

Bi-ventricular VAD Patient goes home

Tessical Robinson was a generally healthy 19-year-old African-American female who delivered her first child in November of 2000 by C-section. By all accounts the pregnancy and birth were without complications and she was in otherwise good health.

During the month following the birth she began to develop progressive shortness of breath. At the point when she developed



Phillip Camp, M.D., Cardiothoracic Surgeon and Tess Robinson

dyspnea on exertion so severe that she needed to rest after a single flight of stairs, Thomas F. Wayne, M.D., a cardiologist and professor of medicine at the University of Kentucky, evaluated her. A chest film showed a very large heart, and a subsequent echocardiogram revealed that her heart was extremely dilated and had evidence of markedly reduced left ventricular function (hypokinesis). She started aggressive medical therapy.

Tess continued to have symptoms but was clinically stable with optimized medical management. Due to the severe degree of cardiac dysfunction and objective findings of progressive failure she was referred to the University of Kentucky Heart Transplant Program in March of 2001. At that time the surgical team felt that she was in need of heart transplantation, but she was frightened of contemplating the idea of transplantation and refused to be put on the list.

By the fall of 2001, Tess had progressive symptoms of heart failure. She required
continued on p. 2

September Colloquium features speakers on Trauma and Cardiothoracic Surgery research

Andrew Bernard, M.D., a new member of the General Surgery/Trauma faculty and Gentian Kristo, M.D., a postdoctoral scholar in the Division of Cardiothoracic Surgery, were the two young researchers who presented their work at the Department of Surgery Research Colloquium on September 17. Dr. Bernard's presentation was entitled, "Extrahepatic Arginase in the Immune Response to Trauma," and Dr. Kristo presented "The Combination of the Sodium-Hydrogen Exchange Inhibitor Caropride and the Adenosine Agonist AMP579 Acts Synergistically to Reduce Myocardial Infarct Size."

Dr. Bernard spoke about the immune system and its reaction to physiologic stress. His presentation focused on arginine levels that are significantly suppressed in stressed patients. He pointed out that arginine



Andrew Bernard, M.D. with faculty member Betty Tsuei, M.D.

supplements for patients have been in use for a while, but the basic science behind them is not
continued on p. 5

"The Department of Surgery has three principal goals: outstanding resident and medical student education, excellent patient care, and high quality research activities."

*Robert M. Mentzer Jr, M.D.
Frank C. Spencer Professor and Chairman,
Department of Surgery*

In This Issue:

Bi-ventricular VAD patient	1
September Colloquium	1
New Faculty	2,3,4,5,8
UK Trauma Center	3
Medical Center Funding	
Awards	4
July Colloquium	4
Dr. Selby in the news	5
Resident of the Month	6
Wildcat Medical Symposium	6
Resident Picnic	6
Awards and Honors	7
External Project Grants	7
Dr. Strup - Urology	8
Welcome to Julianna Lee	8
Faculty Publications	9
Faculty Presentations	10-11
Grand Rounds	12

Vol. 6, No. 2

UK
UNIVERSITY OF KENTUCKY
College of Medicine
Department of Surgery

New Faculty



Joseph Iocono, M.D.

Joseph Iocono, M.D., joins the division of Pediatric Surgery as an Assistant Professor. He comes to the University of Kentucky after completing a fellowship in pediatric surgery at St. Christopher's Hospital for Children, Drexel University School of Medicine, Philadelphia, Pa. Dr. Iocono received his medical degree from Thomas Jefferson University in Philadelphia and performed his general surgery residency at the Milton S. Hershey Medical Center, Pennsylvania State University, Hershey, Pa.



Timothy Wilson, M.D.

Timothy Wilson, M.D. is an Assistant Professor in the division Joseph Iocono, M.D., joins the division of Pediatric Surgery as an Assistant Professor. He comes to the University of Kentucky after completing a fellowship in pediatric surgery at St. Christopher's Hospital for Children, Drexel University School of Medicine, Philadelphia, Pa. Dr. Iocono received his medical degree from Thomas Jefferson University in Philadelphia and performed

VAD Patient

continued from page 1

several emergency room visits, and admissions to the intensive care unit. During that time her heart failure continued to progress to a point of massive dilatation (13 cm) and her heart function fell even more (ejection fraction less than 10%). In October of that year she was so sick she became dependent on continuous infusions of milrinone (intravenous heart failure medicine), both in the hospital and as an outpatient. Her overall condition was severe; she had dramatic weight loss (cardiac cachexia) and was limited to minimal activity without developing shortness of breath and chest discomfort. When Tess had reached this point of heart failure (Class IV, nearly bed ridden and dependant on medications), the transplant team evaluated her again and felt that she was appropriate for transplantation. She accepted transplantation at this point and was listed with UNOS for a new heart.

Tess continued to have worsening symptoms of heart failure despite maximal medical therapy and was ill over the Christmas and New Year holidays. The severity of her heart failure troubled the members of the transplant team; they were concerned that she would not be able to live long enough to reach transplantation. Her transplant surgeon, M. Salik Jahania, M.D., began to discuss the possibility of implanting a mechanical heart assist pump to "bridge" her to a transplant as she was too clinically unstable. Due to her small body habitus she was not going to be a candidate for the fully implantable Heart Mate VE Ventricular Assist Device (VAD), made by Thoratec, Inc.: the most commonly used devices in heart failure patients. A VAD is a mechanical blood pump that attaches to the patient's heart. The blood passes into the pump through a pipe and one-way valve and is pumped out into the patient's arteries under pressure; a VAD takes over the function of a failed ventricle. A VAD can be implantable with the tubing and pump contained within the body, or externally with tubing that passes transcutaneously to the heart. The Thoratec biventricular VAD system has an external pump and is well suited for smaller patients, and/or biventricular support.

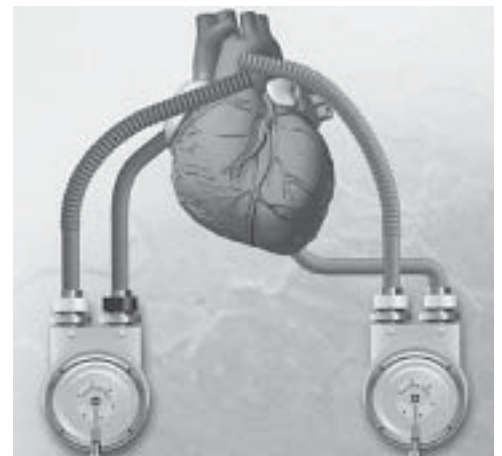
Tess was admitted again in January 2002 for severe decompensated right and



Thoratec TLC-II®

left ventricular (biventricular) heart failure and seemed to be at a point beyond the efficacy of medical management. She was initially resistant to undergoing the procedure, but as she became increasingly unstable she knew that a heart assist device was her only chance of living to transplant. In critical condition, she was brought to the operative suite on "Superbowl Sunday" for placement of a biventricular VAD. Her condition was marginal and she suffered cardiac arrest at the time that her chest was being opened. She received open cardiac massage and was emergently placed on cardiopulmonary bypass, returning blood flow to her body. Left and right-sided Thoratec VADs were placed without complication and began pumping blood to her lungs and body immediately. Her heart became a passive conduit for blood while the VADs maintained her vital signs.

She ultimately recovered in the intensive care unit and moved to the CT ward where she fully recovered from her surgery. One limitation of the Thoratec VAD system is that it was not originally designed for use out of the hospital, which meant that Tess, a new mother, would have to remain in the hospital while awaiting



Thoratec® VAD System

transplantation. For a number of reasons she was expected to have a long wait for a new heart. The main function of a VAD is to return normal heart function, which in turn provides other organs normal perfusion and thus function. In Tess's case, she returned to normal heart and organ function, and as a result, she was a "healthy" woman housed in the hospital awaiting transplantation.

During this time, the Thoratec company released a portable driver unit (power unit), the TLC-II, for the Thoratec VAD system and began a FDA trial to see if this highly mobile unit would be safe for out of hospital and home use. The University of Kentucky was not originally part of that study which meant that Tess was not eligible for enrollment. Through the efforts of Dr. Jahania, the

Thoratec company allowed the University of Kentucky to become a center for the FDA approved study, and with it, allowed Tess to be enrolled.

Tess was discharged to home in January of 2003 to be with her child and her family. She has now been living in the community, able to move about and perform most normal activities thanks to the efforts of Dr. Jahania and the new TLC-II portable driver unit. She is followed by the transplant team and her coordinators, Julie Leigh, R.N., Dorothy Lockhart, R.N. and BeLinda Connor, R.N. Tess visits the transplant center every week for a check-in. She has done well and is living a normal life as a mother while waiting for a new heart.

UK Trauma Center's Surgeons Provide Excellent Care

The Committee on Trauma of the American College of Surgeons (ACS) has re-verified the Trauma Center at the University of Kentucky Hospital as a Level I trauma center. This achievement recognizes that UK Hospital Trauma Center is committed to providing high-quality, timely and cost-effective care for patients with complex, multi-system trauma or single-system trauma requiring specialized surgical services.

Trauma is the leading cause of mortality and morbidity for individuals younger than 40 years of age. Specialized trauma centers are effective in reducing rates of death and disability associated with injury. "The UK Hospital Trauma Center is one of only three Level I centers serving the needs of Kentuckians. It is the only center providing tertiary trauma care for Central and Southeastern Kentucky," said Paul A. Kearney, M.D., chief of UK Hospital Trauma and Critical Care and professor of surgery, UK College of Medicine. The other two centers (one adult and one pediatric) are located in Louisville.

What does this verification mean? Kathy O'Donnell Thielman of the ACS says, "The major differences between a Level I trauma center and all others are: A Level I center needs a residency program or a trauma fellowship program; it must have a surgical director of the ICU; a research program; 24/7 MRI availability; an in-house cardiothoracic technician; 24 hour in-house OR availability; cardiopulmonary bypass capability; and cardiac surgery and microvascular / replant surgery."

The UK Trauma Center had its first ACS visit in 1989 and has met the requirements for Level I verification in the six subsequent visits. Ms. Thielman adds, "The University Hospital Trauma Center has consistently stepped up to meet the challenges to maintain their Level I verification; this also speaks highly of the hospital's commitment to the citizens it serves."

Dr. Kearney was instrumental in the original verification of the center and its continued excellence. He gives a great deal of credit to the surgeons and staff on his team, saying that their dedication and cooperation combine to keep the standard of quality high. The team also is required to work to provide more streamlined care that will result in better patient outcomes, both clinically and financially.

Another crucial element in the service provided by the Trauma Center is the transportation of patients by the UK Hospital Emergency Transport Services. In 2002, the neonatal/pediatric transport team completed more than 600 transports and the UK Air Medical Service made more than 1,200 flights and they are continuing to focus on providing excellent patient care.

This verification by the ACS, a scientific and educational association of surgeons, reminds the University, the community and the Commonwealth of Kentucky, that our surgeons, physicians and staff are not only highly trained, but are constantly working to provide the optimum in health care to Kentuckians.

New Faculty



Thad Jackson, M.D.

Thad Jackson, M.D., Assistant Professor, joins the Neurosurgery faculty. Dr. Jackson received his M.D. from Indiana University School of Medicine, Indianapolis. He performed his internship and neurosurgery residency at UK and a spine fellowship at the University of Tennessee.



Erin Moore, M.D.

Erin Moore, M.D., is in the Department of General Surgery as a Clinical Instructor. He has been at the University of Kentucky since 2002 when he came as a Clinical Fellow in Vascular Surgery and will complete an additional Fellowship in Endovascular Surgery in 2004. Dr. Moore is a Lt. Commander in the Medical Corps of the United States Navy, he graduated from the University of Texas Southwestern Medical School and performed his residency at the Naval Medical Center, San Diego.

New Faculty



Daniel Primm, M.D.

Daniel Primm, M.D., received his medical degree from the Medical College of Georgia and performed his residency at the University of Kentucky. He comes to the Division of Orthopaedic Surgery as an Assistant Professor.



Sibiu Saha, M.D.

Sibiu Saha, M.D., comes to the University of Kentucky as an Assistant Professor in the Division of Cardiothoracic Surgery. He received his doctorate from Rajshahi Medical College in Bangladesh where he also performed a surgical internship. Dr. Saha performed a residency in General Surgery at Jacksonville Hospital Educational Program and the University of Florida, and a residency in Thoracic and Cardiovascular Surgery at the Medical University of South Carolina in Charleston.

Medical Center Funding Awarded to Department of Surgery

The Medical Center Research Advisory Committee has reviewed applications and approved the following grants from researchers in the Department of Surgery to be funded through the Medical Center Research Fund:

Andrew Bernard, M.D., General Surgery, Induced L-arginine Catabolism in Human Monocytes, \$14,989.

Cherry Ballard-Croft, Ph.D., Cardiothoracic Surgery, Intracellular Localization of p38 MAP Kinase Isoforms in Myocardial Injury, \$15,000.

Yong-Woo Lee, Ph.D., Neurosurgery, Estrogen Protects the Methamphetamine-Induced Injury to Brain Endothelium, \$15,000.

Brian Rinker, M.D., Plastic Surgery, Prevention of Flexor Tendon Adhesion with an Absorbable Hydrogel Sealant, \$14,990.

Hong-Bo, Zhao, M.D., Ph.D., Otolaryngology, Identification of Adult Stem Progenitor Cells in the Mammalian Cochlea, \$15,000.

General Surgery Research Program Report at the July Colloquium

On July 16, Anna Rockich, Pharm.D., Assistant Professor in the Division of General Surgery and Acting Director of the General Surgery Research Program (GSRP) presented, "The General Surgery Research Program, From Inception to Present Activity."

She spoke of the need for faculty opportunities in research and the limited time that faculty members have to devote to it. Dr. Eric Endean and Dr. Paul Kearney approached her six years ago to assist in the formation of the research program. The department was looking for consistent, competent research support in industry and investigator initiated trials. Another concern was to take some of the pressure off the investigators and divide up responsibilities. Traditional research models included only the principal investigator and the study coordinator, leaving a great deal of responsibility to the investigator, such as, protocol review, medical issues, budget,

contract, IRB and screening. The initial GRSP model began with the principal investigator, then to a research manager, then branched to administrative support and two study coordinators. The current model takes the concept further by branching into regulatory and financial administrators after the research director, then into specialized research managers, who each have study coordinators. The new model successfully divides most of the responsibilities to research support, leaving the principal investigator to deal with ideas, protocol development, legal, and medical issues, thus, making the best use of his or her time. The results have been impressive. In 1997-98 the division had 8 industry-sponsored studies and no investigator-initiated studies, however, by 2001-02, the number had grown to 19 industry-sponsored studies and 37 investigator initiated studies.

September Colloquium, continued from page 1

understood. Using first an animal model then data from trauma patients Dr. Bernard and his colleagues tracked levels of arginine and a novel enzyme, arginase, which metabolizes arginine. They have identified elevated levels of arginase and some of the regulatory mechanisms for that elevation after trauma. These are initial steps in understanding why physiologic stress may suppress arginine levels.

Dr. Kristo presented research on the reduction of myocardial infarct size using a combination of cariporide and AMP 579. He and his colleagues used a porcine model to test whether combinations of sodium hydrogen exchange inhibitor cariporide + adenosine (ADO) A_1/A_{2a} agonist AMP579 inhibit *in vitro* polymorphonuclear neutrophils (PMN) activation and act synergistically to limit *in vivo* myocardial infarction. They found that



Professor of Urology, Natasha Kyprianou, Ph.D. with Gentian Kristo, M.D.

only when combined, Cariporide + AMP 579 significantly reduced PMN oxidative burst and may limit PMN-mediated reperfusion injury. The results of their study indicated that combining Cariporide with ADO agonists may represent a superior intervention in attenuating myocardial ischemia-reperfusion injury.

Jeffrey Selby, M.D. in the news

On June 17, a twelve-year old girl was pulled from her mother's grasp in the floodwaters of Prather Creek, near Loretto. After she traveled nearly three miles downstream, she was able to cling to a tree for several hours where rescuers from Taylor and Marion counties found her. Her story of survival was picked up by the national news.

She had suffered injuries to both legs, the left leg had an open fracture and she developed infections in both legs. She was brought to UK Children's Hospital and is under the care of Jeffrey Selby, M.D., who appeared on the

news locally and nationally, including NBC's Today Show to comment on her condition.

She has endured over 20 surgeries, her wounds requiring debridement of a large portion of her tibia and plastic surgery coverage with muscle flaps and skin grafts. Her soft tissues have healed and she is in treatment for transport of bone to fill the defect. "She is tolerating the process well appears to be in good spirits," says Dr. Selby, "it has been a pleasure taking care of this girl and her injuries"

New Faculty



Andrew Bernard, M.D.

Andrew Bernard, M.D., is a new Clinical Instructor, in the Division of General Surgery. He joins the faculty after completing a fellowship in surgical critical care/trauma at UK. Dr. Bernard also received his medical degree from the University of Kentucky.

Department of Surgery Research Colloquium

presents:

Wednesday, November 19, 2003

8:30 a.m. - 9:30 a.m.

H133 (across from Hospital Cafeteria)

Alfred Cohen, M.D.

Professor of Surgery and Director of the Markey Cancer Center

"Academic Training/Mentoring Residents and Fellows"

Natasha Kyprianou, Ph.D.

Professor of Urology and Molecular and Cellular Biology

"Research/Funding Opportunities for Residents/Junior Faculty"

Resident of the Month



AUGUST 2003

David R. Wilkinson, M.D., Urology, has been selected as the resident of the month for August 2003. Several members of the UK nursing staff nominated Dr. Wilkinson. They commented that Dr. Wilkinson's attitude is superb; he treats staff with respect and is helpful. Other comments include: "He is compassionate, has a great bed-side manner of explaining the situations and illness to patients/families."

As the recipient of the Resident of the Month award, Dr. Wilkinson will have his picture posted at UKMC and the VA and will receive a \$150.00 gift certificate to the UK Medical Bookstore; \$80.00 in the next paycheck, provided by the Medical Professions Placement Service, to pay for dinner at one of Lexington's fine restaurants, and a parking space for a month in the VA parking garage.

To nominate for Resident of the Month, send an email to:
g.residentofthemonth
@lexington.med.va.gov

2003 University of Kentucky Sports Medicine Wildcat Medical Symposium

The 5th Annual Wildcat Symposium was held May 16-17, 2003 at the Hyatt Regency Lexington. This year was another very successful year with an excellent agenda and faculty presenters.

The Keynote speaker was Champ L. Baker, M.D. from the Hughston Clinic in Columbus, Georgia. Dr. Baker is the former president of The Hughston Clinic, the former Director of the Sports Medicine Fellowship Program and the former Chief of Staff and Chief of Surgery at the Hughston Sports Medicine Hospital. He is currently the team physician for the Columbus RedStixx (Class A Baseball) and Columbus State University. Dr. Baker is a renowned figurehead in the development of sports medicine today. Dr.



Scott Mair, M.D., Wildcat Symposium Director; Champ Baker, M.D., Keynote speaker; Darren Johnson, M.D., Chief of UK Orthopaedic/Sports Medicine

Baker also participated in the Orthopaedic resident and fellow case presentations Thursday, May 15th held at the Nutter Training Facility.

Resident Picnic

A Welcome Picnic for the new Department of Surgery residents was held at Jacobson Park on June 30, 2003. The Welcome Picnic gave new residents an opportunity to meet the faculty and current residents in a casual setting before they started on July 1.



Family time with Nathan Bates, M.D., his wife Paige Bates, M.D. and daughters



Kirk Grynwald, M.D. chats with Matthew Bush, M.D.



Paul Rider, M.D. (foreground), Mark Schoemann, M.D. and Bo Rivera, M.D.

Awards and Honors



Andrew Pulito, M.D.

Andrew Pulito, M.D. was installed as the President of the Kentucky Medical Association at a luncheon on September 10. Dr. Pulito has been a member of the KMA Board of Trustees since 1995 and has served as both Board Chair and Vice-President. Dr. Pulito is Chief of Pediatric Surgery and Vice-Chairman of the Department of Surgery

Alfred M. Cohen, M.D. was voted into the Fellowship of the American Society of Colon and Rectal Surgeons (FASCRS). Fellowship is limited to board-certified colorectal surgeons, but in recognition of his contributions to the field of colorectal cancer surgery as a surgical oncologist, he was appointed a Fellow. Dr. Cohen has been a member of FASCRS for twenty years. He is a professor of surgery and the Director and Chief Executive Officer of the Markey Cancer Center.



Alfred Cohen, M.D.

The Kentucky Chapter of the American College of Surgeons held its fiftieth annual meeting this spring in Lexington. The chapter received a fiftieth anniversary commemorative charter from the College's executive director. A number of residents participated in a papers competition and

Andrew Bernard, M.D., a new faculty member in General Surgery, won second prize with his entry "ATV injury in youth: A predictor for need for surgery." The paper was co-authored by **Stephen Barnes, MD; Paul Kearney, MD; Betty Tsuei, MD;** and **Bernard Boulanger, MD.**

Easton Reid, Ph.D., a postdoctoral fellow in cardio-thoracic surgery, has been awarded a Lyman T. Johnson Minority Postdoctoral Fellowship by the university. The fellowship, named in honor of UK's first African-American student, supports minority postdoctoral fellows in under-represented graduate and professional areas.

Urology resident, **Andrew McGregor, M.D.**, is the 2003 Pfizer Scholars in Urology Grant recipient at the UK Chandler Medical Center. Dr. McGregor was nominated by **Randall Rowland, M.D.**, chief of Urology, for this year's award.

Congratulations to **William Rosenblum, M.D.** Our residents have selected him as the outstanding faculty teacher of year. Dr. Rosenblum is an Assistant Professor in Orthopaedic Surgery



Easton Reid, Ph.D.



William Rosenblum, M.D.

External Project Grants Awarded

- **William Douglas, M.D.**, has been awarded a \$100,000 Small Business Grant from the NIH for a project entitled "Prototype of an Adjustable Systemic-Pulmonary Artery Shunt."
- **Nader Hanna, M.D.**, has been awarded a \$171,263 grant from GenVec, Inc. for a project entitled "A Phase II Multicenter Randomized Evaluation of Preoperative Chemoradiation vs. Properative Chemoradiation Plus TNFerade™ Biologic (ADgvERG.TN.11D) Prior to Esophagectomy for Locally Advanced Esophageal Center." He has also been awarded a \$6,300 grant from the American College of Radiology for a project entitled "Study Chair of the Radiation Therapy Oncology Group."
- **Paul Kearney, M.D.**, has been awarded an \$85,805 grant from Wyeth Research for a project entitled "A Multicenter Double-Blind, Randomized, Comparison Study of the Efficacy and Safety of Tigecycline to Imipenem/Cilastatin to Treat Complicated Intra-Abdominal Infections in Hospitalized Subjects."
- **Robert Lasley, Ph.D.**, has been awarded a \$2,500 grant from the American Heart Association Summer Research Fellowship for a project entitled "Mitochondrial Control of Postischemic Cardiomyocyte Injury."
- **Yong-Woo Lee, Ph.D.**, has been awarded an \$88,000 grant from the American Heart Association for a project entitled "Molecular regulatory mechanisms of IL-4-induced MCP-1 expression in vascular endothelium."
- **William Shaffer, M.D.**, has been awarded a \$43,580 grant from DePuy AcroMed for a project entitled "Biomechanical Characteristics of Lumbopelvic Fixation Strategies."
- **Michal Toborek, Ph.D.**, has been awarded a \$76,000 grant from the American Heart Association for a project entitled "Role of Ethanol in HIV-1 Tat induced dysfunction of mouse cerebral endothelial cells."
- **Byron Young, M.D.**, has been awarded a \$69,999 grant from Pharmos Corporation for a project entitled "Efficacy and Safety Evaluation of a Single Intravenous Dose of Dexanabinol in Patients Suffering from Severe Traumatic Brain Injury."

New Faculty



Hoonbae Jeon, M.D., Ph.D.

Hoonbae Jeon, M.D., Ph.D., has joined the Section of Transplantation as an Assistant Professor. He comes to UK after completing a fellowship in multiorgan transplantation at the Albert Einstein Medical School in Philadelphia, Pa. Dr. Jeon received his medical degree from the Korea University School of Medicine in Seoul, Korea.

Welcome



Julianna Lee

Julianna Lee joins the Department of Surgery as Associate Administrator. She comes to Kentucky from Iowa City where she was the Catering Operations/Sales Manager at the Iowa Memorial Union Food Services. Ms. Lee also has experience with clinical management and is a graduate of the University of Iowa, Iowa City.

Stephen Strup, M.D., Urology - a New Face in the Department of Surgery

Stephen E. Strup, M.D., F.A.C.S., comes to the University of Kentucky from Thomas Jefferson University where he was Director of Minimally Invasive Oncology and Co-Director of the Prostate Center at Thomas Jefferson University, Philadelphia, Pa. He was also Course Director in Laparoscopic Radical Prostatectomy and Hand Assisted Laparoscopic Nephrectomy (HALN), for the Ethicon-Endo-Surgery Institute, Cincinnati, Ohio.

From a small town, he studied zoology at DePauw and found that he liked the science, but also wanted to interact with people and chose medical school as a way to combine the two. He received his medical degree from Indiana University School of Medicine in Indianapolis and performed his residency in general surgery and urology at Jefferson Medical College, Philadelphia. He found that as he faced the decision tree in medical school, he was drawn to surgery. He happened to take a Urology elective and enjoyed the variety it afforded and the relationships with patients. "I also chose it for my family," he added laughing, "there are fewer calls in the middle of the night." Dr. Strup is married to Sue Strup and they have two children, Spencer (10) and Sydney (4).

After completing his Urology residency, Dr. Strup spent two years at the National Cancer Institute focusing on cancer research. His goal was to pursue a career in urologic cancer surgery. His career course was changed a bit after performing a laparoscopic nephrectomy on a patient. Dr. Strup was pleased with the cancer control and amazed at the speedy recovery and quality of life his patient enjoyed. "The primary reason for surgery is to render the patient cancer free, if I do not have to compromise my



Stephen Strup, M.D.

commitment to that goal, I want to make sure the patient's quality of life is the best it can be," he said.

Dr. Strup has since been tireless in his work with minimally invasive urologic surgery. He has been especially active in teaching hand-assisted laparoscopic surgery, a variation of laparoscopic surgery that allows the surgeon to place one hand in the patient during the procedure. His most recent focus has been on performing laparoscopic radical prostatectomy for men with localized prostate cancer. He is dedicated to teaching and clinical research and enjoys working with the resident staff and students who "keep him on his toes." He is widely published in his field and has presented nationally and internationally. He serves on the editorial boards of *Techniques in Urology* and *Contemporary Urology*, is an ad hoc reviewer for the *International Journal of Cancer* and a consultant for the *Journal of Urology*.

Dr. Strup joins the faculty of the UK Department of Surgery, Division of Urology as an Associate Professor and Director of Minimally Invasive Urologic Surgery.

Mark your calendars for the
Department of Surgery, 3rd biennial
Strategic Planning Retreat
Friday, March 12, 2004
Hyatt Regency, Lexington

Faculty Publications

Cardiothoracic Surgery

- Mullet TW, Mentzer RM Jr.** Esophageal perforation and acute mediastinitis. In: Irwin RS, Cerra RB, Rippe JM, eds. *Intensive Care Medicine*, 5th ed. Philadelphia, Pa: Lippincott-Raven Publishers, 2003: 1633-1636.
- Mentzer RM Jr, Jahania MS, Lasley RD.** Myocardial Protection in the Adult. In: Cohn LH, Edmunds LH Jr, eds. *Cardiac Surgery in the Adult*, 2nd ed. New York, NY: McGraw-Hill Professional Publishing, 2003: 413-438.

General Surgery

- Salloum RM, Mauceri HJ, **Hanna, NN**, Gorski DH, Posner MC, Weichselbaum RR. Dual induction of the Epo-Egr-TNF-alpha-plasmid in hypoxic human colon adenocarcinoma produces tumor growth delay. *Am Surg* 69(1):24-7, 2003.
- Matthews BD, Bui H, Harold KL, Kercher KW, **Adrales G, Park A**, Sing RF, Heniford BT. Laparoscopic repair of traumatic diaphragmatic injuries. *Surg Endosc* 17:254-258, 2003.
- Harris J, Adrales G**, Chu U, **Schwartz R**. Abdominal ventral incisional herniorrhaphy: A Brief Review. *Curr Surg* 60:282-286, 2003.
- Chu U, **Adrales G, Schwartz R, Park A**. Laparoscopic incisional hernia repair: a technical advance. *Curr Surg* 60(3):287-291, 2003.
- Hanna NN, Mentzer RM Jr.** Molecular Genetics and Management Strategies in Hereditary Cancer Syndromes. *J Ky Med Assoc* 101(3):100-107, 2003.

Orthopedic Surgery

- Lawrence SJ, Nichols MA**, Lawton JN. A radiological case study. *Orthopedics* 26(1):111-112, 2003.
- Lawrence SJ, Grau GF.** Evaluation and treatment of open calcaneal fractures: A retrospective review. *Orthopedics* 26(6):1-6, 2003.
- Scutchfield SB.** All-terrain vehicles: injuries and prevention. *Clin Orthop Apr*;(409):61-72, 2003.
- Devlin VJ, **Shaffer WO.** Preoperative Assessment and Planning for Patients Undergoing Spinal Surgery. pp In: Devlin VJ, ed. *Spine Secrets*. Philadelphia, Pa: Hanley and Belfus; 2003: 168-173.
- Marguiles JY, Devlin VJ, **Shaffer WO.** Instrumentation and Fusion of the Spine to the Sacrum and Pelvis. In: Devlin VJ, ed. *Spine Secrets*. Philadelphia, Pa: Hanley and Belfus; 2003: 226-231.
- Patel AC, Shaffer WO**, Devlin VJ. Anesthesia and Related Intraoperative Considerations in Spinal Surgery. In: Devlin VJ, ed. *Spine Secrets*. Philadelphia, Pa: Hanley and Belfus; 2003: 237-242.
- Gorup JM, Devlin VJ, **Shaffer WO.** Postoperative Management and Complications after Spinal Surgery. In: Devlin VJ, ed. *Spine Secrets*. Philadelphia, Pa: Hanley and Belfus; 2003: 243-248.
- Marguiles JY, Devlin VJ, **Shaffer WO.** Revision Spine Surgery. In: Devlin VJ, ed. *Spine Secrets*. Philadelphia, Pa: Hanley and Belfus; 2003: 249-254.
- Sawyer PC, Uhl TL, Mattacola CG, **Johnson DL**, Yates JW. Effects of moist heat on hamstring flexibility and muscle temperature. *J Strength Cond Res* 17(2):285-90, 2003.
- Shaffer WO.** Primary Spinal Tumors. In: Devlin VJ, ed. *Spine Secrets*. Philadelphia, Pa: Hanley and Belfus; 2003: 420-427.
- Sciascia AD, Uhl TL, Mattacola, CG, McCrory JL, Nitz AJ, **Mair SD.** Muscle Activity Comparison of four Common Shoulder Exercises in Unstable and Stable Sholders. *J Athl Train* 38(2):S-9, 2003.

Otolaryngology

- Coda BA, Rudy AC, **Archer SM.** Pharmacokinetics and Bioavailability of Single-Dose Intranasal Hydromorphone Hydrochloride in Healthy Volunteers. *Anesth Analg* 97(1):117-123, 2003.
- Dey S, **Spring PM**, Arnold S, **Valentino J**, Chendil D, Regine WF, Mohiuddin M, Ahmed MM. Low-dose fractionated radiation potentiates the effects of Paclitaxel in wild-type and mutant p53 head and neck tumor cell lines. *Clin Cancer Res* 9(4):1557-65, 2003.
- Gonzalez HE, Gujrati M, Frederick M, Henderson Y, Arumugam J, **Spring PM**, Mitsudo K, Kim HW, Clayman GL. Identification of 9 genes differentially expressed in head and neck squamous cell carcinoma. *Arch Otolaryngol Head Neck Surg*. 129(7):754-9, 2003.

Urology

- Partin JV, Anglin IE, **Kyprianou N.** Quinazoline-based alpha 1-adrenoceptor antagonists induce prostate cancer cell apoptosis via TGF-beta signaling and I κ B alpha induction. *Br J Cancer* 88(10):1615-21, 2003.

Faculty Presentations

Cardiothoracic Surgery

Robert M. Mentzer Jr., MD

- Adenosine, Cardioprotection, and Its Clinical Application: Where Do We Go from Here? International Society of Heart Research XXV Annual Meeting, Mystic, CT. June 2003.
- Sodium Hydrogen Exchange Inhibition, Efficacy and Clinical Application, International Society of Heart Research XXV Annual Meeting, Mystic, CT. June 2003.

General Surgery

Alfred Cohen, MD

- TME Randomized Trials, Society of Surgical Oncology, Los Angeles, CA. March 2003.
 - Commission on Cancer and Markey Cancer Center Update, Cancer Liaison Physicians Meeting and KY American College of Surgeons, Lexington, KY. April 2003.
 - Quality Issues in Rectal Cancer, Visiting Professor - University of Louisville, Louisville, KY. July 2003.
 - Markey Update, Hematology Oncology Fellows Lecture, Lexington, KY. February 2003.
 - Surgical Issues in Colorectal Cancer, Progress Against Colorectal Cancer-Southeastern Wisconsin Cancer Conference, Milwaukee, WI. March 2003.
 - Clinical Research, American Society of Colorectal Surgeons, New Orleans, LA. June 2003.
- Surgical Issues in Colorectal Cancer, American Society of Clinical Oncology, Chicago, IL. May 2003.

Alejandro Gandsas, MD

- Laparoscopic Gastric Bypass for Morbid Obesity, University of Kentucky School of Nursing Grand Rounds, Lexington, KY. April 2003.

Michael J. Mastrangelo, MD

- New Paradigms in the Diagnosis and Treatment of Abdominal Pain, UK Annual Family Medicine Review, Lexington, KY. May 2003.
- Virtual and Augmented Reality Solutions for Minimally Invasive Surgery, Association of Geoscientists and Engineers: Visualization as a Tool to Improve Working Processes, Stavanger, Norway. June 2003.

Adrian Park, MD

- Laparoscopic repair of ventral hernia, Cornell University Grand Rounds Series, New York, NY. April 2003.
- Laparoscopic incisional hernia repair, Presented at the Resident Research Recognition Day, Fairview Hospital, Cleveland Clinic Foundation, Cleveland, OH. June 2003.

Thomas H. Schwarcz, MD

- Surveillance venous duplex is not clinically useful after total joint arthroplasty when effective DVT prophylaxis is employed, 28th Annual Spring Meeting of the Peripheral Vascular Surgical Society, Chicago, IL. June 2003.

Richard W. Schwartz, MD

- Performance improvement: a mandate for surgical educators, Association for Surgical Education and Association of Program Directors in Surgery, Vancouver, BC. May 2003.

Orthopaedic Surgery

Steven J. Lawrence, MD

- Evaluation and Treatment of Calcaneal Fractures, Orthopaedic Specialty Conference, Lexington, KY. May 2003.
- Evaluation and Diagnosis of Ankle Injuries, 5th Annual UK Sports Medicine Symposium, Lexington, KY. May 2003.
- Gait, Amputations, Prosthetics and Orthotic Devices, Maine Orthopaedic Review Course, Portland, ME. June 2003.

Scott D. Mair, MD

- Shoulder Physical Examination and Diagnosis of Injuries, 5th Annual UK Sports Medicine Symposium, Lexington, KY. May 2003.
- Sassmannshausen G, Johnson D, Mair S, Uhl T, Lowe W, Arthroscopic "Medial Drive-Through" sign: An indication for acute surgical repair of Grade III tibial avulsion of the medial meniscotibial ligament in collegiate athletes, AANA Annual Meeting, Phoenix, AZ. April 2003.

Scott Scutchfield, MD

- Symposia on Medical Liability Insurance Crisis (Leader), American Orthopedic Association Annual Meeting, Charleston, SC. June 2003.

William O. Shaffer, MD

- Spine Questions, Orthopaedic Spine Seminar, Lexington, KY. May 2003.
- Lumbopelvic Fixation in the Treatment of Complex Sacral Fractures, Surgical Grand Rounds, Lexington, KY. April 2003.

Faculty Presentations

Timothy Wilson, MD

- Sports Injuries: When to Refer, 34th Annual Family Medicine Review, Lexington, KY. February 2003.
- **Wilson T**, Holzhauer M, Uhl T, **Johnson D**, Femoral Rollback in a PCL Reconstructed Knee: An In-Vivo Study, AANA Annual Meeting, Phoenix, AZ. April 2003.
- **Wilson T**, Jacobs D, **Johnson D**, Knee Injury in an Adolescent Female Soccer Player, SEATA Annual Meeting, Atlanta, Ga. March 2003.
- Isbell W, **Wilson T**, Vyas A, Hardy P, **Johnson D**, Meniscal Kinematics Following Allograft Reconstruction: A Dynamic In-Vivo 3D MRI Analysis, AAOS Annual Meeting, New Orleans, LA. February 2003.

Otolaryngology

Paul Spring, MD

- **Spring PM**, Robinson J, Dziba J, Marcinek R, Ventkataraman G, **Jones RO**, Ain KB. Modulation of drug sensitivity in anaplastic thyroid cancer by inhibition of multidrug resistance proteins. AACR Washington, D.C. April 2003
- Dey S, **Spring PM**, Arnold S, Valentino J, Chendil D, Regine WF, Mohiuddin M, Ahmed MM, Low-dose fractionation the effect of paclitaxel in wild-type and mutant p53 head and neck tumor cell lines, KSO - Spring Meeting, Covington, KY. April 2003.
- Shajahan S, Dey S, Arnold S, Ahmed M, **Spring PM**. Effects of Radiation and chemotherapy on multidrug resistance gene expression in oral cavity cancer. AACR Washington, D.C. April 2003.
- Dey S, **Spring PM**, Dimova N, Inayat MS, Arnold S, Mohiuddin M, Ahmed MM. Low dose fractionated radiation chemopotentiates the effects of Taxotere in nude mice xenografts of SCCHN tumors. Radiation Research Society, 12th International congress of Radiation Research, Brisbane, Australia. August 2003.

Plastic Surgery

Christopher Marek, MD and Lee L.Q. Pu, MD

- Refinements of Free Tissue Transfer for Optimal Cosmetic result in Lower Extremity Reconstruction, 46th Annual Scientific Meeting, Southeastern Society of Plastic and Reconstructive Surgeons, Palm Beach, FL. June 2003.

Henry C. Vasconez, MD

- Plagiocephaly - The Dilemma of Aggressive or Conservative Treatment, The Jurkiewicz Society Scientific Meeting, Atlanta, GA. April 2003.
- Management of Pediatric Burns, Department of Pediatrics Grand Rounds, Lexington, KY. April 2003.

Transplantation Section

Dinesh Ranjan, MD

- Kidney and Pancreas Transplantation, Kidney and Pancreas Transplantation, Huntington, WV. April 2003.
- ERCP in the Management of Early vs. Late Biliary Leaks After Liver Transplantation, ICS, 38th North American Federation Congress, Montreal, Canada. July 2003.
- Liver Transplantation in Patients with Incidental vs. Known Hepatocellular Carcinoma, ICS, 38th North American Federation Congress, Montreal, Canada. July 2003.

Urology

William T. Conner, MD

- Erectile Dysfunction, Family Practice Review, Lexington, KY. May 2003.
- Benign Prostatic Hyperplasia, Family Practice Review, Lexington, KY. May 2003.
- Prostate Cancer, Family Practice Review, Lexington, KY. May 2003.

Natasha Kyprianou, PhD

- Induction of apoptosis by quinazoline-based adrenoceptor antagonists: mechanistic insight and clinical implications in prostatic disease, Ohio State University Visiting Professor, Columbus, OH. May 2003.
- Cross-talk of TGF-beta and androgen signaling pathways in prostate cancer, Gordon Research Conference on Hormonal Carcinogenesis, Meriden, NH. July 2003.

Randall G. Rowland, MD

- Testicular Tumors, American Urological Association Annual Review Course, Chicago, IL. June 2003.
- History and Current Status of Continent Diversion, University of Louisville Department of Surgery, Louisville, KY. April 2003.
- Surgery for Testis Cancer, University of Louisville Department of Surgery, Louisville, KY. April 2003.
- Surgery for Localized Prostate Cancer, Ohio River Valley Chapter of the American Association of Physicists in Medicine Spring Symposium, Lexington, KY. April 2003.

September-October Grand Rounds

MN 363; 6:45-7:45, unless otherwise indicated

Sept 17	Daniel E. Kenady, M.D. Professor of Surgery Section of Surgical Oncology	Soft tissue Sarcoma Diagnosis and Treatment
Sept 24	Eugene A. Hessel II, M.D., F.A.C.S. Professor of Anesthesiology and Surgery (Cardiothoracic) Department of Anesthesiology	Abdominal Organ Injury Following Cardiac Surgery
Oct 1	David J. Minion, M.D. Assistant Professor of Surgery Section of Surgical Oncology	Rest In Peace: Diagnostic Angiography (1919-2003)
Oct 8	David A. Sloan, M.D. Associate Professor of Surgery Section of Surgical Oncology Michael L. Cibull, M.D. Professor of Pathology, Director, Division of Surgical Pathology	The Pathologist's Role in the Assessment of Cancer
Oct 15	Stephen F. Strup, M.D. Associate Professor of Surgery Director of Minimally Invasive Urologic Surgery, Division of Urology	Laparoscopy in Urology: Fad or Future?
Oct 29	Phillip Chang, M.D. Chief Administrative Resident Division of General Surgery	The Quest for Artificial Blood