

Innovative Techniques in MIS Applied to Cardiac and Pediatric Surgery

Minimally invasive surgery (MIS) is a growing trend, often patient driven, to achieve the same surgical results as open surgery, using much smaller incisions and minimal cutting of muscle. Divisions in the Department of Surgery are using innovative MIS techniques and the patients are experiencing excellent outcomes.

When performing coronary artery bypass grafting (CABG) surgery, experience has proven that arterial conduits have a much higher patency rate than venous conduits. The conduits of choice for CABG have long been the internal mammary arteries, however, there are many occasions when those conduits are not enough or not a viable alternative. The next choice has been the radial artery, but procuring the conduit could be problematic. Traditionally, the method of procurement for the radial artery involved an incision that ran from a patient's wrist to elbow (see photo).

On November 13, Chand Ramaiah, M.D., Assistant Professor in the Division of Cardiothoracic Surgery, performed the first endoscopic radial artery harvesting in Lexington. The procedure involves a 2 cm incision at the wrist and a small puncture near the elbow. Dr. Ramaiah listed a number of benefits to patients undergoing this method of artery procurement. "Any time you can lessen trauma for a patient it is beneficial, this procedure better preserves the quality of the conduit, there is less nerve damage, and the chance for infection is diminished because of the small incision," he said (see photo), "the only complication I have seen so far is a small hematoma at the incision site, which resolved without further intervention." He continued to remark that there is a slight learning curve involved in the beginning when learning endoscopic harvesting, but after several procedures the time involved to use the

continued on p. 2

"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:

<i>Innovative Techniques</i>	1
<i>SCRIPT Developed</i>	1
<i>Adenosine Symposium</i>	3
<i>ACS Surgical Forum</i>	4
<i>Visiting Professor F. Charles Brunicardi, M.D.</i>	4
<i>New Resident</i>	4
<i>Strategic Planning Retreat</i>	4
<i>November Colloquium</i>	5
<i>Visiting Professor Richard H. Bell, Jr., M.D.</i>	5
<i>Resident of the Month</i>	5
<i>New Staff</i>	6
<i>Publication Office Changes</i>	6
<i>Awards and Honors</i>	7
<i>Faculty and Residents Honored at the Faculty Convocation</i>	7
<i>External Project Grants</i>	8
<i>Faculty Presentations</i>	8-10
<i>Faculty Publications</i>	11
<i>Grand Rounds</i>	12

SCRIPT Developed to Aid Researchers

The Department of Surgery has developed an office that will facilitate the Department goal of high quality research activities and faculty member goals of career development and tenure. The new office is the Surgery Clinical Research Investigational Protocol Team (SCRIPT) and is directed by Linda Rice, R.N., C.C.R.C. The main mission of the program is to provide the infrastructure necessary for clinical investigators to conduct research within the department. The team has four major objectives: education, clinical coordination, financial oversight, and regulatory compliance.



L-R Anna Rockich, M.S., Pharm.D., Patty Coleman, M.B.A., Linda Rice, R.N., C.C.R.C., Marietta Barton-Baxter, C.C.R.C.

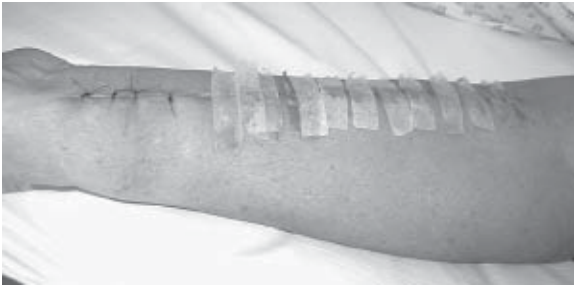
Six years ago the Division of General Surgery supported the formation of the General Surgery Research Program (GSRP). Under the direction of Anna Rockich, M.S., Pharm.D. the program has facilitated the growth of research

in the Division from 8 industry-sponsored studies and no investigator-initiated studies in 1997-98, to a peak 19 industry-sponsored studies and 37 investigator-initiated studies four years later. The Department has decided

continued on p. 3

Vol. 6, No. 3

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Above: traditional incision for radial artery procurement.
Below: incisions for endoscopic radial artery harvesting

endoscopic method is nearly identical to the time needed for the traditional method. Ramaiah, who has now done 6 of these procedures, said, “the usual time for a traditional radial artery procurement is about 30 minutes, most of which is spent stitching the wound; my first endoscopic harvesting took 42 minutes, but the most recent took only 25 minutes,” he smiled, “I don’t think I can do it any faster.”

Another conduit that is often used for coronary bypass grafting is the greater saphenous vein. Dr. Ramaiah has also been doing endoscopic vein harvesting for two years and estimates that he uses the technique for 95% of his patients. When he used traditional vein procurement he found that the majority of patients had more complications with the leg wounds than with the sternotomy, especially obese diabetic patients. “There were many infections with the open method and I have seen none with endoscopic harvesting,” he said, “also the quality of the vein is better.”

The latest treatments and technologies are also available to infants and children. Two surgeons in the Division of Pediatric Surgery, Joseph Iocono, M.D., assistant professor, and Daniel Beals, M.D., associate professor of surgery are both experts in the area of MIS. The Division offers a wide range of MIS procedures including diagnostic and therapeutic laparoscopy and thoracoscopy.

Drs. Beals and Iocono use fiberoptic scopes and miniature instruments to perform procedures in the abdomen and chest through very small incisions in even the smallest of patients. As

it does with adult patients, MIS can reduce discomfort, risk of infection, scarring, and length of hospital stay. “Pediatric surgical specialists have always used small incisions in order to minimize discomfort and scarring. Now, using MIS, we not only expand our services, but increase the quality and accuracy of care we give to our young patients,” said Dr. Iocono. “In many cases, the incisions are nearly invisible by the time we see them for their postoperative checkups.”

In a recent case, a 2-year-old child came to the service with what appeared to be an upper respiratory infection. Diagnostic tests revealed a previously undiagnosed congenital diaphragmatic hernia. In the past, the hernia would have been repaired with a large abdominal incision and required several days of hospitalization. However, using a minimally invasive procedure, the hernia was repaired with four 5mm incisions and the patient was sent home the next day.



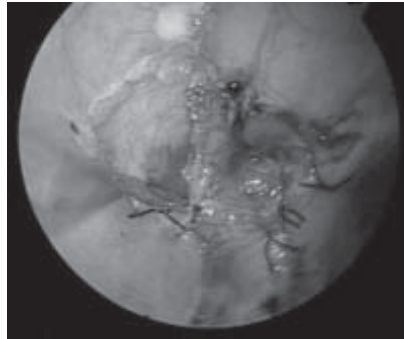
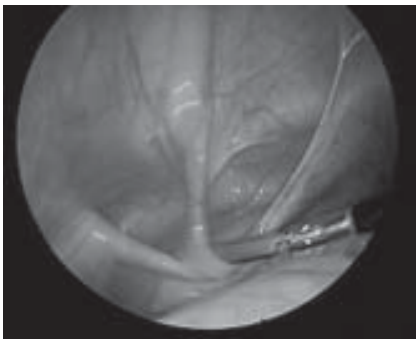
Chand Ramaiah, M.D.



Daniel Beals, M.D.



Joseph Iocono, M.D.



Endoscopic views of the diaphragmatic hernia (left) and the hernia repair (right)

The improvement of patient care is always a priority in the Department of Surgery. The use of MIS techniques offers patients an alternative to traditional incisions and their complications.

SCRIPT continued from p.1

to develop an office that will expand the original division program model to the entire department.

The new team consists of Ms. Rice, Research Director, Marietta Barton-Baxter, C.C.R.C. Regulatory Administrator, Patty Coleman, M.B.A., Financial Administrator and Dr. Rockich, who lends her expertise from the GSRP. In addition, the team includes: Connie Dampier, R.N. M.P.A., Fran Edelen, R.N., Nannette Freeman, R.N., Elizabeth Jones, R.N.C., C.C.R.C., Donna McKinley, R.N., Jill Robinson, M.T., A.S.C.P, Danielle Sager, Tina Sledge, R.N., Kim Stroth, Jimmy Tudor, and Jill Warner-Carpenter, R.N., C.C.R.C. The team combined has over 80 years of research experience.

The research process hinges on the role of the principal investigator (PI), he/she is ultimately responsible for all aspects of the conduct of a clinical trial. One aspect of SCRIPT's function is the education of the investigator as to his/her role and responsibilities. There are so many facets to supervision of a clinical trial that details can be overlooked. For example, recently a federal mandate required that all investigators for clinical trials be trained in Human Subject Protection. The SCRIPT office facilitated this training effort within the department. SCRIPT will aid and advise students, housestaff and faculty in the research process as well as keep its staff up-to-date. Part of the mission of this new program is to aid faculty members in their career goals such as publishing, furthering their research interests and securing promotion with tenure.

Clinical coordination is a vital part of patient oriented research. As part of the SCRIPT

team model, Clinical Study Managers are responsible for oversight of all the clinical trials within his/her division(s). Under the direction of the Clinical Study Managers the Study Coordinators work directly with the PI in conducting the trial. The Study Coordinators are responsible for the day-to-day operations of the studies. They conduct the subject visits, collect and manage data, maintain communication with the subjects and the IRB, maintain documentation and monitor the budget and study accounts. Each level works closely with the investigator to ensure accuracy and proper conduct of the trial.

Oversight of contracts, budgets, and grant monies are often challenging to the investigator. The SCRIPT team will help investigators find sponsors or work with the investigators to develop key relationships with sponsors. When a company has approached an investigator for a trial, the study can be submitted to the SCRIPT staff, which will review the document and submit it to the university contract office. After it returns, the staff will work with the investigator on a budget proposal, submit the document and assist the PI with budget negotiations with the company. After the company agrees with the proposed budget, it is then sent to the contract office to be included in the final clinical trial agreement, at which time the internal account will be set up so the study can begin.

Research is not a static field, regulations change often and rapidly. As a result of recent heightened news media coverage of research study related incidents and increasing consumer awareness, many new regulations have been created for the conduct of human research. For example,



The SCRIPT team. L-R front: Elizabeth Jones, Danielle Sager, Marietta Barton-Baxter; middle: Nannette Freeman, Fran Edelen, Connie Dampier, Jill Warner-Carpenter, Tina Sledge; back: Patty Coleman, Linda Rice, Jill Robinson, Anna Rockich

there are the new regulations pertaining to prisoners and the inclusion of children in research. Therefore, investigators need to make it a point to become familiar with these changing and new regulations as they develop. The SCRIPT regulatory office will serve as a resource and keep investigators up to date with these changes. When a protocol is brought to the SCRIPT office the staff will review the study, identify any regulatory issues and resolve them before the study begins. The SCRIPT regulatory office will assemble and submit the IRB/HIPAA application, IBC and VA Research and Development Committee applications (if necessary), any requested revisions necessary, will maintain communication with the IRB office and maintain a Regulatory Binder, which will satisfy documentation requirements for the sponsor and FDA.

The continuing quality as well as quantity of research in the Department of Surgery is very important to the faculty and staff. This new office offers researchers a means of conducting clinical trials and meeting the regulations and guidelines in an ever-changing research environment.

Adenosine Symposium and Results of the EXPEDITION Trial

Robert M. Mentzer Jr., M.D., Frank C. Spencer Professor and Chairman of the Department of Surgery was on the organizing committee and acted as moderator for the 9th International Symposium on Adenosine, Cardio-protection and Its Clinical Application entitled, "The Mitochondria in Myocardial Ischemia." The symposium was held November 8, 2003 in Orlando and focused on the central role mitochondria appear to play in the ischemic myocyte. The sessions

featured speakers from Japan, England, Italy and the United States.

The 2003 American Heart Association Scientific Sessions followed the Adenosine Symposium. In the Late Breaking Clinical Trials session Dr. Mentzer presented "Na⁺/H⁺ Exchange (NHE) Inhibition To Prevent Coronary Events In Acute Cardiac Conditions: Results of the EXPEDITION Study." The Sodium-Proton Exchange Inhibition to Prevent Coronary Events in Acute Cardiac Conditions

(EXPEDITION) trial was designed to investigate whether treatment with the NHE inhibitor, cariporide, could reduce the incidence of death or MI in patients undergoing CABG surgery. It was a multicenter, double-blind, randomized, placebo-controlled, parallel-group trial comparing cariporide with placebo in CABG patients at high risk for perioperative myocardial ischemia. The abstract from the AHA conference can be accessed at <http://www.medscape.com/viewprogram/2770>.

American College of Surgeons Surgical Forum

The American College of Surgeons 89th Annual Clinical Congress Surgery Forum on "The Importance of Genomics and Proteomics in Surgical Research" was held October 21. **Robert M. Mentzer Jr., M.D., F.A.C.S.**, chairman of the Department, acted as moderator. The session was dedicated to John T. Grayhack, M.D., F.A.C.S., for his continuing contributions to surgical research and mentorship, and sponsored by the Committee for the Forum on Fundamental Surgical Problems.

During the session, Surgical Forum Excellence in Research Awards were presented to Emily Winslow, M.D., Washington University School of Medicine, St. Louis, MO; Robert J. Feezor, M.D., University of Florida, Gainesville, FL; and Carlos Murillo, M.D., University of Texas, Galveston, TX.

The session presentations were "Trauma Glue," by Ronald G. Tompkins, M.D., F.A.C.S., Boston, MA; "Injury in the Genomic Era," by J. Perren Cobb, M.D., F.A.C.S., St. Louis, MO; "Proteomic Based Therapeutics for Cardiovascular Diseases and Cancer," by Colleen M. Brophy, M.D., F.A.C.S., Phoenix, AZ; and "Myocardial Gene Expression Associated with Circulatory Support Devices," by Robert C. Robbins, M.D., F.A.C.S., Stanford, CA.

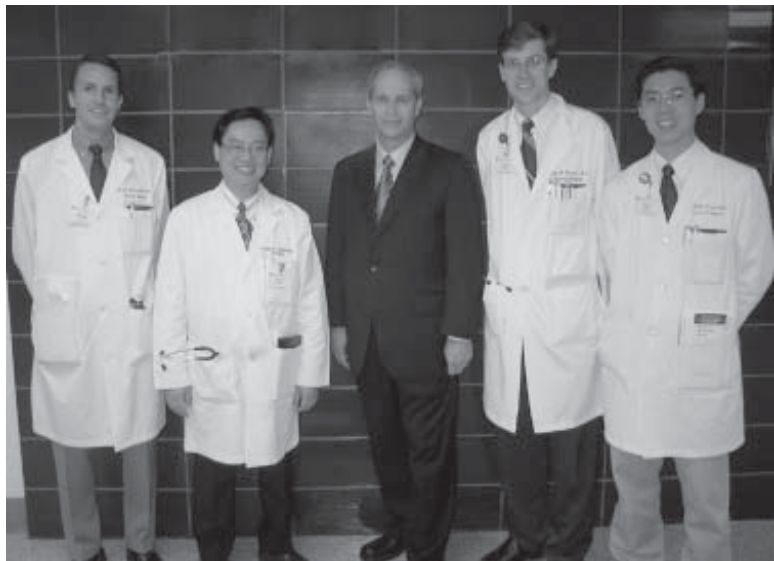
Visiting Professor F. Charles Brunicardi, M.D.

F. Charles Brunicardi, M.D., F.A.C.S., was the visiting professor for the Division of General Surgery on November 4 and 5.

Dr. Brunicardi is the DeBakey/Bard Professor and Chairman of the Michael E. DeBakey Department of Surgery, Baylor College of Medicine and Chief of Surgical Services at The Methodist Hospital in Houston, since 1999. He is also a consultant and attending surgeon at the Houston Veterans Affairs Medical Center, Ben Taub General Hospital, and St. Luke's Episcopal Hospital. He received his medical degree from Rutgers School of Medicine performed his residency in general surgery at the State University of

New York (SUNY) Health Science Center in Brooklyn. He also spent a three-year research fellowship in pancreatic physiology at SUNY and received national and international awards for this work. Dr. Brunicardi's clinical interests include gastroenterology, pancreatic cancer, breast cancer, and minimally invasive surgery.

His Grand Rounds presentation was entitled "The Endocrine Pancreas: A Unifying Hypothesis." Dr. Brunicardi later commented on clinical case presentations by chief residents, Phillip Chang, M.D., Ramon Romero, M.D., Andrew Barksdale, M.D., and Randy Stevens, M.D.



F. Charles Brunicardi, M.D., center, with Andrew Barksdale, M.D., Ramon Romero, M.D., Randy Stevens, M.D. and Phillip Chang, M.D.

Department of Surgery, 3rd biennial **Strategic Planning Retreat**

Friday, March 12, 2004
Hyatt Regency, Lexington

Panel members for the 2004 Strategic Planning Retreat are:

Michael Nietzel, Ph.D., Provost

Michael Karpf, M.D., Executive Vice
President for Health Affairs

Wendy Baldwin, Ph.D., Executive Vice
President for Research

For information
contact: Charli Townes 323-6162 or cktown@uky.edu

New Resident Welcomed



Ninad Karandikar, M.D.

Ninad Karandikar, M.D. joined the Division of Orthopaedic Surgery as a Trauma Fellow on October 1, 2003. He comes to UK from a year-long clinical fellowship in Orthopaedic Surgery - Adult Reconstruction at the University of Louisville.

Dr. Karandikar received his medical degree from LTM Medical College and LTM General Hospital (University of Bombay), Bombay, India. He will be with the Division for one year.

Colloquium Emphasizes A Career in Research and Teaching

On Wednesday, November 19, 2003 Alfred M. Cohen, M.D., F.A.C.S., F.A.S.C.R.S., Director and CEO of Markey Cancer Center, and Professor of Surgery, presented his colloquium entitled "Academic Surgery." Dr. Cohen focused on choices made by newly qualified surgeon to pursue clinical and research teaching jobs. He spoke specifically about oncology however his comments apply to any specialty.

He stated that when applying for a first position there are a number of factors to consider, such as adequate support for start-up (three years), a balance of obligations in clinic and lab, protected time, prior mentor successes in the leadership of the division (department, center), and commitment of the research mentor. In addition, strategies for a successful career as an academic surgeon include strategic planning that includes a living document reviewed yearly, short and long-term goals, measurable outcomes, and regular reviews with mentors to determine if the plan is consistent with their vision.

Dr. Cohen also made practical suggestions concerning publication and presentation of research findings. "The most important thing to remember in writing," he said, "is to start doing it, dedicate time and commit ideas and findings to print." He also suggested keeping a list of due dates for abstracts and learning to write clearly and concisely. When making an oral presentation, Dr. Cohen offered the following advice: take enough time to prepare (approximately one hour per minute), get a critique from colleagues before presenting, prac-



Dr. Cohen with Dinesh Ranjan, M.D.

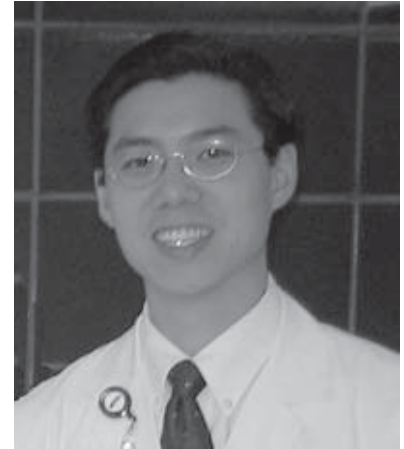
tice, have a backup for the presentation, and when answering questions repeat the question before responding.

Dr. Cohen said that not all faculty members maintain the passion to succeed as principal investigator in a lab-based program. There is an enormous time commitment, mentoring, participation in weekly meetings, and pursuit of funding. There are additional academic paths that are not lab-based, which include clinical trials, education, quality improvement, population-based research, prevention, screening, informatics, and business aspects.

Finally, he noted that each surgeon must find a personally rewarding specialty. There are many career paths within academic surgery that will result in fulfillment for the physician and benefit for the patient.

The 2004 colloquia will be March 17, May 19, July 21, September 15 and November 17, 8:30 a.m. in MN 136, the College of Medicine Dean's Conference Room.

Resident of the Month December



Phillip Chang, M.D., General Surgery resident, was selected as our resident of the month for December 2003.

Dr. Chang was nominated by two individuals at UK, who noted, among other things, that Dr. Chang "always takes time to talk with the family even when he is busy," and "families have more confidence in our hospital because Dr. Chang updates them." A staff member commented, "he is complimentary to the staff and says thank you; he is so positive that I, as a nurse, enjoy working with him."

Dr. Chang received a certificate, \$150.00 credit at the UK Medical Bookstore, \$80 toward dinner at one of Lexington's fine restaurants, and a parking space for the month in the VA parking garage.

Visiting Professor Richard H. Bell Jr., M.D.



Richard H. Bell Jr., M.D.

Richard H. Bell Jr. M.D. is the Loyal and Edith Davis Professor of Surgery and chair of the Department of Surgery at the Feinberg School of Medicine, Northwestern University. Dr. Bell also serves as Surgeon-in-Chief at Northwestern Memorial Hospital. In addition, he is the Program Director for the General Surgery Residency Program. He received his medical degree at Northwestern and his surgical residency at the University of Colorado Medical Center in Denver. From 1976-78, he performed active duty in Frankfurt, Germany, as a major in the U.S. Army Medical Corps.

Dr. Bell has a long-standing interest in pancreatic diseases and has had extramural research funding for more than 20 years from the Veterans Administration and from the National Institutes of Health for the study of pancreatic cancer. He has written numerous articles and book chapters and edited a major textbook in digestive tract surgery. He sits on the editorial boards of the *Journal of Gastrointestinal Surgery*, *Surgery*, and *Pancreas*.

His Grand Rounds presentation on Wednesday, February 25 is entitled, "The Surgical Management of Chronic Pancreatitis."

New Staff



Brandee Brown, Research Analyst, Otolaryngology



Juanita Callas, Clinical Services Technician, Plastic Surgery



Cynthia Salinas, Clinical Services Technician, Otolaryngology



Freddy James, Orthopaedic Technician, Orthopaedic Surgery



Verna Moore, Staff Associate, General Surgery



Brenda Young, Patient Relations Assistant, Orthopaedic Surgery



Margaret McCann, Administrative Support Associate, General Surgery



Sandra Bultmon, Patient Relations Assistant, Urology

Publications Office Changes

The Department of Surgery Publications Office has two new faces. Margaret Lyle, who was formerly a technical writer and editor, is the new Publications Production Manager replacing Grace Sears, Ph.D. Jason T. Mitchell has also joined the office as Staff Associate. Ms. Lyle has been a researcher and editor for over thirty years. Her original training in technical writing was as a catalog writer for thoroughbred horse sales. She has also done freelance research and writing and has a degree in English. She joined the Department in August 2002. Mr. Mitchell came to the office in November from Eastern Kentucky University where he worked in student admissions as communications coordinator. Prior to his position at EKU, Mr. Mitchell served on staff at Cumberland College as both the creative and communications coordinator for the office of admissions.



Margaret Lyle and Jason Mitchell

The Publications Office offers a number of services to the Department of Surgery including a full range of editing and submitting manuscripts and abstracts. The office also searches the National Library of Medicine to complete and format references. The addition of new equipment has enabled the office



Samantha Terry, Physician Assistant; Lisa Varner, Staff Support Associate; Ethel Wisdom, Administrative Support Associate, Cardiothoracic Surgery

to offer color laser printing, posters, document scanning, slide scanning and photography. The staff is also trained in digital imaging software and can enhance photographs by adding text, lines, arrows or simply adjusting focus or levels of brightness and contrast.

The services of the Publications Office are designed to facilitate scholarly publication as well as advertising for the Department. The staff is also able to develop posters and PowerPoint presentations. Any printed materials may be sent to the office for proofreading and editing. To contact the Publications Office, please call 323-5057 or email: mgrav0@email.uky.edu.

Awards and Honors

Natasha Kyprianou, Ph.D., Professor of Surgery, Division of Urology, James F. Hardymon Chair of Urological Research and



Natasha Kyprianou, Ph.D.

Professor of Molecular and Cellular Biochemistry, Markey Cancer Center, was elected President of the Society for Basic Urologic Research. Her term will last from 2003 to 2005. The Society for Basic

Urologic Research (SBUR) is a society of scientists whose members include molecular biologists, immunologists, epidemiologists, oncologists, biochemists and clinical urologic scientists. SBUR was organized in part to provide a forum for the presentation and discussion of basic scientific topics related to urology, and develop educational forums. Jason Garrison, a graduate student who is presently working with Dr. Kyprianou, has

been awarded a prestigious Travel Award by the American Association for Cancer Research (AACR). He will present his research findings at an AACR Special Conference on Cancer Molecular Therapeutics in Hawaii in January 2004.

Easton Reid, Ph.D., postdoctorate researcher in Cardiothoracic Surgery, has been awarded an Individual Postdoctoral Fellowship award by the National Heart, Lung and Blood Institute in the amount of \$41,608.

Brian Rinker, M.D., Assistant Professor of Plastic Surgery, has passed his certification from the American Board of Plastic Surgery.



Brian Rinker, M.D.

David Pienkowski, M.D., Associate Professor of Orthopaedic Surgery was awarded U.S. Patent Number 6,559,961 for his invention

“Polymethyl-methacrylate Augmented with Carbon Nanotubes.” His co-inventor was Rodney J. Andrews, M.D.

Henry C. Vasconez, M.D., chief of the Division of Plastic Surgery, was selected to be included in *Best Doctors in America 2003-2004*. Only those physicians who earn consensus support of their peers are included.

Patrick McGrath, M.D., Professor of Surgery and Head of the section of Surgical Oncology and Endocrine Surgery. Has been listed in *America's Top Doctors: The Best in American Medicine*, 3rd edition.

Carter Cassidy, M.D. won the Rusty Hip Award at the Fall Meeting of the Kentucky Orthopaedic Society. Along with a \$500 prize and Dr. Cassidy's personal award, the Division of Orthopaedic Surgery gets the honor of displaying the “Rusty Hip” trophy.

Faculty and Residents are Honored at the Faculty Convocation

The Ward O. Griffen Surgery Teaching Award for Excellence in Medical Student Education and the Ben Eiseman Surgery Teaching Award for Excellence in Resident Education were established in 1999 to honor faculty members who have demonstrated excellent educational skills and contributed significantly to medical student and resident education over

the past academic year. The awards were presented at the Faculty Convocation on September 25, 2003.



Timothy Mullett, M.D.

made of his instructional skills.

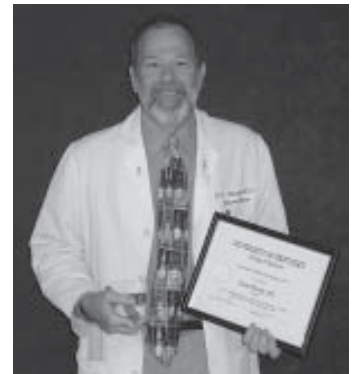
This year, **Timothy Mullett, M.D.** was chosen to receive the Ward O. Griffen Surgery Teaching Award for his excellence in medical student education. He was chosen in part because of the very positive evaluations medical students

experience while on the CT service. It was without a doubt my favorite clinical experience, thanks in a large part to Dr. Mullett.”

Randall Rowland, M.D. was chosen to receive the Ben Eiseman Surgery Teaching Award based on his Surgery resident evaluations as well as his dedicated contributions to resident education.

Dan Kenady, M.D. received the Clinical Clerkship Teaching Award and **Andrew Pulito, M.D.** was recognized in the area of Educational Innovation and Curriculum Development.

General Surgery PGY 4 Resident, **Matt Shane, M.D.** received the Clinical Housestaff Teaching Award.



Dan Kenady, M.D.



Matt Shane, M.D., with co-recipients LaDonya Reed, M.D. (Psychiatry) and Timothy Houchins, M.D. (Psychiatry)

A student commented, “It was a pleasure working with Dr. Mullett, and I appreciate everything he allowed me to

External Project Grants Awarded

- ◆ **Andrew Bernard, M.D.**, has been awarded an Eli Lilly and Company grant in the amount of \$43,400 for his project, “Efficacy and Safety of Drotrecogin Alfa (Activated) in Adult Patients with Early Stage Severe Sepsis.”
- ◆ **Victor Ferraris, M.D.**, has been awarded a BioMarin Pharmaceutical, Inc. grant in the amount of \$141,492 for his project, “A Phase II Comparison of Neutralase to Protamine in Patients Undergoing Primary Coronary Artery Bypass Graft Surgery.”
- ◆ **Victor Ferraris, M.D.**, has been awarded a grant from The Medicines Company in the amount of \$75,043 for his project, “A Study Comparing Angiomax (bivalirudin) to Heparin Protamine Reversal in Patients Undergoing Off-Pump Coronary Artery Bypass (OPCAB) Surgery.”
- ◆ **Victor Ferraris, M.D.**, has been awarded a grant from The Medicines Company in the amount of \$10,000 for his project, “A Phase III Study of Aniomax (bivalirudin) in Patients with HIT/HITTS Type II Undergoing Off-Pump Coronary Artery Bypass (OPCAB) Surgery.”
- ◆ **Paul Kearney, M.D.**, has been awarded a Syncro Medical Innovations grant in the amount of \$15,007 for his project, “Placement of Nasoenteral Feeding Tubes Using External Magnetic Guidance.”
- ◆ **Yong-Woo Lee, Ph.D.**, has been awarded a National Center for Research Resources grant in the amount of \$36,200 for his project, “Center of Biomedical Research Excellence in Women’s Health (COBRE).”
- ◆ **Robert Mentzer, M.D.**, has been awarded a Pharmacia & Upjohn, Inc. grant in the amount of \$83,455 for his project, “Clinical Protocol for a Double-Blind Multicenter Study of the Safety and Efficacy of Parecoxib/Valdecoxib and Placebo/Valdecoxib Compared to Placebo for Treatment of Post-Surgical Pain in Patients who Have Coronary Bypass Graft via Median Sternotomy.”
- ◆ **Lee Pu, M.D.**, has been awarded an Aesthetic Surgery Education Research Foundation grant in the amount of \$9,865 for his project, “Optimal Preservation of Adipose Aspirates for Autologous Fat Transplantation.”
- ◆ **Dinesh Ranjan, M.D.**, has been awarded a Syreon Corporation on behalf of Wyeth Research grant in the amount of \$12,000 for his project, “Rapamune Outcomes Assessment Registry (ROAR).”
- ◆ **Paul Spring, M.D.**, has been awarded an Aventis Pharmaceuticals grant in the amount of \$59,335 for his project, “Low-Dose Fractionated Radiation Chemo-Potentiate the Effect in Nude Mice Xenografts of Head and Neck Squamous Cell Carcinoma.”
- ◆ **Phillip Tibbs, M.D.**, has been awarded a DePuy AcroMed grant in the amount of \$41,832 for his project, “A Post-Approval Evaluation of the Lumbar I/F Cage with VSP Spine System for PLIF.”
- ◆ **A. Byron Young, M.D.**, has been awarded an IVAX Research, Inc. grant in the amount of \$158,850 for his project, “A Multicenter Phase II Study of TP-38 in those Patients with Glioblastoma Multiforme who Have Recurred or Progressed After Previous Resection and Radiation Therapy and are Scheduled for Gross Total Resection.”

Faculty Presentations

Cardiothoracic

Robert M. Mentzer Jr., M.D.

- Guardian Study Revisited, Halsted Society Meeting, Boston, MA. September 2003.
- The Importance of Genomics and Proteomics in Surgical Research, Moderator, Surgical Forum General Session 24, American College of Surgeons, Chicago, IL. October 2003.
- Sodium Proton Exchange-Inhibition to Prevent Coronary Events In Acute Cardiac Conditions, Plenary Session, PS. 11, American Heart Association, Orlando, FL. November 2003.
- The Mitochondria in Myocardial Ischemia, Moderator, 9th International Symposium on Adenosine, Cardioprotection and Its Clinical Application, Orlando, FL. November 2003.
- Sodium Proton Exchange-Inhibition to Prevent Coronary Events in Acute Cardiac Conditions (The EXPEDITION Trial), Expedition Steering Committee Meeting, American Heart Association, Orlando, FL. November 2003.

General Surgery

Paul Kearney, M.D.

- Antimicrobial Use and the Emergence of Resistant Pathogens, Family Medicine Resident Conference, Corbin, KY. September 2003.

Faculty Presentations

Betty Tsuei, M.D.

- **Tsuei BJ, Bernard AC, Meier CF, Barnes SL, Boulanger BR, Kearney PA**, Supplemental Enteral Arginine is Metabolized to Ornithine in Injured Patients, 37th Annual Meeting of the Association for Academic Surgery, Sacramento, CA. November 2003.

Neurosurgery

Roy Patchell, M.D.

- New Developments in the Treatment of Metastatic Epidural Spinal Cord Compression, Departments of Neurology, Neurosurgery, and Radiation Medicine, Barrow Neurological Institute, Phoenix, AZ. September 2003.
- New Developments in the Treatment of Metastatic Epidural Spinal Cord Compression, Visiting Professor, Department of Neurology, University of Massachusetts, Worcester, MA. September 2003.
- New Developments in the Treatment of Primary and Metastatic Brain Tumors, Multidisciplinary Tumor Conference, Brown Cancer Center, Louisville, KY. October 2003.
- New Developments in the Treatment of Primary and Metastatic Brain Tumors, Visiting Professor, University of Louisville, Brown Cancer Center, Louisville, KY. October 2003.
- New Developments in the Treatment of Metastatic Epidural Spinal Cord Compression, Invited Speaker, Kentucky Astrocytoma Research Endeavor, Louisville, KY. October 2003.
- Management of Brain Metastases: An Evidence-Based Approach, Invited Speaker, 45th Annual Meeting of the American Society for Therapeutic Radiation and Oncology (ASTRO), Salt Lake City, UT. October 2003.

Orthopaedic Surgery

Steven Lawrence, M.D.

- Foot and Ankle Tumors; Ankle Fracture Management; Foot Fracture Management, Orthopaedic Grand Rounds, KY Clinic, Lexington, KY. August-September 2003.
- Classification of Open Calcaneal Injuries, Australian Orthopaedic Association Meeting, Adelaide, Australia. October 2003.

Scott Mair, M.D.

- Associate Master Instructor, Orthopaedic Learning Center - AANA, Rosemont, IL. October 2003.

Otolaryngology

Sanford Archer, M.D.

- Techniques of Evidence-Based Medicine Instructional Course, American Academy of Otolaryngology - Head and Neck Surgery Annual Meeting, Orlando, FL. September 2003.

Joilyn Bush, M.D.

- Introduction to Audiology, University of Kentucky Speech-Language Pathology and Audiology Undergraduate Lecture, Lexington, KY. November 2003.

Richard Haydon, M.D.

- Aventis Breakfast Symposium: Pharmacokinetics of Anti-Infectives, 62nd Annual Meeting of the American Academy of Otolaryngic Allergy, Orlando, FL. September 2003.
- The AAOA Fellowship Exam: Guidelines and Information, Basic Course in Otolaryngic Allergy, San Diego, CA. July 2003.
- Application of Immunotherapy for Inhalant Allergy: Vial Preparation, Initial Dosing, Escalation, Maintenance, and Withdrawal, Basic Course in Otolaryngic Allergy, San Diego, CA. July 2003.
- **Haydon RC, Mabry RL**, Academic Roundtable, 62nd Annual Meeting of the American Academy of Otolaryngic Allergy, Orlando, FL. September 2003.

Raleigh Jones, M.D.

- Steroid Use in Otolaryngology: When, How, Why and Why Not, American Academy of Otolaryngology - Head & Neck Surgery 2003 Annual Meeting, Orlando, FL. September 2003.

John Wyllie, M.D.

- Non-Cosmetic Rhinoplasty, 35th Annual Family Medicine Review, Lexington, KY. November 2003.

Plastic Surgery

Jason Jack, M.D., Henry Vasconez, M.D., and B Fink

- A 12-year Experience with Surgical Correction for Craniosynostosis at a Single University Center, International Society of Craniofacial Surgery 10th International Congress, Monterey, CA. September 2003.

Lee L.Q. Pu, M.D., BP Joseph, Daniel Stewart, M.D., Brian Rinker, M.D., and Henry Vasconez, M.D.

- Modern Surgical Treatment of Complex Facial Fracture: A 6-year review, 13th International Congress of the International Confederation for Plastic, Reconstructive and Aesthetic Surgery, Sydney, Australia. August 2003.

Lee L.Q. Pu, M.D.

- Soft Tissue Reconstruction of the Leg: What Can Be Achieved With A Hemisoleus Muscle Flap, International College of Surgeons, 38th North American Federation Congress And Joint Meetings of The Canadian, United States and Mexican Sections, Montreal, Canada. July 2003.

continued on p. 10

Faculty Presentations (continued)

Henry Vasconez, M.D.

- Scaphocephaly: Sagittal Craniosynostosis - A Modified Technique for Minimally Invasive Treatment, Tri-State Craniofacial Conference, Louisville, KY. September 2003.
- Future of Children with Craniofacial Problems, Tri-State Craniofacial Conference, Louisville, KY. September 2003.
- Craniofacial Surgery at the University of Kentucky, Kentucky Society of Plastic Surgeons Annual Meeting, Louisville, KY. September 2003.
- Craniofacial Anomalies: An Update on Treatment, Northeastern College of Plastic, Aesthetic and Reconstructive Surgery, Instructional Course, Monterrey, Mexico. October 2003.
- Rejuvenation of the Brow and Midface, Northeastern College of Plastic, Aesthetic and Reconstructive Surgery, Instructional Course, Monterrey, Mexico. October 2003.
- A Case of Blast Injury: Management of Burning Issues, 14th Annual Trauma/Emergency Symposium, Lexington, KY. November 2003.
- Moore FO, Thornton B, Zabel DD, **Vasconez HC**, Congenital Absence of the Orbital Roof in a Child with Vertical Orbital Dystopia, International Society of Craniofacial Surgery 10th International Congress, Monterey, CA. September 2003.

Transplantation

Dinesh Ranjan, M.D.

- Adefovir Dipivoxil for Lamivudine Resistant Post-Transplant Hepatitis B, EASL, Geneva, Switzerland. July 2003.
- **Ranjan D, Johnston TD, Reddy KS, Khan T**, Biliary Complications after Liver Transplantation, The North American Federation of the International College of Surgeons, Montreal, Canada. July 2003.
- **Ranjan D, Johnston TD, Reddy KS, Khan T**, HepatoCellular Carcinoma in Liver Transplantation, Incidental versus Known Tumors, The North American Federation of the International College of Surgeons, Montreal, Canada. July 2003.
- **Johnston TD, Reddy KS, Khan T, Ranjan D**, Cold Ischemic Times and Expanded Criteria Donor Kidneys, South Eastern Organ Procurement Foundation, Atlanta, GA. September 2003.
- **Ranjan D, Chen C, Johnston TD, Reddy KS, Khan T, Nagabhushan M**, Curcumin Inhibits Mitogen Stimulated Lymphocyte Proliferation, NF-kappa-B Activation and IL-2 Signaling, Association for Academic Surgery 37th Annual Meeting, Sacramento, CA. November 2003.

Urology

Natasha Kyprianou, Ph.D.

- TGF-beta Signalling Pathways in BPH and Prostate Cancer, 5th World Congress On Urologic Research, London, UK. September 2003.
- Apoptotic Outcomes of TGF-beta Signaling in Prostate Tumor Genesis, Boston Endourology Distinguished Speaker Series, Boston, MA. October 2003.

Randall Rowland, M.D.

- Testicular Tumors, Hematology/Oncology Fellows. University of Kentucky Medical Center, Lexington, KY. August 2003.

Stephen Strup, M.D.

- **Strup SE, Hubosky S, Brown J, Diamond S, Gomella L**, Hand-Assisted Laparoscopic Partial Nephrectomy (HALPN) with Selective Use of Hilar Clamping, 21st World Congress on Endourology and SWL, Montreal, Canada. September 2003.
- **Bhayani SB, Pavlovich CP, Strup SE, Dahl DM, Landman J, Fabrizio MD, Simdara CP, Kaouk J, Su L**, Laparoscopic Radical Prostatectomy: A multi-Institutional Study of Conversions to Open Surgery, 21st World Congress on Endourology and SWL, Montreal, Canada. September 2003.
- **Chenven ES, Diamond SM, Glassman D, Gomella LG, Strup SE**, Outcome and Follow-up of Hand-Assisted Laparoscopic Nephroureterectomy: The Jefferson Experience, 21st World Congress on Endourology and SWL, Montreal, Canada. September 2003.
- **Chenven ES, Strup SE, Lene N, Patel C, Rasmani K**, Secondary vs. Primary Ureteropelvic Junction Obstruction: Laparoscopic Pyeloplasty at a Single Institution, 21st World Congress on Endourology and SWL, Montreal, Canada. September 2003.
- Outcome and Follow-up of Hand-Assisted Laparoscopic Nephroureterectomy: the Jefferson Experience, 61st Annual Meeting of the Mid-Atlantic Section of the American Urological Association, Boca Raton, FL. October 2003.
- Laparoscopic Radical Prostatectomy, Basic & Advanced Urologic Laparoscopic Conference, Santa Fe, NM. October 2003.
- Advances in Surgery for Localized Prostate Cancer, University of Kentucky Prostate Cancer Conference, Lexington, KY. October 2003.
- Laparoscopic Nephrectomy/Nephroureterectomy, Basic & Advanced Urologic Laparoscopic Conference, Santa Fe, NM. October 2003.
- Bladder Cancer, Continuing Education Family Medicine Review, Lexington, KY. November 2003.
- Laparoscopy in Urology, Broward General Medical Surgery Ground Rounds, Ft. Lauderdale, FL. December 2003.

Faculty Publications

Cardiothoracic Surgery

- Mentzer RM Jr, Lasley RD**, Jessel A, Karmazyn M. Intracellular sodium hydrogen exchange inhibition and clinical myocardial protection. *Ann Thorac Surg* 75(2):S700-708, 2003.
- Vinten-Johansen J, **Mentzer RM Jr**. Attenuation of post cardioplegia injury with inhibitors of the sodium-hydrogen exchanger. *J Thorac Cardiovasc Surg* In Press, 2003.

General Surgery

- Guillem JG, Moore HG, Paty PB, **Cohen AM**, Wong WD. Adequacy of distal resection margin following preoperative combined modality therapy for rectal cancer. *Ann Surg Oncol* 10(7):824, 2003.
- Hanna NN, Mentzer RM Jr**. Molecular genetics and management strategies in hereditary cancer syndromes. *J Ky Med Assoc* 101(3):100-107, 2003.
- Ruo L, Paty PB, Minsky BD, Wong WD, **Cohen AM**, Guillem JG. Results after rectal cancer resection with in-contiguity partial vaginectomy and total mesorectal excision. *Ann Surg Oncol* 10(6):664-668, 2003.

Neurosurgery

- Anderson TS, Regine WF, Kryscio R, **Patchell RA**. Neurologic complications of bladder carcinoma: a review of 359 patients. *Cancer* 97:2267-2272, 2003.
- Patchell RA**, Regine WF. The rationale for adjuvant whole brain radiation therapy with radiosurgery in the treatment of single brain metastases. *Technol Cancer Res Treat* 2:111-116, 2003.
- Patchell RA**. The management of brain metastases. *Cancer Treat Rev* 29: 533-540, 2003.
- Patchell RA**. Central nervous system metastases. In: Aminoff MJ, Daroff RB, eds. *Encyclopedia of the Neurological Sciences*. Philadelphia, PA: Academic Press; 2003.
- Patchell RA**. Metastatic brain tumors. In: Noseworthy J, ed. *Therapeutics: Principles and Practice*. London, UK: Martin Dunitz; 2003.

Orthopaedic Surgery

- Caborn DNM, Nyland J, **Selby JB**, Tetik O. Biomechanical testing of hamstring graft tibial tunnel fixation with bioabsorbable interference screws. *Arthroscopy* 19:991-996, 2003.
- Glueck DA, **Mair S, Johnson DL**. Shoulder instability with the absence of the long head of the biceps tendon. *Arthroscopy* 26(7):787-789, 2003.
- Lawrence SJ**, Grau GF. Evaluation and treatment of open calcaneal fractures: A retrospective review. *Orthopaedics* 26(26):1-6, 2003.

Otolaryngology

- Arosarena OA**, Collins WL. Defect repair in the rat mandible with bone morphogenic protein-5 and prostaglandin E1. *Arch Otolaryngol - Head Neck Surg* 129:1125-1130, 2003.
- Haydon RC**. Addressing the prevalence of respiratory allergy in the home environment. *Otolaryngol Clin North Am* 36:803-824, 2003.

Plastic Surgery

- Pu LL, Joseph BP, Stewart DH, Rinker B, Vasconez HC**. Modern surgical treatment of complex facial fractures: a six year review. *ANZ J Surg Suppl A*:190, 2003.
- Rinker B**, Karp NS, Margiotta M, Blei F, Rosen R, Rofsky NM. Role of magnetic resonance imaging in the management of vascular malformations of the trunk and extremities. *Plast Reconstr Surg* 112(2):504-510, 2003.
- Stewart DH, Mentzer RM Jr**. Nasal reconstruction. *J Ky Med Assoc* 101(7):280-287, 2003.

Transplantation

- Chen C, **Reddy KS, Johnston TD, Khan T, Ranjan D**. Vitamin E inhibits cyclosporin A and H(2)O(2) promoted Epstein-Barr Virus (EBV) transformation of human B cells as assayed by EBV oncogene LMP1 expression. *J Surg Res* 113(2):228-233, 2003.
- Ranjan D**, Chen C, **Johnston TD, Reddy KS, Khan T**, Nagabhushan M. Curcumin inhibits mitogen stimulated lymphocyte proliferation, NF-kappa-B activation and IL-2 signaling. *J Surg Res* 37(103):272, 2003.
- Reddy KS**, DFavies D, Ormond D, Tuteja S, **Lucas BA, Johnston TD**, Waid T, McKeown JW, **Ranjan D**. Impact of acute rejection episodes on long-term graft survival following simultaneous kidney-pancreas transplantation. *Am J Transplant* 3(4):344-349, 2003.
- Reddy KS, Mastrangelo M, Johnston TD, Khan T**, Waid T, McKeown W, **Lucas B, Ranjan D**. Outcome following living donor kidney transplantation using kidneys procured laparoscopically. *Clin Transplant* 17:44-47, 2003.
- Reddy KS**, Stablein D, Taranto S, Stratta RJ, **Johnston TD**, Waid TH, McKeown JW, **Lucas BA, Ranjan D**. Long-term survival following simultaneous kidney-pancreas transplantation versus kidney transplantation alone in patients with type 1 diabetes mellitus and renal failure. *Am J Kidney Dis* 41(2):464-470, 2003.
- Romero AL, **Reddy KS, Johnston TD**, Waid TW, McKeown J, **Khan T**, Karounow D, Doukas M, Samayoa L, **Ranjan D**. Simultaneous kidney-pancreas transplantation in a patient with small lymphocytic lymphoma. *Transplantation* 75(3):414-416, 2003.

Urology

- Polsky EG, Lele SM, Holley P, Geissler R, **Rowland RG**. Primary malignant mesothelioma of the penis. *Urology* 62(3):551xv-551xvii, 2003.
- Rowland RG**. Testicular malignancies—high chance of cure—continuing opportunities to refine treatment. *J Urol* 170:1168, 2003.



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February-March Grand Rounds

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

Feb 11	Bernard R. Boulanger, M.D. Assoc. Professor of Surgery, Assoc. Chief of Staff Division of General Surgery	The Selective Management of Penetrating Torso Injuries
Feb 18	Brian D. Rinker, M.D. Assistant Professor Division of Plastic Surgery	Replantation... and Beyond
Feb 25	Richard H. Bell, Jr., M.D., F.A.C.S. Loyal and Edith Davis Professor Chairman, Department of Surgery Northwestern University	The Surgical Management of Chronic Pancreatitis
March 3	Sajjad H. Rizvi, M.D. Cardiothoracic Fellow Division of Cardiothoracic Surgery	Surgery for Advanced Lung Cancer-Stage IIIA
March 10	Patrick C. McGrath, M.D., F.A.C.S. Professor & Chief, Section of Surgical Oncology Director, Comprehensive Breast Care Center	Surgical Oncology: Lessons Learned
March 17	Randy M. Stevens, M.D. Chief Surgical Resident Division of General Surgery	Venous Thrombosis
March 24	Joseph M. Valentino, M.D., F.A.C.S. Associate Professor Division of Otolaryngology	Traumatic and Iatrogenic Injury of the Larynx and Trachea
March 31	Jeffrey P. Gold, M.D. Professor, Cardiovascular and Thoracic Surgery Professor, Department of Pediatrics Albert Einstein College of Medicine	Remembering 9-11: Lessons for the Future and Visions of the Past