

## First Robotic Esophagectomy Performed at UK

Just a little over a year after the first robotic surgery was performed in the UK Department of Surgery, surgeons have set another precedent with the first ever robotic esophagectomy performed at UK.

Timothy Mullett, M.D. of the Cardiothoracic Division and Raymond Gagliardi, M.D. of General Surgery performed the procedure in April, 2005.

Using the minimally invasive approach for an esophagectomy has several advantages over the “blunt” esophagectomy or even a laparoscopic approach, according to Mullett.

“Open procedures limit visualization and the direct ability to see lymph nodes,” Mullett said.

Access to the mediastinum and lymph system is important when the patient has Barrett’s disease and potentially cancer.

Many can’t tolerate the open procedure which consists of incisions in the left neck and abdomen.

“The intention [to use MIS] is to decrease pain and increase mobility after the



Dr. Mullett begins esophagectomy using the da Vinci robot.

operation and still achieve the same results as a lap or an open procedure,” Mullett said, adding that the post-operative recovery period for an open procedure is, on average, ten days compared to only four days for the robotic procedure.

Mullett characterized Dr. Gagliardi’s experience performing MIS procedures instrumental to the success of the

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“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.*

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

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## UK Transplant Center Named Network Participant

The University of Kentucky Transplant Center was recently notified that its lung transplantation program received approval for participation in the United Resource Networks (URN).

The URN employs a process of credentialing, contracting, and consulting to build and maintain a nationally recognized transplant network.

Programs are evaluated on the basis of patient survival rates, accreditations, and staff performance through the completion of program-specific surveys.

Programs demonstrating clinical

excellence in transplantation are approved for participation in the transplant network.

According to Dr. Robert M. Mentzer, Jr., the UK Transplant Center Director, “this exemplifies the Center’s strong commitment to provide access to excellence in transplantation care.”

The United Health Group subsidiary has approximately 180 transplant programs in more than 70 medical centers in the U.S.

In addition, UK’s Chandler Medical Center is already participating in the network for kidney, kidney/pancreas, and liver transplantation.

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esophagectomy. Dr. Mullett had recently witnessed and participated in robotic esophagectomies with Dr. Santiago Horgan, director of minimally invasive surgery at the University of Illinois-Chicago.

This most recent precedent-setting procedure comes as UK's Center for Minimally Invasive Surgery is in the state spotlight following a series of articles in the April 7, 2005 edition of the Louisville *Courier-Journal*.

In one article, UK heart patient Sharon Ramsey recounts her quick recovery from heart bypass surgery.

Ramsey told the *Courier-Journal* she was back at home in only a week after surgery and was back at work in three weeks.

"In her case, I did not have to open her sternum," UK's Chand Ramaiah, M.D. told the paper. "She just needed one bypass, so what I did was detach this mammary artery with the robot. It took less time than it would have taken to divide the breastbone and perform the operation, and she did great."

## SCRIPT and CT Division Top Enroller in Clinical Trial

Among 65 sites in the U.S., the Surgery Clinical Research Investigator Protocol Team (SCRIPT) and the UK CT Division enrolled the most patients in NAPA, a Phase II clinical trial to evaluate the efficacy of the drug nesiritide (a B-type natriuretic peptide) on kidney function after cardiac surgery.

The agent is already approved for the treatment of patients with shortness of breath at rest and acute decompensated heart failure.

According to Dr. Robert M. Mentzer, Jr., M.D., PI of the UK site, the purpose of the study is to demonstrate the impact of nesiritide on postoperative kidney function and blood pressure for patients undergoing open heart surgery requiring cardiopulmonary bypass.

Originally, SCRIPT contracted to enroll 10 patients. However, the SCRIPT program and the UK CT Division research team managed to enroll 28 patients or nearly 10% of the enrollment of the entire study. Dr. Mentzer attributes this success to the SCRIPT program and commitment of the CT study manager Connie Dampier and the study coordinators Tina Sledge and Fran Stone.

Linda Rice, the Director of SCRIPT agrees, "The SCRIPT team is experienced, highly motivated, and specialized in conducting clinical trials, particularly with respect to regulatory and financial issues. Everyone works together as a team. It is a remarkable accomplishment to be able to enroll nearly 3 times the number of patients initially agreed upon in the contract."

The co-investigators are Drs. Ramaiah, Camp, Ferraris, and Mullet. Anyone interested in conducting a clinical trial utilizing SCRIPT services, please call 257-6462 or email mbart00@email.uky.edu, and you will be directed to the appropriate person.

## Plastic Surgery Division Hosts Annual Andrew M. Moore Lecture

Distinguished surgeon and educator Robert M. Goldwyn, M.D. delivered a lecture entitled, "Medical-Surgical Beliefs Once Cherished, Now Discarded," as Visiting Professor in the Plastic Surgery division.

Dr. Goldwyn attended Harvard College and Harvard Medical School.

He did his internship and residency in general surgery at the Peter Bent Brigham Hospital in Boston from 1956 to 1961, where he was the Harvey Gushing Fellow in Surgery at the Peter Bent Brigham Hospital and Dr. Albert Schweitzer's surgeon in Gabon.

Plastic surgery residents found Dr. Goldwyn's friendly, outgoing personality belied his many achievements.

"Despite his accomplishments he maintains a wonderfully gracious attitude and a pleasant sense of humor," said plastic surgery resident Robert Ferguson, M.D.

"When cases were presented, each of his comments were insightful into the pathology, the chosen surgical technique, and the ecumenical approach to the patient's medical problem. I think all of us thoroughly enjoyed his visit."

Dr. Goldwyn's plastic surgical training was at the University of Pittsburgh Medical Center from 1961 to 1963. He returned to Harvard Medical School, became Director of the Industrial Accident Clinic at the Peter Bent Brigham Hospital, then Senior Surgeon at the Peter Bent Brigham Hospital and at the Beth Israel Hospital, where he was Chief of the Division of Plastic Surgery from 1972 - 1996.

In 1980, he was appointed Clinical Professor of Surgery at Harvard Medical School. He was Assistant Chief Editor of *the Archives of Plastic Surgery* from 1970 to 1977 and from 1979 to 2004, he was Editor of *Plastic and Reconstructive Surgery*.



Robert M. Goldwyn, M.D.

He has authored or co-authored more than 350 articles, more than 50 chapters, and has edited many books.

Dr. Goldwyn was among the first to perform experimental microsurgical transfer flaps and limb transplantation. Early in his career, he investigated the use of cryotherapy in the treatment of

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# First Annual AO Seminar and Visiting Professorship Held

The First Annual Association of Otolaryngologists Visiting Professorship and Seminar was held March 18-19, 2005 in the Charles Wethington facility, Chandler Medical Center, under the direction of co-chairmen Richard A. Pollock, M.D., Division of Plastic Surgery and Joseph van Sickels, D.D.S., Division of Oral and Maxillofacial Surgery.

Dr. Warren Schubert was the featured AO Visiting Professor. Dr. Schubert is an Associate Professor, Division of Plastic Surgery, Department of Surgery, University of Minnesota, a member of the AO Board of Trustees, and Chairman of Plastic and Hand Surgery at Regions Hospital, St. Paul Minnesota. Dr. Schubert completed a Cranio-Maxillo-Facial Fellowship in the late 1980's, with Dr. Pollock, when they were in Atlanta. Schubert also worked with Richard H. Haug, D.D.S. when the two were at Case Western University, in Cleveland, Ohio.

Schubert is recognized for his clinical research, for expertise in cranio-maxillo-facial trauma, and for medical missions in Guatemala.

Dr. Schubert was joined at the AO Professorship and Seminar by faculty and residents from Oral and Maxillofacial Surgery, Otolaryngology, and Plastic Surgery at the University of Kentucky and the University of Louisville.

The focus of the Seminar was current principles and management of cranio-maxillo-facial trauma, as offered by Doctor Schubert and University of Louisville and University of Kentucky faculty.

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## 3<sup>rd</sup> Annual Vascular Disease Seminar/"Tubby" Smith Benefit

The 3<sup>rd</sup> Annual Vascular Disease Seminar met Friday, February 18th at the Marriott Griffin Gate in Lexington. The Seminar included updates on Venous Disease and Cardiovascular Risk Management with an emphasis on Hypertension in Women and Femoral Popliteal Disease. Attendees also received a special invitation to attend a UK men's basketball practice and tour the Wildcats' practice facilities.

The moderator for the lecture series was Donald Patterson, M.D. Eric Edean, M.D., head of the General Surgery Division in the Department of Surgery spoke on "Innovations in Femoral Popliteal Disease"; Thomas Whyne, M.D., from the Division of Cardiovascular Medicine lectured on "Cardiovascular Risk Management with an Emphasis on Hypertension in Women"; and David Minion, M.D., director of the Vascular Surgery Program, spoke on "Venous Disease."

The Seminar was held to support the Orlando "Tubby" Smith Foundation. The foundation's goal is to assist underprivileged children in this region of the country through charitable donations. To date, the Foundation, with the help of its many supporters and volunteers, has distributed \$1.8 million to children's charities. Among the charities that have benefited from the Orlando "Tubby" Smith foundation are the American Heart Association, American Red Cross, Cardinal Hill Hospital, Mended Heart, Kidney Foundation of KY, Dream Factory, and many more.

The seminar program was designed to help participants to:

- Utilize appropriate studies for the diagnosis of venous disease,
- Summarize the roles of medical and surgical management in a multidisciplinary approach for patients with venous or cardiovascular disease,
- Choose when to refer patients with venous or cardiovascular disease for surgical consultation,
- Examine the latest concepts in the treatment of cardiovascular management,
- Summarize the diagnoses/management of hypertension in women, and
- Identify the latest innovation in femoral popliteal disease.

## Francis Massie Award



**Joshua Owens**, a 4th-year graduating medical student, was presented with the Francis Massie award on Saturday, May 14, 2005.

The Francis Massie award is given to the most outstanding student in Surgery each year. Owens was presented with a plaque, a check for \$100.00, and choice of a medical text from the Medical Bookstore valued at \$100.00.

Comments on Owens included: "He is an asset to UK's medical community." "He is one of the best medical student we have had in the last four years." "He will make a great orthopaedic resident."

"Hard worker, reliable, knowledgeable, and accountable." "Motivated and hard working student. Stands out as perhaps one of the best 4<sup>th</sup>-year student on the service this year." Owens will join the Department of Orthopaedic Surgery as a resident in the fall.

The award is named for Dr. Francis Massie, who served as President of the Fayette County Medical Society. He was one of the founding members of the Southern Society of Clinical Surgeons, first Secretary and later President of the Kentucky Surgical Association.

Dr. Massie was also the catalyst who first brought the idea of a University of Kentucky Medical School to Governor Albert Chandler.

# Surgery Department Welcomes Visiting Professor Dr. L.D. Britt



From left to Right: Stephanie Dunkle-Blatter, M.D., David West, M.D., L.D. Britt, M.D., Carol Spears, M.D., Matthew Shane, M.D., and Anthony Bottiggi, M.D.

Visiting Professor L. D. Britt, M.D. spoke on "Trauma and Critical Care Management 2005: What Is Evidence-Based and What Is Not?" March 2, as part of the Department's Grand Rounds Series.

Dr. L.D. Britt, a native of Suffolk, Virginia received a B.A. degree (With Distinction)

from the University of Virginia and was a member of the coveted Raven Society. A graduate of Harvard Medical School and Harvard School of Public Health, Dr. Britt has had extensive surgical and critical care training. Dr. Britt, Brickhouse Professor and Chairman of the Department of Surgery at Eastern Virginia Medical School, is the first African-American in the country to have an endowed chair in surgery.

"It was truly an honor to host Dr. Britt at University of Kentucky this spring," said Surgery Resident Shaun McKenzie, M.D. "His passion for surgical training was exemplified not only by his addresses to the department of surgery, but also by his enthusiastic interaction with residents and students at all levels. Dr. Britt reminded us of why we continue to enjoy this field despite its ever growing constraints."

Dr. Britt is a reviewer for the *New England Journal of Medicine* and serves



L.D. Britt, M.D.

on numerous editorial boards, including the *Annals of Surgery*, *Journal of the American College of Surgeons*, the *American Journal of Surgery*, *Shock*, the *Journal of Trauma*, *Current Surgery*, and others.

*Goldwyn, continued from page 2*

vascular tumors, of palliation of unresectable recurrent breast cancers of the chest wall. He developed new techniques for reduction mammoplasty, a major focus of his clinical activity.

Dr. Goldwyn was President of the Harvard Medical Alumni Association, the Massachusetts Society of Plastic Surgeons, the New England Society of Plastic Surgery, and the American Association of Plastic Surgeons, where he was named Clinician of the Year, Distinguished Fellow, and recipient of the Honorary Award.

In 1972 he founded the National Archives of Plastic Surgery, housed at Harvard Medical School and has since served as Chairman of the Archives Committee of the Plastic Surgery Educational Foundation.

He was a founding member of Physicians for Social Responsibility and has written numerous articles on world peace, opposition to chemical and biological warfare, medical ethics, and medical history.

Awards include the Dieffenbach Medal, the Honorary Kazanjian Lectureship, the Special Achievement Award, and the Presidential Citation of the American Society of Plastic and Reconstructive Surgeons.

## Dr. Zhao Presents May Colloquium on Inner Ear and Hearing Loss

Hong-Bo Zhao, Ph.D. of the Otolaryngology Division lectured May 18, 2005 on "The Genomic Function of Inner Ear Gap Junctions."

Gap junction gene mutation can induce a high incidence of non-syndromic hearing loss. The pathological genomics is mainly located in the cochlea.

A gap junctional channel within the cochlea is composed of two hemichannels that connect two adjacent cells allowing direct exchange of ions and small molecules.

Multiple fluorescent probes were used to assess connexin channel permeability in the cochlea.

Hemichannels and gap junctions in the cochlear supporting cells demonstrated significant charge selectivity in permeability, revealing that permeability to negatively charged molecules was associated with Cx26 expression in supporting cells in the organ of Corti.

Zhao's research concludes that connexin26 (Cx26) and Cx30, which are the predominant connexin isoforms in the cochlea Cx26 mutation, may induce specific, irreparable impairment in intercellular signalling and energy and nutrient supplies in the cochlea, causing cell degeneration and hearing loss.

The 2005 Department of Surgery Research Colloquium Series is sponsored by the Department of Surgery Research Office (see page 5).

# Davenport Shares NSQIP Findings at American Surgical Association Convention

Dan Davenport, Director of the Surgery Department's Office of Decision and Support revealed findings from his study entitled, "Preoperative Risk Factors and Surgical Complexity Are More Predictive Of Costs Than Postoperative Complications: A Case Study Using the National Surgical Quality Improvement Program (NSQIP) Database" at the 125<sup>th</sup> Annual Meeting of the American Surgical Association (ASA) in Palm Beach, Florida in April.

Davenport, along with Department Chair Robert Mentzer, Jr., M.D., used NSQIP data "to test the hypothesis that preoperative risk factors and surgical complexity predict more variation in hospital costs than complications."

While post-operative complications are known to affect hospital costs, the effects of preoperative risk factors and the complexity of the procedure on costs have not been as rigorously studied.

NSQIP preoperative risk factors, surgical complexity, outcomes, and hospital costs were analyzed for a random sample of 5,875 UK patients on six surgical services.

Davenport and Mentzer concluded that "preoperative risk factors and surgical complexity are more effective predictors of hospital costs than complications. Preoperative intervention to reduce risk could lead to significant cost savings. Payers and regulatory agencies should risk-adjust hospital cost assessments using clinical information that integrates costs, preoperative risk, complexity of operation, and outcomes."

Davenport says that further investigation is called for. "The major finding of this paper was that preoperative risk factors, regardless of whether or not a complication occurs, correlate very strongly with hospital costs," Davenport said. "So the next step from here is 'can we manage the preoperative risk of the patient before their hospital admission such that it reduces the complications related to that particular risk factor as well as the patient's hospital cost related to that particular risk factor?'"

The NSQIP study was borne out of congressional oversight of Veterans Affairs (VA) hospitals in 1989, which were perceived to have a higher operative mortality rate than hospitals in the public sector. NSQIP was designed to give the VA a baseline of public sector data for comparison to VA hospitals.

The pilot study included data from three hospitals: Emory University, the University of Michigan, and the University of Kentucky.

The American College of Surgeons claims that due to NSQIP findings between 1991 – 2001, VA hospitals showed a 27% decline in post-operative mortality, a 45% drop in post-operative morbidity, median post-operative length of stay fell from 9 to 4 days, and patient satisfaction improved.

Davenport's findings have been accepted for publication by the *Annals of Surgery*. Part of the data collection for this study was funded under a grant from the Agency for Healthcare Research and Quality through the American College of Surgeons under the direction of NSQIP. The data collection was performed by nurse coordinators Mary Beth Rice and Devauna Riley.

## 2005 Department of Surgery Research Colloquia Schedule

The Research Colloquia are held in MN136, in the Dean's Conference Room. Each colloquium is scheduled from 8:30 to 9:30 a.m. Breakfast will be provided.

### **JANUARY 19**

Dr. David Pienkowski  
Department of Orthopaedic Surgery  
Associate Professor  
*Multiwalled Carbon Nanotubes and  
Orthopaedic Prosthesis*

### **MAY 18**

Dr. Hong-Bo Zhao  
Division of Otolaryngology/Surgery  
Assistant Professor  
*The Genomic Function of Inner Ear Gap  
Junctions*

### **SEPTEMBER 21**

Dr. Deborah Erickson  
Division of Urology/Surgery  
Professor  
*Advances in Research on Interstitial  
Cystitis*

### **MARCH 16**

Dr. Charlotte Kaetzel  
Department of Microbiology and  
Immunology Professor  
*Regulation of IgA transport and  
Intestinal Inflammation by Toll-like  
Receptor Signaling*

### **JULY 20**

Kyprianou Lab  
Dr. Shaun McKenzie/Jason Garrison  
Division of Urology/Surgery  
*TBA*

### **NOVEMBER 16**

Dr. Lee Pu  
Division of Plastic Surgery  
Assistant Professor  
*Cryopreservation of Adipose Tissues*

## New Staff



### Fabian to Speak at June Grand Rounds

Timothy C. Fabian, M.D., F.A.C.S., Harwell Wilson Alumni Professor & Chairman of the Department of Surgery University of Tennessee Health Science Center, Memphis will speak on “Compartment Syndrome - From Head to Toe,” June 10 as part of Grand Rounds.

Dr. Fabian helped develop one of the largest volume trauma centers in the United States, The Presley Memorial Trauma Center at Memphis. He has served as Vice Chairman of the Board of Governors of the American College of Surgeons, President of Eastern Association for the Surgery of Trauma, and on the Board of Managers for the American Association for the Surgery of Trauma.



*Jocelyn DeCastro-Hall  
Administrative Support  
Division of Urology*



*Marla Carter  
Administrative Support  
Department of Surgery*



*Ericka Woolfolk  
Administrative Support  
Division of Neurosurgery*



*Elisabeth Watkins  
Administrative Support  
Transplant Division*

## May Grand Rounds

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

<b>May 4</b>	Alfred M. Cohen, MD, FACS, FASCRS Professor of Surgery Division of General Surgery; Director and CEO Lucille P. Markey Cancer Center	Combined Modality Therapy for Cancer
<b>May 11</b>	Phillip C. Camp, MD Assistant Professor Cardiothoracic Surgery	Update on Lung Transplantation
<b>May 18</b>	Richard W. Schwartz, MD, FACS Professor of Surgery Division of General Surgery	Ignorance Is Not Bliss: A Practical Solution to ACGME Competency #6
<b>May 25</b>	Robert M. Mentzer, Jr., MD, FACS Frank C. Spencer Professor and Chairman Department of Surgery Director, UK Transplant Center	Clinical Trials in Heart Surgery: An Archetype of Challenges Facing the Clinician-Scientist

## Awards and Honors

### Urology Division Lists Awards

- **Randall Rowland, Ph.D., M.D.** was named a Fellow in the International Society of Urological Pathology.
- **Deborah Erickson, M.D.** received the "Outstanding Young Physician Award" from the University of Missouri Medical Alumni Organization in April 2005.
- **Natasha Kyprianou, Ph.D.** was recently appointed an Associate Editor of the prestigious journal *Cancer Research*, "the most cited cancer journal in the world."
- **Beibei Zhu, Ph.D.**, a Post-doctoral Fellow in the Department of Surgery, Division of Urology received the American Foundation for Urologic Disease/American Urological Association Education and Research Grant for his project: "Proteomic Analysis of TGF-beta Signaling Effectors in Human Prostate Cancer Cell Anoikis" with **Natasha Kyprianou, Ph.D.** as the Preceptor.

### UK Surgeons Named to 2004 *Best Surgeons* List

Several members of the Department of Surgery faculty were named to the 2004 *Best Doctors*® list.

#### Neurosurgery

- Thomas Pittman, M.D.
- Roy A. Patchell, M.D.
- Phillip Tibbs, M.D.
- Byron Young, M.D.

#### Otolaryngology

- Sanford M. Archer, M.D.
- Richard C. Haydon, III, M.D.
- Raleigh O. Jones, M.D.
- Joseph Valentino, M.D.

#### Plastic Surgery

- Henry C. Vasconez, M.D.

#### General Surgery

- Paul A. Kearney, M.D.
- Alfred M. Cohen, M.D.
- Patrick C. McGrath, M.D.
- David A. Sloan, M.D.

#### Thoracic Surgery

- Robert M. Mentzer, Jr., M.D.

#### Urology

- Bruce Lucas, M.D.
- Randall G. Rowland, M.D., Ph.D.

## News and Notes

### Cryopreservation of Fat Cells Gaining Attention

A technique to preserve adipose tissue from liposuction may yield stem cells in addition to its potential use in fat injections.

Lee L. Q. Pu, M.D., Ph.D., of the Division of Plastic Surgery told the *Cosmetic Surgery Times* in February that "you probably should preserve the fatty tissues first."

"If patients need that tissue for future injection, then it is available for future transplantation.

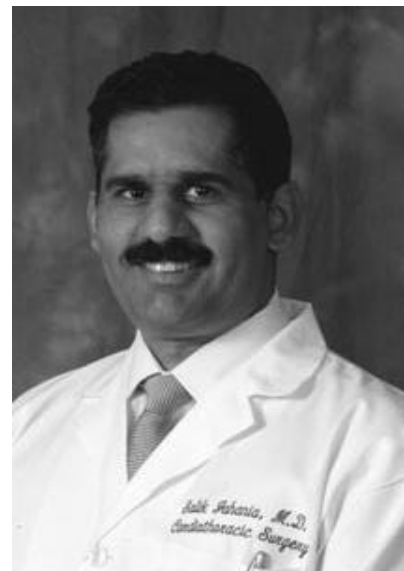
Or, if in the future, patients would need stem cells, you could process the tissues later to get them." Next Dr. Pu's team must show that these cells are as viable as other stem cells and can produce other kinds of tissues.

### Symposium Focused on Small Cell Lung Cancer

The Markey Cancer Center's Fourth Annual Lung Cancer Symposium "Evolving Strategies in Lung Cancer Diagnosis and Treatment," was held in April.

The objectives of the two-day symposium were to review the current status of adjuvant therapy in the treatment of non-small cell lung cancer; discuss innovative radiation oncology treatments for non-small cell lung cancer; describe techniques for symptom management and palliative care in all stages of non-small cell lung cancer; identify state-of-the-art biologic therapies for non-small cell lung cancer; and discuss the role of complete resection and adequate node sampling and resection.

## Resident of the Month March



**M. Salik Jahania, M.D.** was selected as the resident of the month for March 2005 by the College of Medicine Education Office.

Dr. Jahania was nominated by a number of individuals at UK, who noted the following (amongst other things):

"Dr. Jahania is consistently approachable, patient-oriented, compassionate, and multi-disciplinary minded which alone sets him apart from his colleagues."

"Explains and educates staff whenever possible. "Helpful to new interns and residents on the services." "Shows respect to everyone."

He is "a good role model for nurse/physician communication..."

"He speaks to families and patients on a level in which they understand." "He creates an atmosphere on his service that allows all disciplines to contribute to the care of the patient." "I am proud to be a member of his team."

Dr. Jahania will receive a certificate, credit at the UK Medical Bookstore, a monetary award, and a parking space for a month in the VA parking garage. Congratulations, Dr. Jahania!

# New Resident Matches for UK Department of Surgery Named

The Department of Surgery's new interns have been announced for the 2005-2006 school year.

## GENERAL SURGERY UNIVERSITY

William Cavatassi	West Virginia
Priya Gaiha	Northwestern
Joseph Hansler	Nebraska
Patrick McHugh	Louisville
Ana Ruzic	Kentucky
Jeffrey Cole	Alabama
Gentian Kristo	Carol Davila, Romania
Abha Ojha	Sardar Patel Medical College, India
Robert Royalty	Kentucky

<b>NEUROSURGERY</b>	<b>UNIVERSITY</b>
Eric Goebel	Indiana
Joel Norman	East Tennessee

<b>OTOLARYNGOLOGY</b>	
William Helton	Louisville
Michele Streeter	Colorado

<b>PLASTIC SURGERY</b>	
Patrick Wilson	Alabama

<b>UROLOGY</b>	
Jason Bylund	Kentucky
John-Paul Newport	Tennessee

# Thornton Wins Paper Award

Chief Resident in Plastic Surgery, **Brian P. Thornton, M.D.** just returned from the 2005 Plastic Surgery Senior Residents Conference, which was held in Houston TX March 17-19, 2005 where he won the Best Microsurgery Paper Award.

Dr. Thornton will receive a cash prize in the amount of \$500 and an award plaque.

In addition, Dr. Thornton's award will be included in an upcoming issue of *Plastic Surgery News*.

## External Project Grants Awarded

**Deborah Erickson, M.D.** has been awarded \$97,449 by the National Institute of Health/National Institute for Diabetes for her project "Urine and bladder markers of interstitial cystitis."

**Paul Kearney, M.D.** has been awarded by Glaxo SmithKline \$17,166 per patient enrolled for his project "EMD20001: A prospective, randomized, placebo-controlled, dose ranging multi-center study of the safety and efficacy of 3-days continuous intravenous infusion of GR270773 in the treatment of suspected confirmed gram-negative severe sepsis in adults."

**Paul Kearney, M.D.** has been awarded by Johnson and Johnson \$11,846 per patient enrolled for his study entitled "A randomized double-blind, placebo-controlled study to determine the efficacy and safety of Epoetin Alfa in critically ill subjects."

**Natasha Kyprianou, Ph.D.** and **Beibei Zhu, Ph.D.** have been awarded \$60,000 by the American Foundation for Urologic Disease/American Urological Association Education and Research for "Proteomic analysis of the TGF-Beta signaling in human prostate cancer cells."

**Nicholas Lopez, M.D.** has been awarded \$1,225 by the Southern Medical Association for his project "Red blood cells arginase and immunosuppression."

**Timothy Mullett, M.D.** has been awarded by Enzon Pharmaceuticals, Inc. \$12,283 per patient enrolled for his project "Protocol EZ-2053-001: a double-blind, placebo-controlled, multi-center, dose-ranging study of an anti-T-lymphocyte immune globulin (EZ-2053) in the prophylaxis of acute pulmonary allograft rejection in adult recipients of primary pulmonary allograft(s)."

**Michal Toborek, Ph.D.** has been awarded \$44,558 by the National Institute of Health/National Institute of Neurological Disorders & Stroke for his project "Use of natural antioxidants to overcome efflux systems of brain endothelial cells and improve HAART efficacy in the CNS."

**David Yurek, Ph.D.** has been awarded \$1,623,619 by the National Institute of Health/National Institute of Neurological Disorders & Stroke for his project "Stem cell adaptability in Parkinson's disease."

## Faculty Presentations

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### Department

**Margaret Plymale, R.N., Michael Donnelly, Ph.D., Andrew Pulito, M. D., and Robert M. Mentzer, Jr., M. D.**

- Enhancing feedback to surgery clerkship students. SEGA/SGSA 2005 Annual meeting, April 8, 2005, Winston Salem, NC.

**Daniel Davenport, M.B.A. and Robert M. Mentzer, Jr., M.D.**

- Preoperative risk factors and surgical complexity are more predictive of costs than postoperative complications: A case study using the National Surgical Quality Improvement Program (NSQIP) database. 124<sup>th</sup> Annual Meeting of the American Surgical Association, Palm Beach, Fl., April 14-16, 2005.

### Cardiothoracic Surgery

**Phillip C. Camp Jr., M.D.**

- New concepts in managing pulmonary hypertension - is Viagra the answer? ICA Annual World Congress, Lexington, Ky., July, 2004.

**Cherry Ballard-Croft, Ph.D., BJ Keith, Easton A. Reid, Ph.D., and Robert D. Lasley, Ph.D.**

- Adenosine A1 receptor agonists and H<sub>2</sub>O<sub>2</sub> differentially modulate p38 MAPK and ERK in discrete subcellular compartments. Experimental Biology Meeting, San Diego, Ca., April 2-6, 2005.

**Robert M. Mentzer, Jr., M.D.**

- Emerging technologies and the surgical management of patients with heart failure. The Heart Failure Colloquium, London, Ontario, May 4-7, 2005.
- Why randomized clinical trials evaluating pharmacological myocardial protection strategies have been unsuccessful. 4th Hatter Institute International Workshop on Cardioprotection, Livingstone, Zambia, April, 2005.

**Easton A. Reid, Ph.D., BJ Keith, Cherry Ballard-Croft, Ph.D., and Robert D. Lasley, Ph.D.**

- Selective MAPK activation in cardiomyocyte membrane compartments. Experimental Biology Meeting, San Diego, Ca., April 2-6, 2005.

### Neurosurgery

**Roy Patchell M.D.**

- New developments in the treatment of spinal cord compression caused by metastatic cancer. Department of Radiation Medicine, Yale University Medical Center, New Haven, Ct., February 22, 2005.
- Brain metastases. Toronto Sunnybrook Regional Cancer Centre, Toronto, Canada, March 17, 2005.
- Metastatic epidural spinal cord compression. University of Toronto Cancer Centre Oncology Continuing Education Rounds, Toronto, Canada, March 18, 2005.
- The management of brain metastases. 57th Annual Meeting of the American Academy of Neurology, Miami, Fl., April 11, 2005.

### Otolaryngology

**H. B. Zhao, Ph.D.**

- Bio-piezoelectricity in the mammalian outer hair cells for active cochlear mechanics. Proceedings of the 17th Bioengineering Conference in Nagoya, Japan, January 22, 2005.
- What is the function of connexin26 in the cochlea? Potassium recycling or intercellular signaling and nutrient/energy supplies? The 5th International Symposium in Meniere's Disease & Inner Ear Homeostasis Disorders, House Ear Institute & House Clinic, Los Angeles, Ca., April 2-5, 2005.
- Non-uniform cellular expression and distribution of Connexin 26 and 30 in the cochlear sensory epithelium. The 49th Annual Meeting of the Biophysical Society, Long Beach, Ca., Feb. 12-16, 2005.
- ATP connexin hemichannel release in the cochlea. The 28th Assoc. Res. Otolaryngol. Annual Meeting, New Orleans, La., Feb. 19-24, 2005.

**N. Yu, and H. B. Zhao, Ph.D.**

- Extracellular ATP mediates outer hair cell electromotility. The 28th Association of Res. Otolaryngology Annual Meeting. New Orleans, La. Feb. 19-24, 2005.

## Faculty Presentations (continued)

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### **N. Ji and H. B. Zhao, Ph.D.**

- Expressions of ATP-gated purinergic (P2) receptors in the cochlear outer hair cells. The 28th Association of Res. Otolaryngologists Annual Meeting. New Orleans, La., Feb. 19-24, 2005.

### **P. Wilson and H. B. Zhao, Ph.D.**

- Expression of p27Kip1 and hair cell differentiation in adult mouse cochlear progenitor cell culture. The 28th Association of Res. Otolaryngologists Annual Meeting. New Orleans, La., Feb. 19-24, 2005.

### **Pediatric**

#### **Joseph Iocono, M.D.**

- The use of a low fidelity model to teach laparoscopic pyloromyotomy. Association for Surgery Education National Meeting. New York, NY., March 2005.

### **Plastic Surgery**

#### **Lee L. Q. Pu, M.D.**

- Soft tissue reconstruction of the lower extremity with refinements and innovative ideas. Loma Linda University, Loma Linda, Ca. March 23, 2005.

#### **Daniel Stewart, M.D. and Henry C. Vasconez, M.D.**

- Selective arterial or venous augmentation of the TRAM flap using the inferior epigastric vena comitantes as Vein graft. Annual Scientific Meeting of the American Society for Reconstructive Microsurgery, Fajardo, Puerto Rico, January 2005.

### **Transplant**

#### **Robert M. Mentzer, Jr., M.D.**

- Factors associated with graft failure and outcome in 354 adult living donor liver transplants (ALDLT): a report from the A2ALL Consortium. 124<sup>th</sup> Annual Meeting of the American Surgical Association, Palm Beach, Fl., April 14-16, 2005.

#### **Thomas Johnston, M.D. and Dinesh Ranjan, M.D.**

- Curcumin has potent liver preservation properties in an isolated perfusion rat liver model. Eleventh Annual International Liver Transplantation Society Congress, Los Angeles, Ca., July 22, 2005.

### **Urology**

#### **Deborah Erickson, M.D.**

- Treatments for interstitial cystitis: Past, present, future. Society for Urodynamics and Female Urology Orlando, Fl., February 24, 2005.
- NIDDK Interstitial Cystitis Case Definition Panel. Expert Panel Meeting, Santa Monica, Ca., April 28 & 29, 2005.
- Permeability of interstitial cystitis bladders to rhamnose and fluorescein. National Bladder Foundation's International Bladder Symposium, Linthicum, Md., April 15-16, 2005.

#### **Natasha Kyprianou, Ph. D.**

- TGF-beta signaling pathways in prostate tumorigenesis. Department of Urology Urologic Diseases Research Center Children's Hospital, Harvard Medical School Boston, Ma., March 7-8, 2005.
- Cross-talk between TGF-beta signaling and androgen axis in prostate cancer. Department of Urology Cell Biology and Cancer Center, University of Minnesota, Minneapolis, Mn., April 12, 2005.
- Targeting prostate tumor vasculature with quinazoline-based adrenoceptor antagonists: a myth or a clinical reality? Department of Urology, University of Vienna, Vienna, Austria, April 14-17, 2005.
- Pharmacological exploitation of doxazosin and quinazoline-based analogues for apoptosis-based therapy of prostate cancer. Department of Pharmacology, University College London, England, April 18-20, 2005.

#### **Chad Lagrange, M.D., Jenne Garrett, M.D., and Stephen Strup, M.D.**

- An inexpensive laparoscopic rethovesical anastomosis trainer that mimics the confines of the true male pelvis. Southeastern Section of the American Urological Association (AUA), Charleston, SC., March, 2005.
- Use of a Lowsley tractor during laparoscopic prostatectomy to reduce urethrovesical anastomotic tension. Southeastern Section of the AUA, Charleston, SC., March 2005.
- McGregor A, Garrett JE, Strup SE. Comparison of laparoscopic, perineal, and retropubic prostatectomy at a veteran's hospital: a resident operative experience. Southeastern Section of the AUA, Charleston, SC., March 2005.

## Faculty Publications

### Cardiothoracic Surgery

- Ballard-Croft C**, et al. Burn trauma alters calcium transporter expression in the heart. *J Appl Physiol* 97: 1470-1476, 2004.
- Ballard-Croft C**, Kristo G, Yoshimura Y, **Reid EA**, Keith BJ, **Mentzer RM Jr**, **Lasley RD**. Acute adenosine preconditioning is mediated by p38 MAPK activation in discrete subcellular compartments. *Am J Physiol* 288: H1359-H1366, 2005.
- Bernard AC**, Winstead PS, **Mentzer RM Jr**. Changing the paradigm for transfusing the anemic patient in an acute care environment. *J Ky Med Assoc* 103:86-91, 2005.
- Kristo G, Yoshimura Y, Keith BJ, Stevens RM, **Jahania SA**, **Mentzer RM Jr**, **Lasley RD**. Adenosine A1/A2a receptor agonist AMP-579 induces acute & delayed preconditioning against *in vivo* myocardial stunning. *Am J Physiol Heart Circ Physiol* 287:H2746-53.
- LeClaire AC, **Mullett TW**, **Jahania MS**, Flynn JD. Methemoglobinemia secondary to topical benzocaine use in a lung transplant patient. *Ann Pharmacother* 39(2):373-6, 2005. Epub 2005 Jan 11.
- Reid EA**, **Ballard-Croft C**, **Mentzer RM Jr**, **Lasley RD**. *In vivo* adenosine receptor preconditioning reduces myocardial infarct size via subcellular ERK signaling. *Am J Physiol* Jan 14, 2005, E Pub.
- Saha SP and Ferraris FA**. Primary pulmonary sarcoma. *Surg Rounds* 166-7, 2005.

### General Surgery

- Bernard AC**, Winstead SP, **Mentzer RM**. Changing the paradigm for transfusing the anemic patient in an acute care environment. *J KY Med Assoc* 103:86-91, 2005.
- Barnes S, **Bernard AC**, **Kearney P**, **Boulanger B**. A rare case of HITTS following prophylactic LMWH therapy in a blunt trauma victim. *Injury* 36: 347-351, 2005.

### Otolaryngology

- Arosarena O**, Collins WL. Bone regeneration in the rat mandible with bone morphogenetic protein-2: A comparison of two carriers. *Otolaryngol Head Neck Surg* 132: 592-597, 2005.
- Gossman DG**, Rosenblum W, **Arosarena O**, **Valentino J**. The acetabular reamer: a unique tool for anterior iliac crest bone graft harvesting. *Laryng* 115:557-9, 2005.
- Huang Z, Luo Y, Wu Z, Tao Z, **Jones, RO**, **Zhao HB**. Paradoxical enhancement of cochlear active mechanics in long-term administration of salicylate. *J. Neurophysiol* 93: 2053-2061, 2005.

### Neurosurgery

- Pu H, Tian J, Andras IE, Hayashi K, Flora G, Hennig B, **Toborek M**. HIV-1 Tat protein-induced alterations of ZO-1 expression are mediated by redox-regulated ERK1/2 activation. *J Cereb Blood Flow Metab* 2005 Apr 13; (Epub ahead of print).
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- Ravikumar R, Fugaccia I, Scheff SW, Geddes JW, Srinivasan C, **Toborek M**. Nicotine attenuates morphological deficits in a contusion model of spinal cord injury. *J Neurotrauma* 22:240-51, 2005.
- Flora G, Pu H, Lee YW, Ravikumar R, Nath A, Hennig B, **Toborek M**. Proinflammatory synergism of ethanol and HIV-1 Tat protein in brain tissue. *Exp Neurol* 191:2-12, 2005.
- Hennig B, Reiterer G, **Toborek M**, Matveev SV, Daugherty A, Smart E, Robertson LW. Dietary fat interacts with PCBs to induce changes in lipid metabolism in mice deficient in low-density lipoprotein receptor. *Environ Health Perspect* 113:83-7, 2005.

### Plastic Surgery

- Rinker B**, Valerio IL, **Stewart DH**, **Pu LLQ**, **Vasconez HC**. Microvascular free flap reconstruction in pediatric lower extremity trauma: a 10-year review. *Plast Reconstr Surg* 115:1618-24, 2005.

### Urology

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- Erickson DR**, Tomaszewski JE, Kunselman AR, Bentley CM, Peters KM, Rovner ES, Demers LM, Wheeler MA, Keay SK. Do the NIDDK cystoscopic criteria associate with other clinical and objective features of interstitial cystitis? *J Urol* 173:98-102, 2005.
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- Erickson DR**. Painful bladder syndrome. In Cardozo L. and Staskin D, Eds: *Textbook of Female Urology and Urogynecology*, 2<sup>nd</sup> Edition. Abingdon, UK, Taylor and Francis Books, Ltd, 2005.
- Keledjian K, Garrison JB, and **Kyprianou N**. Doxazosin inhibits vascular endothelial cell adhesion, migration and invasion. *J Cell Biochem* 94:1279-1285, 2005.
- Strup SE**, **Garrett JE**, **Rowland RG**. Laparoscopic partial nephrectomy: hand-assisted technique. *J Endourol* 19:456-60, 2005.
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## June Grand Rounds

MN 363; 6:45-7:45 a.m., \*unless otherwise indicated

### June 1

Oneida Arosarena, MD  
Assistant Professor of Surgery  
Division of Otolaryngology  
Department of Surgery  
UK College of Medicine

Management of Frontal  
Sinus Fractures

### June 10

Timothy C Fabian, MD, FACS  
Harwell Wilson Professor and  
Chairman  
Department of Surgery  
University of Tennessee  
Health Science Center

Compartment Syndrome -  
From Head to Toe