“What are my options?”  “What happens if I don’t have surgery?”  “How long will I need to recover?”  “Should I get a third opinion?”

“Can this procedure affect my breathing?”  “Who is the best surgeon for this type of treatment?”  “Will I be able to run again?”
Consistently at the forefront of surgical innovation, the University of Chicago Department of Surgery is transforming the multidimensional field of surgery through delivering compassionate clinical care, making groundbreaking discoveries and training future surgical leaders.

We are dedicated to continually finding ways to better serve the needs of our patients. In this year’s annual report, we illustrate elements of our own practice and philosophy, an approach we call “Chicago Style Surgery.” We believe that building trust and partnership with our patients is paramount. Our patients seek care at our great University not just because of our surgical skills and advanced technology. They also turn to us to learn more about their conditions and fully understand their options. We engage in open dialogue and open-ended discussion as part of our clinical mission, just as we do in our research and education missions. We take the time to listen to our patients and their families, hear their concerns, answer their questions and help them search for answers.

This past year has produced some exciting new developments. The University of Chicago has expanded its clinic offices to a new location in the south suburb of Matteson, IL. This growth has allowed more patients in the area to access a broad spectrum of our leading-edge surgical services. The practice, which already provided services for sports medicine, orthopaedic surgery and pediatric surgery, now offers general surgery, neurosurgery, plastic surgery, pediatric urology, and ear, nose and throat. The new offices also provide our trainees further opportunities to practice in a different setting with a different patient population.

The Department continues its efforts to augment our practice in preparation for the New Hospital Pavilion (NHP), set to open in 2013. The NHP will bridge the Duchossois Center for Advanced Medicine and Comer Children’s Hospital to form the core of the University of Chicago’s 21st century Medical Center. In the rapidly evolving world of surgery, the NHP will maximize flexibility for changes in biomedical science and technology over the coming decades.

Once again, our premier, multidisciplinary clinical programs have been ranked among the top programs by U.S. News & World Report (July 2011). These include: digestive disorders (#9), cancer (#14), diabetes and endocrinology (#23), kidney disease (#28), neurology & neurosurgery (#29), ear, nose and throat (#30), urology (#33), heart & heart surgery (#35), and orthopedics (#43). Our patients benefit from our collaborative approach to clinical care as well as our expertise in advanced surgical techniques.

Moving forward, we anticipate another full year of outstanding accomplishments on the clinical, academic and educational fronts.

Jeffrey B. Matthews, MD
Surgeon-in-Chief and Chair, Department of Surgery
Dallas B. Phemister Professor of Surgery
George Recentio woke up one morning in May 2003 and began his typical routine. As he was shaving, he thought he saw a lump behind his jaw close to his ear. Convinced that something was there, he sought out the advice of a neighbor who happened to be an Ear, Nose and Throat surgeon. His neighbor took a look at his neck and recommended he get a CT scan.

Mr. Recentio received a CT scan at a hospital near his home in Indianapolis, Indiana. The radiologist who read the CT confirmed that Mr. Recentio had a paraganglioma, a rare tumor that grows in the cells of the peripheral nervous system. He met with local surgeons for a consultation. They had never done the procedure to remove a paraganglioma, but they felt comfortable performing the operation.

Not quite satisfied with this response, Mr. Recentio scoured the Internet for every surgeon with experience in this area. His extensive research led him to head and neck surgeon Kerstin Stenson, MD, who had successfully performed this procedure. Although Mr. Recentio lived in Indianapolis, a nearly 3½ hour drive to Chicago, he hopped in the car and made his way to the University of Chicago.

In his first appointment, Mr. Recentio admitted, “I put Dr. Stenson through the grinder, firing off questions based on her background. She answered every question and gave me all of the options of what could be done. I was there for at least an hour.”

Comfortable with Dr. Stenson’s approach and confident in her abilities, Mr. Recentio could see he was at the right place with the right doctor. He decided to have his surgery at the University of Chicago in June 2003. Dr. Stenson successfully removed the paraganglioma.

But that was not the end of Mr. Recentio’s journey. A known consequence of this procedure is hoarseness, due to the anticipated paralysis of the vocal cord. Mr. Recentio became very hoarse and lost the use of his voice. Dr. Stenson performed a thyroplasty, placing a silastic ring in the vocal cord. Mr. Recentio regained control of his voice.

After about six months, Ms. Zaccone met with plastic surgeon David H. Song, MD, MBA, for a breast reconstruction consultation. "I came in that office with a list of questions," said Ms. Zaccone. "He answered every single one of them. I asked to see before and after photos and he immediately pulled them up on his laptop. He explained every option available to me. I knew going in what I wanted to do. In my situation, he was able to say yes, what you want to do is possible, but he also gave me other alternatives."

Ms. Zaccone opted for the Deep Inferior Epigastric Perforator (DIEP) flap reconstruction in which Dr. Song used skin and fat from the abdomen to reconstruct a breast. She loved the results. "Knowing what I now know, this was definitely the best decision for me. I wouldn’t hesitate in coming back to the University of Chicago.”

Her entire experience led her to document it in a book entitled, “A Random Interruption: Surviving Breast Cancer with Laughter, Vodka, Smoothies and an Attitude.” In the book, she discusses not only the full range of her personal experiences from painful to humorous to taboo, but also provides practical patient resources, such as a glossary and questions to ask each provider in the process. One hundred percent of the profits benefit the University of Chicago Cancer Research Foundation. In particular, it funds the University of Chicago Section of Plastic Surgery’s Breast Reconstruction and Microsurgery Fellowship. Each surgeon that accepts this fellowship must move to another state where advanced breast reconstruction and microsurgery options are not offered. The first fellow, Daniel Kwon, MD, is now in practice at Sanford Health University of South Dakota Medical Center.

Suzanne Zaccone is a fan of the University of Chicago. “I've had such a positive experience, and I'm normally not one to give recommendations unless I'm 100 percent sure that you are going to have a good experience. With the University of Chicago, it's easy.”

Like Mr. Recentio, Suzanne Zaccone is a fan of the University of Chicago, “I really love and respect the University of Chicago. I'm normally not one to give recommendations unless I'm 100 percent sure that you are going to have a good experience. With the University of Chicago, it's easy.”

Ms. Zaccone has firsthand knowledge of being a patient. In a routine mammogram at her local hospital, she was shocked when doctors told her she had Stage 2b breast cancer in January 2008. She experienced no symptoms at all and never missed a mammogram. "When she heard the word cancer," she thought, "I’m going to die." But, instead of giving up, she decided to find the best doctor and facility.

She reviewed every hospital in the Chicago vicinity and met with several doctors. She eventually came across Mark Connolly, MD, a University of Chicago surgeon at the time. Of this meeting, she said, “He set it all out for me and answered all of my questions. I have an active sense of humor and he went along with that. I felt really connected to him.” Ms. Zaccone felt so comfortable, in fact, that she had a right breast mastectomy followed by chemotherapy and radiation at the University of Chicago.

To other patients, Ms. Zaccone advises, “Patients have to take more responsibility over their own health care. You are walking into a doctor’s office and they are giving you the best they can. You need to take some control and ask questions like, ‘Why,’ or ‘How come? Why can’t we do this?’ Patients need to start being engaged more in the conversation with their doctors.”

This concept of an open dialogue is evident in the practice and philosophy of “Chicago Style Surgery.” It is a partnership between the patient and doctor. The Department’s surgeons take all the time necessary to answer every question, discuss every patient’s condition to help them learn about it and explain the full range of options, even the ones that may not require surgery when appropriate. This allows the patients to understand their conditions and options, feel comfortable in moving forward and choose the best option of care.

To learn more about Chicago Style Surgery and the successful treatments of George Recentio and Suzanne Zaccone, go to http://surgery.uchicago.edu/patients/achsurgery/ or Scan the QR code with your smart phone and it will take you directly to this web page. To download a free QR scanner, visit getscanlife.com.
Beyond recruitment, the Department continues to evolve its programs to meet the needs of the residents. Among these efforts is the development and implementation of the Team Education Coordinator (TEC) system. Educational leadership selects a TEC for each clinical service line based on their leadership skills and commitment to education. The TEC serves an important role in the process of program evaluation and improvement. Each TEC assumes responsibility for developing and implementing the curriculum for the service, resident assessment, monitoring duty hours and informing faculty of new policies and procedures. Twice a year, the TEC reviews the resident evaluations of the clinical service, and improvement. Each TEC assumes responsibility for developing and implementing the Team Education Coordinator (TEC) system. Educational leadership selects a TEC for each clinical service line based on their leadership skills and commitment to education. The TEC serves an important role in the process of program evaluation and improvement. Each TEC assumes responsibility for developing the curriculum for the service, resident assessment, monitoring duty hours and informing faculty of new policies and procedures. Twice a year, the TEC reviews the resident evaluations of the clinical service and the faculty. This allows for a more formal process of reviewing programs as well as reviewing and responding to residents’ comments and incorporating their feedback into change.

TECs from the University of Chicago include:
- Nita Jaszewski, MD – Kaplan Service
- Konstantin Umanskiy, MD – Block Service F (1)
- Kevin K. Ruggin, MD – Diagnostic Service
- Vivek N. Prasadand, MD – Ferguson Service
- Christopher L. Skelly, MD – Vascular Surgery and Endovascular Therapy
- Eugene Choi, MD – Night Float
- John Renz, MD, PhD – Vascular Surgery
- Omar Morcos, MD – Vascular Surgery
- Joseph Muldoon, MD – Colon and Rectal Surgery
- David J. Winchester, MD – Surgical Oncology
- Marshall Baker, MD – Hepatobiliary Surgery
- Marshall Baker, MD – Hepatobiliary Surgery
- Wickii T. Vigneswaran, MD, Darwin Eton, MD, Eugene Choi, MD, and Konstantin Umanskiy, MD.

In addition to changes in the structure, the Open Surgical Skills Curriculum for PGY-1 and PGY-2/3 residents has undergone some significant changes that will enhance residents’ education and learning experiences. The PGY-1 curriculum, under the planning and direction of Konstantin Umanskiy, MD, will be centered around the basic surgical skills such as knot tying, instrument identification, suturing, placing central lines and inserting chest tubes. The PGY-2/3 curriculum, under the direction of Katherine Yao, MD, (NorthShore University HealthSystem) will include modules on advanced surgical skills, advanced instrument identification and labs for intestinal anastomoses. The program will take advantage of the state-of-the-art facilities of both the University of Chicago Simulation Center and the NorthShore University HealthSystem’s Center for Simulation and Innovation. It will add to the already existing laparoscopy curricula that are under the direction of Vivek N. Prasadand, MD, and Michael Ujiki, MD (NorthShore University HealthSystem).

Residents and fellows are not the only ones who benefit from learning. During the winter and spring quarters, Department faculty had the opportunity to participate in a six-month course on Teaching Effectiveness, offered by Nancy Schindler, MD, Associate Director of Teaching. The program required a substantial commitment of time on the part of the faculty. They demonstrated great enthusiasm for their roles as teachers. Participants included: Kevin K. Ruggin, MD, Wickii T. Vigneswaran, MD, Darwin Eton, MD, Eugene Choi, MD, and Konstantin Umanskiy, MD.

All of these changes have played a significant part in the Section of General Surgery receiving the full five year accreditation with no citation from the Accreditation Council for Graduate Medical Education (ACGME) Residency Review Committee, and the Surgical Oncology program receiving the full five year accreditation with no citation from the Society of Surgical Oncology in 2011.
Further investigation into the molecular mechanisms for polymer-based cellular protection and optimization of polymer structure are areas of ongoing collaborative research. This work has great translational potential to minimize or inhibit myocardial damage following revascularization in the setting of acute coronary ischemia and to improve myocardial protection during cardiac surgery including heart transplantation.

Dr. Alverdy’s lab also has a long-standing interest in the role of microbes/bacteria in surgical diseases. His lab has developed capabilities to genetically interrogate and sequence bacteria to define its role in diseases such as sepsis. Christopher L. Skelly, MD, has research interests in identifying the role of microbes in vascular diseases such as intimal hyperplasia, a disease in which scar tissue forms and re-blocks the artery. Dr. Skelly is investigating the role that microbes, including bacteria and viruses, may play in the development of atherosclerosis and aneurysmal degeneration of blood vessels.

The Department hosted a two-day interactive meeting in December 2010 in the Dennis and Claire Nardoni Conference Center and the University of Chicago Simulation Center. This event was jointly presented by the University of Chicago-Argonne National Laboratory Bioengineering Institute for Advanced Surgery and Endoscopy (BIASE), iSurgitec and the University of Chicago Simulation Center. The purpose of the meeting was to generate new lines of inquiry and technical approaches to define and solve critical challenges facing surgeons. Some of the themes included molecular and mechanical mechanisms of anastomotic healing and breakdown, novel molecular and modeling-based approaches to understand tissue healing and infection, and emerging methods to improve reliability and reduce patterns of failure in complex high-tech environments. Along with presentations from leading experts in the field, the event included live demonstrations of innovations in surgical stapling, advanced surgical robotics, innovations in surgical thyroid tension and an Immersive Touch® 3-D Surgical Simulator.

Shahab A. Akhter, MD, and John C. Alverdy, MD, have formed a collaboration to investigate the potential beneficial effects of high molecular weight PEG-based polymers in protecting the heart from ischemia-reperfusion injury. Dr. Alverdy’s lab has previously discovered that these synthetic polymers can protect intestinal epithelial cells in vitro and in the gut from various types of injurious stimuli through binding and stabilization of lipid raft domains and preserving membrane integrity and architecture. Dr. Akhter’s group, which studies G protein-coupled receptor signaling in the heart, has recently shown that PEG-based polymers are very effective in protecting isolated cardiac myocytes and the heart in vivo from ischemia-reperfusion injury through stabilization of lipid raft domains and upregulation of cell survival signaling.

“Discovery is our business,” said Charles B. Huggins, MD, the 1966 Nobel Prize winner for hormonal treatment of prostate cancer. This statement rings true for research in the University of Chicago Department of Surgery. From basic science to clinical investigations, the Department is pioneering a wide range of research that is transforming the field of surgery.

Vaccination is the most effective means for the prevention of disease, but numerous challenges are faced by both whole cell vaccines and protein-based alternatives, which require adjuvants to enhance their effectiveness. Joel Collier, PhD, and Anita S. Chong, PhD, continue their research collaboration in developing vaccine candidates for several diseases, including Staphylococcus aureus. In their research, Dr. Collier’s lab has designed and developed a self-assembling peptide system that, when coupled with peptide antigens, creates a strong immune response without the need for additional adjuvant, a substance that provokes an immune response and for this reason is used in synthetic vaccines and immunotherapies. The importance of this innovative line of research is highlighted by its recent publication in the prestigious journal Proceedings of the National Academy of Sciences (PNAS), and its recent funding award from NIH in 2011.
Principal Investigator | Research Title | Grant
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**CARDIAC AND THORACIC SURGERY**

**SPONSORED RESEARCH**

Shahab A. Akhter, MD | Conditionally Replicative Adenoviral Vectors for Malignant Glioma | Federal

Mark K. Ferguson, MD | A Double-Blind, Randomized, Placebo-Controlled Phase III Study to Assess the Efficacy of rMAGE-A1-ASV Antigen-Specific Cancer Immunotherapy in Advanced Thyroid Cancer with ReassureB R-MA-ASV Antigen-Non-Small-Cell Lung Cancer | Clinical Trial

Mohit P. Gupta, MD | The Role of PARP-1B2 Signaling in Heart Failure | Clinical Trial

Valente Jovananadis, MD | Evaluation of the HeartWare® Ventricular Assist System for the Treatment of Advanced Heart Failure - Continued Access Protocol | Clinical Trial

Issam A. Awad, MD, MSc, MA (hon) | Clot Lysis: Evaluating Accelerated Resolution of IVH Phase II (CLEAR III) | Federal

Mitchell C. Posner, MD | American College of Surgeons Oncology Group (ACOSOG) | Federal

Marco G. Patti, MD | Minimally Invasive Educational Support Agreement | Non-federal

Jose Guevara-Patiño, MD, PhD | Targeting HSP70 in Autoimmune Vitiligo | Federal

Eugene Choi, MD | LET-7 Regulation of Metastasis in Pancreatic Cancer | Non-federal

Peter Angelos, MD, PhD | American College of Surgeons Oncology Group (ACOSOG) - Ethics Committee | Federal

Valluvan Jeevanandam, MD | Evaluation of the HeartWare® Ventricular Assist System for the Treatment of Advanced Heart Failure | Clinical Trial

Interagency Registry of Mechanically Assisted Circulatory Support | Clinical Trial

**GENERAL SURGERY**

John C. Ahn, MD | Investigations of Hypoxia-Induced Genes as Sensing Tissue Oxygen Levels in the Vasculature | Federal

Gary C. Ay, MD | Molecular Biology of Host-tissue Shock | Federal

Emmanuel M. Afable, PhD | Hierarchical Representation and Simulation of Modular Cellular Systems | Non-federal

Prabhu Angadi, MD, PhD | American College of Surgeons Oncology Group (ACOSOG) - Ethics Committee | Federal

Eugene Chen, MD | LET-7 Regulation of Malignant Pheochromocytoma | Federal

Alessandro Ficarra, MD | Personalized Determinants in Patients After Isolated Aorta or Abdominal Aortic Aneurysm Surgery | Non-federal

A Multicenter, Randomized, Double-Blind, Placeto-Controlled Study to Evaluate the Efficacy and Safety of Intranasal (IN) Ulimorelin Administered Daily to Accurately Measure Gastronomical (GI) Motility in Subjects Who Have Undergone Partial Gastric Resection | Clinical Trial

A Phase III Prospective Randomized Trial Comparing Liposomal-Associated Resection Versus Open Resection for Rectal Cancer | Clinical Trial

Phase II Trial of Neoadjuvant Chemoradiation and Local Excision for UT2u Non-Rectal Versus Open Resection for Rectal Cancer | Clinical Trial

Jose Garcia-Pedraza, MD, PhD | Targeting HSP75 in Amniotic Fluid | Non-federal

DNA Vaccine for Seasonal and Pandemic Influenza | Non-federal

Functional Profiling of Tumor-Induced Immune Suppression | Non-federal

Novo Jorkevich, MD | Chicago Specialized Program of Research Excellence in Brain Cancer | Non-federal

Massimo G. Puri, MD | Minimally Invasive Educational Support Agreement | Federal

Michael C. Rosser, MD | American College of Surgeons Oncology Group (ACOSOG) | Federal

American College of Surgeons Oncology Group (ACOSOG) and the ACOGOG Statistics and Data Coordination Center | Federal

A Comprehensive Program to Preventive Cancer Prevention and Early Detection | Federal

Kevin S. Rogers, MD | Development of a Novel Molecular Fingerprinting Tool for the Detection of Promising and Invasive Malignant Pancreatic Cystic Neoplasms | Non-federal

**NEUROSURGERY**

Irving Avram, MD, MS, MA (Sum) | Clonolycin: Evaluating Accelerated Resolution of IVH Phase II (CLEAR III) | Federal

Genes and Proteins of Central Cerebellum Malformations | Federal

ICH Removal: Minimally Invasive Surgery v. IN | Federal

Irina Belyaeva, PhD | Non-Invasive Delivery to Stem Cells as Therapeutic Vectors to the Brain Tumors | Federal

Novel Tumor Selective TRAIL Fusion Protein for Treatment of the Brain Tumor | Non-federal

David M. Fein, MD, PhD | Automated Ventricular Analysis | Federal

**ORTHOPAEDIC SURGERY AND REHABILITATION MEDICINE**

Bar C. Haddad, MD, PhD | Effect of LS452P Core Therapy and PRP to a Rotator Cuff Tear | Non-federal

Tong-Chuan He, MD, PhD | Regulation of Beta-Catenin Signaling by Tyrosine Phosphorylation | Federal

With Intravitreal Ranibizumab in Subjects With Macular Edema Following Retinal Vein Occlusion | Clinical Trial

A 6-month, Phase II, Double-Blind, Multicenter, Randomized, Placebo-Controlled, Parallel Group Study to Assess the Safety and Efficacy of Topical Administration of Two Concentrations of IOP10191 (0.5% and 2%) Once Daily for the Treatment of Chronic Inflammation Caused by Topically Applied Methyl Ester of Ulrich's Enzymes Associated with Diabetes Retinopathy | Clinical Trial

A Phase III, Double-Blind, Multicenter, Active-Controlled, Parallel-Controlled Study of the Efficacy and Safety of 0.5 mg and 2.0 mg Ranibizumab Administered Monthly in Patients with Subthreshold/Nonvitreous Age-Related Macular Degeneration | Clinical Trial

Suvas K. Rani, MD | Student Flight Nurse Program | Non-federal

Kwame McLeod, MD | Towards a Vaccine to Prevent Toxoplasmosis | Federal

Optimising Inoculations of T. Gondii ENR | Federal

Treatments of Congenital Toxoplasmosis | Federal

Development of an Inhibitor for Toxoplasma Gondii | Federal

Immune Immuno-Reactors for Toxoplasma Gondii | Federal

**ORO-THALMOLOGY AND VISUAL SCIENCE**

Brian Toolan, MD | Resident Journal Club Grant | Non-federal

**OPTOMETRIST MANAGEMENT AND VISION SCIENCE**

Changbin Shi, MD, PhD | Pathogenetic Antigen in Human Cerebral Cavernous Malformation | Non-Federal

Catherine Ojakangas, PhD | Cerebral Mechanisms of Skill Learning in Humans | Federal

Seenu M. Hariprasad, MD | A Multicenter Randomized Study Evaluating Dosing Regimens for Treatment With Intravitreal Ranibizumab Injections in Subjects With Macular Edema Following Retinal Vein Occlusion | Clinical Trial

A 6-month, Phase II, Double-Blind, Multicenter, Randomized, Placebo-Controlled, Parallel Group Study to Assess the Safety and Efficacy of Topical Administration of Two Concentrations of IOP10191 (0.5% and 2%) Once Daily for the Treatment of Chronic Inflammation Caused by Topically Applied Methyl Ester of Ulrich's Enzymes Associated with Diabetes Retinopathy | Clinical Trial

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<td>Gary D. Sturteving, MD</td>
<td>RECOVERY-Time Source Site (TSS) in Support of Cancer Genome Atlas (TCGA) Program</td>
<td>Clinical Trial</td>
</tr>
<tr>
<td></td>
<td>Evaluation of the Use/Use of Patient Tissue in Prognosis and/or Prevention of Disease in Systemic Receiving Initial RG-I-1 or RG-I-2 Interferon Therapy for Primary High-Grade Papillary and Unifocal Urothelial Carcinoma of the Bladder</td>
<td>Clinical Trial</td>
</tr>
<tr>
<td></td>
<td>A Phase I Open-Label Exploratory Study of an Auranofin Non-Oral Conduct in Subjects Requiring Interventional Urologic Initiative Following Radical Cystectomy</td>
<td>Clinical Trial</td>
</tr>
<tr>
<td></td>
<td>A Phase III, Randomized, Active-Controlled, Open-Label, Multicenter Study to Evaluate the Efficacy and Safety of DT3400 (MCC) as Compared with Mitomycin C in the Intravesical Treatment of Subjects with BCG Recurrence or Refractory Non-Muscle Invasive Bladder Cancer</td>
<td>Clinical Trial</td>
</tr>
<tr>
<td>Donald J. Yarouz Grond, PhD</td>
<td>Androgen Independence and Gene Expression Analysis of CD133(+) Prostate Cancer Stem Cells</td>
<td>Non-Federal</td>
</tr>
<tr>
<td></td>
<td>Function of the Stem Cell Marker CD133(+) in the Progression of Castrate-Resistant Prostate Cancer</td>
<td>Non-Federal</td>
</tr>
<tr>
<td></td>
<td>Human Prostate Stem Cells in Prostate Diseases</td>
<td>Non-Federal</td>
</tr>
<tr>
<td>Gregory Zaggie, MD</td>
<td>Phase II Clinical Trial of Polyphenol E in Prostate Cancer</td>
<td>Mouse/Cellular Clinical Trial</td>
</tr>
<tr>
<td></td>
<td>Randomized Phase Controlled Adjunctive Study of Prevention of Prostate Cancer Recurrence after Radical Prostatectomy by Soy Protein Isolates</td>
<td>Clinical Trial</td>
</tr>
<tr>
<td></td>
<td>Phase III, Randomized, Double-Blin, Multi-centric Study of Polyphenol E in Men with High-Grade Prostatic Intratubular Neoplasia (HGPIN) and Small Acinar Prostate Carcinoma</td>
<td>Clinical Trial</td>
</tr>
<tr>
<td></td>
<td>Randomized Controlled Trial of Early Removal of Urinary Catheter with Superpwrin Tube Drainage versus Urinary Catheter Drainage Alone Following Radical Anterior-Laparoscopic Radical Prostatectomy</td>
<td>Clinical Trial</td>
</tr>
<tr>
<td><strong>VASCULAR SURGERY AND ENDOVASCULAR THERAPY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christopher L. Selfly, MD</td>
<td>Harpo Nymphs View Therapy in the Treatment of Nonsurgical Hypertension</td>
<td>Feder &amp; Non-Federal</td>
</tr>
<tr>
<td></td>
<td>Stenting and Angioplasty With Protection in Patients at High-Risk for Endarterectomy</td>
<td>Clinical Trial</td>
</tr>
</tbody>
</table>

10 The University of Chicago Department of Surgery

2011 Annual Report
The Section of Urology has once again participated in the Indianapolis 500 Mini-Marathon in May 2011 to raise funds to support the Urology Research Program. This was their sixth year participating in the event as the “Urinary Track Team.”

A couple of times a year, cardiac surgeon Valluvan Jeevanandam, MD, travels to a charity hospital in Puthaparthi, India for one to two weeks at a time to provide free cardiac surgery, with an emphasis on complex cases. On these trips, he performs upwards of 20 charity cases per week to those who cannot otherwise afford care. Without Dr. Jeevanandam’s help, most patients often face a life expectancy of less than one year and have no other treatment options. Additionally, Dr. Jeevanandam trains local surgeons to do these complex cardiac surgeries so they can better serve their communities.

Through the auspices of Health Volunteers Overseas, orthopaedic surgeon Daniel Mass, MD, and hand fellow Hussein Turki, MD, treated hand patients in Lima, Peru. This was Dr. Mass’ 14th volunteer trip to Peru. Drs. Mass and Turki performed surgical procedures, including pollicizations, several muscle transfers for brachial plexus palsies, trauma reconstructions after crush injuries as well as tendon transfers for nerve palsies. Dr. Mass also trained local physicians interested in hand surgery. Topics included rheumatoid arthritis, tendon transfers, wrist arthroscopies, distal radius fractures, trauma reconstruction and replantation.

The proceeds from this benefit supported Medical Aid for Children of Latin America (MACLA). David H. Song, MD, MBA, an active volunteer and member of the Board of Directors for MACLA, and a team of surgeons and anesthesia providers travel annually to the Dominican Republic to provide free surgical care to children with congenital deformities, such as clefts and facial asymmetry, that would otherwise be unaffordable. The fundraiser was a huge success. The concert drew over 400 people, raised over $23,000 from the door contributions and silent auction items and nearly $25,000 in online contributions.

The fourth annual Discover Camp for children with Chiari Malformation, Spina Bifida and other Neurosystem congenital anomalies was held in July 2011. The camp is sponsored by pediatric neurosurgeon David M. Frim, MD, PhD, who works with many of these families, as an opportunity to enjoy summertime activities in a safe and supportive environment.
**DEPARTMENT OF SURGERY BY THE NUMBERS**

**CLINICAL ACTIVITY**

<table>
<thead>
<tr>
<th>Field</th>
<th>Cases</th>
<th>Visits</th>
<th>RVUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiac and Thoracic Surgery</td>
<td>1,157</td>
<td>3,231</td>
<td>57,996</td>
</tr>
<tr>
<td>General Surgery</td>
<td>2,489</td>
<td>13,770</td>
<td>69,353</td>
</tr>
<tr>
<td>Neurosurgery</td>
<td>990</td>
<td>6,479</td>
<td>30,542</td>
</tr>
<tr>
<td>Ophthalmology and Visual Science</td>
<td>301</td>
<td>10,364</td>
<td>49,607</td>
</tr>
<tr>
<td>Orthopedic Surgery and Rehabilitation Medicine</td>
<td>2,797</td>
<td>22,241</td>
<td>88,769</td>
</tr>
<tr>
<td>Otolaryngology/Head and Neck Surgery</td>
<td>2,081</td>
<td>17,394</td>
<td>68,258</td>
</tr>
<tr>
<td>Pediatric Surgery</td>
<td>1,123</td>
<td>2,149</td>
<td>22,842</td>
</tr>
<tr>
<td>Plastic and Reconstructive Surgery</td>
<td>1,397</td>
<td>6,416</td>
<td>62,107</td>
</tr>
<tr>
<td>Transplantation</td>
<td>525</td>
<td>1,991</td>
<td>20,014</td>
</tr>
<tr>
<td>Urology</td>
<td>2,089</td>
<td>9,235</td>
<td>65,671</td>
</tr>
<tr>
<td>Vascular Surgery and Endovascular Therapy</td>
<td>416</td>
<td>1,196</td>
<td>20,560</td>
</tr>
</tbody>
</table>

**RESEARCH ACTIVITY**

<table>
<thead>
<tr>
<th>Research Grants</th>
<th>Active Grants</th>
<th>Over 600 Peer-Reviewed Publications</th>
<th>91 million Federal Funding</th>
<th>$11.3 million Total Grant Funding</th>
</tr>
</thead>
</table>

**EDUCATIONAL ACTIVITY**

<table>
<thead>
<tr>
<th>Field</th>
<th>Residents</th>
<th>Fellows</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Surgery</td>
<td>54</td>
<td>1</td>
</tr>
<tr>
<td>Neurosurgery</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Ophthalmology and Visual Science</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Orthopedic Surgery and Rehabilitation Medicine</td>
<td>20</td>
<td>6</td>
</tr>
<tr>
<td>Otolaryngology/Head and Neck Surgery</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Plastic and Reconstructive Surgery</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Urology</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Vascular Surgery and Endovascular Therapy</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Pediatric Surgery</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Plastic and Reconstructive Surgery</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Transplantation</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Urology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Vascular Surgery and Endovascular Therapy</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Total Residents** 120  Total Fellows 29

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Raphael C. Lee, MD, ScD, DSc(hon)
America’s Top Doctor, America’s Top Plastic Surgeons, U.S. News & World Report

America’s Top Doctor, Castle-Connolly Medical Ltd
America’s Top Surgeon, Consumers' Research Council of America

Traverser, Midwestern Society of Plastic Surgeons
President-Elect, American Institute for Medical and Biological Engineering
President, Dienst MD Society

Board of Directors, Drexel University
Board of Directors, Biomedical Engineering Society

Advisory Board for the EBICS, NSF Engineering Research Center

Technology and Health Economics Symposium Chair, American Association for the Advancement of Science Annual Conference

Invited Symposium Chair, American Heart Association, Renovascular Research Society

Russell R. Reid, MD, PhD
Co-Chairman, Association for Osteosynthesis/Association for the Study of Internal Fixation’s Basic Principles in Cervical/Thoracic Fixation

David H. Song, MD, MBA
Scientific Program Chair, American Society of Reconstructive Microsurgeons

Course Director, First Annual Chicago Breast Reconstruction Symposium

---

Joha Roos, MD, PhD
Invited Moderator, Invited Speaker, American Transplant Congress

Invited Participant, U.S. Department of Health and Human Services, Health Resources and Services, Administration Organ Donation Task Force

Invited Speaker, National Association of Transplant Coordination Annual Meeting

National Ultrasonic Faculty, American College of Surgeons

Medical Advisory Committee, American Liver Foundation

Advisory Council, Gift of Hope Organ and Tissue Donor Network

Piotr Wiatrowski, MD, PhD

Basic Science Mentor Award, Transplantation Society and The American Society of Transplantation at MTS Basic Science Symposium/HESOT Basic Science Symposium, Cape Cod, MA

Investigator Travel Award, The International Islet and Pancreas Transplantation Association Congress, Prague

Scientific Award, 18th Annual Charles B. Huggins Research Symposium, The University of Chicago Department of Surgery

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Urology

Gregory Bale, MD

Top Doctors for Women (Urology), Chicago magazine

Scott Eggens, MD

Recipient of the Year, Journal of Urology

Mohan S. Gandotri, MD

Humanitarianism Award (towards the citizens of Haiti), The University of Chicago

Honorable Mention for Take Home Messages, World Congress of Endourology, Chicago, IL

Best Doctor in America

Arih L. Shalhay, MD

President, 28th World Congress of Endourology Meeting, Chicago, Illinois

Norm Smith, MD

Selected for American Urological Association’s Leadership Program

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Vascular Surgery & Endovascular Therapy

Christopher L. Skelly, MD

Associate Examiner, American Board of Surgery

Associate Scientific Advisor, Science Translational Medicine

Hepatotherapy Seminar

Electoral Membership, The Society of University Surgeons

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16 The University of Chicago Department of Surgery

2011 Annual Report
Philanthropic support enhances patient care, research and education across the Department, facilitating endeavors such as innovative surgical techniques, laboratory research into new therapies, minimally invasive and robotic surgery, as well as fellowships and named professorships. Visionary donors to the New Hospital Pavilion, designed for optimal patient-centered care in the 21st century, are helping advance this premier facility that answers today’s surgical requirements while providing the flexibility to adapt to tomorrow’s techniques and equipment.

Opportunities for involvement abound throughout the Department. Upcoming events include Discovery & Impact programs, privately-hosted dinners and lectures. For more information about philanthropic giving, inspiring events taking place this year or other ways you can make a difference, please contact:

Stephanie Dahl
Campaign Director
University of Chicago Medical Center
sdahl@mcdmail.uchicago.edu
(773) 834-4726
http://supportucmc.uchicago.edu

Major donors to the Department for Fiscal Year 2011 include:

- Mr. and Mrs. Joel Barnett
- Alvin H. Baum Family Fund
- John Benfield
- The Brinson Foundation
- Mr. Charles E. Compton
- Gary and Jodi Callen
- James and Bernita Faulkner
- The Foley Family Foundation
- Goldman Sachs & Co.
- Duanna Hedges
- Patricia Ismail
- Mr. and Mrs. Mark Kaufman
- Crenney A. Klamann Trust
- Kovler Family Foundation
- Estate of Harold Laufman, MD, PhD
- Robert Lopp
- Mr. James P. McHugh
- John and Marlane Paleczny
- Michael Rolfe Pancreatic Cancer Foundation
- Mr. and Mrs. Charles Rivkin
- Mr. and Mrs. Theodore Roberts
- Drs. Rostik and Joan Zajtchuk
- Michael and Diane Yang
- Mr. and Mrs. Richard Tinberg
- Mr. E. Herbert Timney
- Dr. and Mrs. James Williams
- Zaccone Family Foundation

We would like to extend our gratitude to all of the Department’s supporters. Because of the generosity of this community of donors and volunteers, we continue to accomplish our priorities and realize our aspirations. These partnerships are integral to meaningful progress and intricately connected to many of the highlights shared throughout this annual report.

A key element of “Chicago Style Surgery” is patient education. During a consultation, a surgeon will take as much time as necessary to answer all of the patient’s questions to explain as clearly as possible the patient’s condition, options, prognosis and recovery. Many times, the surgeon will end up sketching a diagram of what will happen during the planned surgical procedure to help the patient visualize the surgery.

In keeping with the theme of “Chicago Style Surgery,” each section report this year features a surgeon’s drawing of a typical procedure performed by that Section.

Vallveesan Jeevanandam, MD, Jeffrey B. Matthews, MD, and Trustee Jim Frank enjoy conversation. Arieh L. Shalhav, MD, speaks to the audience about his work as a pioneer in minimally invasive urologic cancer surgery.
The Section of Cardiac and Thoracic Surgery draws upon a tradition of innovative clinical practice and scientific research to provide the highest level of patient care. The clinical faculty provides treatment to the most complex patients, with particular specialization in heart and lung transplants, ventricular assist device implants, complex reconstruction, minimally invasive valvular and arrhythmia surgeries, malignancies, esophageal diseases as well as high-risk pulmonary resection. The Section embodies the “Chicago Style Surgery” basics by ensuring our patients are educated each step of the way from the initial consultation to follow-up care. In addition, the physician-scientists within the Section pursue a wide range of projects, including bench, translational and outcomes research focused on cardiac and thoracic diseases.

Section Highlights and Accomplishments

Mahesh P. Gupta, PhD, has received funding for a second R01 grant to study the “Activation of Sirtuins to Prevent Adverse Cardiac Remodeling.”

Mahesh P. Gupta, PhD, is senior author in a manuscript to be published in Science Magazine entitled “Regulation of Akt-signaling by SIRT1.”

Gerhard Ziemer, MD, PhD, officially joined the Section in April 2011. He is a world-renowned Pediatric Cardiac Surgeon and member of the World Society for Pediatric and Congenital Heart Surgery.

In one of his first two cases at the University of Chicago Medical Center, Gerhard Ziemer, MD, PhD, performed the Norwood procedure; this complex operation defines a comprehensive surgical program.

In collaboration with Cardiology, the Section's Heart Failure program is one of the top five implanting programs in the country for Ventricular Assist Devices.

Since his start in September 2010, Mark Russo, MD, MSc, has authored eight articles and has presented these papers at numerous national meetings.

Shahab A. Akhter, MD, was awarded an R01 grant for “Inhibition of GRK2 to Prevent Ventricular Remodeling and Heart Failure After CABG.”

Received Joint Commission recertification for our VAD program.

Enrolled in the Cardiothoracic Surgical Trials Network (CTSN), a network that enables research teams led by cardiac surgeons to evaluate newer therapies and techniques as they move from laboratory science to broad clinical use.

Wickii T. Vigneswaran, MD, and Mark K. Ferguson, MD, are now performing robotic surgery procedures such as pulmonary lobectomies, segmentectomy and mediastinal procedures including thymectomy.

Valluvan Jeevanandam, MD, has been approved to enroll patients in the Heartware REVIVE-IT trial which will compare whether non-transplant eligible patients with heart failure less advanced than that of current LVAD recipients do better with implanted devices than with current medical therapy.

Under the direction of Mark K. Ferguson, MD, the Section enrolled its first ACGME-accredited Thoracic Residency trainee Sampurna Tuladhar, MD.

Wickii T. Vigneswaran, MD, was awarded an honorary professorship at the Universidad Ricardo Palma in Lima, Peru.

Revived the University of Chicago Aortic Specialty Team (UCAST) and have renamed it The University of Chicago Center for Aortic Diseases (UCCAD) to be more inclusive of the Section of Vascular Surgery and Endovascular Therapy as well as Cardiology. UCCAD will continue to offer referring physicians and outside hospitals 24/7 access to a multidisciplinary team of specialists able to assist in complex aortic emergencies.

Established the University of Chicago Medical Center Cardio and Pulmonary Support (CAPS) Interdisciplinary team with the Emergency Department, Cardiology, Pulmonary and the University of Chicago Aeromedical Network (UCAN) to offer a miniaturized portable extracorporeal membrane oxygenation (ECMO) option to the very sick patient population.

Faculty Listing

Professors of Surgery
Mark K. Ferguson, MD
Valluvan Jeevanandam, MD
Wickii T. Vigneswaran, MD
Gerhard Ziemer, MD, PhD

Associate Professors of Surgery
Mahesh P. Gupta, PhD
Shahab A. Akhter, MD

Assistant Professor of Surgery
Mark Russo, MD, MSc

Research Associate
(Assistant Professor of Surgery)
Ricky Mathena, PhD

# denotes new faculty
The Section of General Surgery has maintained its prominence as a national and international leader in the surgical management of patients with complex diseases by building on its rich heritage while continually evolving to define today’s and tomorrow’s standards of care. This past year, the Section of General Surgery expanded its faculty in critical areas of breast surgical oncology, endocrine surgery and minimally invasive surgery. We are exploring new surgical approaches to a variety of difficult clinical problems while leading the way in ensuring surgery. The Section leads the way in applying minimally invasive surgical techniques, such as laparoscopic, robotic and endoscopic approaches. Section faculty are demonstrated experts who provide state-of-the-art treatment for patients with a variety of diseases, including: pancreatic, esophageal, gastric, colorectal and breast cancer as well as inflammatory bowel disease.

Education is the backbone of the Section’s academic mission. Educational efforts interweave training in advanced surgical techniques with the only surgical ethics fellowship in the United States. This fosters a healthy “Chicago Style Surgery” environment, grounded in professionalism, which allows patients seeking an opinion to receive a surgical recommendation, educate them regarding the full gamut of options and discuss what is appropriate for each individual’s clinical situation to achieve an optimal outcome.

Section Highlights and Accomplishments

**Peter Angios, MD, PhD** received the Third Annual Faculty Physician Peer Role Model Award from the University of Chicago Roadmap to Professionalism Steering Committee. He was also named one of America’s Top Surgeons by the Consumer’s Research Council of America.

**Edwin L. Kaplan, MD** was named one of America’s Top Surgeons by the Consumer’s Research Council of America. He was named one of America’s Top Surgeons by the American College of Surgeons. He also completed his term as President-elect of the Society for Surgery of the Alimentary Tract. Dr. Matthews also presented the 57th Samuel Clark Harvey Memorial Lecture at Yale University in New Haven, CT.

**Alessandro Fichera, MD** received the award for Best Video at the American Society of Colon and Rectal Surgery annual meeting.

**Eugene Choi, MD** was promoted to Assistant Professor of Surgery.

**John C. Alverdy, MD** was promoted to Assistant Professor of Surgery.

**Mitchell C. Posner, MD** received the award for Best Video at the American Society of Colon and Rectal Surgery annual meeting.

**Jeffrey B. Matthews, MD** received the award for Best Video at the American Society of Colon and Rectal Surgery annual meeting.

**Swati Kulkarni, MD** was named one of America’s Top Surgeons by the American College of Surgeons’ National Accreditation Programs for Breast Centers.

**Konstantin Umanskiy, MD** was named a Governor of the American College of Surgeons. Dr. Alverdy is also a recipient of an NIH Award to study microbial pathogenesis of anastomotic leak.

**Nora Jakowicki, MD** received the Favored Faculty Award from the University of Chicago Pritzker Medical School Class of 2011 and led the University of Chicago Breast Center in achieving full accreditation with the American College of Surgeons’ National Accreditation Programs for Breast Centers.

**Peter Angelos, MD, PhD** received the Third Annual Faculty Physician Peer Role Model Award from the University of Chicago Roadmap to Professionalism Steering Committee. He was also named one of America’s Top Surgeons by the American College of Surgeons. He also served as a faculty in Robotic Surgical Skills station during the Medical Student Simulation Workshop at the University of Chicago Medical Center in 2011.

**Gary C. An, MD** served as Host and Chair of the Program Committee of Swanson 2011 (Annual Meeting of the Swann Development Group) in Santa Fe, NM.
The Section of Neurosurgery at the University of Chicago has a rich history that combines research, education and clinical innovation to provide excellence in patient care. Over the last year, the Section has added a new faculty member, a fellowship-trained, pediatric neurosurgeon who joined in June 2011. The expertise of the clinical faculty encompasses the entire spectrum of clinical neurosurgery. The neurosurgery residency program includes five men and seven women who are pursuing graduate training in neurosurgery. The Section’s five nurse practitioners and six nurse associates care for patients in both inpatient and outpatient settings. The faculty physicians continue to expand their clinical practice locations to better serve the patients’ needs.

All of the neurosurgeons combine subspecialty clinical expertise and advanced technology to provide the most effective and up-to-date treatments for the most complex of neurosurgical problems. The Section is committed to providing each patient with individualized, well developed and interdisciplinary options for care through the “Chicago Style Surgery” approach. From every first encounter and onward, the faculty focus on educating patients about available treatments and on working together to construct a plan that best fits the specific needs of each individual. The Section’s clinical expertise goes beyond delivering the best in medical care as research activities remain an integral part of the mission. As the Section continues to engage in translating investigative work into bedside care, the work to advance treatment paradigms in each of the neurosurgical specialties continues to grow. These subspecialties include: neurovascular surgery, neuro-oncology, surgical epilepsy, spinal surgery, pediatric and congenital neurosurgery, and functional/transcranial neurosurgery.

Section Highlights and Accomplishments

Ranked #29 among Neurosurgery/Neurology programs by U.S. News & World Report (July 2011) and #31 for Pediatric Neurosurgery/Neurology programs.

Sandi Lam, MD, joined the Section in June 2011 as an Assistant Professor of Surgery. She is a fellowship-trained pediatric neurosurgeon with surgical interests that include epilepsy, hydrocephalus, brain and spinal tumors, vascular anomalies, craniosynostosis and craniofacial anomalies. Dr. Lam is currently working on collaborative outcomes research in neurosurgery. She has an interest in providing medical care to understand overseas populations and has traveled to Kenya to provide neurological care.

Bahktiar Yamin, MD, has a newly funded NIH/NICU project entitled “Neuroparticles and Neuropeptides for Gliala Targeting.” Maciej S. Lesniak, MD, has two upcoming NIH-funded research projects including: Magnetic Vortex Nanodiscs for Glioma Therapy and Nanobody Photocatalyst for Treated Brain Cancer Therapy. For more information about Dr. Lesniak’s groundbreaking research in brain cancer, please visit www.lesniaklab.com.

The Neuromodulation Laboratory continues its NIH-funded research on the biology of cerebrovasular malformations. Issan A. Awad, MD, MSc, MA (hon), and colleagues described the first reliable model of central cavernous malformations in mice, based on heterozygous state and double hits, mimicking human lesions (Human Molecular Genetics, 2011). Based on previous reports by the same group on ROCK activation in relation to the cavernous malformation genes, Dr. Awad and colleagues used their new model to demonstrate the first evidence of therapeutic effect in vivo in this disease, using ROCK inhibitors (Stroke, in press, 2011).

The Hemorrhagic Stroke Trials Surgical Center in the Section of Neurosurgery continues to oversee surgical performance in two large NIH/NINDS multi-institutional trials for intracerebral hemorrhage (MISTIE) and intraventricular hemorrhage (CLEAR). Novel paradigms of surgical procedure optimization have been developed in Phase II studies, leading to enhanced surgical performance in Phase III trials, with ongoing telemonitoring and telemonitoring by the Trials Surgical Center.

Co-principal investigator David M. Frim, MD, PhD, and Maureen Lacy, PhD, have received grants to study therapeutic cognitive interventions in children with Hydrocephalus and Chiari Malformation type I.

Ben Z. Reinhberg, MD, was named the Editor-in-Chief of Neurological Research in February 2011. He was also named the Neurological Surgery Residency Program Director in September 2011.

The fourth annual Discover Camp for children with Chiari Malformation, Spina Bifida and other neurosystem congenital anomalies was held in late July. The camp is sponsored by pediatric neurosurgeon David M. Frim, MD, PhD, who works with many of these families, as an opportunity to enjoy summertime activities in a safe and supportive environment.

Leila Khorasani, MD, has established a pediatric neurosurgical practice in Elmhurst, Evanston and two locations in the City of Chicago.

The Section of Neurosurgery is hosting quarterly educational symposiums through the Heinrich Kluver Memorial Lectureship Endowment. In the past year, the Section has hosted internationally renowned speakers and held events covering: practical advances in hemorrhagic stroke, the future of stereotactic and functional neurosurgery, and the diagnosis and treatment of malignant gliomas.

Faculty Listing

Professors of Surgery
Issan A. Awad, MD, MSc, MA (hon)
David M. Frim, MD, PhD
Issam A. Awad, MD, MSc, MA (hon)
Maciej S. Lesniak, MD
V. Luis Toro, MD, PhD*
Jeffrey Frank, MD*
Gregory Chintanvirdi, MD*
Associate Professors of Surgery
Frederick Brown, MD
Ben Z. Reinhberg, MD
Peter Wasseck, MD
Saad Mutlu, MD*
Maureen Lacy, PhD*
Assistant Professors of Surgery
Patrick Galbraith, MD
Bahktiar Yamin, MD
Sandi Lam, MD#
Leila Khorasani, MD
M. Kelly Nicholas, MD, PhD*
Fernando Goldhaber, MD*

A affiliated Clinical Faculty
Leonard Kranzler, MD,
Clinical Professor of Surgery

Research Associates (Assistant Professors of Surgery)
Irista Belayneh, PhD
Catherine Ojakangas, PhD
Robert Shuckas, MD
Changhui Shi, MD, PhD
Ilya Ulanov, DVM, PhD

Postdoctoral Scholars
Chanon Cooley, PhD
Pragati Nigam, PhD
Melanie Prand, PhD
Derek Wainwright, PhD

# denotes new appointment
* denotes secondary appointment
# denotes new faculty

The University of Chicago Department of Surgery

2011 Annual Report 25
OPHTHALMOLOGY AND VISUAL SCIENCE

The Section of Ophthalmology and Visual Science provides comprehensive medical and surgical treatment of eye diseases. Offered services include: cataract surgery with lens implantation, corneal transplantation, laser and surgical treatment for glaucoma, advanced vitreoretinal procedures, laser and injection treatment for diabetic retinopathy and age-related macular degeneration, eyelid and orbital oculoplastic surgery, eye muscle surgery for strabismus in children and adults, and neuro-ophthalmologic diagnostic services.

The Section leads the way in cutting-edge treatment of retinopathy of prematurity (ROP), spearheaded by Interim Section Chief Mark Greenwald, MD, with the assistance of retina specialists Seenu M. Hariprasad, MD, and Michael Blair, MD. Recent therapeutic advances have significantly improved the outlook for infants afflicted with this potentially blinding condition. Dr. Hariprasad also performs state-of-the-art surgery for a wide range of retinal disorders in adults.

Faculty members are strongly committed to education at all levels. Susan Ksiazek, MD, oversees the teaching of Pritzker medical students, all of whom receive instruction in diagnosis of eye disease from Section faculty and residents, and of the residents (three per year) throughout their specialty training.

The Section of Ophthalmology and Visual Science is fully committed to the practice of “Chicago Style Surgery,” providing not only the most advanced care, but the patient education that is essential to optimal decision-making and satisfaction.

Section Highlights and Accomplishments

Rima McLeod, MD, received funding from the NIH for two R01 grants, two U01 grants and an SBIR grant. The goals of her research are to better understand tumourplasia and its pathogenesis, and to develop better treatment regimens and vaccines.

Susan Ksiazek, MD, was promoted to Associate Professor of Surgery.

Seenu M. Hariprasad, MD, was named one of 135 Leading Ophthalmologists in America and was listed as a Top Doctor by U.S. News & World Report.

Louise Sclafani, OD, was an invited speaker for the Vanderbilt University Department of Ophthalmology, and was cited or quoted in several articles in trade and lay health-related publications.

Michael Blair, MD, Jennifer Galvin, MD, and Laura Sanders, MD, joined the Section in 2011.

Graduating senior residents Ajay Singh, MD, and Gioconda Mojica, MD, matched with top choice subspecialty fellowship programs in retina and cornea, respectively.

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Graduating senior residents Ajay Singh, MD, and Gioconda Mojica, MD, matched with top choice subspecialty fellowship programs in retina and cornea, respectively.

Faculty Listing

Professors of Surgery
J. Terry Erneus, MD
Mark Greenwald, MD
Rima McLeod, MD
Steven K. Shevell, PhD*

Associate Professors of Surgery
Seenu M. Hariprasad, MD
Susan Ksiazek, MD
Louise Sclafani, OD

Assistant Professor of Surgery
Michael Saidel, MD

*$ denotes secondary appointment
# denotes new faculty

Clinical Associates of Surgery
Chris Albanis, MD
Anagha Anghale, MD
Michael Blair, MD#
Jennifer Galvin, MD#
James Green, MD
Rama Jager, MD
Valeria Karsnov, OD
Jeffrey Nichols, MD
A. Greenshine Noble, MD, PhD
Thomas Patrianakos, DO
Laura Sanders, MD#

Mark Greenwald, MD
Interim Section Chief
Professor of Surgery

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Hue L. MD, continues to review grants for the American Cancer Society, Orthopaedic Research and Education Foundation and the Liddy Shriver Foundation. He is a reviewer for The American Academy of Orthopaedic Surgeons’ Career Development Fellowship. Dr. Luu's research focus is on Insulin-Like Growth Factor Binding Protein 5 (IGFBP5). He has completed a scientific investigation of the Early Walk Program for minimally invasive knee replacement.

David Manning, MD, was promoted to Associate Professor of Surgery. He was also the “Back to Basics: Hip and Knee” course, co-sponsored by the International Congress for Joint Reconstruction and the Mid-American Orthopaedic Association (MAOA). Dr. Manning is a reviewer for the Journal of Bone and Joint Surgery. He completed a scientific investigation of the Early Walk Program for minimally invasive knee replacement. This resulted in presentations at the American Academy of Orthopaedic Surgeons and MAOA. Dr. Manning is Director of the Third Year Medical Students Orthopaedic Surgery Rotation, Director of the Fourth Year Medical Student Surgery Sub-Internship and manages resident recruitment for Orthopaedic Surgery.

John Martell, MD, is Director of the Orthopaedic Biomedical Imaging Institute at Weiss Memorial Hospital. He is Principal Investigator for the Harris Foundation’s Mid-term Longevity Study. He is also Co-Instructor for the Musculoskeletal Clinicopathologic Seminar and Course Director for the Orthopaedic Basic Science Curriculum.

Tong-Chuan He, MD, PhD, continues research on cancer, stem cells and bone biology. He collaborates with other faculty in the areas of tendon and ligament repair, articular cartilage regeneration and implant wear-induced osteolysis and spine. Dr. He is the member of the Committee on Molecular Medicine, the Committee on Cancer Biology, the Committee on Genetics and the Committee on Cell Physiology at the University of Chicago. He is an Adjunct Professor at Concordia University’s School of Biomedical Engineering in China and member of the International Chinese Hard Tissue Society.

Sherrin Ho, MD, is President of the Illinois Association of Orthopaedic Surgeons. He successfully chaired the annual Orthopaedic Research Conference and continues his role as Program Director for the American Orthopaedic Society for Sports Medicine Fellowship.

Roderick Birnie, MD, continues his busy clinical practice in hand and upper extremity surgery. He was a faculty contributor for the 2011 Annual Primary Care Orthopaedics Conference and is President of the Society for Surgery of the Hand.

Henry Finn, MD, continues as the Medical Director for the Weiss Memorial Hospital Chicago Center for Orthopaedics, which he founded with the WMS administration. Dr. Finn was the recipient of the 2010 Wilkins University Health Sciences Distinguished Service Award.
OTOLARYNGOLOGY-HEAD AND NECK SURGERY

The Section of Otolaryngology-Head and Neck Surgery (OHNS) performs complete diagnostic evaluations to determine the cause and extent of the full range of Ear, Nose and Throat (ENT) disorders. The Section treats patients using the most advanced surgical and non-surgical techniques and offers comprehensive services in all areas of ENT, with subspecialties in chronic nasal and sinus disorders, oclusion, head and neck cancer, minimally invasive surgery, allergies, hearing aid dispensing as well as speech language and voice disorders. Consistent with the “Chicago Style Surgery” philosophy, the faculty and staff ensure that patients have an understanding of their treatment options and that their questions and concerns are addressed.

This past year, OHNS surgeons performed over 2,000 cases and conducted over 17,000 outpatient visits. The Section advanced several ranking spots in the U.S. News & World Report. The annual Alumni Lecture featured Joan T. Zaltchuk, MD, CCL (ret.), MC U.S. Army, with numerous program alumni attending. In May 2011, the Section held its annual Fernandez-Lindsay Lecture with Charles Liberman, MD, as the lecturer. The past year also proved to be busy in the realm of publications, with a total of 27. The Section successfully recruited an additional head and neck surgeon, Alexander Langerman, MD, an alumnus of the program, who started in October 2011.

Section Highlights and Accomplishments

Robert Nadler, MD, was named Guest Examiner for the American Board of Otolaryngology, Assistant Editor for Rhinology and Editor for Rhinoinnactivin: New Perspectives in Topical Treatment. He was also named to the Laryngoscope Editorial Board.

Kerstin Stenson, MD, was appointed a Fellow at Large of the American Head and Neck Society for 2010-2013.

Dana Sunkind, MD, continues research into child speech and hearing development through the “Thirty Million Words” project. She also received a grant to conduct a study entitled, “A Parent-Directed Multimedia Early Intervention Tool to Improve Outcomes in Underserved Children who are Deaf or Hard of Hearing.”

Fuad Baroudy, MD, was named Chair of the Immunotherapy, Rhinitis, Sinusitis, Ocular Diseases and Cough (IRSOC) Interest Section of the American Academy of Allergy Asthma and Immunology.

Jayant Pinto, MD, in conjunction with Hari Bandilla, MD (Pediatric Sleep Medicine), has initiated and set up a pediatric complex sleep apnea clinic offering innovative diagnostic and surgical approaches to treat children with persistent obstructive sleep apnea after adenotonsillectomy.

Jayan Pinto, MD, completed his first year as a KL2 Scholar under the Institute of Translational Medicine at The University of Chicago. His research focuses on the genetics of nasal traits including sinusitis, oclusion and rhinitis.

Fuad Baroudy, MD, in conjunction with Hari Bandilla, MD (Pediatric Sleep Medicine), has initiated and set up a pediatric complex sleep apnea clinic offering innovative diagnostic and surgical approaches to treat children with persistent obstructive sleep apnea after adenotonsillectomy.

Jayan Pinto, MD, received a Juris Doctor Degree from DuPaul University College of Law.

Jayan Pinto, MD, submitted his first patent on sinus imaging techniques with Samuel Armato, PhD. Associate Professor of Radiology. Dr. Pinto was also named to the Research Committee of the American Rhinologic Society.

Faculty Listing

Robert Nadler, MD
Section Chief
Professor of Surgery

Fuad Baroudy, MD
Assistant Professor of Surgery

Jayan Pinto, MD
Clinical Professor of Surgery

Fuad Baroudy, MD, won funding from The University of Chicago China Center to support a conference on collaborative research and training on respiratory disease of the upper airway to be held in 2012 in Beijing. The project is entitled The Beijing-Chicago Initiative for Respiratory Disease Research, and partners include Yongxing Wei, MD, Capital University School of Medicine in Beijing.

Jayan Pinto, MD, presented results from his first major study of ethnic differences in olfactory decline in aging using data from the National Social Life, Health and Aging Project at the major olfaction meeting in Dresden, Germany. The study showed that African Americans and Hispanics lose the ability to smell and are much more likely to have smell loss than white subjects. Collaborators include Linda Wain, PhD, in Sociology and Martha McClintock, PhD, in Psychology.

Ellen MacCracken, MS, CCC-SLP, was named a member of the Adjunct Faculty in Communication Disorders & Sciences (CDS) at Rush University.

Anthony Gorovitz, MD, received a Juris Doctor Degree from DuPaul University College of Law.

Jayan Pinto, MD, submitted his first patent on sinus imaging techniques with Samuel Armato, PhD. Associate Professor of Radiology. Dr. Pinto was also named to the Research Committee of the American Rhinologic Society.

Kimberly Saenz, MD
Assistant Professor of Surgery

Robert Nadler, MD
Section Chief
Professor of Surgery

Fuad Baroudy, MD
Assistant Professor of Surgery

Jayan Pinto, MD
Clinical Professor of Surgery

Clinical Associate of Surgery

Joseph Tokacic, DDS

Research Associate

Assistant Professor of Surgery

Mohamed Bashir, PhD

Postdoctoral Scholars

Xiaodan Jiang, MD

Tarit Muninnobpamasa, MD

Mohamed Bashir, PhD

# denotes new faculty

The University of Chicago Department of Surgery

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PEDIATRIC SURGERY

The Section of Pediatric Surgery at the University of Chicago Comer Children’s Hospital continues to provide comprehensive care for diverse surgical problems in infants and children. These include congenital, neoplastic, infectious and other acquired conditions of the gastrointestinal system, the blood and vascular system, the integument, the diaphragm and thorax (exclusive of heart), the endocrine glands, the genitourinary system, and the head and neck.

The Section continues to be the national and international leader in minimally invasive pediatric surgery and continues to extend its reach to the Western and Northern suburbs. “Chicago Style Surgery” was incorporated into the practice this year and gave the providers an opportunity to provide additional teaching materials for families. This change has enhanced the patient experience.

Section Highlights and Accomplishments

The division had multiple basic and clinical research presentations at several national and international meetings, notably the Society of University Surgeons, Society of Surgical Infection, Society of Microbiology, American Pediatric Surgical Association and Pacific Association of Pediatric Surgeons. At the Society of Surgical Infection, the Section’s paper received the best resident paper award. Drivital publications were in several high profile basic and clinical journals, including: Journal of Trauma, PLoS ONE, Annals of Surgery and Journal of Pediatrics.

The division has become the pediatric surgery provider to several tertiary care Chicagoland hospitals, including: Edward Hospital, Good Samaritan Hospital, Lutheran General Hospital and NorthShore University HealthSystem. The Section also established the nation’s largest MALS program with patients from all over the country and world, and presented initial results at the World Congress of Pediatric Surgery in New Delhi, India.

Donald C. Liu, MD, PhD, was awarded a visiting Chair at Shanghai Children’s Medical Center (SCMC)/Jiao Tong University School of Medicine and was a speaker at the recent opening ceremonies of the University of Chicago Beijing Cultural Center. Dr. Liu, along with David Gould, MD, Chair of Pediatrics, led a delegation to officially develop collaborations between SCMC and UCMC. Subsequently, Dr. Liu, along with Jeffrey B. Matthews, MD, Chairman of the Department of Surgery and Dallas B. Phemister Professor of Surgery, led a delegation to develop official collaborations between the Departments of Surgery at Xinhua Hospital/Jiao Tong University.

Donald C. Liu, MD, PhD, was also named a “Chicago’s Favorite Kids Docs 2011” by Chicago Parent magazine.

Assistant Professors of Surgery
Deborah Loeff, MD
Grace Mak, MD

Faculty Listing

Donald C. Liu, MD, PhD
Section Chief
Mary Campau Byerson
Professor of Surgery and Pediatrics
Section of Plastic and Reconstructive Surgery as a premier Division of Plastic Surgery, has placed The University of Chicago with internationally recognized faculty and the addition of programs in the country and a prestigious one-year fellowship. As Midwest leaders in reconstructive microsurgery, the surgeons are committed to helping patients gain greater insight into their surgical care by encouraging them to ask questions, share diagrams and illustrations, and provide a thorough explanation of terminology, all with the purpose of helping each patient understand their condition and options. Healing begins with greater understanding and patients become partners in their care.

As Midwest leaders in reconstructive microsurgery, the Section offers one of the top Plastic Surgery residency training programs in the country and a prestigious one-year fellowship in complex microsurgical reconstruction. This, coupled with internationally recognized faculty and the addition of a partnership with NorthShore University HealthSystem’s Division of Plastic Surgery, has placed The University of Chicago Section of Plastic and Reconstructive Surgery as a premier program known for innovation, education and clinical excellence.

Section Highlights and Accomplishments

Lawrence J. Gottlieb, MD, is the recipient of the 2011 Illinois Society of Plastic Surgeons’ (ISPS) Physician Recognition Award, which is presented annually to the ISPS member who has demonstrated a lifelong commitment and dedication to teaching residents and students. He was a Senior Examiner at the American Board of Plastic Surgery. He was elected to the By-Laws Committee for the World Society of Reconstructive Microsurgery. Dr. Gottlieb completed the Ethics Fellowship at the University of Chicago MacLean Center for Clinical Medical Ethics. He is on the Editorial Board for The Journal of Reconstructive Microsurgery and Plastic Surgery International. Dr. Gottlieb was a Visiting Professor at Darmouth as well as Hadassah Hospital in Jerusalem, Israel. Dr. Gottlieb was a panel Chairman on General Reconstruction at the World Society for Reconstructive Microsurgery meeting in Helsinki, Finland.

Ginard I. Henry, MD, and Lawrence S. Zachary, MD, conducted two patient educational events for the Scleroderma Foundation discussing Raynaud’s Syndrome and the Cold Hand Clinic, blood flow and bone infections.

Ginard I. Henry, MD, is an Assistant Editor on the American Society of Plastic Surgery’s Plastic Surgery Education Network website.

Raphael C. Lee, MD, ScD, DSc (hon), was elected President of the Drexel 100 Society and is on the Board of Directors for Drexel University. He is on the Board of Directors for the Biomedical Engineering Society and the Advisory Board for the National Science Foundation’s Engineering Research Center, EBICS. He is a major user of the NIH Shared Instrument Grant: Beagle Supercomputer. He was elected President-Elect for the American Institute for Medical and Biological Engineering.

Lawrence S. Zachary, MD, was appointed Director of the Plastic Surgery Foundation Clinical Fellowship in Post-Bariatric Body Contouring. He received a Clinical Fellowship Grant for Post-Bariatric Contouring from the Plastic Surgery Foundation. He is on the Weiss Memorial Hospital Surgical and Infection Control Committees.

Julie E. Park, MD, was Co-Director for the first Annual Chicago Breast Reconstruction Symposium. She promoted Breast Conservation Therapy at the Symposium. She is currently conducting a needs assessment study on sexual dysfunction in women presenting for Breast reconstruction.

Russell R. Reid, MD, PhD, started a new clinic, The Craniofacial Anomalies Multidisciplinary Program (C.A.M.P.), which includes craniofacial surgery, genetics and neurosurgery. The purpose of the clinic is to provide consolidated, comprehensive care to patients with complex, syndromic and nonsyndromic craniofacial issues who, up until now, have received scattered care. He is the Co-Chairman of the Association for Osteosynthesis/Association for the Study of Internal Fixation’s Basic Principles in Cranio-maxillofacial Fixation. He was a lecturer on cleft lip palate at the Advances in Pediatrics 2011 Symposium held at Advocate Lutheran General Hospital. He was the Section Co-Chair of Craniofacial Research for the European Plastic Surgery Research Council in Hamburg, Germany. Dr. Reid was also the Section Co-Chair of Research in Plastic Surgery at the 2010 American Society of Plastic Surgeons meeting in Toronto.

David H. Song, MD, MBA, was elected the Scientific Program Chair for the American Society of Reconstructive Microsurgeons. He was the Course Director for the first Annual Chicago Breast Reconstruction Symposium. Dr. Song is also the Trunk and Lower Extremity Volume Editor of the definitive textbook, Plastic Surgery (Third Edition).

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The Section of Transplantation has surgeons with vast expertise in the areas of kidney, liver and pancreas transplantation, as well as complex surgical procedures involving multi-organ transplants, hepatobiliary and vascular access surgery. The University of Chicago Medical Center is among the select few in the nation that is actively studying the effectiveness of islet transplantation to treat advanced Type 1 diabetes.

The Section of Transplantation continued to advance as one of the first clinics to implement an electronic medical records system in an outpatient setting in addition to consolidating teams into one location to create an ideal, patient-centric experience. The Section continues to incorporate new technologies and efficiencies to improve patient safety and provide quality, individualized care for all patients. Consistent with the practice of “Chicago Style Surgery,” the Section also takes any necessary steps to ensure patients feel educated about their options for transplantation.

Section Highlights and Accomplishments

Hosted three transplant surgeons from Peking Union Medical College Hospital, a prestigious medical institution in China, as part of the ongoing collaboration between the University of Chicago and China to better understand the model of patient management and to further develop the practice and policy of transplantation in China.

Yolanda Becker, MD, and J. Richard Thistlethwaite, Jr., MD, PhD, performed the first six-way SWAP on March 4, 2011. In May 2011, after 19.5 hours on the operating table, one of the Section’s patients became the 10th person in the United States and the fourth at the University of Chicago Medical Center to have a successful heart, liver, and kidney transplant. Valluvan Jeevanandam, MD, transplanted the heart, John Renz, MD, PhD, transplanted the liver, and Yolanda Becker, MD, transplanted the kidney. This was the first-ever liver and kidney transplant performed on an intra-aortic balloon pump. The success of this multi-organ operation was a result of the seamless integration of transplant surgeons, physicians, OR nurses, OR support staff and the anesthesia team.

Received full, unconditional re-accreditation from the Centers of Medicare and Medicaid Services for all solid organ programs after the site survey in the fall of 2010.

Piotr Wirkowski, MD, PhD, presented “Coating of Human Pancreatic Islets with CD4+CD25highCD127− T Regulatory Cells – A Novel Immunosuppressive Approach” at the 131st annual meeting of the American Surgical Association in Boca Raton, Florida.

Anita S. Chong, PhD, received NIH funding in collaboration with Joel Collier, PhD, for “Synthetic protein and peptide assemblies as novel adjuvants and vaccines” and is collaborating on two other NIH-funded projects. She was also Co-chair of the Basic Science Committee of the Transplantation Society, Co-chair of the Basic Science Program Committee of the 2012 International Congress of the Transplantation Society, and a standing member of the NIH Study Section, Transplantation, Tolerance and Tumor Immunity. She also holds three of her own NIH awards.
The team of urologic cancer surgeons at the University of Chicago includes: Scott Eggenger, MD, Arieh Shalhav, MD, Gregory Zagaja, MD, Gary D. Steinberg, MD, and Norm Smith, MD. The Section of Urology at the University of Chicago has four programs of distinction with nationally and internationally acclaimed leaders in their fields. These programs are: urologic cancer; adult robotic and laparoscopic surgery; pediatric robotic surgery (Mohan S. Gundeti, MD, and Dennis Liu, MD); and reconstructive and female urology (Gregory Bales, MD).

The basic science laboratories continue to pioneer research involving the scientific mechanisms of cancer metastasis as well as the molecular events involved in bladder cancer formation and progression, and stem cell research to the scope of urologic research.

Section Highlights and Accomplishments

Ranked among the top 33 Urology programs in the country by U.S. News and World Report (July 2011).

Mohan S. Gundeti, MD, will direct the upcoming pediatric robotic course, "Pediatric Urologic Oncology – Update and Live Case Demonstration" in conjunction with Arieh Shalhav, MD, Gregory Zagaja, MD, and Dennis Liu, MD. This is the second time the course will be offered for pediatric robotic surgery. Additionally, Dr. Gundeti directed the initial course "The Fundamentals & Advances in Pediatric Robotic Urology" at the annual meeting of the American Urological Association in Washington, DC in May 2011. Gregory Zagaja, MD, directed and organized a national annual course for Board review in Urology.

Arish L. Shalhav, MD, was named the American Urological Association Leadership Program Class of 2010-2011. Dennis Liu, MD, was named co-director of the Urology Residency Program. Scott Eggenger, MD, and Otto Ayrskin, MD, completed the clinical trial involving MRI-guided laser ablation of prostate cancer and initiated this treatment for all patients in November 2011. Gary D. Steinberg, MD, is the principal investigator for the National Cancer Institute Cancer Genome Atlas Project for Bladder cancer at The University of Chicago. The University is one of six sites in the United States participating in this high priority study.

Gary D. Steinberg, MD, is the Conference Director for the course entitled "Update and Challenging Cases in Urologic Oncology" scheduled to be held at the Gladecker Center in Chicago on October 29, 2011. The Urologic Oncology and Minimally Invasive Surgery Program continues to train three clinical fellows and one research fellow per year. Gary D. Steinberg, MD, heads the Uro-Oncology Clinical Research Fellowship Program. He is one of the world’s leaders in the treatment of bladder cancer. He is the Chairman of the Scientific Advisory Board of the Bladder Cancer Research Network and Think Tank.

Neem Smith, MD, was chosen for the American Urological Association Leadership Program’s Class of 2010-2011.

Arish L. Shalhav, MD, is one of the world leaders in laparoscopic and robotic surgery. He presented multiple times this past year on state-of-the-art treatment of kidney and prostate cancer, most recently in China at Xin Hua Hospital/Jiao Tung University School of Medicine in Shanghai, China.

Expanded the pediatric urology service and outreach to the Western and Northern suburbs. The Section partners with Edward Hospital, Mt. Sinai, Rush University, and NorthShore University HealthSystem in Evanston, IL.

Carrie Rinker-Schaffer, PhD, is the Vice President of the Marsha Rivkin Center for Ovarian Cancer Research for her innovative studies on cancer cell metastasis.

Donald J. Vander Griend, PhD, has been awarded funding for his research on stem cells and prostate cancer from The Basmam Foundation and the joint University of Chicago/Northwestern United Prostate Cancer Specialized Program of Research Excellence (SPOR). Donald J. Vander Griend, PhD, was a scientific reviewer on the Endocrine (END) peer review panel for the Prostate Cancer Research Program (PCRP) for the Department of Defense’s (DOD) Congressionally Directed Medical Research Programs (CDMRP).

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The Section of Vascular Surgery and Endovascular Therapy is undergoing a tremendous transformation. The Department of Surgery named Christopher L. Skelly, MD, as Section Chief following the departure of Hisham Bassiouney, MD. Dr. Skelly has been on the faculty at the University of Chicago since 2005. He currently holds an NIH-K08 award to study vascular biology, physiology and gene therapy as applied to neointimal hyperplasia. He has made seminal contributions to the field reflected in high impact publications such as the Proceedings of the National Academy of Sciences; the Journal of Vascular Surgery; Gene Therapy and the Journal of Surgical Research.

The short-term strategy of the Section is to rebuild with a long-term goal of developing an internationally recognized academic program. To supplement these goals, the Section expanded its translational research program. The Vascular Surgery Fellowship Program remains vibrant. Current fellows include Samantha Minc, MD, and Michael Shao, MD. In addition to rotations at the University of Chicago Medical Center and Weiss Memorial Hospital, the fellows now rotate at NorthShore University HealthSystem with Nav Gupta, MD; Tina Desai, MD; Nancy Schindler, MD; and John Golan, MD. Plans are underway to develop an integrated 0-5 residency in Vascular Surgery and Endovascular Therapy. All of these efforts will no doubt enhance the patient experience. Committed to “Chicago Style Surgery,” the faculty educates patients about their illness or disease and provides them with all of their options so that they can make the best informed decisions about their surgical treatment and care.

The Section created the University of Chicago Vascular Institute at Weiss Memorial Hospital. The faculty includes Heather Hall, MD, and Matthew J. Blecha, MD; Tina Desai, MD; and John Golan, MD. The Institute offers traditional, open surgery, endovascular treatment options and an ICAVL-accredited, non-invasive vascular laboratory. As part of the Institute, the University of Chicago Vein Center offers state-of-the-art, non-invasive testing and innovative treatment plans, including microphlebectomy, vein injection sclerotherapy, vein stripping ligation and VNUS closure (radiofrequency ablation).

Section Highlights and Accomplishments

Darwin Enn, MD, joined the Section as a Professor of Surgery in December 2010. His clinical practice is weighted to the most complex vascular reconstructions in the chest, abdomen, pelvis and extremities. He performs all-open surgical and minimally invasive catheter-based vascular procedures. He is currently making clinical advances in angiogenesis to promote biological revascularization in patients with critical limb threatening ischemia.

Matthew J. Blecha, MD, joined the Section as a Clinical Associate of Surgery in August 2010. Dr. Blecha has clinical expertise in the care of peripheral vascular disease, including: lower extremity arterial disease, carotid artery occlusive disease, varicose veins and lower extremity venous insufficiency, arterial and peripheral artery aneurysms, deep vein thrombosis, renal artery and mesenteric artery occlusive disease, dialysis access and wound care.

Heather A. Hall, MD, joined the Section as a Clinical Associate of Surgery in August 2011 after finishing her Vascular Surgery Fellowship at the University of Chicago. Dr. Hall has clinical expertise in the full range of vascular diseases, including: lower extremity and upper extremity arterial disease, carotid artery occlusive disease, aneurysms of the aorta and other arteries, mesenteric ischemia and renal artery disease. She performs a wide range of vascular procedures for patients with renal disease, including placement of dialysis catheters and long-term dialysis access. She has a special focus on treatment of venous disease, including: chronic venous insufficiency, varicose veins, spider veins and venous ulcers. She will be spearheading the Section’s teaching mission.

Robert Steppacher, MD, joined the Section as a Clinical Associate of Surgery in September 2011. Dr. Steppacher’s clinical expertise is in the care of peripheral vascular disease, including: lower extremity arterial disease, diabetic foot ulcers, carotid artery occlusive disease, aortic and peripheral artery aneurysms, renal artery and mesenteric artery occlusive disease. He specializes in the treatment of venous disease including the treatment of varicose veins, chronic venous insufficiency, venous ulcers, dialysis access and blood clots. He has a particular interest in outcomes and will be leading the Section’s quality initiative.

The Non-Invasive Vascular Laboratory, under the direction of Laurie Lotzanski, RVT, received continued ICAVL accreditation and has maintained this since 1994. In the past year, the lab performed almost 9,000 studies and has made significant contributions to the financial success of the University of Chicago Medical Center.

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**2011 GRADUATES**

### GENERAL SURGERY

- **Resident/Fellow Name**: Vida Dominato  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Plastic Surgery Fellowship, University of Minnesota, Minneapolis

- **Resident/Fellow Name**: Christopher Kenney  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Transplant Fellowship, University of Wisconsin, Madison

- **Resident/Fellow Name**: James Long  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Cardiothoracic Surgery Fellowship, University of Michigan, Ann Arbor

- **Resident/Fellow Name**: Abhishek Bhandari  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Colon and Rectal Surgery Fellowship, Penn State Milton S. Hershey Medical Center, Lebanon, PA

- **Resident/Fellow Name**: Lisa Spiegel  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Breast Oncology Fellowship, Northwestern University, Chicago, IL

- **Resident/Fellow Name**: Allison Miller  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Cataract & Retinal Surgery Fellowship, New York, NY

- **Resident/Fellow Name**: Emily Bellavance  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Assistant Professor of Surgery, University of Maryland Medical Center, Baltimore, MD

### NEUROSURGERY

- **Resident/Fellow Name**: Joseph Howie  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Spine Surgery, Cedar Sinai Medical Center, Los Angeles, CA

### OPTHALMOLOGY AND VISUAL SCIENCE

- **Resident/Fellow Name**: Giscombe Moeja  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Cornea Fellowship, University of Minnesota, Minneapolis

- **Resident/Fellow Name**: Reveille Moini  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Ophthalmology, The University of Chicago

- **Resident/Fellow Name**: Ajay Singh  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Fellowship in Retina and Vitreous Diseases, University of California, Los Angeles

- **Resident/Fellow Name**: Peter John Chedid  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Associate Professor, Retina Group Chicago, Hinsdale, IL

### ORTHOPAEDIC SURGERY AND REHABILITATION MEDICINE

- **Resident/Fellow Name**: Michael Angelakis  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Sports Medicine and Shoulder Fellowship, Hospital for Special Surgery, New York, NY

- **Resident/Fellow Name**: Waqar Haider  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Sports Medicine Fellowship, Cleveland Clinic, OH

- **Resident/Fellow Name**: Alvaro Roberto de Valle Angual  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Musculoskeletal Oncology Fellowship, The University of Chicago

- **Resident/Fellow Name**: Robert Satterfield  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Trauma Fellowship, University of California, Davis

### SURGERY ONCOLOGY

- **Resident/Fellow Name**: Sachin Bedikian  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Weiss Memorial Hospital, Chicago, Illinois

### TUMOR SURGERY AND HEAD AND NECK SURGERY

- **Resident/Fellow Name**: Larry Vanderspank  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Fellowship, Nebraska

- **Resident/Fellow Name**: Hussein Tarki  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Attending Physician, Alabama Orthopaedic Specialists, Montgomery, AL

- **Resident/Fellow Name**: Moushira Elhoseiny  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Attending Physician, University of Connecticut, Farmington, CT

- **Resident/Fellow Name**: Alexander Montague  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Attending Physician, Mayo Regional Hospital, Mankato, MN

### OTOLARYNGOLOGY-HEAD AND NECK SURGERY

- **Resident/Fellow Name**: Daniel Brown  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Private Practice, Bethesda ENT Associates, Bethesda, PA

### PLASTIC AND RECONSTRUCTIVE SURGERY

- **Resident/Fellow Name**: Aaron Pollack  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Reconstructive Breast/Micrurosurgery Fellowship, The University of Chicago

- **Resident/Fellow Name**: Michelle Richaud  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Joint Dr. Louis Schickel’s Practice, Munster, IN

### MICROINTERVENTION

- **Resident/Fellow Name**: Daniel Kunz  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Stanford Clinic Surgical Associates, Sunnyvale, CA

### TRANSPANTATION AND IMPLANTATION

- **Resident/Fellow Name**: Reynold Lopez-Soler  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Sierra Virginia Burn's General Hospital Transplant Center, Virginia Beach, VA

### UROLOGY

- **Resident/Fellow Name**: Michael LeGarde  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Fellowship, The University of Chicago

- **Resident/Fellow Name**: Mark Wilkes  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Faculty, John H. Stroger Jr. Hospital of Cook County, Chicago, IL

- **Resident/Fellow Name**: Michelle Gutierrez  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Colorectal Surgery, University of Illinois, Chicago, IL

- **Resident/Fellow Name**: Gagan Gattam  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Sr. Consultant & Head of Urology & Robotic Surgery, Mohan’s - The Multifill, India

### VASCULAR SURGERY

- **Resident/Fellow Name**: Sagar Shaikh  
  **Year**: Graduate  
  **Position After Leaving UC Program**: University of New Mexico, Albuquerque, NM

### VASCULAR SURGERY AND ENDOVASCULAR THERAPY

- **Resident/Fellow Name**: Hunter Hall  
  **Year**: Graduate  
  **Position After Leaving UC Program**: Clinical Associate of Surgery, The University of Chicago

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**CARDIAC & THORACIC SURGERY**

### ABSTRACTS

**Mark K. Ferguson, MD**

**Improving Outcomes in the Treatment of Pulmonary Hypertension Using the Transcatheter Pulmonary Valve Implantation Device**

**Abhinav S. Cherksh, MD, PhD**

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Jeffrey B. Matthews, MD
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