Creating the Future

Presented by Jane E. Henney, MD
Senior Vice President and Provost for Health Affairs
Noon, Wednesday, April 19, 2006
Kresge Auditorium

Refreshments Provided
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Once again I’m proud to present an update of the progress we have made at the Academic Health Center over the past year.

To say that it has been a year of challenges would be an understatement. However, we have been able to turn each challenge we found into an opportunity.

Upon reflection, it has definitely been a year of growth. Our enrollments and grant holdings have increased. We have expanded in faculty, programs and services. We have also witnessed the tremendous progress we have made with the MSB renovation project and construction of the CARE/Crawley Building.

We are working ever closer with our colleagues on the West Campus on our mutual UC|21 goals, and are strengthening and improving our relationships with University Hospital and the Health Alliance. We are grateful for our donors who have expressed their confidence in our work by their generous gifts.

Perhaps in no other time in its history has our Academic Health Center experienced so much change. From the daily services and innovative initiatives our physicians provide, we are able to make a profound difference in the lives of people throughout this region and beyond.

On a daily basis our scientists continue to receive unprecedented recognition by being published in the most pre-eminent scientific and academic publications. That outstanding work prompts the popular media to seek them out to explain their discoveries in language that a world hungry for health-care information understands. From the Genome Research Institute’s discoveries into the causes of obesity, described in detail in Germany’s popular Der Spiegel, to Dr. Daniel Hassett’s progress toward a treatment for cystic fibrosis, featured prominently on the BBC World Service, to stories about our work published by science and health Web sites from the Americas to Europe to Asia, the University of Cincinnati is achieving increased recognition, both around the block and across the globe.

There is so much to tell, that today’s presentation and the accompanying “Creating the Future” report cannot cover it all adequately. We have tried to capture many of the achievements and successes from 2005 in this publication. Please take a few minutes and leaf through these pages. I promise that you will be quite impressed at what you and your colleagues have accomplished.

Thank you all for your contributions in making us what we are today, and I look forward to our work together in the days ahead.

Jane E. Henney, MD
Senior Vice President and Provost for Health Affairs
Elizabeth King, PhD, Dean

Place Students at the Center
Enrollment data supplied by the Office of Institutional Research (Figure 1.0)

- The college’s FTE enrollment increased by 33.0 percent from fall 2003 to 2004 (i.e., 566 students to 753 students).
- The college’s overall headcount enrollment increased by 42.1 percent from fall 2003 to fall 2004.
- The number of first time freshman from fall 2003 to fall 2004 increased by 33 percent (80 to 106 freshmen).
- The number of transfer students increased from 37 to 2003 to 117 in 2004 (an increase of 216 percent).

Began implementation of retention plan.

Increased admission standards.

Figure 1.0

CAHS Enrollment 1998 - 2004

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Undergraduate Enrollment</th>
<th>Total Graduate Enrollment</th>
<th>Total College Enrollment</th>
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<tr>
<td>2004</td>
<td>610</td>
<td>213</td>
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</tr>
</tbody>
</table>
Grow Our Research Excellence

- Hired the college’s first Millennium Scholar, Dr. Debra Krummel, to support research in maternal and child nutrition.
- Approximately 31 percent of the faculty received external grant funding for a total of $737,261.
- Approximately 43 percent of the faculty received internal grant funding for a total of $92,495.
- Approximately 46 percent of the faculty were partially funded on grants outside the college, including OBR, for a total of $95,866.
- From 2003 to 2005, the number of grants submitted increased by 30 percent and the number of faculty submitting increased by 23 percent. (Figure 2.0)

Figure 2.0
Grant Submissions
Increase Faculty Scholarly Activity
Faculty had 18 journal articles published and 14 are in press.

Faculty made a total of 48 national and 21 state and local presentations.

(Figure 3.0.)

Achieve Academic Excellence
Three distance learning programs were successfully implemented: (Figure 4.0)
- Summer 2004—BS in Clinical Laboratory Sciences.
- Winter 2005—BS in Health Information Management.
- Summer 2005—MS in Speech Language Pathology.
The proposal to transition from the master’s in physical therapy to the clinical doctorate in physical therapy has been completed and forwarded to the Ohio Board of Regents for consideration and review.

A new Physician Leadership seminar series began in the fall quarter 2005, sponsored by Humana, with focus on topics such as economics of health care and health policy, consumer-centric practice management, cost and quality transparency and health-sector finance. Twenty physicians were enrolled.

Accreditation
- Received eight-year reaccredidation by the American Board of Genetic Counseling.
- Received developmental accreditation for the Coordinated Program in Dietetics from ADA.
- Prepared self-study for accreditation in Health Information Management.

Forge Key Relationships and Partnerships
- Completed four new articulation agreements with Sinclair College.
- Received approval to grant credit to transfer students holding an associate degree for UC’s Breadth of Knowledge requirements within UC’s General Education Program.
• Continued partnership with Woodward Career Technical High School, including continued implementation of Kenneth Donnelly University of Cincinnati Audiology Clinic.
• The college is one of 10 health profession schools participating on a FIPSE grant with the Community Campus Partnerships for Health to support community-engaged scholarship. Ours is the only allied health school participating in this national study.

Establish a Sense of Place
• Converted classroom 316, with 16 computer workstations, into an AV-capable classroom equipped with movable desks. Redistributed the 16 workstations among current classrooms and within newly developed lounge areas for student space.
• Combined rooms 328 and 330 into a larger multipurpose classroom by removing the wall that separates the two rooms.
• Retrofitted the current open computer lab to serve as both an open lab and a computer classroom. This will nearly double computer classroom space from 16 workstations to approximately 30 workstations.
• Updated room 369 to a standard AV-capable classroom.
• Converted current graduate lab, room 335A, into a study space, group project space and quiet space for both undergraduate and graduate students.
• Upgraded student lounge on the first floor to include more comfortable furniture and computer workstations.
• Added swipe card access to room 318, i.e., French East faculty media room, and the 135 lecture hall, to provide 24/7 access to faculty.
• Renovated newly assigned space on the third floor for a faculty research laboratory.

Create Opportunity

Budget
• Implemented second year of five-year reallocation of UGS dollars.
• Used developed formula for reallocating operating dollars.
• Received second $50,000 from the Health Alliance to support a faculty member for the newly developed sonography program.
• Requested approximately $1 million of new funding to support the college’s growth and continue to develop the infrastructure of the college.
• Received $137,596 from the Graduate Tuition Incentive Program.
COLLEGE OF MEDICINE

David Stern, MD, Dean

Overview
The College of Medicine is emphasizing interdisciplinary initiatives in several focus areas in order to guide its future development: cancer, cardiovascular, neuroscience, metabolic disorders, women’s health and inflammation/immunity. Current efforts include
• Formation of working groups in these areas to assess strengths, weaknesses, opportunities, needs, etc (neuroscience, cancer so far)
• In the future, allocation of resources

Other initiatives include:

Working closely with UC Physicians, University Hospital and the Health Alliance of Greater Cincinnati to coordinate clinical recruitment efforts and allocation of resources. All of our major initiatives are being carried out jointly.

Formation of a Center for Clinical Research Training, intended as a catalyst for:
• Grant applications (K awards, R awards, training grants and other grant opportunities, especially in relation to the National Institutes of Health (NIH) roadmap
• Mentorship of clinical/translational investigators, including establishment of a dean’s scholar program of starter grants
• Enhanced accessibility and expansion of the infrastructure for clinical research

Reinvigoration and renaming of Office of Minority Affairs with creation of an associate dean position and securing of commitments from outside organizations for medical student scholarships.

Selection of the new chairperson for environmental health

Organization of the UC Cancer Center and initiation of a fundraising campaign. This has become a priority for the dean’s office.

Joining the Institute for Healthcare Improvement as a full member. In this connection, we are planning a new educational module involving several colleges in performance improvement and patient safety. We are also developing a medical student education component related to our chronic-care collaboratives (thematic areas: asthma, diabetes and depression).
Initiation of a college-wide strategic planning exercise beginning with a financial review of the departments this January.

Creation of a center for lipid research in the department of pathology
Modification of the arrangement with LabOne/Quest so that compensation to the pathology department is increased.

Recruitment of a new chief of the cardiology division.

Initiation of a medical-center-wide planning effort with University Hospital and UC Physicians in cardiovascular medicine

ACADEMIC AND RESEARCH

OFFICE OF MEDICAL EDUCATION

Curricular Innovations and Enhancements

Medical Student Scholars Programs
In an effort to recognize the diversity of student interests at the college of medicine and to allow highly motivated students the option of exploring a medically related topic in depth throughout their four years in medical school, we began offering first-year medical students an exciting new opportunity—the Medical Student Scholars Programs (MSSP). Students accepted into an MSSP path will participate in clinical and didactic activities that go beyond the required components of the medical school curriculum. Students successfully completing all MSSP requirements, and who remain in good standing in medical school, will have the MSSP distinction mentioned during the Honors Day ceremony when they are awarded their medical degree. It will also be noted in their dean’s letter for application to residency training programs.

The six current MSSP paths are
• Child and Adolescent Health Medical Students Scholars Program
• Geriatric Medical Students Scholars Program
• International Health/Care of Underserved Populations Medical Students Scholars Program
• Neuroscience Medical Students Scholars Program
• Nutrition Medical Students Scholars Program
• The Art of Medicine Medical Student Scholars.

Evidence-Based Medicine Longitudinal Curriculum
In spring 2005, a multidisciplinary team began working on a longitudinal, evidence-based medicine curriculum for medical students. Each year’s goals and learning objectives build
upon the previous year’s, becoming more and more clinical in nature, but all are rooted in the five A’s of evidence-based medicine: Asking, Assessing, Acquiring, Appraising and Applying. The curriculum combines lectures, lab and self-directed learning to provide students with multiple modes of learning activities. Implementation began with the second-year students in fall 2005. First year students will participate in spring 2006.

**Business of Medicine Elective**

This course is codirected by John Schroder, MD, and Tip Ford, business administrator in the department of surgery. Course faculty come from the College of Business, the College of Medicine and UC Physicians. The course curriculum includes topics such as:

- The role of business management in a medical practice
- Financial management
- Practice operations
- Revenue cycle (billing and collecting)
- Human resources Legal concerns (employment contracts for physicians and malpractice matters)
- The financial impact of quality programs and associated medical errors
- Hospital/physician relationships (includes a visit with the Health Alliance CEO and CMO)
- Industry/physician relationships

The students prepare a medical business case study, which is presented on the last day of the course to a panel of the faculty.

**Faculty Development in Medical Education Research**

The Office of Medical Education has developed a seed grant program to stimulate research in medical education. Recipients of funding for 2005–2006 were:

- D.J. Lowrie, PhD (cell biology)—Web-based instruction in embryonic folding
- Pranav Sheth, MD (dermatology)—Web-based instruction in dermatology
- Laura Wexler, MD (cardiology)—Web-based ECG instruction
- Toni Robinson-Smith, MD (pathology)—Web-based instruction in diseases of the female reproductive organs
- Ron Millard (pharmacology) PhD—Effect of simulator-based learning on retention of principles of autonomic pharmacology by second-year medical students
- Stewart Wright, MD (emergency medicine)—Evaluation of high-fidelity medical simulation training for flight surgeons
Disaster Preparedness Curriculum
On January 3, 2006, the College of Medicine presented a one-day program for all third-year medical students on the topic of disaster response training. The planning committee based this program on a natural disaster scenario. The program format featured faculty members with extensive personal experience lecturing on general disaster response, chemical, nuclear and blast, biological, viral and flu considerations.

Immediately before small-group discussions, students were given a scenario in which a severe tornado moving through western Hamilton County caused extensive damage to water supplies, schools, communications, chemical plants, hospitals, schools and neighborhoods. To facilitate discussion, student groups were asked to consider how the disaster would affect delivery of services in four sectors: pre-hospital, hospital, public safety and public health. A community expert in each of these areas was available to help students consider problems associated with such a large-scale catastrophe. Following the group discussions, the program concluded with a panel of the community experts discussing problems identified earlier by the student groups.

Center for Competency Development and Assessment (CCDA)
During the past academic year, the CCDA has seen tremendous growth in the breadth and depth of programs. In addition to all of the grant-supported projects, the CCDA continues to provide a wide array of educational opportunities using standardize patients and IT resources. Activities include the Standardized Patient Instructor (SPI) program, introduced this year. About 20 participants were certified to serve as small-group facilitators for Introduction to the Normal Physical Exam course within Clinical Foundations of Medical Practice 1, which began in late 2005.

Instructional Technology
The Instructional Technology Center partnered with D.J. Lowrie, PhD, to produce a multimedia module on the topic of embryonic folding (http://aitlvideo/aitl/lowrie/final.swf), which is currently in use by first-year medical students as part of a medical education study. The module includes use of 3D modeling, voice and user-controlled animations. ITC also collaborated with Laura Wexler, MD, to produce five multimedia modules that present an introduction to electrocardiography. These will be used in January 2006 by second-year medical students as part of a medical education study.

The Reproductive Physiology Series, comprising 64 multimedia modules organized via Blackboard, was deployed with the class of 2008 in February 2005, and an education study around the modules was created. The ITC oversaw testing of the modules by 82 first-year medical students during the reproductive block of the physiology course. The 64 reproductive physiology multimedia modules were submitted to both the HEAL Web repository for digital health-education materials (http://www.healcentral.org) and OhioLINK.
DMC (http://dmc.ohiolink.edu). The modules were showcased as the “featured resource” at HEAL from March to August 2005.

Medical Student Presentations
Nineteen internal medicine residents and medical students participated in the Midwest Regional Society of General Internal Medicine meeting, and two medical students gave oral presentations. In addition, one medical student gave an oral presentation and 26 medical students gave poster presentations at the Ohio American College of Physicians meeting. Five medical students received awards for their poster presentations. The faculty of the department of internal medicine serve as excellent mentors for the students and residents.

Faculty Recognition
- LeAnn Coberly, MD, was a finalist for the best research poster at the National Clerkship Directors in Internal Medicine meeting.

- Joseph Broderick, MD, and Brett Kissela, MD, planned and directed the Annual Leadership Course for the Association of University Professors of Neurology. This is attended by chairs, residency program directors and medical student clerkship directors from all departments of neurology across the United States.

- Dawn Kleindorfer, MD, started and coordinated a multi-departmental neuroscience pathway, with assistance from John Quinlan, MD, Bruce Giffin, PhD, and many others from the departments of neurology, neurosurgery, PM&R, neuroradiology, and child neurology at Cincinnati Children’s Hospital Medical Center.

- Peter Stern, MD, director of the department of orthopaedic surgery, serves as vice chair of the Accreditation Council for Graduate Medical Education Orthopedic Surgery Residency Review Committee.

- Phil Diller, MD, PhD, program director for the Family Medicine Residency Training program, was named as the 2005 Ohio Academy of Family Physicians Educator of the Year.

- Henry Nasrallah, MD, associate dean and professor of psychiatry and neurology, has won the Psychiatric Times Teacher of the Year Award for his dedication to mental health education. He was recognized at the 18th annual U.S. Psychiatric and Mental Health Congress in Las Vegas. Dr. Nasrallah has published more than 300 articles and 10 books. He also serves as editor-in-chief for Schizophrenia Research and the Journal of Psychotic Disorders.
Graduate Medical Education

Business of Medicine
During the 2004–2005 academic year, the surgery department experimented with adding business of medicine topical lectures to its resident and fellow educational experience. This lecture series was developed by the surgery department’s business administrator, Tip Ford. The lecture series covered most of the major business topics encountered in a medical practice, including medical practice budgets, patient accounting revenue cycle (billing and collected patient bills), negotiations with third-party payers, physician employment and professional service contracts, professionalism in the workplace and executive leadership. The lecture series was so well received by the surgery residents and fellows that it was made available to all residents and fellows in the College of Medicine 2005–2006 academic year. Lecture topics have been expanded to include personal financial planning, medical practice marketing, office practice operations, and corporate and business entity legal structures. Other lecture topics will be added over the next 12–18 months.

Dental Center
The first class of residents graduated on June 30, 2005. Having successfully completed the program, all graduates are practicing dentistry in the private sector. The American Dental Association’s Council on Dental Accreditation awarded the Advanced Education in General Dentistry residency program accreditation without reporting requirements, the highest rating. Additionally, the program was cited for seven commendations, a tremendous accomplishment for a new program. The Dental Center received a grant from the Anthem Foundation of Ohio, enabling the center to equip two more operatories, bringing the total to eight fully equipped treatment rooms. In early 2006, residents will participate in the “Give Kids a Smile” program with the Cincinnati Dental Society.

Patient Safety and Quality Improvement Initiatives
The College of Medicine, in conjunction with University Hospital, the Health Alliance and other partners, participates in several national programs for improving education and clinical practice. Greg Rouan, MD, internal medicine, serves as principal investigator for the Achieving Competence Today program through Partnerships in Quality Education, a national initiative of the Robert Wood Johnson Foundation. The Academic Health Center is participating in the Association of American Medical Colleges (AAMC) Academic Chronic Care Collaborative. Mary Clare Hill, MD, anesthesia, coordinates our participation in the AAMC Rapid Response Team Collaborative.

Resident Awards
At the Midwest Regional Society of General Internal Medicine meeting, Alyce Oliver, MD, won first place for her oral presentation. Abigail Byrnes, MD, received fourth place for best paper at the American Association for Cancer Education meeting.
John Mehall, MD, second-year cardiothoracic surgery resident, currently serves as president of the Thoracic Surgery Residents Association. That group, in conjunction with the Thoracic Surgery Directors Association and the CTSNet Web journal, will host the first ever cardiothoracic surgery resident technology symposium in the Center for Surgical Innovation in May 2006.

Andrew Losiniecki, MD, first-year neurosurgery resident, won first place for his lecture, “Costs of the Unhelmeted Motorcyclist: Neurological Injuries and Socioeconomic Losses,” at the Ohio State Neurosurgical Society meeting. Lori Shutter, MD, associate professor of neurosurgery, and Raj Narayan, MD, chair of neurosurgery, worked with Dr. Losiniecki on the project.

**STUDENT AFFAIRS**

**Academic**

Had the highest yield rate of admitted Ohio students and the second highest MCAT score average in over 10 years.

Transitioned to the new AMCAS admissions database and reporting system without any major disruptions in work flows or decreased customer service.

**Underserved Populations**

Cohosted an African-American health-professional reception with the Greater Cincinnati Health Council.

Had the largest number of minority students in the incoming class since 1997.

Sponsored a CMA holiday scholarship banquet for minority medical students.

The Finding and Researching Mycobacteriophages (FARM) program—The Howard Hughes Medical Institute has awarded a two-year, $50,000 grant to a consortium of four biomedical research institutions for a pilot project to encourage middle school students from underserved populations to pursue careers in biomedical science. In July 2006, UC College of Medicine will join three other institutions in sending five middle school students from their ongoing HHMI-funded middle school programs to Duke for a one-week summer science enrichment program on finding and DNA-sequencing mycobacteriophages. The students will follow their summer experience with a science fair project, a FARM workshop and PowerPoint presentations in their local communities. All expenses will be covered by the grant. The grant period is February 1, 2006, through January 31, 2008.

The Pathways to Health Careers programs at College of Medicine are in their 12th year of funding from the Howard Hughes Medical Institute.
One hundred percent of ExSEL graduates and nearly 100 percent of H CARE graduates (minority and disadvantaged students) have graduated from or are attending college.

More than 90 percent of Saturday Science Academy graduates of appropriate age have graduated from high school and about 65 percent have attended or graduated from college. These are Cincinnati Public School students from minority and disadvantaged backgrounds, and many are considered to be “at risk.” The high school graduation rate for Cincinnati Public Schools is less than 50 percent.

Twenty-three Pathways programs alumni are in the fall 2006 College of Medicine applicant pool.

**Technology**
Progress included development, facilitation and incorporation of a new American Medical College Application Service for the applicant pool.

Incorporation of the award letter process, along with the ability to apply online and view loans and scholarships, into the financial aid system.

Enhancement of the Student Information System with such things as more specific evaluation requirements, a student-maintainable student organization Web site and career counseling.

Development of a campus ride-share program, which was adopted as the university standard.

**Student Service**
MCAT Review Course—a model for others: After dozens of requests from premedical advisers across the country, we now share our model for success via an online document, “How to Provide a High-Quality MCAT Course: A Step-by-Step Guide.”

Financial Aid—We have completed a major enhancement of our financial aid processing and record-keeping system. Students now have access to their financial aid records and complete institutional financial aid applications online. Award letters are sent electronically, and students are able to accept or decline their awards online.

In the 2004–05 academic year we processed $21,527,951 in financial aid for 555 students in the College of Medicine.
OFFICE OF RESEARCH AND GRADUATE EDUCATION

Research and graduate education in the College of Medicine remain strong and competitive. The productivity of our departments, programs, students, faculty and staff, as well as their parent committees, contributed to the growth in our academic and research programs. Institutional investments made in support of graduate students, postdoctoral scholars and new faculty, combined with a cutting-edge infrastructure, continue to pay dividends. Continued planning and strategic investments should enhance our ability to achieve ever-increasing levels of excellence in our research and training enterprises.

RESEARCH

Sponsored Program Funding

Researchers throughout the Academic Health Center, including the College of Medicine and Cincinnati Children’s Hospital Research Foundation (CHRF), had another spectacular year for sponsored program activity. The trend of the past 10 years had shown research productivity and funding in a continual incline until 2004. In 2005, however, the health center overall experienced a significant increase over the previous year, sending our indicators back in an upward direction. Growth in sponsored awards across the center is shown in Figure 1. We did not see increases at the level of the past several years, however, due to an overall decline in federal funding of biomedical research. This report provides a brief summary of sponsored program activity. More detailed information can be obtained from the Office of Research and Graduate Education in the College of Medicine.

Overall rankings from the NIH for FY041 placed the College of Medicine 19th nationally among public medical colleges and 42nd among all medical schools for sponsored program awards.

Total sponsored program holdings for the College of Medicine totaled $134.75 million* in 2005, an increase of 10 percent over last year’s total ($122.4 million). The breakdown for FY05 shows research at $125.94 million, instruction at $8.3 million and public service at $5.16 million. When totals are factored in from the colleges of pharmacy ($1.1 million), nursing ($1.4 million) and allied health ($0.7 million), the Hoxworth Blood Center ($0.71 million), Medical Center Libraries ($0.43 million) and the senior vice president and provost for health affairs ($2.48 million), the Academic Health Center total comes to $141.5 million, up 9.9 percent from FY04 ($128.8 million). CHRF holdings totaled $123.97 million, bringing the combined sponsored program holdings for the Academic Health Center to $265.5 million. When we factor in grants and contracts at other affiliated institutions (see “Other Medical Centers” in Figure 2) that are staffed by UC faculty, such as the VA Medical Center ($3.1 million), the Shriners Hospital for Children ($3.6 million), as well as funds from

*NIH rankings for 2004 were published in May 2005; 2005 rankings will be available in May 2006.
** Includes Barrett Center, Administration, and Biomedical Engineering
sponsored research conducted in clinical trials ($8.2 million), total research-related activity in the entire Academic Health Center complex for 2005 is $280.3 million, an increase of 7.8 percent over FY2004 (Figure 2).

Figure 1

Medical Center Growth Chart
(1999-2005)

Figure 2

Sponsored Program Awards\(^a, b\)

\(^a\) Awards in $millions
\(^b\) Direct plus indirect costs

* Data for 1990 not separated out for UC Academic Health Center and CHRF
** Medical Center (Academic Health Center) includes the colleges of medicine, nursing, allied health and pharmacy, Hoxworth, the Barrett Center, the office of the senior vice president and provost for health affairs and Medical Center Libraries
*** Other Med Ctr includes the VA, Shriners and clinical trials (for 1999–2005)
Research Infrastructure
The College of Medicine received a prestigious award in 2000, which was successfully renewed for 2005, from the Howard Hughes Medical Institute ($2 million for five years) as part of this agency’s Research Resources for Medical Schools competition. This grant and significant investments from the College of Medicine and CHRF have established new core facilities for genomics/gene array, proteomics and bioinformatics. The College of Medicine continues improvements in its research infrastructure, including world-class facilities for the production of unique animal models of human disease, DNA sequencing and polymorphism analysis, mouse phenotyping, biostatistical support, gene targeting, structural biology, gene/protein expression, bioinformatics, high-field imaging, BSL3 biocontainment, a Center for Genome Information and support for health policy and outcomes research.

Departmental Rankings
The basic science departments at the College of Medicine continue to be very strong and, as a group, continue to rank near the top 20 percent in the nation for sponsored program support per faculty member. The clinical departments also rank in the top 20 percent for grant support per faculty member. Updated departmental rankings for sponsored program support per faculty member can be found in the AAMC’s publication, IPS Basic and Clinical Departments Data Report for the University of Cincinnati College of Medicine, when released in spring 2006.

Most recent data indicate four departments ranked in the top 10 of their peer groups at all public medical schools (Figure 3) in terms of NIH grant holdings. Molecular genetics, biochemistry and microbiology ranked first (of 26), environmental health, second (of 26), neurology fourth (of 40), and pathology ninth (of 58). The top 10 research-intensive departments at the College of Medicine in terms of NIH grant support are internal medicine, molecular genetics, environmental health, psychiatry, neurology, pathology, cell biology, surgery, pharmacology and physiology (Figure 4). Research-intensive departments (>500,000 in funding) showing the greatest improvement in terms of national rankings with NIH support are molecular genetics, ophthalmology and psychiatry.
Figure 3

Departmental National Percentile Rankings among Public Medical Schools\(^a\)
(Top 10 Departments at UC College of Medicine, Year 2004)

\(^a\) Based on Sponsored Program Award totals as reported by NIH for 2004

Figure 4

NIH Sponsored Awards by Department\(^a, b\)
(Top Departments at College of Medicine, Years 2002-04)

\(^a\) Awards in $millions
\(^b\) As reported by NIH for 2002–04
Other Research Accomplishments

Grant Awards:
- $19.8 million to cardiology for the genetic study of congestive heart failure
- $19 million from the NIH to neurology to coordinate a five-year international multi-center study for alternative treatments for acute stroke
- $8.6 million from Biomedical Research Technology Transfer (BRITT) for the Center for Computational Medicine
- $8 million to environmental health from the National Institute of Environmental Health Sciences (NIEHS) to operate a hazardous waste worker training program through 2010.
- $7 million from NIOSH to environmental health to operate its Education and Research Center (ERC) through 2010. UC is one of only 16 NIOSH funded ERC programs in the United States.
- $3 million to neurology from the National Institute of Neurological Disorders and Stroke (NINDS) for a study on familial intracranial aneurysm
- $2 million from the NIH’s Office of Research on Women’s Health to OB/GYN for Building Interdisciplinary Careers in Women’s Health (BIRCWH).
- $1.9 million to internal medicine from the Health Resources and Services Administration (HRSA) for an AIDS clinical trials group

Donations:
- $30 million from the Lindner family to build a behavioral health center in Mason, Ohio, for research and treatment of mental illnesses.
- $12 million from two donations to the colleges of pharmacy and nursing to be used for education and research
- $2 million donation for pediatric ophthalmology

Other Accomplishments:
In February 2005, Robert Cohen, MD, answered the 25,000th question on NetWellness. It was established 10 years ago.

Elwood Jensen, PhD, won the Lasker Award for his research in treatment of breast cancer.

Another important index of research productivity is the publication of research findings in peer-reviewed journals. Literature searching and citation analysis reveals that publication rates, which showed significant growth over the past several years, rose sharply in 2005 (Figure 5). This year, College of Medicine researchers contributed 1,203 senior-authored research manuscripts in the top-ranked, peer-reviewed biomedical journals, a nearly 50 percent increase over 2004. Clearly, our basic and clinical scientists are translating knowledge gained from both laboratory and clinical settings into useful information.
Internal Nominees for Extramural Awards
The Office of Research and Graduate Education annually administers numerous internal competitions for prestigious national awards. The following summarizes the nominees selected for the past year:

- Karen Knudsen, PhD, cell biology, and Zeina Nahleh, MD, internal medicine: Damon Runyon Scholar Award
- David Plas, PhD, genome science: V Foundation for Cancer Research
- Marielle Kabbouche, MD, pediatrics: Robert Wood Johnson Physician Faculty Scholars
- Tim Cripe, MD, PhD, pediatrics, and Prabir Roy-Chaudhury, MD, internal medicine: Burroughs Wellcome Fund Translational Research Award
- Brian Gebelein, PhD, pediatrics, and David Plas, PhD, genome science: Searle Scholars Program for 2006
- Jay Hove, PhD, genome science: Pew Scholars Award in Biomedical Sciences
- Marsha Wills-Karp, PhD, pediatrics: Autism Speaks
- Stephen Wilson, MD, internal medicine: Damon Runyon Clinical Investigator Award
- Angela Drew, PhD, genome science: Mary Kay Ash Innovative/Translational Cancer Research Award for 2006
Postdoctoral Training
The Postdoctoral Scholars Advisory Committee, established in 1998, continued to meet regularly, addressing issues such as establishing a uniform title for fellows and improvements in their benefits program. There are currently 233 postdoctoral fellows at the Academic Health Center. The departments of pediatrics, molecular genetics and psychiatry support the largest number, respectively.

The postdoctoral Web site (http://www.med.uc.edu/postdoc) now contains the University Policy on Postdoctoral Appointments and Benefits and links to useful items such as NIH training grant opportunities, the University Job Opportunities Update and other Web sites dedicated to postdoctoral issues.

In an effort to highlight the research contributions of postdoctoral scholars, the Office of Research and Graduate Education once again sponsored the annual Postdoctoral Scholars Research Forum in May 2005.

College of Medicine Research Web Site (www.research.med.uc.edu)
The College of Medicine research Web site, regularly updated by the Office of Research and Graduate Education, continues to be one of the most popular academic research sites in the country.

The tools of eProfessional, a project of AIT&L, continue to become a more integral part of the research Web site. eXpertise is a search tool that potential students and other visitors, as well as UC faculty and students, can use to search for research expertise at the Academic Health Center. It is the only search tool on our Web site that allows users to search the entire center by keywords descriptive of research focus areas. It helps potential trainees or collaborators explore the diversity of research available at UC and identify specific investigators in any research area. It also helps us direct funding alerts to specific faculty based on research interests. For its next phase, eProfessional will start the development of individual home pages, CVs, and biosketches for our faculty and researchers. Separately, a customizable portal is under development that will allow the faculty to access/edit eProf information, keep track of their training requirements and sign up for eCourses, receive funding alert notifications, and take advantage of many other Web-based services at the Academic Health Center.

Departmental Research Reports
Each department was invited to submit a summary of major research accomplishments and the following have done so:

Anesthesiology
Chaired by William Hurford, MD, the department of anesthesiology continues its commitment to building a strong academic program. In 2005, the department created a
multidisciplinary Pain Research Center for the study of pathologic pain. Several aspects are being pursued in this NIH-funded center, which is under the direction of Dr. Jun-Ming Zhang, MD, who joined the department last spring. Current areas of research include: 1. genetic analysis of pathologic pain; 2. behavioral measurements of pain behaviors in rodent models; 3. analyzing changes in electrical properties of neurons that play an important role in the development of pain; and 4. molecular analysis of the role of inflammation and cytokines in pathologic pain states. Through this newly established center we have submitted a major NIH proposal to study inflammation as a component of pathologic pain and are currently preparing three additional applications. Such research is important in helping clinicians seek more effective methods to alleviate intractable pain, which is estimated to result in the loss of 500 million work days and an economic cost of over $100 billion annually.

**Cell Biology, Neurobiology and Anatomy**

Faculty in the department of cell biology, neurobiology and anatomy made national and international contributions in research, service, and teaching. For teaching, kudos goes to Bruce Griffin, PhD, who received the Abby Cohen Award for the most outstanding teacher in the entire university.

Several of our faculty have performed service at the national level. Faculty who serve on editorial boards include Sohaib Khan, PhD (*Cancer Research* and *Steroid*), Karen Knudsen, PhD (*Cancer Research* and *Molecular Endocrinology*), Eric Knudsen, PhD (*Journal of Biological Chemistry*). Peter Stambrook, PhD, also serves as editor-in-chief of *Mutation Research*. Several faculty served on NIH, NSF and DOD study sections, and Nira Ben-Jonathan, PhD, chaired the NIDDK-B Diabetes, Endocrinology and Metabolism Study Section. Dr. Stambrook also chaired the steering committee of the multi-institutional, NIEHS-supported Comparative Mouse Genome Centers Consortium (CMGCC) and is also the current president of the Environmental Mutagen Society, an international society that focuses on mechanisms by which DNA and cells are damaged and how they are repaired. Lastly, Dr. Kahn was asked to co-organize an important Cold Spring Harbor meeting on “Nuclear Receptors and Disease” with Keith Yamamoto, PhD, of UCSF, and Ronald Evans, PhD, Salk Institute.

In research, several faculty members gave plenary lectures and symposium talks at national and international forums. For the second successive year, Dr. Karen Knudsen gave a plenary lecture at the American Society for Clinical Oncology and Dr. Kahn gave an invited symposium talk on nuclear receptors at the Karolinska Institute, Stockholm. Elwood Jensen, PhD, received an honorary degree from the University of Athens.

**Dermatology**

The dermatology department hired Ana Luisa Kadekaro, PhD, as research instructor. Zalfa Abdel-Malek, PhD, learned that her grant application titled “Discovery of Alpha-MSH Analogs for Skin Cancer Prevention” will be funded by the National Cancer Institute for five years beginning Dec. 1, 2005. The direct cost is $1.4 million and the total cost, $2.1 million.

Prashiela Manga, PhD, received a University Research Council Grant starting January 1,
2006. Pranav Sheth, MD, has received a $4,350 grant from the Office of Medical Education’s research fund for 2005–06 for his proposal entitled “Web-Based Instruction in Dermatology.” Pranav Sheth, MD, Leann Coberly, MD (internal medicine), Rick Ricer, MD (family medicine), and Karen Marsh (Instructional Technology Center) have received a Faculty Learning Community grant. Funded by the Faculty Development Council, this grant will provide the opportunity to extend the use of the multimedia modules developed for the educational grant for medical student education. The Centers for Disease Control and Prevention awarded Charles Heaton, MD, a grant for the STD-HIV Prevention Training Center, one of only 10 such centers in the United States.

Environmental Health
The department of environmental health successfully recruited a new chair, Shuk-mei Ho, PhD. She brought with her a highly competitive research team and six federally funded grants to continue research in areas related to cancers of the prostate, breast and ovary. Dr. Ho is the current president-elect of the Basic Urological Society (2005–06) and the chair of the National Toxicology Program. She recently reported estrogen- and progesterone-regulated transcriptomes in ovarian surface epithelial cells. These findings provide new insights into the risk of hormone replacement therapy on ovarian cancer development. Carol Rice, PhD, the director of the Midwest Consortium for Hazardous Waste Worker Training, has received $8 million in new funding from the NIEHS to continue to operate a hazardous waste worker training program through 2010. The consortium develops and evaluates training and education programs for hazardous waste workers and emergency responders in a nine-state region that employs 20 percent of all hazardous waste workers and emergency responders in the United States. Scott Clark, PhD, Paul Succop, PhD, Bill Menrath and Sandy Roda received over $500,000 from HUD’s Office of Healthy Homes and Lead Hazard Control program to examine long-term impact of soil lead hazard control. Several of our faculty members have secured new funding to support innovative research projects. Alvaro Puga, PhD, received new funding to investigate the adverse health effects resulting from exposure to complex mixtures of polycyclic aromatic hydrocarbons (PAH) and chromium. George Leikauf, PhD, who recently agreed to chair the Lung Injury, Repair and Remodeling Study Section of the NIH-CSR, was awarded a new grant to evaluate the benefits of targeting the TGFa/EGFR signaling pathway to ameliorate acute lung injuries. Jagjit Yadav, PhD, and Jim Lockey, MD, were awarded new funding to continue their study of mycobacteria as causal pathogens for hypersensitivity pneumonitis in exposed machine workers. Amit Bhattacharya, PhD obtained a new grant to develop and evaluate a novel and yet economical technique to detect postmenopausal osteoporosis.

Kermit Davis, PhD, has won the “2005 Promising Young Scientist Award” sponsored by the International Society of Biomechanics. The award recognizes the potential of a young researcher in biomechanics. David Warshawsky, PhD, in collaboration with Joseph Landolphi, PhD, of the University of Southern California, coedited the book “Molecular Carcinogenesis and the Molecular Biology of Human Cancer,” which was published by CRC press.
The Breast Cancer Registry of Greater Cincinnati, headed by Susan Pinney, PhD, continued to receive donations from various local advocacy groups. The department announced the Barkley, Bell and Bingham Endowment Fund.

The purpose of this fund is to support educational and professional activities of research staff who have shown a dedication to occupational health and safety research. Dr. Clark and Dr. Bhattacharya successfully renewed the Multi-University Pilot Research Training Grant under ERC and sponsored by NIOSH. The program is designed to build research capacity of young investigators in occupational health and safety research in collaboration with nine regional universities. Dr. Grace Lemasters’ Molecular Epidemiology in CHRF Environmental Health training grant is likely to be renewed. This highly successful program has been training predoctoral students, postdoctoral fellows and postdoctoral pediatric residents seeking an MS degree in epidemiology.

**Genome Research Institute and Genome Science**

The institute, which opened in October 2003, now has over 40 faculty investigator laboratories and 350 total staff. David Millhorn, PhD, retired in October 2005 as director of GRI, chair and professor of genome science. George Thomas, PhD, professor of genome science, has been named interim director and chair. Research focuses on obesity, diabetes, cardiovascular disease and cancer. Efforts have been made to fully integrate the research programs at GRI across departments focusing initially on research related to obesity and diabetes. During 2005, the GRI completed the establishment of core facilities for genomics, proteomics, bioinformatics, animal systems, protein production and medicinal chemistry, funded by the Biomedical Research and Technology Transfer grant, Hayes Fund, UC and generous donations from Procter & Gamble Pharmaceuticals. GRI has established active partnerships with Children’s Hospital Research Foundation (CHRF) to develop the Center for Computation Medicine and with the Ohio Supercomputer to develop the Third Frontier Network, which will bring new research tools and instruction to Ohio’s academic, government and industry institutions. The GRI has hired Ruben Papoian, PhD, as director of drug discovery, and, in collaboration with Procter & Gamble Pharmaceuticals, Evotec OAI, and CHRF submitted proposals to the state of Ohio for a Wright Center for Drug Discovery and a Center for Novel Obesity Therapies. The university and CHRF have supplied Wright funds to establish a high throughput screening center at GRI. Evotec, a global leader in screening and drug collaborations, will locate personnel at GRI to start up the screening operation as a North American sales site and to begin establishing collaborations with investigators for new therapeutic discoveries.

GRI continues its collaboration with the Air Force Research Laboratory at Wright-Patterson Air Force Base. During the past year this effort has yielded $3 million in two new grants to study ALS incidence among war veterans and combat fatigue.

The Genome Science Department located at the GRI now has 15 faculty members recruited from around the world. The faculty are establishing independent laboratories for basic biomedical research and directing the GRI core facilities. Genome Science has recruited Drs.
Jorge Moscat and Maria Diaz-Meco from the Spanish Biomedical Institute in Madrid, who will bring with them a major cancer-focused basic research program. Genome Science secured new Hayes funding of $1 million 2004–05 to expand the Proteomics Core. NCI Program grants totaling $4 million per year on Chemoprevention of Lung Cancer and Genetic Epidemiology of Lung Cancer, headed by Marshall Anderson, PhD, are being run from the department. Genome Science received additional funds to support two Oak Ridge postdoctoral awards, funded by the Air Force Research Laboratory, and other similar awards from the American Heart Association, the Swiss Cancer League and Novartis Pharmaceuticals.

**Hoxworth Blood Center**
In 2005 Ronald Sacher, MD, worked as a consultant with the UCSF, who were awarded a contract from the NHLBI for close to $5 million for an HTLV Outcomes study. Dr. Sacher was also involved in a Retrovirus Epidemiology Donors. One paper is in press and two posters relating to research into blood donors have been presented.

The Hoxworth Research Division had four papers published, including a *Nature Medicine* article on Rac GTPases, and six papers in press, with Jose Cancelas, MD, PhD, as first or senior author. Eight abstracts or oral presentations on hematopoiesis were delivered at national meetings and a further eight abstracts and posters were presented at other meetings. There were eight ongoing clinical research trials in 2005, including a study to evaluate yield and *in vitro* quality of plasma and red blood cells obtained after automated separation of whole blood units by the Atreus whole blood system, an evaluation of the Trima systems to predict postprocedure platelet count vs. actual donor platelet counts, and a study to determine autologous recovery of radiolabeled RBC units obtained after automated separation of whole blood by the Atreus system and stored for 42 days. Two grants were awarded. The first was from the National Blood Foundation to study Rac in stem cell mobilization, the second from the Leukemia and Lymphoma Society to study Rac in chronic myelogenous leukemia, with Dr. Cancelas as principal investigator. The transplantation immunology division, under Brian Susskind, PhD, produced nine abstracts and four publications during 2005. Several projects have been submitted, including immunogenicity after cryopreservation of RBC with EGCG, transfusion related acute lung injury (TRALI), human neutrophil antigen and antibody testing, and the role of endothelial progenitor cells and circulating endothelial cells in maintaining vascular access in dialysis patients.

**Internal Medicine**
The department of internal medicine was awarded an NIH Cardiovascular Specialized Clinical Center of Research (SCCOR) grant, with Gerald Dorn, MD, serving as the principal investigator of the program. The SCCOR comprises multiple projects. UC and CHRF project leaders include Drs. Dorn, Liggett, Kranias, Molkentin and Robins. The projects within this grant will study human genetic-phenotypic correlations as well as pioneer novel transgenic rabbit studies. The division of cardiology had 47 clinical research protocols in the enrollment or the patient follow-up phase during 2005. Marta Render, MD, from the division of pulmonary and critical care medicine, received a Veteran’s Affairs (VA) Research
Enhancement Award to support a multi-investigator program focusing on patient safety. Division of general internal medicine faculty Drs. Tsevat, Wess and Eckman play key roles in this program. Frank McCormack, MD, is the principal investigator on a global clinical trial on lymphangioleiomyomatosis, which began in 2005. The Hepatic Research Group in the division of digestive diseases, directed by Kenneth Sherman, MD, PhD, added a new faculty member to their program, Jason Blackard, MD, a viral epidemiologist. The clinical trial program continues to grow in both hepatology and luminal research. The division is also sharing a training grant with CHRF. In the endocrinology division, Dr. Yaron Tomer joined the division and was awarded a new RO1 grant from NIH. Dr. Tomer’s research focuses on autoimmune thyroid disease. David D’Allessio, MD, continues to serve as the codirector of the GCRC at the VA Hospital and contributed significantly to the GCRC’s renewal application to NIH. The general internal medicine division received several awards for the support of clinical research and education by division faculty. Dr. Tsevat is the principal investigator on an NIH K30 Curriculum Development Award as well as a K24 Mid-Career Mentoring Award, the latter on mentorship and research in spirituality and health. Peter Embi, MD, and Michael Yi, MD, were awarded NIH K23 awards and Timothy Lewis, MD, received a DHHC GACA Academic Career Award. David Arterburn, MD, was awarded grants for the Foundation for Informed Decision Making and the Rehn Family Fund.

The hematology and oncology division continues to accrue patients on investigational treatment protocols sponsored by various national cancer study groups, such as SWOG. In addition, the Cincinnati VA Medical Center is part of a research project, along with three other VAs, studying the safety issues that surround electronic order entry (using the electronic medical record) when ordering chemotherapeutic agents. The center is a brachytherapy center for the treatment of prostate cancer, with ongoing data analysis of outcome results from this approach to treatment. The division also continues its active basic research programs in prostate cancer biology, cancer immunotherapy and red cell disorders. During the past year, the division of immunology was awarded NIH training grants in both allergy/clinical immunology and rheumatology. Both of these were collaborative efforts with CHRF. In the division of infectious diseases, Peter Walzer, MD, received a new R01. Melanie Cushion, PhD, received a Research Scientist Award from the VA. The AIDS ACTU has been No. 1 in performance nationally over the past three years. In the division of nephrology, Manoocher Soleimani, MD successfully renewed his Merit Review award from the VA. He also described a novel mediator of kidney failure in ischemic injury. Based on the findings, a patent application was filed with UC’s intellectual property office.

**Molecular and Cellular Physiology**

The department of molecular and cellular physiology is continuing to develop research equipment infrastructure and actively pursue new research faculty recruits. This year Bryan Mackenzie, PhD, assistant professor, joined us from Harvard. A new core facility was established within the department, the Live Microscopy Core, providing UC with high-resolution light microscopy specializing in visualizing living cells and tissues. Other state-of-the-art resources in membrane research are being added to the equipment infrastructure through U.S. Army funding (John Cuppoletti, PhD). Departmental faculty have successfully competed for two new NIH RO1 awards that started this year, and five new awards from the
NIH, industry and Shriner’s Hospital, which will start in the coming year. A departmental faculty member (Janusz Suszkiw, PhD) received a Fulbright Scholarship for a six-month research experience in Poland.

**Molecular Genetics, Biochemistry and Microbiology**
The department of molecular genetics, biochemistry and microbiology has made major strides in structural biology, having completed both phases of the planned development. The department now has five structural biologists, two who specialize in NMR spectroscopy and three in X-ray crystallography. The department has one of the best NMR facilities in the country, and the X-ray crystallography facility is up and running, determining protein structures. This program not only provides the equipment to carry out sophisticated analysis, including three-dimensional structure of proteins and multiprotein complexes, but also the dynamics of how proteins interact. This facility provides a resource for the whole university. The research is directed toward cardiovascular and cancer biology and microbiology. The members of this group are Drs. Paul Rosevear, Mark Rance, Andrew Herr, Tom Thompson and Rhett Kovall. Of particular importance is Dr. Dan Hassett’s research in cystic fibrosis. Dr. Hassett studies Pseudomonas aeruginosa, which produces a substance very detrimental to cystic fibrosis patients. His research has uncovered a novel way to treat these infections. The work is funded by a significant grant from the Cystic Fibrosis Foundation and the NIH.

**Neurology**
UC continues to improve its research grant holdings in neurology. The FY 2004 NIH rankings listed the department as 10th among its peers in U.S. medical schools. We fully anticipate a continued or higher ranking for FY 2005, and an even higher ranking for FY 2006 when recent funding is included. We continue to expand clinical and basic research within the department, as well as increasing local, national and international collaborations. Some research highlights of 2005 include a $19 million award from the NIH to coordinate a five-year international, multi-center study of alternative treatments for acute stroke (IMS III, PI Joseph Broderick, MD); a five-year, $1.7 million NIH R01 award to study bilirubin oxidation and intracerebral hemorrhage (PI Joseph Clark, PhD); and a five-year, $1.7 million R01 award to study cerebral vasospasm after subarachnoid hemorrhage (PI Gail Pyne-Geithman, DPhil). Dawn Kleindorfer, MD, received an NIH K23 award to study the effect of socioeconomic status on outcome after stroke. She is the fourth faculty member in our department with a current K23 award. Dr. Clark and his colleagues won $40,000 in grants from Cincinnati Creates Companies to develop a more accurate and faster diagnostic tool to detect stroke symptoms. The Michael J. Fox Foundation awarded grants to Kim Seroogy, PhD, to study neuregulin-2b, a novel trophic factor for midbrain dopamine neurons, and to Caryl Sortwell, PhD, to study gene transfer of pleiotrophin to aged Parkinsonian rats. In addition, Dr. Sortwell, Timothy Collier, PhD, and Kathy Steece-Collier, PhD, were each awarded NIH studies for Parkinson’s research. Michael Privitera, MD, was awarded a planning grant from the American Epilepsy Society for a large multi-center epilepsy trial. Substantial recruitment of basic and clinical researchers, combined with our existing experts, has positioned our movement disorders and multiple sclerosis divisions to transform the understanding of the disease and the care of those afflicted. Other successes include the
discovery by Jarzy Szaflarski, MD, PhD, that the site in the brain that controls language in right-handed people shifts with age, offering stroke victims hope in treating speech problems, and the finding by David Ficker, MD, that using an extended-release pill vs. immediate-release may better control seizures.

**Neurosurgery**  
Over the past year, the department of neurosurgery has been able to improve the quality and productivity in both clinical and basic research areas. Support from different agencies, including industry and federally funded sources, has been increased by the continued development of a Clinical Trials Team, which includes the neurosurgery faculty, residents, staff, and three clinical research coordinators. Steps have been taken to involve clinicians and researchers in the UC system to foster multi-disciplinary approaches to research. Eighteen clinical studies are under way with the aim of evaluating the efficacy and/or safety of new treatments, and diagnostic techniques are being conducted in the department. Three of these clinical studies are investigator-initiated research, and many of the studies are in collaboration with the departments of neurology and physical medicine and rehabilitation. National collaborations include participation through subcontracts with Johns Hopkins University, the University of Medicine and Dentistry of New Jersey, and the University of Texas, Houston. NIH-funded basic science projects continue in the area of neuronal degeneration and regeneration, with the goal of identifying basic mechanisms of neural repair and protection that may be translated to clinical treatments.

**Obstetrics and Gynecology**  
The department of obstetrics and gynecology has had another successful year in research, with awards exceeding $2.5 million. Kenneth Clark, PhD, is program director for a new, five-year $2.5 million K12 training grant, “Cincinnati Interdisciplinary Women’s Health Research Career,” awarded by the National Institute of Child Health and Human Development (NICHD). This grant will support the career development of two basic scientists and two clinicians working in women’s health. In addition, the “Women’s Reproductive Health Research Career Development Centers” training grant funded by the NICHD was successfully renewed with funding of $2 million over the next five years. This program, directed by Leslie Myatt, PhD, supports research career development for up to three obstetrician/gynecologists at any one time. The department hosted 50 attendees at the second annual Women’s Reproductive Health Research Scholars Symposium in May 2005.

Helen How, MD, received a five-year, $2.4 million award from the Centers for Disease Control and Prevention to study “The Potential use of 17-hydroxy Progesterone Caproate to Prevent Preterm Births.” Stephanie Dahl, MD, received a second year of funding on a T32 training grant from the Society of Reproductive Endocrinology and Infertility. Ursula Harkness, MD, began work on a three-year training grant from the Society for Maternal-Fetal Medicine/American Association of Obstetricians and Gynecologists Foundation Scholarship Award for “Placental Gene Transfer of Insulin-Like Growth Factor 1 and 2 for Correction of Placental Insufficiency.” Two Millennium Scholars, Thomas Jansson, MD, PhD, and Theresa Powell, PhD, joined the department in August 2005 from the University of Gothenburg. Both
are experts in placental transport and will participate in a new initiative exploring the fetal origins of adult disease. Elbert Nelson, MD, received a national CREOG Award for resident teaching.

**Ophthalmology**

In 2005, the department of ophthalmology received a $110,000 unrestricted grant from Research to Prevent Blindness (RPB). Tiffany Cook, PhD, received a four-year, $200,000 Career Development Award from the RPB. Laboratory research projects conducted in the department during 2005 included studies of methods to improve the healing of corneal wounds caused by diseases and injuries, studies of the molecular regulation of retinal photoreceptor (rod and cone) differentiation, and development of a three-dimensional mathematical model for determining the distribution and movement of therapeutic drugs injected into the eye, vs. released transclerally using an implanted slow-release device. Our most important clinical research project was a study of the safety and accuracy of transvitreal fine-needle aspiration biopsy of clinically diagnosed small choroidal melanomas. In the field of corneal diseases, our researchers showed the effects and interactions of several genes and gene products that influence corneal clarity and wound healing after injuries. In the realm of retinal diseases, our researchers identified a cascade of gene expression that is responsible for differentiation of primitive retinal cells into mature rods and cones. In the clinical field, the study of transvitreal fine-needle aspiration biopsy of small, clinically diagnosed choroidal melanomas proved that a substantial proportion of these lesions are in fact benign melanocytic nevi. Because corneal scarring following ocular inflammations and injuries is a major cause of blindness worldwide, new findings that improve the prospects for restoration of corneal integrity and transparency are likely to have a major beneficial impact on innumerable patients. Our work with fine-needle aspiration biopsies of small, clinically diagnosed choroidal melanomas is likely to lead to more frequent use of this diagnostic approach around the world and resultant avoidance of unnecessary treatments in patients who are found to have benign lesions. Our work with a new implanted, slow-release device containing the drug methotrexate is likely to result in an improved approach to management of selected patients with intraocular lymphoma and uveitis.

**Orthopaedic Surgery**

Keith Kenter, MD, presented “Repair of Type II SLAP Lesions: A Biomechanical Analysis of Different Anchor Configuration” at the Mid-America Orthopaedic Association’s annual meeting. Dr. Kenter was awarded the EMPI Educational Gift for his IRB approved protocol “The Role of the EMPI PV300 on Rotator Cuff Recovery in Postoperative Rehabilitation.” Dr. Kenter is also participating in an IRB-approved study, “A Randomized Controlled Trial to Determine the Effectiveness of Restore Orthobiologic Soft Tissue Implant in Reinforcing Rotator Cuff Repair,” sponsored by DePuy Orthopaedics. Michael Archdeacon, MD, received an extension through December 2006 for his study “Prospective Evaluation of Abductor Function in Fractures of the Femur Treated with Antegrade Intramedullary Nailing,” awarded by the Orthopaedic Research and Education Foundation. Drs. Archdeacon and Kenter are in the process of participating in a federally funded NIH T32 training grant with David Butler, PhD, in bioengineering. Dr. Archdeacon and Timothy Hewett, PhD,
director of the Sports Biodynamics Laboratory at CHRF, are combining their research efforts into high-energy femur fractures and gait analysis, looking at trochanteric vs. piriformis, and antegrade vs. intramedullary vs. retrograde. They are also planning submission of a Department of Defense grant in February 2007. Dr. Archdeacon has been appointed as affiliated faculty in bioengineering. Currently the department is participating in numerous IRB approved studies led by PIs Dr. Archdeacon, Dr. Kenter, Theodore Le, MD, and John Wyrick, MD.

**Otolaryngology**

Development of the UC Voice Consortium, with support from both campuses as well as pediatric otolaryngology at CHRF, was a primary focus of the department’s clinical, research and teaching mission. Ronald Scherer, PhD, was recruited in September from Bowling Green State University to direct this effort. Other members of the consortium are the colleges of music, engineering and allied health sciences. Dr. Scherer is the principal investigator on a grant funded by the NIH, NIDCD, “Aerodynamic and Acoustic Models of Phonation,” continuation, $713,000, with includes subcontracts with the University of Toledo, Purdue University and the Medical College of Ohio. Four faculty members are supported by NIH K08 career development awards or NIH R01 awards (Drs. Siddart Khosla, Daniel Choo, John Greinwald and Ravindhra Elluru). A $150,000 research grant funded by Wyeth Pharmaceuticals for “Randomized Placebo-controlled Trial of Pantoprazole for Sleepiness Associated with Acid Reflux and Obstructive Sleep Disordered Breathing” is ongoing, and a new $150,000 research grant was awarded to David Steward, MD, by Restore Medical for “Randomized Placebo-Controlled Trial of Pillar Palate Implants for Obstructive Sleep Apnea.” The department also has other ongoing clinical research studies involving sleep disorders, thyroid and parathyroid disease, and head and neck cancer. Sixty-five research studies were published in premier, peer-reviewed journals during 2005. Additionally, the department was recognized in *U.S. News & World Report* in its 2005 Best Hospital Issue as 14th in the nation in the specialty of ear, nose and throat. The department recruited three additional new faculty members: Ravi Samy, MD (September) otology/neurotology; Lee Zimmer, MD, PhD (July) head and neck surgery, endoscopic cranial base surgery and swallowing disorders, and David Brown, PhD (April) pediatric audiology. Sally Schott, MD, was elected president of the Society for Ear, Nose, and Throat Advances in Children (SENTAC), a national pediatric otolaryngology society.

**Pediatrics**

The department of pediatrics was awarded four NIH grants for the year, including two T32 renewals: “Training in Developmental and Perinatal Endocrinology,” Stuart Handwerger, MD, principal investigator; and a “Pediatric Gastroenterology and Nutrition Training Grant,” Mitchell Cohen, MD, principal investigator. There was a successful recompetition of the NIH General Clinical Research Center Grant with Jim Heubi, MD, as director. A new Program Project Grant awarded, “Interleukin-13 in Experimental Asthma” with Marsha Wills-Karp, MD, as principal investigator.
Physical Medicine and Rehabilitation

It has been another breakthrough year for physical medicine and rehabilitation (PM&R). We continue to lead the way in human translational neuroscience research at the medical center, as well as being one of the country’s leading PM&R research departments, with three new NIH-funded research grants, including an RO1, starting during the 2004–2005 academic year. We are also currently conducting two FDA trials on new devices purported to improve function in stroke patients. In summer 2005, a member of our department was one of 14 researchers across the country to receive a prestigious Bugher Award from the American Stroke Association. This four-year grant, equivalent to a NIH RO1 grant, recognizes the most innovative and meritorious stroke research in the country. He was one of only a few clinical researchers recognized, and the only rehabilitation researcher recognized for this award. The year was also highlighted with several honors. Stephen Page, PhD, research director, was named a runner up in the Cincinnati Business Courier Health Care Hero awards competition.

Psychiatry

Thirty-three principal investigators in the department of psychiatry successfully competed for NIH, state and private funding of $14 million. These investigators are conducting important clinical and basic research in schizophrenia, bipolar disorder, drug abuse, post-traumatic stress disorder, neuroendocrinology, fibromyalgia and obesity. Researchers in the department also attracted $384,000 in funding from Stanley Medical Research Institute, NARSAD, Astrazenecia and DOV Pharmaceutical, for research in bipolar disorder, depression, and metabolic side effects of psychiatric medications. Twenty-one investigators conducted pivotal clinical trials of new medications for the treatment of schizophrenia, bipolar disorder, depression, eating disorders obesity, drug abuse, gambling, fibromyalgia, sexual dysfunction and anxiety disorders yielding $3.3 million in grants. Department researchers provided critical leadership roles in the Center for Imaging Research, (CIR), and the Veterans Affairs Medical Center General Clinical Research Center. Lastly, experts in the department were quoted in The Washington Post, Cincinnati Magazine and Forbes, among other publications, regarding scientific advances.

Center for Imaging Research (CIR): During the past year, the CIR has supported over 25 funded research projects, with funding from a wide variety of sources, including the NIH, several foundations and industry. To highlight a couple of areas, investigators using the CIR have defined the functional neuroanatomy of bipolar disorder and are now actively investigating neurochemical mechanisms to better understand the functional abnormalities and provide targets for treatment development. Other investigators have been studying brain reorganization during rehabilitation after stroke to improve prognosis of stroke patients. Two recently initiated pilot efforts include using fMRI to study brain responses to cigarette cues in smokers, in order to help improve smoking cessation efforts, and a study to better understand how the brain processes odors, which has attracted considerable attention from local industry. In conjunction with the department of radiology, the CIR is currently expanding its capabilities with the installation of a new high-field clinical MRI system. As a College of Medicine core facility, the CIR remains committed to helping investigators develop human imaging as part of their research programs and expanding imaging research within the university.
The psychiatry department received $11 million in NIH funding in 2004, making it No. 23 in funding among all psychiatry departments and No. 11 among public institutions. The department was beneficiary of a $30 million gift to the UC Foundation by the Lindner family to build a new center for treatment, research and research into psychiatric illnesses.

Current Psychiatry, which is published by the department, became the most widely read psychiatric journal in the United States.

The department published 271 unique articles in 140 different journals, including Science, Nature and JCI.

With 15 graduates going into psychiatry, UC was among the schools with the highest absolute number and percentage making that choice.

**Radiology**

The Department of Radiology continues to expand its research activities. Our investment in a 64-slice multi-detector continued to provide research opportunities. Cris Meyer, MD, focused his cardiac CT angiography research on atrial fibrillation patients. His work resulted in an award-winning poster at the annual meeting of the Radiological Society of North America, as well as a grant from Siemens Medical Systems. Mary Mahoney, MD, continued her work in conjunction with the American College of Radiology Imaging Network in breast imaging, participating in the “Digital Mammography Imaging Screening” trial, the “Breast Cancer: Screening with Ultrasound” trial and the “Breast Cancer: Screening of Contralateral Breast with MRI” trial. Radiology faculty were also the recipients of two TNI grants. Todd Abruzzo, MD, received funding to evaluate “Polymerase Chain Reaction Micro-Array Analysis of the Biologic Environment Predisposing to Cerebral Aneurysm Formation in a Rat Model,” and Thomas Tomsick, MD, received funding to evaluate “The Effect of Contrast Material on Edema and Hemorrhage in Acute Ischemic Stroke.” Dr. Tomsick is also co-principal investigator on a $17.4 million NIH grant with Joseph Broderick, MD, neurology, to assess the treatment of acute stroke. Radiation oncology continued to participate in a number of national cooperative groups. UC Radiology made another significant investment in advanced imaging research with the acquisition of a 3T MR scanner. The scanner will be located in space adjacent to the Center for Imaging Research and should be operational in the second quarter of 2006. The scanner will support both clinical and research activities. Lisa Lemen, PhD, a medical physicist with MR research expertise and experience, was also recruited to support MR research activities. The 3T MR scanner will become a key resource in the College of Medicine, supporting multidisciplinary advanced imaging research.

**Surgery**

Research in the department of surgery continued its rapid pace of development. Funding from the NIH, the Shriners Hospitals, the Department of Defense and NASA expanded to support laboratories for trauma-sepsis, epithelial pathobiology, peptide, and oncology research, and the Center for Surgical Innovation (CSI). Of particular note was the awarding
of a substantial federal grant through the U.S. Army’s Telemedicine and Advanced Technology Research Center to the CSI for development of telesurgery. This grant coincides with the construction of a new CSI research facility, to be completed in 2006. Research in the department’s peptide laboratory yielded new patents in 2005, and some of these were licensed to biopharmaceutical companies for development of new obesity treatments. In addition to laboratory-based research, the department conducted extensive clinical research. A highlight was the award of a large grant to the trauma division by the Office of Naval Research for improvements to a portable ventilator for use in extreme conditions on the battlefield. Other initiatives in the department begun in 2005 that will bear fruit in 2006 include the expansion of oncology research in the in conjunction with the UC Cancer Center, and organization of a new cardiovascular research laboratory.

GRADUATE EDUCATION

Centralized support for recruitment of graduate students into all 12 graduate programs continues to enhance the visibility and competitiveness of our college within the sphere of biomedical science programs nationally. We raised stipend levels to maintain a competitive level of student support, are recruiting and retaining an outstanding graduate faculty, and are improving support for postdoctoral fellows. Highlights from centralized recruitment of graduate programs are included here. For more detailed information, or for copies of recruitment materials, please contact the Office of Research and Graduate Education.

Training Programs
The college held 31 active training grants and career awards in FY 2005. Eleven departments hold awards, including surgery (7), internal medicine (5), obstetrics and gynecology (5), psychiatry (4), neurology (3), medical administration (2, including the medical scientist training program), cell biology, neurobiology and anatomy (3), environmental health, molecular genetics, and pathology.

Graduate Programs
Our graduate programs have been evaluated extensively over the past few years, both by external and internal peer review groups for the university and by external consultants to the Ohio Board of Regents. The Council on Graduate Education initiated a schedule of program reviews in 2003. Since then six of our doctoral programs have been reviewed: molecular genetics, biochemistry and microbiology, environmental health, molecular and developmental biology, the physician scientist training program, neuroscience, and cell and molecular biology—each of which received a score of “outstanding” and have been targeted for additional university investments.

New incentives for increasing tuition revenue have motivated our programs to increase the level of funds generated by Training Grants and Master’s Degree programs in the college. Tuition incentive funds turned back to the college by the Graduate School have been distributed among the programs to support graduate training.
Graduate Student Enrollment
Our 12 graduate programs had 725 applications and matriculated 114 students in 2005, of which 29 were international and 69 were from Ohio, according to data entered into UniverSIS by the graduate programs. We graduated 98 students (24 MS, 53 PhD), bringing our total student body to 434, of which 47 percent are female, 25 percent are international and 5 percent are U.S. under-represented minorities.

i-Recruitment and the Graduate Education Web Site (www.med.uc.edu/GradEd)
The Office of Research and Graduate Education continued the development of the i-Recruitment Initiative. We have developed a recruitment system that utilizes Web-based databases and communications systems, as well as promotional and marketing strategies that drive potential students to our site. This year we continued to develop our online Graduate Prospecting System (GPS). Our new system enables us to use our Web site to collect and track data about our prospective students. It also allows us to manage data and communicate with all of our prospective students. Additionally, we provide access to the database and user support to each graduate program in the college so they can track and communicate with their own prospective students.

Marketing
Continued use of college newspaper advertising helped us to promote our attendance at graduate fairs and our presentations to undergraduate students at target colleges. We provided prospective students with our graduate program brochure and our summer undergraduate research programs brochure, both of which outline our research focus areas and active research projects at the college. We used several promotional items designed to drive people to our Web site; tabletop banners, plastic bags, pens, cups and T-shirts, all branded with our logo or a signature design based on photographs of recent trainees. A new promotional Web card was developed to advertise our Visitation Day. The card, shaped like a concert ticket, was presented to students at graduate fairs and during college visits, and was mailed to undergraduate faculty contacts and prospective students to encourage them to attend Visitation Day.

Visitation Day
Our annual Visitation Day was announced on our Web site and students were able to register online to select which graduate program they wanted to visit. They could also visit a special Web site to review previous visitation events and read about the labs that were on the tour. About 40 undergraduate students attended the event. Each student was able to visit at least three laboratories and one graduate program, in addition to an information session about the MD program. Several of our visitors have subsequently applied for summer programs and graduate programs in the College of Medicine for 2006.

Minority Recruitment
Our continued close collaboration with the Office of Diversity and Community Relations, to develop centralized support for the recruitment of under-represented minorities into the
College of Medicine, has enabled us to cover more graduate fairs and recruitment events and give more presentations at historically or predominantly black colleges, on behalf of both the medical and graduate programs, in order to meet and recruit a greater number of prospective minority students.

Colleges visited this year included Tennessee State University, Fisk University, Howard University and Oakwood College in Huntsville, Ala. In addition, we exhibited at a graduate fair held by a consortium of colleges in Atlanta, and at the conference of the Society for Advancement of Chicanos and Native Americans in Science in Denver.

For the past two years, our undergraduate summer research programs have been augmented by the participation of three students from Oakwood College, supported by an NIH grant awarded to Oakwood. These students had their choice of many medical schools across the country, and they selected UC for their summer research experience. Some of these students have already applied for graduate school in the College of Medicine. Three more students plan to come to College of Medicine to do research in summer 2006.

Summer Undergraduate Research Programs
A major goal of the Summer Undergraduate Research Program (SURF) is to promote careers in science and to recruit potential students. Our ongoing collaborative effort with College of Medicine graduate programs provides a meaningful and memorable research experience to our undergraduate summer fellows.

The Office of Research and Graduate Education sponsored over 130 undergraduate research fellows in summer 2005 in collaboration with cell and molecular biology, molecular and developmental biology, the physician scientist training summer programs, the new STING program in molecular genetics, biochemistry and microbiology, and the NSF-REU program in molecular, cellular and biochemical pharmacology. The students represented undergraduate institutions from all over the United States, and each spent eight to 10 weeks participating in a research project in one of our biomedical laboratories across the Academic Health Center.

The Office of Research and Graduate Education supported 13 students in the SURF program in 2005. Undergraduates came from Xavier University, Miami University, Taylor University (Ind.), Skidmore College, University of Kentucky, University of Dayton, Otterbein College, Johnson C. Smith University (N.C.), DePauw University (Ind.) and Oakwood College (Ala.).

We continued to develop the new online application for the SURF programs. This system integrates applicants to each of the summer programs into one shared database. The application, designed collaboratively by all the programs and developed by the Office of Research and Graduate Education, allows students to apply to multiple summer programs without the need to retype their demographic information on multiple forms. New this year: students will be able to communicate with other students in the programs via a
communication blog and maintain a personal calendar, including the ability to sign up for extra curricular activities on the online calendar.

Figure 6

Demographics of New Graduate Students
(Average for all College of Medicine Programs, 2005)

New, OH, 69, 38%
New, US, 85, 46%
New, International, 29, 16%

GRADUATE PROGRAM HIGHLIGHTS

Biomedical Engineering (35 PhDs)—Thirteen students joined the program in fall 2005, for a total of 35 graduate students enrolled in the program. The average GRE for the incoming student is 1275 for those who took the new test and a 2065 for those who took the old GRE test. We also graduated our first PhD student in tissue engineering in August, and other students are scheduled to graduate before the end of 2006.

Biomedical Sciences Flex Option (3 PhDs)—The program matriculated its sixth class in 2005. The new students are graduates of Xavier University, Muskingum College and Ohio State University. The Flex program continues to bring in very competitive students. This year’s class has a cumulative grade point average of 3.65 and a cumulative GRE average of 1363. Our six Flex students who entered in 2004 have been successfully placed with graduate programs:

Dana Borcherding, cell and molecular biology; Sara Maxfield, cell and molecular biology; Susan Melhorn, neuroscience; Brian Murphy, neuroscience; Gina Whitmore, cell and molecular biology; and Xun Zhang, immunobiology. Flex students Craig Bolte, Dana Borcherding, Sara Maxfield, and Nikolaos Nikolaidis participated in the 26th annual College of Medicine Graduate Student Research Forum.

Cell and Molecular Biology (43 PhDs)—We were very pleased to recruit 10 new students this year with outstanding credentials and excellent academic records. Moreover, three students from the Flex program and one MD/PhD student joined our ranks. Students in our
program were highly honored for their achievements in 2005 with many prestigious awards and invited talks. We have two UDGF awardees currently in the program. This year, one student was awarded a Ryan Fellowship, making a total of three current Ryan Fellows in the program. Students hold other individual fellowships, including two Army Predoctoral Fellowships, a Susan G. Komen Predoctoral Fellowship, a Functional Genomics Fellowship, a Lions Foundation Eye Research Fellowship, the Cardell Fellowship and individual NRSAs. Our students published over 21 peer-reviewed publications in 2005. Several students were also selected for travel awards and support by NIH-funded training grants in cancer biology and in carcinogenesis and mutagenesis. Our students took all three first-place awards and one honorable mention at the College of Medicine Graduate Student Research Forum.

**Environmental Health (90 PhD, 51 MS degrees)**—Erin Haynes, PhD, director of the Clinical Research Training Program, with the support of Joel Tsevat, MD, Institute for the Study of Health, obtained approval from the graduate school to launch a new master’s degree program in clinical research in the coming year. Its curriculum is fully aligned with the Department of Health and Human Services’ new Roadmap for Clinical Research, one of whose goals is to enhance clinical research workforce training. The department received a four-year, $218,000 Graduate Program Enhancement Award from the Vice President’s Academic Excellence Fund. Tim Dalton, PhD, received the Richard Akeson Excellence in Teaching Award.

The department continues to maintain an outstanding teaching record. It supports the largest graduate training program in the College of Medicine, with about 165 master’s and PhD students. Graduates, calling themselves the “Academy of Kettering Fellows,” number over 900. From 1993 to 2005, 258 students (105 PhD and 153 MS) completed their degrees, including 30 physicians who have completed their training in departmental programs.

**Immunobiology (8 PhDs)**—In our second year, we matriculated four new doctoral students, one of whom is a PSTP student and one a member of the Biomedical Sciences Flex Option. Two of our students received NIH Predoctoral Fellowship Awards and one has received a Strategic Training in Allergy Research Program Award. The first group of students passed their written qualifiers with flying colors and we look forward to their advancement to candidacy. Enrollment in our newly launched immunology core courses has more than doubled since their inception. Our existing program faculty of 45 is drawn from several departments and divisions from UC and the department of pediatrics. This diversity in program faculty offers a wealth of research opportunities in immunology for incoming students. We anticipate continued growth of the program faculty, since immunology has been selected as a target area for expansion in the department of pediatrics. Indeed several faculty searches are in progress. To accommodate the continued growth, a new 12-story research building is currently being erected where the old Children’s Hospital was previously located.

**Radiological Sciences (Medical Physics) (10 MS degrees)**—The graduate program in radiological sciences (medical physics) in the department of radiology granted two MS
degrees in the 2005. One graduate gained a position at the Massachusetts General Hospital, Boston, Mass., while the other is employed at University Hospital. Two previous graduates have completed Part I of the American Board of Radiology Examination, two have completed Part II of the American Board of Radiology Examination in Therapeutic Radiological Physics, and two have completed the entire board certification process. Four full-time students and one part-time student continued in the program, and four full-time students and one part-time student matriculated into the program. Total enrollment in the program was increased to 10 students. Enrollment was increased in part to fulfill the requirements for accreditation by the Commission of the Accreditation of Medical Physics Programs, sponsored by the American Association of Physicists in Medicine. An additional faculty member was also recruited to satisfy accreditation requirements. Additional components for accreditation will be put in place during 2006, with application for accreditation expected in 2007. One faculty member received a grant as a principal investigator on a UC subcontract of an NIH R01 at Children’s Hospital Research Foundation. The study will follow the neuropsychological development of pediatric patients after radiotherapy and correlate that development with new and novel metrics of radiotherapy.

**Molecular Genetics, Biochemistry and Microbiology (52 PhD, 5 MS degrees)**—The hard work by our graduate students and faculty has resulted in the completion of 11 PhD and six MS degrees during the past year. Twenty-five of our graduate students were involved in 31 publications, including 22 papers with first authorships. The research was published in a variety of journals that reflect the diversity of our graduate research training, including the *Journal of Biological Chemistry, Biochemistry, Journal of Immunology, Infection and Immunity, Journal of Bacteriology, Molecular Cell Biology* and *Mutation Research*. Twenty-one posters from our department were presented in the College of Medicine Graduate Student Research Forum and awards for their presentations were attained at both college-wide and university-wide poster forums. Graduate students have garnered a number of awards and fellowships to support their research, including the Ryan Fellowship, University Distinguished Dissertation Fellowship, Functional Genomics Fellowship, American Heart Association Fellowship, URC Summer Fellowship and UDGF. In terms of recruitment, an undergraduate summer research program was initiated in our department this year (STING) with six outstanding students working in our research laboratories. The incoming class for 2005 includes a student from Bahrain supported by the Fulbright Scholars Program. Growth in our Structural Biology Group continues with the arrival of a third X-ray crystallographer, Thomas Thompson, PhD. A new course called Advanced Macromolecular Crystallography was planned for fall 2005 to reflect the growing interest in this field. We look forward to continuing growth both in our graduate student program and faculty in the coming year.

**Molecular and Developmental Biology (52 PhDs)**—The Cincinnati Children’s Research Foundation Research Scholars Program was established in 2005 to recruit the very best students. This scholarship fund, generated from pediatric department resources and coordinated by Jeff Whitsett, MD, will be used to support increased stipends for meritorious applicants. Three scholarship offers were made in March 2005, and two of the prospective students enrolled in the program. Increased tuition and stipend support to grow the program...
also was provided by the university administration as a result of the positive recommendations of external review in 2004. Overall, there was an increased emphasis on academic excellence of candidates during the admissions process directed by Tim Weaver, PhD, and the program matriculated eight new students, including one PSTP student in fall 2005.

Student honors include a Ryan Fellowship (Yan), UC Distinguished Dissertation Award (Lloyd) and American Heart Association Predoctoral Fellowship Awards (Yan and Howells). The students have a high level of scientific productivity and publish their work in the leading developmental and molecular journals, including Development, Cell, Nature Immunology, Developmental Cell and Developmental Biology. Students also presented their work at the leading national and international meetings supported by the Richard Akeson Travel Awards (15) and UC Travel Awards (3), in addition to participating in the highly competitive Embryology Course at Woods Hole (Tunca). In the last year the program graduated six students with PhDs and two with master’s degrees.

The MDB program faculty continues to grow (66 in 2005), with successful recruiting efforts in the department of pediatrics divisions of developmental biology, neonatology and ophthalmology and in the department of surgery. The MDB curriculum was evaluated in 2005 under the direction of Janet Heasman, PhD, and individual academic plans of study were designed for each student in the entering class on the basis of their scientific background and interests. The “Foundations of Development” course also was expanded to provide students with increased instruction in basic developmental biology. Construction of the new CHRF research building is in progress and will provide extensive additional research space for pediatrics department faculty when it opens in 2007. With the growth of the program, significant efforts have been devoted to improving student recruitment, including the activities of a full-time recruiter (Edith Markoff) and extensive revisions of the MDB website. Program administrative changes include the appointment of Kenny Campbell, PhD, as director of graduate studies and Jeff Robbins, PhD, as membership director.

Molecular, Cellular and Biochemical Pharmacology (18 PhDs)—Graduate students in our program represent a diverse group of highly competitive individuals. We continue to attract minority and learning-disabled students and have been successful at garnering NIH support. Several of our graduate students have been recipients of university awards, including Ryan, Yates, IGERT, and University Distinguished Graduate fellowships and, most recently, the Excellence in Teaching Award. In addition, our students have received appointments to interdepartmental NIH Training Grant positions. Nationally competitive awards from the American Heart Association also reflect the strength of our program’s mentors and students. Graduate students (3) in our program received third-place awards in the most recent Graduate Student Research Forum, continuing our tradition of placing well in this College of Medicine competition. Furthermore, our department administered a National Science Foundation REU (Research Experiences for Undergraduates) Site Program this past year, which offered summer research fellowships for 12 undergraduate students.
**Systems Biology and Physiology (10 PhDs)**—In 2005 we renamed and expanded the physiology PhD program, adding 50 new participating faculty members and establishing computational biology as a core educational goal of the program. Data-intensive studies, such as two-photon live microscopy and gene expression profiling, are used alongside whole-animal experiments. Research opportunities are provided in the cardiovascular, epithelial, pulmonary, renal physiology, neurobiology, endocrinology, membrane biophysics and cellular transduction fields in four modern facilities.

**Neuroscience (26 PhDs)**—The program has continued to grow over the past year. Nine students joined the program, two of whom are in the Physician Scientist Training Program. In addition, we welcomed two transfer students from the graduate program at Rush University, who came as part of the recruitment of a neuroscience team from that institution. Four students graduated last year and are currently doing postdoctoral fellowships at Yale, UC, Tulane and Johns Hopkins universities. We also welcomed a student from the graduate program at Tulane, since that institution closed following Hurricane Katrina. Our students continue to compete successfully for individual fellowships and awards, including two Functional Genomics Fellowships, an Albert Yates Fellowship, a Scottish Rite Schizophrenia Fellowship and several individual NIH predoctoral fellowships. In addition, seven of our students are supported by our broad-based NIH Predoctoral Training Grant in Neuroscience, and three by the NIH Neuroendocrinology Training Grant. The program held its annual retreat last spring and organized the ninth Cincinnati Neurofest on March 11 and 12 in conjunction with the Cincinnati Translational Neuroscience Symposium. The theme for Neurofest/CTNS was “Neuroplasticity in Health and Disease: Strategies for Recovery.” The program also hosted the annual Daniel L. Kline Neuroscience Lectureship, with the support of a generous gift from the family of Dr. Daniel Kline, former chair of physiology at UC. The gift helped fund the visit of a high-profile cognitive neuroscientist, Alcino Silva, to UC, where he delivered the Daniel L. Kline lecture, “Molecular and Cellular Cognition Studies of How We Learn and Remember.” The Kline fund also sponsored a travel award to a neuroscience student. The Dean’s Discovery Fund sponsored two additional lectureships in cognitive neuroscience, delivered by William Newsome and P. Read Montague. The program is an active participant in the Ohio Miami Valley chapter of the Society for Neuroscience, which brings together neuroscientists from UC, Miami University, Wright State University and the University of Dayton. Finally, the Neuroscience Program has been actively involved in the planning of new educational initiatives in neuroscience, including the development of a translational neuroscience training program and an undergraduate neuroscience major.

**Pathobiology and Molecular Medicine (17 PhDs)**—In 2005, four motivated first-year students joined our program. We have established a marketing and recruitment sub-committee to spearhead our image and branding efforts for the program. Graduate committee members visited undergraduate science programs at major universities in Ohio, Kentucky and Indiana to inform undergraduate students about the various research opportunities in pathobiology and molecular medicine. In addition, current graduate students participated in recruitment efforts by visiting student groups at local colleges to talk about research and graduate studies in our program. Our program has continued its upward swing of strong
programmatic growth and outstanding student accomplishments. In 2005, one of our graduate students received an award at the College of Medicine Graduate Student Research Forum. In addition, our students have received several prestigious predoctoral research awards, including a five-year NIH F31 award, a two-year American Heart Association award, a three-year Integrative Graduate Education and Research Traineeship (IGERT), and a Cincinnati Graduate Teaching Fellowship. Many of our students attended and presented their research at regional and national scientific meetings. Our students routinely receive summer fellowship awards and travel awards to meetings. Five students graduated in 2005. Four of them have postdoctoral fellowships at Northwestern University, the National Institute on Aging, Scripps Clinic and Research Foundation, and the University of Texas Southwestern Medical Center. The fifth student is a clinical assistant professor at the College of Allied Health. We have continued to update our core curriculum to accommodate the changing face of the field. In conjunction with Proctor & Gamble, our program has established a summer research internship designed to provide students exposure to research in an industry setting. Eligible students spend 12 weeks in a laboratory working with top P&G scientists heading drug discovery programs. This new initiative supports our program’s goal to produce graduates who are trained to understand the molecular basis of disease. Additionally, we have revamped our pathobiology of disease course to include five modules on our main areas of disease: mycology, lipid disorders, endocrine disorders, hematology-oncology and immunology.

Physician Scientist Training Program (38 MD/PhDs)—This year was another strong year for the PSTP. We received 104 applications and matriculated five students from Miami University, Duke University, UC, the University of Toledo and Northwestern. We graduated three individuals with combined MD/PhD degrees, who accepted residencies in internal medicine at the University of Chicago, neuropathology at UCSF and internal medicine at Duke. Four students earned their PhDs and returned to the clinical biennium, while four students in the clinical biennium were elected to Alpha Omega Alpha in 2005.

OFFICE OF FACULTY AFFAIRS

During the past year we added the following to our list of accomplishments:

- Successful implementation of faculty bonus process.
- Finalized searches for dean of medicine and chair of department of environmental health.
- Completed two department reviews.
- Sponsored several faculty development programs, including the New Faculty Welcome, Faculty Years of Service Awards and numerous professional development seminars.
- Revision of criteria for appointment, reappointment, promotion and tenure for all Academic Health Center colleges has been completed or is nearing completion in order to bring all academic goals and expectations into alignment with UC|21.
- Worked with both internal and external employees to create and implement the new HR information systems.
Place Students at the Center: Become a university of choice, a destination campus, by placing students at the core of our mission.

Activities within the college include continuation to recruit, increase retention and graduate qualified and diverse student populations, which translated into the following:

- Recruited more academic scholars with an increase in qualified minority students.
- Increased our timely referrals for at-risk students for counseling and tutoring prior to academic difficulty.
- Filled the student advocate and advisement specialist position, located in Student Affairs, with Mollie Kerscher.
- Continued to create an environment to enhance student access and student life within our building. We have completed renovation of a classroom with a maximum seating capacity of 80 on the second floor, plus addition of student information boards within the college.
- Established a Graduate Computer Laboratory on the ground floor,
- Increased equipment in our clinical on-campus Skills Laboratory, ranging from mounted flat-screen monitors and computers to assist in self-directed learning,
- Purchased a Sim-Man,
- Student Affairs published a quarterly newsletter to undergraduate and graduate students.
- Increased student admission criteria in fall 2004 and increased the number of social activities for students and faculty, such as luncheons, outdoor picnics, career fairs, information sessions, orientation, shadow-a-nurse, shadow-a-faculty, etc., to enhance the placement of students at the center within the College of Nursing.

Grow our Research Excellence: Build on UC’s greatness as a major research university to benefit society, have meaningful economic impact and enhance the quality of life for all.

Strategies to increase extramural funding were implemented as follows:

- Visiting scholar series
- Consult with nationally recognized funded scientists
- Internal/external pre-submission of grant reviews
- Enhanced college research infrastructure
- Faculty effort devoted to increased research; increased effort to integrate research scholarship into teaching/methodologies learning.
Funding for innovative projects was as follows:

- Christ Hospital Graduate Fellows Program—$50,000.
- Health Alliance College of Nursing Partnership—$474,000
- Robert Wood Johnson (AACN ACT II) Achieving Partners for Quality Education—$75,000.
- After-Hours Homeless Health Clinic, Greater Cincinnati Health Foundation—$117,626.
- Helene Fuld Health Foundation Scholarship Grant—$547,000.
- Excellence in Research Funding increased from ~$600,000 in 2000 to $1.6 million in 2005.
- Partnership with University Hospital in the Institute for Nursing Research resulted in $250,000 of research-funded proposals in collaboration with the college.

**Achieve Academic Excellence:** Encourage an environment of high-quality learning and world-renowned scholarship.

- Established a college-wide task force consisting of faculty, staff and administration, which further stratified into subgroups, each responsible for one of the six UC|21 goals. The subgroups consisted of faculty members who collected data on the college’s long- and short-term actions, benchmarks, accountability and budget implications.
- College activities for the past five years have focused on the accomplishment of our vision: Transforming Health Care through Innovative Education and Research.

**Forge Key Relationships and Partnerships:** Establish and nurture relationships and partnerships, with our colleagues within the university and with local and global communities. UC|21 underscores a true commitment to community engagement.

- Articulation agreements with the Ohio State Articulation—RN/BSN program, Christ, Good Samaritan and St. Clair Community Hospitals and Raymond Walters College
- Creation of educational programmatic community partnerships with Christ Hospital RN/BSN program on-site, Clermont College BSN program—curriculum developed, business plan developed and approved. Fifty percent student adviser position developed, approved and recruitment in progress; 24 students identified via transcripts and deemed ready for first cohort for programmatic implementation and admission in September 2005.
- Development and participation in ACT II.
- Participation in Institute of Health Improvement.
- Continuation of the interdisciplinary nutrition position with colleges of medicine and nursing.
- Continuation of our interdisciplinary distance learning program—international level with Yonsei University, Seoul, Korea, and Tegucigalpa, Santa Lucia, Honduras.
- Continuation of the RN/BSN collaboration with Raymond Walters College.
• Continuation of work with Yonsei University on FNP, NNP, and PNP graduate programs.
• Negotiation for certificate programs in aging, acute care and critical care with Seoul National University.
• Continue and establish new partnerships with local high schools, shadow-a-nurse and Boy Scouts Explorer programs.
• Partnerships with Cincinnati Public Schools (Harmony House and East End).
• Partnerships with American Red Cross Center for Addiction, City Gospel Mission, Every Child Succeeds, Hope House.
• Cooperative program in partnership with University Hospital with doubling of enrollment to 26.
• Currently in negotiations and discussions for another co-op site at Jewish Hospital and Mercy Hospital, Mt. Airy.
• College nurse-run clinics at Harmony School, East End School and Project Succeed.

Establish a Sense of “Place”: Develop an environment in which members of the campus community and the community at large want to spend time—learning, living, playing and staying—and provide long-term support to build a better Uptown.

Create Opportunity: Develop potential, not just in our students, but in our local and global communities.

• This year we engaged in considerable activity with Compass Knowledge for assessment and review of the feasibility of offering midwifery/women’s health graduate level programs via distance learning.
• With the assistance of Bob Ambach, in collaboration with our college’s financial personnel, the Compass Knowledge business plan was submitted through the university procedures, beginning with Bob Ambach and culminating with the president’s budget committee.
• The business plan is in the early stages of implementation. Courses are in the process of being, or have been, developed for the e-learning format along with active recruitment of a cohort of students.
• Nursing faculty, along with Compass Knowledge personnel, have been engaged in recruitment of students (national meeting of about 1,900 midwifery attendees held in Washington, DC).

In response to the national shortage of nursing faculty, a variety of innovative strategies have been reviewed.
Rising to the challenge from Senior Vice President and Provost Jane Henney, MD, to identify opportunities to “grow our own faculty,” we:

- Held telephone discussions with presidents from the College of Mt. St. Joseph, Cincinnati State, and UC related to the need for nursing faculty to obtain degrees while remaining in the Tristate area.
- Held meetings and informal sessions with nursing leaders from educational programs in the Cincinnati area.
- Designed a summer institute for the novice faculty with certification to be piloted August 2005.
- Wrote a grant to HHS for financial support of the Summer Institute for the Novice Teacher.
- Redesigned the PhD program to offer a nurse educator option.
- Restructured the PhD curriculum to offer the program on a summer part-time basis based on the needs of the community.
- Secured $50,000 from Ethicon Endo-Surgery to support the “Grow Our Own Faculty” concept.
- Secured a donor gift of $2 million from Shirley Tashiro Burke. Negotiated the funds as dean’s discretionary to be used for faculty development, etc.
- Set 2005–06 for the development of a Faculty Development Plan Task Force.

OFFICE OF UNDERGRADUATE AND GRADUATE AFFAIRS

Lou Ann Emerson, Associate Dean

Goals achieved in 2004–05
Assisted with implementation of the traditional BSN revised curriculum at the junior level. The work was effectively completed thanks to the great dedication of faculty members, particularly Leslie Cooper, Barbara Gilman, Diane Grever, Anita Finkelman, Ursula Meyer and Joanne Schweitzer, who served as course and community experience coordinators. It was a challenge to arrange community experiences for 100+ students. In addition, Anita Finkelman took a large leadership role in faculty orientation, faculty development and organization of the whole effort.

Found additional faculty to teach increased numbers of students during a continuing faculty shortage. The plan was to:

(A) Increase undergraduate enrollments in the traditional BSN program, so that the entering class size is about 140, starting in 2003–04 and continuing through 2005–06, resulting in an overall increase in traditional BSN students of 150 students by fall 2005.

(B) Maintain an enrollment of 40 accelerated pathway students, an increase of 20 students over 2002–03. The enrollment projections were met. A decrease in the number
of students initially entering the junior courses resulted from students not successful in the sophomore level. Many of the students unable to progress enrolled in courses instituted for out-of-sequence students. The faculty is supportive on an ongoing plan of course offerings for out-of-sequence students.

Collaborated with other individuals in the college, university and community for the development and implementation of the new programs, including:

- Representatives of Graduate Medical Education and University Hospital, faculty and students for implementation of ACT II, part of the Partnerships for Quality Education, an initiative of the Robert Wood Johnson Foundation.
- RN/BSN director and staff at Christ Hospital in the development of the RN/BSN program on-site at Christ Hospital, which began winter quarter 2005.
- Deans and staff of the College of Nursing and Clermont College for development of BSN program on-site at Clermont College, to begin 2005-06.
- Faculty in development of new nursing education post-master’s certificate program and Novice Nurse Educator Institute and gained approval of Graduate Studies for implementation in summer 2005.
- Faculty and staff in the college and university and Compass Knowledge representatives for the online Nurse-Midwifery and Women’s Health programs. Gained Graduate Council approval for program implementation in fall quarter 2005.
- Gained Graduate Council approval for post-master’s certificate in occupational health nursing.
- Continued assisting undergraduate program directors in revision and implementation of revised undergraduate curriculum. Sophomore and junior levels now implemented and courses being developed for senior level.
- Managed class and clinical scheduling that included recruiting additional faculty and adding clinical sites for increased enrollments in sophomore level (50), junior level (30) and accelerated pathway (16).

Contributed to the development and implementation of activities to achieve UC|21 goals within the college. Participated in process established in the college to develop the college’s UC|21 alignment report. Majority of activities delineated above have contributed to achievement of UC|21 Goals.

NURSING RESEARCH INSTITUTE

Marilyn Sommers, PhD, Associate Dean

Doctoral Program Oversight

This year was one of change for the doctoral program. Interim director Susan Elek, PhD, did an outstanding job in a transition year of supporting curriculum refinement, with the addition of a year-long series of research practica for first-year students. A consensus arose during monthly meetings with the doctoral faculty that further curriculum revision was needed, with a focus on scientific rigor, interdisciplinary collaboration and synthesis of nursing science.
These changes will be considered during the upcoming academic year. The preliminary and candidacy examinations were re-conceptualized to improve the academic excellence of the program and to fit better with program objectives. Amy Pettigrew, with consultation from Dr. Elek, the associate deans, and other interested faculty, submitted a grant to the Health Resources and Services Administration for the program, Nurse Educator Career Development Pathway. This exciting project will provide education and skills to nurses interested in entry-level faculty positions or in doctoral studies with a nursing education concentration.

The doctoral faculty members were quite productive in generating policies and procedures, benchmarks for evaluation and a doctoral student evaluation form during the academic year. A new data base created by Sharon Herzog and consultant Glenn Kent is almost completed, which will allow us to track doctoral students from the time of admission through graduation. With these procedures in place, Dr. Elek now is able to move forward with organizing files, communicating effectively with our current students, and supporting the recruitment and retention of our students. Her recruitment strategies have been quite successful, and we are anticipating the largest doctoral class in the last several years to arrive in the fall of 2005.

**Strategies to Enhance Faculty Scholarly Productivity**

Faculty members have exceeded the stated goal for grant funding by bringing in over $1.7 million in extramurally funded grants this year. These grants include both research and program grants. Faculty achievement in this area has been supported by an ongoing program of development offered by the INR, including consultation and presentations by professor Joanne Stevenson and NINR director Patricia Grady. Biweekly scholarship roundtables were offered, and the INR sponsored a capstone celebration with student and faculty presentations each quarter. Finally, the INR sponsored a course in SPSS attended by several students and faculty. Faculty publications have lagged behind national norms for a College of Nursing as a research institution. New strategies will need to be developed for the next academic year to support faculty efforts in this area.

**Maintaining an Individual Program of Research**

This goal was met with the continuation of funding on two R01 grants, one from the National Institute of Nursing Research and the second from the Centers for Disease Control and Prevention. Income from both grants exceeds $1.5 million with full 53.5 percent indirect costs. The grants also supported three graduate assistants and professional travel, removing the need for funds from the college to support efforts to represent the college at a variety of venues. Below is a list of the deliverables that resulted from this scholarship during the academic year since July 1, 2004. In addition, a concentrated effort was made during May and June to complete an NIH competitive continuation proposal for about $2 million.
HIGHLIGHTS

Faculty received $1.5 million in grants, contracts and special project funding this past academic year.

The 2005 graduates achieved a 97.9 percent pass rate on the North American Pharmacy Licensure Examination and a 100 percent pass rate on the jurisprudence examination, ranking the college second among the four Ohio pharmacy colleges and above the national passing rate of 92.7 percent and state passing rate of 96.3 percent.

The college admitted 96 students, representing a 16 percent increase in enrollment. With this increase in the student body, the college is at capacity for its present facilities.

Due to the increase in class size, the college is recruiting for three new faculty positions.

The increase in students necessitated the expansion of experiential training sites, culminating in partnerships with sites beyond the I-275 loop.

The college continues to refine its doctor of pharmacy (PharmD) curriculum through ongoing curricular assessment.

ALUMNI RECOGNITION

Fred Eshleman, PharmD 1974, received the 2005 Robert J. DeSalvo Distinguished Alumnus of the Year award in recognition of his outstanding career in academia and at the FDA.

Michael Puccini, BSPH 1983, was honored with the 2005 Arthur C. Glasser Distinguished Alumnus of the Year award in recognition of his long-time support to the college and its alumni activities.

Robert Cluxton Jr., PharmD 1972, received the 2005 Skills Laboratory Preceptor of the Year award for his outstanding contributions to the college’s programs.
DOCTOR OF PHARMACY DEGREE PROGRAM

The 2005 PharmD entering class of 96 students was selected from a total of nearly 600 applicants and had an average GPA of 3.65. Nearly one-third of the class had other degrees, and 70 percent of the entering class were female.

The college conferred the PharmD degree on 58 students in June 2005.

The Class of 2005 experienced 100 percent job placement upon graduation.

A two-day, new student orientation was conducted, which culminated in a White Coat ceremony that included participants from the office of the senior vice president and provost for health affairs, the State Board of Pharmacy, Ohio Pharmacists Association, Ohio Society of Health-Systems Pharmacists and the Pharmacy Alumni Council.

PROFESSIONAL AND COMMUNITY ACTIVITIES OF THE PHARM D STUDENTS

Forty-three students attended the American Society of Health-Systems Pharmacists meeting in Las Vegas in December 2005.

Students participated in “An Affair on the Square” on Fountain Square during National Pharmacy Week, providing patient information and advising on medications.

Thirty students attended the Academy of Students of Pharmacy annual meeting in Orlando, Florida.

Fourth-year student Teresa Cavanaugh received two significant awards: (1) She was one of 80 competitors nationally who received the American Society of Health-Systems Pharmacists Student Leadership Award for her leadership capabilities and commitment to health-system pharmacy; and (2) She was selected to participate in the Paul Ambrose Health Promotion Student Leadership Symposium sponsored by the Association of Teachers of Preventive Medicine and received a travel award.

The college conducted a Gateway Drug Education community service program and a Christmas Canned Food Drive.

Pharmacy students were involved with Operation Immunization in partnership with the Kroger Co., volunteering their time to help ease the hassle of the flu shot rush by answering questions and helping with paperwork, thus freeing pharmacists to administer the shots.

In collaboration with College of Medicine students, pharmacy students are assisting with the operation of a clinic in conjunction with a homeless shelter in Over-the-Rhine.
Pharmacy students teamed up with the American Diabetes Association and participated in Operation Diabetes, screening patients at various sites to take blood sugars and blood pressures.

Members of the Student Society of Health-Systems Pharmacists volunteer weekly to serve dinner at a local homeless shelter.

Thirty students raised over $3,000 in the 18-hour American Cancer Society Relay for Life.

Members of Kappa Epsilon assisted with the Special Olympics track and field meet at Lockland Stadium.

Students participated in the Corryville Health Fair, providing short health and wellness talks to community members as well as a poison-prevention talk for kids.

Pharmacy students are working with drug companies, the Council on Aging and local churches to educate seniors on the new Medicare Part D prescription program.

Third-year student Amy Dill received the Spirit of Community Award. She has organized volunteer activities for the Drop-In Shelter, Hospice Center of Cincinnati and the Cincinnati Public School Gateway Drug Education Program.

**MS/PHD GRADUATE PROGRAM**

The research-intensive MS/PhD program admitted six new students for 2005. The college has 12 master’s of science and 23 PhD students.

The college admitted 12 new students into the master’s drug development track. This class continues to attract students from industry, academia and the health professions.

Two graduate students won poster awards at the annual Society of Cosmetic Chemists scientific meeting in Las Vegas.

The establishment of a UC student chapter of the International Society for pharmacoepidemiology has been approved. Jeff Guo, PhD, will serve as adviser.

Two doctoral students received travel awards to the annual meeting of the American Association of Pharmaceutical Scientists in Nashville, Tennessee.

One doctoral student was selected for an Endocrine Society travel grant to present at the annual meeting in San Diego.
One doctoral student received the Susan G. Komen Doctoral Dissertation Award for her research project “Induction of Drug Metabolism and Transport Genes and Activation of Human Pregnane X Receptor by Tamoxifen.”

One doctoral student served as the student representative to the executive committee of the Pharmacokinetics, Pharmacodynamics and Drug Metabolism section of the American Association of Pharmaceutical Scientists.

OTHER COLLEGE PROGRAM ACTIVITIES

The College of Pharmacy’s postgraduate pharmacy residency training program, initiated in 2003, underwent a successful accreditation review by the American Society of Health-System Pharmacists.

The college served as the host school for the annual meeting of the American Association of Colleges of Pharmacy. Attendance at the annual meeting set a new high.

FACULTY ACCOMPLISHMENT AND HONORS

Daniel Acosta Jr., PhD, dean and professor of pharmacology and toxicology, received the Society of Toxicology’s 2005 Enhancement of Animal Welfare Award at the group’s annual meeting in New Orleans.

Dr. Acosta was also elected to serve on the Institute for Healthcare Improvement’s Health Professions Education Collaborative Governing Council.

Pankaj Desai, PhD, associate professor of biopharmaceutics and pharmacokinetics, was elected to a two-year term on the Pharmacology Committee of the AIDS Clinical Trials Group, funded by the National Institutes of Health (NIH). He also served on the Experimental Therapeutics study section of the Department of Defense Breast Cancer Research Program and was a member of the Drug Metabolism Focus Group (past chair) and the editorial board of the American Association of Pharmaceutical Scientists News Magazine.

Karen Gregerson, PhD, associate professor of physiology, is president-elect of the Cincinnati Chapter of Sigma XI.

Gary A. Gudelsky, PhD, professor of pharmaceutical sciences, continues to serve on an NIH study section.

Jeff Guo, PhD, assistant professor of pharmacoeconomics, is chair-elect of the International Society of Pharmacoeconomics and Outcomes Research Asian-Consortium Advisory Committee for 2005–07.
Pamela Heaton, PhD, assistant professor of pharmacy practice, was elected secretary/treasurer of the Economics and Outcomes PRN of the American Colleges of Clinical Pharmacy.

Gerald Kasting, PhD, associate professor of pharmaceutics and cosmetic sciences, co-chaired the 2005 Gordon Research Conference on Barrier Function of Mammalian Skin at Mt. Holyoke College.

Jill Martin, PharmD, associate clinical professor of clinical pharmacy practice, is serving her one-year presidency of the American Society of Health-System Pharmacists, the largest professional group for clinical pharmacists in the country.

Professor Emeritus Wolfgang Ritschel is co-inventor on three patents and coauthor of a paper entitled “Pharmacokinetics of prednisolone in man during acute and chronic exposure to high altitude.” He was also nominated to and exhibited at the International Biennale of Contemporary Art in Florence, Italy.

Andrea Wall, BSPH, RPh, assistant dean for student affairs and associate professor of pharmacy practice, successfully completed the one-year American Association of Colleges of Pharmacy Academic Leadership Fellows Program.

Georg Weber, PhD, associate professor of pharmacology, is the editor of Cancer Therapy: Molecular Targets in Tumor-Host Interactions, 2005.

The Rho Chi Outstanding Teacher of the college was presented to Daniel Healy, PharmD, associate professor of pharmacy practice.

The Outstanding Teachers of the Year for the first three years of the PharmD program were: first year, James Knittel, PhD, associate professor of medicinal chemistry; second year, Daniel Healy, PharmD, professor of pharmacy practice; and third year, Nick Patel, PharmD, PhD, assistant professor of pharmacy practice.
Academic Information Technology and Libraries (AIT&L) creates access to scientific and health information and develops knowledge management systems that enhance learning, teaching, research and patient-care at the University of Cincinnati Academic Health Center.

This mission statement reflects AIT&L’s ongoing commitment to students, research and academic excellence. AIT&L succeeds in its mission by building strong partnerships with other UC departments and affiliates as well as organizations throughout the community and the state of Ohio. AIT&L collaborates with over 40 organizations to provide services and develop products.

**AIT&L at a Glance**

AIT&L consists of the Health Sciences Library, the Nursing Library, the Cincinnati Medical Heritage Center and information technology units that support academic and administrative computing at the Academic Health Center.

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Commitment to Grow and Transform
During the MSB renovation and CARE/Crawley Building construction, AIT&L is physically in eight locations. This has given us the opportunity to develop a new vision for information and knowledge services and to begin the transformation process into the knowledge services provider of the 21st century. In collaboration with partners and stakeholders at the Academic Health Center, this process will accelerate in the coming year. The AIT&L that moves into its state-of-the-art facility in the renovated MSB in 2007 will be a “one-stop shop” for information/knowledge services, complementing the virtual “anytime/anywhere” information access that we will continue to improve.

INFORMATION GATEWAY: ACCOMPLISHMENTS IN 2005
AIT&L strives to be a fully digital gateway for the information needs of its customers—the students, faculty and staff of the Academic Health Center and the community. The merging of library and information technology services that started in 1995 enables us to provide services and products that extend from electronic journals to custom software development. The academic health center’s Integrated Advanced Information Management Systems (IAIMS) grant has accelerated the development of many projects discussed in this report. The projects and services described below have seen significant progress this year.

eLibrary

Electronic Journals (eJournals)
The eJournals page (http://vb4mj4kt9m.search.serialssolutions.com/) on the AIT&L Web site now provides access to all the nearly 15,000 electronic journals to which UC subscribes or which OhioLINK provides, more than doubling the number of journals available last year. The available volumes and issues of each journal are noted, and the full-text articles are just a click away. To find a health sciences journal one can either search for it directly or browse titles by broad subject, e.g., health sciences or engineering/applied sciences. Also, a custom PubMed Web site (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?holding=ucmclib) provides direct links to full-text articles when searching PubMed.

More Old Journals Digitized
AIT&L partnered with University Libraries to purchase older, newly digitized issues of a large number of Elsevier science journals, including 500 health sciences titles. Access to all of these journals is available through the eJournals page on the AIT&L Web site (http://vb4mj4kt9m.search.serialssolutions.com/).

OhioLINK
OhioLINK (http://www.ohiolink.edu/) is a consortium of 85, mostly college and university libraries in Ohio. Many of the 6,400 eJournals provided through OhioLINK are health sciences related. OhioLINK also provides 18,000 eBooks in all disciplines and more than 100 databases, including MEDLINE, Biological Abstracts, Science Citation Index and 16 other health sciences databases.
Scopus
Scopus (http://www.scopus.com/scopus/home.url) is an abstract database that provides access to over 25 million abstracts (back to 1966) from 14,000 journals. Scopus covers all major peer-reviewed medical and scientific journals and is integrated with Scirus Web search to cover the scientific Web. The AIT&L electronic resources Web page (http://aitl.uc.edu/reference/elec/Elecres.cfm) also provides access to Scopus and to many other electronic resources. AIT&L partners with University Libraries to make Scopus available to the UC community.

Electronic Document Delivery (eDoc)
In addition to traditional interlibrary loaning of journal articles, since spring 2004, when bound journals were placed in a limited access location to accommodate MSB renovation, AIT&L has provided digitized articles from journals in the Health Sciences Library. Library staff “deliver” requested articles via the Web (http://aitl.uc.edu/reference/docdel/updated_art_req1.cfm). In 2005, AIT&L staff provided 18,091 digitized articles to customers. This service to faculty, staff and students is free of charge.

NetWellness
In 2005 NetWellness (http://www.netwellness.org/) celebrated its 10th anniversary with a completely redesigned Web site. The redesign updates the appearance of the site, improves navigation, increases visibility through Web search sites like Google and highlights Ask an Expert. Visitor response to the new design has been positive, and use has increased from 1 million to 4 million hits per month. Ask an Expert continues to be unique. Over 380 faculty from UC, Ohio State and Case Western Reserve volunteer their time and expertise to answer visitors’ questions. NetWellness was founded at UC in 1995.

eEducation

Library/IT Training—Online Registration
AIT&L’s library and technology training program continues to offer over 30 classes per month on library, office, Web and course-development software (http://aitl.uc.edu/classes/calendar/). Courses on RefWorks and Scopus were added this year. In addition, online registration now makes registering for classes easy and instantaneous.

New Electronic Classroom
In October, one of the first areas of the renovated Medical Sciences Building opened: a new electronic classroom (http://aitl.uc.edu/reference/classes/classroomdirections.cfm) in E602 near the East Campus mailroom. The new classroom accommodates 21 students and has a state-of-the-art desktop computer for each. Currently all AIT&L classes are scheduled in this facility.

Instructional Technology
The Instructional Technology Center (http://aitl.uc.edu/ITC/) partners with medical faculty to develop multimedia packages to assist in the instruction of complex scientific concepts. This
year the center partnered with numerous faculty members. D.J. Lowrie, PhD, collaborating with the center, produced a multimedia module on embryonic folding (http://aitlvideo/aitl/lowrie/final.swf) now used by first-year medical students. The module includes 3D modeling, audio and user-controlled animations. Laura Wexler, MD, partnered with the center to produce five multimedia modules that present an introduction to electrocardiography. These are used by second-year medical students. Andrew La Barbera, PhD, and Linda Goldenhar, PhD, developed a reproductive physiology series, 64 multimedia modules organized via Blackboard, for the Class of 2008. The collaborators submitted the 64 modules to the HEAL Web repository for digital health education materials (http://www.healcentral.org) and to OhioLINK (http://dmc.ohiolink.edu). The modules were showcased as the “featured resource” at HEAL from March to August 2005. Other medical schools have accessed the modules through those repositories and indicated that they will use them in their curricula.

**Resident Credentialing**
With the department of internal medicine, AIT&L developed a resident credentialing software application to collect and track information needed for the credentialing process. The application allows the department to collect demographic information, pre-residency educational history, training information (such as current and past residency programs and dates), awards and honors received, presentations, examination scores, annual reviews and advisers’ comments, information about interests and plans for the future, and forwarding address information.

**Video Production—Grand Rounds**
AIT&L began a new digital video production service with the departments of psychiatry and internal medicine. This service includes video recording, cataloging, and video-streaming grand rounds, “From the Molecule to the Bedside” events, and fellows’ core conferences. The digital recordings are made available for noncredit and CME credit viewing after the event via the Continuous Professional Development Web site.

**Computer-Based Testing**
On behalf of the College of Medicine, AIT&L plans, implements, and supports computer-based testing. Microbiology, microscopic anatomy and pharmacology classes have joined pathology, gross anatomy and brain and behavior courses in using Testware-Anywhere for online testing.

**eResearch**

**Continuous Professional Development**
Continuous Professional Development (CPD) (http://cpd.uc.edu) replaced eCourses in 2005. The Office of Research Compliance Training and the new Center for Continuous Professional Development envisioned a new product that allows individuals to take online courses, generate training records and transcripts and print certificates, all in an effort to meet the compliance and continuing education needs of the Academic Health Center faculty, staff, and students. AIT&L completed development of four new versions of CPD in 2005.
Additional new features include a centralized training records repository to report against, the ability to set up course requirements for individuals, and online credit card payment for selected courses.

**Institutional Animal Care and Use Committee (IACUC) Inspection**
Partnering with IACUC staff, AIT&L developed an IACUC inspection software application. This application assists committee staff in tracking and recording room inspections, issuing citations for noncompliant situations identified during the inspection visit, and issuing corrective actions for the citation.

**Research Web Sites**
The UC Office of Research required several new or redesigned Web sites. Partnering with the Office of Research, UC Web Communications, Medical Center Public Relations and Communications and UCit, AIT&L contributed to the development of a new and improved “front door” for UC research ([http://www.uc.edu/ucResearch/](http://www.uc.edu/ucResearch/)). Partnering with Office of Research Compliance and Regulatory Affairs and the specific compliance offices, AIT&L developed new sites for human subjects protection, animal use, compliance training, biosafety and radiation safety ([http://researchcompliance.uc.edu/](http://researchcompliance.uc.edu/)). Partnering with the Intellectual Property Office resulted in a new site with a focus on innovation and design ([http://www.ipo.uc.edu/](http://www.ipo.uc.edu/)).

**Protocol Viewer**
Protocol Viewer provides a high-level view of an individual’s animal, biosafety and radiation research protocols, as well as a comprehensive view of an individual’s human research protocols. Protocol viewer is currently available to university administrators, compliance officers and key investigators. In 2006 the next step will be to extend access to principal investigators to view their own protocols. Current features include a list of all protocols by department or investigator, a detailed protocol summary, adverse-event reports, progress reports, modifications and related correspondence.

**eBusiness**

**UC|21 Survey Builder**
David Curry, PhD, professor of marketing, needed a sophisticated survey tool to meet two UC|21 objectives: assess and measure the price elasticity of tuition at UC within various colleges, and understand the price trade offs that consumers may be willing to make when they know where their money is going. Dr. Curry and AIT&L developed an application that interviews UC students using advanced discrete-choice analysis, a type of artificial intelligence that tailors questions on the basis of responses to previous questions.

**Technology Infrastructure**

**Servers/Security**
AIT&L provides electronic resources to its customers using a reliable and stable technology platform. To this end, four new server “clusters” were deployed in 2005. A server cluster
provides continuous access to resources even when one server in the cluster is unavailable. Server clusters have been deployed for file and print servers for the health colleges and the provost’s office, the Academic Health Center’s media repository, the Center for Competency Development and Assessment’s video repository and NetWellness. In 2006 additional clusters will be implemented for Web site, software application and database servers.

**The Numbers**
The numbers below represent transactions to date for select applications:

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<th>Application</th>
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<td>eValuation</td>
<td>92,605 evaluation forms completed</td>
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<tr>
<td>eChecklist</td>
<td>10,396 checklists completed</td>
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<tr>
<td>eSchedule</td>
<td>833,639 hits per month</td>
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<td>eIRB</td>
<td>5,979 human protocols, 9,123 progress reports, 2,703 adverse event reports, 2,838 modifications</td>
</tr>
<tr>
<td>Sirius</td>
<td>309 animal protocols</td>
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<tr>
<td>Biosafety</td>
<td>194 protocols</td>
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<tr>
<td>Radiation Safety</td>
<td>345 authorizations</td>
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<tr>
<td>Cont. Professional Development</td>
<td>16,304 compliance sessions/courses, 4,326 CE sessions/courses</td>
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<tr>
<td>ePAF</td>
<td>215,298 personnel action forms processed</td>
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<td>ePDQ</td>
<td>4,425 personal data questionnaires processed</td>
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<td>eContract</td>
<td>1,611 contracts routed and approved</td>
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<tr>
<td>UC</td>
<td>21 Survey Builder</td>
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<tr>
<td>NetWellness</td>
<td>36.7 million hits per year</td>
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A number of significant gifts and two truly transformational gifts have been made in the past year to support various initiatives at the Academic Health Center.

Donations of $100,000 or more:

- The families of S. Craig and Frances Lindner and Carl and Edyth Lindner have donated $30 million to establish the Craig and Frances Lindner Center for HOPE (Helping Other People Excel). The Lindner Center will offer comprehensive treatment services for both adults and children with psychiatric illnesses.

- A generous commitment of $10 million was made by an anonymous alumnus to name the College of Pharmacy. This gift will provide endowment support for the college’s key research and education initiatives.

- Shirley Tashiro Burke, College of Nursing Class of 1948, gave more than $2 million to establish the Shirley Tashiro Burke Education and Research Endowment Fund.

- Ira A. Abrahamson, MD, volunteer professor emeritus and College of Medicine Class of 1948, has made an additional pledge of $1 million to establish the Ira A. Abrahamson, MD, Endowed Chair of Pediatric Ophthalmology. His purpose for making this gift is to ensure that the ophthalmic programs at UC and the Children’s Hospital Medical Center work collaboratively in perpetuity.

- University Hospital continued its financial support of the College of Nursing with a gift of $870,483 to support minority scholarships, graduate fellowships and the Nursing Co-Op Program.

- Eric and Marke Yeiser pledged $300,000 to the Waddell Center for Multiple Sclerosis. This gift will provide salary start-up support for the director of the center.

- University Radiology Fund of Cincinnati provided a gift of $300,000 to complete funding for the Jerome F. Wiot, MD, Endowed Chair for Radiology Residency Education.
• Gwendolyn Shapiro has made a gift of $250,000 to establish the Nathan Shapiro, MD, Award Endowment Fund in honor of her late husband, a College of Medicine Class of 1937 and former faculty member. This fund will support the research initiatives of an outstanding fellow in the division of digestive diseases.

• The Davis Phinney Foundation donated $125,000 to the Davis Phinney/Donald Krumme Fund. This fund supports Parkinson’s disease research and a one-year clinical research fellowship.

• David and Ginger Warner provided a gift of $101,223 to support the department of ophthalmology’s Quest for Vision Fund.

• Mary Maureen Heekin has provided a gift of $100,000 to establish the Mary Maureen Heekin Liver Transplant Endowment Fund to support the research and education initiatives of the Liver Transplant Program.

• Judith Lucas and Daniel Lucas, MD, College of Medicine Class of 1983, have given $100,000 to establish the Stanley J. Lucas, MD, Exhibit Room at the Cincinnati Medical Heritage Center. The gift honors Dr. Stanley Lucas, College of Medicine Class of 1951, and his passion for the preservation of medical history.

• Jean and Edward Wedbush gave the College of Nursing $100,000 for faculty compensation and student assistance programs.

The Office of Development and Alumni Affairs was also involved in a number of successful events, several of which are highlighted below:

**College of Allied Health Sciences**

The college held its seventh annual PRAISE Conference on May 19. PRAISE (Presentations of Research and Innovative/Scholarly Endeavors) is the college’s celebration of accomplishments in research by undergraduate and graduate students via posters and/or oral presentations. President Nancy Zimpher and Dean Elizabeth King kicked off the morning sessions, while Jane Henney, MD, senior vice president and provost for health affairs, introduced the luncheon and keynote speaker Dr. Paul Bach-y-Rita, professor of rehabilitation medicine and biomedical engineering at University of Wisconsin Hospitals and Clinic. There was a record attendance for the 69 posters and over two dozen oral presentations.

**College of Medicine**

Reunion 2005 was a time of renewing old friendships and sharing fond memories. Celebrating were alumni from the class years ending in “0” or “5.” Alumni from the class of 1935 through the class of 2005 attended the festivities.
Due to construction, all events this year were held at the Kingsgate Conference Center. Friday began with a continental breakfast, followed by an update on the exciting renovation of the Medical Sciences Building (MSB) and the construction of the Center for Academic Research Excellence/Crawley Building. Alumni were then led on tours of the college and the Academic Health Center by current medical students.

This year’s scientific session, “Cutting-Edge Advances in Medical Imaging,” completed the day at Kingsgate. Friday evening, alumni celebrated at individual class parties hosted by local alumni and class representatives in private homes or area restaurants.

Saturday morning alumni enjoyed a continental breakfast before taking a bus tour highlighting the many changes on the east and west campuses. The tour was completed with a guided walking tour of the Cincinnati Children’s Hospital Medical Center. Following the tour, alumni and friends attended a financial and estate planning seminar. Afterwards, alumni were treated to a Cincinnati-style luncheon of Skyline chili and Graeter’s ice cream.

Reunion weekend came to a close with an all-class banquet and dance Saturday evening. The Golden Anniversary Class of 1955 and the Silver Anniversary Class of 1980 were honored. As a special treat, Joseph Nishimoto, ’55, brought with him handmade leis from Hawaii for his classmates and their spouses. The Distinguished Alumni Awards were presented to John Albers, ’55, Frederick Kaskel, ’75, and Ronald Strauss, ’65. Also, special mention was made about the Dean’s Named Scholarship Program. Gordon Stoney, ’55, and his wife, Joanne, were the first to establish a named scholarship through this program.

The Seventh Mini Medical College was held in October at the Vontz Center for Molecular Studies. We had an overwhelming response and had to close registration one week before the event. This four-week peek into the life of a medical student is open to the general public and is designed to be entertaining, educational and easy to understand. College of Medicine faculty presented weekly talks on many health issues and cutting-edge research related to forensic psychiatry, drug abuse, health-care coverage, coma and brain death, plastic surgery, diseases of the eye, the link between the human papillomavirus and cervical cancer, and Parkinson’s disease. A special treat for the students was an optional tour of the architecturally significant Vontz Center. History and construction of the building was explained, and tours of labs provided further insight to our renowned research programs. Mini Medical College, cosponsored by the Office of Development and Alumni Affairs and Communiversity, offered two presentations each Tuesday from 6:30 to 8:30 p.m. Upon completion of the program, students received a Mini Medical T-shirt and a certificate of participation.

Martin Samuels, MD, ’71, was selected to be one of the speakers at the 2005 UC Fall Commencement Ceremony and received an honorary doctorate in science from the university. Dr. Samuels is neurologist-in-chief and chairman of the department of neurology at Brigham and Women’s Hospital and professor of neurology at Harvard Medical School.
College of Nursing

The 2005 Alumni Reunion Weekend was held May 13–14, beginning with a welcome reception for 78 alumni and family members at the Vernon Manor. The luncheon at Procter Hall had 93 attendees, including exceptional representation (22) from the class of 1955. Forty-two alumni and family members toured the college, and about 60 took a guided bus tour of the campus. The celebrating classes contributed over $10,000 to various college projects. The Laura Rosnagle Alumni Scholarship Fund continues to be the favorite fund, yielding a total of $8,000 in scholarship money this year. This scholarship, supported by nursing alumni, was awarded to undergraduates Melissa Jensen, Sarah Woodward, Denise Leone and Ye Yin Yi. The Nursing Reunion Program recognized Janet Grossman, BSN ’67, MSN ’70, DNSc, as a distinguished alumnus. Lu Anne Spurbeck Gerard, BSN ’75, MSN ’82, received the Laura E. Rosnagle Alumnus Service Award.

The annual Scholarship Benefactor Dinner was held Nov. 7 at the Kingsgate Conference Center with over 300 in attendance. The Nursing Board of Advisors attended on behalf of the college, the Board of Advisors Scholarship and the Nightingale Scholarship. Roderick and Barbara Barr attended on behalf of the Barr Scholarship. Jerome and Kathleen Giuseffi represented the family for the Jerome Giuseffi Jr., MD, Scholarship. Lee Shroyer attended on behalf of the Firefighters’ Nursing Foundation. One hundred seventy scholarships totaling over $350,000 were given to deserving nursing students.

Each year, the Nursing Board of Advisors calls upon physicians, patients, family and friends to nominate a nurse from the Greater Cincinnati area who exemplifies the spirit of caring embodied by Florence Nightingale. Established in 1992, this year’s Florence Nightingale Awards Dinner was held on April 20 and recognized 15 individuals out of over 400 nominees for their excellence in the delivery of direct patient care. The event was attended by over 900 and raised $28,500 for the Nursing Board of Advisors Scholarship Fund.

UC Alumni Association affinity monies supported Nurses Week with a luncheon on May 4 for 250 students and faculty. The Nursing Alumni Executive Committee donated awareness bracelets and several baskets for the event. The luncheon was incorporated into Nurses Week to create an awareness of the Alumni Association and show an appreciation for nurses. The UC Alumni Association InCircle network tool was also demonstrated during this week to 140 senior class members. UC Alumni Association affinity funding was also used for the recruitment of nursing students. LaVern Sutton, associate to the dean for recruiting and marketing, set up a program that employed nursing student ambassadors to recruit 14 Hughes High School students who had chosen a health-care focus. The project’s goal is to recruit nursing students and create awareness among them how alumni assisted them in achieving their health-related career goal. Eleven of the students attended opted to study at UC.
College of Pharmacy

The College of Pharmacy hosted the four-day annual meeting of the American Association of Colleges of Pharmacy (AACP) July 10–13. This year’s meeting, “Building Bridges to Quality,” was attended by over 1,000 pharmacy educators and guests from across the United States. Jane Henney, MD, senior vice president and provost for health affairs, moderated a panel on the diabetes epidemic. Pharmacy faculty member Michael Doherty, PharmD, was also a member of the panel.

Almost 200 alumni and friends attended a retirement party to honor Associate Dean Robert E. Lee, PhD, on Sept. 17 at the University Faculty Club. Dr. Lee was presented with service and a retirement awards for over 30 years’ service at UC. He was further honored with the announcement that an endowment has been established in his name to support student travel to national and professional meetings.

The College of Pharmacy held its first ever Alumni Reunion prior to the Homecoming football game against Big East rival Connecticut on Saturday, Oct. 15. A reception and tour of the college was held in Wherry Hall, and another gathering was held on the Campus Green.

UC Cancer Center/Barrett Center

The annual “My Mother, My Daughter, My Self” Breast Cancer Luncheon was hosted at the Hyatt Regency on Sept. 14. The 2005 luncheon was cochaired by Lucinda Heekin and Sally Leyman. Eileen Barrett served as the corporate chair for the luncheon. Invited guest speaker Lillie Shockney, co-founder and vice president of “Mothers Supporting Daughters with Breast Cancer” and administrative director of the Breast Center at Johns Hopkins, spoke to 750 guests on “Surviving Breast Cancer with Hope and Humor.” This year also introduced two new components to the luncheon: an informative seminar by four of the center’s doctors and an exhibitor area featuring both vendors and community resources. The luncheon raised about $150,000, including a donation from each vendor. Proceeds from the luncheon will provide medical technology equipment for the breast center.

The UC Cancer Center/Barrett Center received $50,000 from the 2005 AVP Nissan Series Cincinnati Open Pro Beach Volleyball event, held June 30–July 3. GE Transportation was the major sponsor of the event, providing a large core of volunteers and promoting breast cancer awareness.

UC Cancer Center/Barrett Center was the beneficiary of over $50,000 raised by the Western & Southern Financial Women’s Open ATP, held July 15–23. Half the proceeds will go to patient-care initiatives at the Barrett Center and half to research at UC Cancer Center.

William Barrett, MD, has created a Speaker’s Bureau, which will offer local corporations an opportunity to have a Barrett Center physician visit their office to conduct on-site education and exams. Ohio National Foundation donated $50,000 toward this initiative.
Cincinnati Magazine partnered with UC Cancer Center to create the Partners Card, a new fundraising program with a return of 100 percent of proceeds. Individual shoppers bought a Partners Card shopping pass for $50. The card entitled shoppers to a 20 percent discount on purchases made Oct. 29–Nov. 6 at participating merchants. In addition, the shopper received a free, one-year subscription to Cincinnati Magazine. The Partners Card committee, led by Chris Ohmer of Cincinnati Magazine and Glenda Raley of Ulmer & Berne, worked diligently to connect with over 150 merchants in the Greater Cincinnati community. The initiative raised over $16,000.

“A Night of Silence and Singing” silent auction is a fundraising and awareness event to raise money for appendical cancer research done by Andrew Lowy, MD, of the UC Cancer Center. Appendical cancer survivor and patient of Dr. Lowy, Traci Wansack, spearheaded this new event for the UC Cancer Center. The dinner/silent auction was held Oct. 22 at Vito’s Café in Ft. Thomas, Ky. The restaurant hosted almost 80 guests and raised more than $8,000. The proceeds will benefit the Gastrointestinal Research Fund.

UC Cancer Center was selected as the beneficiary of the fourth annual Greater Cincinnati Holiday Market Show. Hart Productions donated a portion of all admission tickets sold. The event featured more than 100 boutiques and artisans from around the United States selling one-of-a-kind jewelry, fashion, décor and delicacies. UC Cancer Center received $2,000 from this event.

UC Cancer Center/Barrett Center and the College of Medicine, in conjunction with University Hospital, hosted its second annual UC Community Cancer Education Day on March 25 at the Kingsgate Conference Center. This event is a free open house for the public on all aspects of cancer prevention, diagnosis, care and research. The event is organized by cancer type, with particular emphasis on cancers of the colon, lung, breast and prostate. Physicians and scientists from the College of Medicine discussed their specialties and answered questions—publicly or one-on-one—with ongoing video presentations and exhibits to supplement each talk.
Cincinnati Creates Companies has had three successful years of starting new technology-based companies and has become regarded as a regional asset. Twenty-six start-up companies and pre-company teams have completed the program and 10 more are currently in it.

Wrote and received approval for a UC|21 proposal to start a new program called “Launch Pad,” which will provide seed funding and business mentoring to start new revenue-generating programs or add value to early-stage technologies to increase their commercialization potential.

Provided targeted grant development support to UC’s Third Frontier proposals

Submitted a pre-seed fund proposal to the Third Frontier. This is a UC-led proposal, in collaboration with Ohio University, Miami University, BIO/START, Fort Washington Partners and Blue Chip Ventures.

Dorothy Air, PhD, associate senior vice president for entrepreneurial affairs, was appointed to serve as a loaned executive from UC to CincyTechUSA, the region’s technology council. This provides a strong connection between the university and industry and expands the university’s network of resources, while also contributing to the growth of technology initiatives and company growth in the region.

Led effort to complete master agreement between UC and P&G to facilitate working relationships.

Developed and chaired implementation process for UC’s Showcase 2006.

OVALS (Ohio Valley Affiliates for Life Sciences), led by the University of Cincinnati, in collaboration with the University of Kentucky, the University of Louisville, Wright State, Ohio University, the Air Force Research Laboratory, BIO/START, Lexington United and Greater Louisville Health Enterprise, is now in its fourth year of creating visibility for life sciences in the region. The effort was recognized in a front page article in the Chronicle of Higher Education.

Organized a highly successful two-day SBIR and commercialization workshop for faculty

Organized two orientation programs to introduce Chamber of Commerce staff to UC’s research programs
OFFICE OF GENERAL COUNSEL—EAST

- For compliance with HIPAA, UC’s physician practice plans have been combined into an entity identified as the “UC Physicians Affiliated Covered Entity” (UCP ACE). All activities conducted by the UCP ACE workforce are subject to HIPAA policies and procedures. All UC personnel who obtain or use protected health information from the UCP ACE in order to provide support functions to the UCP ACE do so within the provisions of a HIPAA Business Associate Agreement between the university and UCP ACE. The university has designated itself a “Hybrid Entity,” meaning there are units within the university that are covered under HIPAA and other units that are not.

INSTITUTE FOR THE STUDY OF HEALTH

Overview
During 2005, the Institute for the Study of Health continued its restructuring. Our overall objective is to become a more integrated and effective component of the clinical research enterprise at the Academic Health Center.

Early in the year, a strategic and business plan was developed to guide us in achieving this objective.

Our vision is:
“To be the premier center for population-based and clinical research dedicated to improving the health of individuals and communities.”

Our mission is:
“To drive innovation in health systems and clinical practice through the scientifically rigorous study of health and health care and the education of health-care researchers ...”

Four strategic goals will guide our efforts, including enhancement of our research activity through judicious expansion of our faculty, enhancement of our mentoring activities through expansion of this service, development of a health informatics program, and enhancement of our research infrastructure, including upgrading and expansion of our computing resources.

Scholarly Activity
The institute faculty and fellows have maintained a high level of scholarly activity, generating new knowledge as reflected in funded projects, published articles and research presentations.
Research and Training Awards
In terms of active grant awards (newly funded and ongoing), faculty and staff were principal investigators on 14 projects with sponsored funding of $1,742,600 in direct costs. In addition, they were collaborators on 16 projects with other medical center units, generating additional support of $513,700 in direct costs for the institute alone. Submitted grant applications include 23 projects totaling $14,222,400 on which institute faculty are principal investigators, and an additional 38 grant applications totaling $34,570,600 on which institute faculty are collaborators. Our collaborators on active awards and submitted grant applications include various departments and divisions within the College of Medicine. Funding sources include the National Institutes of Health and nongovernmental sources such as the John A Hartford Foundation and Foundation for Informed Medical Decision Making.

Publications and Presentations
Institute faculty, fellows and affiliated faculty had 66 peer-reviewed articles and book chapters published in electronic or print professional journals. In addition, they published 18 abstracts and gave 39 presentations regarding their research at national meetings of professional societies.

Other Meritorious Achievements
Faculty members had a number of other achievements that were recognized locally, nationally and beyond. Among these:

**Dr. Arterburn** was first runner up for the Best Paper/Poster Award in the Visiting Professor Program in Geriatrics and Gerontology and he was also a finalist for the Milton W. Hamolsky Junior Faculty Research Award Finalist; both at the 2005 Society of General Internal Medicine national meeting.

**Dr. Embi** was a finalist for the 2005 Diane Forsythe Award in Medical Informatics at the 2005 American Medical Informatics Association national meeting.

**Dr. Page** was a finalist for the Healthcare Hero Award (*Cincinnati Business Courier*). He also received the Heart and Stroke Initiatives Communications Award (AHA volunteer with most hours speaking in the community) from the American Heart Association, Southwest Ohio Affiliate.

**Dr. Tsevat** was appointed an assistant dean in the College of Medicine.
Proposed New Directions
In the coming year, the institute will continue building its research environment. Specifically, we will be seeking new faculty in those disciplines that we have targeted for development: health economics, health informatics and public health. We will also seek a greater presence in the clinical research enterprise at the Academic Health Center.
LABORATORY ANIMAL MEDICAL SERVICES (LAMS)

Douglas Stone, DVM, Director

UC’s animal facilities are accredited by the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC). The program for animal care designed and implemented by the Laboratory Animal Medical Services personnel was praised by the AAALAC site visitors. The use of the latest state-of-the-art equipment to house mice has resulted in the elimination of pathogens from the mouse colonies. Freedom from pathogens will improve the quality of research conducted by investigators and help maintain AAALAC accreditation.

LAMS management is reviewing use of disposable, single-use HEPA ventilated rodent caging systems. This new system may be very cost effective since it will eliminate the washing and autoclaving of cages and water bottles. These cages will first be used in a pilot study in the Health Professions Building.

The water system for rodents at the Genome Research Institute (GRI) has been carefully reviewed by internal and external experts. The consensus is that the quality of the water meets professional standards. The delivery systems have a number of weaknesses that will be corrected. The GRI water system was installed by three different groups. Since these groups worked independently, many parts within GRI are not compatible. For example, one group used brass fittings that are damaged by chlorine, which we use to keep the drinking water free of pathogens. Evaluation and a proper course of action will be determined to correct these weaknesses.

The training program for all personnel is being reviewed. Human errors will frequently result in mistakes that could result in the loss of animals. Good training will not totally eliminate mistakes, but it will greatly reduce them.

A bar coding system is being installed to increase efficiency.

Douglas Stone, DVM, became the new director of LAMS in February 2006. His experience and leadership skills will help the LAMS staff provide outstanding animal care service in the years to come.
Medical Center Finance and Administration

- Managed rollup of the annual budget process and presented data to the senior vice president and provost for health affairs, the dean of the College of Medicine and the vice president for research. This rollup information represented a $657 million expense budget for all colleges and units within the Academic Health Center and office of vice president for research, of which $240 million is related to practice corporations. MCFA conducted over 50 budget meetings with colleges, departments and other units within the Academic Health Center. Recommendations were based on the outcome of the budget meetings. Continual variance meetings were conducted with all basic science departments and academic units to monitor financial progress.

- Coordinated all East Campus activities related to UCFlex, which included the successful implementation of the university financial system as well as participation in planning for the Human Resources (HR) system.

  Assisted East Campus units with assembling cost centers and oversaw the role assignment process. We participated in all Financial Information (FI) and HR UCFlex workshops, road shows and other sessions. Efforts were made to provide excellent training and assistance to East Campus UCFlex users on individual transactions and reports. This included “Super User” training. Training materials were designed with useful tips to assist users. Departments were assisted with redesign of business processes that resulted from UCFlex.

  Encouraged continuous participation from all users within the Academic Health Center to ensure our needs were being met. Improvements were continually suggested as UCFlex was being designed and implemented.

  Received high praise from the UCFlex team throughout the year for the efficient and timely work that came from the Academic Health Center.

- Continued to oversee all Academic Health Center non-faculty personnel issues (excluding research titles). This included offering assistance to departments regarding personnel policies and procedures, processing and approving recruitment and affirmative action paperwork, and maintaining the open position database. Worked closely with departments and administrators in the development of job descriptions for positions and performed salary research. Most important, MCFA acted as a liaison between HR and departments on difficult personnel issues. Various searches were coordinated within the Academic Health Center.
- Continued to provide fiscal oversight for all areas and units. Began functioning as the business office for the vice president for research during this fiscal year as well. The variance meeting process with these areas and units has begun as well.

- Assumed additional IT responsibilities.

The year thus far has been a very successful and productive one for MCFA.
The public relations and communications office provides strategic and comprehensive internal and external communications services for the University of Cincinnati Academic Health Center. In addition to general public relations counsel, the department coordinates media relations efforts, produces a variety of in-house publications such as *Findings*, assists with the creative direction of AHC Web sites, and coordinates the production of a wide variety of art and design projects. Additionally, the office’s Communications Services unit provides the center with sophisticated duplicating services as well as art and design, photographic and videographic services.

A few of the accomplishment achieved by the public relations and communications office during 2005 include:

- The addition of three public information officers to more broadly publicize the achievements of faculty and staff
- Launching “E-Health News Daily,” a weekday morning e-mail distributed to all Academic Health Center faculty and staff highlighting news articles about the institution and its affiliates, in addition to major health news stories
- Assuming media relations responsibilities for UC Physicians and the university research office
- Conducting a readership survey for *Findings*, the monthly faculty and staff publication for the Academic Health Center ([http://healthnews.uc.edu/publications/findings/](http://healthnews.uc.edu/publications/findings/)), and launching a redesign of the publication and improving distribution to all faculty, staff and students
- Enhancing the office’s media monitoring capabilities to better capture news articles and reports about the Academic Health Center
- Providing staff support for the work of the Academic Health Center Branding Committee
- Beginning initial work with AIT&L on the development of enhanced Web communications throughout the institution
- Offering additional education to departments throughout the institution regarding university branding guidelines
- Instituting “UC Health Line,” a weekly news release featuring a UC Academic Health Center faculty member and containing timely consumer health information
- Establishing close collaborative working relationships with fellow communicators and marketing professionals at University Hospital, the Health Alliance, Cincinnati Children’s Hospital Medical Center, and several AHC departments
The past year has been an extraordinarily ambitious one for the public relations and communications office. Known news story placements coordinated by the office during 2005 totaled more than 2,000. The office distributed 125 news releases in 2005, a more than 81 percent increase from 2004, when 69 news releases were distributed.

The following are a few examples of significant national news media placements that either discussed research or program at the Academic Health Center or included quotes by faculty and staff of the institution. All were coordinated by public information officers in public relations and communications, and many also appeared in numerous media outlets and in news broadcasts across the country.

**Scott Belcher, PhD**, pharmacology and cell biophysics. Quoted in a United Press International article about a common chemical compound found in plastic food containers that disrupts brain development

**Jonathan Bernstein, MD**, immunology/internal medicine. Quoted on CNN concerning dangers from mold in Katrina-flooded houses.

**Bonnie Brehm, PhD**, College of Nursing. Quoted by Reuters about low-carb diets.


**Bethanne Brown, PharmD**, College of Pharmacy. Quoted in *The Los Angeles Daily News* about medications that don’t mix.

**Robert Cluxton, PharmD**, and **Pamela Heaton, PharmD**, College of Pharmacy. Quoted in a *USA Today* article about drug warnings on the medication labels.

**James Fagin, MD**, endocrinology. Quoted in *The Boston Globe* about how treatment to prevent a recurrence of cancer can be given before the disease is detected.

**Margery Gass, MD**, OB/GYN. Quoted by *The Los Angeles Times* about the testosterone patch.

An obituary on **Tibor Greenwalt, MD**, former head of UC’s Hoxworth Blood Center, appeared in *The Washington Post*.

**Sue Heffelfinger, MD, PhD**, pathology and laboratory medicine. **Katie Brown, PhD**, and **Susan Pinney, MD**, environmental health. Featured in *Cincinnati Magazine* on their breast cancer and the environment study.
James Herman, PhD, Ulrich-Lai Yvonne, PhD, Dennis Choi and Michele Ostrander, PhD, psychiatry. Quoted in BBC and UPI news reports on their study showing that sugary snacks could cut stress.

George Leikauf, PhD, environmental health. Quoted by Dow Jones News about reduced-risk cigarettes.

Christopher Gordon, MD, surgery. Featured in Cosmetic Surgery Times about his trip to Venezuela to help identify an undiagnosed genetic disease that caused extreme facial deformities in a family.

Pat Ryan, PhD, environmental health. Featured on the Department of Health and Human Services’ “Health Beat” radio show and in The Washington Times on his study on infant wheezing related to diesel emissions.

Alex Lentsch, PhD, surgery, and Hui Shen, PhD, cancer biology. Quoted in New Scientist on their discovery that a malaria-fighting gene may speed cancer growth.


Susan Montauk, MD, family medicine. Quoted in The New York Times about how to wisely choose a pain killer.

Henry Nasrallah, MD, neurosurgery. Quoted in Forbes magazine about Katrina’s mental toll.

Arthur Pancioli, MD, emergency medicine. Quoted in Kiplinger.com about stroke centers having the potential to improve outcomes and decrease the length of a hospital stay following a stroke.


Walter Smitson, PhD, Central Clinic. Quoted by the Associated Press about coping with stress in the workplace.

Jeffrey Susman, MD, family medicine. Quoted in Ladies Home Journal about how walking helps back pain.

Matthias Tschöp, MD, psychiatry. Quoted in numerous media outlets, including The Boston Globe, Chicago Tribune, Dallas Morning News, Forbes Magazine, Los Angeles News and The New York Times on his research that showed that eating too much of the fruit sugar fructose leads to obesity.
Randall Wickett, MD, UC College of Pharmacy. Quoted in *The Seattle Times* and *Scientific American* about how sunless tanning creams can be a healthier alternative to the sun.

Steve Woodle, MD, surgery. Featured in a *USA Today* article about his experiences as both a transplant surgeon and a liver transplant recipient. Also featured in a CNN hour-long special on the matched-pair kidney donation program.

Zahida Yasin, MD, internal medicine. Quoted by local media and TV stations nationwide on her efforts to improve care for adult sickle cell anemia patients.

Additionally, several Academic Health Center faculty are typically quoted in local news reports each day.

Progress in improving internal and external communications in the Academic Health Center will continue throughout 2006. Among projects under way are the launch of an expanded news Web site providing an unprecedented amount of information and content for news media, staff and the public; further enhancements in Web communications, including new highly functional and attractive Web sites for the Academic Health Center, College of Medicine and UC Physicians; the launch of a quarterly university-wide research publication; a readership survey and enhancements to the College of Medicine’s “Dean’s List” weekly electronic publication; and the creation of an electronic publication for College of Medicine alumni to help keep them connected with the institution.

**Self-Supporting Communications Services**

The communications services cost-recovery centers continue to upgrade skills and services to meet the needs of Academic Health Center faculty, staff and students for presentations, photography, videography, duplicating and design.

**Duplicating Services**

In 2005 Academic Health Center duplicating services continued its expansion into digital reprographics. An investment was made in the new, cost-efficient Business Color technologies with the purchase of an Ikon 8550, a 50-copies-per-minute copier/printer, which has enabled duplicating services to offer quality, full-color prints for as little as 19 cents each.

Duplicating has continued to increase its client base, and thanks to the presence of the copy center in Dyer Hall in the College of Education, is becoming acknowledged as a university-wide service center. Duplicating’s campus-wide presence includes copiers at the GRI, Raymond Walters College, University Point and Clermont College. 2005 also saw the return of the entire College of Nursing copier system, as well acquisition of the copier system for the College of Applied Science at French West. We have also started to do work for non-university clients, including major course-pack work for Scarlet Oaks, and we have copiers at
Christ, University and Good Samaritan hospitals. And thanks to Business Color technology, we produce programs, posters and flyers for over a dozen community and semiprofessional theaters. This larger university footprint helped duplicating services continue to meet the day-to-day reprographic needs of the Academic Health Center without any major rate increase.

**Art and Design Services**
Art and design services provides numerous products to the Academic Health Center and university community, including posters, logos, flyers, charts, graphs, invitations, illustrations, brochures, backdrops and signage projects.

In 2005, art and design services again saw growth in designing and/or printing wide-format prints for scientific poster sessions. Since it offers the only wide-format printing services at UC, art and design services has done a tremendous amount of posters and signage throughout the entire university, including printing for Main Street, Langsam Library, the UC bookstores and the new Campus Recreation Center.

Projects completed last year include brochures, signage and posters for the first Cancer Education Day, brochures, invitations and RSVPs for the Institute for Policy Research lecture series, the Neuroscience Graduate Program brochure and posters, the Diabetes Center Informational card, the Greater Cincinnati Health Council’s Solutions 2005 program, as well as publications such as *Medical Center Findings*.

Art and design services continued to work with photography services in designing the format for their class composite work. They also continued to provide Web page design and maintenance for areas such as Academic Heath Center alumni and the department of otolaryngology.

**Photography Services**
As part of the restructured communication services, the photo department continued to provide high-quality clinical and research photography to Academic Health Center researchers, teachers and medical staff. Along with producing the annual graduating class composites for the colleges of medicine and nursing and all 12 College of Engineering departments, the photography staff also began producing all departmental staff and faculty photos for use on Web directories both here at the Academic Health Center, and for medical groups and practices outside the university.

This past year, our photography staff provided images to outside entities such as *Science Magazine*, the *Louisville Courier Journal, Nature, Cincinnati Enquirer, Cincinnati Post, Business Courier, Cincinnati Magazine, Cincinnati Herald*, Cincinnati Chamber of Commerce and numerous national medical journals, as well as providing the still photos for several national news stories for regional and national distribution.
Closer to home, the photo department supported all the colleges, departments and affiliates of the Academic Health Center, providing public relations, recruitment and special-event images for both electronic and print publications.

**Digital Video Services**
Digital video services provides university-wide clients with on-location and studio-based videography, digital editing and tape/DVD duplication. Clients also include Cincinnati Children’s Hospital Medical Center and the Health Alliance. Some examples: videotaping of an axial lumbar interbody fusion surgical procedure at Christ Hospital for distribution to the media, the State of the Academic Health Center address, guest and departmental lectures, conferences, press conferences, etc.

From a production standpoint, video services saw increased use of the Bravo II Disk Publisher to burn multiple copies of disks.
Fred Hamilton continues to cover this office as acting director. The search for a permanent director was previously unsuccessful and will resume again soon. This position would report to Sandra Degen, who was appointed vice president for research in 2005.

The newly established Compliance area has begun extensive audits.

The federal government, under the Agricultural Bioterrorism Act and other regulations, controls the possession, use, and transfer of so-called select agents and toxins with importance for human health and national security. Registration with the federal government and the implementation of comprehensive safeguards for the use of these agents was required by November, 2003. The university completed its registration process with the Department of Agriculture’s Animal and Plant Health Inspection Service (APHIS) and the final certificate of registration was received on March 29, 2005.

The IRB will begin 2006 under the direction of Mary Jo Vesper.

Ohio Department of Health regulates use of radiation sources within the state. To ensure compliance with the regulations, UC developed the Radiation Control and Safety Program, which covers the use of radiation sources on all UC campuses and at several affiliated organizations. In accordance with regulatory requirements, UC holds two licenses that authorize the possession and use of radioactive material for research and development and clinical diagnostic and therapeutic purposes, and 11 registrations that allow the possession and use of X-ray machines and other radiation-generating equipment at specific locations under the program. In 2005 the university successfully underwent eight inspections performed by Ohio Department of Health. Each inspection covered different facilities, licenses and registrations covered by the program.
UNIVERSITY HEALTH SERVICES

University Health Services (UHS) operates two clinics for students and employees, a fitness center, a wellness center, a faculty, staff, and student assistance program, disability management and student health insurance programs, and the university’s environmental health and safety program. UHS has about 75 full- and part-time employees. Its Web page is http://www.med.uc.edu/uhs. In calendar year 2005, 34,309 patients were seen in the two clinics, an increase of 13 percent from the 30,433 patients seen in 2004. This was due to an increase in the number of students being tracked for immunization at Holmes, improved tracking at Holmes, and an increase in the number of students coming to the clinics. UHS personnel serve on 46 university committees.

Athletic Medicine

http://www.med.uc.edu/uhs/Athletichomepage.html.

UHS continued to provide primary medical care for all varsity athletes. An on-site physician was provided for all UC football games and practices, men’s and women’s home basketball, soccer and volleyball games and many away basketball games.

W. Kenneth Stephens, MD, coordinator of athletic medicine and team physician, precepted one family medicine resident and three student athletic trainers on primary sports medicine rotations. He also provided a sports medicine elective for sophomore medical students.

Dr. Stephens continued as the medical director for the athletic training curriculum program offered through the College of Education and taught a three-hour required course on “Advanced Athletic Training.” He also gave presentations titled “Update on Concussion,” “Sudden Death in Athletes,” “OTC Drug Use” and “Evaluation of the Elbow.” He was re-elected president of the board of directors of NOCSAE, which provides standards for athletic equipment and provides funds for research.

Environmental Health and Safety

http://ehs.uc.edu

Environmental Health and Safety (EH&S) directs UC’s operations in environmental engineering, industrial hygiene, waste management, laboratory safety and compliance with federal Environmental Protection Agency (EPA), Occupational Safety and Health Administration (OSHA) and state and local regulations. EH&S serves as a technical resource to assure that UC operations are conducted in a safe and environmentally sound manner. Further, EH&S assists individual organizations and corporations in assuring compliance with
all applicable UC safety policies and regulatory health and safety requirements. It serves as the UC liaison with federal, state and local agencies. During calendar year 2005, 37,602 service requests were processed. This represents a 16.9 percent increase from calendar year 2004. EH&S IS is represented on 15 safety committees. Jan Utrecht cochairs UC’s AAUP/Administration Environmental Oversight Committee.

Statistical Overview

- 156,690 pounds of hazardous and regulated materials disposed of at a cost of $174,250.
- 159,743 pounds of infectious waste disposed of at a cost of $81,130, an 11.7 percent increase in the amount of infectious waste generated from the previous year.
- Approval received from the University Recharge Council for the new Chemical Waste Recharge Program; new rates and on-line billing program for cost recovery implemented effective July 2005.
- Provided one dedicated full-time EH&S industrial hygienist on the MSB expansion and renovation project.
- Completed 768 audits of 15,000 square feet of laboratory and support service space; audited about 20,000 square feet in 52 laboratory areas to fulfill grant application requirements.
- Investigated all 359 injuries and illness reported by faculty, staff, students, contractors and visitors and coordinated corrective actions with supervisors and departments. One hundred forty-two of the incidents were OSHA recordable.
- Held Web-based safety training sessions covering various occupational safety and health topics. Attendance by 4,872 faculty, staff and students was an 11.8 percent increase over the previous year.
- Developed 16 new Web-based environmental health and safety programs specifically for facilities management and construction activities.
- Reviewed drawings for $145 million worth of actual capital expenditures.
- Reviewed 158 asbestos- and lead-abatement projects totaling about $2.3 million.
- Audited 19 construction areas for compliance with federal, state and local environmental and site regulations.
- Submitted mandated air emission reports were to the EPA and Hamilton County.
- Conducted a safety audit for East Campus and Central Utility plants.
- Reviewed 194 research protocols and conducted 2,121 risk assessments for the Institutional Animal Use and Care Committee, a 10.5 percent increase in risk assessments from the previous year.
- Conducted a Life Safety inspection of all UC buildings.
- Participated in the Health and Wellness Fair and Benefits Fair to promote safety and health among faculty, staff and students.
- Completed a ventilation assessment (489 room ventilation surveys) for AAALAC inspection and site accreditation scheduled for spring of 2006.
- Continued monitoring support during Academic Health Center expansion and renovation.
- Revised the formal business plan for the university-wide chemical tracking system.
Holmes Health Clinic

http://www.med.uc.edu/uhs/holmesclinic./healthserviceseast.html

- The Holmes clinic continues to provide primary-care services to students and to UC employees with work-related illnesses and injuries. In 2005, 9,821 patients were seen at Holmes. This is a 58 percent increase from the 6,213 patients seen in 2004, mainly due to tracking a larger number of students, better tracking, and recording students who were having TB skin tests read.
- UHS continues to provide 24/7 telephone coverage for students who have urgent after-hours medical concerns. Students are referred to the University Hospital emergency room when the clinic is closed.
- The clinic contracts with several UC departments and outside corporations to provide immunizations, TB tests, and post-exposure evaluation and treatment of employees with possible bloodborne pathogen exposures.
- Employees provided several presentations and lectures for College of Medicine students.
- In 2005, 54 persons were evaluated for bloodborne pathogen exposures, compared with 36 in 2004 and 60 in 2003. Nineteen (35 percent) of the exposed persons were medical students.

Information Technology

- The Information Technology (IT) support unit responded to 1,500 requests, including desktop support, database development, Web updates and server administration.
- IT replaced 20 percent of UHS workstations, supported the installation of a Fuji SmartCR digital X-ray system, dual-head Planar medical imaging monitors and E-Film viewing software, and created 220 new Web database accounts.
- Implemented HIPAA information security policies and online training programs
- Deployed two new servers for redundant cluster-enabled file and print services and improved desktop management.
- Supported university implementation of SAP R/3 for financials and asset management.
- Backed up all UHS files daily so they will not be lost in the event of a disk failure. Weekly backups are stored off-site. We continue research on additional cost-effective redundancy.
REACH (Responsive Employee Assistance Can Help)

http://www.med.uc.edu/uhs/reach.html

- REACH has increased its services to faculty, staff and students at the main, Raymond Walters and Clermont campuses, as well as to second- and third-shift employees and faculty.
- Staff continue to provide consultation to various deans, department heads, union representatives and supervisory staff.
- REACH staff are members of the Employee Assistance Program Association (EAPA)
- REACH provided critical-incident stress debriefings to workgroups and students following several tragedies and also manned booths at the Wellness and Benefits Fairs and the International Student Orientation.
- REACH staff provided 689 counseling hours to faculty staff and their families and 475 counseling hours to students.

Scioto Health Clinic

http://www.med.uc.edu/uhs/sciotoclinic/homepage.html

- The Scioto clinic provides primary medical care, women’s health, dermatology, mental health and physical therapy clinics, employee health services, optometry services, allergy injection services, health screens for international students, sports medicine and team physician services for all varsity athletes and billing services for UHS.
- In-house supporting services include a CLIA-certified, moderately complex lab, X-ray services and an apothecary-style pharmacy.
- Scioto served as a clinical site for training internal medicine residents and nurse practitioner students in phlebotomy and blood pressure technique.
- Staff participated in several student and employee health fairs, new student orientation and presentations to students on health topics on the main campus and Raymond Walters campus.
- UHS successfully acquired and administered flu vaccine for students and at-risk staff.
- Scioto Clinic implemented the Med Buddy 24/7 Web-based patient communication system.
- Staff provided lectures in courses at the College of Nursing’s advanced practice program.
- Scioto Clinic provided space for Hamilton County’s free HIV testing program.
- The lab performed 14,060 procedures, the pharmacy filled 21,258 prescriptions, and the mental health group provided 888 counseling/treatment sessions
- Total Scioto patient visits for 2005 year was 24,488, a 1 percent increase over 2004’s 24,220.
Student Health Insurance Office


- The policy book, waiver and enrollment cards, and petition and claim forms are available on the Web.
- Due to the increased use of medical care, rising medical costs and high claims, the SHI single-student premium was increased from $365 to $385 for the 2005–06 academic year.
- Students were given one-time exceptions to retroactively waive the insurance if they didn’t waive before the deadline. This resulted in fewer policies being sold (7,790 policies for fall 2006), but fewer complaint calls.
- The UniverSIS “Quick Win” project, expected to be implemented in fall 2006, will include a “smart intruder page” to make students aware of the SHI waiver process.
- Distance-learning programs are increasing at UC. SHI is working with UCIT to identify distance-learning students so that they will not be charged for SHI.
- The SHI office assists with orientating new students and provides presentations throughout the year to the various departments and campuses.

UC Wellness Center

www.uc.edu/wellness

- The Wellness Center coordinated UC’s seventh annual Breast Cancer Awareness Month and the sixth annual UC Health and Wellness Fair with 60 booths and 2,000 participants.
- The Wellness Center provided 65 programs and workshops for 1,383 students, faculty and staff on alcohol, tobacco, nutrition, sexual health, stress management, body image, exercise and other health and wellness related topics.
- The Wellness Center sponsored lunch-and-learn programs, an alcohol education program, and health and wellness awareness events, including Safe Spring Break, Body Acceptance Week, Stress Awareness Days and Random Acts of Kindness Days, and sent a quarterly health and wellness newsletter to 900 individuals.
- The Wellness Center continued to offer smoking cessation classes and to work with the tobacco advisory committee to implement new policies and initiatives.
- Friday Night Live provided UC students with non-alcohol on-campus events on Friday nights throughout the school year.
University Employee Disability Management Services

http://www.med.uc.edu/uhs/disabilitymanagement/dismgmthome.htm

- Stephen Bangs, Disability Manager, managed 492 disability cases and coordinated return to work for 446 employees including 125 employees who participated in restricted work.
- Mr. Bangs coordinated workplace accommodation services with supervisors and served on the university's American with Disabilities Act Committee. Mr. Bangs coordinated functional capacity evaluations and work conditioning services with community medical service providers.
- Mr. Bangs received reaccreditation as an Ohio Bureau of Workers' Compensation Transitional Work Developer and maintained certifications as a Vocational Rehabilitation Case Manager and Certified Rehabilitation Counselor with the Commission on Rehabilitation Counselor Certification.

The University Fitness Center

http://www.uc.edu/fitness/ is operational.

- As of January 1, 2006, the 320 members included 45 medical students, 170 UC employees, 45 CCHMC employees, five UC Foundation employees and 55 University Hospital and community members.
- The center maintains a full-service, 3,500-square-foot exercise facility. The center is staffed at all times by certified fitness instructors and follows national guidelines established by the American College of Sports Medicine.
- The center provided supervised practical experience to students enrolled in the College of Allied Health Sciences coordinated program in dietetics and is participating in research on “The Role of Exercise in Functional Well-Being and Recurrence Among Breast Cancer Survivors.”
- The center submitted four grant proposals during 2005.
- The Fitness Center staff serve as NetWellness experts on exercise and fitness topics.
- Staff provided 106 pre-participation screenings, 95 orientations, 51 equipment reviews, 1,412 personal training sessions (up 102 sessions from previous year), 427 group fitness classes (up 107 classes from previous year), and 30 nutrition consultations by a registered and licensed dietitian.
- Pilates and a spinning cycling program were added.
Under the leadership of Ronald Sacher, MD, Hoxworth continued to achieve its strategic goals as our community’s only blood center, providing blood, blood components and blood-related services for the patients in the 27 Tristate hospitals we serve. Achievements for Hoxworth over the past year:

- In fiscal year 2005, Hoxworth Blood Center collected 88,599 red cell units and 8,364 single-donor platelet products from community blood donors. This represents a 1.0 percent increase for red cells and a 3.2 percent increase in single-donor platelet products compared with the previous fiscal year.
- Our Triple Double Program, intended to encourage donors to use our automated technology and donate two red cells units instead of one, continued to be a success. A total of 593 donors contributed 3,558 units of red cells.
- Time Warner Cable, Ethicon Endo-Surgery and the Cinergy Foundation once again supported our High School blood drive. This enabled Hoxworth to recognize nine of our community’s high schools and award individual college scholarships to six high school seniors. High school students donated 11,000 units of blood.
- In addition to the six individual college scholarships noted above, Hoxworth Blood Center awarded the first Malcolm Adcock Scholarship to Jamilah Salaam, a graduate of the Hughes Center who plans to study nursing at Wright State University. Hoxworth established this scholarship to honor Malcolm Adcock, a long-time member of Hoxworth’s Community Advisory Board and health commissioner for the city of Cincinnati.
- Over 7,000 donors were recognized with gallon awards for red cell and platelet donations. These awards ranged from one-gallon recognitions to one outstanding 65-gallon recognition.
- Hoxworth Blood Center moved its Tri-County Neighborhood Donor Center to a new location with increased space and accessibility. We also bought a new mobile vehicle for blood drives. This state-of-the-art vehicle was the focus of a successful capital campaign, and we acknowledge the generosity of the Procter & Gamble Fund, National City Bank, the Luther Foundation, the Brian Schierloh Bequest, Robert J. Williams, and Rendigs, Fry, Kiely & Dennis.
- Jose Cancelas, MD, PhD, associate clinical professor and division director of research, received funding for his studies on stem cell mobilization from the National Blood Foundation and the Leukemia and Lymphoma Society. Dr. Cancelas was also a recipient of a UC Summer Fellowship.
- Hoxworth faculty published 13 articles in the peer-reviewed literature and presented over 35 abstracts and presentations at various national meetings and conferences.
Emeritus Professor Tibor Greenwalt, MD, a pioneer in transfusion medicine, died in July 2005. The center is working with the American Association of Blood Banks to permanently endow the annual Greenwalt Lectureship, given at the association’s annual meeting.

The cellular therapies division continues to collaborate with the experimental hematology division at CCHMC in clinical trials involving novel cell therapies. The FDA has approved a second gene transfer clinical trial involving hematopoietic stem cells in high-dose chemotherapy for the treatment of certain brain tumors.

The center has begun implementation of Six Sigma as a process to facilitate continuous improvement and cost-saving. Patty Walton, Gregg Boothe, Dawn Lowe-Gooden and Kyle Rife are completing Black Belt training, working on projects to reduce platelet outdates and wastage, increase donor frequency and increase double red cell collections on mobile drives.

The center was recently accredited by the American Association of Blood Banks for its blood center, transfusion service, cell therapy and immunohematology reference laboratory services.

Drs. Sacher, Wilkinson and Carey continue to participate in the Retrovirus Epidemiology Donor Study-II (REDS-II) contract, funded through the National Heart, Lung and Blood Institute. Demographic data on blood donors at six centers across the country are now being collected. A study on leukocyte antibody prevalence in blood donors will begin in the next several months.

The center began offering a new service to reduce LDL cholesterol via apheresis for patients who are nonresponsive to standard cholesterol-lowering drugs.

The transplantation immunology division performed testing in support of the new Ohio Live Donor Kidney Exchange Program. The transplantation immunology division also provided testing on a record number of cadaveric donors and potential recipients over the past year.

Transplantation immunology also provided pro bono DNA analysis for the Ohio Innocence Project. In this particular case, DNA evidence exonerated an Ohio man incarcerated since 2001 on homicide charges.
Shriners Hospitals for Children continues to be a cornerstone of modern burn care and among the most important burn facilities in the world. Through its collaboration with the Academic Health Center, Shriners remains a forerunner in burn-care research and a national center of excellence for pediatric burn treatment.

Cincinnati Shriners Hospital receives more than $3.5 million for research projects each year. Some of the current clinical and basic research efforts in progress include studying:

- Laboratory-cultured skin substitutes
- Better use of pressure garments to reduce scarring
- Use of virtual reality hypnosis to reduce pain
- Vitamin D and calcium supplementation of patients to improve healing
- Effects of burn injury on the immune system
- Implications of chronic stress and hormones following burns
- The impact of peptides and neuropeptides on metabolism after burns
- Changes in muscle metabolism after thermal injury
- Cell signaling following acute lung injury.

These efforts have led to numerous publications in such prestigious peer-reviewed journals as the Journal of Immunology, American Journal of Physiology, Journal of Investigative Dermatology and the Journal of Burn Care and Rehabilitation. Staff from Shriners Hospitals presented data at national meetings, including the Society for Leukocyte Biology, Shock Society, Endocrine Society, Wound Healing Society, Society for Neuroscience, and Society for Investigative Dermatology. Most important, many researchers attend the American Burn Association each year. This year, staff from Shriners Hospital gave 20 presentations at this annual meeting.

Shriners medical team members continue to hold leadership positions with various local and national organizations:

- Chief of Staff Richard Kagan, MD, is medical director of the U.S. Tissue and Cell Medical Advisory Board and LifeCenter Organ Donor Network. He serves as first vice president and a member of the Board of Trustees of the American Burn Association (ABA). He is a member of the ABA’s Burn Registry Committee, the Audit Committee of the Central Surgical Association and the Editorial Board of the Journal of Burn Care and Research, and is a representative to the CPT and RUC Advisory Committees of the ABA. Dr. Kagan is an ad hoc reviewer for the Journal of Trauma and Critical Care, Annals of Surgery and Annals of Plastic Surgery, a member of the peer review panel of Advances in Skin & Wound Care and consults with the Board of Cell & Tissue Banking.
Kevin Yakuboff, MD, chief of plastic surgery at Shriners, was elected an active fellow in the American Association of Plastic Surgeons in May 2005, and will be formally inducted at the group’s 85th meeting in May 2006. He is also an ad hoc member of the Editorial Board of the Journal of Plastic & Reconstructive Surgery and of the Journal of Burn Care & Research.
After years of innovations, UC Physicians in 2005 had what is best described as a year of execution and implementation. New patient and total patient visits continue to grow. And with the introduction of the electronic medical record system, UC Physicians is making perhaps its most fundamental change ever in the way physicians see patients.

**Patient Visits**
The annual number of new patient visits is up 43 percent since 2002.

### New Patients Coming to UC Physicians

<table>
<thead>
<tr>
<th>FY</th>
<th>New Patients</th>
<th>Percent Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>34,603</td>
<td>-</td>
</tr>
<tr>
<td>2003</td>
<td>38,783</td>
<td>12.1 percent</td>
</tr>
<tr>
<td>2004</td>
<td>43,603</td>
<td>12.4 percent</td>
</tr>
<tr>
<td>2005</td>
<td>45,353</td>
<td>4.0 percent</td>
</tr>
<tr>
<td>2006</td>
<td>49,565</td>
<td>9.3 percent</td>
</tr>
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</table>

*Growth since 2002 14,962 43.24 percent*

Likewise, the total patient volume has grown by 23 percent since 2002.

### Total Patients Continue to Grow

<table>
<thead>
<tr>
<th>FY</th>
<th>Total Patients</th>
<th>Percent Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>249,020</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>264,549</td>
<td>6.2 percent</td>
</tr>
<tr>
<td>2004</td>
<td>286,369</td>
<td>8.2 percent</td>
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<tr>
<td>2005</td>
<td>291,056</td>
<td>1.6 percent</td>
</tr>
<tr>
<td>2006</td>
<td>306,372</td>
<td>5.3 percent</td>
</tr>
</tbody>
</table>

*Growth since 2002 57,352 23.03 percent*

In the midst of all of this, patient visits and services at University Pointe should exceed 55,000 in fiscal year 2006. This would mean that patient visits that increased by 22 percent for FY 2004 to FY 2005 at University Pointe are now on track to increase 35 percent in FY 2006.
Electronic Medical Record
Michael Privitera, medical director for UC Physicians and leader of the Electronic Medical Record (EMR) implementation team, describes implementation of an EMR as the “single most important change a practice can make to improve safety and quality of life.” Led by the EMR committee (consisting of a number of clinicians and administrators), UC Physicians selected the General Electric Centricity product. This system was purchased through the Health Alliance’s Integrated Management Services (IMS), the same company through which UC Physicians practices also purchase billing and accounts-receivable management services. By March 31, 2006, all UC Physicians’ practices at University Pointe will be up on the EMR. The implementation of the EMR at the Medical Arts Building in Clifton will start as soon as we finish at University Pointe. It is now anticipated that the EMR will be fully rolled out to all UC Physician practices by fall 2007. Critical to the success of the implementation of the EMR so far has been the time and effort given to the design and implementation phases of the EMR project.

New Programs

The UC Executive Health Program
The UC Executive Health Program at University Pointe opened for business in 2005. After a significant number of “beta” examinations, seven executives have now gone through the program. The response from the business community, which for many years has requested that we provide a product of this nature, has been very positive. This program caters to busy executives to provide them with the opportunity of “one-stop shopping” for health care. For instance, examinations and testing that would usually take weeks can now be done in just one day. The program identifies and treats various risk factors before the possible onset of diseases, while at the same time encouraging the development of a healthy lifestyle.

Designed by clinical faculty who are a part of UC Physicians, the evidence-based program offers companies and business executives a comprehensive medical evaluation in one day. A multidisciplinary team uses the latest clinical guidelines and technology to give the most in-depth and appropriate examination.

UC Comprehensive Sleep Medicine Center
The center, headquartered on the University Pointe campus, treats patients for insomnia, excess daytime sleepiness, snoring, weight gain, daytime fatigue, restless leg syndrome, narcolepsy or any other sleep-related complaint.

Patients can be scheduled in one of the center’s locations either at University Pointe or at the Drake Center.

Cosmetic Surgery at University Pointe
Cosmetic Surgery offers a full range of skin care and cosmetic surgery for the face and body. Our cosmetic surgeons offer surgical consultation for body contouring and facial enhancements.
University Pointe Pain-Management Center
This center utilizes a multidisciplinary approach to treating and educating pain sufferers, with the goal of reducing their pain, improving their quality of life and increasing their activity level. This treatment for the entire physical, mental and emotional body involves:

- Medical management
- Physical therapy
- Interventional techniques
- Psychological therapies
- Surgical approaches

The center treats pain related to the back and neck, complex pain syndrome, HIV, sports-related injury, sciatica, cancer, post-thoracotomy syndrome, failed back-surgery, neuropathology/diabetes, joints/muscles, work-related accidents, fibromyalgia and post-herpetic pain/shingles

The treatments offered include trigger-point, joint, epidural steroid, botox and CT scan-guided injections, all nerve-route blocks, all facet injections, radiofrequency ablation, epidural lysis of adhesions, discography, percutaneous discotomy, vertebroplasty, spinal cord stimulation, intra-thecal drug delivery, acupuncture, massage therapy and physical/aquatic therapy.

Diabetes Center
This center serves referring physicians and their patients in the treatment of diabetes. As the only adult diabetes center in the region, the Diabetes Center at the University of Cincinnati provides state-of-the-art comprehensive diabetes care. The center treats type 1 and type 2 diabetes and also diabetes-related complications such as eye, kidney, nerve or vascular disease. Major emphasis is placed on patient education on diet, lifestyle and medications.

University Pointe Surgical Hospital
The eight-bed University Pointe Surgical Hospital in West Chester received its full accreditation from the Joint Commission on Accreditation of Healthcare Organizations (JCAHO). The surgical hospital initially received notification that it passed the JCAHO inspection when it opened in October 2004. However, as is the custom, full accreditation was not granted until a second inspection occurred in early 2005. The accreditation award is for three years. University Pointe Surgical Hospital has a spa-like atmosphere, making the facility look and feel more like a hotel than a hospital. As a small, short-stay, boutique hospital, the facility caters to individual patient needs. Both in-patient and out-patient surgeries are performed at the hospital, which when fully operational will have four operating rooms and two procedure rooms.
New Chairman of the Board
David Stern, MD, dean of the College of Medicine, also serves as the chairman of the Board of Trustees for UC Physicians. Dr. Stern joined the medical school from the Medical College of Georgia in Augusta in August 2005.

Joint Venture MBA Certificate Program
UC Physicians in a joint venture with the College of Business kicked off its first year of the MBA certificate program. The class meets one Saturday a month to understand and undertake difficult, real-life business projects. This training will not only make students conversant with the business environment of medicine, but also allow them to actively participate in the business leadership of the Academic Health Center.

UC Community Cancer Education Day
UC Physicians and the College of Medicine put on the first ever UC Community Cancer Education Day on June 25, 2005, at the Kingsgate Conference Center. The program featured four primary sessions on the major cancer topics of breast, prostate, colon and lung cancers. In addition, scientists and clinicians from UC Physicians and the College of Medicine set up over 20 rooms that focused on specific types of cancer. The program included videos, literature and hand-outs and one-on-one conversations with physicians, researchers and scientists. The types of cancer covered at the event were bladder, kidney, brain, cervical, ovarian, uterine, throat, neck, mouth, blood (leukemias), lymph node, lung, pancreas, esophagus, bile duct, gallbladder, appendix, bone, sarcomas, skin and thyroid.

The second annual UC Community Cancer Education Day was held Saturday, March 25, 2006, at the Kingsgate Conference Center with UC Physicians taking a leadership role.

Fifth Annual UC Physicians Open House and Health Fair at University Pointe
Once again, UC Physicians and the staff of the University Pointe practices put on what is acknowledged as the premier health fair in the Greater Cincinnati region. Most of the clinicians and nearly all of the staff working at University Pointe participated in this public event. Over 1,000 people have attended this event and gained insight into the services provided by UC Physicians at University Pointe and the leading technologies and therapies available to them at the facility. This was the first time University Pointe Surgical Hospital participated in the health fair.
UNIVERSITY HOSPITAL

For over 182 years, University hospital has helped heal the Greater Cincinnati community and continues its mission to serve the poor and underserved, in addition to training and teaching future health-care providers. It was a year of patient-care and clinical advances and award-winning accomplishments for the hospital.

Awards, Honors and Certifications

- Seven University Hospital programs (up from three in 2004, with those three improving in ranking) ranked among America’s best in the annual U.S. News & World Report 2005 rankings. University received rankings in the categories of ear, nose and throat (14), respiratory disorders (27), hormonal disorders (33), digestive disorders (42), neurology and neurosurgery (43), geriatrics (43) and urology (43).

- The Joint Commission on Accreditation of Healthcare Organizations named the Greater Cincinnati Patient Safety ICU Collaborative a 2005 recipient of the ninth annual Ernest Amory Codman Award, which recognizes excellence in the use of outcomes measurement by health-care organizations to achieve improvements in the quality and safety. University Hospital was part of the collaborative that received the award in the multiple-organization category and was recognized for using evidence-based practices to improve patient safety. The effort to reduce health-care-acquired infections for patients in the operating room and intensive care units resulted in a 50 percent decrease in central-line infections, and increased adherence to evidence-based practices to 95 percent from 30 percent. The collaborative was also awarded the Baxter Excellence in Patient Safety Award by the American Association of Critical Care Nurses.

- University Hospital and the College of Medicine celebrated the 20th anniversary of their Heart Transplant Program in December. Since the program began, University Hospital has performed 349 heart transplants. As of December 21, 21 local residents were on the waiting list for a heart transplant.

- The 500th liver transplant was performed in January 2005. The patient was on the waiting list for 31 days, compared with the national average of 10–12 months.

- University Hospital was re-verified by the American College of Surgeons National Committee on Trauma as meeting the requirements of a Level-1 Trauma Center. University Hospital and Children’s Hospital Medical Center are currently the only verified Level-1 Trauma Centers in Cincinnati. The status is valid for three years.

- The Echo Lab received reaccreditation by the Intersocietal Commission for Accreditation of Echocardiology Labs (ICAEL). The ICAEL was established with the support of the American Society of Echocardiography, the American College of Cardiology and the Society of Pediatric Echocardiology to provide a peer review mechanism to encourage and recognize the provision of quality echocardiographic diagnostic evaluations by a process of voluntary accreditation. Accreditation status
signifies the facility has been reviewed by an independent agency, which recognizes the laboratory’s commitment to quality testing for the diagnosis of heart disease.

- The Vascular Lab earned reaccreditation by the Intersocietal Commission for Accreditation of Vascular Labs (ICAVL). The ICAVL was started by the principal professional organizations in vascular medicine to provide peer review at the highest standards in the multiple areas of vascular care.

- University Hospital was designated a UnitedHealth Premium cardiac specialty center, reflecting national recognition of the cardiac care they provide. The UnitedHealth Premium cardiac specialty centers program identifies hospitals nationwide that are leaders in providing cardiac care.

- University Hospital teamed up with LifeCenter Organ Donor Network, the Tristate area’s organ-procurement organization, to participate in the national Organ Donation Breakthrough Collaborative. As a result, the organ donation rate, which is the number of potential organ donors converted into actual organ donors, rose from 47 percent in 2003 to 61 percent in 2004. As a result, University Hospital was awarded the Collaborative Recognition Award by the U.S. Department of Health and Human Services and, most important, more lives were saved.

- University Hospital, in conjunction with Lewis Communications, was named a winner in the 2005 Aster Awards Program. The Aster Awards is a national health-care marketing program that recognizes excellence in medical advertising. University Hospital and Lewis Communications were honored with a Judge’s Choice Award, the highest honor given, for their “Living Proof” ad campaign’s newspaper advertising series. The “Living Proof” newspaper ad campaign features actual patients whose lives were saved with the help of doctors, nurses, staff members, technology and services offered at University Hospital.

- The Neuroscience Institute at University Hospital earned the Gold Seal of Approval for stroke care from JCAHO by being designated a Primary Stroke Center. This distinction was earned after an on-site review was conducted in June. The certification is based on the recommendations for primary stroke centers published by the Brain Attack Coalition and the American Stroke Association’s statements/guidelines for stroke care. University Hospital is one of only 11 such centers in Ohio and 40 in the United States.

- For the fifth time University Hospital was named among the 100 Top Cardiovascular Hospitals in the nation by Solucient, a leading health-care information content company. Solucient produces the yearly 100 Top Hospitals: Cardiovascular Benchmarks for Success study, used by hospitals across the country as a target for performance. This report identifies industry benchmarks and recognizes hospitals and their management teams that demonstrate superior clinical, operational and financial performance in cardiovascular services.
Advancing care and treatment for patients is pursued through many avenues—research, new equipment and technology, new services and redesigned processes. Continuous pursuit to provide the most advanced and appropriate care for our patients through operational excellence has been a major focus for the leadership of the hospital:

- University Hospital showed a significant two-year increase in every market share category except emergency, with a particularly important 5.8 percent growth in inpatient market share. We also had additional growth to an 11.2 percent market share for the fourth quarter. This growth has been driven by College of Medicine/UH faculty recruitment and UH throughput/capacity initiatives, which are an organizational priority. Consumer preference for the hospital increased in almost every area, and we are the leader in preference in more areas than any other local hospital, according to PRC research. The hospital also had 357 media placements for the year.

- Recruitment, retention and turnover were all areas of focus this year. From 2004 to 2005 the overall vacancy rate declined from 9.9 percent to 5.5 percent, the RN vacancy rate from 19.76 to 10.28 percent, the turnover rate from 13 percent to 11.5 percent and the retention rate from 75.3 to 72.9 percent.

- University has one of the most robust interpreter services departments in the area. As the need is identified, the hospital has added new interpreters for numerous languages. The hospital received a grant from the Greater Cincinnati Health Foundation to add interpreters. There are now 11 interpreters representing seven languages (sign, Spanish, French, Arabic, Bambara, Fulani and Portuguese).

- University Hospital appointed Paul Uhlig, MD, as vice president and associate chief of staff for clinical improvement. Dr. Uhlig, a cardiovascular surgeon, will be responsible for performance improvement initiatives, collaborative rounds, care-team building, patient safety and new care models. He will also serve as a faculty member in the department of surgery at the College of Medicine and will work with the UC Institute for the Study of Health.

- A new outpatient pharmacy was constructed on the ground floor of the Hoxworth building. In addition to providing a modern facility that addresses department space shortage and poor patient amenities, the project included a new automated prescription-dispensing system for greater efficiency. It places the department in the same building as the Medicine Clinics, a heavy user of pharmacy services, and also allows us to serve our underserved patients more efficiently.

- A top priority for 2005 was patient throughput. To allow us to better meet the needs of excess demand, a multi-component plan was established for the next one to two years. Progress to date has included opening 36 additional beds, reopening the surgical step-down unit, opening six additional operating rooms and creating specialized operating rooms, implementing an electronic bed board, creating and recruiting a bed-management nurse, expanding the hospitalist program, expanding the Medicine Clinic and decreasing by over 50 percent emergency patients who leave without being seen.
University Hospital implemented CPOE (Computerized Physician Order Entry) on 9 Critical Care Pavilion in September. The implementation went very smoothly with few problems and excellent support from staff and physicians.

In order to increase critical-care capacity to meet significant demand, the hospital opened a creative SICU (surgical intensive-care unit) within its PACU (post-anesthesia recovery unit). This six-bed unit will help meet increasing demand and assist with volume from the new operating rooms.

The Dental Center received a grant to equip two additional dental rooms.

The hospital now provides patients and their families with private, personalized Web pages called CarePages to help them keep in touch during hospital stays. The pages are provided free of charge. Patients or their chosen representative can post updates about progress, treatment and anything else they would like. Family and friends can also post messages for the patient to read. This service helps minimize the amount of time patients and families spend on time-consuming phone calls and repeat conversations, allowing the patient more time to heal. Patients can continue to post information on their CarePage after being discharged from the hospital, so that friends and family can stay informed about their recovery.

The University Hospital News Network was launched early in the year. A specialized in-house television system, it consists of high-quality TV monitors located in the main lobby, Faculty Conference Center, the main first floor corridor, and two locations in the cafeteria. Programming is developed by the hospital and is targeted at the general public, in addition to internal audiences. Messages communicate what is new and developing at the hospital, as well as more traditional marketing material.

The hospital opened a new Pain Center to aid patients in the management of chronic pain.

University Air Care and the Cincinnati Fire Department held a disaster drill on the University Hospital helipad to practice readiness skills in the event of a fire on the helipad. Other disaster drills are routinely performed to ensure the hospital is ready in the event of a large-scale disaster. Grants were received to purchase special readiness equipment for terrorism preparedness.

The Medical Admission Express Unit (MAEU) opened. This six-bed unit is dedicated to speeding the admission into University Hospital from the emergency department, community hospitals or other referrers even when all University Hospital beds are full. Patients are admitted through this unit and then transferred when an appropriate bed opens (averaging four to nine hours). The unit speeds direct admissions from the community and has significantly reduced the number of patients waiting for a bed in the emergency department. Because the MAEU has nurses specialized in the admitting process, we expect this to also improve core measures results and consistency of all admission requirements.

For the past year, led by Walter Merrill, MD, University Hospital’s cardiac intensive-care unit participated in a study by Harvard University of a new way of doing rounds on patients. Called “collaborative rounds,” this method is a team-based rounding process in which the entire care team (doctors, nurses, physical therapists, social workers, pharmacists, dietitian, etc.) meets at the same time each day to share
information and develop a plan of care for each patient. The patient and family members are active participants in the process and are considered integral members of the rounds team.

- University Hospital is performing a new, less invasive procedure to look inside the esophagus. Patients swallow a vitamin-size pill called Pill Cam Eso, which has two small cameras on each end. The cameras record up to 2,600 images of the esophagus. These images are transmitted to a computer and are used to help diagnose diseases such as gastroesophageal reflux disease (GERD), esophagitis (inflammation of the esophagus) or Barrett’s esophagus, a precancerous condition.

- University Hospital began offering a new cardiac nurse residency program called PACE (Program for the Advancement of Clinical Excellence), the first of its kind in the United States. The 12-month program is designed for new nursing graduates or any nurses interested in working on cardiology inpatient units. Several other departments within the hospital have or are developing PACE programs.

- The first of our Aethon delivery tugs was programmed and placed in service. The tugs navigate from a wireless network and floor plans programmed into their computers. They make more than 60 equipment deliveries per day for Central Service and are delivering all medical-surgical supplies to nursing units throughout the hospital for the distribution department. Ten tugs will in service by next year.
specialists: treatment with medications and treatment with surgery. The study compares the ability of these treatments to eliminate seizures and side effects and improve the quality of patients' lives.

- University Hospital’s Neonatal Intensive Care Unit was chosen as a site for a national research project called the Support Trial (Surfactant Positive Airway Pressure and Pulse Oximetry). The study is to determine the best method of delivering air pressure to premature babies who are not more than 27 weeks in gestation.
- UC’s Breast Imaging Center is participating in a nationwide clinical trial to discover the role of ultrasound in detection of breast cancer in high-risk women.
- University Hospital was selected to be one of 12 teaching hospitals in the United States to be a part of the ACT II project, funded by the Robert Wood Johnson Foundation, to improve academic teaching hospitals’ performance and teaching. This effort teams faculty, administrators and students to study together and then improve areas of hospital operations. University Hospital teams will be working on patient flow in the departments of internal medicine, emergency medicine, obstetrics and gynecology and anesthesiology.
- UC and University Hospital were selected as one of 22 academic centers to participate in the Academic Chronic Care Collaborative. The collaborative is a program of the American Association of Medical Centers to improve the way chronic diseases are treated and to improve the education of students in that care. The project will involve the University Hospital internal medicine department, medicine clinic and medicine/pediatric clinic, the Christ Hospital family practice department, and Cincinnati Children’s Hospital. This project is being led by T.J. Redington, MD.
- University Hospital and the College of Nursing have established the only nursing co-op program in Ohio. The program integrates classroom studies and clinical experience at University Hospital.
- Each year, University Hospital gives a minority student scholarship to the College of Nursing. Deasa Dorsey, a 2005 graduate of Walnut Hills High School, was awarded a four-year scholarship, including tuition, books and fees (up to $10,000 a year) in 2005.

Educating our patients and the community about healthful and preventive living is part of the community outreach the hospital provides. In addition, the hospital provides numerous services to those who are most in need:

- University Hospital held Medicaid special enrollment sessions at the hospital to recognize “Cover the Uninsured Week,” May 1–8. More than 45 million Americans and nearly 550,000 Ohioans do not have health insurance. Many of these 45 million people are actually eligible for Medicaid but are not aware of it. University Hospital cares for the majority of Hamilton County residents below the poverty level and employs many financial counselors to help patients qualify for all help available to them.
- The hospital responded to Katrina relief needs in many ways including (1) Sending a mobile ICU and team, (2) Sending a cardiac physician team, (3) Providing over $10,000 in supplies and drugs to teams going to the area, (4) Agreeing, if needed, to
take up to 25 tertiary acute referral patients and 80 medical/surgical patients, (5) Making a direct personal contact with Charity and Tulane University hospitals officials, offering to accept some of their medical residents, assisting and hiring some of their RNs and other associates and assisting with anything else they needed, (6) Agreeing with the University of Alabama at Birmingham to receive their West Nile virus and transplant patients, and (7) Offering emergency department and clinic services to evacuees coming to Cincinnati.

- Six hundred people attended the 10th annual Deaf/Hard of Hearing Health Fair on “Communication Unlimited: Respecting Our Differences,” sponsored by University Hospital. The guest speaker was Heather Whitestone-McCallum, who in 1995 became the first hearing-impaired Miss America. University Hospital has a full time interpreter on staff for those with hearing impairment as well as a variety of TDD devices.

- The Cincinnati Comprehensive Sickle Cell Center hosted the 28th annual meeting of the National Sickle Cell Disease Program. This NIH-sponsored conference brings together basic and clinical scientists, clinicians, nurses, social workers, counselors, psychologists and others interested in sickle cell disease to report on the latest research and treatment.

- Christi Witsken, University Hospital injury-prevention coordinator, presented “Choices and Chances” in partnership with Hamilton County Safe Communities program to students at Oak Hills High school. The injury-prevention program focuses on choosing safe driving practices and avoiding activities that can lead to a serious car crash. Traumatic injuries from automobile collisions are the major cause of death in people age 15 to 19. Car crashes often involve high-risk behavior and are frequently preventable. This program fills a need to promote safe driving behaviors among teenagers.

- A free educational symposium presented by Neuroscience Institute physicians for patients, families, and caregivers affected by epilepsy explored the latest treatments and strategies for living successfully with the condition. The symposium, titled “Success with Your Epilepsy,” covered issues relating to both pediatric and adult epilepsy. Topics included the causes and effects of epilepsy, new treatments, family and caregiver issues and coping methods.
Chief, Medical Service

Gary Roselle, MD, received his medical degree from Ohio State University School of Medicine in 1973. He served his residency at Northwestern University School of Medicine and his infectious diseases fellowship at the University of Cincinnati. His career in the VA began in 1977 as chief of the infectious diseases section at Cincinnati VA Medical Center. Dr. Roselle is currently chief of medicine at Cincinnati VA Medical Center, a professor of medicine in the department of internal medicine, division of infectious diseases, at UC College of Medicine, and associate chairman of the department of medicine. In addition, Dr. Roselle is program director for infectious diseases in the VA Central Office in Washington DC. The scope of this national program includes infectious diseases, infection control, and the VA’s emerging pathogens initiative.

Dr. Roselle serves on multiple national VA and interagency advisory committees, some of which are listed below.

- VA representative on the Centers for Disease Control and Prevention (CDC) Advisory Council for the Elimination of Tuberculosis (ACET)
- CDC’s National Task Force to Combat Multidrug-Resistant Tuberculosis
- CDC’s Public Health Action Plan to Combat Antimicrobial Resistance Task Force
- Forum on Emerging Infections in the Division of Health Sciences Policy of the Institute of Medicine, National Academy of Sciences
- Committee on International Science Engineering and Technology (CISET) Subcommittee Two on Science Technology and Global Issues Working Group on Emerging and Re-emerging Pathogens
- National Institute of Occupational Safety and Health (NIOSH) National Occupation Research Infectious Diseases Team
- The Drugs Medical Countermeasures Subgroup (for Biological Threat Agents) of the National Science and Technology Council’s Weapons of Mass Destruction Medical Countermeasures Subcommittee
- The Biodefense Vaccines and Immunologics Committee Interagency Work Group Requirements Subgroup under the Office of Science and Technology Policy and the Homeland Security Council, renamed the Weapons of Mass Destruction Medical Countermeasures Subcommittee Requirements Subgroup
- The VA Under Secretary’s Coordinating Committee on Quality and Safety.

Dr. Roselle’s formal research has included host response to toxins with an emphasis on alcohol. He reviews research protocols for the National Institute of Alcohol Abuse and
Alcoholism (NIAAA). He has published over 70 papers and seven book chapters, has been a reviewer for several scientific journals, and continues to be an invited speaker at national and international meetings. He currently has funding requests in the area of bioterrorism surveillance pending at both the Department of Health and Human Services and the Department of Homeland Security.

Cardiology Section
The current chief of the cardiology section is Robin Vandivier, MD. Staff includes Dr. Khoury, interventional cardiology, Dr. Wexler, general cardiology and Drs. Attari, Effat and Diwan, who are filling the roles for echocardiography and electrophysiology.

In the clinical arena, the cardiac catheterization laboratory was remodeled in 2004. The cath lab does standard cardiac catheterization, cardiac intervention (PCI), and electrophysiologic studies at the VA Medical Center. The recovery area now in the suite improves the throughput for the group. The echocardiography area was remodeled at the same time and new equipment was purchased. With regard to research, Dr. Khoury has funds in the Cincinnati Foundation for Biomedical Research and Education.

A second issue for the cardiology section is the lack of competitive research funding at the VA. This has primarily been related to difficulty in recruiting high-quality investigators and allocation of time resources for those with primarily clinical appointments.

Digestive Diseases Section
Dr. Weesner, chief of the digestive diseases section, performs the bulk of the clinical work for the group. Dr. Giannella, until recently, had a merit review and provided scholarly leadership. With the current demise of his merit review funding, his new mission is yet to be defined. Dr. McKeen, who is a staff physician in general internal medicine, is helping with clinics as well as sigmoidoscopies, on which we are woefully behind. Dr. Gelrud’s specialty is pancreas and ERCP, and he is a valuable asset to the group. Dr. Kemmer has come to us with a specialty in hepatitis C and hepatocellular carcinoma. Dr. Mendenhall, who is well known in hepatology and hepatitis C, has retired from the VA and is emeritus at the university, but is currently providing additional support in the hepatitis C clinic on a fee basis appointment.

In the clinical arena, the old MICU space that was left vacant when the new MICU opened has been renovated for an endoscopy suite. This will be primarily a Digestive Diseases Endoscopy Center with bronchoscopy also performed in the same location. A fluoroscopy unit has also been purchased and will be installed in the new suite. Recovery will be in the same area. In addition, with a recent emphasis in the VA on colon cancer prevention, all equipment has been upgraded. Still pending is the bronchoscopy unit to be compatible with the GI Olympus equipment. Virtual colonoscopy is an initiative planned for the near future.

In terms of research funding, Dr. Kemmer and Dr. Mendenhall are working on research submissions. The primary opportunity for the digestive diseases section is in the area of
research. The difficulty has been recruitment of high-quality investigative applicants as well as allocation of time for the more clinically oriented staff.

**Endocrinology**

David D’Alessio, MD, is the chief of the endocrinology section at the VA Medical Center and also has a joint appointment with the VA GCRC with mixed funding for his salary support. In order to improve diabetes care at the VA, a proposal has been forwarded to the hospital director to enhance the diabetes program in all areas.

Dr. Falciglia, who is working with Dr. Render at the Inpatient Evaluation Center, will be submitting a grant for funding in patient safety in endocrinology. Dr. Tomer is a new edition to the endocrinology section and is working on grant submission.

The major opportunities in the endocrinology section will likely be in the area of diabetes care and increased research funding.

**Hematology/Oncology**

The hematology/oncology section is led by Dr. Muhleman with support from Dr. Pancoast. Drs. Nahleh, Safa and Komrokji were hired with the purpose of improving the clinical mission of the division of hematology/oncology at the university.

The Chemotherapy Infusion Center at the VA Medical Center was renovated to improve flow; however, space is still limited. Cincinnati VA is a national referral center for treatment of prostate cancer with minimally invasive techniques, specifically radioactive-bead placement (brachytherapy), in association with UC’s nuclear medicine department. The hematology/oncology section until recently provided a staffed Hematology Oncology Clinic at the VAOPC Columbus, Ohio.

In the research area, hematology/oncology section participates in the clinical studies of the hematology/oncology group at the university and provides patients for these studies.

The opportunities in the section lay primarily in the area of basic science. The university is in the process of selecting a division director. During the transition, the first priority is to maintain the clinical mission, and the VA participated in that activity. The scientific mission of the division, and in consequence the section at the VA, is yet to be fulfilled.

**Immunology Section**

Dinesh Khanna, MD, is the section chief of immunology/rheumatology. Dr. Herman, who is paid through a contract with the departmental corporation, undertakes the bulk of the clinical work. Fred Finkelman, MD, remains an active member of the section.

Clinically, the group also covers immunology/rheumatology at the Chillicothe VA Medical Center, where Dr. Herman attends a regular clinic. In the research area, Dr. Finkelman has both a Merit Review as well as money in the VA Research Corporation. Dr. Morris, in the immunology section in research, also has a Merit Review. The major issue for this section
has always been recruitment of a first-quality investigative immunologist. The Allergy Section is active clinically and intermittently has competitive VA funding.

**Infectious Diseases**
Dr. Smulian is the chief infectious diseases and heads the Extended Infectious Diseases Clinic at the VA Medical Center. Staff physicians include Dr. Deepe, Dr. Kralovic, who is partially supported through funding from VA Central Office (Dr. Roselle), Dr. Gomez, Dr. Britigan (chair of UC’s internal medicine department, who does extensive research), and Dr. Walzer, associate chief of staff for research.

Clinically the section is fully integrated with UC’s infectious diseases division, and clinical issues are well covered.

With regard to research, Drs. Smulian, Deepe and Cushion have Merit Review grants, Dr. Walzer has a Merit Review and a REAP, and Dr. Gomez is working on a research submission. The major opportunity for the infectious diseases section will be the future funding for Dr. Gomez.

**Nephrology Section**
Charuhas Thakar, MD, is the chief of the nephrology section, with help from Drs. Soleimani and Yadlapalli.

Clinically, the dialysis unit at the VA Medical Center is capped at about 15–18 full-time chronic dialysis patients (a top-management decision). Beyond this number, patients are outplaced from the VA, though many still return to the facility for the VA prescription drug benefit. Inpatient emergency dialysis is also managed by the nephrology section. Dialysis machines are beginning to age. The water system in the dialysis unit has recently been replaced with state-of-the-art equipment. Overall, the clinical services are handled well in the section and are provided in a timely manner.

In the research area, Dr. Soleimani currently has a Merit Review and Dr. Thakar has recently been awarded a grant.

**Pulmonary Section**
Ralph Panos, MD, heads the pulmonary section and Dr. Almoosa is director of the Critical Care Unit. Drs. McCormack, McGraw and Nath are part-time physicians involved mostly in clinical work at the VA. Dr. Knepler has recently become a part-time physician for sleep medicine. Drs. Sahebjami, a retiree, and Dr. Straussbaugh are working as fee-basis staff to help with the clinical mission during recruitment. Thus, the clinical and educational missions of the section are being fulfilled through innovative mechanisms.

Two years ago, a new medical intensive care unit was opened and seems to be functioning well. We have replaced our sleep equipment and the sleep lab is now a functioning state-of-the-art lab. We are limited, however, by lack of the second sleep technician.
Opportunities abound in the pulmonary section. We anticipate a protocol for a pulmonary hypertension program and are working toward accreditation for the sleep lab.

**Inpatient Evaluation Center**
Dr. Render is in charge of the Inpatient Evaluation Center and is also a member of the UC pulmonary division and pulmonary section at the VA Medical Center. This is a national funded program. Dr. Patterson has an HSR&D grant, and Dr. Falciglia (endocrinology) is being nurtured for a future submission for competitive funding.

**Network 10 Health Services Research and Development**
Dr. Tsevat is in charge of VISN 10 Health Services Research and the Development Office. He currently has an HSR&D grant.

**Conclusion**
There are opportunities for most sections in the VA Medical Service. This past research submission period was extremely beneficial to us—five grants were recommended for funding. In terms of clinical care and education, the sections are solid. New resident work-hours rules have created issues with both caps and 24 + 6 problems. Recently we hired a hospitalist, Dr. Hsu, to assist with resident supervision and to help address the work-hour limitations. Even though this is relatively new to us, we are seeing an improvement and an increase in customer/resident/house staff satisfaction.