

# Surgery

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The Department of Surgery offers an introduction to surgical diseases as part of the required medical science course, Junior Surgery Clerkship. After successful completion of this phase of education, electives are offered in the surgical specialties and other surgical disciplines. These courses offer more specific and in-depth exposure than the basic core course.

## **SURG 900. Surgery Clerkship. 0-8 Credits.**

During the clinical clerkship the student develops understanding of the diagnosis and treatment of surgical conditions including life-threatening conditions. Students will have the opportunity to gain an understanding of Surgery through patient interviews, physical examination, surgical procedures, review of imaging and laboratory studies, and a variety of other educational experiences. This clerkship will expose students to management of patients in both inpatient and outpatient settings as well as in the operating room. Prerequisite: Medical Basic Sciences.

## **SURG 901. Subinternship - Plastic Surgery. 4 Credits.**

This course is designed to provide advanced experience to medical students the diagnosis and management of plastic surgery patients. Additionally, concepts taught during surgery 900 are reemphasized in greater detail. Ward rounds, clinical conference seminars and care studies supplement the clinical experience. An optional laboratory experience providing in-depth introduction to microvascular surgery can be arranged. Emphasis is placed on an understanding of the principles and surgical anatomy of areas of plastic surgery including congenital, trauma, tumor and cosmetic. Students are expected to participate with the surgical team in the diagnosis and management of plastic surgery patients. It is expected that the student will participate, when possible, at a resident level of responsibility. The student participates directly in patient care on the wards, in the outpatient clinics and in the operation room. Prerequisite: SURG 900, MED 900.

## **SURG 902. Subinternship in Surgery. 4 Credits.**

The student will be expected to participate with the surgical team in the diagnosis, operation, and management of surgical patients. It is expected that the student will participate, as possible, at a resident level of responsibility. Ward rounds, clinical conferences, seminars, and case studies supplement clinical experience. The student participates directly in patient care on the ward, in the outpatient department, and in the operating room. Emphasis is placed on an understanding of alterations in physiology secondary to pathology, management of fluids and electrolytes, basic elements of pre- and post-operative care, and diseases amenable to surgical treatment. In addition, concepts taught during Surgery 900 are reemphasized and considered in more detail. We can accommodate 6 students. Prerequisite: SURG 900 and MED 900.

## **SURG 909. Surgery Subinternship-Neurosurgery. 4 Credits.**

This course is designed to provide advanced experience to the student in the management of neurosurgical problems. The student is assigned to the neurosurgical service at the University hospital for four weeks. Students will participate with the surgical team in daily rounds, diagnosis, out-patient experience, operative experience and post-operative management of neurosurgical patients. Emphasis is placed on an understanding of neurologic disease with special emphasis in physical exam and diagnosis, management of basic neurosurgical emergencies and management of common neurosurgical problems. Accommodates three students in Modules I-XII. Prerequisite: SURG 900 and MED 900.

## **SURG 910. Surgery Subinternship-Urology. 4 Credits.**

This course is designed to provide advanced experience to the student in the diagnosis and management of genitourinary disease. The student is assigned to the Urology Service at KUMC or the VA Hospital for 4 weeks. Students are expected to participate with urologic patients. It is expected that the student will participate, as possible, at a resident level of responsibility. Ward rounds, clinical conferences, seminars, and case studies supplement clinical experience. The student participates directly in patient care on the ward, in the outpatient department, and in the operating room. Emphasis is placed on an understanding of alterations in physiology, secondary to pathology of the genitourinary tract, and diseases amenable to surgical or medical treatment. The student is expected to become familiar with the diagnostic procedures and techniques used in evaluating patients with acute and chronic genitourinary problems (i.e. cystoscopy). The outpatient experience is particularly emphasized. By the end of the course, the student should be able to describe risk factors, epidemiology, etiology, diagnosis, management strategy, prognosis, including sequelae, and preventive measures for common urologic problems. We can accommodate five students at KUMC. Prerequisite: SURG 900 and MED 900.

## **SURG 912. Clinical Course in General Surgery. 4 Credits.**

This is a course at the KU Medical Center, in which the student proceeds to the study of surgical diseases and treatment in a more specific and in-depth exposure than in the Basic Surgery Course (SURG 900). The student is assigned to an instructor of choice; studies an area of interest in-depth within the field of general surgery, i.e., gastrointestinal, peripheral vascular, endocrine, thoracic, etc; participates in the care of selected patients in the ward, clinic, and operating room, and assists in the experimental laboratory if desired. The student also participates in surgical and multidisciplinary conferences in which clinical problems are related to the basic sciences. Evaluation is based on clinical performance. Prerequisite: SURG 900.

## **SURG 913. Clinical Course in Plastic Surgery. 4 Credits.**

The medical student participates as an intern, functioning in the clinics, wards and operating room as an integral part of the service. Evaluation is based on clinical performance. Prerequisite: SURG 900.

## **SURG 914. Clinical Course in Orthopedic Surgery. 4 Credits.**

The principles of orthopedic evaluation and care are emphasized. Responsibility is to function as an extern in the clinics, the wards and the operating room. Evaluation is based on clinical performance. Prerequisite: SURG 900.

## **SURG 915. Subinternship-Orthopaedic Surgery. 4 Credits.**

This subinternship is designed to allow the student to participate in orthopedic clinical care. The student is assigned to the orthopedic surgical service at KUMC for four weeks. The student participates with the orthopedic surgery team in the diagnosis, surgical treatment and postoperative management of orthopedic patients. The student will participate directly in care of patients in the emergency department, operating room, intensive care unit and orthopedic ward. Emphasis is placed on the understanding of pre-op, intra-op and postop care of the orthopedic patient. There is a limit of 4 students per rotation. Prerequisite: Successful completion of basic clinical clerkships.

## **SURG 916. Surgical Oncology. 4 Credits.**

This rotation for medical students at a clinical level is designed to expose the student to procedures and techniques of modern surgical oncology. This experience includes: (1) Seeing all surgical oncology inpatient and outpatient consultations with the staff, (2) Operating room observation and participation with major cancer ablative procedures; e.g., radical lymphadenectomies, pelvic exenteration, major organ resections etc., (3) Clinical and laboratory exposure to immunotherapy and basic cancer immunology, (4) Exposure to special chemotherapeutic procedures; e.g.

arterial infusion and perfusion, (5) Attendance at the combined medical-surgical conference. The specific duties for each individual student is defined at the beginning of each rotation and will be changed to fit the specific needs and desires of each student. Evaluation is based on clinical performance. Prerequisite: SURG 900.

**SURG 917. Clinical Course in Urologic Surgery. 4 Credits.**

This course is limited to medical students who have completed the Basic Surgery Clerkship (SURG 900). Experience consists of care and evaluation of outpatients and inpatients requiring urologic diagnosis. Tutorial instruction and conferences are the prevalent means of instruction. Evaluation is based on clinical performance. Prerequisite: SURG 900.

**SURG 918. Clinical Course in Neurologic Surgery. 4 Credits.**

The principles of patient care and the physiological basis of neurological diagnosis are stressed. Experience consists of care and evaluation of outpatients and inpatients requiring neurosurgical diagnosis and treatment. Evaluation is based on clinical performance. Prerequisite: SURG 900.

**SURG 919. Transgender Medicine and Surgery. 4 Credits.**

The transgender medicine and surgery elective is a four-week rotation for fourth-year medical students to get increased exposure to multidisciplinary transgender health. The rotation includes both inpatient surgical and outpatient experiences. Medical education in transgender health can empower physicians to identify and change the systemic barriers to care that cause transgender health inequities as well as improve knowledge about transgender-specific care. Prerequisite: GYNO 900.

**SURG 921. Special Surgical Elective. 4 Credits.**

Special courses or assignments not included in other elective courses which may be prearranged with and must be approved by the Course Director, SURG 900, the Education Council, and the Department of Surgery. Evaluation is based on performance as determined by the sponsoring faculty member. Prerequisite: SURG 900 and by special arrangement with the section chief.

**SURG 925. Ambulatory Specialties Selective in Urological Surgery. 2 Credits.**

To optimize the health of men, women, and children, physicians must be able to diagnose, manage, and provide preventive advice concerning a wide range of conditions and symptoms pertaining to the genitourinary tract. The process depends on adequate patient assessment and appreciation of the epidemiology and pathophysiology of individual conditions, and the appropriate use of medical, surgical, and other interventions. Students will be on service in two-week blocks. During that time they will participate in the following activities: Observe procedures inpatient and outpatient, outpatient experience at KUMC tutorial sessions, conferences, and inpatient rounds.

**SURG 927. Critical Care: Burn Center. 4 Credits.**

The objective of this clerkship is to provide students with experience in the management of critically ill patients. Students will participate in the diagnosis and treatment of patients in the KUMC Burn Center. Clinical work will be supplemented by conferences and other educational activities. This clerkship fulfills the Critical Care Selective requirement.

**SURG 929. Critical Care: Surgical Intensive Care Unit. 4 Credits.**

The objective of this course is to provide students with experience in the management of critically ill patients. Students will participate in the diagnosis and treatment of patients in the KUMC Surgical Intensive Care Unit. Clinical work will be supplemented by conferences and other educational activities. This course fulfills the Critical Care Selective requirement.

**SURG 932. Women as Surgical Leaders. 4 Credits.**

The goal of this rotation is for students planning surgical careers to work 1:1 with female mentors, learning not only the clinical side of the surgical specialty but also the leadership approach, patient/clinical management, and career development considerations for female surgical staff. Prerequisite: Gen Surgery + Internal Medicine.

**SURG 933. Personal Wellness and Intern Preparedness. 2 Credits.**

This elective is tailored for 4th-year medical students, focusing on Personal Wellness and Intern Preparedness across all specialties. The curriculum features a mix of didactic sessions, panel discussions, and interactive activities centered on Personal Wellness. Additionally, students will participate in an immersive 3-hour call simulation incorporating fundamental call tasks supported by standardized patients. Prerequisite: 4th year standing.