Spotlight on: Robert L. Walton, MD,  
Professor of Plastic Surgery

Northwestern University Feinberg School of Medicine warmly welcomes to its ranks Dr. Robert Walton, Professor of Surgery. Dr. Walton is the newest member of the Division of Plastic Surgery.

As a clinical investigator, plastic surgeon and previous training program director, Dr. Walton is poised to contribute great things to the rich tradition of laboratory and clinical research in the Division of Plastic Surgery. The division is well known for its dedication to cutting-edge cosmetic and reconstructive surgery. Dr. Walton, a nationally renowned microvascular surgeon, is a complimentary addition to this tradition of innovation.

Northwestern’s superb reputation and training program drew Dr. Walton to the Feinberg School of Medicine, he says. Here, he will work with Dr. Michael M. Abecassis, Chief of the Division of Organ Transplantation, in order to collaborate on one of his main objectives: the development of a composite tissue allotransplantation program. Such a program would further develop sophisticated techniques for facial, nasal and breast reconstructions, which would address the needs of patients with devastating deformities.

Dr. Walton conducted 15 years of comparable research and clinical work in reconstructive and aesthetic surgery as a director of plastic surgery programs at the University of Chicago and the University of Massachusetts.

Allotransplantation, explains Dr. Walton, is the process by which tissue from donors is transplanted to patients who have deformities. Deformities might include the loss of face, limbs such as the hand, or loss of the abdominal wall, for example. The procedure is performed through microsurgery, the use of operating microscopes and miniaturized precision instruments to perform intricate procedures on very small structures.

“Allotransplantation allows us in one stage to perform complex reconstructive surgery that nearly perfectly matches the reconstructive needs of the deformity,” he says.

Facial allotransplantation is an area Dr. Walton has researched extensively. Only four surgeries of this kind have been attempted in the world, on patients who have partially lost their face due to trauma. Doctors in Cleveland, Ohio performed the first such near-total face transplant in the United States in 2008.

Dr. Robert Walton,  
the newest member of the Division of Plastic Surgery at Northwestern University Feinberg School of Medicine

At a glance

- Received medical degree from the University of Kansas in 1972
- Graduated from medical school with honors and a member of Alpha Omega Alpha medical society
- Surgery and plastic surgery training at Johns Hopkins Hospital and Yale-New Haven Hospital
- Past director of two prestigious academic programs at the University of Massachusetts and the University of Chicago
- Recent awards from the American Association of Plastic Surgeons include the Peter J. Rubin Award for Best Scientific Paper (2005) and the James Barrett Brown Award for Best Scientific Publication (2007)
- Past president of the American Society for Reconstructive Microsurgery, and has held leadership positions the American Society of Plastic Surgeons, The American College of Surgeons and the Chicago Society of Plastic Surgeons
- Research interests are in Tissue Allotransplantation and Tissue Engineering
- Clinical interests are Facial Aesthetic and Reconstructive Surgery and Breast Surgery
- Plastic Surgery Educational Foundation Visiting Professor

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Message From the Chair:

Having survived a brutal early winter season in Chicago, I am pleased to share with you the semiannual report of the Northwestern University Department of Surgery. This report highlights many of our accomplishments and provides a glimpse of our ongoing drive to fulfill our vision—“Safer surgery today, better surgery tomorrow.” We have positioned ourselves as leaders and innovators in surgery and constantly strive to differentiate our approach to our chief academic missions: clinical care, surgical education and research. I will touch on just a few of the exciting developments occurring during the past six months.

Several faculty members received singular honors: Dr. William Pearce received the faculty mentor of the year award from the Feinberg School of Medicine (FSOM) and the Martin Luther King humanitarian award from Northwestern Memorial Hospital (NMH); Dr. Jon Matsumura was named President-Elect of the Midwest Vascular Society; Dr. David Mahvi was named President-Elect of the Society of Surgery of the Alimentary Tract; Dr. Melina Kibbe received the Distinguished Fellow award from the Society of Vascular Surgery and the Pioneer Award from the FSOM Institute for Women’s Health Research.

Faculty and staff from the divisions of gastrointestinal, oncologic, endocrine, trauma/critical care, vascular and thoracic surgery moved from Galter-10 to a new office suite located across the street in the ‘676’ Building, recently connected by a pedestrian bridge across St. Clair Street. Included in the footprint is a large videoconference center equipped with cutting-edge HD technology supplied in part by a generous donation from the Sony Corporation. This multimedia-enabled room, our new home for most major departmental meetings, will allow videoconferencing from the operating rooms and the skills lab, as well as broadcasting via the web to distant sites. A grand opening ceremony and open house will showcase this space on March 3rd, 2009.

Several existing clinical programs have been expanded and new programs been developed to better serve our patients. These include re-accreditation of the bariatric surgery program by the SRC as a Center of Excellence, while linking the program to the new NU Center for Obesity. A new multi-departmental program for Women’s Pelvic Health has been developed with participation by colorectal surgery, urogynecology and urology to improve the lives of women in the region. The divisions of vascular and plastic surgery developed a Diabetic Limb Salvage Clinic to manage complex lower extremity problems. Surgeons from the Division of Cardiac Surgery are spearheading an investigational trial into the percutaneous placement of heart valves. A cooperative effort between surgery and gastroenterology has made NMH the only hospital in the U.S.A. to perform both trans-gastric and trans-vaginal cholecystectomy, and thus be the premiere clinical site for NOTES (natural orifice transluminal endoscopic surgery) in the country. We are also among the early adopters of single-incision laparoscopy, endolumenal antireflux procedures and laparoscopic placement of diaphragmatic pacing devices, thereby improving the lives of patients with spinal cord injury and ALS by weaning them from mechanical ventilators. Finally, with the recruitment of Dr. Robert Walton in the Division of Plastic Surgery, we are preparing to initiate a program in composite tissue allografting (see spotlight article). Clearly, the Northwestern University Department of Surgery is offering innovative and cutting edge clinical programs!

The Division of Pediatric Surgery has expanded markedly over the past 18 months. Most of the new faculty members have expertise in minimally invasive surgery, and Dr. Katherine Barsness recently hosted a national course for laparoscopic surgery for all pediatric surgery fellows in the U.S. Coincidentally, foundation work has begun on the new Ann and Robert H. Lurie Children’s Hospital of Chicago, due to open in 2011 adjacent to the Prentice Women’s Hospital. The physical plant of the medical center will be even more impressive, and the physical proximity will allow enhanced collaboration between the adult and pediatric surgeons in the department.

Led by Debra DaRosa, PhD., Vice-Chair of Education, the educational programs in the department continue to be outstanding and innovative. This year, more than 900 medical students applied to our residency program. At any one time, eight residents are spending two years in the laboratory. Our residency was one of the first to adopt the ACS/APDS National Skills Curriculum and perform verification of proficiency examinations to enhance our residents’ skills and thereby improve patient safety. We were selected as one of only 30 programs nationally to be a Beta test site for the Web site housing the national patient care cognitive curriculum for surgical residents. Due to the disaffiliation of ENH from the Northwestern McGaw educational

See CHIEF continued on Page 3
 axis, we recently affiliated with MacNeal Hospital in Berwyn, where a team of residents will be based as of July 1, 2009.

Research efforts in the department continue to expand. Over the past three years, federal research costs have doubled among our faculty members. Surgery faculty received four of the Priority Clinical Programs Collaborative Development Initiatives grants from NU/NMH. Two T-32 grants have been funded to support research fellows in Transplant and Vascular surgery, and a third grant is being prepared. All of this activity has occurred against the backdrop of diminished federal research funds nationally, truly great accomplishments.

The Department of Surgery continues to be a major contributor to the more global initiatives of our partner institutions of Northwestern University, the Feinberg School of Medicine, Northwestern Medical Faculty Foundation and Northwestern Memorial Hospital. The first year of the NUvention program, an innovation course jointly supported by the schools of medicine, law, management and bioengineering, was a resounding success. Co-directed by Dr. Patrick McCarthy, 11 provisional patents and two licensing agreements came out of the initial offering. The second year’s course is well underway, with many project teams led by faculty in the department, thereby contributing to our ongoing quest to further surgical innovation.

All of the entities at Northwestern have contributed to the planning process for an ambitious initiative, to create a truly Great Academic Medical Center at Northwestern. Many surgical faculty were involved in the recently completed planning phase, and the process for determining resource allocation is underway. We strive to be both a top 10 medical school and a top 10 hospital by 2020—‘Top 10 by 2020’. Given our strong partners, we feel that these goals are audacious but obtainable. Because of the strength, depth and breadth of our faculty and staff, the Department of Surgery will be fully engaged in this quest.

We look forward to ongoing achievements and distinctions in our academic efforts, robust educational programs for training the next generation of surgical leaders, and, above all, the best care for our patients.

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December 2008. A colleague from the University of Chicago and a resident Dr. Walton trained assisted in the surgery, a 22-hour operation during which eight specialists transplanted muscle, blood vessels and nerves from the face of a dead female donor to the patient. Doctors told the press the woman was disfigured to the point where she could not eat or breathe on her own.

The first of this type of surgery took place in France in 2003, by a woman mauled by her dog; operations have since been carried out in China on a farmer mauled by a bear as he was protecting his sheep and again in France on a man disfigured by a genetic condition.

In his positions at the University of Chicago and the University of Massachusetts, Dr. Walton also developed novel techniques in microsurgical nasal reconstruction. These techniques offer a shot at normality for patients born without noses, or who have lost their nose due to cancer or trauma.

“We’ve developed techniques that are the benchmark for total and sub-total nasal deformities,” Dr. Walton says.

He won the prestigious James Barrett Brown Award for Best Scientific Publication in 2007 for an article he published on microsurgical nasal reconstruction in conjunction with a University of Chicago colleague, Dr. Gary Burget.

Reconstructive microsurgical breast surgery is another area of expertise Dr. Walton will continue to develop at the Feinberg School of Medicine. Over the past 20 years, he has been a pioneer in developing and promoting microsurgical techniques, utilizing lower abdominal and buttock tissue for breast reconstruction. The use of muscle sparing tissue preserves function and avoids significant donor deformity, he says.

Outside of academia, Dr. Walton relaxes by flying airplanes. He was 10 when he had his first flying lesson in the small Kansas town where he grew up. As a child there, he also built and flew model airplanes, experiences that likely influenced the eventual development of his technical dexterity and reconstructive interests.

Since 1985, Dr. Walton has traveled to San Jorge Children’s Hospital in Puerto Rico three times a year to perform reconstructive surgeries. In 1992, he founded PROYECTO MIRA, affiliated with the children’s hospital. Mira, the Spanish word for look, is also an acronym in Spanish detailing the aim of the foundation. Its translation: A thousand faces reconstructed with love.

Juliana Keeping, Program Coordinator for the Department of Surgery, can be reached at jkeeping@nmh.org.
Research Update

2008 a record-setting year for research grants

After a significant increase in federal funding, Northwestern received research grants totaling more than $438 million in 2008, the highest in the University's history and a 5 percent increase over the record-breaking $416 million in 2007.

The Feinberg School of Medicine received $268.7 million, accounting for more than 61 percent of the University's total. Feinberg's awards represented a 14 percent increase over 2007, following a 17 percent increase in 2006. The majority of the research support came from the National Institutes of Health.

The Department of Surgery also had a highly productive year. Seventy-five new proposals were submitted through the Department Of Surgery: 27 federal proposals and 48 non-federal grants and contracts.

For detailed information, please see pages 14-16

Surgical Education Update

Clerkship update

Dr. Julia Corcoran has recently accepted the position of Clerkship Director effective January 1, 2009. She previously served as the Associate Clerkship Director since March 2003. Dr. Corcoran completed her Masters in Health Professions Education from the University of Illinois (Chicago) in 2008.

Ms. Susan Santacaterina will assume the role of Associate Clerkship Director. Ms. Santacaterina also completed her Masters in Health Professions Education from UIC. Her start date will occur within the next several months and will be determined based on transitional requirements.

Dr. Nancy Schindler has served as the Clerkship Director since October 1, 2003. She will remain with the clerkship leadership team as the Associate Clerkship Director until the end of the academic year or until a sound leadership “hand off” has been accomplished.

We would like to take this opportunity to thank Dr. Nancy Schindler for her dedication and excellent work as our Clerkship Director. Dr. Schindler made numerous contributions to our clerkship including the development of new clerkship learning objectives, electronic instructional modules, and remedial strategies for students with difficulties. Her contributions have helped distinguish our clerkship at the local and national levels.

Oh the places you’ll go....

The 2008 general surgery graduates have pursued fellowships at the following institutions:

- Bill Chiu, MD; Pediatric Surgery Fellowship. Children's Hospital of Philadelphia
- Julie McGill, MD; Endocrine Surgery Fellowship. Columbia University
- Alicia Growney, MD; Breast Surgery Fellowship. University of Michigan
- Darius Hollings, MD; Cardiothoracic Surgery Fellowship. RUSH University
- Saurabh Khandelwal, MD; Minimally Invasive Surgery Fellowship. University of Washington

Surgical Education Update continued on page 5
Residency update

The General Surgery Residency Program has just concluded the recruitment interviews for the 2009 – 2010 academic year. Over 900 applications were received for the categorical residency program. From these, approximately 90 applicants were interviewed for five available categorical positions. Interviews were held on November 21, 2008, December 6, 2008 and January 10, 2009. The applicants were quite outstanding candidates from all over the country, so we anticipate a very successful match for 2009! Our thanks to the faculty who participated in this critical interview and candidate review process.

The annual “Excellence in Teaching Awards” were presented in conjunction with Education Grand Rounds on Tuesday, October 21, 2008. Awards are given to faculty members who meet the levels of established teaching criteria and fully participate in the medical student and/or residency programs.

The winners for the 2007-2008 academic year include:

**First Year Winners:** Victor Lewis, MD and Nabil Issa, MD

**Second Year Winners:** Gary An, MD; Cord Sturgeon, MD; and Michael Verta, MD

**Third Year Winners:** Melina Kibbe, MD; Kyle Mueller, MD; Alexander Nagle, MD; and Marleta Reynolds, MD

**Fourth Year Winners:** Matthew Blum, MD

**Fifth Year Winners:** Emilio Barrera, MD; Jay Prystowsky, MD; Nancy Schindler, MD; Nathaniel Soper, MD; and Mark Toyama, MD

Dr. Stephen Evans, Professor and Chair of the Department of Surgery at Georgetown University Medical Center, was the keynote speaker and presented “Due Process and the Failing Trainee.” Following Grand Rounds, a celebratory dinner in honor of the award winners was held at Quattro's.

N-CASE is excited to announce the implementation of a longitudinal formal skills curriculum designed for first year surgery residents. The curriculum was adapted from the National Technical Skills Curriculum published by the American College of Surgeons. This initiative has been led by Drs. Eric Hungness, Director of the Surgical Skills Curriculum, Debra DaRosa, and Jonathan Fryer.

The curriculum is comprised of 13 modules, some of which were sent to newly matched residents for practice prior to their arrival. A progress practical exam was given on these modules during the new PGY1’s orientation. The remaining curriculum modules were practiced weekly by the first year residents from July 1st through mid-November. Each skills module was led by a module leader who was then accompanied by two additional faculty members instructors.

This year’s module leaders and instructors included:

- **Module leaders:**
  - Dr. Dina Elaraj
  - Dr. Alex Nagle
  - Dr. Amy Halverson
  - Dr. Eric Hungness
  - Dr. Jeff Wayne
  - Dr. Marie Crandall
  - Dr. Nabil Issa
  - Dr. Alberto de Hoyos
  - Dr. Melina Kibbe
  - Dr. Heron Rodriguez
  - Dr. Wilson Hartz, III
  - Dr. Nora Hansen
  - Ms. Susan Santacaterina

- **Instructors:**
  - Dr. Gary An
  - Dr. Glen Balch
  - Dr. David Bentrem
  - Dr. Matthew Blum
  - Dr. Marie Crandall
  - Dr. Alberto de Hoyos
  - Dr. Jonathan Fryer
  - Dr. Robert Galiano
  - Dr. Melissa Hulvat
  - Dr. Eric Hungness
  - Dr. John Martin
  - Dr. Carla Pugh
  - Dr. Nancy Schindler
  - Dr. Michael Shapiro
  - Dr. Anton Skaro
  - Dr. Cord Sturgeon
  - Dr. Nancy Taft
  - Dr. Mark Toyama
  - Dr. Gerald Ujiki
  - Dr. Richard Vasquez

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**Surgical Education Update continued on page 6**
Module leaders attended a short faculty development program that described the curriculum, their role in it, and how to effectively teach psychomotor skills. They then established learning objectives for their module and determined instructional models and methods. Dr. Eric Hungness served as the Director of the Skills Curriculum, Deb Rooney acted as coordinator, and David Irvin provided the technical support.

A Verification of Proficiency Exam (VOP) was administered on November 13, 2008 to all first year residents testing their abilities on the skills addressed in the new curriculum. Faculty directly observed and scored the residents noting which had adequately acquired the skills and which required additional practice and feedback. We applaud the residents for their hard work and appreciate the many faculty members who administered the new curriculum.

This October marked the 10th anniversary of the annual Lynn Sage Breast Cancer Symposium held here in Chicago. Highlights included the Symposium Faculty reception and the reception for the investiture of Seema A. Khan, MD as the Bluhm Family Professor of Cancer Research. Dr. Khan is the Director of the Bluhm Family Breast Cancer Early Detection and Prevention Program at Northwestern Memorial Hospital and acted as co-leader of the Breast Cancer Program at the Robert H. Lurie Cancer Center of Northwestern University in 2006. In 2008, she was named Bluhm Family Professor of Cancer Research.

Dr. Jacqueline Jeruss has received the Fiscal Year 2009 Dixon Translational Research Grant Initiative for her research submission entitled "Cyclin Mediated Inhibition of Smad 3 Tumor Suppression in Breast Cancer." The Northwestern Memorial Foundation funded the proposal in this round and will provide a one year grant of $25,000. The Dixon Translational Research Council felt she had a precisely defined process and well presented rationale.

Rachel Novak, who formerly worked in the Division of GI/Oncologic Surgery, has moved to the Lynn Sage Breast Center as Dr. Jeruss’ Administrative Assistant.

During the month of January, Drs. Melissa Hulvat and Nancy Taft (The Lynn Sage Breast Fellows) along with Kay Pearson, RN, participated in a three-part “Wellness Wednesdays for Women” lecture series. The series was sponsored by the NMH Health Learning Centers at the Prentice Women’s Hospital.

Leondra Howard, RN and Lidia Andruszyn, ANP have recently joined the Lynn Sage Breast Center staff. Leondra is now the acting nurse for Dr. Kevin Bethke, MD and Lidia is the acting Patient Liaison between mammography and surgery.

Cardiothoracic Surgery has enjoyed much success this past fall and winter.

Dr. Patrick McCarthy (PI) and Chris Malaisrie (Co-I) are participating in the Edwards Lifesciences PARTNER Trial (Placement of Aortic Transcatheter Valve) for patients with severe aortic stenosis who are either inoperable or at very high risk for conventional aortic valve replacement.

Dr. Edwin McGee (PI) is participating in the Evaluation of the VentraAssist™ Left Ventricular Assist Device as a Bridge to Cardiac Transplantation. He is evaluating a new heart assist device as a treatment for end stage heart failure patients who require circulatory assistance while waiting for a heart transplant.

Dr. Richard Lee (PI) is participating in the Medtronic Concomitant Utilization of Radio Frequency Energy for Atrial Fibrillation (CURE-AF) Study to evaluate the safety and effectiveness of the Cardioblate Surgical Ablation System for treatment of permanent atrial fibrillation.

Education

Dr. Patrick McCarthy, along with Dr. Richard Lee, directed the course entitled “Atrial Fibrillation Surgical Ablation: Concomitant and Stand-Alone: Why, How and Results” at the Society of Thoracic Surgeons (STS) University in January 2009.

Dr. Edwin McGee directed the course entitled “Mechanical Circulatory Support for Cardiogenic Shock – Adult” at STS University in January 2009.

The 19th Arthur DeBoer, MD Lectureship took place on October 2nd.
Cardiothoracic Update continued...

2008. Dr. Duke E. Cameron, Co-Director of the Dana and Albert “Cubby” Broccoli Center for Aortic Diseases, Johns Hopkins Hospital, presented “Evolution of Aortic Surgery for Marfan Syndrome.”

The 4th Annual Heart Failure Holiday Symposium took place at Northwestern Memorial Hospital on December 5-6, 2008.

The Bluhm Cardiovascular Institute (BCVI) launched a physician shadowing program for Northwestern University undergraduate students, co-directed by Dr. Richard Lee, Michael Yensel, and Susan Fox. Students have the opportunity to shadow a physician in 19 different disciplines.

Clinical Care

The BCVI has been ranked 19th in the nation and highest in Illinois among thousands of heart and heart surgery programs evaluated for the 2008 edition of U.S. News & World Report’s “America’s Best Hospitals”.

GI/Oncologic Surgery Update

The division of Gastrointestinal and Oncologic Surgery is comprised of endocrine, hepatobiliary, melanoma/soft tissue tumor, minimally invasive, bariatric and gastrointestinal surgery. Rather than offer broad strokes of the division research/education program, this issue will highlight the outcomes group and the simulation group within GI/Oncologic surgery.

Research and Education

There are some procedures (such as pancreatectomy and esophagectomy) for less common tumors of the alimentary tract that are performed with relatively low frequency and are associated with higher morbidity and mortality. For high-risk cancer procedures, it has been established that patients undergoing procedures at low-volume hospitals have higher risks of complications and perioperative mortality than those at high-volume centers. This will not only affect perioperative outcome but may also affect utilization of surgical and non-surgical treatment.

Dr. David Bentrem recently received a VA career development award which will evaluate utilization and quality of high risk surgical procedures in both VA and non-VA patients. It is his hypothesis that cancer care in the US is uneven and that this variation impacts patient outcome.

Dr. Carla Pugh has developed modular programs for the Feinberg School of Medicine that simulate breast, pelvic and prostate exams. Her modular tools allow for the assessment of competence in clinical skills and ultimately will allow a student (or a surgeon) to only progress to patient care when they have demonstrated clinical competence. Her innovative research has generated invitations for presentations both at national surgical meetings and with local politicians such as Mayor Richard M. Daley.

Clinical Care

The Division of Gastrointestinal and Oncologic Surgery would like to welcome Dr. Anne-Marie Boller. Dr. Boller joined the division after completion of a colorectal fellowship at the Mayo clinic and a pelvic floor fellowship at the University of Minnesota. She is focused on the development of a new pelvic floor program in conjunction with Uro-Gynecology and Urology. The new space for this program plans to open its doors in May 2009.

N-CASE Update

Education

We are excited to announce the incorporation of the National Skills Curriculum developed by the American College of Surgeons and American Program Directors of Surgery. This initiative has been led by Drs. Eric Hungness, Director of the Surgical Skills Curriculum, Debra DaRosa, and Jonathan Fryer. The new curriculum offers our residents an augmented skills experience in a laboratory setting that will be further expanded over the next several years. N-CASE is fully prepared and committed to implementing additional modules as they are developed by the ACS. The success of the new surgery resident training initiative demonstrates faculty’s strong dedication to outstanding training and assessment practices. We would like to thank all the faculty for their participation and support of this important endeavor.

Research

Education initiatives in N-CASE are based on solid theories in educational research. Current research initiatives include the development and evaluation of a sound process for creating simulation-based educational modules that focus on assessing intraoperative decision making. Drs. Pugh and DaRosa are currently evaluating faculty reaction to the newly developed modules and are now in the planning and implementation phase of this exciting project. This work is sponsored by a grant from the U.S. Department of Defense. In addition to research in surgical education, N-CASE faculty has helped to further advances in minimally invasive surgical techniques and approaches. Drs. Nathaniel Soper, Eric Hungness and John Martin are leading this effort, which recently was funded by a NOSCAR grant. Dr. Eric Hungness is the PI and his research goal is to identify potential physiologic and clinical benefits of NOTES procedures.
Plastic Surgery Update

The Division of Plastic Surgery is making adjustments to the loss of ENH as a rotation for our PGY4 residents for six months. We are excited about adding a new faculty member, Robert Walton, MD on January 1, 2009. Dr. Walton has previously acted as Professor and Chief of Plastic Surgery at the University of Massachusetts and the University of Chicago. For the past three years he has been in private practice in Chicago. He is one of the best known microvascular surgeons in the USA, having pioneered techniques particularly in the area of total nasal reconstruction. He has also published widely on a variety of surgical techniques, including breast reconstruction.

Research

Dr. Robert Galiano has embarked on several funded clinical studies and recently hired a study coordinator. In the Wound Healing laboratory, headed by Drs. Mustoe and Galiano, we have a new collaboration with Kai Leung, PhD from Great Lakes Naval Station. The division has also received new funding to study biofilm. Other work includes that with AFIRM (Armed Forces Institute for Regenerative Medicine) on examining new anti-scarring therapies, including stem cells. We also continue our work with collaborators from UIC (Lu DiPietro and Phil Marucha) on a P20 grant looking at scarring. We also gained new industry support for new wound healing therapeutics, and continue to evolve animal models for ischemia reperfusion.

Education

Under the leadership of our Program Director, Dr. Greg Dumanian, we are making adjustments in rotations. Although this has been necessitated by the loss of ENH, we are looking at the change as an opportunity to add a VA rotation to the schedule and to look for other experiences that will diversify the NMH rotation schedule. Our resident interviews are going well and indicate a continued strong interest in our program from the top applicants. We are pleased that Dr. Julia Corcoran, a plastic surgeon at Children’s is directing the ENH as a rotation for our PGY4 residents.

Although the change in the economy has affected the medical field, particularly for elective surgery, we have been gratified by the minimal change in our clinical volume at NMH. As discussed above, Dr. Walton will be a strong addition to our group, providing additional expertise during these hard economic times. The diabetic limb salvage clinic, in conjunction with vascular surgery, is a major focus of Dr. Galiano from plastic surgery. We are proud to say that this program is continuing to grow and pick up organizational steam.

Trauma and Critical Care Update

The division continues to provide care for injured and critically ill patients and those with urgent or emergent general surgery conditions. Dr. Michael Shapiro has assumed the Interim Division Chief position.

Research

Division faculty are active in a wide variety of research arenas. Dr. Marie Crandall’s investigation of behavioral patterns and the effect of intervention on recidivism in trauma is funded by the Robert Wood Johnson Foundation. Dr. Gary An’s program of mathematical modeling of simulations of inflammation and pathophysiologic processes is funded by the National Science Foundation. Dr. Michael Shapiro remains active in the NIGMS glue grant program examining inflammation and host responses. Numerous publications have resulted, and the faculty serve as frequent presenters at national and international meetings. Drs. Crandall and An serve on the University IRB.

Education

Drs. An and Issa were awarded for excellence in teaching by the Department of Surgery, and Dr. Shapiro was awarded for outstanding teaching by the Medical School. The division’s Trauma conference is scheduled to resume in early 2009. Preparations continue for the RRC-approved Surgical Critical Care fellowship; both fellowship positions for 2009 have been filled. Dr. Crandall continues to teach in the School of Public Health at Northwestern University.

Clinical Care

The mainstay of our effort remains a focus on providing state-of-the-art care to patients who are injured, critically ill or have other emergent surgical needs. Trauma numbers continue to grow, with a high percentage of penetrating injury. The division maintains a consistent approach to care that is patient-centered and evidence-based. A constant analysis of practice and outcomes insures the application of best-practice models. Dr. Issa continues his efforts in ICU updating practices to ensure consistent patient management across a diverse set of patient populations.
The Division of Vascular Surgery received a $1.1 million Priority Programs Collaborative Development Initiative grant from Northwestern Memorial Hospital. The Division of Vascular Surgery’s will use this funding to develop a “Center for Limb Preservation” that will bring together individuals who have basic and clinical research interest and expertise in peripheral arterial disease (PAD) to create novel treatments and prevention programs to reduce the rate of complications due to PAD (arterial occlusion of the legs). The Center for Limb Preservation will include basic science research to develop new treatments for PAD, a clinic to treat problems caused by PAD before they become limb- or life-threatening using both traditional and innovative treatments, and a community awareness and education program to promote awareness of this disease in both patients and health care providers.

On September 12, 2008, William H. Pearce, MD, received the 2008 Faculty Mentor of the Year Award from the Medical Faculty Senate Council of Northwestern University Feinberg School of Medicine. This award recognizes faculty who have demonstrated commitment to fostering the professional growth and development of their junior faculty colleagues. Dr. Pearce exemplifies this commitment, having mentored vascular trainees (more than 40 fellows, residents, and medical students) as well as junior faculty members. The nomination and support for this award was by his mentees, many of whom cited his emphasis on developing a well-rounded life in addition to clinical and scientific expertise.

Drs. Jon S. Matsumura and Mark K. Eskandari presented three live broadcasts from Northwestern’s Center for Vascular Disease to the 2008 Transcatheter Cardiovascular Therapeutics (TCT) conference held in Washington, D.C. October 12-17, 2008. The broadcasts demonstrated the latest percutaneous techniques for endovascular aortic aneurysm repair to approximately 10,000 cardiovascular specialists from around the world. Transcatheter or endovascular treatments are surgical procedures that use a catheter that is passed through a small puncture in the skin to insert small stents in the blood vessel to treat vascular disease. These minimally invasive procedures result in less pain, less blood loss and shorter recovery times. Northwestern Memorial Hospital is one of the leading hospitals in the world in endovascular procedures and often provides training to other physicians in the use of these procedures.

The 34th annual Northwestern vascular symposium (Techniques and Outcomes in Endovascular Surgery, Chicago, IL, December 11-13, 2008) honored Dr. Robert Rutherford, Distinguished and Emeritus Professor of Surgery at the University of Colorado. Dr. Rutherford is an internationally recognized figure, the author of one of the major textbooks in vascular surgery, and the former editor of the Journal of Vascular Surgery. The symposium focused on endovascular techniques and outcomes and had two-hundred-twelve registered attendees, representing the United States, Canada, Ireland, India, Korea and Germany.

International Visitors

- Fatemeh Malekpour, a fellow in vascular surgery and trauma at Shonhada Medical Center in Tehran, Iran, visited in October. To her right is Dr. James Yao.

New Hospital Privileges

Drs. Pearce and Eskandari Lake Forest Hospital Lake Forest, IL
Children’s Memorial Hospital Update

Research

Dr. Carl Backer of Cardiovascular-Thoracic Surgery recently published articles describing the division’s participation in multi-center studies of the anti-hypertensive effects of the drug esmolol in patients undergoing repair of coarctation. He continues clinical research of arrhythmia surgery in patients with and without congenital heart defects, and late reoperations in patients who have undergone a Fontan procedure.

Dr. Sunjay Kaushal of Cardiovascular-Thoracic Surgery is the recipient of a $200,000 two-year grant from the Children’s Heart Foundation for his study “Cell-Based Therapy for Congenital Cardiomyopathy Using Endogenous Cardiac Stem Cells.” The project will be an important first step in determining whether cardiac stem cells can reduce pediatric heart failure and improve life expectancy.

Dr. Mary Beth Madonna of Pediatric Surgery continues research of drug-resistance and response to growth factors in neuroblastoma.

Education


Clinical Care

Dr. Carl Backer has been appointed Division Head of Cardiovascular-Thoracic Surgery. Since 2001 Dr. Backer has been Professor of Surgery at the Feinberg School of Medicine and the A.C. Buehler Professor of Surgery. He is also the Surgical Director of the Heart Transplant Program at Children’s Memorial Hospital.

Evanston Hospital Update

Under the leadership of Dr. Mark Talamonti, the department of surgery at NorthShore University HealthSystem continues to expand, extending its care from Lake to Cook County. With the recent merger with the former Rush North Shore Hospital, now Skokie Hospital, the four hospital system has increased the demand for surgical services, as well as educational and research opportunities in General Surgery, Surgical Oncology, Otolaryngology, Ophthalmology, Neurosurgery, Plastics, Pediatrics, Urology, Cardiac, Thoracic, and Vascular surgery.

To address the growing need for reconstructive and plastic surgery, the department has recruited a new chief for the division, Dr. Karol Gutowski, relocating from the University of Wisconsin Madison where he served as an associate professor of surgery and the residency program director for plastic surgery.

The division of General Surgery has also recruited Dr. Michael Ujiki, after completing a minimally invasive fellowship at the Legacy Health System in Portland, Oregon. Dr. Ujiki has worked to establish single port surgery at NorthShore and has secured funding to develop natural orifice surgery.

With her recent certification as a National Accreditation Program for Breast Centers (NAPBC) surveyor, Dr. Kathy Yao has joined the division to serve an important role in redefining national standards of care for patients with breast diseases. She has also brought her basic research investigations in Notch signaling from her former position as Assistant Professor of Surgery and Director of the Breast Clinical Program at Loyola University Medical Center.

Dr. James Spitz has been recruited to partner with Dr. Joseph Muldoon and Dr. Glen Balch in delivering care for patients with colon and rectal diseases. This team has created the Continence Center at Highland Park Hospital and has worked to develop minimally invasive colon and rectal surgery, including the introduction of the DaVinci robotic system for rectal disease and the use of transendoscopic microsurgery for the local therapy of rectal cancers.

Recent awardees within the Department of Surgery for Clinical Collaborative Research Program (CCRP) awards include Drs. Kathy Yao and Stephen Sener for their prospective observational trial of breast MRI in newly diagnosed breast cancers, Drs. Brendler and McGuire for their multiphase study of active surveillance of men with clinical stage T1c or T2a localized prostate cancer, and Dr. David J. Winchester for DITAG genome scanning (DGS) technology for genome-scale identification of breast cancer genetic mutations.
IT Update

DoS - Sony Video Conferencing Room On-Line and On Schedule

Work in 676 Suite 650 is complete and the New Video Conferencing Facility is in use.

Education Support: On January 1st the Department’s aging Galter 10 Video Conference Room was “decommissioned” and replaced with a new space on the 6th floor of the 676 Building. The new facility is roughly 40% larger and seats close to 100 people. It replaces 7-year-old, standard definition technology with state-of-the-art three-chip HD cameras, 1080i and 1080p projectors and new tools from Sonic Foundry for recording and broadcasting presentations. Sony (a principal donor to the room) assisted the Department by providing three IPELA HD video conferencing units. These units are in use in the OR, in the new conference room itself, and a third is “mobile,” making dedicated HD conferencing available anywhere on the downtown campus.

Additionally, the “lecture capture” tool MediaSite from Sonic Foundry is now available for any presentation using the room. A speaker’s presentation can be recorded (with both the speaker and PowerPoint slides visually captured) and made available for later viewing on-campus via a browser. The Department currently captures Grand Rounds and select Core Curriculum lectures for later viewing, in what is sometimes referred to as “time shifting.”

Department-wide training for the use of the room has begun. (An initial “open to the general public training session” was scheduled for January 12.)

The DoS-Sony Video Conferencing Room is also available for use by members of the general University community. Interested departments should contact Frank Schleicher.

Room highlights

- Three Sony HD projectors projecting onto three screens, 1080i and 1080p HD resolution available
- Direct fiber connections to OR 17, 18, and 21 on the 5th Floor and OR 26, 27, 28, and 29 on the 7th Floor
- Web-based video conferencing to external facilities using compatible H.323 tools
- Custom local HD conferencing, using the mobile IPELA
- Quick-media connections to presenter laptops and other media, creating a “self-service” environment for many presentations
- On-screen annotation of presenter graphics
- In-room support available for all presentations
The Surgical Scope

Philanthropy Spotlight

Sharing a Greater Responsibility

Department of Surgery faculty members assume daily responsibility for the patients they treat, the research they advance, and the students, residents, and fellows they educate. While these professional contributions by all are exemplary, the private contributions by a group of Northwestern surgeons are truly above and beyond.

A group of six surgeons representing Northwestern Surgical Associates (NSA) pledged $120,000 in support of the Department’s residency program in May 2007—this year, Drs. Kevin Bethke, Wilson Hartz, Kyle Mueller, Steven Stryker, Mark Toyama, and Gerald Ujiki fulfilled their shared and singular commitment for the benefit of the residents who train under their tutelage. “To see such goodwill from faculty in support of our future leaders is inspiring,” said Dean Jameson. “I am tremendously grateful for their personal commitments to the Department’s educational mission.”

Together, these Department leaders challenged each other to match gifts over a year’s time. “We all feel that resident education is the foremost priority for the Department,” said Dr. Ujiki, “and so we wanted to make personal contributions in support of those shared professional goals.” The NSA Resident Research Fund has greatly strengthened the Department’s capacity to honor its mandate of putting education first for its residents and faculty educators. “We aim to provide the very best training experience for our residents,” said Department Chair Nathaniel Soper, MD, “and philanthropic contributions allow us to preserve and expand the resources we commit to that end. We are indebted to the NSA faculty members for their support.”

The entire Department of Surgery, its faculty, staff, and resident trainees, need only turn to our very own attending physicians from Northwestern Surgical Associates to see what’s possible when a greater responsibility is shared among colleagues and friends.

Philanthropy

The donations of our friends and alumni help the Department of Surgery keep up the high standards in research, education, and clinical expertise that have become synonymous with Northwestern. For more information on how to donate to the Department of Surgery, contact:

Sybil Boyajian
Manager, Professional Affairs
Department of Surgery
Ph: 312.926.8686
Fax: 312.926.7404
sboyajian@nmh.org
After receiving his medical degree from Philadelphia’s Temple University in 1947, Thomas W. Shields, MD, arrived at Northwestern’s medical school to serve a residency in the Division of Nephrology. Dr. Shields completed his residency in 1950, and then pursued a second residency, this time in General Surgery, followed by a fellowship, and finally a third residency in Cardiothoracic Surgery, which he completed by 1955. After nine years of graduate medical education, Dr. Shields joined the faculty that had helped shape his career, eventually leading the Lakeside VA Hospital as Chair of Surgery where he treated his fellow veterans—Dr. Shields served for two years in the Korean War. Today, after 57 years of service and counting, he holds the title of Professor Emeritus. Few careers in academic medicine can match Dr. Shield’s professional commitment to one institution.

Since 1987, Dr. Shields’ contributions as a surgeon, educator, and emeritus member of faculty have been quietly complemented with his generous gifts in support of resident education and the annual Thomas Shields Lectureship. This year, the Shields Lecture will welcome keynote speaker Marleta Reynolds, MD, interim surgeon-in-chief and head of pediatric surgery at Children’s Memorial Hospital in Chicago. In this, the eleventh year of the lectureship, Dr. Shields’ philanthropy continues to bring great minds to our campus for the benefit of the Department of Surgery’s faculty and residents. His spirit of giving promises generations of future surgeons the opportunity to advance their own careers here at Northwestern. And for that, we are all deeply grateful.
“Safer Surgery Today, Better Surgery Tomorrow”

Upcoming Events, 2009

March Grand Rounds
- **March 10**: Preservation of Fertility in Patients with Cancer, by Jaqueline Jeruss, MD, PhD, of Northwestern University. 676 6th Floor/ENH Room 2520 A&B/ CMH ECR M-108.
- **March 17**: Mayo Lecture, Barbara Bass, MD, of Weill Cornell Medical College. 676 6th Floor/ENH Room 2520 A&B/ CMH ECR M-108.
- **March 24**: Lecture by Cord Sturgeon, MD and Dina Elaraj, MD, of Northwestern University. 676 6th Floor/ENH Room 2520 A&B/ CMH ECR M-108.

April Grand Rounds
- **April 28**: Trial by Fire: The 1942 Cocoanut Grove Disaster and the Evolution of Surface Treatment for Burns, by Wen T. Shen, MD, of the University of California, San Francisco. 676 6th Floor/ENH Room 2520 A&B/ CMH ECR M-108.

May Grand Rounds
- **May 5**: Shields Lecture, by Marleta Reynolds, MD, of Children’s Memorial Hospital. Pritzker Auditorium.
- **May 12**: Lecture on simulator work, by Carla Pugh, MD, PhD, of Northwestern University. 676 6th Floor/ENH Room 2520 A&B/ CMH ECR M-108.
- **May 19**: Lecture on outcomes, by David Bentrem, MD, and Edward Wang, PhD, of Northwestern University. 676 6th Floor/ENH Room 2520 A&B/ CMH ECR M-108.

June
- **June 12**: Faculty Retreat/Edelstone-Bendix Residents Day.

The following table is a reference for all future newsletters. If you would like the Department of Surgery to include your recent presentation/article/book chapter, upcoming events, etc. in the next issue, please send the information (in a CV-format) to surgerydept@nmh.org by the due date listed below.

<table>
<thead>
<tr>
<th>Time Period Covered</th>
<th>Articles Due</th>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/1—2/28</td>
<td>2nd Friday of January</td>
<td>March Publication</td>
</tr>
<tr>
<td>3/1—8/31</td>
<td>2nd Friday of July</td>
<td>September Publication</td>
</tr>
</tbody>
</table>

The Department of Surgery thanks everyone who has contributed to this issue of “The Surgical Scope.”
## Department of Surgery Newly Funded Projects, fiscal year 2008

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Sponsor</th>
<th>Project period</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Breast Surgery</strong></td>
<td></td>
<td></td>
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<tr>
<td>Nora Hansen, MD</td>
<td>Interdisciplinary Breast Fellowship</td>
<td>Komen Breast Cancer Foundation</td>
<td>7/1/2008 6/30/2010</td>
<td>$90,000</td>
</tr>
<tr>
<td>Jaqueline Jeruss, MD, PhD</td>
<td>The Mechanistic and Oncogenic Significance of Smad 3 in Breast Cancer</td>
<td>American Cancer Society</td>
<td>12/1/2008 11/30/2009</td>
<td>$100,000</td>
</tr>
<tr>
<td>Jaqueline Jeruss, MD, PhD</td>
<td>The Oncogenic Relationship between Smad 3 and Cyclin Dependent Kinases in Breast Cancer</td>
<td>American Cancer Society - IRG</td>
<td>1/1/2008 12/31/2008</td>
<td>$20,000</td>
</tr>
<tr>
<td>Jaqueline Jeruss, MD, PhD</td>
<td>Three Dimensional Cellular Array for the Molecular Assessment of Breast Cancer</td>
<td>Illinois Dept. of Public Health</td>
<td>1/1/2008 6/30/2009</td>
<td>$100,000</td>
</tr>
<tr>
<td>Seema Khan, MD</td>
<td>Gene methylation and estradiol levels in random FNA samples as biomarkers for breast cancer risk</td>
<td>Avon Foundation</td>
<td>5/1/2008 4/30/2009</td>
<td>$500,000</td>
</tr>
<tr>
<td>Seema Khan, MD</td>
<td>Phase llb trial of Genistein in Women at High Risk for Breast Cancer</td>
<td>NIH/NCI</td>
<td>9/1/2007 8/31/2009</td>
<td>$776,600</td>
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<tr>
<td><strong>GI-Endocrine Surgery</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eric Hungness, MD</td>
<td>Improving Patient Safety and Multidisciplinary Team Efficiency in NOTES</td>
<td>NOSCAR</td>
<td>2/1/2008 1/31/2009</td>
<td>$11,163</td>
</tr>
<tr>
<td><strong>Plastic Surgery</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gregory Dumanian, MD</td>
<td>Targeted Reinnervention and Pattern-Recognition Control for Transradial Amputees</td>
<td>NIH RIC</td>
<td>5/15/2008 3/31/2013</td>
<td>$49,461</td>
</tr>
<tr>
<td>Robert Galiano, MD</td>
<td>Effect of Xenaderm ointment on scar formation in a rabbit ear scar model</td>
<td>HealthPoint</td>
<td>11/1/2007 6/30/2010</td>
<td>$15,300</td>
</tr>
<tr>
<td>Robert Galiano, MD</td>
<td>Prevention of bacterial biofilm formation and enhancing wound healing Super-Oxidized solutions</td>
<td>Oculus</td>
<td>9/1/2007 8/31/2008</td>
<td>$20,000</td>
</tr>
<tr>
<td>Robert Galiano, MD</td>
<td>A prospective, randomized, multi-center clinical evaluation to investigate the time to closure of delayed healing dehisced incisions, delayed healing traumatic wounds or chronic cutaneous defects surgically excised with Verajet Hydrosurgery System and those surgically excised using conventional operating room techniques</td>
<td>Smith &amp; Nephew</td>
<td>9/21/2007 9/21/2008</td>
<td>$139,300</td>
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### Plastic Surgery

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>Robert Galiano, MD</td>
<td>(Clinical Trial): An Observational Study to Delineate the Natural History of Scar to Development, Evolution, and Resolution in Healthy Human Volunteers Undergoing an Elective Abdominoplasty</td>
<td>Excaliard Pharm</td>
<td>7/14/2008 7/14/2009</td>
<td>Max Total Cost Per Contract: $385,701</td>
</tr>
<tr>
<td>Kathleen Kapp-Simon, PhD</td>
<td>Neurobehavioral Correlates of Craniosynostosis</td>
<td>NIH U of Washington</td>
<td>7/1/2008 6/30/2013</td>
<td>$684,235</td>
</tr>
<tr>
<td>Thomas Mustoe, MD</td>
<td>Effects of Xenaderm ointment on wound healing in rabbit ischemic wound model</td>
<td>HealthPoint</td>
<td>8/1/2007 7/31/2008</td>
<td>$64,300</td>
</tr>
<tr>
<td>Thomas Mustoe, MD</td>
<td>Evaluation of a CoDaTherapeutics Compound in skin wound healing and hypertrophic scar formation</td>
<td>CoDa Therapeutics</td>
<td>6/1/2007 5/31/2008</td>
<td>$30,000</td>
</tr>
<tr>
<td>Thomas Mustoe, MD</td>
<td>AFIRM: Therapy to limit injury progression, attenuate inflammation, prevent infection, and promote non scar healing after burns and severe battle trauma</td>
<td>DoD NJCB M</td>
<td>4/1/2008 8/31/2013</td>
<td>$353,750</td>
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### Surgical Oncology

<table>
<thead>
<tr>
<th>Name</th>
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<th>Sponsor</th>
<th>Project period</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Bentrem, MD</td>
<td>ACS-IRG, Bentrem-Quality Measures in Cancer Surgery</td>
<td>ACS Cancer Center</td>
<td>1/1/2008 12/31/2008</td>
<td>$20,000</td>
</tr>
<tr>
<td>David Bentrem, MD</td>
<td>Establishing Quality Measures in Cancer Surgery for Illinois Hospitals</td>
<td>ACS</td>
<td>7/1/2008 6/30/2009</td>
<td>$92,200</td>
</tr>
<tr>
<td>Paul Grippo, PhD</td>
<td>Omega-6 Fat Promotion of Mutant Kras-Induced Pancreatic Neoplasia</td>
<td>NIH/NCI</td>
<td>6/11/2007 5/31/2009</td>
<td>$275,000</td>
</tr>
<tr>
<td>Paul Grippo, PhD</td>
<td>Evaluating Kras Oncogene Addiction in Pancreatic Precancer and Cancer</td>
<td>AACR</td>
<td>7/1/2007 6/30/2009</td>
<td>$100,000</td>
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</table>

### Transplant Surgery

<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Sponsor</th>
<th>Project period</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Abecassis, MD, MBA</td>
<td>A Phase II Trial to Assess the Safety of Immunosuppression Withdrawal in Liver Transplant Recipients</td>
<td>NIAID/NIH UCSF</td>
<td>1/1/2008 4/30/2014</td>
<td>$1,160,549</td>
</tr>
<tr>
<td>Mary Hummel, PhD</td>
<td>Epigenetic control of cytomegalovirus latency and reactivation</td>
<td>NIH</td>
<td>4/1/2008 3/31/2010</td>
<td>$275,000</td>
</tr>
<tr>
<td>Dixon Kaufman, MD, PhD</td>
<td>Chicago Islet Consortium ICR at Northwestern</td>
<td>JDRF</td>
<td>7/1/2007 6/30/2008</td>
<td>$500,000</td>
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### Trauma and Critical Care

<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Sponsor</th>
<th>Subcontract</th>
<th>Project period</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gary An, MD</td>
<td>Rehabilitation Engineering Research Center (RERC) on Spinal Cord Injury</td>
<td>NIH</td>
<td></td>
<td>10/1/2007 – 9/30/2012</td>
<td>$70,532</td>
</tr>
<tr>
<td>Marie Crandall, MD</td>
<td>Racial and socioeconomic disparities in trauma care</td>
<td>R. Wood Johnson Found.</td>
<td></td>
<td>7/1/2008 – 6/30/2011</td>
<td>$299,319</td>
</tr>
<tr>
<td>Marie Crandall, MD</td>
<td>Racial Disparities in Trauma Care</td>
<td>Amer College of Surgeons</td>
<td>Loyola University</td>
<td>7/1/2007 – 6/30/2008</td>
<td>$80,000</td>
</tr>
<tr>
<td>Marie Crandall, MD</td>
<td>Trauma Center Brief Alcohol Treatments and Cost</td>
<td>NIH</td>
<td></td>
<td>11/1/2007 – 7/31/2011</td>
<td>$32,236</td>
</tr>
<tr>
<td>Marie Crandall, MD</td>
<td>Integrating Public Health Into a General Surgery Residency Program</td>
<td>CDC</td>
<td>Assn of Amer Med Colleges</td>
<td>1/30/2008 – 8/30/2008</td>
<td>$25,000</td>
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### Vascular Surgery

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Sponsor</th>
<th>Subcontract</th>
<th>Project period</th>
<th>Max Total Cost Per Contract</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Eskandari, MD</td>
<td>Protocol# P-2424: Atrium iCAST Iliac Pivotal Study</td>
<td>Atrium Medical/HCRI</td>
<td></td>
<td>10/18/2007 – 10/18/2008</td>
<td>Max Total Cost Per Contract: $54,565</td>
</tr>
<tr>
<td>Melina Kibbe, MD</td>
<td>(Varu) Efficacy of a Nitric Oxide-Based Vascular Therapy in Type 1 Diabetes</td>
<td>AMA</td>
<td></td>
<td>4/1/2008 – 3/31/2009</td>
<td>$2,500</td>
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<tr>
<td>Melina Kibbe, MD</td>
<td>(Hogg) Sex and Hormones: A New Way to Look at Vascular Injury and Nitric Oxide</td>
<td>AMA</td>
<td></td>
<td>4/1/2008 – 3/31/2009</td>
<td>$2,500</td>
</tr>
</tbody>
</table>
Awards, honors, presentations and publications

An, Gary MD

Awards and Honors

2008 Excellence in Teaching Award, Department of Surgery, Northwestern University

2008 Elected President, Swarm Development Group

2008 Appointed to Editorial Board, Critical Care Medicine

2008 Appointed to Editorial Board, The Open Critical Care Medicine Journal

2008 Invited Participant/Speaker, European Science Foundation (ESF) Exploratory Workshop on Computational Disease Modeling, Barcelona, Spain, September 25, 2008.

2008 Visiting Professor, Combined Graduate level course from the University of Pittsburgh School of Medicine/University of Pittsburgh Department of Mathematics—A systems approach to inflammation, ongoing


Presentations

Invited Participant/Speaker, European Science Foundation (ESF) Exploratory Workshop on Computational Disease Modeling—An Agent-Based framework for Integrative Dynamic Representation of Biomedical Knowledge: Towards an Ecological Paradigm for Collaborative Research, Barcelona, Spain, September 25, 2008.

Speaker, Grand Rounds, Department of Surgery, Northwestern University—Developing Computer Simulations of Pathophysiological Processes, Chicago, IL, October 14, 2008.

Invited Speaker, Pfizer Research Seminar Series—Using Dynamic Computational Modeling to piece together the Puzzle of Sepsis, Groton, CT, November 9, 2008.

Speaker, Grand Rounds, Department of Surgery, University of Chicago—Untangling the Complexity of Disease with Computational Modeling; A Surgeon's Perspective, Chicago, IL, November 19, 2008.


Speaker, Quick Shot Oral Presentation (MS II Michael Wandling), 4th Annual Academic Surgical Congress—An Agent Based Model of Pulmonary Inflammation in the Surgical Patient: In silico translation of cellular and molecular mechanisms to clinical phenomena, Ft. Myers, FL, February 5, 2009.

Publications


Please send an email to: surgerydept@nmh.org or contact 312.926.4138 with your questions, suggestions or requests to be added to the distribution list.

The table on the last page of this newsletter is a reference for all future newsletters. If you would like the Department of Surgery to include your recent presentation/article/book chapter, upcoming events, etc. in the next issue, please send the information (in CV-format) to surgerydept@nmh.org by the due date listed in the table (located on the last page of this newsletter).
Awards, honors, presentations and publications

Book Chapters:


Backer, Carl MD

Presentations

Backer CL, Kelle AM, Mavroudis C, Rigsby CK, Kaushal S, Holinger L. Tracheal reconstruction with unilateral lung agenesis or severe hypoplasia. European Congenital Heart Surgeons Association and Congenital Heart Surgeons’ Society Combined Meeting, Warsaw, Poland, Sept. 11-12, 2008.

Backer CL. Congenital heart surgery: indications, techniques, and results. University of Illinois at Chicago College of Medicine-Society of Pediatric Cardiology Training Directors-Children’s Memorial Hospital, Specialty Review in Pediatric Cardiology, September 15-19, 2008, Chicago, IL.


Kelle AM, Young L, Kaushal S, Backer CL. The Gerbode VSD: The significance of a left ventricle to right atrial shunt. 32nd Annual Meeting, Midwest Pediatric Cardiology Society, Minneapolis, MN, September 25-26, 2008.

Publications


Barrera, Ermilo Jr., MD

Awards and Honors

Northwestern University Faculty Teaching Award

Barsness, Katherine A., MD

Awards and Honors

2008 Course Director, Pediatric Surgery Fellows’ Course in Minimal Access Surgery

Publications

Shah, SR; Wishnew, J; Barsness, KA; Gaines, BA; Potoka, DA; Gittes, GK; Kane, TK. “Minimally Invasive Congenital Diaphragmatic Hernia Repair: A 7-Year Review of Our Institutional Experience.” Surgical Endoscopy. 2008 Oct 2

Barsness, KA; St Peter, SD; Holcomb, W; Ostlie, DJ; Kane, TD. “Laparoscopic Fundoplication After Previous Open Abdominal Operations.” JSLS. 2008 Oct 31

Kabre, R; Chin, A; Rowell, E; Browne, M; Barsness, KA; Luck, S; Jona, J.

Bentrem, David MD

Presentations


Shankaran V, Bentrem DJ, Mulcahy M, and Bennett CL. Economic Implications of Kras testing in metastatic colorectal cancer. GI ASCO, Jan 20, 2009

Shankaran V, Bentrem DJ, Mulcahy M, and Bennett CL. Economic Implications of Kras testing in metastatic colorectal cancer. GI ASCO, Jan 20, 2009

Strouch MJ, Khazaie K, Bentrem DJ. Mast cell tumor infiltration is associated with a worse prognosis in pancreatic adenocarcinoma. Association for Academic Surgery, Feb. 8, 2009 (Sanibel, FL)

Strouch MJ, Khazaie K, Bentrem DJ. Mast cell tumor infiltration is associated with a worse prognosis in pancreatic adenocarcinoma. Association for Academic Surgery, Feb. 8, 2009 (Sanibel, FL)


Salabat MR, Chan CY, Strouch MJ, Melstrom LG, Cheon E, Bell RH, Adrian TE, Ding XZ, and Bentrem DJ. TPA-induced transmembrane protein (TTMP) induces growth arrest in pancreatic cancer cell lines and its expression is downregulated in human pancreatic adenocarcinoma. forum, American College of Surgeons. Oct 22, 2008 (San Francisco, CA)


Publications


Blum, Matthew, MD

Awards and Honors

2007-2008 Excellence in Teaching Award, Dept of Surgery, Northwestern University Feinberg School of Medicine
Awards, honors, presentations and publications

Presentations


Moderator, Endoscopic Therapies for Airway & Esophageal Disorders Seminar, Northwestern Feinberg School of Medicine, Chicago, Illinois. September 12 & 13, 2008.

Speaker, Endoscopic Therapies for Airway & Esophageal Disorders Seminar, Northwestern Feinberg School of Medicine, Chicago, Illinois. September 12 & 13, 2008.

Publications


Chin, Anthony C., MD

Presentations


Publications


Crandall, Marie, MD, MPH

Awards and Honors

2008 Elected to the American Association for the Surgery of Trauma (AAST)

2008 Appointed to the AAST Prevention Committee
Awards, honors, presentations and publications

Trauma  Maui, HI  September 2008
Publications
Crandall M, Shapiro M, Worley M, West M.  Acute appendicitis: case time of day influences hospital length of stay (in press for Surgical Infections)

Crandall M, Schwab J, Sheehan K, Esposito T.  Illinois trauma centers and intimate partner violence: are we doing our share?  (in press for Journal of Interpersonal Violence)

Haider A, Chang D, Efron D, Haut E, Crandall M, Cornwell E.  Race and insurance status as risk factors for trauma mortality: not all black and white Archives of Surgery 2008;143(10):945-9

Book Chapters:


DaRosa, Debra, PhD
Publications
Papers (Refereed):
Bilimoria, K.Y., Kmieciik, T.E., DaRosa, D.A., Halverson, A., Eskandari, M.K., Bell, R.H., Soper, N.J., Wayne, J.D. Development of an Online Morbidity, Mortality, and Near Miss Reporting System to Identify Patterns of Adverse Events in Surgical Patients. (Accepted for Publication - Archives of Surgery)

Publications – Books/Book Chapters/Book Reviews

Presentations
Refereed
“Integrating Meaningful Learning Activities Relevant to Practice-based Learning and Improvement and Systems-based Practice into a Busy Residency Program.” (Association of American Medical Colleges, San Antonio, Texas, November 2008).

Invited
“How People Learn” presented for Faculty Development at Lankenau Hospital, Wynnewood, PA, December 3, 2008.

“How Can We Deliver Effective Surgical Education in a 48 Hour Work Week?” presented for a Colloquium at Oxford University, UK, September 2008.

“Motivating Faculty to Teach,” presented at the Program Director School sponsored by the Council on Resident Education in Obstetrics and Gynecology, July 2008.

de Hoyos, Alberto, MD
Presentations


Dumanian, Gregory, MD
Awards and Honors
2008 Visiting professor, Division of Plastic Surgery, Southern Illinois University,
Awards, honors, presentations and publications

May 2008

Presentations


Publications


Agnew S, Dumanian GA. A simple test: Please draw the incision. It is not as easy as we may think. J. Hand Surg. 2008, 33A: 1894-1898.


Book Chapters


Elaraj, Dina, MD

Presentations

Dina Elaraj, MD, Rebecca Sippel, Sheila Lindsay, RN, Ileana Sansano, MPH, Quan-Yang Duh, MD, Orlo H.
Awards, honors, presentations and publications

Clark, MD, Electron Kebebew MD, Prospective Validation of a simple scoring model to predict single gland disease in patients with primary hyperparathyroidism, February 3-6, 2009

Dina Elaraj, MD; Sheila Lindsay, RN; Ileana Sansano, MPH; Quan-Yang Duh, MD; Orlo H. Clark, MD; Electron Kebebew, MD, Are additional localization studies and referral indicated for patients with primary hyperparathyroidism who have negative sestamibi scans? Pacific Coast Surgical Association, February 13-16, 2009

Eskandari, Mark, MD

Presentations


Publications


Grady, Kathleen L., PhD, APN

Publications


Hansen, Nora M., MD

Awards and Honors

Chairman, Membership Committee, Western Surgical Society

2008 Named Top Oncologists in the Midwest, Top Doctors for Women, Women’s Health, November 2008; 115-120,

Publications


Presentations


Case Studies, Controversies in Case
Awards, honors, presentations and publications


Management of Breast Cancer in 2008, Department of Obstetrics and Gynecology Grand Rounds, Northwestern University, Feinberg School of Medicine, November 21, 2008

Howard, Michael, MD

Awards and Honors

2008, Voted Teacher of the Year from the Northwestern University Division of Plastic Surgery faculty, June 2008.

Howington, John, MD

Awards and Honors

2008 Elected Chair of the Thoracic Oncology Network Steering Committee for the American College of Chest Physicians, October 2008.

Publications


Hummel, Marybeth, PhD

Presentations

Invited Speaker, Rush University, Dec. 12, 2008 "Mechanisms of Cytomegalovirus latency and reactivation"

Publications


Hungness, Eric, MD

Awards and Honors

2009 Visiting Professor, University of Hawaii, Feb. 2009

Presentations


Moderator, Laparoscopic Heller Myotomy for the Surgical Treatment of Achalasia, ORLive Webcast, Northwestern University, Chicago, December 2, 2008.


Publications

Awards, honors, presentations and publications

Jeruss, Jaqueline, MD, PhD

Awards and Honors

Women’s Faculty Organization Award, Fourth Annual Lewis Landsberg Research Day Poster Competition, Northwestern University Feinberg School of Medicine, Chicago, IL, 2008.

American Cancer Society, Illinois Division Research Grant; “The Mechanistic and Oncogenic Significance of Smad 3 in Breast Cancer.”

Dixon Young Investigator Award, “Cyclin Mediated Inhibition of Smad 3 Tumor Suppression in Breast Cancer.”

KL2 Award, “Impact of Cyclin Overexpression on Smad 3 Tumor Suppression in Breast Cancer.”

Presentations

Speaker; Oncofertility Consortium Conference; “Effects of ovulation induction regimens, breast cancer and fertility,” Chicago, IL; September 15, 2008.

Chair; Controversies in Local Therapy: Radiotherapy and Plastic Surgery, Robert H. Lurie Comprehensive Cancer Center of Northwestern University’s 10th Annual Lynn Sage Breast Cancer Symposium; Chicago, IL; October, 2008.

Panel Discussion Member; Unusual Breast Problems – Patient with Isolated Recurrence in the Internal Mammary Nodes After a Negative Initial Sentinel Lymph Node Biopsy, Robert H. Lurie Comprehensive Cancer Center of Northwestern University’s 10th Annual Lynn Sage Breast Cancer Symposium; Chicago, IL; October, 2008.


Posters

Ghosh S, Bryce KS, Jeruss JS. Inhibition of Smad 3 Action is Mediated by Cyclin E Overexpression in Breast Cancer Cells. Society of Surgical Oncology, Chicago, IL, 2008.


Publications


Book Chapters


Bermas H, Bentrem D, Jeruss JS, Jordan VC. Steroid Receptors and Selective Es-
Awards, honors, presentations and publications

Kapp-Simon, Kathleen A., PhD

Awards and Honors

President of the American Cleft Palate-Craniofacial Association, 2008-2009.


Publications


Khan, Seema A., MD

Awards and Honors

Appointed Bluhm Family Professor of Cancer Research in September 2008; formal investiture in October 2008.

Named track leader for Breast Cancer track –2009 American Society of Clinical Oncology Annual Meeting

Karmanos Cancer Institute, Site Visit for Early Detection Research Network October 31, 2008

University of California-San Francisco Site Visit for Early Detection Research Network October 8, 2008

San Antonio Member Abstracts Review Committee – 2009

Presentations

Strategic Discussion on Biomarkers for Breast Cancer (NIH), “What are the clinical issues that we need to develop biomarkers for?” September 14, 2008, Seattle, WA.


Hellenicare Ukraine Medical Exchange and Visiting Professor to Mariupol State University, Mariupol, Ukraine. September 26-October 2, 2008.


94th Annual Clinical Congress: American College of Surgeons, Familial Breast Cancer: Evidence-Based Practices to Optimize each Patient’s Care.


Carol Baldwin Breast Cancer Research Lecturer. “Is local control important in the management of stage IV breast cancer?” Upstate Medical University, Syracuse, NY, October 29, 2008.

St. Agnes Hospital, Surgery Grand Rounds. “The importance of local control in the treatment of breast cancer” January 30, 08, Baltimore, MD.

Poster Presentations


Kibbe, Melina, MD

Awards and Honors

Association of Academic Surgery, Information and Technology Committee, 2008-2010
Association of VA Surgeons, -Program Committee, 2008- present
Society of University Surgeons, Committee on Publications, 2008 – 2011

Presentations


Awards, honors, presentations and publications


Lebowitz, Kim R., PhD

Presentations

Featured on ABC’s Good Morning America in October 2008. The story discussed the positive effect of psychological therapy on cardiac surgery outcomes


Lee, Richard, MD

Awards and Honors

2009/10 Elected President of the Medical Faculty Senate Council (MFSC) of the Feinberg School of Medicine for the 2009-2010 academic year.

Presentations


Moderator/Presenter: The Necessity of Intracardiac and Epicardiac Hybrid Ablation on Atrial Fibrillation. Fuwai Hybrid Forum, Fuwai Hospital, Beijing, People’s Republic of China, October 19, 2008.


Speaker, Surgical Update in Management of Heart Failure. 7th International Cardiovascular Conference, Jeddah, Saudi Arabia, November 19, 2008.

Speaker, Post Cardiac Surgery: Quality or Mortality? 7th International Cardiovascular Conference, Jeddah, Saudi Arabia, November 19, 2008.

Speaker, Hybrid Procedures in CAD: Dead or Alive? 7th International Cardiovascular Conference, Jeddah, Saudi Arabia, November 19, 2008.

Speaker, Current Status of Technology in Atrial Fibrillation Treatment. Korea Surgical AF Workshop, Samsung Medical Center, Seoul, South Korea, November 21, 2008.


Speaker, Atrial Fibrillation and Heart Failure. 4th Annual Heart Failure Holiday Symposium. Northwestern Memorial Hospital/Northwestern University, Chicago, Illinois, December 2008.

Publications


Madonna, Marybeth, MD

Presentations


Presenter, American Academy of Pediat-
Awards, honors, presentations and publications

Mahvi, David, MD

Awards and Honors

2008 James R. Hines Professor of Surgery, Nov. 2008

2008-09 President elect, Society for Surgery of the Alimentary tract

2008-present Executive program committee, ACS clinical congress

Presentations

Mahvi, DM. “Passion” Fleistrift for Layton Rikkers Madison WI, Sept 2008


Publications


Malaisrie, Chris S., MD

Presentations


Speaker, Cath Conference. Condell Medical Center. Chicago, IL, July 2008.

Publications


Matsumura, Jon, MD

Awards and Honors

President-Elect of Midwestern Vascular Surgical Society (2008-09)

Faculty of 1000, elected to membership


Presentations


“Current Strategies in the Management of Type B Aortic Dissection.” Gore Ad-
Awards, honors, presentations and publications


Book Editorship


McCarthy, Patrick, MD

Awards and Honors

Received 2008 Socrates Teaching Award. The Socrates Award is an annual award given by the Thoracic Surgery Residents Association to an outstanding faculty member in cardiothoracic surgery in recognition of his/her commitment to resident education and mentorship.

Presentations

Speaker, Overview of Cardiac Surgery. BCVI Medical Student Summer Lecture Series. Northwestern University Feinberg School of Medicine, Chicago, IL July 2008.


Speaker, Surgical Correction of Mitral Valve Disorders. Cardiology Grand Rounds. Northwestern University Feinberg School of Medicine. Chicago, IL, September 2008.


Speaker, Severe MR, Mild to Moderate TR. ACCF Heart Valve Summit. Chicago, IL, September 2008.

Speaker, Who Should Have Ventricular
Awards, honors, presentations and publications

Remodeling with Mitral Valve Repair?
ACCF Heart Valve Summit. Chicago, IL, September 2008.


Speaker, Cardiac Surgical Anatomy. Loyal Davis Surgical Society at Northwestern University, Chicago, IL, November 2008.

Speaker, MVR and AVR in Heart Failure. 4th Annual Heart Failure Holiday Symposium. Northwestern Memorial Hospital/Northwestern University, Chicago, IL, December 2008.

Speaker, Future of Surgical Treatment of Heart Failure. 4th Annual Heart Failure Holiday Symposium. Northwestern Memorial Hospital/Northwestern University, Chicago, IL, December 2008.

Speaker, Thoughts on the Ring Trilogy and Medical Innovation. Northwestern University’s Chapter (Gamma) of Alpha Omega Alpha, Honor Medical Society, Chicago, IL, December 2008.

Publications


McGee, Edwin, MD

Awards and Honors

2007-2008 Vascular Surgery Board of the American Board of Surgery, Examiner, Vascular Surgery Certifying Examination

Society for Vascular Surgery, Distinguished Fellow, Health Policy Committee

2008 Society for Vascular Surgery, Quality Measure Development Committee, National Quality Forum measure “Postprocedural Stroke or Death in Asymptomatic Patients undergoing Carotid Angioplasty and Stenting with Embolic Protection,” October

Presentations

Visiting Professor, “Debranching Aortic Procedures for TEVAR”. University of Iowa, Iowa City, IA, October 25, 2008.

Awards, honors, presentations and publications

“Pay for Performance, What Does it Mean?” Resident Seminar Series, Northwestern Memorial Hospital, July 1, 2008


Posters

Publications


Book Editorship

Book Chapters


Muldoon, Joseph, MD

Presentations

Pearce, William, MD

Awards and Honors
Faculty Mentor of the Year, Northwestern University Feinberg School of Medicine, 2008
America’s Top Doctors, 2008
American Vascular Association, Chair, National Open the Pathway Campaign

Presentations
“Unusual Vascular Cases.” Vascular Interdisciplinary Clinical Rounds, Northwestern Memorial Hospital, Chicago, IL, October 1, 2008.


“Arteriovenous Malformation, AVF, AV Grafts, Pseudoaneurysm, Transcranial Doppler (TCD), Lab Quality.” Vascular Physician’s Interpretation Course, Chicago, IL, October 4-5, 2008.

Moderator. Vascular Medicine for the Practicing Clinician, Chicago, IL, October
Awards, honors, presentations and publications

22, 2008.
“Blood Clots in the Upper Extremity.”
Vascular Medicine for the Practicing Clinician, Chicago, IL, October 22, 2008.

Discussant, “Does Axillosubclavian Vein Thrombosis Oblige First Rib Resection” (Johansen KH). Western Surgical Association, Santa Fe, NM, November 9-12, 2008.
“A Tribute to Dr. Robert Rutherford.”
Techniques and Outcomes in Endovascular Surgery, Chicago, IL, December 11-13, 2008.

Publications


Book Editorship


Book Chapters


Electronic Media


Society Leadership Positions

Prystowsky, Jay B., MD

Awards and Honors

2008 Received Excellence in Teaching Award, for 2007-2008

Pugh, Carla M., MD, PhD

Awards and Honors


Interview with National Public Radio -
Awards, honors, presentations and publications

February 13, 2008

Visiting Professorship – New York Hospital Queens – March 19, 2008

Appearance on the Chicago Public School – CPS Now! Television Show

Best Paper Award – Association of Surgical Education – May 2008

Feinberg School of Medicine – Medical Student Summer Research Mentor

Presentations

Panelist. How can members of SSH better collaborate with Industry to develop systems that meet their needs? 8th Annual Meeting on Simulation in Healthcare. January 2008.


Moderator – Surgical Education Session - 3rd Annual Academic Surgical Congress February 13-15, 2008

Invited Speaker - Taking Innovation to the Marketplace and Navigating Conflicts of Interest. 3rd Annual Academic Surgical Congress February 13-15, 2008


Publications


Pugh, CM, Blossfield, KM, Salud, LH. Use of Mannequin-Based Simulation to Decrease Student Anxiety Prior to Interacting with Male Teaching Associates. Teach Learn Med. (Accepted March 2008)

Rodriguez, Heron, MD

Presentations


Publications

Book Chapters


Electronic media


Roy, Nakshatra K., PhD

Presentations


Publications


Shapiro, Michael, MD

Awards and Honors

Appointed Interim Chief, Division of Trauma, and Trauma Program Director, Northwestern Memorial Hospital

Outstanding Teacher Award, Northwestern University Feinberg School of Medicine

Publications
Awards, honors, presentations and publications

Peer-Reviewed


Book Chapters


2008 Invited Speaker, International Conference on Minimally Invasive Surgery, Barcelona, Spain

Publications


Soper, Nathaniel J., MD

Presentations
2008 Chair, EITS, International NOTES Hands-On course, Strasbourg, France

2008 Visiting Professor, Cedar-Sinai Medical Center, Los Angeles, CA

2008 David Fromm Visiting Research Professor, Wayne State University, Detroit, MI
Awards, honors, presentations and publications

Talamonti, Mark, MD

Publications

Refereed Journal Articles


Bilimoria KY, Bentrem DJ, Wayne JD, Ko
Awards, honors, presentations and publications


Ujiki, Michael, MD

Presentations


Publications


Book Chapters


Wayne, Jeffrey, MD

Awards and Honors

2008 Awarded Outstanding Teacher, Northwestern University Feinberg School of Medicine

Publications


Winchester, David J., MD

Presentations


Winchester, David P., MD

Publications