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The History of Urological Care and Training at Thomas Jefferson University

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1824-JEFFERSON MEDICAL COLLEGE AND THOMAS JEFFERSON UNIVERSITY

The Department of Urology at Thomas Jefferson University and Thomas Jefferson University Hospital is generally acknowledged as the oldest formal Department of Urology in the U.S. formally designated as the Department of Genitourinary Surgery in 1904. The Department has been under the direction of 8 chairmen and has trained over 144 residents and 25 fellows with over 200 Jefferson Medical College graduates specializing in Urology.



Thomas Jefferson University was originally founded as Jefferson Medical College in 1824. Dr. George McCallendon petitioned Jefferson College at Cannonsburg (now Washington and Jefferson College) to add a medical school to their institution. While technically part of Jefferson College in western Pennsylvania, Philadelphia College was to be located in Philadelphia under the direction of the medical faculty. By 1838, Jefferson Medical College gained its own charter and was no longer affiliated with Jefferson College. As a proprietary school, the faculty administered and managed all the finances of the school. This included the sale of 'tickets' to attend lectures.

An infirmary to treat the poor was established in 1825. This dispensary to treat indigent patients under student observation was the first instituted by any medical school in the United States. Eventually, all medical schools in the United States adopted Jefferson's example of combining lectures with practical patient experience. In 1969 Thomas Jefferson University was established that incorporated Jefferson Medical College, the College of Allied Health Sciences, the College of Graduate Studies and the Jefferson Medical College Hospital.

1851-UROLOGICAL SURGERY, BEGINNINGS OF ACADEMIC UROLOGY AT JEFFERSON

In 1851 Urology as a distinct branch of General Surgery was established in the US by **Samuel O Gross, MD** in his "Practical Treatise on the Diseases, Injuries, and Malformations of the Urinary Bladder, the Prostate Gland, and the Urethra". Dr. Gross presented the first attempt in urologic literature to report the prevalence of stones in the bladder and of calculus disorders in the U.S., Canada, and Europe.

Dr. **Samuel W Gross** carried on his father's interest by editing the 3rd edition in 1876 and writing his own treatise on "Impotence, Sterility, and Allied Disorders of the Male Sexual Organs" in 1881. Other Jefferson Surgeons who wrote or practiced in urology toward the end of the nineteenth century included: **John H Britton (1852), W.W. Keen (1862), J. Ewing Mears (1865) and W. Joseph Hearn (1867).**

1904-DEPARTMENT OF GENITO-URINARY DISEASES

In May 1904, a formal Department at Jefferson Medical College was established and **Orville Horwitz, MD** was the first full Professor and Chair. Dr. Horwitz equipped Jefferson's Genito-urinary department at his own expense. His continued department support for equipment and maintenance was not incurred by the hospital, but also came from donations of grateful patients. The Genito-urinary service began with 10 cases and by the end of 1904 became one of the largest departments in the Hospital.

Hiram Rittenhouse Loux, MD presided as the second Chairman of Genito-Urinary Diseases at Jefferson Medical College from 1912 until 1930. The medical students' admiration for him was professed by the author of the Hiram R. Loux Urological Society.

Thomas Cooke Stellwagen, DMD, MD succeeded Dr. Loux as the third Chairman of Genito-Urinary Surgery and served from 1930 until 1935. Dr. Stellwagen was a resident member and President of the Genito-Urinary Society as well as the Association of Genito-Urinary Surgeons and the American Urological Association.



David Melvin Davis, MD was the fourth Chairman of the Department from 1935 to 1951. Dr. Davis interned at Baltimore City Hospital and returned to Johns Hopkins as an assistant pathologist. His research endeavors paved the way for his directorship of the Brady Urological Society. The main research interest of Dr. Davis was in the field of genito-urinary infection including sexually transmitted diseases.

Back at the Brady Institute, Dr. Davis completed a urological residency and over a two year period coauthored with Dr. Hugh H. Young, the acclaimed urology textbook of the time entitled "Practice of Urology". He served as Associate Editor of the Journal of Urology in 1919.

Dr. Davis served as chairman of the Department of Urology at the newly formed Medical School of the University of Rochester. However, his desire to perfect his urology training placed him once again as an associate of Dr. Hugh Young. Dr. David M Davis was appointed as chairman in 1935. This was to be the beginning of 16 fruitful and dynamic years for the Urology Department and Residency Program at Jefferson.

David Melvin Davis, MD

1939-DEPARTMENT OF UROLOGY (GENITOURINARY) ESTABLISHMENT OF THOMAS JEFFERSON UNIVERSITY HOSPITAL RESIDENCY PROGRAM

Shortly after Dr. Davis's appointment at Jefferson, the Department of Genito-Urinary diseases changed its name to the Department of Urology. Under Dr. Davis's leadership advanced training in Urology was established at Jefferson started in 1939. World War II caused a delay in increasing the number of residents but a second position was created in 1946. The urology residency at Jefferson in the 1940's was one of eleven approved urology residencies in the United States. Philadelphia consolidation and closure of urology residencies would follow as the number of training programs would fall to three in Philadelphia by the 1980's. In 1948 an arrangement with John H. Gibbon, MD, Professor of Surgery provided a year training in General Surgery before beginning three years in the Urology Residency.

Dr. Davis greatly improved the standard of care in the Urology Ward and Curtis Clinic. In addition to more than 130 journal articles, after academic retirement Dr. Davis wrote a textbook "Mechanisms of Urologic Disease" (1953). He designed a cystoscopic-radiographic-fluoroscopic table constructed in Philadelphia by the Franklin X-ray Corporation. His particular interests were in hypoplasia, hydrophroses, and early diagnosis and radical operations for carcinoma of the prostate and the famous "Davis Intubated Ureterotomy". The first use of the term urolithiasis to describe the collective studies of urinary tract function can be traced to Dr. Davis' presentation of the annual A.E. Thomas Oration at the Philadelphia Urological Society on January 2, 1954.

The ruling of the Board of Trustees closed his compulsory residency at age 65 in 1951. He remained active in practice, research, and authorship of articles for another 17 years until his death in 1968. To immortalize his memory, the annual David M Davis Visiting Professorship in Urology was established in 1981 in his honor.

Table with columns: APPROVED RESIDENCIES AND FELLOWSHIPS, APPROVED, ONE OF SEVERAL, and other columns.

Theodore R. Fetter, MD

Theodore R. Fetter, MD served as the fifth Chair from 1951 to 1967. His numerous publications expanded a wide range of urological diseases and were significant literary contributions on genitourinary disease in the classical text "Anspach, Gynecology". He served as President of the Pennsylvania State Medical Society in 1952 and as President of the Mid Atlantic Section of the American Urological Association.

During Dr. Fetter's urology training developing rapidly, intra-venous pyelography, better cystoscopes, resectoscopes with Bovie machines for electric cutting and coagulation, use of antibiotics, and anesthesia with use of intravenous fluids and blood loss replacement were all major advances. The residents and medical students were trained with the latest instrumentation and presented knowledge on the changing concepts of renal urology. Dr. Fetter's urology residency program included the Drake workometer which thousands of urologists used in their office to help diagnose bladder outlet obstruction.

Paul Zimskind, MD served Dr. Fetter as the sixth chairman serving from 1967 to 1976. He completed medical training and urology residency at Jefferson. During his residency, Dr. Zimskind carried out human and animal experiments on the physiology of ureteral dynamics for which he subsequently earned his PhD. Dr. Zimskind was honored as being one of twenty-five Academic Markle Scholars throughout the US and Canada. This award was for the development of the scholar as a teacher or investigator in the field of Medicine. Shortly after receiving this national honor, he assumed the Chairmanship of the Department of Urology, as one of the youngest men to reach the status of Executive Faculty at the age of only 36.

Dr. Zimskind stimulated his residents to volunteer technicians in executing his research endeavors. He was a member of various prestigious urologic societies and was able to publish 43 scientific papers and give 17 presentations at scientific meetings worldwide, before his sudden death at age 44 of cancer of the bladder. The Society for Female Urology and Urodynamic (SUFU) presents the Zimskind Award annually to recognize an outstanding young investigator.

S. Grant Mulholland, MD was appointed as Nathan Lewis Haffitz Professor and Head of the Department in 1977 and served as the Department's seventh Chairman for the next 25 years (1977-2002). He followed closely in his father footsteps, Dr. Stanford Wallace Mulholland. His father was a prominent Philadelphia urologist who was Professor and Chairman of the Department of Urology at the Medical College of Pennsylvania.

At the initial time of Dr. S. Grant Mulholland's appointment as Chairman, the Department of Urology was almost completely composed of volunteer faculty (3 urologists), who were talented clinicians with large practices. The Department, however, was in need of academic modernization and expanded research. Over his tenure, a large, diversified department offering both primary and tertiary urologic care at the end of Dr. Mulholland's tenure as chairman, the Department of Urology had 77 employees, including 14 attending physicians, 8 residents, 2 PhDs and several clinical fellows and post-docs. Over 20 fellows had been trained in areas including oncology, endourology and neuro-urology. Basic science programs focused on infection in the urinary tract and in bladder cancer, the prostate cancer, and prostate cancer. Residents now had dedicated time as a "Research" resident. This position is an integral part of our program today.

S. Grant Mulholland, MD



In August, 2002, **Leonard G. Gomella, MD** was appointed the Bernard Godwin Professor of Prostate Cancer and the 8th Chairman of the Department. Dr. Gomella, originally from New York, graduated from Queens College, City University of New York and completed medical school, general surgery and urology training at the University of Kentucky in Lexington, Kentucky. This was followed by a two year Urological Oncology Fellowship with Drs. Marston Linehan and Steven Rosenberg at the National Cancer Institute in Bethesda, Maryland. He has been on the faculty since 1988 and in 1994, the Board of Trustees appointed him the first Bernard W. Godwin Associate Professor in Prostate Cancer, the first prostate cancer specific chair in the US.

Dr. Gomella, working with then resident Dr. Jose Moreno and others, were first to use RT-PCR to detect micrometastasis in patients with prostate cancer, in 1991. Dr. Gomella is also Associate Director for Clinical Affairs for the Kimmel Cancer Center at Jefferson and Urology Chair for RTQG, serving as lead urology investigator on multiple national trials. In 2008 he was named Clinical Director of the Jefferson Kimmel Cancer Center Network. Dr. Gomella is involved in both basic science and clinical research in the development of new diagnostic techniques and treatments for prostate, bladder and kidney cancer through Jefferson's Kimmel Cancer Center.

Dr. Gomella's reputation as an effective teacher and lecturer has him in constant demand as a speaker. He has given almost 500 presentations at local, national and international meetings and written over 300 papers, chapters and monographs in the field of Urology. He has served as a member of the Editorial Board of numerous journals in the field of urology and oncology.

Dr. Gomella's journal appointments have included: Editor in Chief of the "Canadian Journal of Urology", Member of the Editorial Board of the Investigative Section of the "Journal of Urology", co-editor in Chief of "Techniques in Urology", and on the boards of several journals including "Urologic Oncology", "Clinical Genitourinary Cancer" and "American Journal of Pathology".

Dr. Gomella has authored the text editions of 17 different books for medical students, residents, and practicing physicians, many of which have been translated into foreign languages. He is the editor of the "5 Minute Urology Consult". In the field of urologic laparoscopy, he is co-editor of "Laparoscopic Urologic Surgery", the first color atlas in this area, and serves as the urology section editor for "Gleason's Urology: Surgency - Recovering From Prostate Cancer", co-authored by Dr. Gomella, which was the first book for this topic in 1994. In the field of medicine, Dr. Gomella is widely known for the "Clinician's Pocket Reference", with the 10th edition published in 2004. The book, popularly known as the "Scout Monkey Handbook", is a widely used reference for medical students and other health care providers. He is the series editor for McGraw-Hill's "On Call" and "Clinicians' Pocket Drug Reference" annual reference series. Dr. Gomella often calls on the writing skills of his faculty and residents with authorship of chapters in his many updated editions.

Dr. Gomella has served as President of the Mid-Atlantic Section of the American Association of Genitourinary Surgeons in 2008. The University of Kentucky College of Medicine awarded him the "Distinguished Alumnus Award For Academic Excellence" in 2009.

Dr. Gomella's focus as chairman has been to expand the training programs, to further develop the basic science and translational research programs and to continue to expand the clinical faculty to keep up with the growing demand for urology. In 1999, Dr. Gomella founded the Kimmel cancer Center Genitourinary Multidisciplinary Clinic which is internationally recognized as a model for the care of prostate cancer patients.

2011 THOMAS JEFFERSON UNIVERSITY HOSPITAL UROLOGY RESIDENCY PROGRAM

The Urology Residency training program is a six year program that provides a well balanced experience in all major disciplines of Urology. These residents are accepted each year through the AUA Match Program. In 2010 this program was awarded another two to three residents per year. Upon completion of the program, the individual is equally well prepared to enter private practice, academics or competitive fellowship training.

Dr. **Patrick Shenot** (TJUH Residency '97) is the Director of the TJUH Urology Residency Training Program at Jefferson. The program provides training in every sub-specialty of urology. Eighteen months of preliminary general surgery is completed at Thomas Jefferson University Hospital that includes exposure to all surgical disciplines including transplantation. The urology residency allows exposure to a variety of practice settings: an academic medical center (Thomas Jefferson University Hospital), a community hospital (Byrd Mawr Hospital), the Wilmington Veterans Administration Hospital, and the Nemours/Alfred I. DuPont Hospital for Children. In addition to a comprehensive conference and grand rounds schedule, the program also incorporates dedicated research time and ongoing involvement with translational research and clinical trials. State-of-the-art laparoscopic and robotic surgical simulators are used in training. Departmental resources are designed to enhance the learning of our house-staff while providing state of the art care for our patients.

Patrick J. Shenot, MD

The urology faculty consists of 18 clinical physicians and 3 basic science researchers based at Thomas Jefferson University Hospital. Our pediatric staff includes four full-time attending physicians who practice at a nearby Gator/GAL duPont Hospital for Children and at Thomas Jefferson University Hospital. Additional affiliate faculty maintain practices at Byrd Mawr Hospital and at the Wilmington VA Medical Center. Our Department focuses nationally and internationally recognized faculty in all major disciplines including endourology, laparoscopy, urologic oncology, neuro-urology, female urology, andrology, and pediatric urology. Basic science efforts include focused research programs in urologic oncology, neurourology, and bladder infection and inflammation. Translational research correlations are stressed in all areas of clinical activity.

Our Urology Department has established a 2-Year Fellowship in Endourology and Laparoscopy, which is certified by the Endourology Society as set forth by Dr. **Demetrius Bagley**, an international leader in the field of Endourology. The Fellow will work with the physicians who specialize in endourology and minimally invasive urology in the Department of Urology and the Kimmel Cancer Center of Thomas Jefferson University. Dr. Demetrius Bagley and Dr. Scott Hubsky are responsible for the endourologic aspects of the training. Laparoscopy and minimally invasive urologic oncology are managed by Dr. Costas Lallas with Drs. **Leonard Gomella, Edward Trabulsi and Scott Hubsky** at Thomas Jefferson University Hospital. The fellowship focuses on uroterectomy, percutaneous nephrostomy, laparoscopic renal procedures, including nephrectomy, nephroureterectomy and pyeloplasty, as well as laparoscopic radical prostatectomy. Fluorescence and robotically assisted procedures are employed. There is also a program in brachytherapy and other techniques in minimally invasive oncology including cryotherapy. The Fellow also participates in the Stone Clinic, and the Multidisciplinary GU Oncology Clinic at the Kimmel Cancer Center and in the endourology service at the VA Hospital in Wilmington, Delaware.

2010-2011 Urology Residents

Thomas Jefferson University Hospital
2011 David M Davis Visiting Professor, **William Steers, MD**

UROLOGICAL HIGHLIGHTS - DEPARTMENT OF UROLOGY AT JEFFERSON MEDICAL COLLEGE

- First report of renal pedicle tourniquet applied around renal artery and vein while closing after partial nephrectomy by Dr. T. C. Stellwagen.
- Careful staging of bladder cancer by depth of invasion. Dr. George Strong coauthored the historic "Jewett-Strong" classification of bladder cancer with Dr. Jewett (1946).
- Female urethras were dilated for a variety of indications including bladder emptying, irritable bladder syndrome with or without incontinence, and urethral discomfort investigated and widely promoted by Dr. T.R. Fetter.
- Controlled decompression of chronically distended bladders by slowly lowering the pressure over intervals up to 24 hrs pioneered by Dr. David M. Davis.
- The modern urolithotomizer was invented by **Willard M. Drake, Jr., MD** (1946). The original manuscript, entitled "The Urolithotome: an aid to the study of the lower urinary tract," appeared in "Journal of Urology" (1944). Drake obtained a US patent for the device, entitled "Urolithotome" (1953).
- Dr. David M. Davis was the first to use the word "urodynamic".
- Development of a urodynamic measurement device, the urodynamic pressure recording during bladder filling, as a diagnostic tool of incontinence or retention.
- First report of electrocautery of a quadriplegic man resulting in pregnancy was by Dr. Irvin Hirsch (1950).

- Uroterectomy firsts by Dr. Demetrius Bagley include: ultrasonic lithotripsy (1983), endoscopic recanalization of the obliterated upper urinary tract (1985), holmium laser lithotripsy of upper ureteral calculi (1989) and renal calculi (1996), and endoluminal ultrasound of the ureter (1995).
- First formal Urological Laparoscopy Program in Philadelphia (1991).
- First use of RT-PCR to identify circulating cells in prostate cancer patients (1992). Dr. Moreno, Mulholland and Gomella. Three US. Patients were awarded to Jefferson for this discovery.
- First book on prostate cancer for the general public entitled "Recovering From Prostate Cancer", co-authored by Dr. Leonard Gomella and Philadelphia Inquirer writer John Field. (1993).
- Board of Trustees appointed Dr. Leonard Gomella the first Bernard W. Godwin Professor of Prostate Cancer, the first prostate cancer specific chair in the US (1994).
- First fully integrated multi-disciplinary GU Cancer Center was established at Kimmel Cancer Center (1996).
- First Microwave Thermotherapy Unit in the Delaware Valley at the Pennsylvania Prostate Center at Jefferson (1997).
- First Laparoscopic Radical Prostatectomy in Delaware Valley performed by Drs. McGinnis and Strup (2000).
- Dr Leonard A Frank Museum of Urology that features many historic artifacts from the field of urology(2004).

UROLOGY RESIDENCY PROGRAM GRADUATES - THOMAS JEFFERSON UNIVERSITY HOSPITAL

- | | | | |
|---------------------------------|---------------------------------|--------------------------------|------------------------------|
| 1948 Emanuel N. Lubin, MD | 1969 Jorge M. Gonzales, MD | 1984 Michael W. Bickerton, MD | 1997 Akhli Das, MD |
| 1949 T. Burton Smith, MD | 1970 Robert T. Berwind, MD, PhD | 1984 Frank L. O'Lea, MD | 1997 Patrick J. Shenot, MD |
| 1950 Willard M. Drake, Jr., MD | 1971 Jacques De Caestecker, MD | 1985 Haynes B. Cates, MD | 1998 Michael Fabrizio, MD |
| 1951 Lawrence N. Gorrah, MD | 1971 Lawrence N. Gorrah, MD | 1986 James Scudder, Jr., MD | 1998 Scott Hubsky, MD |
| 1951 J. Elder Bryan, Jr., MD | 1972 Bhendrupa Tolia, MD | 1986 Thomas P. Lehman, MD | 1999 Robert Hong, MD |
| 1952 William A. Morton, Jr., MD | 1972 Terren M. Himeffarth, MD | 1986 Kenneth M. Weisman, MD | 1999 Kenneth Fitzpatrick, MD |
| 1952 Donald H. Maurice, MD | 1972 Malcolm R. Scott, MD | 1987 David J. Ellis, MD | 1999 Brett Srouch, MD |
| 1953 Nicholas R. Varano, MD | 1973 Thomas DeBenedictis, MD | 1987 Michael H. Rittenberg, MD | 1999 Ravi Rajan, MD |
| 1954 Joseph J. Blanch, MD | 1974 David A. Kelsey, MD | 1988 Peter J. Muench, MD | 2001 Edward Trabulsi, MD |
| 1955 Kenneth C. Warren, MD | 1974 Michael J. Gliemlich, MD | 1988 A. Randall Seeger, MD | 2001 David Lee, MD |
| 1956 James S. Feldman, MD | 1974 Harry A. Manes, MD | 1989 Richard P. Lusk, MD | 2001 Pasquale Casale, MD |
| 1957 James J. Gallagher, MD | 1975 Stuart L. Brodsky, MD | 1989 Stephen R. Walker, MD | 2001 M. Louis Coy, MD |
| 1958 George Eptimides, MD | 1975 Jay J. Handler, MD | 1990 James E. Allen, MD | 2003 John Oh, MD |
| 1958 James F. Carroll, MD | 1976 P. Kenneth Brownstein, MD | 1990 Daniel J. Cohn, MD | 2003 Jay Zink, MD |
| 1959 Murray H. Kimmel, MD | 1976 Kasturi Shanker, MD | 1991 David A. Rivas, MD | 2004 Mohammed Ismail, MD |
| 1960 Bradford M. McCuskey, MD | 1977 John R. Dalton, MD | 1991 James L. Stefanelli, MD | 2004 Frank Nezu, MD |
| 1960 Robert N. Cottone, MD | 1977 Robert N. Fritzy, MD | 1992 Michael Grasso, III, MD | 2004 Scott Hubsky, MD |
| 1961 Jose Amado Perez, MD | 1978 Suhas P. Mumjdar, MD | 1992 Richard G. Nord, MD | 2004 Chris Garritz, MD |
| 1962 Paul D. Zimskind, MD, PhD | 1978 William M. Wixted, MD | 1993 David E. McGinnis, MD | 2006 Iliia Zeltser, MD |
| 1962 Jose R. Yunes, MD | 1979 Krishna K. Jhaveri, MD | 1994 Jonathan L. White, MD | 2006 Mark Zhang, MD |
| 1963 Francis P. Barton, MD | 1980 Pradeep K. Pandya, MD | 1994 Deborah A. Bales, MD | 2007 John R. Ramey, MD |
| 1964 Alan I. Snyder, MD | 1980 Vijay S. Athani, MD | 1995 Michael E. Strup, MD | 2007 William Merriam, MD |
| 1965 Max M. Koppel, MD | 1981 Doanh Pham, MD | 1995 Stephen J. Enrah, MD | 2008 Ian Waldman, MD |
| 1965 Donald Comter, MD | 1981 Joseph D. Corti, MD | 1996 Jose G. Moreno, MD | 2008 Craig Stoteroff, MD |
| 1966 Jean P. Pracat, MD | 1981 Girhard S. Purohit, MD | 1996 Stuart N. Liberman, MD | 2009 Paul Gitens, MD |
| 1966 Donald E. Prasius, MD | 1982 Thomas S. Goodman, MD | 1996 Francis X. Kealey, Jr. MD | 2009 Eric Nelson, MD |
| 1967 Duits L. Keestler, Jr., MD | 1982 Michael P. Moevillite, MD | 1997 Patrick J. Shenot, MD | 2010 Robert Lindner, MD |
| 1967 George N. Riffe, MD | 1983 Nathan P. Goldin, MD | 1997 Stuart N. Liberman, MD | 2011 Mark Pe, MD |
| 1968 Leonard A. Frank, MD | 1983 Michael P. Mooreville, MD | 1998 Stuart J. Shenot, MD | 2011 James Johannes, MD |
| William D. Ziegenfus, MD | | 1998 Francis X. Kealey, MD | 2011 Jitesh Patel, MD |