NorthShore University HealthSystem (NorthShore) has a long tradition of providing leading-edge surgical care to the community it serves. The Department of Surgery has kept pace, and indeed has led the way. Within the Department, NorthShore has made extraordinary investments in 21st century technologies, translational research and the highest caliber of surgeons who are renowned in their respective specialties and who show steadfast commitment to their patients while mentoring and teaching future generations of surgeons.

2011 is no exception, vividly illustrating the Department of Surgery’s commitment to NorthShore’s mission “to preserve and improve human life” through excellence in clinical care, research and education. These accomplishments are highlighted in this Annual Report.

The achievements of the Department begin, first and foremost, with the talented surgeons from our nine divisions, which are summarized in this report. We had several key recruitments this past year, strengthening our capabilities within the Department. NorthShore is indeed fortunate to have an extraordinary cadre of superb clinical surgeons with demonstrated academic accomplishments whose top priority is outstanding patient care. In 2011, a number of these surgeons were ranked by *US News & World Report* in the top 1 percent of surgeons in the nation.

**Leading-Edge Capabilities**

In recent years, developments in operating room technology and minimally invasive surgical techniques have transformed most surgical subspecialties. NorthShore has kept pace with these advancements.

In 2011, the state-of-the-art, 13,000-square-foot NorthShore Center for Simulation and Innovation (NCSI) was opened at NorthShore Evanston Hospital. NCSI is designed specifically for multispecialty, multidisciplinary simulation. It is a leading resource for surgeons both to train in established minimally invasive techniques and develop and test new methods and procedures—essentially, it is the surgeons’ research lab.

NCSI received accreditation as a comprehensive Level I program from the American College of Surgeons (ACS) Education Institute. This is the highest status awarded by ACS, which seeks to build a community of institutions interested in furthering surgical education.

NorthShore is leading the way in using the most advanced surgical equipment and establishing surgical excellence in areas such as endoscopic surgery, minimally invasive procedures...
and Natural Orifice Transluminal Endoscopic Surgery (NOTES). Our surgeons are doing more with less invasive surgery and performing more complicated clinical surgery with less invasive technologies.

Research

The Department of Surgery at NorthShore has a collective goal for our division members to increase participation in clinical trials, as well as to author and create clinical trials that will have an impact upon patient care.

As these pages show, our surgeons are participating in various relevant clinical trials and research projects, many with leadership roles. Their innovative and participative approach to move new and better concepts of care into the clinical arena is evident. The active involvement and commitment by our surgeons to clinically relevant research is equally important to outstanding patient care now and well into the future.

Education

Given NorthShore’s stature as the primary teaching affiliate of the University of Chicago Pritzker School of Medicine, our surgeons play an integral role as mentors and educators to residents, interns and medical students. Our attending physicians hold academic appointments at the University. As an academic medical center, we create an exhilarating environment in which to learn and discover—this is true not only for future physicians, but also for the members of our Department.

Across all of our divisions, many of our surgeons have been recognized with various teaching awards, while others are involved in various academic endeavors, research programs and lectureships that demonstrate the dedication of our staff to lifelong learning. It is not surprising that many of our surgeons themselves received training at NorthShore and have come back to practice here and mentor up-and-coming surgeons.

The Department of Surgery has built on NorthShore’s 120-year history of growth, innovation and commitment to patient care. We are proud to share these accomplishments with you.

Sincerely,

Mark S. Talamonti, MD
Chairman of Surgery
Stanton and Margaret Rogers Palmer Chair of Surgery

Dr. Michael Ujiki, Director of NorthShore’s Center for Simulation and Innovation, bridges advances in Minimally Invasive Surgical technology and innovative strategies in Surgical Education with his commitment to establish NorthShore as a center of surgical and teaching excellence.
Clinical Growth

Over the past four years, under the leadership of Department Chairman Mark S. Talamonti, MD, our clinical volume has grown steadily. Key recruitments in the Department and NorthShore’s ability to lead the region in minimally invasive surgical techniques and advanced technologies have helped fuel this growth.

NorthShore’s investment in surgical technology and equipment has contributed to an overall increase in surgical procedures performed at our hospitals over the past four years. Since 2007, the number of surgical procedures has increased 69 percent. New patient office visits and the number of established patient office visits have also continued to climb.
Surgical Education

The NorthShore Department of Surgery has a full spectrum of educational offerings, beginning with undergraduate medical education and including graduate medical education for residents and fellows.

Our programs also extend to physicians’ assistants and to faculty continuing medical education. We have hosted courses for our own faculty and for visiting faculty from other institutions who come to NorthShore to take advantage of our expertise.

NorthShore is the primary teaching affiliate of the University of Chicago Pritzker School of Medicine. Our joint programs with the University of Chicago continue to grow and mature, providing mutual benefit to both institutions. The recent opening and accreditation of the NorthShore Center for Simulation and Innovation (NCSI) affords us the opportunity to expand our educational programs and to have a profound impact on the future of surgery and surgical education.

2011 University of Chicago Appointments/Promotions
Clinical Professor: Richard Prinz, MD
Clinical Associate Professor: Tina Desai, MD, and Navyash Gupta, MD
Clinical Assistant Professor: Michael Blum, MD; Subhasis Chatterjee, MD; Troy Close, MD; Theodore Eller, MD; Omar Morcos, MD; Veeral Sheth, MD; Marc Singer, MD; Mark Sisco, MD and Jeremy Warner, MD

Graduate Medical Education Programs
• University of Chicago General Surgery Residency Program received maximum five-year accreditation from the American Council of Graduate Medical Education (ACGME).
• University of Chicago Surgical Oncology Fellowship also received full five-year accreditation from the Society for Surgical Oncology. These accreditations reflect the high quality of our educational programs.
• The Department of Surgery contributes significantly to the education and training programs at the University of Chicago Pritzker School of Medicine, supporting the education of surgical fellows, residents and third- and fourth-year medical students in multiple surgical disciplines. Additionally, University of Illinois Otolaryngology residents also rotate through NorthShore.

Teaching Awards
• In recognition of her outstanding contributions to medical education, Nancy Schindler, MD, has been inducted into the prestigious Academy of Distinguished Medical Educators at the University of Chicago.
• NorthShore faculty receiving Teaching Excellence Awards from the University of Chicago Department of Surgery include: Omar Morcos, MD; Marc Singer, MD; James Spitz, MD; Mark Talamonti, MD; Michael Ujiki, MD; David J. Winchester, MD; David P. Winchester, MD and Katharine Yao, MD.
• Ophthalmology—Marian Macsai, MD, was honored with Teacher of the Year Award from the Division of Ophthalmology at the University of Chicago.

New Educational Programs
• Teaching Effectiveness—Nancy Schindler, MD, has implemented a new Teaching Effectiveness Faculty Development program, and 11 NorthShore surgical faculty members are participating.
• Open Surgical Skills Curriculum—Katharine Yao, MD, has been appointed to lead a new Open Surgical Skills Curriculum for University of Chicago general surgery residents.

Recent Grants Awarded
• Medical Education Grant—NorthShore has received a medical education grant from the University of Chicago Graduate Medical Education Committee entitled “Pilot Curriculum for Teaching Residents Single Incision Laparoscopic Surgery: A Patient Safety Initiative.” This is a three-year grant totaling $40,000.

Selected Educational Presentations
Nancy Schindler, MD, Vice Chairman of Surgery for Education, made several surgical education presentations at national meetings including:
• “Valuable Teachers Should Be Valued”—Association for Surgical Education, Boston, Mass., March 2011.
Surgical Research and Clinical Trials

Surgical Research

Surgeons at NorthShore participate in a wide variety of relevant clinical trials and research projects, many with leadership roles.

To support its members in these important endeavors, the Department includes a Surgical Research Office designed to advance the medications, instrumentations and technologies used in the field of surgery. The surgical research team is composed of dedicated staff—including physicians, nurses and research associates—who are specifically trained and certified in clinical research.

Surgical Research Office staff partner with surgeons to assist patients through the clinical trial process. This can include helping identify patients who qualify for clinical trials, determining eligibility, obtaining informed consent, monitoring adherence to the protocol, representing investigators to research and regulatory organizations, collecting data and ensuring that data is validated. The office also maintains a variety of clinical databases and coordinates the collection of solid tumors for the institution’s biospecimen repositories.

Surgical Research Organizational Chart

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<th>CORE Surgical Research Office</th>
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<td>Mark S. Talamonti, MD</td>
<td>Breast Surgery</td>
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<tr>
<td>Chairman, Department of Surgery</td>
<td>Tomasz Czechura, MS Research Associate</td>
</tr>
<tr>
<td>Charles Brendler, MD</td>
<td>Brigid Martz, BA, CCRP Clinical Research Associate</td>
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<tr>
<td>Vice Chairman, Research and Development</td>
<td>Mary Turk, CTR, CCRP Breast Study Database Manager</td>
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<tr>
<td>Marshall Baker, MD, MBA</td>
<td>Minimally Invasive Surgery</td>
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<tr>
<td>Associate Vice Chairman, Surgical Research</td>
<td>JoAnn Carbray, BS, CCRP Clinical Research Associate</td>
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<tr>
<td>Judith O’Leary, RN, OCN, CCRP Administrative Director</td>
<td>Minimally Invasive Surgery</td>
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<td>Ophthalmology</td>
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<td>Pancreatic Surgery</td>
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<tr>
<td>Ujala Bokhary, MBBS Research Associate</td>
<td>Michael Kamradt, BS Project Coordinator</td>
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<tr>
<td>Klara Agnes Brugger, RN Clinical Research Nurse</td>
<td>Susan Jane Stocker, LPN, BLS, CCRP Administrative Coordinator</td>
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<tr>
<td>Marna Burright, RN, BSN, CCRP Clinical Research Nurse</td>
<td>Veronica Rundell, PhD Clinical Research Associate</td>
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<tr>
<td>Michelle Catalano, BS, CCRP Research Study Coordinator</td>
<td>Brooks Johnson, MD Research Associate</td>
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<tr>
<td>Michele Corrado, RN, BA Clinical Research Nurse</td>
<td>Karen Hynes, BS Clinical Research Associate</td>
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<td>Karen O’Hara, BS, MT, ASCP Clinical Research Associate</td>
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<td>Jaclyn Pruitt, MA Clinical Research Associate</td>
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<tr>
<td>Sarah Rabbitt, RN, BSN, CCRP Clinical Research Nurse</td>
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<tr>
<td>Lissa Silver, PhD Research Scientist</td>
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Clinical Trials

Clinical trials are vital to testing new treatments that may ultimately improve patient care.

The NorthShore Department of Surgery has a dedicated research team that currently oversees more than 100 clinical studies, all of which have been approved by our Institutional Review Board (IRB). Listed here is a sample of our current clinical research studies.

2011 Selected Clinical Research Studies

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<th>Investigator</th>
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<tr>
<td>Chatterjee</td>
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<td>Industry</td>
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<tr>
<td>Howington</td>
<td>Establishment and Maintenance of a Comprehensive Data Registry and Tissue Bank for Lung and Esophageal Malignancies</td>
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<tr>
<td>Howington</td>
<td>ACOSOG Z4032: A Randomized Phase III Study of Sublobar Resection Versus Sublobar Resection plus Brachy-therapy in High Risk Patients with Non-Small Cell Lung Cancer, 3 cm or Smaller</td>
<td>National Cancer Institute (NCI)</td>
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<tr>
<td>Howington</td>
<td>ACOSOG Z4051: A Phase II Study of Neoadjuvant Therapy With Cisplatin, Docetaxel, Panitumumab plus Radiation Therapy Followed by Surgery in Patients With Locally Advanced Adenocarcinoma of the Distal Esophagus</td>
<td>NCI</td>
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<tr>
<td><strong>Division of General Surgery</strong></td>
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<tr>
<td>Singer</td>
<td>ACOSOG Z6051: A Phase III Prospective Randomized Trial Comparing Laparoscopic-Assisted Resection Versus Open Resection for Rectal Cancer</td>
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<td>Denham</td>
<td>Comprehensive Data Registry for NorthShore Bariatric Surgical Services</td>
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<td>Prinz</td>
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<tr>
<td>Ujiki</td>
<td>A Prospective Randomized Trial Comparing Single-Incision Laparoscopic Cholecystectomy vs. Standard Multi-Incision Laparoscopic Cholecystectomy</td>
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<td>Ujiki</td>
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<td>David J. Winchester</td>
<td>A Prospective Trial of Robotic Thyroid and Parathyroid Surgery</td>
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<td><strong>Division of Neurosurgery</strong></td>
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<tr>
<td>Awad*</td>
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<td>Awad*</td>
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<td>Industry</td>
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* Adjunct faculty with primary appointment at the University of Chicago Pritzker School of Medicine

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### Division of Otolaryngology

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<td>Baker</td>
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<td>Baker</td>
<td>Health Related Quality of Life in Surgical and Neoadjuvant Therapy for Pancreatic Cancer</td>
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<td>Talamonti</td>
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<td>Yao</td>
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### Division of Ophthalmology

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<td>Close</td>
<td>A Prospective Case-Crossover Study to Evaluate the Possible Association Between the Use of PDE5 Inhibitors and the Risk of Acute Nonarteritic Anterior Ischemic Optic Neuropathy (NAION)</td>
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<td>Macsai</td>
<td>Retrospective Comparison of Surgeon Complication Rates of Vitrectomy During Cataract Surgery</td>
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<td>Gupta</td>
<td>A U.S. Phase 2, Randomized Single Blind, Controlled, Comparative Efficacy and Safety Study of Topical Fibrocaps™ and Gelatin Sponge (USP) in Surgical Hemostasis</td>
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<td>IVC Filter Evaluation of Retrieval Incidence: Temporary vs. Permanent</td>
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### Division of Urology

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<td>Brendler</td>
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<td>Brendler</td>
<td>Reducing Stress During Active Surveillance</td>
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<td>Crawford</td>
<td>Periprostatic Fat as a Promoter of Prostate Cancer Progression</td>
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<td>McGuire</td>
<td>3-Dimensional Transrectal Ultrasound for Prostate Cancer Diagnosis and Surveillance</td>
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Dr. Katharine Yao is involved in a number of clinical research studies for breast cancer, including a prospective observational trial of breast MRI in newly diagnosed disease.
Translational Research

NorthShore has built its reputation on translational research, focusing its scientific inquiry on the direct improvement of clinical care and patient outcomes.

Under the leadership of Susan Crawford, DO, Director of NorthShore’s Metabolic Core Facility and Scientific Director of the Center for Molecular Medicine, the Department of Surgery is actively involved in a variety of important research studies that include three major cancers—breast, pancreatic and prostate. Our physician-scientists are studying ways to use metabolic profiles to determine prognosis and guide treatment in patients with certain cancers.

Breast Cancer

MR imaging and metabolic analysis of peri-tumoral fat from patients with breast cancer or patients with known genetic risk factors for breast cancer

Investigators: Drs. Katherine Yao, Phillip Fitchev and Susan Crawford

Summary: Imaging studies are performed in each patient group to determine whether specific changes can be identified in the fat surrounding breast tumors, and/or fat in breast tissue from patients known to have genetic risk factors. Explanted fat tissue is analyzed by nuclear magnetic resonance (NMR) technology and immunohistochemical stains for anti-angiogenic factor and lipid regulator, pigment epithelium-derived factor (PEDF), and lipolytic enzyme, adipose tri-glyceride lipase, in formalin-fixed fat tissue samples. The goal of the project is to discover novel imaging and metabolic features of peri-tumoral fat, thus, allowing better patient stratification for therapeutic management.

Functional studies of BRCA2 in the regulation of mammary stem cell proliferation and differentiation

Investigators: Drs. Qingshen Gao, Xiping Wang, Chaozhong Zou, Susan Crawford and Phillip Fitchev

Summary: We found that BRCA2 plays an important role in mammary stem cell differentiation. We also found that depletion of BRCA2 in telomerase immortalized human mammary epithelial cells leads to cells with pluripotent stem cell properties, which are capable of differentiating into myoepithelial, luminal epithelial cells and many lineages of mesenchymal cells, including adipocyte, chondrocyte, osteocyte, cardiomyocyte and neurocyte. Importantly, these BRCA2 depleted cells are capable of forming tumors in NOD-SCID mice. Our novel findings suggest that the main tumor suppressing function of BRCA2 is likely due to its role in mammary stem cells proliferation and differentiation.

Crosstalk between the BRCA2 and APC/β-catenin pathways in mammary stem cells and breast cancer

Investigators: Drs. Qingshen Gao, Chaozhong Zou and Katherine Goss (University of Chicago)

Summary: The regulation of stem cell behavior is thought to be a major driver of breast cancer pathogenesis and preliminary studies from the Gao laboratory indicate that BRCA2 is an important stem cell regulator. APC (adenomatous polyposis coli) is also a tumor suppressor frequently inactivated in breast and other cancers. Recently, the Goss lab discovered that APC is required for integrity of the differentiated mammary epithelium in vitro, and, in vivo, its loss sufficient to promote breast tumorigenesis. Wnt/β-catenin signaling is associated with stem cells in human breast cancer tissues. We hypothesize that the APC/β-catenin pathway may mediate BRCA2 regulation of stem cell differentiation and that disruption of APC and BRCA2 pathways likely play a synergistic role in breast cancer. To test these hypotheses, we propose to determine the role of the APC/Wnt pathway in BRCA2-mediated regulation of stem cell differentiation and elucidate the functional interaction between the BRCA2 and APC/β-catenin pathways in breast tumorigenesis.

Pancreatic Cancer

Study of pigment epithelium-derived factor (PEDF) as a potential therapy for pancreatic cancer and to investigate how cancer cells utilize lipid-related pathways to fuel their growth

Investigators: Drs. Mark Talamonti, Susan Crawford, Lijun Huang and Margo Quinn, MS

Summary: PEDF is over-expressed in pancreatic cancer cells and found to suppress tumor growth and invasion in vitro by altering a checkpoint kinase that monitors DNA damage. Lipid droplets within the pancreatic cells are altered when PEDF is expressed. Signaling pathways are being explored to better understand how PEDF regulates lipid stores in this tumor.

Study of genetic signatures of pancreatic tumors from patients with multi-year survival vs. one-year survival

Investigators: Drs. Kamalakar Gulukota, Mark Talamonti, Robert Marsh and Karen Kaul

Summary: While most cases of pancreatic cancer lead to death within a year, there are some long-term survivors (more than five years). We will sequence the exomes of both types of tumors. Analysis of the sequence will be done to identify the genetic markers of long-term survival. continued

Center for Molecular Medicine

NorthShore’s new Center for Molecular Medicine is translating advanced scientific discoveries at the molecular level into direct tangible benefits for patients. The program focuses on the cellular structure of diseases, which enables NorthShore physicians to offer patients new noninvasive ways of understanding their medical conditions. It also provides physicians with new tools to recognize and treat their patients with therapies tailored to their individual molecular profile. Janardan Khandekar, MD, former Chairman of Medicine at NorthShore, is the Center’s Director, with Susan Crawford, DO, serving as the Center’s Scientific Director.
Generating pancreatic cancer animal models by targeting BRCA2 pathway

**Investigators:** Drs. Qingshen Gao, Chaozhong Zou, Susan Crawford and Phillip Fitchev

**Summary:** We are in the process of developing three pancreatic cancer mouse models by targeting BRCA2, centrinobin and DSS1. Pancreatic tissue specific knockout mice will be generated by expressing cre recombinase specifically in pancreas. These mice will be crossed with Kras transgenic mice to evaluate their function in pancreatic cancer tumorigenesis.

Novel pancreatic cancer susceptibility genes

**Investigators:** Drs. Qingshen Gao, Wendy S. Rubinstein, Mark Talamonti, Chaozhong Zou, Vivien Wang, Karen Kaul, Randall E. Brand (University of Pittsburgh), and David Bentrem (Northwestern University) and Raj. H. Koneru, MS, and Kristen Vogel, MS

**Summary:** BRCA2 mutations likely account for the largest percentage of familial pancreatic carcinoma. Components of the BRCA2 pathway are likely direct targets of tumorigenesis and some may confer pancreatic cancer susceptibility through germline mutation. We have identified 13 BRCA2 binding proteins, including DSS1, MAGE-D1 and centrinobin that we have published. We have strong evidence indicating that the genes encoding these 13 BRCA2 binding proteins are likely pancreatic cancer susceptibility genes. We have screened for germline mutations for candidate genes encoding these BRCA2 binding proteins in 276 participants in our Pancreatic Cancer Family Registry (PCFR). We have identified a number of potential mutations in the candidate genes which are not present in the 480 control subjects. These findings suggest that these variants are potential disease-causing mutations. We are now in the process of determining whether loss of heterozygosity is present in the mutation carriers’ pancreatic cancer samples. The family members of the mutation carriers are in the process of being recruited to determine whether these potential mutations will co-segregate with pancreatic cancer.

Aging and pancreatic cancer

**Investigators:** Drs. Qingshen Gao and Chaozhong Zou and Michael Kamradt, BS

**Summary:** The risk factors consistently reported for pancreatic cancer are advanced age and cigarette smoking. In this project, we proposed to explore the role of aging in pancreatic cancer tumorigenesis using a mutated lamin gene that causes progeria. Hutchinson-Gilford progeria syndrome is a rare disorder characterized by accelerated aging and early death, which is caused by a lamin mutation (G608Q). This mutation results in production of a dominant negative form of lamin A protein, referred to as progerin. Recent findings indicate that progerin expression also plays a role in normal aging. We hypothesize that progerin expression likely promotes pancreatic cancer tumorigenesis. We have generated a transgenic mouse model by crossing progerin transgenic mice with BRCA2 mutant mice. We will further develop pancreatic tissue specific mutants to assess the role of progerin in pancreatic cancer tumorigenesis.

Functional studies of centrinobin, a component of BRCA2 pathway

**Investigators:** Drs. Qingshen Gao, Chaozhong Zou and Radhika Gudi

**Summary:** We have identified 13 BRCA2 interacting proteins, which are likely important components of BRCA2 pathway. One of these BRCA2 binding proteins is a novel daughter centriole protein, centrinobin. We are in the process of studying its biological function and its role in pancreatic and breast cancer tumorigenesis.

Develop a therapeutic approach for pancreatic cancer with fewer side effects by targeting a critical centrosomal protein, centrinobin

**Investigators:** Drs. Qingshen Gao, Xiping Wang, Chaozhong Zou and Radhika Gudi

**Summary:** The majority of chemotherapeutic drugs target DNA replication, effectively killing rapidly dividing cells, including cancer cells, as well as rapidly dividing normal cells in some tissues. Damage to these normal tissues with rapidly dividing cells, including hair follicles, intestinal epithelium and bone marrow, leads to common side effects such as alopecia, diarrhea and hematologic disorders including anemia. We have recently found that depletion of centrosomal proteins such as centrinobin inhibits centrosome duplication in cancer cells, leading eventually to cell death, while in normal cells, inhibition of centrosome duplication leads to cells with unduplicated centrioles and cell cycle arrest, but not cell death. Therefore, we hypothesize that inhibition of centrosome duplication could be a novel therapeutic approach for pancreatic cancer with fewer side effects. We have indentified a critical domain of centrinobin that is important for its interaction with tubulins and have established that centrinobin-tubulin interaction is required for centriole elongation and stability. Two critical phosphorylation sites have also been identified.

Prostate Cancer

Metabolic analysis of peri-prostatic fat surrounding tumor-bearing prostates and normal prostates in obese and non-obese patients

**Investigators:** Drs. Susan Crawford, Jennifer Doll, Phillip Fitchev and Charles Brendler

**Summary:** Peri-prostatic fat from each patient group is analyzed using NMR technology and various bioassays to discover any unique metabolites made by peri-prostatic fat in the obese patient group. Fat-derived metabolites that are discovered to promote tumor cell proliferation in bioassays have the potential to serve as biomarkers to predict disease outcome or they can be the target for development of new therapeutic interventions.

Development of bioadhesives for delivery of stem cells to postsurgical tumor sites to provide immediate anti-tumor therapy

**Investigators:** Drs. Susan Crawford, Guillermo Ameer and Phillip Fitchev

**Summary:** We have discovered that stem cells can secrete anti-angiogenic proteins, and we are developing a system in collaboration with biomedical engineers from Northwestern to embed neural stem cells in a bioadhesive derived from marine mollusks. This can then be applied to the bed of a tumor following surgical removal to eradicate microscopic residual cancer cells before they can replicate and metastasize.

Study the pattern of fat infiltration in low- and high-grade human prostate cancer specimens and the expression of lipid regulators

**Investigators:** Drs. Kristian Novakovic, Susan Crawford and Phillip Fitchev

**Summary:** Since fat cells are known to secrete tumor-promoting factors, we are evaluating whether high-grade tumors are associated with infiltrating fat and whether this fat promotes tumor dedifferentiation and progression.

Investigate the expression pattern of lipid regulators in prostate core biopsies in patients enrolled in the active surveillance study and compare these data to body mass index (BMI) and tumor progression

**Investigators:** Drs. Susan Crawford, Phillip Fitchev and Charles Brendler

**Summary:** Immunohistochemical studies using antibodies directed against lipolytic mediators are being performed on prostate core biopsy samples. The staining is scored by two pathologists and will be compared to BMI.
Selected Honors

Throughout its nine divisions, the skills and expertise of the physicians in the Department of Surgery have been recognized by a variety of professional organizations and publications. Those selected honors and the individual physicians recognized are listed here.

National Recognition
The Divisions of Neurosurgery and Urology were recognized in 2011 by *US News & World Report* as among the “best performing” programs nationally.

Castle Connelly Top Doctors United States—Top 1 Percent
John Alexander, MD, Cardiac Surgery
Bruce Bauer, MD, Plastic Surgery
Charles Brendler, MD, Urology
John Howington, MD, Thoracic Surgery
Richard Prinz, MD, Surgical Oncology
Mark Talamonti, MD, Surgical Oncology

Castle Connelly Top Doctors United States—Top 10 Percent
Ermilo Barrera, MD, Surgical Oncology
Michael Blum, MD, Urology
Thomas Keeler, MD, Urology
Marian Macsai, MD, Ophthalmology
Michael McGuire, MD, Urology
Joseph Muldoon, MD, General Surgery
Nancy Schindler, MD, Vascular Surgery
Jose Velasco, MD, General Surgery
David J. Winchester, MD, Surgical Oncology

Who's Who in the World/America/Medicine and Healthcare
Charles Brendler, MD, Urology
Leonard Cerullo, MD, Neurosurgery
John Howington, MD, Thoracic Surgery
Marian Macsai, MD, Ophthalmology
Mark Talamonti, MD, Surgical Oncology

Cardiac and Thoracic Surgery
• John Alexander, MD—President, American College of Chest Physicians Foundation
• John Howington, MD—Chair, Thoracic Oncology Network, American College of Chest Physicians
• John Howington, MD—Illinois Governor, American College of Chest Physicians
• John Howington, MD—Membership Committee, Southern Thoracic Surgical Association

General Surgery
• Michael Ujiki, MD—Awarded Preceptor of the Year from Rosalind Franklin University of Medicine and Science
• Jose Velasco, MD—Appointed Director of Education, NorthShore Center for Simulation and Innovation

Neurosurgery
• Gail Rosseau, MD—Appointed Vice President, North America, World Federation of Neurosurgical Societies

Ophthalmology
• Marian Macsai, MD—Awarded Teacher of the Year by Division of Ophthalmology at the University of Chicago Pritzker School of Medicine

Surgical Oncology
• Marshall Baker, MD—Best Original Paper by New Member, Midwest Surgical Association Meeting, 2010
• Katharine Yao, MD—Appointed to Internal Advisory Committee, University of Chicago Breast Special Program of Research Excellence (SPORE) Program
• Katharine Yao, MD—Appointed to Executive Committee, Central Surgical Association

Urology
• Susan Crawford, DO—Currently the Director of Urologic Research; recently appointed Scientific Director of the NorthShore Center for Molecular Medicine

Vascular Surgery
• Joseph Caprini, MD—President, American Venous Forum
• Tina Desai, MD—Program Committee, Midwest Vascular Surgery Society, 2010–2011
• Benjamin Lind, MD—Medical Director, Highland Park Wound Care Center
• Nancy Schindler, MD—Chairman, Awards Committee, Association for Surgical Education
After five years of outstanding service as Division Chief, John Alexander, MD, retired as Chief of Cardiac Surgery and has been succeeded by Paul J. Pearson, MD, PhD, a Mayo Clinic-trained cardiothoracic surgeon and scientist. Dr. Pearson’s overall goal is to make the Division a destination site for cardiac surgery. Specific Divisional initiatives include focusing on the surgical treatment of heart failure, a multidisciplinary approach to complex aortic surgery, hybrid surgical approaches for the treatment of atrial fibrillation and partnering with the Division of Cardiology to establish a regional Heart Valve Institute.

New Faculty
- Ki Wan Kim, MD—Dr. Kim completed general surgery residency at the University of Southern California and a thoracic surgery fellowship at the University of Michigan. His interests include thoracic oncology, minimally invasive/robotic thoracic surgery, esophageal surgery and mediastinal disease.

Resident in Cardiothoracic Surgery
NorthShore now has a full-time cardiovascular and thoracic resident from the University of Chicago.

Clinical Programs
- Perfusion Technology—Introduced the cardiopulmonary “mini circuit” (Medtronic Resting Heart System, Minneapolis, Minn.) that dramatically reduces blood and blood product utilization for use in all heart operations requiring cardiopulmonary bypass. NorthShore is the only institution in Illinois utilizing this advanced new technology.
- Thoracoscopic Heart Surgery—Performed first totally thoracoscopic epicardial ablation procedures on the beating heart. This technology allows us to treat patients with debilitating cardiac arrhythmias utilizing telescopes and miniaturized radiofrequency probes.
- Least Invasive Heart Valve Surgery—Introduced “least invasive” heart surgery to treat structural heart disease. Technology allows surgeons to repair and replace heart valves through small ports instead of through a conventional chest incision.
- Lung Cancer Screening—John Howington, MD, is Co-Director of a multi-institutional new clinical program using CT scans to screen 55- to 79-year-old patients with a smoking history of 30 or more packs per year.

Clinical Trials
- Partner II Trial—Partnering with Cardiology to evaluate the next-generation Edwards SAPIEN XT valve for transcatheter treatment of severe symptomatic aortic heart valve stenosis.
- EVEREST II Trial—Partnering with Cardiology in a randomized study of Evalve Inc., Cardiovascular Valve Repair System (MitraClip®) in the treatment of mitral valve regurgitation.
- EXCEL Trial—Study comparing outcomes of drug-eluting stents to coronary artery bypass surgery in patients with left main coronary artery disease.

NorthShore Service
- John Howington, MD, Chief of Thoracic Surgery, also serves as Director for Medical Group Quality for Surgical and Hospital-based specialties.
The Division of General Surgery was divided this year into two Divisions: the Division of General Surgery led by Ervin (Woody) Denham, MD, and the Division of Surgical Oncology led by David J. Winchester, MD. The Division of General Surgery includes the sections of Colorectal and Minimally Invasive Surgery and is composed of nine surgeons.

New Faculty
- John Linn, MD, completed his general surgical residency at Northwestern University and then a minimally invasive surgical fellowship at Ohio State University.
- Stephen Haggerty, MD, and Barbara Loris, MD, highly regarded general surgeons in Lake County, have joined the NorthShore Medical Group.

New Facility
The NorthShore Center for Simulation and Innovation (NCSI) opened at NorthShore Evanston Hospital in May 2011. The NCSI is a state-of-the-art, 13,000-square-foot facility that is used for both minimally invasive surgical research and education. Under the leadership of Michael Ujiki, MD, Director of Surgical Simulation, NCSI has already conducted six training courses and will be increasingly utilized for the education of attending surgeons, surgical residents, medical students and other health professionals. Jose Velasco, MD, Chief of Surgery at NorthShore Skokie Hospital, has been named Director of Education for this new facility.

Clinical Programs (continued)
- Colorectal Surgery—Under the leadership of Joseph Muldoon, MD, NorthShore has become a regional leader in innovative new surgical procedures, including sacral nerve stimulation for fecal incontinence.

Clinical Trials
The Division has multiple ongoing clinical trials including:
- Outcomes of Single-Port Versus Multiple-Port Cholecystectomy
- Efficacy of Pain Pumps in Abdominal Wall Hernia Repair
- Evaluation of Compression Colorectal Anastomosis Ring
- Efficacy of Bioabsorbable Staples in Intestinal Anastomoses
- Multicenter Study of Bio-Fistula Plus In-Anal Fistula Repair

Selected Visiting Professorships
- Marc Singer, MD—“Anal Fistulas: Have We Given Up on Glue?” and “Beyond Snare Polypectomy.” Presented at American Society of Colon and Rectal Surgeons Annual Meeting, Vancouver, Canada, May 2011.
- Jose Velasco, MD—Laparoscopic Instructor; 97th Annual Clinical Congress of the American College of Surgeons, San Francisco, Calif., October 2011.

The NorthShore Center for Simulation and Innovation (NCSI) opened in May 2011 at Evanston Hospital. NCSI is designed specifically for multispecialty, multidisciplinary surgical simulation. It is a leading resource for surgeons both to train in established minimally invasive techniques and to develop and test new methods and procedures. NCSI received accreditation as a comprehensive Level I program from the American College of Surgeons (ACS) Education Institute.
Highlights and Accomplishments

New Department and Departmental Chairman

Neurosurgery this year became an independent Department and successfully recruited its first Chairman, Julian Bailes, MD, from the West Virginia University School of Medicine where he had been Professor and Chairman of Neurosurgery. Dr. Bailes is internationally recognized for his expertise in the management of brain trauma.

Recruitment of CINN Neurosurgeons and Neuroresearch Physicians to NorthShore

The Chicago Institute of Neurosurgery and Neuroresearch (CINN) was successfully recruited and integrated into the NorthShore Division (now Department) of Neurosurgery.

Establishment of NorthShore Neurological Institute (NNI)

In collaboration with the Department of Neurology, this new Institute will occupy the second floor of the John and Carol Walter Ambulatory Care Center at Glenbrook Hospital, which is currently under construction and scheduled to open in March 2012.

Endowed Departmental Chair

The Ivan S. Ciric Chair of Neurological Surgery was established. Julian Bailes, MD, the new Professor and Chairman of Neurosurgery, was endowed with the Arlene and Marshall Bennett and Joseph A. Tarkington, MD, Chair of Neurosurgery.

Collaborations

- **Orthopedics:** Combined Neurosurgery—Orthopedic Spine Conference initiated
- **Neurology:** Comprehensive stroke, normal pressure hydrocephalus, epilepsy, trigeminal neuralgia and deep brain stimulation programs
- **Otolaryngology:** Skull-base collaboration for pituitary tumors and other tumors approached via the temporal bone

Creation of Academic Day

Held the third Friday of each month and devoted to resident teaching, presentations and visiting professors have included:

- Richard Byrne, MD, Professor and Chairman of Neurosurgery, Rush University School of Medicine
- John Liu, MD, Associate Professor of Neurosurgery, Northwestern University
- Michael Lawton, MD, Professor of Neurosurgery, University of California, San Francisco
- Josh Medow, MD, Assistant Professor of Neurosurgery, University of Wisconsin
- Marc Simard, MD, Professor of Neurosurgery, University of Maryland

Selected Visiting Professorships

- Julian Bailes, MD—Goldwater Lecturer, Barrow Neurological Institute, Phoenix, Ariz., February 2011
- Julian Bailes, MD—Visiting Professor, Department of Neurosurgery, Stanford University Medical Center, Stanford, Calif., March 2011
- Julian Bailes, MD—National Neurotrauma Symposium, Fort Lauderdale, Fla., July 2011
- Julian Bailes, MD—Honored Guest, Georgia Neurosurgical Society, Atlanta, Ga., December 2011
- Ivan Ciric, MD—University of Novi Sad, Novi Sad, Serbia, July 2010 and June 2011
- Ivan Ciric, MD—International Neuroscience Institute Congress, Hannover, Germany, July 2010
- Ivan Ciric, MD—University of Kragujevac, Kragujevac, Serbia, June 2011
- Dean Karahalios, MD—Surgical Experimentation Program Bio-Skills Laboratory, Florence, Italy, October 2010
- Gail Rosseau, MD—Gurdjian-Thomas Visiting Professor, International Neurosurgical Programs in Head and Spine Injury Prevention, Wayne State University, Detroit, Mich., January 2011

Educational Courses Taught

- Leonard Cerullo, MD—Evidence-Based Treatment of Common Spine Conditions, NorthShore University HealthSystem CME course, June 2011

The Division of Neurosurgery is composed of neurosurgeons who are nationally and internationally regarded in their field, including Dr. Gail Rosseau and Dr. Ivan Ciric. Dr. Ciric retired from NorthShore in 2011 after 44 years.
Division of Ophthalmology

Highlights and Accomplishments

New and Expanded Offices
- Vernon Hills—New office on Milwaukee Avenue staffed by Tony Pira, MD.
- Evanston Office—Expanded into new space at 1000 Central Street; anticipated that even larger space will be required in a few years.

New Faculty
- Manvi Maker, MD—Dr. Maker was recruited from New York University and currently sees patients at Glenbrook and Evanston Hospital locations. He specializes in retinal diseases, including diabetic retinopathy.
- Tony Pira, MD—Dr. Pira was recruited from Boston University and sees patients at Vernon Hills and Glenbrook Hospital locations. He specializes in family and geriatric ophthalmology.

Recognition
- Marian Macsai, MD—Chair, Eye Bank Association of America
- Marian Macsai, MD—Committee on Membership, American Ophthalmological Society
- Manvi P. Maker, MD—Associate Program Director, Ophthalmology Residency, University of Chicago

International Service
- Marian Macsai, MD—Traveled to Vietnam teaching cataract surgery to Vietnamese ophthalmologists.
- Marian Macsai, MD—As Chair of the Eye Bank Association of America, worked in Sri Lanka helping to form an association of eye banks in Asia and is also working to help form a global alliance of eye bank associations.
- Marian Macsai, MD—Attended two meetings sponsored by the World Health Organization regarding vigilance and surveillance of disease transmission through organ transplantation; Dr. Macsai is the representative for ocular tissue.

Clinical Trials
- Troy Close, MD—Relationship between PDE5 inhibitors and non-arteritic anterior ischemic optic neuropathy
- Marian Macsai, MD—Implanted Accommodative Intraocular Lenses; Phase II trial for Abbott Medical Optics
- Marian Macsai, MD, and Mira Shiloach, MS—Working with University of Chicago medical students to analyze differences in surgical techniques in cataract surgery and how these affect outcomes
- Veeral Sheth, MD, and Manvi Maker, MD—Accepted to Diabetic Retinopathy Clinical Research Network, national network of investigators sponsored by National Eye Institute
- Veeral Sheth, MD—Use of intravitreal vascular endothelial growth factor (VEGF) in treatment of age-related macular degeneration
- Veeral Sheth, MD—Vitamin supplementation in age-related eye disease (AREDS II); NIH funded multicenter trial

Grants
- Veeral Sheth, MD, PI—“Comparison of Vitreal pH Between Diabetic and Non-Diabetic Patients: A Pilot Study,” NorthShore Research Institute Pilot Grant

Selected Visiting Professorships
- Marian Macsai, MD—“50 Years of Cornea Vigilance,” Eye Bank Association of America. Presented at World Health Organization—Project NOTIFY, Bologna, Italy, February 2011
- Veeral Sheth, MD—Invited Lecturer, Combined Meeting of the Asia-Pacific Vitreo-Retina Society and Vitreoretinal Society of India, Hyderabad, India, December 2011

Forecast for 2012
- Open an optical shop at Glenbrook Hospital
- Integrate Ophthalmology imaging into NorthShore’s Electronic Medical Record (EMR) system
- Initiate multi-institutional clinical trial to better understand the effects of pH on the diabetic retina

Dr. Marian Macsai, Chief of the Division of Ophthalmology, is pictured examining patient Charles Woods, whom she treated for a life-changing corneal transplant surgery. Under Dr. Macsai’s leadership, the Division expanded into new office space in Evanston and established a new office in Vernon Hills.
Mark Gerber, MD, has succeeded Barry Wenig, MD, as Chief of Otolaryngology. Dr. Gerber completed residency and fellowship training in pediatric otolaryngology and maxillofacial surgery at Children’s Hospital Medical Center in Cincinnati, and, after several years in practice in Atlanta joined NorthShore University Health System in 1999.

New Faculty
• Mihir Bhayani, MD—Dr. Bhayani completed residency at the University of Chicago and then a two-year oncology fellowship at M.D. Anderson Cancer Center. He is the only oncology fellowship-trained head and neck cancer surgeon in the northern suburbs of Chicago.

Clinical Programs
• Rhinology and Anterior Skull Base Program—Established in 2007 by Joseph Raviv, MD, this is the first center in the northern Chicagoland area to offer comprehensive medical and surgical treatment of chronic sinusitis by a fellowship-trained otolaryngologist. Providing more than 3,500 patient visits per year, the NorthShore Sinus Center offers advanced care, including minimally invasive and computer-assisted surgery, for patients with chronic sinusitis, nasal polyposis, fungal sinusitis, nasal obstruction and tumors of the nasal cavity and anterior skull base. Approach to these disorders is multidisciplinary, incorporating the expertise of Neurosurgery, Allergy/Immunology, Pulmonology and Maxillofacial Surgery.
• Neurotology—Led by Michael Shinners, MD, the NorthShore neurotology program utilizes a comprehensive approach to diagnose and manage the full spectrum of ear diseases, including the medical and surgical management of Meniere’s disease, chronic ear infections, cholesteatoma and hearing loss including cochlear implant team services for infants, children and adults. Audiometric services range from initial evaluation of children who have failed their newborn hearing screening to hearing aid fitting and complex cochlear implant programming. Our team collaborates with both Neurosurgery and Plastic Surgery to manage complex lateral skull base tumors such as acoustic neuromas and meningiomas, as well as congenital abnormalities that include congenital outer ear abnormalities and conductive hearing loss.
• Pediatric Otolaryngology—Head and Neck Surgery section includes three fellowship-trained specialists who provide more than 12,000 outpatient visits and 1,700 surgical procedures per year. NorthShore Pediatric Airway, Voice and Resonance Clinic, led by Mark Gerber, MD, is one of the only programs in the Chicago area that provides comprehensive evaluations for children with congenital or acquired airway, voice, resonance and swallowing problems. Combining multispecialty child-focused resources allows for a detailed diagnostic analysis, as well as directed management with a wide array of both medical and surgical options. These options include cleft palate repair, sphincter pharyngoplasty and laryngeal reconstruction using minimally invasive endoscopic techniques.

Recent Grants Awarded
• Mihir Bhayani, MD—Enhancing Radio Sensitivity Through Inhibition of STAT3 in Head and Neck Squamous Cell Carcinoma; American Head and Neck Society CORE Grant Program, $10,000

Selected Visiting Professorships/Invited Lectureships
• Mark Gerber, MD—Fiber Optic Endoscopic Evaluation of Swallowing in Children. Presented at Pediatric Dysphagia Course, Rehabilitation Institute of Chicago, Chicago, Ill., July 2010
• Joseph Raviv, MD—Contemporary Management of Chronic Sinusitis. Presented at Otolaryngology Grand Rounds, University of Chicago, Chicago, Ill., March 2011

Selected Educational Courses Taught
• Joseph Raviv, MD—NorthShore University HealthSystem Chicago Rhinoplasty Symposium, Chicago, Ill., May 2010 and May 2011
• Michael Shinners, MD—Temporal Bone Dissection Course for University of Chicago Otolaryngology residents, Chicago, Ill., August 2010
Bruce Bauer, MD, succeeded Karol Gutowski, MD, as Division Chief of Plastic Surgery. Dr. Bauer was previously the Chief of Pediatric Plastic Surgery at Children’s Memorial Hospital. He is internationally recognized for his expertise in pediatric plastic surgery, with special expertise in the treatment of large and giant congenital nevi, correction of congenital and acquired deformities of the ear and tissue expansion in children for a full range of congenital and acquired deformities in all body regions.

New Division Members

- Veronica Rundell, PhD, joined the Division as Clinical Research Associate.
- D. Brooks Johnson, MD, joined the Division as Research Associate.

Clinical Programs

- Hair Transplantation—Jeremy Warner, MD, is investigating a new micro grafting technique in hair transplantation.
- Migraine Surgery Clinic—Michael Howard, MD, is investigating botox injections and surgical techniques for treatment of selected migraine headache cases.

Clinical Trials

- Giant Nevi and Neurocutaneous Melanocytosis—Bruce Bauer, MD, is collaborating with the University of Pittsburg Children’s Hospital to establish a tissue bank to study the embryologic development and neural sequelae of giant nevi.
- Otoplasty—Bruce Bauer, MD, is leading a new IRB-approved study entitled “The Impact of Otoplasty on Psychological Wellness.”
- Breast Reconstruction
  - Michael Howard, MD, is leading a study of long-term complications of dermal matrix implants in breast reconstruction. He is also leading our nipple-sparing mastectomy study and long-term surveillance study of silicone breast implants.
  - Mark Sisco, MD, has developed a prospective breast reconstruction database that will follow patients for 10 years postoperatively to assess satisfaction and emotional wellness. He is also conducting a retrospective chart review investigating preoperative predictors of postmastectomy radiation therapy.
- Rhinoplasty Pain Reduction—Jeremy Warner, MD, is investigating which of two types of rib graft results in lower postoperative pain following rhinoplasty.

Selected Visiting Professorships/Invited Lectureships

- Bruce Bauer, MD—Co-Chairman, Aesthetic Facial Reconstruction in Adults and Children Symposium, Tucson, Ariz., February 2010
- Bruce Bauer, MD—Plastic Surgery Residents’ Day, University of Alberta, Edmonton, Alberta, Canada, April 2010
- Bruce Bauer, MD—“The Role of Tissue Expansion in Treatment of Large and Giant Nevi,” 2011 International Expert Meeting on Large Congenital Melanocytic Nevi and Neurocutaneous Melanocytosis Nevus Outreach and Department of Dermatology, University of Tübingen, Germany, May 2011
- Michael A. Howard, MD—“Incorporating Nipple-Sparing Mastectomy (NSM) Into Your Practice,” American Society of Plastic Surgeons Instructional Course, Toronto, Canada, October 2010 and September 2011
- Jeremy Warner, MD—“The Crooked Nose,” University of Wisconsin, Madison, Wis., June 2010

Educational Courses Taught

- Jeremy Warner, MD—Director, Chicago Rhinoplasty Symposium, March 2010 and March 2011

Future Goals

- Expand practices of three junior plastic surgeons
- Recruit additional pediatric plastic surgeon
- Re-establish pediatric plastic surgery teaching relationship with another Chicago academic institution
Division of Surgical Oncology

The newly established Division of Surgical Oncology is led by David J. Winchester, MD, who is internationally recognized for his expertise in breast and endocrine cancers.

New Faculty
Tricia Moo-Young, MD—Completed residency training at Washington University in St. Louis and a surgical endocrinology fellowship at Rush University Medical Center. With her recruitment, the Division now has eight faculty members and provides specialized care for patients with breast, thyroid, melanoma, sarcoma, esophageal, gastric, hepatobiliary and pancreatic cancers.

Clinical Programs
• Breast Cancer
  – Katharine Yao, MD, directs our breast surgical program, and NorthShore continues to lead Illinois as a top care provider for newly diagnosed breast cancer patients. NorthShore has been designated as one of two National Cancer Database Breast Participant Use File Alpha Sites, providing direct access to the nation’s largest breast cancer database.
  – Under the leadership of David P. Winchester, MD, our previous Chairman of Surgery, breast cancer services have been extended to Lake County.
• Endocrine Cancers—Under the leadership of Richard Prinz, MD, the endocrine surgery program now offers new minimally invasive surgical procedures, including retroperitoneal adrenalectomy, robotic thyroidectomy and minimally invasive parathyroid surgery.
• Gastroesophageal, Hepatobiliary and Pancreatic Cancers—Mark Talamonti, MD, and Marshall Baker, MD, provide nationally acclaimed care, and their expertise includes both open and laparoscopic surgery, addressing complex problems such as portal vein reconstruction and splenic preservation. A comprehensive clinical research database has been established resulting in multiple national presentations and peer-reviewed publications.
• Other Surgical Programs—The Division also specializes in the treatment of advanced melanomas, sarcomas and multidisciplinary care that includes limb-sparing surgery in patients with otherwise unresectable disease.

Selected Visiting Professorships/Invited Lectureships
• Richard Prinz, MD—“Differentiated Thyroid Cancer: What’s New?” Presented at Surgery Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, Calif., March 24, 2010
• Mark Talamonti, MD—Pancreatic Cancer Action Network Advocacy Days, Arlington, Va., June 12–14, 2011
• David J. Winchester, MD—“Treatment of Soft Tissue Sarcomas.” Presented at Annual Congress of the Chilean Chapter of the American College of Surgeons, Santiago, Chile, May 8, 2010
• David P. Winchester, MD—“The National Accreditation Program for Breast Centers: The Road to Quality Improvement.” Presented at the International Forum for Cancer Care Quality and Accreditation, Taipei, Taiwan, Sept. 17, 2011

Recent Grants Awarded
Katharine Yao, MD—“Peritumoral fat as a promoter of breast cancer progression.” Breast and Ovarian Cancer Research Award, NorthShore University HealthSystem, $50,000
Katharine Yao, MD—“MicroRNAs as novel biomarkers in breast cancer.” Breast and Ovarian Cancer Research Award, NorthShore University HealthSystem, $50,000

Drs. David J. Winchester (left), Tricia Moo-Young and Richard Prinz provide specialized surgical expertise for patients with endocrine cancers and related conditions.
John and Carol Walter Center for Urological Health Established

The Division of Urology recently received a $5 million gift from Mr. and Mrs. John Walter to establish The John and Carol Walter Center for Urological Health and also a second $5 million gift from Mr. and Mrs. Donald Rappeport, which will provide additional funding for the clinical and scientific programs associated with this Center. This 6,000-square-foot facility will be located in the new John and Carol Walter Ambulatory Care Center currently under construction at NorthShore Glenbrook Hospital and scheduled to open in March 2012. The Center will provide comprehensive multidisciplinary care to men and women with urological cancers and other urologic diseases.

New Division Chief

After several years of outstanding service, Thomas Keeler, MD, stepped down as Chief of the Division of Urology and was succeeded by Michael McGuire, MD. Dr. McGuire completed his urological residency at Northwestern and a urological oncology fellowship at Memorial Sloan-Kettering Cancer Center prior to joining NorthShore in 2009.

New Faculty

- Jeffrey Albaugh, PhD—Recruited from Northwestern Memorial Hospital in March 2011 to be Director of our new Sexual Health Clinic.
- Kristian Novakovic, MD—Recruited from University of Louisville in September 2010 to be Director of Urological Oncology.
- Sangtae Park, MD—Recruited from University of Chicago in October 2010 to be Director of Minimally Invasive and Robotic Urologic Surgery.

Clinical Programs

- Active Surveillance—NorthShore has the only IRB-approved prostate cancer active surveillance clinical trial in the region, and NorthShore recently became the coordinating center for all 15 NCI-sponsored active surveillance programs across the U.S.
- Quality of Life and Clinical Outcomes—NorthShore has the only IRB-approved clinical trial in the region examining quality of life and the impact of stress reduction on men and their spouses enrolled in our active surveillance study.
- IMPACT Study—NorthShore is participating in an international trial investigating the impact of BRCA mutations on prostate cancer risk and progression in men with a family history of BRCA-1 or BRCA-2 positive breast cancer. NorthShore is the top recruiting site in the U.S. and sixth overall internationally.

Research Programs

- Relationship of Obesity to Cancer Risk and Progression—The laboratory of Susan Crawford, DC, continues to investigate the mechanisms by which obesity promotes prostate cancer risk and progression. Dr. Crawford was recently awarded a grant from the Prostate Cancer Foundation to investigate the role of periprostatic fat in prostate cancer progression.
- Neural Stem Cell Bio Adhesive Therapy—Dr. Crawford and her team are also developing a novel cancer treatment that uses neural stem cells embedded in a bio adhesive derived from marine mollusks to eradicate residual cancer cells following surgical removal of a cancer.
- Molecular Diagnostics—Karen Kaul, MD, PhD, Director of Molecular Pathology, and her colleagues are investigating new biomarkers such as urinary PCA3 to both diagnose and determine prognosis in prostate cancer.
New Division Chief
NavYash Gupta, MD, continued to build the Division of Vascular Surgery since becoming Division Chief in 2009. Dr. Gupta completed surgical residency at St. Louis University Hospital and then a vascular surgery fellowship at the University of Chicago. Prior to joining NorthShore, Dr. Gupta was a member of the surgical faculty at the University of Pittsburgh for nine years. His special interests include minimally invasive endovascular surgery for thoracic and aortic aneurysms, carotid artery occlusive disease, peripheral vascular disease and hemodialysis access.

New Faculty
- Tina Desai, MD—Dr. Desai completed her surgical residency and vascular surgery fellowship at the University of Chicago in 1999. She served on the surgical faculty at the University of Chicago as Assistant Professor of Surgery and Director of the Endovascular Service for 10 years. Her special interests include endovascular surgery and surgical treatment of abdominal and thoracic aortic pathology, carotid artery occlusive disease, peripheral vascular disease and hemodialysis access.
- Benjamin Lind, MD—Dr. Lind completed his surgical residency and vascular surgery fellowship at Rush University Medical Center. His special interests include limb salvage and minimally invasive vascular reconstruction. Dr. Lind also serves as the Medical Director of the Wound Care Center at NorthShore Highland Park Hospital.
- Omar Morcos, MD—Dr. Morcos completed his surgical fellowship at Mt. Sinai Medical Center following his residency at the University of Illinois at Chicago Medical Center.

Clinical Growth
The Division now includes six vascular surgeons providing comprehensive vascular surgery services at all four hospitals in the NorthShore area, including minimally invasive endovascular surgery.

New Facilities
- New endovascular surgical suite opened in the operating room at Evanston Hospital.
- Division of Vascular Surgery now leads the Wound Care Center at Highland Park Hospital, allowing us to provide advanced care of wounds and vascular injuries and offering patients increased access to a multidisciplinary team for care and treatment options, including hyperbaric oxygen therapy.

Vascular laboratory services have been expanded and standardized at all four NorthShore hospitals as well as in the main outpatient office in Skokie.

Clinical Research
The Division of Vascular Surgery has been actively involved in various clinical research projects, including:
- Carotid stenting (CHOICE) trial in collaboration with the Division of Cardiology
- Magnetic resonance imaging (MRI) for evaluation of carotid artery and peripheral vascular occlusive disease, in collaboration with the Department of Radiology
- Evaluation of factors that contribute to disparities in vascular surgery care in various ethnically and economically diverse populations in the greater Chicago area

Selected Visiting Professorships/Invited Lectureships
- Joseph Caprini, MD—Served as Visiting Professor/Invited Lecturer on 50 occasions, including in Great Britain, France, Belgium, Portugal, India and Japan
- Tina Desai, MD—“Device Manufacturers and Medicine: The Fine Line Between Collaboration and Conflict of Interest.” Presented at Chicago Surgical Society, Chicago, Ill., Nov. 4, 2010
- NavYash Gupta, MD—“Whom I Would Choose for Surgical Treatment of Abdominal Aortic Aneurysm.” Presented at Society for Cardiovascular Angiography and Interventions, 33rd Annual Scientific Meeting, San Diego, Calif., May 6, 2010
Philanthropy

Fiscal year 2010–2011 has witnessed extraordinary generosity from donors whose gifts have empowered the physician-scientists of our Department to take new leadership roles in advanced research and surgical healthcare.

Responding to the priorities set out last year in the Department’s first Philanthropic Strategic Plan—with its focuses on Leadership and Program Development, Translational Research, Clinical Trials and Outcomes Research and Surgical Education—these leadership gifts attest to the skill, compassion and care of our surgeons as well as to their commitment to partnering with grateful patients to provide innovative, research-driven care.

The Department’s program in Minimally Invasive Surgery (MIS) also continues to benefit from the generous multiyear funding provided through The Grainger Foundation, which has sustained the development and refinement of new MIS and Natural Orifice Translumenal Endoscopic Surgery (NOTES) procedures under the direction of Michael Ujiki, MD. These funds have also underwritten the purchase of new simulation equipment and supported key staffing for the Department’s programs based in the NorthShore Center for Simulation and Innovation (NCSI). Grainger Foundation funds have also enhanced video conference and software capacity at NorthShore Skokie Hospital’s simulation laboratory, founded and directed by Jose Velasco, MD.

Sustaining gifts from the Blum Kovler Foundation and the Richard and Martha Melman Foundation have continued to strengthen our metabolomics research that Susan Crawford, DO, and her team are conducting through the John and Carol Walter Center for Urological Health.

When it joined NorthShore last year to become part of the NorthShore Neurological Institute (NNI), the Chicago Institute of Neurosurgery and Neuroresearch (CINN) generously transferred the assets of its own foundation to NNI, ensuring that its tradition of clinical excellence supported by its grateful patients will be continued here.

We also offer our continued gratitude to our devoted donors, the Ronald L. Chez Family and Richard Melman Family, founders of the Department’s Chair of Prostate Cancer, a gift that has brought prestige and attracted other philanthropic support to our programs.

These foundational gifts crown a long process of planning and education that we have undertaken to help our patients understand the dramatic impact they can have on improving the quality of care we offer. A wide range of unrestricted gifts to surgery programs, with many directed to the John and Carol Walter Center for Urological Health, have also added much-needed support to other research projects. These generous donations help drive a new array of cutting-edge programs and services in urologic health and support the development of new therapies in minimally invasive surgery. From affording insights into molecular medicine to supporting vital clinical trials, patient philanthropy has played an increasingly important role for our Department in an environment where both clinical revenues and government funding have steadily declined.

Lead Donors 2010–2011

Our lead donors listed below and the more than 100 others who have joined them have helped us advance our strategic agenda in patient care, surgical technology, medical education, clinical trials and translational research. To these caring donors, and to all who have chosen to help our Department make such important strides, we offer our sincerest gratitude.

Mr. and Mrs. John R. Walter
Mr. and Mrs. Donald L. Rappeport
Mr. Roy Carlson
Blum Kovler Foundation and
Mr. and Mrs. Jonathan Kovler
Mr. Ronald L. Chez
Richard and Martha Melman Foundation
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The outstanding benevolence of John and Carol Walter has launched the new John and Carol Walter Center for Urological Health at Glenbrook Hospital. Mr. and Mrs. Walter are pictured here with Michael McGuire, MD, left, and Charles Brendler, MD, right, Co-Directors of the new center. Their $5 million gift has, in turn, inspired a similarly generous gift from Donald and Joan Rappeport, who recently made a $5 million gift in support of the urologic health programs to be housed in the John and Carol Walter Center for Urological Health. These are truly transformational gifts that enable us to launch a comprehensive set of urologic health programs to meet the needs of many current and future patients.
2011 Peer-Reviewed Publications and Book Chapters

Cardiac and Thoracic Surgery


General Surgery


Neurosurgery


**Ophthalmology**


Afshar A, Hariprasad SM, Jampol L, **Sheth VS**. Use of intravitreal bevacizumab to treat macular edema in West Nile Virus chorioretinitis. *Arch Ophthalmol*. (Accepted)


**Otolaryngology**


**Plastics**


continued
2011 Peer-Reviewed Publications and Book Chapters (continued)

**Surgical Oncology**


Baker MS, Bentrem DJ, Ujiki MB, Stocker S, Talamonti MS. Adding days spent in readmission to the initial postoperative length of stay limits the perceived benefit of laparoscopic distal pancreatectomy when compared to open distal pancreatectomy. *Am J Surg*. 2011 Mar;201(3):295-9; discussion 299-300.


Urology


Vascular


Friedman RJ, Kurth AA, Schnee JM, Clemens A, Noack H, Eriksson BI, Caprini, JA. Dabigatran etexilate and concomitant use of nonsteroidal anti-inflammatory drugs or acetylsalicylic acid in patients undergoing total hip and total knee arthroplasty: no increased risk of bleeding. J Bone Joint Surg Am. (Accepted)


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