
DEPARTMENT OF UROLOGY

The surgical subspecialty of urology deals with the evaluation and treatment, in adults and children, of disorders and diseases of the male and female urinary tracts and the male reproductive organs. In addition to patient care, Department faculty take an active role in medical education at all levels. We develop programs for and participate in medical student education; conferences for pediatric, family practice, and internal medicine residents; and continuing medical education efforts. Faculty are also actively involved in basic and clinical research, including collaborative projects and extramurally funded grants and contracts. The Department offers a required second-year medical student rotation in the Double Helix Curriculum, a third- and fourth-year required rotation in the traditional curriculum, and a fourth-year student elective. We have a fully accredited four-year residency training program in urology, following completion of two years of postgraduate training in general surgery.

A wide range of conditions are treated in urology, including diseases and disorders of the adrenal gland, kidney, ureter, bladder, and urethra in males and females, and of the male genital system. Faculty expertise covers all seven urologic subspecialty areas: (1) urologic oncology, (2) pediatric urology, (3) stone diseases including use of extracorporeal shock wave lithotripsy (ESWL), (4) renal transplantation (in concert with the Transplant Service of General Surgery), (5) female urology, voiding dysfunction, and urinary incontinence, (6) andrology, including diagnosis and treatment of erectile dysfunction and male infertility, and (7) neurourology.

A one-week required clerkship in Urology is part of the third- and fourth-year traditional curriculum for medical students, which ends after the 2001–2002 academic year. In the new Double Helix Curriculum, this required urology exposure is in the second year, with 12 hours of contact per student. Emphasis is placed on learning basic concepts of urologic disease, in order to prepare students to evaluate and handle urologic problems at a primary care level and to recognize when further consultation is needed. Coordination with other clinical disciplines and pathology are a hallmark of this course. Students participate in patient care in the ambulatory urology office and have a well-defined curriculum with explicit objectives and evaluations.

Senior University of Rochester medical students as well as those from other institutions may also complete a two-to-four week elective in urology. The instruction received is more intensive and comprehensive than that of the one-week medical student rotation, and has many of the features of a subinternship. Clinical experience takes place in inpatient, ambulatory office, and outpatient surgery settings. In addition to an extremely busy traditional urology practice, there are very active prostate brachytherapy, laser, microwave, and ESWL programs, and increasingly greater laparoscopic surgical activity,

which significantly complement the inpatient and outpatient clinical services of the Department.

The Urology Residency Program is a four-year program following completion of two years of postgraduate training in general surgery. The residency program encompasses all phases of adult and pediatric urology and genitourinary surgery, leading to American Board of Urology certification eligibility. The residents become proficient under the supervision of the full-time and part-time attending staff as well as fellow members of the resident staff and participate in patient care, teaching, and research. Extensive training in all urologic subspecialties occurs in an ongoing manner throughout all four years of the program. The county-wide program provides educational opportunities and training at Strong Memorial Hospital and three affiliated institutions: Rochester General, Park Ridge, and Monroe Community Hospitals. Additional information regarding the program is provided in the Department of Urology Residency Training Program brochure and at www.urmc.rochester.edu/Urology/.

Laboratory research efforts in the Department of Urology include investigations involving renal calculi, benign prostatic hypertrophy (BPH), inflammatory bladder diseases, and cancers of the bladder, kidney, and prostate. Full-time Department faculty members currently hold three independent NIH research grants or contracts and several Department of Defense awards, and collaborate closely with researchers in endocrinology, gynecology, immunology, nephrology, oncology, orthopaedics, pathology, and psychiatry. In addition to basic science research, several clinical research studies are ongoing, involving bladder and prostate cancers, BPH, urinary incontinence, interstitial cystitis, and vesicoureteral reflux. The Department of Urology offers selected postdoctoral research fellowships in the research laboratory for one or two years.

Faculty of the Department of Urology

Edward M. Messing . . . *Winfield W. Scott Professor of Urology and Chair*, and Professor of Oncology and Pathology and Deputy Director of Cancer Center. A.B. University of Chicago, 1968; M.D. New York University, 1972. Intern and Resident in General Surgery, New York University-Bellevue Medical Center, 1972–74; Urology Residency, Stanford University, 1974–78; Clinical Assistant Professor of Urology, Tulane University School of Medicine, 1978–80; Surgeon and Chief, Division of Urology, United States Public Health Service Hospital, New Orleans, Louisiana, 1978–80; Adjunct Assistant Professor, Surgery/Urology, NIH-Supported Postdoctoral Fellowship, Tumor Immunology and Urologic Oncology, University of California (Los Angeles) School of Medicine, 1980–82; Assistant Professor, Surgery/Human Oncology, University of Wisconsin School of Medicine, 1982–87; Associate Professor, 1987–92; Professor, 1992–95; Chief, Urologic Oncology Division of Urology, Department of Surgery, 1989–95; Winfield W. Scott Professor and Chair, Urology, University of Rochester School of Medicine and Dentistry, 1995–; Interim Director, Cancer Center, 1996–98; Deputy Director, Cancer Center, 1998–.

Professors

Chawnsang Chang, and *Pathology and Laboratory Medicine*. B.S. National Taiwan University, 1978; Ph.D. Chicago, 1985.

Abraham T. K. Cockett, B.S. Brigham Young, 1950; M.D. Utah, 1954.

Robert S. Davis. B.S. University of Chicago, 1963; M.D. SUNY (Upstate), 1969.

Irwin N. Frank, Emeritus. A.B. Rochester, 1950; M.D. 1954.

Ronald Rabinowitz, and Pediatrics. B.S. Pittsburgh, 1964; M.D. 1968.

Clinical Professors

Louis R. Cos. B.S. National University of Mexico, 1959; M.D. 1965.

Arthur J. Segal, and *Radiology*. B.A. Syracuse and Hofstra, 1964; M.D. SUNY (Upstate), 1968.

Associate Professors

Grace Centola, and *Obstetrics and Gynecology*. B.S. Utica, 1973; Ph.D. Georgetown, 1978.

Erdal Erturk. M.D. University of Diyarbakir (Turkey), 1979.

William C. Hulbert, Jr., and Pediatrics. B.S. St. Bonaventure, 1975; M.D. Rochester, 1979.

Robert D. Mayer. B.A. Cornell, 1974; M.D. Oregon, 1978.

Adjunct Associate Professor

Per-Anders Abrahamsson. B.Sc. University of Lund (Sweden), 1970; M.D. 1977; Ph.D. 1988.

Assistant Professors

Jean V. Joseph. B.A. Boston University, 1988; M.D. Rochester, 1992.

Robert A. Mevorach. B.A. SUNY (Binghamton), 1981; M.D. Rochester, 1985.

Edward M. Schwarz, and *Orthopedics*. B.S. Worcester Polytechnic Institute, 1988; M.A. 1990; Ph.D. Albert Einstein, 1993.

Shuyuan Yeh. B.S. National Taiwan University, 1988; M.S. 1991; Ph.D. University of Wisconsin, 1996.

Clinical Assistant Professors

Philip M. Ashman. B.A. Hobart, 1960; M.D. Maryland, 1964.

Louis R. Baumann. B.A. Springfield, 1983; M.D. University of Illinois (Chicago), 1987.

John M. Cannon. B.S. Allegheny, 1983; M.D. Rochester, 1987.

John K. Coyle. B.S. Georgetown, 1955; M.D. New York Medical, 1960.

David Dever. B.A. Marquette, 1972; M.D. Albany Medical, 1980.

Paul L. DiMarco. B.S. LeMoyne, 1976; M.D. Georgetown, 1981.

Joseph J. DiMartini. M.D. University of Bologna (Italy), 1972.

Laurence A. Donahue. B.A. Colgate, 1977; M.D. SUNY (Buffalo), 1983.

Michael J. Feinstein. B.S. Dickinson, 1960; M.D. New York Medical, 1964.

David P. Gentile. B.A. University of Pennsylvania, 1982; M.D. 1986.

Abraham A. Glazer. B.A. Columbia, 1988; M.D. Cornell, 1992.

William P. Guthinger. B.S. Union, 1969; M.D. Albany Medical, 1973.

Fuad J. Khuri. B.S. American University of Beirut (Lebanon), 1968; M.D. 1972.

Garth O. Laidlaw. B.S. Pace, 1969; M.D. Mount Sinai, 1973.

Stewart Lipson. B.S. George Washington, 1972; M.D. University of Illinois (Chicago), 1976.

G. V. Nagabhushana. M.B.B.S. Bangalore University Medical School (India), 1967.

David A. Parker. B.S. Harvard, 1963; M.D. Cornell, 1967.

Husayn A. Rashid. B.S. American University of Beirut (Lebanon), 1960; M.D. 1964.

Ronald A. Ruotolo. B.S. Fordham, 1964; M.D. New Jersey College of Medicine, 1968.

Kamrooz Sanii. M.D. Shiraz University (Iran), 1973.

Paul Shapiro. B.A. George Washington, 1973; M.D. Chicago, 1978.

Frederick Tonetti. B.S. Cornell, 1978; M.D. SUNY (Buffalo), 1984.

John R. Valvo. B.S. Marietta, 1972; M.S. SUNY (Buffalo), 1974; M.D. 1978.

Research Assistant Professors

Jay Reeder, and Pathology and Laboratory Medicine and Oncology. B.A. SUNY (Binghamton), 1980; M.S. Rochester, 1992; Ph.D. 1997.

Ronald W. Wood, and *Obstetrics and Gynecology*. B.S. Grinnell, 1968; M.S. 1975; Ph.D. Rochester, 1975.

Guan Wu. M.D. Beijing Medical University (China), 1983; Ph.D. 1989.

Postdoctoral Fellow

Xing Wang. M.D. Beijing Medical University, 1990.