E. Wantz

Assistant Professors

James E. Baxter (Psychiatry); Robert G. Carlson; Armand F. Cortese; William A. Gay, Jr.; Randolph H. Guthrie, Jr. (Plastic Surgery); Leon J. Kutner (Microbiology, Orthopedics); Jane W. Mellors (Biochemistry, Orthopedics); Piero O. Niceta (Urology); Robert R. Riggio (Biochemistry); Gabriel H. Schwartz (Biochemistry); William T. Stubenbord; Peter S. Walker (Bioengineering, Orthopedics)

Clinical Assistant Professors

Walter H. Bohn (Orthopedics); Paul W. Braunstein; Mitchell Brice II, (Urology); George N. Cornell; J. Edwin Drew (Urology); Sidney N. Eichenholtz (Orthopedics); Robert A. Goldstone (Orthopedics); Joseph V. Hajek (Orthopedics); Alexander Hersh (Orthopedics); John N. Insall (Orthopedics); Joseph T. Kauer; Edward B. C. Keefer; Peter J. Marchisello (Orthopedics); John L. Marshall (Orthopedics); Victor Mayer (Orthopedics); Chitranjan S. Ranawat (Orthopedics); Leon Root (Orthopedics); Eduardo A. Salvati (Orthopedics); Konstantin P. Veliskakis (Orthopedics)

Instructors

Paolo Aglietti; John M. Aronian, III; Frank R. Barta, Jr.; Louis J. Benton, Jr.; Charles J. Bleifeld; Hugh C. Bredin; Toros Chaglassian; Jhoong S. Cheigh; James R. Cole; E. Brown Crosby; William T. Curry; Christopher J. Daly; William U. Davidson; Kamlesh Desai; Serge J. Dos; Robert J. Ellis; Dewey N. Erwin; Ian B. Fries; Nicholas G. Herr; Edgar H. J. Hift; Herbert E. Kramer; Arnold J. Lande; Jose M. Lardone; John P. Lyden; Joseph R. Macys; John C. McCabe; Irvine G. McQuarrie; Robert W. Milgrim; Gerald J. Monchik; Holland V. Moore; William P. O'Grady; Joseph C. Orlando; Roland Pritchard; David M. Richter; Thomas P. Sculco; Hiromu Shoji; Jacqueline J. Struthers; Xamnan Tulyasathien; Luther F. Warren; Russel F. Warren; Stephen L. Winer; Dennis W. Wise; Henry C. Yu

Clinical Instructors

Joel B. Adler; Samuel Avnet; Howard D. Balensweig; Michael Browne; William J. Bruton; Thomas I. Carey; Stephen E. Carney; Robert L. Clarke; John W. Coleman; Thomas M. Darrigan; David S. David; John B. Ogilvie; Earl A. O'Neill; Ivin B. Prince; Thomas D. Rizzo; David S. Speer; N. D. Krishne Urs; William J. Walsh, Jr.

Research Fellow

Koichi Matsumoto

Fellows

William S. Adam; Stanley E. Asnis; William A. Brock; Philip D. Coleman, Jr.; Robert L. Cucin; William T. Curry; David N. Danforth, Jr.; John E. Deitrick, Jr.; Steven A. Dressner; J. Victor Ehrens; James H. Ellison; Jose M. Fabrega; Kenneth A. Falvo; Robert M. Farrell; Jeffrey Fleigel; Edwin Y. Fondo; Peter J. Grillo; Laurance J. Guido; Ronald K. Harris; Steven D. Herman; Gerald Imber; Andre F. A. Jawde; Edward C. Jones; Robert M. Kass; Harvey A. Konigsberg; Laurence R. LeWinn; Peter J. Linden; Stephen A. Liroff; Frederick P. Loy; Marc I. Malberg; John C. McCabe; James P. McCarron, Jr.; David B. Melvin; Frederick A. Mondini; Patrick F. O'Leary; Michael W. Panio; William R. Pitts, Jr.; Lee J. Robertson; Rigoberto Sampson; Robert G. Schwager; Jerome A. Schweikert; Mark M. Sherman; John J. Shine; Barry H. Smith; Peter B. Stovell; Luis Tapia; Vincent J. Tumminello; George M. Uhan; Joe D. Watts; William R. White; James M. Wilson, III; Garo Yerevanian; Orest V. Zaklynsky

Memorial Hospital

Professors

Edward J. Beattie, Jr.; Joseph G. Fortner; Willet F. Whitmore, Jr. (Urology)

Clinical Professor

Theodore R. Miller

Associate Professors

William G. Cahan; Philip R. Exelby; Hollon W. Farr; Joseph H. Galicich, Jr.; Henry Grabstald (Urology); Maus W. Stearns; Elliot W. Strong

Clinical Associate Professors

Robert J. Booher; Eugene E. Clifton; Michael R. Deddish; Joseph H. Farrow; John L. Pool; Guy F. Robbins; Reuven K. Snyderman (Plastic Surgery); Jerome A. Urban

Assistant Professors

Hiroyuki Ashikari; Donald G. C. Clark; William H. Knapper; Nael Martini; Sandra L. Nehlsen; Thaddeus E. Starynski

Clinical Assistant Professors

Lemuel Bowden; Daniel Catlin; Alfred Fracchia; John T. Goodner; John S. Lewis; Charles J. McPeak; Stuart H. Q. Quan; Charles E. Rogers; H. Randall Tollefsen; Horace W. Whiteley, Jr.

Instructors

Karamat U. Choudhry; David W. Kinne; Alan D. Turnbull

Clinical Instructors

Myron Arien; Angelo J. De Palo; Frank P. Gerold; Ralph E. L. Hertz; A. Ranald MacKenzie; Oliver S. Moore; Michael A. Paglia; Elizabeth P. Pickett; Carl J. Schmidlapp

Fellows

Antonio E. Alfonso; Ralph J. Burnard; Yin-chi Chien; James P. Gaston; Amir Ghanci; John B. Kaiser; Sang Moo Lee; Michael E. Lodish; Joel H. Lundy; Brian T. McCaffrey; Bhashkar K. Rao; Mohan K. Sehdev; Ramesh C. Sharma; Osama Soliman; Charlotte R. Walker; Harold J. Wanebo; David P. Wolk

North Shore Hospital

Associate Professor

Arthur Beil, Jr.

Clinical Associate Professors

Bertram E. Bromberg (Plastic Surgery); Joseph A. Epstein (Neurosurgery)

Assistant Professor

Martin J. Kaplitt

Clinical Assistant Professors

Robert Carras (Neurosurgery); Robert W. Duffy; Charles R. Dunbar (Orthopedics); Stephen L. Frantz; James L. Green (Urology); Bruce R. Heinzen; Louis J. Lester; John D. Mountain; Charles B. Ripstein; Samuel H. Rothfeld (Urology); Nathaniel Spier; Richard M. Stark (Orthopedics)

Instructors

Ihsan Erdamar; Stephen M. Kopp

Clinical Instructors

Carl M. Beiles; Francis T. Bergan; Samuel C. E. Clayton; Elizabeth V. D. Corylles; Robert E. Decker; Stephen L. Deckoff; Myron E. Freund; Arnold F. Glendinning; Joseph W. Guido; Waldemar F. Herman; Barton Hoexter; Kenneth Kenigsberg; Ronald M. Linsky; David M. Mazor; Abdullah S. Mishrick; Herbert Pearl; Alan D. Rosenthal; Keith M. Schneider; David C. Silverstein; Irvin A. S. Spira; Maganlal K. Sataria; Albert P. Sutton; Robert S. Waldbaum

Fellows

Robert P. Banka; Dennis L. Bordan; Anthony F. Carolla; Guillermo E. Delgado; Alan H. Gold; Arthur L. Graff; Daniel P. Harley; Roy A. Henseler; David A. Horvat; Vincent J. Jaeger; Douglas W. Klotch; Ronald H. Ocean; Jeffrey M. Sherwood; Edwin C. Tan; Anthony J. Tortolani; Richard M. Whalen

Required Courses

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 provided, also, in orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Third Year

The curriculum for the third year provides a core program of clinical instruction and exposure in surgery to the students during an eleven 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 spends approximately eleven weeks on the

general surgery pavilions with rotations through the divisions of thoracic surgery, urology, orthopedics and Memorial Hospital for Cancer and Allied Diseases. 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. He also evaluates laboratory determinations on patients assigned to him 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. He has an opportunity to see at first hand the pathological conditions for which the operation was undertaken. He attends the rounds held by the residents and members of the senior staff.

Each Tuesday morning from 8:00 to 9:00, 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 1:00 to 2:30 in the afternoon, seminars are held in which attending surgeons lecture on surgery and its subspecialties. This provides a broad coverage of surgery in its entirety.

On Thursday afternoons from 3:00 to 4:00 seminars are held during which the students present a lecture on an assigned surgical subject. Attending surgeons act as moderators supplementing and guiding the discussion that results from the students' presentation. On Tuesday and Thursday afternoons, ward rounds are held by surgeons accompanied by students. These rounds are oriented towards 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 pre- 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. These sessions are held either at The New York Hospital or Manhattan Eye and Ear Hospital.

Grand rounds are held on Wednesday afternoons and the student's attendance is required. These rounds last for one hour or more and usually two patients with surgical problems are presented and discussed. Experience in emergency surgical care is provided in the Emergency Room where the students are assigned in small groups on a rotary basis.

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*. In addition, there is a full-year elective as intern in surgical service open to a limited number of qualified students.

Schedules 1972-73

First Year

First Trimester, Weeks 1-5

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Gross Anatomy	Biochemistry	Biochemistry	Biochemistry	Microscopic Anatomy
10-11		Microscopic Anatomy	Gross Anatomy	Gross Anatomy	Gross Anatomy
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		

First Trimester, Weeks 6-11

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Gross Anatomy	Biochemistry	Biochemistry	Biochemistry	Gross Anatomy
10-11		Microscopic Anatomy	Microscopic Anatomy	Microscopic Anatomy	
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		Elective/Free

First Year

Second Trimester

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9–10	Biochemistry	Physiology	Biochemistry	Biochemistry	Physiology
10–11	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	
11–12					Microscopic Anatomy
12–1				Biochemistry	Elective/Free
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Physiology	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3–4	Interdisciplinary				
4–5			Elective/Free		

Third Trimester

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9–10	Physiology	Neuroscience	Physiology	Elective/Free	Neuroscience
10–11	Neuroscience				Physiology
11–12					
12–1		Lunch		Lunch	
1–2	Lunch	Introductory Medicine	Lunch	Elective/Free	Lunch
2–3	Neuroscience	Elective/Free	Physiology		Introductory Medicine
3–4	Interdisciplinary				
4–5					

Second Year

First Trimester —11 Weeks

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Pathology	Pharmacology	Pathology	Pharmacology	Pathology
10–11		Pathology			
11–12					
12–1		Clinical Pathological Conference			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Microbiology	Elective/Free	Microbiology	Elective/Free	Microbiology
3–5	Elective/Free				

Second Trimester —11 Weeks

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Pharmacology	Pharmacology	Pathology	Public Health	Pathology
10–11	Pathology	Pharmacology		Pharmacology	
11–12					
12–1		Clinical Pathological Conference			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Microbiology* Parasitology Public Health	Public Health	Microbiology Parasitology Public Health	Elective/Free	Microbiology Parasitology Public Health
3–5		Elective/Free			

* Microbiology, weeks 1 through 5
Parasitology, weeks 5 through 9
Elective/Free, weeks 10 through 11

Third Trimester —11 Weeks

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Medicine	Psychiatry	Medicine	Elective/Free	Medicine
10–11					
11–12					
12–1		Clinical Pathological Conference			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Medicine	Elective/Free	Medicine	Elective/Free	Medicine
3–5	Elective/Free				

Third Year

Section I

<i>First Half of Year September 5– February 25</i>	<i>12 Weeks</i>	<i>11 Weeks</i>	Christmas Vacation	<i>7 Weeks</i>	Spring Vacation
Division A	Medicine	Surgery		Obstetrics Pediatrics	
Division B	Surgery	Medicine		Neurology, Psychiatry and Public Health	

<i>Second Half of Year February 26– August 4</i>	<i>7 Weeks</i>	<i>8 Weeks</i>			
Division C	Neurology, Psychiatry and Public Health	Pediatrics			
Division D	Obstetrics	Neurology, Psychiatry and Public Health			
Division E	Pediatrics	Obstetrics			

Section II

<i>First Half of Year</i>	<i>8 Weeks</i>	<i>7 Weeks</i>	<i>8 Weeks</i>	<i>11 Weeks</i>	
Division C	Obstetrics	Neurology, Psychiatry and Public Health	Pediatrics	Medicine	Spring Vacation
Division D	Pediatrics	Obstetrics	Neurology, Psychiatry and Public Health		
Division E	Neurology, Psychiatry and Public Health	Pediatrics	Obstetrics	Surgery	

<i>Second Half of Year</i>	<i>11 Weeks</i>				
Division A	Surgery				
Division B	Medicine				

Fourth Year

Elective Modules

A	September 5–October 28	(8 weeks)
B	October 30–December 16	(7 weeks)
C	January 3–February 17	(7 weeks)
D	February 19–April 7	(7 weeks)
E	April 9–May 24	(7 weeks)



Register

Administration

Cornell University

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Robert A. Plane, University Provost
W. Donald Cooke, Vice President for Research
Lewis H. Durland, University Treasurer
William D. Gurowitz, Vice President for Campus Affairs
Samuel A. Lawrence, Vice President for Administration
E. Hugh Luckey, Vice President for Medical Affairs
Thomas W. Mackesey, Vice President for Planning
Paul L. McKeegan, Vice Provost
Arthur H. Peterson, University Controller
Richard M. Ramin, Vice President for Public Affairs
Robert F. Risley, Vice Provost
Neal R. Stamp, Secretary of the Corporation and University Counsel

The New York Hospital— Cornell Medical Center

The Center was formed by an agreement between The Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational and scientific activities of the two institutions. The Center now includes not only Cornell University Medical College and the New York Hospital, but also the Graduate School of Medical Sciences of Cornell University and the Cornell University–New York Hospital School of Nursing.
E. Hugh Luckey, President
August H. Groeschel, Vice President

Joint Administrative Board

The Center is operated under the supervision of a Joint Administrative Board, composed of four governors of The Society of The New York Hospital, four representatives of the Board of Trustees of Cornell University and one other member elected by the appointed members. The President of The New York Hospital–Cornell Medical Center is the chief executive officer of the Board.

Representatives from the Board of Trustees of Cornell University

Arthur H. Dean
Stanton Griffiths

Dale R. Corson, Chairman 1972
Robert W. Purcell

Representatives from the Board of Governors of The Society of The New York Hospital

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Stanley deJ. Osborne
Frederick K. Trask, Jr.
John Hay Whitney

Member at Large

Walter B. Wriston

Ex Officio Member

E. Hugh Luckey, M.D.

Cornell Medical College

Dale R. Corson, President of the University
E. Hugh Luckey, Vice President for Medical Affairs, Cornell University
J. Robert Buchanan, Dean of the Medical College
James L. Curtis, Associate Dean
Fletcher H. McDowell, Associate Dean
Thomas H. Meikle, Jr., Associate Dean
Charles A. Santos-Buch, Associate Dean
Lawrence Scherr, Acting Associate Dean
Frederick W. Cassidy, Jr., Business Manager
M. James Peters, Assistant Treasurer
Wayne Gooch, Director of Personnel
Bruce H. Ewald, Director of Laboratory Animal Medicine
Dorothy B. Lemen, Registrar
Erich Meyerhoff, Director of the Library
Marvin Raeburn, Director of Public Information

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Alexander G. Bearn
J. Robert Buchanan
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John T. Ellis
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Fritz F. Fuchs
William T. Lhamon
E. Hugh Luckey
Wallace W. McCrory
Walsh McDermott
Fletcher H. McDowell
Thomas H. Meikle, Jr.

50 Faculty

Alton Meister
Robert F. Pitts
Fred Plum
Walter F. Riker
Charles A. Santos-Buch
William F. Scherer
Lawrence Scherr
Roy C. Swan
David D. Thompson
Two representatives of Faculty Council
Two students
New appointment
non-voting members
to be elected

Faculty Council

To be elected.

Standing Committees

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Faculty of the Medical College*

Emeritus Professors

Arthur F. Anderson, M.D. [1930; 1962], *Clinical Professor of Pediatrics*
David P. Barr, M.D. [1916; 1957], *Professor of Medicine*
Leona Baumgartner, M.D. [1935; 1968], *Clinical Professor of Public Health; Clinical Professor of Pediatrics*
McKeen Cattell, M.D. [1925; 1959], *Professor of Pharmacology*

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

Anthony C. Cipollaro, M.D. [1948; 1966], *Clinical Professor of Medicine (Dermatology)*
Lloyd F. Craver, M.D. [1934; 1959], *Clinical Professor of Medicine*
Margaret Dann, M.D. [1938; 1967], *Professor of Pediatrics*
Paul F. De Gara, M.D. [1941; 1970], *Clinical Professor of Pediatrics*
John E. Deitrick, M.D. [1935; 1970], *Professor of Medicine*
Edward H. Dennen, M.D. [1933; 1965], *Clinical Professor of Obstetrics and Gynecology*
Oskar Diethelm, M.D. [1936; 1962], *Professor of Psychiatry*
R. Gordon Douglas, M.D. [1932; 1965], *Professor of Obstetrics and Gynecology*
John W. Draper, M.D. [1935; 1972], *Clinical Professor of Surgery (Urology)*
Vincent du Vigneaud, Ph.D. [1938; 1967], *Professor of Biochemistry*
Dayton J. Edwards, Ph.D. [1918; 1950], *Professor of Physiology*
Claude E. Forkner, M.D. [1938; 1966], *Clinical Professor of Medicine*
Richard H. Freyberg, M.D. [1944; 1969], *Clinical Professor of Medicine*
Ralph W. Gause, M.D. [1935; 1972], *Clinical Professor of Obstetrics and Gynecology*
Frank Glenn, M.D. [1932; 1968], *Professor of Surgery*
Harry Gold, M.D. [1922; 1965], *Clinical Professor of Pharmacology*
Phyllis Greenacre, M.D. [1932; 1962], *Clinical Professor of Psychiatry*
Edwin T. Hauser, M.D. [1935; 1961], *Clinical Professor of Medicine*
Louis Hausman, M.D. [1923; 1959], *Clinical Professor of Medicine (Neurology)*
Joseph C. Hinsey, Ph.D. [1936; 1967], *Professor of Neuroanatomy*
Edmund N. Joyner, III, M.D. [1932; 1972], *Professor of Pediatrics*
Milton Levine, M.D. [1933; 1972], *Clinical Professor of Pediatrics*
Asa L. Lincoln, M.D. [1921; 1959], *Clinical Professor of Medicine*
William F. MacFee, M.D. [1936; 1958], *Clinical Professor of Surgery*
John MacLeod, Ph.D. [1941; 1972], *Professor of Anatomy*
Charles M. McLane, M.D. [1932; 1968], *Clinical Professor of Obstetrics and Gynecology*
Ade T. Milhorat, M.D. [1933; 1964], *Clinical Professor of Medicine*
S. W. Moore, M.D. [1932; 1971], *Professor of Surgery*
Joseph N. Nathanson, M.D.C.M. [1926; 1965], *Clinical Professor of Obstetrics and Gynecology*
Robert Lee Patterson, Jr., M.D. [1951; 1972], *Professor of Surgery (Orthopedic)*
Ralph F. Phillips, M.D. [1950; 1968], *Clinical Professor of Radiology*
Paul Reznikoff, M.D. [1924; 1961], *Clinical Professor of Medicine*
Frank R. Smith, M.D. [1932; 1965], *Clinical Professor of Obstetrics and Gynecology*
Israel Steinberg, M.D. [1940; 1967], *Clinical Professor of Radiology*
Lewis D. Stevenson, M.D. [1922; 1957], *Clinical Professor of Medicine (Neurology)*
Harold J. Stewart, M.D. [1932; 1961], *Clinical Professor of Medicine*
John Y. Sugg, Ph.D. [1932; 1969], *Professor of Microbiology*
T. Campbell Thompson, M.D. [1951; 1968], *Clinical Professor of Surgery (Orthopedics)*
Edward Tolstoi, M.D. [1927; 1962], *Clinical Professor of Medicine*

- Preston A. Wade, M.D. [1927; 1968], *Clinical Professor of Surgery*
 James H. Wall, M.D. [1933; 1965], *Clinical Professor of Psychiatry*
 Bruce P. Webster, M.D.C.M. [1932; 1967], *Clinical Professor of Medicine*
 Irving S. Wright, M.D. [1946; 1967], *Clinical Professor of Medicine*

Professors

- Edward H. Ahrens, Jr., *Hilda Altschul Master Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1937, M.D. 1941, Harvard. [1970].
 Benjamin Alexander, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1930, M.D. 1934, Harvard. [1966]
 Virginia Apgar, *Clinical Professor of Pediatrics (Teratology)*. M.D. 1933, Columbia; M.P.H. 1959, Johns Hopkins; Med. Sc.D. (Hon.) 1964, Womens Medical College of Pennsylvania; D.Sc. 1965, Mount Holyoke; Med. Sc.D. 1967, New Jersey College of Medicine and Dentistry; D.Sc. 1969, Boston University. [1972]
 Joseph F. Artusio, Jr., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
 Peter A. McF. Auld, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1970]
 Hugh R. K. Barber, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Associate Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1972]
 William A. Barnes, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, City College of New York; M.D. 1937, Cornell. [1938; 1967]
 Jeremiah A. Barondess, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins. [1953; 1971]
 Alexander G. Bearn, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital. M.B., B.S. 1946, M.D. 1951, University of London; F.R.C.P. (Edin. and London.) [1966]
 Edward J. Beattie, Jr., *Professor of Surgery*. Chairman and Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1965]
 David V. Becker, *Professor of Radiology; Associate Professor of Medicine*. Attending Radiologist, New York Hospital; Associate Attending Physician, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1972]
 E. Lovell Becker, *Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1969]
 J. Michael Bedford, *Professor of Reproductive Biology in Obstetrics and Gynecology*. B.A. 1955, M.A. 1958, Cambridge; Ph.D. 1965, London University. [1972]
 Dorothea Bennett, *Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1971]
 Stanley J. Birnbaum, *Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961; 1971]
 William A. Briscoe, *Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1939, New College, Oxford, England; M.A. 1941, B.M., B.Ch. 1942, D.M. 1951, Oxford University. [1969; 1971]
 Dana C. Brooks, *Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1971]
 J. Robert Buchanan, *Dean; Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1969]
 Joseph H. Burchenal, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
 John J. Burns, *Visiting Professor of Pharmacology*. B.S. 1942, Queens; M.A. 1948, Ph.D. 1950, Columbia. [1968; 1971]
 Eric T. Carlson, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1970]
 Eric J. Cassell, *Clinical Professor of Public Health*. B.A. 1950, Queens, M.A. 1950, Columbia; M.D. 1954, New York University. [1959; 1972]
 Charles L. Christian, *Professor of Medicine*. Attending Physician, New York Hospital; Physician-in-Chief, Hospital for Special Surgery, B.A. 1949, University of Texas; M.D. 1945, Northwestern. Reserve. [1970]
 Giulio J. D'Angio, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia; M.D. 1945, Harvard. [1968]
 Farrington Daniels, Jr., *Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962; 1969]
 E. William Davis, Jr., *Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1971]
 Peter Dineen, *Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1972]
 Vincent P. Dole, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, Stanford; M.D. 1939, Harvard. [1970; 1971]
 Edward A. Dunlap, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1944; 1968]
 Murray Dworetzky, *Clinical Professor of Medicine (Allergy)*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
 Paul A. Ebert, *Johnson and Johnson Distinguished Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. B.S. 1954, M.D. 1958, Ohio State. [1970]
 John T. Ellis, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern. [1948; 1968]
 Mary Allen Engle, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1969]
 Ralph L. Engle, Jr., *Professor of Medicine*. Attending Physician; Director, Division of Medical Systems and Computer Science, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1969]
 John A. Evans, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.A. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
 Aaron Feder, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1938, Maryland. [1941; 1965]
 Arnold N. Fenton, *Clinical Professor of Obstetrics and Gynecology*. Director, Division of Obstetrics and Gynecology, North Shore Hospital. B.A. 1941, Lafayette; M.D. 1944, Columbia. [1960; 1971]
 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; M.A. (Hon.) 1968, Oxford University, England.

52 Faculty

- Joseph G. Fortner, *Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1972]
- Robert H. Freiburger, *Professor of Radiology*. Attending Radiologist, New York Hospital. Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1972]
- Fritz F. Fuchs, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- William P. Given, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1971]
- Henry P. Goldberg, *Clinical Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1971]
- Edward I. Goldsmith, *Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell
- Sanford Goldstone, *Professor of Psychology in Psychiatry*. B.S. 1947, City College of New York; Ph.D. 1953, Duke. [1967]
- Roger L. Greif, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- Susan J. Hadley, *Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1972]
- Francis J. Hamilton, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- Graham G. Hawks, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1971]
- Milton Helsen, *Visiting Professor of Pathology*. B.S. 1922, City College of New York; M.D. 1926, Cornell. [1931; 1966]
- Roy Hertz, *Clinical Professor of Endocrinology in Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1930, Ph.D. 1933, M.D. 1939, Wisconsin; M.P.H. 1940, Johns Hopkins. [1970]
- Lawrence E. Hinkle, Jr., *Professor of Medicine; Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1971]
- Cranston W. Holman, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- Richard W. Hornabrook, *Adjunct Professor of Neurology*. M.B. Ch.B. 1949, M.D. 1955, Otago University (New Zealand). [1972]
- William S. Howland, *Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954; 1968]
- Allan E. Inglis, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital. Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1972]
- William T. Ingram, *Visiting Professor of Engineering in Public Health*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins [1957]
- Donald G. Johnson, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- William H. Kammerer, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. B.S. 1931, M.D. 1935, Indiana. [1941; 1969]
- B. H. Kean, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- Aaron Kellner, *Clinical Professor of Pathology*. Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva College; M.S. 1936, Columbia; M.D. 1939, University of Chicago. [1946; 1968]
- John G. Kidd, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- Thomas Killip III, *Roland Harriman Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1968]
- Richard N. Kohl, *Professor of Psychiatry*, Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1971]
- Elmer E. Kramer, *Professor of Obstetrics and Gynecology; Clinical Professor of Pathology*. Attending Obstetrician and Gynecologist; Attending Pathologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- Robert Landesman, *Clinical Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1971]
- Russell W. Lavengood, Jr., *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1972]
- Eric H. Lenneberg, *Professor of Psychology in Neurology*. B.A. 1949, M.A. 1951, Chicago, Ph.D. 1956, Harvard. [1972]
- John L. Lewis, Jr., *Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Attending Surgeon and Chief, Gynecology Service, Memorial Hospital. B.A. 1952, M.D. 1957, Harvard. [1968; 1971]
- Allyn B. Ley, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- William T. Lhamon, *Barklie McKee Henry Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. Walton Lillehei, *Lewis Atterbury Stimson Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, University of Minnesota. [1967]
- E. Hugh Luckey, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- Walter R. Lynn, *Adjunct Professor of Health Systems Analysis in Public Health*. B.S. 1950, University of Miami; M.S. 1954, North Carolina; Ph.D. 1963, Northwestern.
- Benjamin E. Marbury, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1968]
- Philip D. Marsden, *Visiting Professor of Public Health*. M.B.B.S. 1956, University College Hospital; M.D. 1965, London School of Hygiene and Tropical Medicine. [1967]
- Victor F. Marshall, *James J. Colt Professor of Urology in Surgery*. Attending Surgeon in Charge of Urology, New York Hospital; Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]

- James F. Masterson, Jr., *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson. [1953; 1970]
- Wallace W. McCrory, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- Walsh McDermott, *Professor of Medicine (Public Affairs in Medicine)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1972]
- Fletcher H. McDowell, *Associate Dean; Professor of Neurology*. Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944; Dartmouth; M.D. 1947, Cornell. [1950; 1968]
- John H. McGovern, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1972]
- Paul R. McHugh, *Professor of Psychiatry; Associate Professor of Neurology*. Associate Attending Psychiatrist; Associate Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964; 1971]
- Alton Meister, *Israel Rogosin Professor of Biochemistry (Chairman)*. Biochemist-in-Chief, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- Robert C. Mellors, *Professor of Pathology*. Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- William J. Messinger, *Clinical Professor of Medicine*. Consultant to the Division of Medicine, North Shore Hospital. B.A. 1933, Rochester; M.A., M.D., 1936, George Washington.
- Neal E. Miller, *Clinical Professor of Psychology in Medicine*. B.S. 1931, University of Washington; M.A. 1932, Stanford; Ph.D. 1935, Yale. [1971]
- Theodore R. Miller, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1970]
- Walter Modell, *Professor of Pharmacology*. B.S. 1928, City College of New York; M.D. 1932, Cornell. [1932; 1967]
- James A. Moore, *Professor of Otorhinolaryngology (Acting Chairman)*. Attending Surgeon in Charge of Otorhinolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- Edward Carl Muecke, *Professor of Surgery (Urology)*. Attending Surgeon, New York Hospital. A.B. 1953, Reed College; M.D. 1957, Cornell. [1967; 1972]
- George E. Murphy, *Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1968]
- M. Lois Murphy, *Professor of Pediatrics*. Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1970]
- Carl Muschenheim, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- W. P. Laird Myers, *Professor of Medicine*. Attending Physician, New York Hospital; Chairman and Attending Physician, Department of Medicine, Memorial Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1968]
- Ralph L. Nachman, *Professor of Medicine*. Attending Physician; Director, Division of Hematology, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1972]
- Maria I. New, *Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1971]
- William M. O'Leary, *Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, Pittsburgh. [1959; 1972]
- Russell H. Patterson, Jr., *Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge, New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1960; 1971]
- Ralph E. Peterson, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1940, M.S. 1941; Kansas State; M.D. 1946, Columbia. [1958; 1968]
- Robert F. Pitts, *Maxwell M. Upson Professor of Physiology and Biophysics (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- Fred Plum, *Anne Parrish Titzell Professor of Neurology (Chairman)*. Neurologist-in-Chief, New York Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- Aaron S. Posner, *Professor of Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963; 1969]
- Jerome B. Posner, *Professor of Neurology*. Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1970]
- D. Gordon Potts, *Professor of Radiology*. Attending Radiologist, New York Hospital. B.Sc. Canterbury University College, New Zealand; M.B., Ch. B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967; 1970]
- Julian R. Rachele, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- Bronson S. Ray, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- George G. Reader, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1963; 1972]
- S. Frank Redo, *Professor of Surgery. Clinical Associate Professor of Pediatrics (Surgery)*. Attending Surgeon, New York Hospital. B.S. 1942, Queens; M.D. 1950, Cornell. [1951; 1972]
- Donald J. Reis, *Professor of Neurology*. Attending Neurologist, New York Hospital. A.B. 1953, M.D. 1956, Cornell. [1963; 1971]
- Walter F. Riker, Jr., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- Leonard L. Ross, *Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957, 1971]
- Sidney Rothbard, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951; 1969]
- Albert L. Rubin, *Professor of Biochemistry (Surgery); Professor of Surgery (Biochemistry)*. Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1969]
- Richard A. Ruskin, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1940, M.D. 1943, Duke. [1952; 1972]
- Lee Salk, *Clinical Professor of Psychology in Pediatrics*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, University of Michigan. [1966; 1971]
- Brij B. Saxena, *Professor of Endocrinology in Obstetrics and Gynecology*. Ph.D. 1954, Lucknow (India); Dr.rer.nat. 1957, University of Muenster, West Germany; Ph.D. 1961, Wisconsin. [1966; 1972]
- George Schaefer, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist,

- New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1971]
- William F. Scherer, *Professor of Microbiology (Chairman)*. M.D. 1947, Rochester. [1962]
- Lawrence Scherr, *Acting Associate Dean; Professor of Medicine*. Attending Physician, New York Hospital. Director of the Division of Medicine, North Shore Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1972]
- William N. Schoenfeld, *Clinical Professor of Psychology in Psychiatry*. B.S. 1937, City College of New York; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- Donald M. Shafer, *Clinical Professor of Ophthalmology (Acting Chairman)*. Attending Ophthalmologist, New York Hospital. B.A. 1932, Columbia; M.D. 1936, Cornell. [1958; 1969]
- Arthur K. Shapiro, *Clinical Professor of Psychiatry in Pharmacology*. B.S.S. 1951, City College of New York; M.D. 1955, Chicago. [1966; 1972]
- Richard M. Silberstein, *Clinical Professor of Psychiatry*. A.B. 1944, Dartmouth; M.D. 1946, Pittsburgh. [1968]
- James Smith, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1972]
- Martin Sonenberg, *Professor of Medicine*. Physician to Out-Patients, New York Hospital. Attending Physician, Chief of Endocrinology Service, Memorial Hospital. B.A. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1972]
- Lee Ramsey Straub, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- Roy C. Swan, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- William J. Sweeney III, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1971]
- Howard J. Tatum, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Ph.D. 1941, M.D. 1943, Wisconsin. [1968; 1972]
- Harold L. Temple, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- David D. Thompson, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- Bjorn Thorbjarnarson, *Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1972]
- Marjorie J. Topkins, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1970]
- Douglas P. Torre, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- Alan Van Poznak, *Professor of Anesthesiology; Clinical Associate Professor of Pharmacology*. Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1970]
- Robert F. Watson, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- Joseph P. Whalen, *Professor of Radiology*. Attending Radiologist, New York Hospital. A.B. 1955, Fordham; M.D. 1959, State University of New York (Upstate). [1969; 1971]
- Willet F. Whitmore, Jr., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, New York Hospital. Attending Surgeon and Chief of Urology Service, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]
- John C. Whitsell II, *Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1972]
- Otto A. Will, Jr., *Clinical Professor of Psychiatry*. B.A. 1933, M.D. 1940, Stanford. [1968]
- Philip D. Wilson, Jr., *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1972]
- Erich H. Windhager, *Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1969]

Associate Professors

- Seymour Advocate, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1937, Brooklyn; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1970]
- Fred H. Allen, Jr., *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- Lucien I. Ardlit, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1950, Louisiana State; M.D. 1954, Washington University. [1955; 1970]
- Donald Armstrong, *Associate Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- William D. Arnold, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1971]
- Amir Askari, *Associate Professor of Pharmacology*. B.S. 1953, University of Dubuque; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- Sam C. Atkinson, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- Sulamita Balagura-Baruch, *Associate Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1970]
- Harold A. Baltaxe, *Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. P.C.B. 1952, University of Paris; M.D. 1960, University of Lausanne. [1969; 1972]
- Lloyd T. Barnes, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938; Pennsylvania. [1953; 1969]
- Harvey H. Barten, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1955, M.D. 1959, Harvard. [1965; 1972]
- Charles H. Bauer, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- Carl G. Becker, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- Stanley J. Behrman, *Clinical Associate Professor of Surgery (Dentistry)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1972]
- Arthur R. Beil, Jr., *Associate Professor of Surgery*. Director of the Division of Surgery, North Shore Hospital. A.B. 1955, Brown; M.D. 1959, Cornell. [1960; 1971]
- Carl G. Beling, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute, Stockholm. [1965; 1969]
- Richard Benua, *Associate Professor of Radiology*;

- Associate Professor of Medicine. Attending Physician, Chief of Nuclear Medicine, Memorial Hospital. B.S. 1943, Western Reserve; M.D. 1946, Johns Hopkins; M.S. 1952, University of Minnesota. [1970; 1972]*
- H. Richard Beresford, *Associate Professor of Neurology. Attending Neurologist, North Shore Hospital. B.A. 1952, Yale; J.D. 1955, Harvard; M.D. 1963, Colorado. [1971]*
- Sheldon Blackman, *Clinical Associate Professor of Psychology in Psychiatry. A.B. 1956, Princeton; M.A. 1958, Ph.D. 1960, Ohio State. [1968; 1970]*
- Jack H. Bloch, *Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital. B.A. 1952; M.D. 1957, University of California Los Angeles; Ph.D. 1967, Minnesota. [1968; 1970]*
- Eugene L. Bodian, *Clinical Associate Professor of Medicine. Attending Physician, North Shore Hospital. B.S. 1944, Illinois; M.D. 1952, S.U.N.Y. (Brooklyn). [1972]*
- Roy W. Bonsnes, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]*
- Robert J. Booher, *Clinical Associate Professor of Surgery. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton. [1954; 1970]*
- Norman Brachfeld, *Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1959; 1968]*
- Esther M. Breslow, *Associate Professor of Biochemistry. B.S. 1953, Cornell; M.S. 1955, Ph.D. 1959, New York University. [1961; 1972]*
- Bertram E. Bromberg, *Clinical Associate Professor of Surgery. Attending Surgeon, North Shore Hospital. D.D.S. 1941, Columbia; M.D. 1945, Long Island College of Medicine. [1971; 1972]*
- John L. Brown, *Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1971]*
- Stuart I. Brown, *Clinical Associate Professor of Ophthalmology. Associate Attending Surgeon, New York Hospital. B.M.S. 1955, M.D. 1957, Illinois. [1970]*
- Myron I. Buchman, *Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]*
- Peter G. Bullough, *Associate Professor of Pathology. M.B., Ch.B. 1956, Liverpool University Medical School. [1969; 1971]*
- William G. Cahan, *Associate Professor of Surgery. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1972]*
- Rolla D. Campbell, Jr., *Clinical Associate Professor of Surgery (Orthopedics). Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]*
- Henry A. Carr, *Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]*
- Donald J. Casper, *Clinical Associate Professor of Obstetrics and Gynecology. B.A. 1952, M.D. 1956, New York University. [1972]*
- Walter W. Y. Chan, *Associate Professor of Pharmacology. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1970]*
- Jacob B. Chassan, *Clinical Associate Professor of Statistics in Psychiatry. B.S. 1939, City College (New York); M.A. 1949, Ph.D. 1958, George Washington. [1971]*
- Aaron D. Chaves, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]*
- Florence Chien Hwa-Chu, *Associate Professor of Radiology. Associate Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956; 1969]*
- William N. Christenson, *Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]*
- Bayard D. Clarkson, *Associate Professor of Medicine. Associate Attending Physician, Memorial Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1968]*
- M. David Clayton, *Associate Professor of Psychology in Psychiatry. B.S. 1956, Utah; A.M. 1960, George Washington University; Ph.D. 1963, Washington University.*
- Hartwig Cleve, *Associate Professor of Medicine. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Gottingen. [1968]*
- Eugene E. Clifton, *Clinical Associate Professor of Surgery. Associate Attending Surgeon, New York Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]*
- Eugene J. Cohen, *Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]*
- Jerome L. Covey, *Clinical Associate Professor of Medicine. B.A. 1936, Yale; M.D. 1941, Western Ontario. [1970; 1971]*
- James L. Curtis, *Associate Dean; Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Albion; M.D. 1946, University of Michigan. [1969]*
- B. Shannon Danes, *Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]*
- Helen E. Daniells, *Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]*
- Michael D. F. Deck, *Associate Professor of Radiology. Assistant Attending Radiologist, New York Hospital. M.B.B.S. 1961, University of Sydney, M.C.R.A. 1965, College of Radiologists of Australia; F.F.R. 1967, Royal College of Surgeons, London. [1968; 1972]*
- Michael R. Deddish, *Clinical Associate Professor of Surgery. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]*
- Thomas J. Degnan, *Clinical Associate Professor of Medicine. Chief, Section of Hematology, North Shore Hospital. B.S. 1952, Rutgers; M.D. 1956, New York. [1969; 1971]*
- Robert W. Dickerman, *Associate Professor of Microbiology. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962; 1972]*
- M. Renate Dische, *Associate Professor of Pathology. Associate Attending Pathologist, New York Hospital. B.S. 1941, Immaculata College; Ph.D. 1953, M.D. 1957, Columbia. [1969; 1972]*
- John H. Doherty, *Associate Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1972]*
- John W. Dougherty, *Clinical Associate Professor of Medicine (Dermatology). Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]*
- Howard S. Dunbar, *Clinical Associate Professor of*

- Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- Robert E. Eckardt, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Antioch College; M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve University. [1944; 1970]
- John H. Eckel, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- Kathryn H. Ehlers, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1970]
- William J. Eisenmenger, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- Borje E. Ejrup, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute, Stockholm. [1961; 1964]
- Joseph A. Epstein, *Clinical Associate Professor of Surgery (Neurosurgery)*. B.S. 1938, City College of New York; M.D. 1942, Long Island College of Medicine. [1971; 1972]
- Herbert L. Erlanger, *Clinical Associate Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1972]
- Henry R. Erle, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1970]
- Hollon W. Farr, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1970]
- Joseph H. Farrow, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- Arthur W. Feinberg, *Clinical Associate Professor of Medicine*. B.A. 1943, M.D. 1945, Columbia. [1969]
- Colin Fell, *Associate Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State. [1962; 1971]
- William F. Finn, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, North Shore Hospital. A.B. 1936, Holy Cross; M.D. 1940, Cornell. [1946; 1971]
- Bernard Fisher, *Clinical Associate Professor of Psychology in Psychiatry*. Associate Attending Psychologist, New York Hospital. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, N.Y.U. [1965; 1969]
- Frederic F. Flach, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peters; M.D. 1951, Cornell. [1954; 1962]
- John T. Flynn, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1970]
- William T. Foley, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- Joseph G. Fortner, *Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- Gerard Fountain, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1939, M.D. 1943, Yale. [1956; 1972]
- Walter L. Freedman, *Visiting Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital.
- A.B. 1950, DePauw; M.D. 1954, Cornell. [1960; 1972]
- Alvin H. Freiman, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- Constance Friess, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- Hortense M. Gandy, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1968]
- Henry Gans, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1955, University of Nymegen, Holland; Ph.D. 1964, Minnesota. [1968]
- Martin Gardy, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, City College of New York; M.D. 1960, Cornell. [1963; 1972]
- B. Milton Garfinkle, Jr., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, North Shore Hospital. B.A., 1941, M.D. 1943, University of Pennsylvania.
- William Geller, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- James L. German III, *Clinical Associate Professor of Anatomy; Clinical Associate Professor of Human Genetics in Pediatrics*. Associate Attending Pediatrician, New York Hospital; Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- Michael D. Gershon, *Associate Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1969]
- Helena Gilder, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- Richard J. Glavin, *Clinical Associate Professor of Psychiatry*. Director of the Division of Psychiatry, North Shore Hospital. B.A. 1951, Cornell; M.D. 1955, Rochester. [1970]
- John M. Glynn, *Clinical Associate Professor of Medicine*. Attending Physician, North Shore Hospital. B.S. 1945, Yale; M.D. 1947, Long Island College of Medicine. [1950; 1972]
- Martin J. Glynn, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1968]
- Robert B. Golbey, *Clinical Associate Professor of Medicine*. B.S. 1943, Bethany, M.D. 1949, New York University [1961; 1970]
- Jack Goldstein, *Associate Professor of Biochemistry*. Investigator, New York Blood Center. B.A. 1952, Brooklyn; M.N.S. 1957, Ph.D. 1959, Cornell. [1968]
- George W. Gorham, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1972]
- Mary E. W. Goss, *Associate Professor of Sociology in Public Health*. B.A. 1947, M.A. 1948, State University of Iowa; Ph.D. 1959, Columbia. [1959; 1972]
- Eugene L. Gottfried, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Columbia. [1969]
- Dicran Goulian, Jr., *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1968]
- Harry Grabstald, *Associate Professor of Surgery*

- (Urology). Associate Attending Urologist, Memorial Hospital. B.S. 1944, Southern Methodist; M.D. 1945, Texas. [1959; 1968]
- William R. Grafe, Jr., *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1951, Harvard; M.D. 1955, New York University. [1956; 1972]
- Bernice Grafstein, *Associate Professor of Physiology*. B.A. 1951, University of Toronto; Ph.D. 1954, McGill. [1969]
- George F. Gray, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1956, Texas; M.D., M.S. 1961; Baylor. [1968; 1971]
- Martin A. Green, *Clinical Associate Professor of Neurology*. Attending Physician, North Shore Hospital. B.S. 1942, M.D., 1945, Michigan. [1972]
- J. Conrad Greenwald, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, North Shore Hospital. B.S. 1942, Michigan; M.D. 1945, New York Medical College. [1954; 1971]
- Stanley Gross, *Clinical Associate Professor of Pathology*. Director of Laboratories, North Shore Hospital. B.S. 1936, M.D. 1939, New York University. [1969]
- Margaret T. Grossi, *Clinical Associate Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1970]
- Peter M. Guida, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1972]
- Stephen J. Gulotta, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1954, Brooklyn; M.D. 1958, State University of New York. (New York City) [1961; 1972]
- Keith O. Guthrie, Jr., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1969]
- Thomas C. Guthrie, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1969]
- Wilbur D. Hagamen, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- James Q. Haralambie, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1968]
- Peter C. Harpel, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Harvard. [1963; 1972]
- Rudy H. Haschemeyer, *Associate Professor of Biochemistry*. B.A. 1952, Carthage College; Ph.D. 1957, Illinois. [1967; 1970]
- Lawrence J. Hatterer, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1968]
- Margaret C. Heagarty, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1957, Seton Hall; B.S. 1959, West Virginia; M.D. 1961, Pennsylvania. [1968; 1971]
- Leonard Heimoff, *Clinical Associate Professor of Medicine; Clinical Associate Professor in Public Health*. Associate Attending Physician, New York Hospital. A.B. 1934, University of Alabama; M.D. 1939, University of Maryland. [1946; 1972]
- Henry O. Heinemann, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, University of Amsterdam. [1968]
- Richard Herrmann, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1951; M.D. 1955, Columbia. [1961; 1971]
- Basil S. Hilaris, *Clinical Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1972]
- Lawrence B. Hobson, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]
- Raymond B. Hochman, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1972]
- James M. Holman, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1969]
- George R. Holswade, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- Melvin Horwith, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1948, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- S. Theodore Horwitz, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, North Shore Hospital. B.A. 1956, Hobart; M.D. 1960, State University of New York (Brooklyn). [1972]
- Raymond W. Houde, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- William Insull, Jr., *Associate Professor of Pathology*. B.S. 1945, University of Michigan; M.D. 1949, Johns Hopkins. [1972]
- Bernard Jacobs, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1943, University College, London. [1961; 1967]
- Myron Jacobs, *Adjunct Associate Professor of Anatomy*. B.A. 1945, University of Pennsylvania; M.S. 1951, Ph.D. 1955, New York University. [1972]
- Abraham Jacobson, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1932, M.A. 1933, Columbia; M.D. 1940, New York University [1955; 1967]
- Norman B. Javitt, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1947, Syracuse; Ph.D. 1951, North Carolina; M.D. 1954, Duke. [1968]
- Helen S. Kaplan, *Clinical Associate Professor of Psychiatry*. B.A. 1951, Syracuse; M.A. 1952, Ph.D. 1955, Columbia; M.D. 1959, New York University. [1970]
- J. Harry Katz, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1971]
- Herbert M. Katzin, *Clinical Associate Professor of Ophthalmology*. M.D. 1937, Harvard. [1970]
- George L. Kauer, Jr., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- John G. Keuhnelian, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. A.B. 1947, Princeton; M.D. 1951, University of Pennsylvania. [1955; 1972]
- Ari Kiev, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. Associate Attending Psychiatrist, New York Hospital. A.B. 1954, Harvard; M.D. 1958, Cornell. [1967]

- Anne C. Kimball, *Associate Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, University of Pennsylvania. [1963; 1972]
- Frederic T. Kirkham, Jr., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
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- Martin Lipkin, *Associate Professor of Medicine*. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
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- Maurice Shiels, *Associate Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962; 1967]
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- Alvin N. Ehrlich, *Clinical Assistant Professor of Medicine*. A.B. 1956, Lafayette; M.D. 1960, State University of New York at New York City. [1965; 1972]
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- Thomas J. Fahey, Jr., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1955, Fordham; M.D. 1959, Cornell. [1965; 1967]
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- Karl Neumann, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Syracuse; M.D. 1958, State University of New York (Brooklyn). [1962; 1968]
- Piero O. Niceta, *Clinical Assistant Professor of Surgery*. M.D. 1958, University of Milan (Italy). [1971]
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- Leonard H. Schuyler, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- Gabriel H. Schwartz, *Assistant Professor of Biochemistry (Surgery)*. Assistant Attending Surgeon, New York Hospital. A.B. 1958, Princeton; M.D. 1962, Columbia. [1966; 1969]
- Jerold Schwartz, *Clinical Assistant Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital. A. B. 1952, Columbia; M.D. 1956, New York Medical College. [1961; 1972]
- Samuel Seal, *Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- Victoria Sears, *Clinical Assistant Professor of Psychiatry*. B.A. 1950, N.Y.U.; M.D. 1958, University of Geneva (Switzerland).
- William T. Seed, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Williams; M.D. 1962, Cornell. [1966; 1968]
- Edward E. Seelye, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1948, Columbia; M.D. 1955, Albany. [1958; 1968]
- Frank A. Seixas, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Cornell; M.A. 1947, M.D. 1951, Columbia. [1955; 1968]
- Henry M. Selby, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- Michael A. Selzer, *Clinical Assistant Professor of Psychiatry; Clinical Assistant Professor of Psychiatry in Pediatrics*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Stanford; M.D. 1960, Western Reserve. [1966; 1967]
- John H. Seward, *Clinical Assistant Professor of Otorhinolaryngology*. B.S. 1956, M.A. 1958, Duke; M.D.

- 1961, New York. [1962; 1970]
- Charles A. Shamoian, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1954, M.A. 1956, Clark; Ph.D. 1960; M.D. 1966, Tufts. [1966; 1971]
- Elaine Shapiro, *Clinical Assistant Professor of Psychiatry*. B.A. 1953, City College of New York; Ph.D. 1963, University of Chicago. [1969; 1972]
- William R. Shapiro, *Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1958, University of California (Los Angeles); M.D. 1961, University of California (San Francisco). [1963; 1969]
- Charles Sheard III, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians, Canada. [1951; 1960]
- Raymond L. Sherman, *Assistant Professor of Medicine*. A.B. 1956, Columbia; M.D. 1961, S.U.N.Y. (New York City). [1968; 1970]
- Madoka Shibuya, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1962; 1966]
- Helen N. Siegrist, *Assistant Professor of Social Work in Psychiatry*. B.A. 1930, Wellesley; M.S.W. 1932, New York School of Social Work. [1959; 1969]
- Leonard R. Sillman, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1933, M.D. 1937, Chicago. [1970]
- Frederick Silverman, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory; M.D. 1953, Indiana. [1957; 1968]
- Gerald M. Silverman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- Harry A. Sinclair, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, Amherst; M.D. 1946, Cornell. [1949; 1968]
- James P. Smith, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]
- Julius Smith, *Assistant Professor of Radiology*. M.B., Ch.B., 1954, University of Cape Town Medical School; M.R.C.P. 1963, Royal College of Physicians (London); F.F.R. 1968, F.F.R. Faculty of Radiology (England) [1970]
- Nora Smith, *Clinical Assistant Professor of Psychiatry*. B.S. 1956, Brooklyn; M.D. 1960, State University of New York (Downstate). [1969; 1972]
- Ruth E. Snyder, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- Stuart S. Snyder, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital, B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- David E. Sobel, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1956, Cornell; M.D. 1961, Albert Einstein. [1966; 1972]
- David Soifer, *Visiting Assistant Professor of Anatomy*. B.S. 1961, Columbia; Ph.D. 1969, Cornell. [1963; 1971]
- Gail E. Solomon, *Assistant Professor of Neurology in Pediatrics*. Assistant Professor of Neurology. Assistant Attending Physician, New York Hospital. A.B. 1958, Smith; M.D. 1962, Albert Einstein. [1969; 1970]
- Henry A. Solomon, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1958, M.D. 1962, Columbia. [1969; 1971]
- Josef Soloway, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1956, Brown; M.D. 1960, New York University. [1961; 1970]
- James H. Spencer, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]
- Herbert J. Spoor, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1934, University of Washington; Ph.D. 1940, Ohio State; M.D. 1945, New York University. [1957; 1972]
- Tom G. Stauffer, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]
- Charles R. Steinberg, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1960, Brown; M.D. 1964, Cornell. [1965; 1972]
- Peter H. Stern, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]
- Norma W. Sternberg, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, Memorial Hospital. M.D. 1955, Universidade de Sao Paulo (Brazil). [1958; 1970]
- Laurence Strauss, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, North Shore Hospital. B.S. 1937, Columbia; M.D. 1943, Middlesex. [1953; 1971]
- John F. Struve, *Clinical Assistant Professor of Otorhinolaryngology*. Associate Attending Otorhinolaryngologist, New York Hospital. A.B. 1943, Allegheny; M.D. 1947, Jefferson. [1950; 1969]
- William T. Stubenbord, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1958, Yale; M.D. 1962, Cornell. [1962; 1972]
- Joseph D. Sullivan, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- Myron Susin, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital B.A. 1956, Augustana College; M.D. 1960, Illinois. [1969]
- David Susman, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. M.D. 1962, Queen's University (Canada). [1963; 1969]
- Richard D. Sweet, *Assistant Professor of Neurology*. B.S. 1960, Wisconsin; M.D. 1963, Washington University (St. Louis). [1967; 1972]
- Marguerite P. Sykes, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- Suresh S. Tate, *Assistant Professor of Biochemistry*. B.S. 1958; M.Sc. 1960, University of Baroda (India); Ph.D. 1963, University College (London). [1967; 1972]
- Robert Thoburn, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1963, Florida. [1970]
- Robert J. Timberger, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Cornell. [1961; 1970]
- Lester M. Tourk, *Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). B.B.A. 1962, M.S. 1965, City College of New York; Ph.D. 1969, Pittsburgh. [1969]
- Lewis N. Travis, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1951, Harvard; M.D., B.S. 1960, Middlesex Hospital Medical School (England). [1965; 1970]
- Peter Tsairis, *Assistant Professor of Neurology*. B.S.

- 1960, Trinity; M.D. 1965, Cornell. [1971]
- Alice Ullmann, *Assistant Professor of Social Work in Medicine. Assistant Professor of Social Work in Public Health. Casework Supervisor, New York Hospital. B.A. 1947, Manchester (England); M.S.W. 1952, Columbia. [1962; 1972]*
- Thornton A. Vandersall, *Assistant Professor of Psychiatry. A.B. 1950, Wooster; M.D. 1954, Jefferson. [1969; 1971]*
- Konstantin P. Veliskakis, *Clinical Assistant Professor of Surgery (Orthopedics). Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, American University of Beirut. [1967; 1971]*
- Leonard Vinnick, *Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1956, Muhlenberg; M.D. 1960, Jefferson Medical College. [1969; 1972]*
- Louis J. Vorhaus, *Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]*
- Gary I. Wadler, *Assistant Professor of Medicine. Assistant Attending Physician, North Shore Hospital. B.S. 1960, Brooklyn; M.D. 1964, Cornell. [1965; 1970]*
- Peter S. Walker, *Assistant Professor of Bioengineering in Surgery (Orthopedics). Project Engineer, Bioengineering Department, Hospital for Special Surgery. B.A. 1963, M.A. 1966, Cambridge University; Ph.D. 1969, Leeds University (England). [1969]*
- Lila A. Wallis, *Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]*
- James R. Ware, *Clinical Assistant Professor of Psychiatry. Psychiatrist to Out-Patients (Westchester Div.) A.B. 1949, Harvard; M.D. 1953, Columbia. [1966; 1972]*
- Porter H. Warren, *Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1952, Tulane. [1961; 1968]*
- Claude G. Wasterlain, *Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. M.D. 1961, University of Liege (Belgium). [1964; 1970]*
- Carolyn W. Watson, *Clinical Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]*
- Henriette L. Wayne, *Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]*
- John Weber, *Assistant Professor of Anatomy. B.A. 1961, D.D.S. 1965, Columbia. [1967; 1969]*
- Clinton G. Weiman, *Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]*
- Aaron D. Weiner, *Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1940, Brooklyn; M.D. 1951, Harvard. [1970]*
- Howard S. Weiss, *Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore Hospital. B.S. 1952, Wagner; M.D. 1956, New York University. [1964; 1971]*
- Jay M. Weiss, *Clinical Assistant Professor of Psychiatry in Medicine. B.A. 1962, Lafayette; Ph.D. 1967, Yale. [1970]*
- Babette B. Weksler, *Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1958, Swarthmore; M.D. 1963, Columbia. [1968; 1970]*
- Marc E. Weksler, *Assistant Professor of Medicine. B.A. 1958, Swarthmore; M.D. 1962, Columbia. [1968; 1970]*
- Virginia Werden, *Clinical Assistant Professor of Obstetrics and Gynecology. B.A. 1935, Pennsylvania State; M.D. 1948, University of Pennsylvania. [1955; 1972]*
- William D. Wheat, *Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]*
- Paul C. White Jr., *Clinical Assistant Professor of Medicine. A.B. 1950, Mercer; M.S. 1952, Florida State; M.D. 1960, Emory; M.P.H. and T.M. 1962, Tulane. [1972]*
- Alden E. Whitney, *Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Clark; M.D. 1959 Cornell. [1967; 1971]*
- Carl Wierum, *Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]*
- Gary Wilner, *Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1961, M.D. 1967, University of Maryland. [1970; 1972]*
- Peter G. Wilson, *Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]*
- Patricia H. Winchester, *Assistant Professor of Radiology in Pediatrics; Assistant Professor of Radiology. Attending Radiologist, New York Hospital. B.S. 1955, M.D. 1959, Duke. [1960; 1970]*
- Robert J. Winchester, *Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1958, Manhattan; M.D. 1963, Cornell. [1964; 1972]*
- Michael J. Wolk, *Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1960, Colgate; M.D. 1964, Columbia. [1969]*
- Jack F. Woodruff, *Assistant Professor of Pathology. Assistant Pathologist, New York Hospital. B.A. 1958, University of Massachusetts; M.D. 1962, Temple. [1970; 1971]*
- Katsuhiko Yano, *Assistant Professor of Public Health. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, (Japan). [1967]*
- Alvin R. Yapalater, *Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943, Oklahoma; M.D. 1946, Tulane. [1966]*
- Samuel D. J. Yeh, *Assistant Professor of Medicine. M.D. 1948, National Defense Medical Center, Shanghai; D.Sc. 1954, Johns Hopkins. [1965; 1969]*
- Charles W. Young, *Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]*
- Lowell S. Young, *Assistant Professor of Medicine. A.B. 1960, Princeton; M.D. 1964, Harvard. [1965; 1972]*
- Louis C. Zang, *Assistant Professor of Psychiatry. M.D. 1946, Baylor. [1969; 1970]*
- Stanley S. Zipser, *Clinical Assistant Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]*
- Philip H. Zweifach, *Clinical Assistant Professor of Neurology, Ophthalmology; Clinical Assistant Professor of Ophthalmology. Assistant Attending Neurologist, New York Hospital. B.S. 1957, City College of New York; M.D. 1961, Cornell. [1965; 1970]*

Internship Appointments

Class of 1972

- Dianne D. Aronian, *Medicine; Lenox Hill Hospital, New York, New York*
- Frank J. Bia, *Medicine; University of Pennsylvania Hospital, Philadelphia, Pennsylvania*

72 Internship Appointments

- Margaret J. Bia, *Medicine*; University of Pennsylvania Hospital, Philadelphia, Pennsylvania
- Kenneth R. Blanchard, *Medicine*; The New York Hospital, New York, New York
- Peter A. Blasco, *Pediatrics*; Johns Hopkins Hospital, Baltimore, Maryland
- John T. Boyle, *Pediatrics*; New England Medical Center, Boston, Massachusetts
- Bruce L. Burgreen, *Medicine*; Eugene Talmadge Memorial Hospital, Georgia
- Robert W. Carlson, *Medicine*; University of New Mexico Hospitals, Albuquerque, New Mexico
- Thomas W. Castaldo, *Rotating 3*; North Shore-Memorial, Manhasset, New York
- James H. Clifford, *Rotating 3*; University of Miami Hospitals, Miami, Florida
- John B. Coombs, *Pediatrics*; Childrens Orthopedic Hospital, Seattle, Washington
- Thomas J. Crawford, *Medicine*; The New York Hospital, New York, New York
- Henry L. deGive, *Pediatrics*; The New York Hospital, New York, New York
- Robert Gary DeLong, *Surgery*; Beth Israel Hospital, Boston, Massachusetts
- Patricia A. Duerr, *Medicine*; The New York Hospital, New York, New York
- Lawrence H. Ehrlich, *Medicine*; Mount Sinai Hospital, New York, New York
- Lawrence Eisenhauer, *Rotating 0*; Harborview Center, Seattle, Washington
- Martin P. Elliott, *Surgery*; Orange County Medical Center, Irvine, California
- Robert P. Ferguson, *Rotating 3*; North Shore-Memorial Manhasset, New York
- Frederick J. Ferlic, *Surgery*; University of Minnesota Hospitals, Minneapolis, Minnesota
- David S. Folland, *Pediatrics*; Childrens Hospital of Philadelphia, Philadelphia, Pennsylvania
- William W. Frayer, *Pediatrics*; The New York Hospital, New York, New York
- Marc J. Friedman, *Surgery*; U.C.L.A. Affiliated Hospitals, Los Angeles, California
- Steven M. Friedman, *Medicine*; The New York Hospital, New York, New York
- James E. Gadek, *Medicine*; Boston City Hospital, Boston, Massachusetts
- Frank W. Gamache, *Surgery*; The New York Hospital, New York, New York
- Ralph J. Gemelli, *Medicine*; Bethesda Naval Hospital, Bethesda, Maryland
- Robert Goldendranz, *Surgery*; The New York Hospital, New York, New York
- Thomas W. Griffin, *Medicine*; Peter Bent Brigham Hospital, Boston, Massachusetts
- Robert R. Hackford, *Rotating 9*; Maine Medical Center, Portland, Maine
- Newell A. Hargett, *Medicine*; Roosevelt Hospital, New York, New York
- Daniel M. Hayes, *Medicine*; North Shore-Memorial, Manhasset, New York
- Paul G. Hess, *Medicine*; The New York Hospital, New York, New York
- I. Mark Hiatt, *Pediatrics*; The New York Hospital, New York, New York
- Jonathan W. Hopkins, *Surgery*; The New York Hospital, New York, New York
- James W. Husted, *Med.-Path.*; Bellevue Hospital Center, New York, New York
- Barton Inkeles, *Medicine*; The New York Hospital, New York, New York
- Charles I. Jarowski, *Medicine*; The New York Hospital, New York, New York
- John W. Jaski, *Medicine*; North Shore-Memorial, Manhasset, New York
- David C. Jimerson, *Psychiatry*; University Hospital of San Diego County, San Diego, California
- Ralph M. Kamell, *Medicine*; Orange County Medical Center, Orange, California
- Michael J. Kaminsky, *Psychiatry*; Denver General Hospital, Denver, Colorado
- Glen R. Karchner, *Rotating 9*; San Bernardino County Hospital, San Bernardino, California
- Kenneth S. Kelleher, *Surgery*; The New York Hospital, New York, New York
- Martin B. Keller, *Psychiatry*; Bellevue Hospital Center, New York, New York
- Thomas L. Kennedy, *Pediatrics*; Childrens Hospital of Philadelphia, Pennsylvania
- Bart P. Ketover, *Medicine*; The New York Hospital, New York, New York
- William B. Kleinman, *Surgery*; University of Colorado Affli. Hospitals, Denver, Colorado
- Thomas M. Krop, *Medicine*; New England Medical Center, Boston, Massachusetts
- Mary Kukolich, *Pediatrics*; The New York Hospital, New York, New York
- Michael H. Lavyne, *Surgery*; Beth Israel Hospital, Boston, Massachusetts
- Daniel L. Leary, *Medicine*; North Shore-Memorial, Manhasset, New York
- Bruce K. Lloyd, *Medicine*; Johns Hopkins Hospital, Baltimore, Maryland
- Neil R. MacIntyre, *Medicine*; The New York Hospital, New York, New York
- Phillip H. Maguire, *Family Practice*; Hershey Medical Center, Hershey, Pennsylvania
- Jonathan Mardirossian, *Medicine*; The New York Hospital, New York, New York
- Henry Masur, *Medicine*; The New York Hospital, New York, New York
- Richard E. Mattison, *Pediatrics*; Buffalo Children's Hospital, Buffalo, New York
- Paul T. McDonald, *Surgery*; Letterman General Hospital, San Francisco, California
- Donald H. Morgan, *Medicine*; University of Michigan Affiliated Hospitals, Ann Arbor, Michigan
- Henry W. Murray, *Medicine*; The New York Hospital, New York, New York
- Michael A. Mustille, *Medicine*; University of California Hospital, San Francisco, California
- Peter E. Nielsen, *Medicine*; Bethesda Naval Hospital, Bethesda, Maryland
- Michael Panio, *Surgery*; The New York Hospital, New York, New York
- Joseph E. Parrillo, *Medicine*; The Massachusetts General Hospital, Boston, Massachusetts
- James B. Peake, *Surgery*; Brooke General Hospital, San Antonio, Texas
- James S. Reilly, *Medicine*; The New York Hospital, New York, New York
- Robert J. Riesenfeld, *Rotating 4*; San Francisco General Hospital, San Francisco, California
- Peter S. Robinson, *Surgery*; Mary Hitchcock Memorial Hospital, Hanover, New Hampshire
- Jon A. Rothenberg, *Medicine*; Harlem Hospital, New York, New York
- Brian R. Rutley, *Rotating 9*; Hospital of the Good Samaritan, Los Angeles, California
- Judith A. Scheraga, *Medicine*; Pennsylvania Hospital, Philadelphia, Pennsylvania
- W. Norman Scott, *Surgery*; Roosevelt Hospital, New York, New York
- Ryan S. Searle, *Medicine*; North Carolina Memorial Hospital, Chapel Hill, North Carolina
- Geoffrey W. Sheridan, *Surgery*; University of Washington Hospitals, Seattle, Washington
- Barry Smith, *Surgery*; The New York Hospital, New York, New York

Joseph L. Smith, *Medicine*; Hershey Medical Center, Hershey, Pennsylvania
 Thomas W. Smith, *Pathology*; The New York Hospital, New York, New York
 James M. Sprott, *Medicine*; University of New Mexico Hospitals, Albuquerque, New Mexico
 Dorothy J. Stein, *Pediatrics*; Montefiore Hospital, Bronx, New York
 Mark A. Sullivan, *Medicine*; The New York Hospital, New York, New York
 Karl C. Sze, *Medicine*; The New York Hospital, New York, New York
 Frederick Tabachnick, *Medicine*; St. Louis Jewish Hospital, St. Louis, Missouri
 Richard H. Tuck, *Pediatrics*; Strong Memorial Hospital, Rochester, New York
 Richard W. Urbanek, *Medicine*; Cedars Sinai Medical Center, Los Angeles, California
 Jeffrey D. Urman, *Medicine*; Washington Hospital, Washington, District of Columbia
 August J. Valenti, *Medicine*; The New York Hospital, New York, New York
 Mark Vrana, *Medicine*; University of California Hospitals, San Francisco, California
 Robert A. Weinstein, *Medicine*; Barnes Hospital, St. Louis, Missouri
 R. Glen Wiggans, *Medicine*; Georgetown University Hospital, District of Columbia
 Donald D. Wilson, *Medicine*; Roosevelt Hospital, New York, New York
 Stephen G. Wood, *Rotating 9*; Harlem Hospital, New York, New York

Students, 1972-73

The name of each student is followed by his degrees, including date and place received, and his home address.

Fourth Year

Robert Irving Appel, B.A. 1969, Columbia University; New York, New York
 John Richard Batiuchok, B.A. 1969, Princeton University; Flushing, New York
 Neil Arnold Beinhaker, B.A. 1969, Princeton University; Union, New Jersey
 Stuart Michael Bergman, B.A. 1969, Harpur College; Cedarhurst, New York
 James Lawrence Bernat, B.A. 1969, University of Massachusetts; Cincinnati, Ohio
 Robert John Berry, B.S. 1968, University of Utah; Golden, Colorado
 William Roscoe Blankenship, B.A. 1969, University of Nebraska; Lincoln, Nebraska
 Esther Skorr Bleier, B.S. 1969, City College of New York; New York, New York
 Henry Robert Bleier, B.S. 1969, City College of New York; New York, New York
 William Charles Bond, B.S. 1962, United States Naval Academy; Memphis, Tennessee
 Francis Joseph Browne, B.S. 1969, Georgetown University; Brooklyn, New York
 Amelia Burnham, B.A. 1969, Middlebury College; Bethesda, Maryland
 Richard Michael Cabot, B.S. 1968, Dickinson College; Ardsley, New York
 David Jay Caro, B.A. 1969, University of Chicago; Hackensack, New Jersey
 Nora Cooke, B.S., 1968, Tulane University; Mexico City, Mexico*

*On leave of absence, research fellowship.

Peter James Corines, B.S. 1969, Rensselaer Polytechnic Institute; Brooklyn, New York
 Ralph Carl Dilorio, B.A. 1969, Fordham University; Yonkers, New York
 William Augustus Donnelly, Jr., B.A. 1968, Yale University; Weston, Vermont
 Craig Bruce DuMond, B.S. 1969, Cornell University; Walton, New York
 Allen Marshall Epstein, B.A. 1969, New York University; Brooklyn, New York
 Lonnie Marc Epstein, B.S. 1969, Dickinson College; Pound Ridge, New York
 Joseph Feinberg, A.B. 1969, Cornell University; Westbury, New York
 Gregory Alan Filice, B.A. 1969, University of California (Berkeley); Orinda, California
 Bertram Martin Froehly, Jr., B.S. 1969, Tulane University; Vandalia, Illinois
 Allan Gibofsky, B.S. 1969, Brooklyn College; New York, New York
 George Mendel Goldmark, B.S., M.S., 1969, Massachusetts Institute of Technology; New York, New York
 Harry Goldmark, B.S., M.S. 1969, Massachusetts Institute of Technology; New York, New York
 Howard Monroe Greilshheimer, B.S. 1969, City College of New York; New York, New York
 Douglas Russell Hadley, B.A. 1969, University of Utah; Salt Lake City, Utah
 Edward Louis Hedlund, B.S. 1969, Iowa Wesleyan College; Ottumwa, Iowa
 William Peden Homan, B.A. 1969, Williams College; White Plains, New York
 David Daniel Hunt, B.S. 1969, University of Washington; Ferndale, Washington
 Richard Paul Ingrassci, A.B. 1969, Cornell University; Niagara Falls, New York
 Jonathan Eliot Kaplan, A.B. 1969, Cornell University; Columbus, Ohio*

Stephen Rogers Karl, A.B. 1969, Cornell University; Etna, New Hampshire*

Allan Lee Kayne, B.A. 1969, University of Virginia; Richmond, Virginia
 Thomas Joseph Kinane, B.S. 1966, United States Military Academy; Brooklyn, New York
 Daniel Benjamin Klein, B.A. 1969, Dartmouth College; Glen Cove, New York
 Mark Steven Joel Klempner, Tulane University; Miami Beach, Florida
 Lawrence William Koblenz, B.A. 1969, Columbia University; New York, New York
 Jerold Jay Kreisman, B.S. 1969, Washington University; St. Louis, Missouri
 Roy Gerald Kulick, B.A. 1969; New York University; Bronx, New York
 Paul Bruce Lang, B.A. 1969, New York University; Flushing, New York
 Gerard Vincent LaSalle, B.A. 1969, Reed College; Portland, Oregon
 Charles Steven Levy, A.B. 1969, Washington University; Butler, Missouri
 Gary Charles Linn, A.B. 1969, Rutgers University; Union City, New Jersey
 Richard Michael Linchitz, A.B. 1967, Cornell University; Roslyn, New York
 Benjamin Alan Lipsky, B.A. 1969, Queens College; New York, New York
 Dennis Joseph Lutz, B.S. 1969, Montana State University; Havre, Montana
 John Joseph Malgieri, B.A. 1969, College of the Holy Cross; Crestwood, New York
 Albert Henry Mangold, B.S. 1969, Union College; Albany, New York

* On leave of absence, research fellowship.

74 Students

- Mark Harris Mazur, B.S. 1969, Brooklyn College; New York, New York
- Dennis Bernard McIntyre, A.B. 1969, Fordham University; Port Washington, New York*
- Philip John McWhorter, B.S. 1969, St. Lawrence University; Argyle, New York
- Paul Alan Menitoff, B.J.Ed. 1967, Hebrew Teachers College; B.A. 1969, Harvard University; Chestnut Hill, Massachusetts
- John Albert Michal III, A.B. 1969, Cornell University; Homewood, Illinois
- Jay Allan Midwall, B.A. 1969, Queens College; Forest Hills, New York
- John Pope Mitchell, A.B. 1969, Cornell University; Brooklyn, New York
- Michael John Murphy, A.B. 1969, Northwestern University; Neenah, Wisconsin
- Stuart Bruce Mushlin, B.A. 1969, University of Rochester; New City, New York
- John Tobias Nagerney, A.B. 1967, Harvard University; Cornwall, New York
- Peter T. Nieh, A.B. 1969, Cornell University; New Hyde Park, New York
- Terrence Adams O'Malley, B.A. 1969, Amherst College; Amherst, Massachusetts
- Neil Edward Pauker, A.B. 1969, Princeton University; Kingston, New York
- Jon Arthur Perlman, B.A. 1969, Lafayette College; Belle Harbor, New York
- Jeffrey Manning Piehler, B.A. 1969, Williams College; Williamstown, Massachusetts
- Vincent Gregory Pons, B.S. 1969, Georgetown University; Belleville, New Jersey
- Joseph Anthony Putrino, B.S. 1969, St. Peter's College; Union City, New Jersey
- John Christopher Quatromoni, B.A. 1969, Fordham University; Milton, Massachusetts
- Neil Douglas Ravin, A.B. 1969, Brown University; Bethesda, Maryland
- Lawrence Tuck Reese, B.A. 1969, New York University; Flushing, New York
- Brendan Michael Reilly, B.A. 1969, Fordham University; New York, New York
- Philip Cullen Reilly, B.A. 1968, Fordham University; New York, New York
- William Marvin Riedesel II, B.A. 1968, University of Rochester; Denver, Colorado
- John Francis Romano, B.S. 1969, St. Peter's College; Staten Island, New York
- Stanley Harvey Rosenbaum, A.B. 1967, Columbia University; M.A. 1969, Harvard University; Brooklyn, New York
- Michael Wayland Rubottom, B.S. 1968, San Diego State College; La Mesa, California
- Richard Joseph Ryter, B.A. 1969, College of the Holy Cross; West Hartford, Connecticut
- Arthur Barry Sanders, B.A. 1969, Brooklyn College; New York, New York
- William Michael Scheld, B.S. 1969, Cornell University; Ithaca, New York
- Edward Michael Sessa, B.A. 1969, College of the Holy Cross; Bronxville, New York
- Clifford Jay Simon, B.A. 1967, Swarthmore College; Tenafly, New Jersey
- Mark Charles Sivakoff, B.A. 1969, Queens College; Flushing, New York
- Jechezkiel Jack Skowronski, B.A. 1969, Brandeis University; Bridgeport, Connecticut
- Sherman Gordon Sorensen, B.A. 1969, University of Utah; Salt Lake City, Utah
- Jerome William Takiff, B.A. 1968, Rutgers University; Elizabeth, New Jersey
- William Farnham Taylor, B.A. 1969, Yale University; Byram, Connecticut
- JoAnn Theodore, B.A. 1969, Cornell University; Lake Placid, New York
- Richard Englund Tosi, B.S. 1969, Trinity College; Shrewsbury, Massachusetts
- Robert Keith Von Rueden, B.A. 1969, University of Notre Dame; East Troy, Wisconsin
- Franzanne Vreeland, A.B. 1969, Cornell University; Schenectady, New York
- Brian Keith Walker, B.A. 1969, Princeton University; University Park, Pennsylvania
- Nicholas Geoffrey Ward A.B. 1969, Cornell University; Green Village, New Jersey
- Jeffrey Stephen Wasser, B.A. 1969, Rutgers University; Somerville, New Jersey
- David Zigelman, B.A. 1969, Yeshiva University; North Bergen, New Jersey

Third Year

- Victor Paul Addonizio, B.A. 1970, New York University; Brooklyn, New York
- John Bruce Bartolini, A.B. 1970, Cornell University; Morristown, New Jersey
- Frederick Calvin Basilico, B.S. 1970, Fairfield University; Providence, Rhode Island
- Charles Francis Besanceney, B.S. 1968, United States Military Academy; Elmira, New York
- Rita Ann Blanchard, B.A. 1966, Vassar College; New York, New York
- James Ferdinand Caravelli, B.S. 1970, University of Illinois; No. Chicago, Illinois
- Dominick Raymond Chiarieri, B.S. 1970, St. Peter's College; Belleville, New Jersey
- Arvin Hong Chin, B.S. 1970, Cornell University; Queens, New York
- Michael Alton Chizner, B.A. 1970, New York University; Lawrence, New York
- Steven Norton Cohen, A.B. 1970, Boston University; Hartford, Connecticut
- Sol Jay Dan, B.A. 1970, Yeshiva University; Memphis, Tennessee
- Allan Roy De Jong, A.B. 1970, Colgate University; Hawthorne, New Jersey
- George Caldwell Ellis, B.A. 1970, Brown University; New York, New York
- John Benjamin Famiglietti, B.S. 1970, St. Peter's College; Jersey City, New Jersey
- Joseph Finkelstein, B.A. 1970, Hofstra University; New York, New York
- Alan Jerry Friedman, B.A. 1970, University of Pennsylvania; Flushing, New York
- David Roger Fulton, A.B. 1970, Clark University; Scarsdale, New York
- Roger Dale Gingrich, B.A. 1970, Macalester College; Roanoke, Illinois
- Burton Mark Gold, B.A. 1970, New York University; New Rochelle, New York
- Alan Warren Goldfeder B.S. 1970, McGill University; Norwalk, Connecticut
- Daniel Benjamin Goodman, B.A. 1970, Yale University; North Caldwell, New Jersey
- Terrence Lynn Goodman, A.B. 1970, Cornell University; Williamsport, Pennsylvania
- Jane Margaret Grant, A.B. 1971, Smith College; Rye, New York
- Steven Ifor Gutman, B.S. 1970, Ohio State University; Dayton, Ohio
- Roger Pettit Harrie, B.S. 1970, University of Utah; Salt Lake City, Utah
- Joseph Laverne Harris, B.S. 1970, American University; Washington, D.C.

* On leave if absence, research fellowship.

- Henry Jim Hernandez, B.A. 1970, City College of New York; Bronx, New York
- Marsha Fretwell Heuser, B.A. 1965, Mary Washington College; Winchester, Virginia
- Roger Glennie Hicks, A.B. 1970, Brown University; Rochester, New York
- Stephen Lev Hoffman, B.A. 1970, University of Pennsylvania; Deal Park, New Jersey
- George Perry Hubert, B.S. 1967, United States Military Academy; Merrick, New York
- Cosmo Gordon Jacobs, B.A. 1970, Hampton Institute; Antigua, West Indies
- Alan Howard Jaffe, B.A. 1970, Amherst College; Great Neck, New York
- Marc Edward Kaminsky, B.A. 1970, Emory University; Savannah Georgia
- Eric John Kawaoka, B.A. 1970, University of Hawaii; Honolulu, Hawaii
- Barry Dana Kels, B.A. 1970, Franklin and Marshall College; Merrick, New York
- Paul King, B.A. 1965, Brooklyn College; M.S. 1969, Long Island University; Brooklyn, New York
- Robert William Kohn, B.A. 1970, Yale University; Elkins Pk., Pennsylvania
- John Newton Krieger, A.B. 1970, Princeton University; Ellenville, New York
- Gilbert Joseph Kuhn, B.A. 1967, University of San Francisco; San Francisco, California
- Carl Martin Leichter, B.A. 1970, Kenyon College; Woodmere, New York
- Marshall Richard Levine, B.A. 1970, Emory University; Miami Beach, Florida
- Sidney Leonard Levinson, A.B. 1970, Cornell University; Middletown, Connecticut
- Stuart Bryson Ley, B.A. 1970, Dartmouth College; Rye, New York
- Laurence Howard Lief, B.A. 1970, Princeton University; Olivette, Missouri
- Ka-Shui Lo, B.S. 1970, McGill University; Hong Kong, China
- Richard Nathan Lopatin, B.A. 1970, Wesleyan University; Fairfield, Connecticut
- John Walton Lugar, B.A. 1970, Dartmouth College; Memphis, Tennessee
- Scott Lyman Maass, B.S. 1970, University of California (Davis); Sacramento, California
- Robert William Mackie, B.A. 1970, Hobart College; Cooperstown, New York
- Leonard Louis Magnani, B.A. 1966, M.A. 1967, Queens College; Ph.D. 1970, Stanford University; Stanford, California
- Philip John Makowski, B.S. 1970, Georgetown University; Williston Park, New York
- Paul Maller, B.A. 1970, Queens College; Jamaica, New York
- David Alan Mayer, A.B. 1970, Lafayette College; New York, New York
- Richard Lucas McCann, B.A. 1970, Middlebury College; Yarmouth, Maine
- Thomas Patrick McGovern, B.E.E. 1968, Manhattan College; New York, New York
- Jay Blaine Miller, A.B. 1970, Cornell University; York, Pennsylvania
- Paul David Mitnick, A.B. 1970, Cornell University; Plainview, New York
- Richard Michael Moccia, B.A. 1970, Columbia University; Bronx, New York
- Mark Harlow Montgomery, B.A. 1970, Denison University; Springfield, Illinois
- John Edward Nees, B.S. 1970, Cornell University; Lafayette, Indiana
- Judith Ann Nowak, A.B. 1970, Cornell University; Romulus, New York
- Sharon Elefant Oberfield, A.B. 1970 Cornell University; New York, New York
- Bella Pace, A.B. 1970, Cornell University; New York, New York
- Lynda Michele Parker, B.A. 1968, C. W. Post College, M.S. 1970, New York University; Philadelphia, Pennsylvania
- Winston St. Clair Price, B.A. 1970, Brooklyn College; Brooklyn, New York
- Peter Francis Purcell, B.A. 1970, College of the Holy Cross; Schenectady, New York
- Robert James Quinet, B.A. 1970, Rutgers College; Edison, New Jersey
- John Scott Raymond, B.S. 1970, Utah State University; Logan, Utah
- William Vincent Rees, B.A. 1970, University of Utah; Salt Lake City, Utah
- Robert Allan Reichert, B.A., 1970, Amherst College; Wilmette, Illinois
- Gene David Resnick, B.S. 1970, Cornell University; Oceanside, New York
- Charles Milton Rhodes, B.A. 1970, Hampton Institute; Elizabethtown, North Carolina
- Ronald Nathan Riner, B.A. 1970, Princeton University; Peekskill, New York
- Allan Howard Ropper, A.B. 1970, Cornell University; New York, New York
- Alfred Sakradse, B.A. 1970, Queens College; College Point, New York
- James Tahlman Saunders, B.A. 1970, Hampton Institute; Antique, West Indies
- Henry Mark Scagliola, B.A. 1970, Fordham University; New York, New York
- Thomas John Schreiber, B.S. 1970, Muhlenberg College; Ventnor, New Jersey
- Kenneth James Smith, B.A. 1970, Fordham University; White Plains, New York
- Peter Howard Stone, B.A. 1970, Princeton University; Maplewood, New Jersey
- Donald Folusho Temple, B.A. 1970, Hampton Institute; Sierra Leone, West Africa
- Ronald Seymour Weaver, B.S. 1970, Hobart College; St. Albans, New York
- Michael Alan Weitz, B.S. 1970, Muhlenberg College; Woodbury, New York
- Robert Lloyd Weston, B.A. 1970, Rutgers University; Sussex, New Jersey
- Charles Warren Whitney, B.A. 1970, Alfred University; Chemung, New York
- Barry Martin Wilkes, B.A. 1970, New York University; Brooklyn, New York
- Lytton Ade-Kunle Williams, B.A. 1970, Hampton Institute; Sierra Leone, West Africa
- Calvin Y. H. Wong, A.B. 1970, Cornell University; Honolulu, Hawaii
- Richard John Yarger, B.A. 1970, Northwestern University; Dayton, Ohio
- Robert Claringbold Young, B.A. 1969, Williams College; Binghamton, New York
- Michael James Zema, B.S. 1970, Fordham University; East Paterson, New Jersey

Second Year

- Judith Leslie Adler, B.S. 1971, Cornell University; New York, New York
- Lorraine Christian Allen, B.S. 1971, Long Island University; New York, New York
- Thomas Michael Anger, B.A. 1966, Lawrence University; M.S. 1968, University of Wisconsin; Oshkosh, Wisconsin
- Francis Peter Arena, B.S. 1970, Fordham University; Forest Hills, New York

76 Students

- Paul Mark Baker, B.S. 1971, Davidson College; Miami, Florida
- Patrick Laselve Ballen, B.A. 1971, Queens College; Laurelton, New York
- Warrick Lee Barrett, A.B. 1971, Saint Louis University; Springfield, Ohio
- Thomas Russell Beck, B.S. 1971, Yale University; Belmont, Massachusetts
- Richard Albert Berg, B.A. 1971, Williams College; Carlisle, Pennsylvania
- Roger Glen Berlin, B.A. 1971, Queens College; Bayside, New York
- Richard Bruce Birrer, B.A. 1971, Lehigh University; Morristown, New Jersey
- Deborah Blum, B.A. 1971, Smith College; Maplewood, New Jersey
- Helen Elizabeth Blumen, B.A. 1971, Radcliffe College; Ithaca, New York
- David Steven Blumenthal, A.B. 1971, Cornell University; Westbury, New York
- Richard Scott Boas, A.B. 1971, Cornell University; Great Neck, New York
- Jeffrey Norman Bradshaw, B.S. 1971, Brooklyn College; Brooklyn, New York
- Alan Norman Braverman, A.B. 1971, Hamilton College; Oradell, New Jersey
- Stuart Paul Brogadir, B.A. 1971, Yale University; Ansonia, Connecticut
- Robert Edmund Burke, B.A. 1971, Dartmouth College; Trumbull, Connecticut
- Edmund Y.M. Chein, A.B. 1971, University of Southern California; Los Angeles, California
- Michael Oliver Christian, B.A. 1971, Hofstra University; Christiansted, Virgin Islands
- Paul Allan Church, B.S. 1971, Pennsylvania State University; Chappaqua, New York
- Kenneth Howard Cohen, B.S. 1971, City College of New York; Yonkers, New York
- Richard Peter Cohen, A.B. 1971, Clark University; Roslyn Heights, New York
- Richard Lee Curtis, B.A. 1971, Boston University; West Roxbury, Massachusetts
- Thomas John Delaney, A.B. 1971, Cornell University; Oneonta, New York
- James Anthony Diggs, B.A. 1971, Hampton Institute; Washington, D.C.
- Roger Gordon Faix, A.B. 1971, Dartmouth College; Woodbury, New Jersey
- Virginia Mary Fallon, B.A. 1971, Wellesley College; Needham, Massachusetts
- Joseph Peter Ferrara, B.S. 1971, Fairfield University; Wantagh, New York
- Elvira Ann Foglia, B.S. 1971, Fordham University; Brooklyn, New York
- Stuart Warren Fox, A.B. 1971, Cornell University; Cliffside Park, New Jersey
- Roger William Geiss, B.S. 1969, Georgetown University; Pearl River, New York
- Matthew David Gold, B.S. 1971, Yale University; Brooklyn, New York
- Paul Bernard Goldberg, A.B. 1971, Cornell University; Hollis, New York
- Milagros Gonzalez, B.S. 1971, City College of New York; New York, New York
- Steven Marc Grunberg, A.B. 1971, Cornell University; North Caldwell, New Jersey
- Daniel Francis Hanley, B.A. 1971, Williams College; Brunswick, Maine
- Cosmo Gordon Jacobs, B.A. 1970, Hampton Institute; Antigua, West Indies
- Norman Millard James, A.B. 1971, Rutgers University; Trenton, New Jersey
- David Rees Jones, B.S. 1971, Ohio State University; Ithaca, New York
- George Paul Kacoyanis, B.A. 1971, Columbia University; Somerville, Massachusetts
- Richard Steven Kampf, B.S. 1971, Washington & Lee University; Scarsdale, New York
- Thomas Martin Kelly, B.A. 1971, Fordham University; Buffalo, New York
- Stephen Jeffrey Kornfeld, B.A. 1971, Union College; Roslyn Heights, New York
- Dennis Bruce Kottler, B.A. 1971, Yale University; Elizabeth, New Jersey
- Suzanne Paula Lagarde, B.A. 1971, Fordham University; Westport, Massachusetts
- Cleland Campbell Landolt, A.B. 1971, Harvard University; Rye, New York
- Robert Alan Linden, A.B. 1971, Cornell University; Rye, New York
- John Christopher Luke, B.S. 1971, Wagner College; Staten Island, New York
- Christopher John Lynch, A.B. 1971, Holy Cross College; Bethel, Connecticut
- James Cardie Macmillan, A.B. 1971, Cornell University; North Babylon, New York
- Robert Philip Mantica, B.A. 1970, Amherst College; Milton, Massachusetts
- Maughn Matsuoka, S.B. 1971, Massachusetts Institute of Technology; Honolulu, Hawaii
- Richard Ronald McCormack, Jr., A.B. 1969, Cornell University; Nutley, New Jersey
- Michael Kent McLeod, B.A. 1971, Brooklyn College; Brooklyn, New York
- Brenda Harris Miller, B.A. 1971, City College of New York; New York, New York
- Carlyle Harvey Miller, B.A. 1971, Columbia University; Bronx, New York
- Paul Frederick Miskovitz, B.S. 1971, SUNY at Stony Brook; Lawrence, New York
- Alan Arthur Morgenstein, B.S. 1971, SUNY at Stony Brook; Brooklyn, New York
- James Harvey Newman, A.B. 1971, Cornell University; Scranton, Pennsylvania
- Robert Stephen O'Connell, B.A. 1970, Williams College; Fairfield, Connecticut
- Mary Margaret O'Sullivan, B.A. 1971, Fordham University; Bronx, New York
- Jean William Pape, B.S. 1971, Columbia University; Elmhurst, New York
- Lynda Michele Parker, B.A. 1968, C. W. Post College; M.S. 1970, New York University; Philadelphia, Pennsylvania
- Paul Mario Pellucci, B.A. 1971, The Johns Hopkins University; Glen Rock, New Jersey
- Jane Veronica Petroff, A.B. 1971, Cornell University; Monmouth, New Jersey
- William John Powers, B.A. 1971, Dartmouth College; Westport, Connecticut
- Richard Merritt Reich, B.A. 1971, Yale University; New Rochelle, New York
- Richard George Robinson, A.B. 1971, Oberlin College; Lynbrook, New York
- Joel Martin Rosen, B.S. 1971, Brooklyn College; Brooklyn, New York
- Russell Lloyd Ranson Ryan, B.A. 1971, Amherst College; E. Grand Rapids, Michigan
- Howard Irwin Schenker, A.B. 1971, Cornell University; Freeport, New York
- Walter Frederick Schlech III, B.A. 1971, Williams College; Williamstown, Massachusetts
- Daniel George Schwartzberg, B.A. 1967, Columbia University; M.A. 1969, Yeshiva University; Woodmere, New York
- Steven Fred Seidman, B.S. 1971, University of Pennsylvania; Philadelphia, Pennsylvania
- David Gary Silverman, B.A. 1971, Hofstra University; Long Beach, New York

Ruth Ronnie Solomon, B.A. 1971, Vassar College; Rego Park, New York
 Mark Alan Spiegel, B.A. 1971, Yale University; Washington, D.C.
 John Wilbur Stakes III, B.A. 1971, Williams College; E. Patchogue, New York
 Arnold Bruce Stermann, B.A. 1971, New York University; Yonkers, New York
 Mark Benjamin Stoopler, B.S. 1971, Tulane University; Great Neck, New York
 David Duval Thompson Jr., A.B. 1971, Cornell University; Tenafly, New Jersey
 Karen Toskos, B.A. 1971, Adelphi University; Great Neck, New York
 Richard Walter Tureck, B.S. 1971, Manhattan College; Yonkers, New York
 Norman Bennet Turoff, B.A., 1971, Yeshiva University; Far Rockaway, New York
 Robert David Turoff, B.A. 1971, Queens College; Westbury, New York
 Douglas Malcolm Vogeler, B.A. 1971, Kenyon College; Cincinnati, Ohio
 Arthur Warren Wardell, A.B. 1971, Cornell University; Babylon, New York
 Sharon LaVerne Wardlaw, B.S. 1970, Cornell University; Scarsdale, New York
 Hubert Weinberg, B.A. 1971, Yeshiva University; Spring Valley, New York
 Judith Whitcomb, B.A., 1967, Mount Holyoke College; M.P.H. 1971, Yale University; W. Hartford, Connecticut
 Michele Linda Winter, B.A. 1971, Barnard College; Brooklyn, New York
 Arnold David Yagoda, B.A. 1971, Yeshiva University; Flushing, New York
 Wilfred Wee Bin Yee, B.A. 1971, University of Hawaii; Honolulu, Hawaii

First Year

Brian Jeffrey Acker, B.S. 1972, SUNY at Stony Brook; Queens, New York
 Burt Alan Adelman, B.S. 1972, Trinity College; New York, New York
 Douglas Lorne Arnold, B.S. 1972, McGill University; Montreal, Quebec
 Joanne Elizabeth Backofen, B.S. 1972, St. John's University; Queens, New York
 Jane Elizabeth Bailowitz, A.B. 1972 Cornell University; Queens, New York
 Richard Michael Bargar, B.A. Harvard University; Newton, Massachusetts
 Steven N. Bass, B.S. 1972, City College of New York; Bronx, New York
 Donald Vincent Belsito, B.S. 1972, Georgetown University; Worcester, Massachusetts
 Pasquale William Benedetto, B.S. 1972, Georgetown University; Berwyn, Illinois
 Barbara Anne Bossart, B.A. 1972, Rutgers University; Saddle River, New Jersey
 William Clement Bowens, B.S. 1972, City College of New York; New York, New York
 Harold Gilbert Brandford, B.S. 1972, Pace College; Brooklyn, New York
 Bruce Braverman, B.S., 1972, Brooklyn College; Brooklyn, New York
 Stephen Edward Carlson, A.B. 1972, Bucknell University; Glen Cove, New York
 Robert Anthony Chapman, B.S. 1972, Haverford College; Roosevelt, New York
 Jackie (Jyk How) Chuong, B.A. 1972, Columbia University; Jackson Heights, New York
 Jonathan Allen Cohn, A.B. 1972, Harvard University; Brooklyn, New York

Arlene Deliz Colon, B.S. 1970, St. John's University; Bronx, New York
 Ruben Cuadrado, B.S. 1972, New York Institute of Technology; Brooklyn, New York
 Jerome Francis Cuyler, B.A. 1966, Marist College; St. Albans, New York
 Robert William D'Acquisto, A.B. 1972, Princeton University; Calverton, New York
 Gary Joseph DeFilipp, B.A. 1972, Wayne State University; Detroit, Michigan
 Michael William Draper, B.S. 1968, Brigham Young University; New York, New York
 Thomas Alfred Einhorn, A.B. 1972, Rutgers University; Short Hills, New Jersey
 Ralph Landis Engle, III, B.S. 1972, Duke University; Pelham Manor, New York
 Hector Estepan, B.E. 1966, City College of New York; Bronx, New York
 Greg Thomas Everson, B.A. 1972, University of North Dakota; Bismarck, North Dakota
 Kenneth Saul Felder, B.S. 1972, Brooklyn College; Brooklyn, New York
 Carl Seth Friedman, B.A. 1972, Williams College; Mt. Vernon, New York
 Robert Friedman, A.B. 1972, Princeton University; Patchogue, New York
 William Rose Furman, B.S. 1972, Michigan State University; Westbury, New York
 Kenneth Gantz, B.A. 1972, Queens College; New York, New York
 John Anthony Garofalo, B.A. 1972, Hofstra University; East Meadow, New York
 Merrill Joy Gersten, B.A. 1972, Barnard College; Jamaica, New York
 Bernard Gitler, B.S. 1972, Massachusetts Institute of Technology; Yonkers, New York
 Harvey Lee Goldberg, B.S.E.E. 1972, Massachusetts Institute of Technology; Whitestone, New York
 Deborah Ann Goldfarb, A.B. 1972, Radcliffe College; New York, New York
 Geoffrey Jon Gottlieb, A.B. 1972, Cornell University; Worcester, Massachusetts
 Richard Evan Greenberg, B.A. 1972, SUNY at Buffalo; Wantagh, New York
 Alan Douglas Guerci, A.B. 1972, Harvard University; Rumson, New Jersey
 Edward Verity Gundy, B.A. 1972, Dartmouth College; New York, New York
 James Willis Hare, A.B. 1968, Colgate University; M.S. 1972, Columbia University School of Engineering; Middletown, New York
 Marilyn Tucker Haupt, B.S. 1972, McGill University; Fulton, New York
 Murk-Hein Heinemann, B.A. 1972, Kenyon College; New York, New York
 Frederic William Held, B.A. 1972, Northwestern University; Decatur, Illinois
 James Hinde, A.B. 1972, Colgate University; New York, New York
 Edward Lawrence Hoder, Jr., B.S. 1972, Yale University; Poughkeepsie, New York
 Edward Watson Hook, III, B.S. 1972, Hobart College; Charlottesville, Virginia
 Robert Powell Huben, B.A. 1972, Rutgers University; Piscataway, New Jersey
 Kenneth Paul Kahaner, B.S. 1972, Queens College; Whitestone, New York
 Ellen Katz, B.A. 1972, Queens College; North Woodmere, New York
 Stuart George Katz, A.B. 1972, Amherst College; Bloomfield, Connecticut
 Lydia Kernitsky, A.B. 1972, Cornell University; Central Islip, New York

78 Students

- Dennis Mark Kesden, B.A. 1972, Wesleyan University; North Massapequa, New York
- John Calhoun Killian, A.B. 1972, Cornell University; Amherst, Massachusetts
- Ronald Jay Koenig, B.S. 1972, Yale University; Merrick, New York
- Gerald Brian Kolski, A.B. 1964, Dartmouth; Ph.D. 1969, Purdue University; Ithaca, New York
- Christine LaRue, B.A. 1972, Boston University; Darien, Connecticut
- Martin Lawrence Levinson, B.A. 1972, New York University; Union, New Jersey
- Kenneth Ian Light, B.S. 1972, Cornell University; Syosset, New York
- Ralph Linsker, B.A. 1967, Ph.D. 1972, Columbia University; South Orange, New Jersey
- James Edmund Lovelock, B.A. 1970, LeMoyné College; Flushing, New York
- Storme Lynn, B.A. 1972, New York University; West Hempstead, New York
- Steven Kay Magid, B.A. 1972, Brandeis University; New York, New York
- Robert Marcus, B.S. 1972, Northwestern University; Westbury, New York
- Dennis Allan Mazal, A.B. 1972, Rutgers University; West Orange, New Jersey
- John Francis Mendes, B.A. 1972, Fordham University; Merrick, New York
- Steven Richard Meshnick, B.A. 1972, Columbia University; New Hyde Park, New York
- Eric Scott Miller, B.S. 1972, Union College; Bronx, New York
- Orrin Arlington Moore, B.S. 1972, University of Maryland; Georgetown, Guyana
- Richard Stanley Nenoff, B.S. 1972, Cornell University; Niagara Falls, New York
- Jeffrey Norman Nichols, B.A. 1968, Columbia University; Ithaca, New York
- Donald Stuart Novy, A.B. 1972, Lafayette College; Hillside, New Jersey
- Allan Peter Olivieri, A.B. 1972, Cornell University; Bronx, New York
- William S. Packard, B.A. 1972, Yale University; Brooklyn, New York
- Thaddeus Richard Paprocki, B.S. 1972, St. Peter's College; Bayonne, New Jersey
- Melissa Susan Pashcow, B.A. 1972, Vassar College; New York, New York
- David Matthew Pilgrim, B.A. 1972, Amherst College; Brooklyn, New York
- Stephen Jeffrey Pilipshen, B.A. 1972, New York University; New Hyde Park, New York
- Anthony Provenzano, B.S. E.E. 1972, Cornell University; New Rochelle, New York
- Samuel Rapoport, B.S. 1972, Cornell University; Brooklyn, New York
- Austin Kevin Raymond, B.S. 1972, Fordham University; Oakdale, New York
- Carl Milton Richie, B.S. 1972, City College of New York; New York, New York
- Barry Joel Richter, B.S. 1972, Cornell University; Albany, New York
- Benjamin Rodriguez, 1972, California State University at San Bernardino; San Bernardino, California
- Lynda Ellen Rosenfeld, B.S. 1972, Tufts University; West Hempstead, New York
- Margaret Leigh Schwartz, B.A. 1971, Princeton University; New Shrewsbury, New Jersey
- Andrew Paul Schuyler, B.A. 1972, Williams College; Hewlett Harbor, New York
- Samuel Michael Silver, A.B. 1972, Brandeis University; Essex, New Jersey
- Gary Robert Silverman, B.S. 1972, Stanford University; Miami, Florida
- Richard Alan Skolnik, B.A. 1972, C. W. Post College; Manhasset, New York
- Steve Seev Sommer, B.A. 1972, University of Pennsylvania; Havre de Grace, Maryland
- James Raymond Swanbeck, Jr., B.A. 1972, Cornell University; Aurora, New York
- Frank Charles Taliercio, B.S. 1972, Georgetown University; Palisades Park, New Jersey
- Robert Walter Thies, B.A. 1972, Hofstra University; Glendale, New York
- David Valez, B.S. 1971, Fordham University; New York, New York
- Judith Ann Waligunda, A.B. 1972, Cornell University; Scranton, Pennsylvania
- Gary Robert Weine, B.A. 1972, Queens College; Flushing, New York
- Gail Greenwood Weinmann, B.A. 1972, Barnard College; Washington, D.C.
- Irene Amy Weiss, B.S. 1972, Cornell University; New York, New York
- Nina L. Zasorin, A.B. 1972, Barnard College; New York, New York
- Steven Zimmerman, A.B., 1972, Cornell University; Hewlett, New York

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Cornell University Medical College

- 1 Anatomy Building
- 2 William Hale Harkness Medical Research Building
- 3 Samuel J. Wood Library and Research Building
- 4 Biochemistry—Pharmacology Building
- 5 Olin Hall
- 6 Livingston Farrand Apartments

The New York Hospital

- 7 The New York Hospital
- 8 Payne Whitney Psychiatry Clinic
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- 10 Payson House

Memorial Sloan-Kettering Cancer Center

- 11 Memorial Hospital
- 12 Sloan House
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