Contents

1  Overview
33  Cardiac Surgery
68  Critical Care, Trauma, and Burn
94  General and Gastrointestinal Surgery
129  Pediatric Surgery
153  Plastic Surgery
175  Surgical Oncology
193  Thoracic Surgery
207  Transplantation
230  Vascular Diseases and Surgery
Department of Surgery
Overview

The missions of the Department of Surgery are consistent with those of The Ohio State University College of Medicine. The department’s missions are the delivery of high-quality and safe patient care, the contribution to innovations in medicine through basic and translational research and clinical outcomes studies, and the education of medical students and postgraduate trainees. This report summarizes the changes and accomplishments in the department from July 1, 2010 through June 30, 2011.

Organization
The Department of Surgery comprises eight specialty divisions: Cardiac Surgery; Critical Care, Trauma, and Burn; General and Gastrointestinal Surgery; Pediatric Surgery; Surgical Oncology; Thoracic Surgery; Transplantation; and Vascular Diseases and Surgery. In addition, the Center for Minimally Invasive Surgery, a multidisciplinary organization within the department, is dedicated to developing and implementing minimally invasive technologies and procedures. Plastic and Reconstructive Surgery became a department November 1, 2010 and are included in this report during this transitional year.

Faculty
Recruitment efforts brought ten new faculty members to the department this year. The Center for Minimally Invasive Surgery made three one-year clinical faculty appointments. The Division of Cardiac Surgery added two faculty members, and the Division of Care, Trauma, and Burn added one new faculty member. The Division of General and Gastrointestinal Surgery made three one-year clinical faculty appointment. The Division of Pediatric Surgery added one faculty member, the Division of Surgical Oncology added two faculty members, and the Division of Thoracic Surgery appointed one new faculty member. A complete list of this year’s faculty appointments begins on page 7 of this report. Nearly all eligible faculty have joined the new Faculty Group Practice of the Office of Health Sciences effective July 1, 2011.
Clinical Care
The Department of Surgery provides all aspects of major surgical care. This year, the department performed 32,453 surgical procedures and received 64,267 outpatient visits. Outpatient services are available at numerous sites, including:

- The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, 300 West 10th Avenue
- Cramblett Hall Medical Clinic, 456 West 10th Avenue
- General Surgery at Knightsbridge, 4830 Knightsbridge Boulevard, Suite J
- JamesCare Comprehensive Breast Cancer Center, 1145 Olentangy River Road
- The Martha Morehouse Medical Plaza, 2050 Kenny Road
- Nationwide Children’s Hospital, 700 Children’s Drive
- The Ohio State University Medical Center, 450 West 10th Avenue
- The Ohio State University Medical Center Services, 770 Kinnear Road
- The Richard M. Ross Heart Hospital, 452 West 10th Avenue
- University Hospital East, 1492 East Broad Street

In addition we have outreach programs in vascular surgery in Bellefontaine, Bucyrus and Wooster, Ohio.

Research
Research efforts continue to focus on three major areas: wound healing, vascular biology and transplantation, and tumor biology. Additionally, we are beginning a new program in regenerative medicine under the leadership of Chandan Sen, PhD, Vice-Chair of Research.

This year, new research funding awarded through The Ohio State University Research Foundation to principal investigators in the Department of Surgery totaled more than $6.6 million. New federal funding was more than $4.8 million, or 72 percent of total funding. New non-federal funding was more than $1.8 million, or 28 percent of the total.

Education
Twenty-one residents and fellows completed their training programs this year. Three went on to community practice, eight to further training, nine to academic appointments, and one is serving at a United States Army hospital. Over two hundred medical students from the College of Medicine perform clinical rotations on our surgical services. We re-engineered our honors program in surgery, making it practical and up-to-date for our students entering careers in surgery. Twenty-one students entered surgical training this academic year.
# Department Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Time Faculty</td>
<td>83</td>
</tr>
<tr>
<td>Residents and Fellows</td>
<td>64</td>
</tr>
<tr>
<td>ACGME-Accredited Surgical Residencies</td>
<td>2</td>
</tr>
<tr>
<td>ACGME-Approved Specialty Certification Programs</td>
<td>3</td>
</tr>
<tr>
<td>Approved Specialty Fellowships</td>
<td>7</td>
</tr>
<tr>
<td>OR Procedures</td>
<td>32,453</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>64,267</td>
</tr>
<tr>
<td>Admissions</td>
<td>5,235</td>
</tr>
<tr>
<td>Patient Days</td>
<td>37,737</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>6.37</td>
</tr>
</tbody>
</table>
Department Administration

E. Christopher Ellison, MD
Chairman

Robert L. Ruberg, MD
Senior Vice Chairman for Administrative Affairs

W. Scott Melvin, MD
Vice Chairman for Academic Affairs

Mark W. Arnold, MD
Vice Chairman for Surgical Education

Chandan K. Sen, PhD
Vice Chairman for Research

Steven M. Steinberg, MD
Vice Chairman for Clinical Affairs

Jerome A. Johnson, PhD
Administrator

K. Christopher Kaiser
Chief Operating Officer, OSU Surgery, LLC
Administrative Staff

Mark Bishop
Systems Analyst, Surgery Information Systems

Mark Dickman
Director, Surgery Information Systems

Elizabeth Hanson
General Surgery Residency Manager

Megan Guth
Systems Analyst, Surgery Information Systems

K. Christopher Kaiser
Chief Operating Officer, OSU Surgery, LLC

Dennis Mathias
Publications Editor

Richard Meyers
Fiscal Associate

Anna Patterson
General Surgery Residency Coordinator

Connie Roberson
Fiscal Manager

Donna Sampsill
Administrative Assistant to the Chairman

Roxanne Shull
Research Coordinator

Lynnsay Sinclair
Student Coordinator

Renee Troyer
Executive Assistant to the Chair and Vice Dean for Clinical Affairs

Maxine Vargas
Human Resources Administrator
Division Chiefs

William B. Farrar, MD
Surgical Oncology

Jonathan I. Groner, MD
Pediatric Surgery (interim)

Mitchell L. Henry, MD
Transplantation

Robert S. D. Higgins, MD, MSHA
Cardiac Surgery

W. Scott Melvin, MD
General and Gastrointestinal Surgery

Michael J. Miller, MD
Plastic Surgery

Steven M. Steinberg, MD
Critical Care, Trauma, and Burn

Patrick Ross, Jr, MD, PhD
Thoracic Surgery

Patrick S. Vaccaro, MD
Vascular Diseases and Surgery
Faculty Appointments

Sherif R. Abdel-Misih, MD
Assistant Professor of Clinical Surgery, Division of Surgical Oncology
BA: Franklin & Marshall College, Lancaster, Pa., 1997
MD: Jefferson Medical College, Philadelphia, Pa., 2003
Specialty Training: Master of medical science, Hahnemann University, Philadelphia, Pa., 1999; residency in general surgery, Cleveland Clinic, Cleveland, Oh., 2008; fellowship in surgical oncology, The Ohio State University, 2010
Appointment: 2010
Specialty Interests: Minimally invasive surgical oncology, peritoneal carcinomatosis, hepato-pancreatico-biliary cancers, gastrointestinal oncology, sarcoma, melanoma, endocrine cancer
Research Interests: Peritoneal carcinomatosis, pancreatic cancer

Vincent Daniel, MD
Assistant Professor of Clinical Surgery, Division of Thoracic Surgery
BA: Vanderbilt University, Nashville, Tn., 1994
MD: University of Tennessee, Memphis, Tn., 2001
Specialty Training: Residency in general surgery, The Johns Hopkins Hospital, Baltimore, Md.; residency in cardiothoracic surgery, Massachusetts General Hospital, Boston, Ma.
Appointment: 2011
Specialty Interests: Lung cancer, esophageal cancer, tracheal surgery, mediastinal tumors, esophageal motility disorders, minimally invasive thoracic surgery
Research Interests: Molecular markers of lung and esophageal cancer, clinical trials for lung and esophageal cancer, animal models of lung

Daniel S. Eiferman, MD
Assistant Professor of Surgery; Assistant Program Director of Surgical Critical Care Fellowship
BA: Northwestern University, Evanston, Ill., 1999
MD: University of Kentucky, Lexington, Ky., 2003
Specialty Training: Residency in general surgery, Rush University Medical Center, Chicago, Ill., 2009; research fellowship in cardiac surgery, Emory University, Atlanta, Ga., 2006; thoracic fellowship, Emory University, Atlanta, Ga., 2009; fellowship in surgical critical care, The Ohio State University, 2010
Appointment: 2010
Specialty Interests: Trauma, acute care surgery, surgical critical care
Research Interests: Critical care outcomes.
Robert S. D. Higgins, MD, MSHA
John H. and Mildred C. Lumley Medical Research Chair; Professor of Surgery; Chief, Division of Cardiac Surgery; Director, Comprehensive Transplant Center
**B.S.**: Dartmouth College, Hanover, NH, 1981
**M.D.**: Yale University School of Medicine, New Haven, Ct., 1985
**Specialty Training**: General surgery residency, Hospitals of the University Health Center, Pittsburgh, Pa.; Cardiothoracic surgery fellowship, Yale University School of Medicine, New Haven, Ct.
**Appointment**: 2010
**Specialty Interests**: Transplantation and mechanical circulatory support, minimally invasive cardiac surgery
**Research Interest**: Outcome assessment for heart failure

Ahmet Kilic, MD
Assistant Professor of Surgery
**BS**: The Pennsylvania State University, University Park, Pa., 1998
**MD**: Virginia Commonwealth University, Richmond, Va., 2002
**Specialty Training**: Internship and residency in general surgery; University of Maryland, Baltimore, Md.; fellowship in cardiothoracic surgery, University of Virginia, Charlottesville, Va.
**Appointment**: 2011
**Specialty Interests**: Aortic surgery, heart transplantation, lung transplantation, heart failure
**Research Interests**: Aortic pathology, heart and lung transplantation; heart failure

John C. Linn, MD
Clinical Assistant Professor of Surgery, Division of General and Gastrointestinal Surgery
**BS**: University of Notre Dame, Notre Dame, In., 2001
**MD**: Medical College of Wisconsin, Milwaukee, Wi., 2005
**Specialty Training**: Residency in general surgery, McGaw Medical Center of Northwestern University, Chicago, Ill.
**Appointment**: 2010
**Specialty Interests**: Minimally invasive surgery, advanced laparoscopic surgery
**Research Interest**: Laparoscopic surgery
Patrick I. McConnell, MD
Assistant Professor of Surgery
BA: Creighton University, Omaha, Ne., 1994
MD: University of Nebraska Medical Center, Omaha, NE, 1999
Specialty Training: General surgery residency, University of Utah Hospitals, Salt Lake City, Ut.; fellowship in cardiovascular surgery, The Ohio State University Medical Center, Columbus, Oh.; fellowship in congenital heart surgery, Nationwide Children’s Hospital, Columbus, Oh., 2010
Appointment: 2010
Specialty Interests: Heart transplantation, adult cardiac surgery, coronary artery bypass surgery, mechanical circulatory support.

R. Lawrence Moss, MD
Professor of Surgery, Division of Pediatric Surgery; Surgeon-in-Chief, Nationwide Children Hospital
BA: Stanford University, Palo Alto, Ca.
MD: Medical College of Ohio, Toledo, Oh.
Specialty Training: Virginia Mason Medical School, Seattle, Wa.; Children’s Memorial Hospital, Chicago, Il.
Appointment: 2010
Specialty Interests: Separating conjoined twins, surgical repair of complex pelvic malformations, minimally invasive pediatric surgery, extracorporeal membrane oxygenation (ECMO), infant life-support systems
Research Interests: Necrotizing enterocolitis, evidence-based surgery, database development, analysis of non-randomized data in surgery

Sabrena Noria, MD, PhD
Clinical Assistant Professor of Surgery, Division of General and Gastrointestinal Surgery
BS: University of Toronto, Toronto, Ontario, Canada, 1994
PhD: University of Toronto, Toronto, Ontario, Canada, 2001
MD: University of Toronto, Toronto, Ontario, Canada, 2005
Specialty Training: Residency in general surgery, St. Michael’s Hospital, Toronto, Ontario, Canada; residency in general surgery, Toronto General Hospital, Toronto, Ontario, Canada
Appointment: 2009
Specialty Interests: Thoracic surgical oncology, esophageal cancer, minimally invasive thoracic surgery
Research Interests: Minimally invasive surgery
Previous Appointment: Vascular remodeling, cellular biology
Alicia M. Terando, MD
Assistant Professor of Surgery, Clinical, Division of Surgical Oncology
BS: University of Virginia, Charlottesville, Va., 1994
MD: Medical College of Pennsylvania, Philadelphia, Pa., 1998
Specialty Training: Fellowship in research, University of Michigan, Ann Arbor, Mi., 2004; residency in general surgery, University of Michigan, Ann Arbor, Mi., 2006; fellowship in surgical oncology, John Wayne Cancer Institute, Santa Monica, Ca., 2009
Appointment: 2010
Specialty Interest: Surgical and multimodal immunotherapy for high-risk/metastatic melanoma
Research Interests: Tissue culture, flow cytometry, murine experimental techniques

Joanne Trgovcich, PhD
Research Assistant Professor
BS: Purdue University, West Lafayette, In., 1989
PhD: University of North Carolina, Chapel Hill, NC, 1996
Specialty Training: Post-doctoral research in microbiology and immunology, University of Rijeka, Croatia, 1998; post-doctoral research in pathology, molecular genetics, cellular biology, University of Chicago, Chicago, Il., 2001
Appointment: 2011
Research Interests: Molecular genetics, cellular biology, immunology

Bradley R. Zagol, MD
Clinical Assistant Professor of Surgery, Division of General and Gastrointestinal Surgery
BS: United States Military Academy, West Point, N.Y., 1998
MD: Temple University of Medicine, Philadelphia, PA, 2002
Specialty Training: Residency in general surgery, Walter Reed Army Medical Center, Washington, D.C.
Appointed: 2010
Specialty Interests: Minimally invasive surgery and advanced endoscopy
Research Interests: Minimally invasive surgery, advanced endoscopy, endoscopic retrograde cholangiopancreatography
New Research Funding

During fiscal year 2010–2011, new research funding awarded through The Ohio State University Research Foundation to principal investigators in the Department of Surgery totaled more than $6.6 million.

New federal funding was more than $4.8 million, or 72 percent of total funding. New non-federal funding was more than $1.8 million, or 28 percent of the total.

<table>
<thead>
<tr>
<th>Sources</th>
<th>Amounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>$4,815,884</td>
</tr>
<tr>
<td>Industry</td>
<td>$1,388,529</td>
</tr>
<tr>
<td>Other Non-Federal</td>
<td>$459,204</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td><strong>$6,663,617</strong></td>
</tr>
</tbody>
</table>

Sources of New Research Funding

- Federal: 72%
- Industry: 21%
- Other Non-Federal: 7%
Graduate Programs in Surgery

The surgical residency programs at The Ohio State University Medical Center share a common goal: to provide an environment conducive to learning, in which physicians prepare to function as well-qualified, independent specialists in surgery.

This year, 64 residents and fellows participated in the department’s 12 residency programs, which consist of two residencies accredited by the Accreditation Council for Graduate Medical Education (ACGME), three ACGME-approved specialty certification programs, and seven approved specialty fellowships. These programs provide training in cardiothoracic surgery, general surgery, minimally invasive surgery, advanced endoscopic surgery, pediatric surgery, surgical critical care, surgical oncology, transplantation, and vascular surgery.

Surgical residents at Ohio State are dedicated to learning and teaching advanced surgical techniques and procedures, and assume a major responsibility for the clinical education of medical students. The integrated and affiliated institutions of the program provide clinical resources for graduate and undergraduate surgical education. The Ohio State University Medical Center and the Department of Surgery host a variety of forums and seminars, where clinicians and researchers share their expertise and advance the profession.

Research is a vital component of the Department of Surgery’s mission and an integral element of its training programs. Research efforts are focused on key areas of interest that promise to yield significant results in the understanding of disease and in the improvement of clinical care. The Department of Surgery’s Office of Surgical Research promotes interdisciplinary research activity and the integration of clinical and basic science research. The Department’s stature and the reputation of its researchers and clinicians enable it to garner significant funding from private industry and from federal sources, such as the National Institutes of Health.
Residency and Fellowship Program Graduates

Twenty-one residents and fellows completed their training programs this year. Three went on to community practice, eight to further training, nine to academic appointments, and one is serving at a United States Army hospital.

Ana Alzuhaili, MD
Dr. Alzuhaili completed the fellowship in transplantation and began a trauma fellowship at the Hurley Medical Center, in Flint, Michigan.

David Arrese, MD
Dr. Arrese completed the fellowship in surgical oncology and began practice as a surgical oncologist at Riverside Methodist Hospital in Columbus, Ohio.

Sergio A. Carrillo, MD
Dr. Carrillo completed the fellowship in cardiothoracic surgery and is pursuing additional training in congenital heart surgery.

Ravi J. Chokshi, MD
Dr. Chokshi completed the fellowship in surgical oncology and began an appointment as assistant professor, Division of Surgical Oncology, University of Medicine and Dentistry of New Jersey, in Newark, New Jersey.

Amy L. Collins, MD, MS
Dr. Collins completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Andrew O. Crockett, MD
Dr. Crockett completed the residency in general surgery and began an appointment as assistant professor in critical care, Department of Surgery, Dartmouth Medical School, in Hanover, New Hampshire.

H. Teresa “Tracy” Davido, MD
Dr. Davido completed the residency in general surgery and began a fellowship in acute care surgery and an appointment as clinical assistant professor of surgery, Division of Critical Care, Trauma and Burn, at Ohio State.

Jeffrey L. Eakin, MD
Dr. Eakin completed the residency in general surgery and began a fellowship in minimally invasive surgery and an appointment as assistant professor of surgery, Division of General and Gastrointestinal Surgery, at Ohio State.

Meghan R. Forster, MD, MS
Dr. Forster completed the residency in general surgery and began a fellowship in surgical oncology at the H. Lee Moffitt Cancer Center, University of South Florida, in Tampa Florida.
Ioannis S. Hatzaras, MD, MPH
Dr. Hatzaras completed the residency in general surgery and began a fellowship in surgical oncology at Johns Hopkins Hospital, in Baltimore, Maryland.

John G. Linn, MD
Dr. Linn completed the fellowship in minimally invasive surgery and began practice as staff surgeon at the NorthShore University Health System and began an appointment as clinical assistant professor at the University of Chicago, Evanston, Illinois.

Maria E. Litzendorf, MD
Dr. Litzendorf completed the fellowship in vascular surgery and began an appointment as assistant professor, Division of Vascular Diseases and Surgery, at Ohio State.

Sabrena F. Noria, MD
Dr. Noria completed the fellowship in minimally invasive surgery and has accepted an appointment at Tulane University in New Orleans, Louisiana.

Vanessa A. M. Olcese, MD, PhD
Dr. Olcese completed the fellowship in surgical critical care and began a fellowship in neurocritical care at Ohio State.

Thomas A. Pham, MD, MS
Dr. Pham completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Angelina Postoev, MD
Dr. Postoev completed the fellowship in surgical critical care and entered private practice in Atlanta, Georgia.

Ricardo O. Quarrie, MD, MS
Dr. Quarrie completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

C. Jason Rousseau, DO
Dr. Rousseau completed the fellowship in cardiothoracic surgery and entered private practice at Foothills Cardiothoracic, Spartanburg Regional Medical Center, in Spartanburg, South Carolina.

Sarah Beth Russell, MD
Dr. Russell completed the fellowship in surgical critical care and began an appointment as assistant professor-clinical, Critical Care Medicine, Department of Anesthesiology, at Ohio State.
David E. Skarda, MD
Dr. Skarda completed the fellowship in pediatric surgery and began an appointment as assistant professor of surgery and adjunct professor of pediatrics at the Primary Children’s Medical Center and the University of Utah School of Medicine in Salt Lake City, Utah.

Bradley R. Zagol, MD
Dr. Zagol completed the fellowship in advanced therapeutic endoscopy and gastrointestinal surgery and began serving as staff surgeon, Womack Army Medical Center, Fort Bragg, North Carolina.
Annual Surgery Awards Banquet

Outstanding faculty and housestaff were honored along with the 2010–2011 graduates of the Department of Surgery’s training programs on June 11 at the Department’s annual Graduation & Awards Banquet.

Dr. Jeffrey L. Eakin, chief resident in general surgery, was named Resident of the Year by the Surgery faculty.

Dr. Justin T. Huntington was named Intern of the Year by the Surgery faculty.

Carey A. McCord, RN, was named Surgical Nurse of the Year by the chief residents in general surgery.

Teaching Awards

Dr. Jeffrey L. Eakin, chief resident in general surgery, was chosen by the medical students to receive the Resident Teaching Award.

Dr. David E. Lindsey, assistant professor of clinical surgery in the Division of Critical Care, Trauma and Burn, was selected by the medical students to receive the Michael J. Walker, M.D., Faculty Teaching Award.

Dr. David E. Lindsey assistant professor of clinical surgery in the Division of Critical Care, Trauma and Burn, was chosen by Department residents and fellows to receive a Faculty Teaching Award.

Dr. John G. Linn, fellow in minimally invasive surgery, was selected by the general surgery residents to receive a Fellow Teaching Award.

Dr. W. Daniel Traetow, assistant professor - clinical, Department of Anesthesiology, was selected by the chief residents in general surgery to receive the John L. Robinson Award, for outstanding teaching by faculty or staff from another department.

Research Awards

Six trainees received awards for outstanding research presentations made at the Department of Surgery’s 16th Annual Research Conference held June 10 at The Ohio State University Medical Center.

Dr. Jon Henry, a general surgery resident, received the first-place award for the best research presentation, titled “miR-199a-3p Targets CD 44 and Reduces Proliferation of CD44 Positive Hepatocellular Carcinoma Cell Lines.”

Dr. Thomas Pham, a general surgery resident, tied for the second-place award for his research presentation, titled “Cytotoxic CD8+ T Cells Utilize FasL and Perforin to Dowregulate Post-Transplant Allobantibody Production.”
**Dr. Amy Collins**, a general surgery resident, tied for the second-place award for her research presentation, titled “Pancreatic Stellate Cells Induce Overexpression of MicroRNA-21 and MicroRNA-210 in Pancreatic Cancer Cells in Hypoxia.”

**Dr. Iyore James**, a general surgery resident, tied for the third-place award for her research presentation, titled “Heparin-Binding EGF-Like Growth Factor Preserves Gut Barrier Function by Blocking Neutrophil-Endothelial Cell Adhesion After Hemorrhagic Shock and Resuscitation in Mice.”

**Dr. Ricardo Quarrie**, a general surgery resident, tied for the third-place award for his research presentation, titled “Mitochondrial Uncoupling by Increased Proton Leak is Not a Mechanism of Decreasing Reactive Oxygen Species Production After Ischemia-Reperfusion.”

**Amitava Das**, a graduate student, received the award for the best poster presentation. His poster was titled “Engulfment of Apoptotic Cells Induces miR-21 Expression and Switches Human Macrophages from a Pro-Inflammatory to Anti-Inflammatory Phenotype.”

**Medical Student Awards**

Department of Surgery faculty honored five senior medical students for exceptional performance and dedication to surgery.

**Matthew C. Henn** received the Barton Williams Graduation Award, a merit scholarship for a graduating fourth-year student in the College of Medicine who intends to complete a surgical residency.

**Kara M. Keplinger** received the Zollinger Award in Surgery.

**Nelson A. Royall** received the Jonasson Award in Surgery.

**Robert A. Simon** received the Carey Award in Surgery.

**Valerie A. Wood** received the Ferguson Award in Surgery.
Recognitions

**Dr. Paul Beery, II**, assistant professor of surgery, Division of Critical Care, Trauma and Burn, passed the neurocritical care certification exam.

**Dr. Ginny L. Bumgardner**, professor of surgery, Division of Transplantation, was appointed chair, American Society of Transplant Surgeons Awards Committee.

**Dr. Yuk Cheung Chan**, post-doctoral researcher, Department of Surgery, was selected as 1st place during the Post-Doctoral Researcher poster competition, and awarded a certificate in recognition of outstanding achievement for his presentation “Hypoxia-Sensitive Mir-200b Regulates Angiogenic Response of Endothelial Cells by Targeting Ets-1”, at the 10th Annual Dorothy M. Davis Heart & Lung Research Institute Research Day, Columbus, OH, October 12, 2010.

**Dr. Charles Cook**, associate professor of surgery, Division of Critical Care, Trauma and Burn, and his manuscript, *Tree stands, not guns, are the Midwestern hunter’s most dangerous weapon* were featured in the Nation section of the November 4, 2010 issue of *USA Today*. Dr. Cook was subsequently quoted and the *USA Today* article was recounted across the nation by more than 25 sports magazines, on-line journals, and newspapers including the *Los Angeles Times*. Dr. Cook was also interviewed regarding the conclusions of his study by several radio stations.

**Dr. Charles H. Cook** was awarded the Division of Wildlife Award by the Ohio Department of Natural Resources in February 2011 for his work in raising hunter safety awareness.

**Dr. Daniel S. Eiferman**, assistant professor of surgery, Division of Critical Care, Trauma and Burn, has passed the critical care board examinations.

**Dr. Daniel S. Eiferman**, assistant professor of surgery, Division of Critical Care, Trauma, and Burn, has successfully passed the surgical critical care board examinations, October 2010.

**Dr. Daniel S. Eiferman**, assistant professor of surgery, Division of Critical Care, Trauma and Burn, was awarded the OSU Department of Emergency Medicine Outstanding Contribution Award on June 17, 2011 at The Ohio State University, Columbus OH.

**Dr. David Evan** was awarded First Place – Clinical Science at the Annual Resident Research Forum, Ohio Chapter, American College of Surgeons Meeting, Columbus, Ohio, May 7, 2010.

**Dr. William B. Farrar**, The Dr. Arthur G. and Mildred C. James Professor in Surgical Oncology and chief, Division of Surgical Oncology, has been selected as director of the new JamesCare Comprehensive Breast Center.
International post doctoral fellow, Dr. Kasturi Ganesh, and her research work were recently recognized by the OSU Office of Research at the 5th Annual Scholar Research Exposition, held in November. Drs. Savita Khanna, Sabyasachi Biswas and Cyrus Chan attended the event as her mentor & co-workers. Her poster was displayed outside of University President’s office for one month. The exposition showcases the world-class research conducted by the more than 1,600 international visiting scholars at The Ohio State University.

Dr. Alan Harzman, assistant professor of surgery-clinical, Division of General and Gastrointestinal Surgery, was initiated as a Fellow of the American College of Surgeons at the American College of Surgeons 96th Annual Clinical Congress, Washington, DC, October 3-7, 2010.

The Ohio State University Hospital attending medical staff members recently elected Dr. Alan E. Harzman, assistant professor of clinical surgery, Division of General and Gastrointestinal Surgery as Member At Large. Dr. Harzman will serve as a voting member of the Medical Staff Administrative Committee for a two-year term, beginning July 1, 2011.

Dr. Jon Henry was awarded the CCTS Best Abstract Award in Clinical and Translational Science at the Pharmacy Research Day held on May 18, 2011. The title of his abstract was miR-199a-3p Targets CD44 and Reduces Proliferation of CD44 Positive Hepatocellular Carcinoma Cell Lines.

Abdulfatah Issak, second year medical student, was awarded a Medical Student Research Initiation Grant by the Research Foundation of the American Society of Colon and Rectal Surgeons for his summer project entitled Working Against the Camera. The study evaluates trainee and attending performance of laparoscopic tasks when the camera is looking sideways or backwards with respect to the surgeon. This trial builds on principal investigator Dr. Alan Harzman’s previous work on learning laparoscopic tasks.

Carla Justiniano, a first year medical student was awarded a COM Medical Student Research Scholarship (MDSRS) funded by the Bennett Scholarship. She will be involved in a research project entitled: “Comorbidity-Polypharmacy Score: A Triage Tool for Determining Post-Emergency Department Destination Among Older Trauma Patients.” Dr. Stanislaw Stawicki will serve as project mentor.

Dr. Pratibha Kamble, post-doctoral researcher, Department of Surgery, was awarded for her presentation “Aspirin Regulates Sirtuin Gene Expression; Potential Role in ATP Conservation and Cellular Energy Status” at the Post-Doctoral Researcher Poster Competition, at the 10th Annual Dorothy M. Davis Heart & Lung Research Institute Research Day, Columbus, OH, October 12, 2010.

Dennis Kiser and Dr. Bhagwan Satiani, Member First Time Presenter Award. Society for Vascular Ultrasound Annual Conference in Boston, MA, June 11, 2010.

Dr. David Lindsey, assistant professor of surgery, Division of Critical Care. Trauma and Burn, was accepted into the 2011-12 Ethicon Endo-Surgery Surgical Educational Research Fellowship (SERF) program.
Dr. David Lindsey, assistant professor of surgery, Division of Critical Care, Trauma and Burn, was nominated for the Leonard Tow Humanism Award.

Dr. David E. Lindsey, assistant professor of clinical surgery, Division of Critical Care, Trauma and Burn, was awarded the Excellence in Teaching Award on June 2, 2011 at the OSU College of Medicine’s award ceremony. The event was held at the Ohio Union Ballroom. Dr. Lindsey was also awarded the Medical Student Outstanding Teaching Award at the annual Medical Students Award ceremony, held on June 11, 2011, and he was awarded the Resident Outstanding Teaching Award at the annual Department of Surgery Awards Banquet, held on June 11, 2011.

Dr. W. Scott Melvin, professor of surgery and chief, Division of General and Gastrointestinal Surgery, has been named editor-in-chief of *Surgical Laparoscopy & Percutaneous Techniques*.

The Ohio State University Medical Center has partnered with LifeWings’ Patient Safety Improvement Program, to utilize the best practices of high reliability organizations. Crew resource management (CRM) is an integrated series of on-site training sessions for leadership, physicians and staff, along with customized, site-built safety tools (e.g., checklists, communication scripts, standard protocols) to hardwire a permanent change in the workplace culture. The following Department of Surgery faculty have been recognized as Crew Resource Management Champions for their contributions to clinical quality, safety and service; Dr. Steven Steinberg and Dr. Daniel Eiferman, Critical Care, Trauma and Burn, Dr. Jeff Hazey, General and Gastrointestinal Surgery, Dr. Michael Firstenberg and Dr. Chittoor Sai-Sudhakar, Cardiac Surgery, and Dr. Michael Go, Vascular Diseases and Surgery.

Dr. Brian Porshinsky, assistant professor of surgery, completed a proof of concept study on his Novel Carpal Tunnel Release Device; November, 2009.

Dr. Brian Porshinsky, assistant professor of surgery, has filed a provisional patent regarding his Novel Carpal Tunnel Release Device; May, 2010.

Dr. Bhagwan Satiani, professor of surgery, Division of Vascular Surgery was elected President-Elect of the South Asian American Vascular Society (SAAVS), Boston, MA, June 9th, 2010.

Dr. Bhagwan Satiani, professor of surgery, Division of Vascular Diseases and Surgery, was elected president of the South Asian American Vascular Society for 2011-2012 at its annual meeting on June 16 in Chicago. The society was formed to maintain the identity of members from South Asia to promote the dissemination of knowledge and provide a forum for scientific, educational, cultural, charitable and social interaction among the members.

Dr. Chandan K. Sen, professor of surgery and vice chair of research, the Department of Surgery, and associate dean for Translational and Applied Research in The Ohio State University College of Medicine, has been selected as chair of the Surgery, Anesthesiology and Trauma Study Section, Center for Scientific Review of the National Institutes of Health (NIH).
Dr. Steven M. Steinberg, professor of surgery; chief, Division of Critical Care, Trauma, and Burn; and vice chairman for Clinical Affairs, Department of Surgery was selected as an American College of Surgeons (ACS)/American Surgical Association Health Policy Scholar for 2010.

Dr. Stanislaw P. Stawicki, assistant professor of surgery, Division of Critical Care, Trauma and Burn, was appointed as a Chief Editor to the International Journal of Critical Illness & Injury Science, the official publication of the International Network of Critical Illness and Injury Trial Experts. The journal promotes translational research in critical care medicine and science.

Dr. Stanislaw Stawicki was appointed to the Formulary Committee, Subcommittee of Pharmacy, Therapeutics & Drug Utilization Committee by the Chief Medical Officer for The Ohio State University Medical Center, Hagop Mekhjian, M.D.

Dr. Stanislaw Stawicki accepted an invitation to become a member of the Editorial Board of the World Journal of Critical Care Medicine.

Dr. Stanislaw P. Stawicki, assistant professor of surgery, Division of Critical Care, Trauma and Burn, was appointed as a member of The Ohio State University Human Subjects (biomedical) Institutional Review Board.

Dr. Alok Sutradhar, post-doctoral researcher, Division of Plastic Surgery was recognized in the July 15, 2010 issue of The Economist, in the article “The new face of surgery – A high-tech engineering technique offers promise to reconstructive surgery.” The article was a review of Dr. Sutradhar’s study, “Topological optimization for designing patient-specific large craniofacial segmental bone replacements.” The study explores the use of 3D computer modeling and aerospace technology to design patient-specific structures for facial reconstruction.

Dr. Anne Taylor, associate professor of surgery, Division of Plastic Surgery was nominated to American Society of Plastic Surgeons (ASPS) Board of Directors, term beginning October 2010.

Dr. Patrick S. Vaccaro, chief, Division of Vascular Diseases and Surgery, has been named as the Luther M. Keith Professor of Surgery.

Dr. Melissa L. Whitmill, assistant professor of surgery, Division of Critical Care, Trauma and Burn, passed the neurocritical care certification exam.
In the news

The *Best Doctors in America, 2011-2012* database, surgery category for central Ohio, selected OSU Department of Surgery faculty exclusively. Listed as the best are Dr. Kenneth Andreoni, Dr. Ginny Bumgardner, Dr. Elmahdi Elkhammas, Dr. E. Christopher Ellison, Dr. Mitchell Henry, Dr. W. Scott Melvin, Dr. Peter Muscarella, Dr. Bradley Needleman, Dr. Ronald Pelletier, Dr. Amer Rajab, and Dr. Steven Steinberg. Also listed by surgical specialty are Dr. Mark Arnold, colon and rectal surgery; Dr. Mark Galantowicz and Dr. Alistair Philips, pediatric cardiac surgery; Dr. Gail Besner, Dr. Denis King, and Dr. Steven Teich, pediatric surgery; Dr. William Carson, Dr. William Farrar, and Dr. William Kraybill, surgical oncology; and Dr. Patrick Ross, thoracic surgery. The *Best Doctors in America* database is compiled by Best Doctors, Inc., and includes over 40,000 doctors in more than 40 medical specialties. Only the top one percent of the nation’s physicians was selected as America’s best.

Kenneth Andreoni, MD, associate professor of surgery, Division of Transplant Surgery appeared as a guest commentator on the WBUR/NPR radio program *On Point with Tom Ashbrook*, discussing the topic of organ allocation for transplantation. The program aired March 1, 2011. Dr. Andreoni, who chairs the United Network for Organ Sharing (UNOS) kidney committee was also invited to comment on the topic of organ allocation in an article in the March 5, 2011 edition of the *Pittsburgh Post-Gazette*.

Dr. William Farrar, professor of surgery, Division of Surgical Oncology and director of the JamesCare Comprehensive Breast Center at The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, is quoted in the June 2011 issue of *Columbus C.E.O. Magazine* article “Life after cancer.” Dr. Farrar was quoted as saying “It (the JamesCare Center) gives us the ability to treat breast cancer and promote breast health in one building. We have everything - prevention, medical oncology, plastic surgery, breast implants, physical therapy, psychologists, survivorship groups, genetic counseling and MRIs.”

Dr. Gayle M. Gordillo, associate professor of surgery, Division of Plastic Surgery, has been accepted into the Executive Leadership in Academic Medicine (ELAM) fellowship program of the Institute for Women’s Health and Leadership at Drexel University College of Medicine, Philadelphia, Pennsylvania. The ELAM program is an intensive one-year program of leadership training with extensive coaching, networking and mentoring opportunities aimed at expanding the national pool of qualified women candidates for leadership in academic medicine, dentistry and public health.

Dr. Mitchell Henry, professor of surgery and chief of the Division of Transplant Surgery, was interviewed for a story on two central Ohio brothers involved in a living-related organ donation. The story was broadcast by WCMH-TV News on the evening of Tuesday, April 19. The older brother donated one of his healthy kidneys to his brother who suffered from acute renal failure. The surgery took place the that Tuesday at The Ohio State University Medical Center. According to Dr. Henry living organ donation is increasing, and has a high success rate. Currently more than 2,500 patients are waiting for a kidney donation in Ohio.
During the Friday, March 4 morning rush hour, a four-car accident occurred on I-71 North near Frank Road in Columbus, Ohio. When **Miranda Jackson**, a certified trauma nurse practitioner from Ohio State’s Division of Trauma and Critical Care, encountered the accident on her way to work, she pulled over to help. Miranda told the deputy sheriff at the scene she was a trauma nurse from OSU and began improvising a temporary pelvic binder to stabilize an injured driver. That driver was rushed to Ohio State for treatment of his injuries – he survived. “I did what I’ve been trained to do,” Miranda said. Her story appeared on that Friday evening’s news broadcast of WBNS-10TV, the local CBS affiliate.

**Dr. W. Scott Melvin**, professor of surgery; chief, Division of General and Gastrointestinal Surgery; director, Center for Minimally Invasive Surgery, and Dr. Yun Xia, associate professor, Anesthesiology, were awarded a Gateway Research Grant in the amount of $10,000 for the study “Gateway to Minimally Invasive Surgical Education”. The study is in partnership with Guangxi Medical University, Nanning, China, and the Chinese Society of Laparo-Endoscopic Surgery (CSLES). The grant is provided by the OSU Office of International Affairs.

A surgical team, led by **Dr. Vimal Narula**, assistant professor of clinical surgery, Division of General and Gastrointestinal Surgery, became one of the first in the nation to remove a patient’s gall bladder transvaginally. The advanced surgery technique decreases pain, reduces the risk of infection or a subsequent hernia, and leaves no scar. The first transvaginal gallbladder removal at Ohio State shows the potential of natural orifice translumenal endoscopic surgery (NOTES). “OSU Medical Center is one of the few programs in the country with a leading role in a novel study to examine the use of natural orifice surgery as another emerging technology within the field of minimally invasive therapy,” said Narula. The trial is sponsored by the Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR).

**Dr. Amer Rajab**, associate professor of surgery, Division of Transplant Surgery, performed a unique medical procedure that is expected to eliminate the patient’s need to take insulin for controlling type 1 diabetes. The pancreatic islet cell transplant is a first for The Ohio State University Medical Center, one of about a dozen medical centers in the country with a team in place to perform the transplants that improve the quality of life for people with diabetes. “Ohio State has been preparing for the highly specialized procedure for more than seven years,” says Dr. Amer Rajab. “Being able to offer such advanced treatment to our patients is a dream come true after so many years of hard work to lay the foundation for this program.”

**Dr. Bhagwan Satiani**, professor of surgery, Division of Vascular Diseases and Surgery, appeared on the Global Columbus TV show, a live presentation broadcast Wednesday, July 6, from 7:00pm to 8:00pm. Dr. Satiani discussed domestic violence, representing www.asharayofhope.org.

**Dr. Chandan Sen**, professor and vice chair for research in Ohio State’s Department of Surgery, along with other clinical and translational researchers from the Comprehensive Wound Care Center and the Dorothy M. Davis Heart and Lung Research Institute at Ohio State, are recipients of a United States Department of Defense, two-year, $1.4 million grant to be used to study the benefits of using brown algae extracted from seaweed and giant kelp, specifically for the treatment of burn wounds.
Richard Sobieray, who is currently serving as chief financial officer of OSU Physicians (OSUP) and associate executive director of the new OSU Faculty Group Practice, has accepted the additional responsibilities of chief financial officer for the Specialty Care Network and Ambulatory Services. With the addition of these roles, Rich will have financial oversight for all of Ohio State’s physician organizations as well as Ambulatory Services, which will greatly aid OSUMC’s plans for further growth and coordination among these entities in the future.

Dr. Steven Steinberg, professor of surgery and chief, Division of Critical Care, Trauma and Burn; and vice chairman for Clinical Affairs, Department of Surgery was interviewed on July 23, 2010 by WSYX-TV ABC 6 News about the recent spike in violent activity throughout central Ohio which has landed several victims in the emergency department. During the interview Dr. Steinberg discussed the physical and emotional effects of gunshot injuries.

Dr. Steven Steinberg and his wife, Beth Steinberg, were honored with the 2011 STAR Award at the February 24 reception held at the historic Lincoln Theatre, Columbus, Ohio. The reception, hosted by OSU president Dr. E. Gordon Gee and OSUMC CEO Dr. Steven Gabbe, is part of the Wex-STAR Benefit fundraising event to support The Ohio State University Stress, Trauma, and Resilience (STAR) Program. The event is co-sponsored by the OSU Wexner Center for the Arts. The STAR program provides education, treatment, and research on behalf of trauma survivors and their families.
Distinguished Visiting Professors

**Dr. Milton Armstrong**
Dr. Milton Armstrong, Professor of Surgery and Chief, Division of Plastic Surgery, Medical University of South Carolina, Keynote Speaker, 2010 Ruberg Symposium, September 9 & 10, 2010

**Dr. Michael L. Bentz**
Dr. Michael L. Bentz, Professor and Chairman, Division of Plastic and Reconstructive Surgery, University of Wisconsin School of Medicine, presented “Total Nasal Reconstruction”, “Scalp and Skull Reconstruction” and “Case Vignettes”, March 10 & 11, 2011

**Dr. Geoffrey N. Box**
Dr. Geoffrey N. Box, Assistant Professor of Urology, The Ohio State University College of Medicine, presented “Prostate Cancer Update 2011”, March 17, 2011.

**Dr. Randall S. Burd**
Dr. Randall S. Burd, Associate Professor of Surgery and Pediatrics, George Washington University School of Medicine and Health Sciences, Visiting Professor in Critical Care, “Improving the Care of the Injured Child in a Prehospital and Emergency Department Setting”, November 17-18, 2010.

**Dr. Larry Carey**
Dr. Larry Carey, Emeritus Professor of Surgery and former chair of the Department of Surgery; Associate Chief of Staff for Education at University of South Florida. “How it Started and How it Went”, William L. Smead, MD Symposium, May 21, 2011.

**Dr. Ellen W. Clayton**
Dr. Ellen W. Clayton, Rosalind E. Franklin Professor of Genetics and Health Policy, director of the Center for Biomedical Ethics and Society, professor of law, and professor of pediatrics at Vanderbilt University, presented “Dealing with Genomics in the Clinic”, September 30, 2010.

**Dr. Daniel G. Coit**
Dr. Daniel G. Coit, Professor of Surgery, Weill-Cornell Medical School, Attending Surgeon at Memorial Sloan-Kettering Cancer Center and Co-leader of the Melanoma Disease Management Team at the Memorial Sloan-Kettering Cancer Center, presented “Surgical Management of Malignant Melanoma”, Michael J. Walker Memorial Lecture Visiting Professor, September 2, 2010.

**Dr. Samuel E. Dagogo-Jack**
Dr. Samuel E. Dagogo-Jack, A.C. Mullins Endowed Chair in Translational Research, Professor of Medicine, Director, Division of Endocrinology, Diabetes & Metabolism and Director, General Clinical Research Center, University of Tennessee Health Science Center, presented “Diabetes and Cardiovascular Disease: Implications of Recent Outcome Studies”, April 7, 2011.
Dr. Alberto R. Ferreres
Dr. Alberto R. Ferreres, Professor of Surgery and Chair of the Department of Surgery, Dr. Carlos A. Bocabando Hospital, University of Buenos Aires, Argentina, presented “Error in the Surgical Domain”, September 30, 2010.

Dr. William Finkelmeier
Dr. William Finkelmeier, National Director, Vein Solutions, presented “Smeadism and Their Impact on my Career”, William L. Smead, MD Symposium, May 21, 2011.

Dr. George Geroulakos
Dr. George Geroulakos, Vascular Surgeon, Charing Cross Hospital; President of the Vascular Section of The Royal Society of Medicine in London, presented “Randomized Controlled Trial of Ultrasound Guided from Sclerotherapy Combined with Sapheno-Femoral Ligation Compared to Surgical Treatment of Varicose Veins; Five Year Results”, William L. Smead, MD Symposium, May 21, 2011.

Dr. John Hallett
Dr. John Hallett, Clinical Professor of Surgery; Medical Director, St. Francis Heart and Vascular Center, Medical University of South Carolina, presented “Creating Heart and Vascular Centers that Work: Negotiating Troubled Waters”, William L. Smead, MD Symposium, May 21, 2011.

Dr. Irving Kron
Dr. Irving Kron, President of the American Association for Thoracic Surgery, Chairman of the Department of Surgery and the S. Hurt Watts Professor of Surgery, University of Virginia, Charlottesville, VA, “The Present and Future of Cardiothoracic Surgery”, Klassen Lecture, June 16, 2011.

Dr. Steven Leers
Dr. Steven Leers, Assistant Professor of Surgery, University of Pittsburgh Medical Center, presented “Duplex Ultrasound after EVAR and Venous Reflux and CVI Testing”, 3rd Non-Invasive Vascular Symposium, October 16, 2010.

Dr. Malcolm Lesavoy
Dr. Malcolm Lesavoy, plastic and reconstructive surgeon, Plastic Surgery Education Foundation Visiting Professor, presented “MOHS Facial Reconstruction” and “Physician Health in Plastic Surgery”, February 10 & 11, 2011.

Dr. Allan William Lohaus
Dr. Allan William Lohaus, obstetrician and gynecologist and served as Associate Professor of Gynecology and Obstetrics, Johns Hopkins Hospital, presented “Mayday!: A Physician as Patient”, February 10, 2011.

Dr. James Luketich
Dr. James Luketich, Chair of the Department of Cardiothoracic Surgery, Professor of Surgery, University of Pittsburgh, presented “Evolution of Minimally Invasive Esophagectomy”, March 4, 2011.
**Dr. Robert G. Martindale**
Dr. Robert G. Martindale, Professor of Surgery, Chief, Division of General Surgery and Medical Director for Hospital Nutrition Services, Oregon Health & Science University, presented “Using Specific Nutrients to Improve Surgical Outcomes: Facts or Fiction?”, March 3, 2011.

**Dr. Fabrizio Michelassi**
Dr. Fabrizio Michelassi, Lewis Atterbury Stimson Professor of Surgery and Chairman of the Department of Surgery at Weill Cornell Medical College and Surgeon-in-Chief at New York-Presbyterian Hospital, presented the 2011 Robert M. Zollinger Lecture “Management of Complex Small Bowel Crohn’s Disease”, June 9, 2011.

**Dr. R. Lawrence Moss**
Dr. R. Lawrence Moss, H. William Clatworthy Visiting Professor in the Division of Pediatric Surgery, Robert Pritzker Professor, Surgery and Pediatrics, Yale University School of Medicine, Pediatric Grand Rounds, “Connecting your Head to Your NEC: Improving Outcomes for Babies with Bowel Perforation”. September 21-23, 2010.

**Dr. Janice F. Rafferty**
Dr. Janice F. Rafferty, Professor of Clinical Surgery and Chief of the Division of Colon and Rectal Surgery, University of Cincinnati College of Medicine, presented “Diverticulitis: New Management of An Old Disease”, March 10, 2011.

**Dr. Layton F. Rikkers**
Dr. Layton F. Rikkers, Emeritus Professor of Surgery, University of Wisconsin School of Medicine and Public Health, presented “Surgical Leadership: Lessons Learned”, April 28, 2011.

**Dr. Ann Marie Schmidt**

**Dr. Kurt B. Stevenson**
Dr. Kurt B. Stevenson, Associate Professor of Internal Medicine and Epidemiology in the Division of Infectious Diseases, Department of Internal Medicine, and the Division of Epidemiology, College of Public Health, The Ohio State University College of Medicine. He is also the Associate Medical Director of Clinical Epidemiology for the OSU Health System where he serves as the Director of the Antimicrobial Stewardship Program. Dr. Stevenson presented “Bad Bugs, No Drugs: Optimizing Antimicrobial Agents at OSUMC”, September 16, 2010.
Integrated and Affiliated Hospitals

The Ohio State University Medical Center
Consistently recognized as one of America’s best hospitals, The Ohio State University Medical Center is dedicated to patient care, research, and medical education. An institution with advanced diagnostic and therapeutic capabilities and more than 900 licensed beds, Ohio State’s Medical Center is a major tertiary referral center and a Level I trauma center with a helicopter transport service. A network of primary care centers refers patients to the Medical Center’s comprehensive patient management system.

The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute
Dedicated to care of the cancer patient and to cancer research, the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute is the only freestanding cancer hospital in Ohio and is one of 16 charter members of the National Comprehensive Cancer Network. An institution with 160 licensed beds, the James is adjacent to Ohio State’s Medical Center.

The Richard M. Ross Heart Hospital
Home to Ohio State’s nationally-ranked heart program and dedicated exclusively to the care of patients with cardiovascular disease, the Richard M. Ross Heart Hospital is a 150-bed, state-of-the-art institution offering advanced imaging and surgical technologies and patient care facilities. The hospital adjoins Ohio State’s Medical Center.

University Hospital East
A full-service hospital with an emphasis on family medicine, orthopedic care, and emergency medicine, University Hospital East is located on the near east side of Columbus, six miles from Ohio State.
Nationwide Children’s Hospital
The fifth-largest freestanding children’s hospital in the United States, Nationwide Children’s Hospital provides a broad spectrum of services, from advanced neonatal intensive care and surgery to primary and secondary medical care. Children’s Hospital is fully integrated with the training programs of the College of Medicine and The Ohio State University Medical Center. A Level I trauma center, Children’s is located just east of downtown Columbus, five miles from Ohio State.

Grant Medical Center
Located in the heart of downtown Columbus, five miles from Ohio State, Grant Medical Center is a busy, respected hospital and a Level I trauma center.

Mount Carmel West
An active and respected health-care provider, Mount Carmel West is located just west of downtown Columbus, five miles from Ohio State.

Riverside Methodist Hospital
Known for high-quality care, Riverside Methodist Hospital is located on the north side of Columbus, four miles from Ohio State.
Chairmen of the Department of Surgery

1914–1916  Dr. William J. Means
1916–1922  Dr. Verne A. Dodd (Head of Clinical Surgery)
1922–1926  Dr. Charles S. Hamilton
1927–1946  Dr. Verne A. Dodd (Head of Clinical Surgery)
1936–1952  Dr. George M. Curtis (Chairman of Surgical Research)
1946–1974  Dr. Robert M. Zollinger
1975–1986  Dr. Larry C. Carey
1987–1992  Dr. Olga Jonasson
1993–1998  Dr. Ronald M. Ferguson
1999 – present  Dr. E. Christopher Ellison
A Legacy of Leadership

A bronze bust of Dr. Edwin H. Ellison is on exhibit in the Department of Surgery’s display case on the sixth floor of 395 West 12th Avenue, in recognition of the former faculty member’s contributions to The Ohio State University Medical Center.

Dr. Ellison joined the faculty of the department in 1946, after completing his residency in general surgery at Ohio State, under the mentorship of Dr. Robert M. Zollinger, then chairman of the department.

Dr. Ellison and Dr. Zollinger went on to perform the landmark studies that resulted in their identification of the disorder now known as Zollinger-Ellison syndrome, a condition characterized by intractable peptic ulcers, gastric hypersecretion and hyperacidity, and the occurrence of gastrinomas of the pancreatic cells of the islets of Langerhans. Their findings were published in *Annals of Surgery* in 1955.

Dr. Ellison served on the surgical faculty at Ohio State for 12 years. During this time, his achievements as a gifted clinical physician and technical surgeon, inspiring educator, and accomplished surgical investigator were important influences in the department’s rapid development and success after World War II.

In 1958, Dr. Ellison accepted an appointment as professor and chairman of surgery at Marquette University School of Medicine, now the Medical College of Wisconsin, in Milwaukee.

At Marquette, Dr. Ellison trained Dr. Larry C. Carey, who later, from 1975 to 1985, would serve as professor and chairman of surgery at Ohio State.

While at Ohio State, Dr. Carey trained Ellison’s son, Dr. E. Christopher Ellison, now the Robert M. Zollinger professor and chairman of surgery, associate vice president for health sciences, and vice dean of clinical affairs at The Ohio State University Medical Center.

“Dr. [Edwin] Ellison was unique,” Dr. Carey said during a 1994 interview. “He had a remarkable ability to get more out of people than was in them. He convinced all of us that we were a lot better than we were, and having done so, he helped us achieve more than we might have.”

Under Dr. Ellison’s leadership, the surgical faculty at Marquette made important contributions to the field of gastrointestinal surgery, and the department and its academic reputation grew and flourished.
Dr. Ellison died in 1970. He is remembered as a successful leader in academic surgery who made significant contributions to the profession of surgery, both at The Ohio State University Medical Center and at the Medical College of Wisconsin.

The bust of Dr. Ellison was sculpted by artist Anna D. Christoforidis, who also created the bust of Dr. Zollinger exhibited in the department’s display case.

Also on Exhibit
Also on exhibit is a set of surgical instruments that belonged to Dr. Robert M. Zollinger, chairman of the Department of Surgery from 1946 to 1974.

The instruments, a pair of Metzenbaum surgical scissors, were presented to Dr. Zollinger in 1970 by the then chief residents in general surgery: Dr. Michael F. Kaplan, Dr. Avram R. Kraft, Dr. Paul C. Redmond, Dr. Gary M. Richardson, and Dr. Thomas T. Vogel.

The instruments were donated to the Department of Surgery by Dr. Zollinger’s son, Dr. Robert M. Zollinger, emeritus professor of surgery at Case Western Reserve University, in Cleveland, Ohio.
Division of Cardiac Surgery
The 2010-2011 academic year represents an important milestone at The Ohio State University Medical Center with the recruitment of new leadership in the Division of Cardiac Surgery. With the appointment of Dr. Robert Higgins as the Professor and Chief of the Division of Cardiac Surgery, a new Division of Thoracic Surgery was created under the direction of Patrick Ross, Jr., MD, PhD. Dr. Higgins joined the faculty from his role as the Department Chair of Cardiothoracic Surgery at Rush University Medical Center in Chicago. Under the direction of these two leaders, the faculty and staff of the Divisions of Cardiac and Thoracic Surgery have continued to grow and distinguish these programs as standouts in the field of academic surgery. The innovative programs continue to focus on clinical excellence in adult cardiac and thoracic surgery, mechanical circulatory support and transplantation, approaches to valvular disease and minimally invasive approaches to cardiovascular disease and arrhythmia management.

This faculty continues to emphasize clinical excellence, outstanding patient care, education and research. These efforts are particularly successful in The Ross Heart Hospital, a uniquely positioned innovative health delivery system with capabilities for diagnostic, interventional and surgical therapies for patients with cardiovascular disease.

A number of impressive accomplishments were realized by the divisional faculty this year. Dr. Michael Firstenberg was elected as the College of Medicine’s University Senate Representative. Dr. Juan Crestanello led a team of physicians/cardiologists to perform the first Core Valve percutaneous aortic valve implantation at OSUMC. Four faculty members were elected to membership of the American Association for Thoracic Surgery – Drs. Ross, Galantowicz, Crestanello and Firstenberg.
Patient Care
The Cardiac Surgery Division continues to excel as one of the premier cardiovascular programs in Ohio. As a leading referral program for innovative therapies, the Cardiac Surgery Division under the direction of Dr. Higgins includes distinguished faculty members: Dr. Juan Crestanello, Dr. Sai-Sudhakar, Dr. Michael Firstenberg, Dr. John Sirak, and Dr. Ahmet Kilic who joins the group from the University of Virginia. Drawing upon the growing strength of these programs, additional areas of focus include: advanced heart failure therapies focusing on mechanical circulatory support utilizing the Heart Mate II left ventricular assist device, expanded focus and interest in heart and lung transplantation, and complex aortic surgery.

With the recruitment of Dr. Ahmet Kilic the program will expand its breadth to include aortic surgery in The Aortic Center of Excellence, a collaboration with Dr. Pat Vaccaro and the Vascular Surgery Division at OSUMC. Additional programs of excellence include: extra caporal membrane oxygenation and thoracoscopic management of atrial arrhythmias.

Education
The cornerstone of academic cardiothoracic surgery is the commitment to training future generations of cardiothoracic surgeons. Given the current challenges in the field of cardiothoracic surgery, this mission is even more important due to decreasing numbers of US-trained general surgery residents entering the field. It is anticipated that there will be a shortfall of early career cardiothoracic surgeons with the retirement of the current generation of surgeons anticipated to occur in the next ten years and a lack of new trainees to take their positions. The Divisions of Cardiac and Thoracic Surgery at The Ohio State University Medical Center are poised to become one of the premier training programs in the field with complimentary programs in cardiac, thoracic and general surgery and a broad spectrum of comprehensive cardiovascular and thoracic surgical therapies. Our overarching goal is to train the next generation of cardiothoracic surgeons to be capable, competent professionals in the field, whether it be in community practice, a university or academic environment. We embrace this challenge and look forward to the opportunities it presents in the current educational environment.

Research
Dr. Sampath Parthasarathy has been the academic leader of the research enterprise at the Divisions of Cardiac and Thoracic Surgery. His team of investigators continues to be successful and productive in basic and translational research programs (RO1s) with extensive funding from the National Institute of Health. A number of important clinical research activities, industry sponsored research and developmental funds provide the resources necessary to complete the research mission. With these resources in place, Dr. Parthasarathy and his team have provided important research mentorship for surgical investigators including Dr. Juan Crestanello and Dr. Sai-Sudhakar. These physician/surgeon/scientists represent accomplished academic leaders in the Department of Surgery. Dr. Pawel Kwiatkowski continues to support research activities as the Division strives to distinguish itself as an academic leader in the field of cardiothoracic surgery.
It is our hope and expectation that with a renewed leadership vision and commitment in the areas of education and clinical programs, the divisions of cardiac and thoracic surgery will continue to distinguish themselves as one of the top academic training programs in the country. With the expansion and development of programs such as lung transplantation and aortic surgery to compliment the already outstanding clinical programs, the future is very bright at The Ohio State University Medical Center.
Faculty

Robert S. D. Higgins, MD, MSHA
Professor of Surgery; Chief, Division of Cardiac Surgery
Program Director, Cardiac and Thoracic Surgery Residency Program
John H. and Mildred C. Lumley Medical Research Chair
Director, Comprehensive Transplant Center
BA: Dartmouth College, Hanover, NH, 1981
MD: Yale University School of Medicine, New Haven, Ct., 1985
Specialty Training: Residency in general surgery, University Health Center of Pittsburg, Pittsburg, Pa., 1990; fellowship in cardiothoracic surgery, Yale University School of Medicine, New Haven, Ct., 1990-1993; senior registrar in transplantation, Papworth Hospital, Cambridge University, Cambridge, England, 1993; masters, health administration, Virginia Commonwealth University, Richmond, Va., 2005
Appointment: July 1, 2010
Specialty Interests: Thoracic transplantation, adult cardiac surgery, coronary artery bypass surgery, mechanical circulatory support.
Research Interests: Healthcare outcomes, disparities in transplantation and healthcare, ischemia reperfusion injury.

Juan A. Crestanello, MD
Associate Professor of Surgery
MD: University of the Republic of Uruguay Medical School, Montevideo, Uruguay
Specialty Training: General surgery residency, University of Maryland Medical System, Baltimore, Md.; cardiothoracic surgery research, Hahnemann University, Philadelphia, Pa., and University of Maryland, Baltimore, Md.
Appointment: 2004
Specialty Interests: Cardiac surgery
Research Interests: Ischemic preconditioning, mitochondrial function during ischemic preconditioning, myocardial ischemia reperfusion injury, cell transplantation, the effect of myocardial oxygen content on survival of transplanted cells
**Michael S. Firstenberg, MD**  
Assistant Professor of Surgery  
**BA:** University of Chicago, Chicago, Il., 1990  
**MD:** Case Western Reserve University, Cleveland, Oh., 1996  
**Specialty Training:** The Ohio State University Medical Center, Columbus, Oh.; Cleveland Clinic, Cleveland, Oh.; National Heart, Lung, and Blood Institute, Bethesda, Md.; University Hospitals, Cleveland, Oh.  
**Appointment:** 2007  
**Specialty Interests:** Adult acquired and congenital cardiac surgery, cardiothoracic critical care, mechanical assist, heart failure  
**Research Interests:** Cardiac imaging and physiology, mechanical assist  

**Mark Galantowicz, MD**  
Associate Professor of Clinical Surgery  
**BA:** University of Pennsylvania, Philadelphia, Pa., 1982  
**MD:** Cornell University Medical College, New York, NY, 1987  
**Specialty Training:** Columbia-Presbyterian Medical Center, New York, NY  
**Appointment:** 2002  
**Specialty Interests:** Pediatric transplantation and surgery  

**Ahmet Kilic, MD**  
Assistant Professor of Surgery  
**BS:** The Pennsylvania State University, University Park, Pa., 1998  
**MD:** Virginia Commonwealth University, Richmond, Va., 2002  
**Specialty Training:** Internship and residency in general surgery; University of Maryland, Baltimore, Md.; fellowship in cardiothoracic surgery, University of Virginia, Charlottesville, Va.  
**Appointment:** 2011  
**Specialty Interests:** Aortic surgery, heart transplantation, lung transplantation, heart failure  
**Research Interests:** Aortic pathology, heart and lung transplantation; heart failure  

**Pawel Kwiatkowski, MD**  
Assistant Professor of Surgery  
**BA:** ILO Swietochlowice, Poland, 1982  
**MD:** Silesian Academy of Medicine, Katowice, Poland, 1988  
**Specialty Training:** Silesian Academy Medical Center, Zabrze, Poland; Columbia University, New York, NY  
**Appointment:** 1998  
**Research Interests:** Transplant immunology, including xenotransplantation and allotransplantation of heart and lung
Patrick I. McConnell, MD  
Assistant Professor of Surgery  

**BA:** Creighton University, Omaha, Ne., 1994  
**MD:** University of Nebraska Medical Center, Omaha, NE, 1999  
**Specialty Training:** General surgery residency, University of Utah Hospitals, Salt Lake City, Ut.; fellowship in cardiovascular surgery, The Ohio State University Medical Center, Columbus, Oh.; fellowship in congenital heart surgery, Nationwide Children’s Hospital. Columbus, Oh., 2010  
**Appointment:** 2010  
**Specialty Interests:** Heart transplantation, adult cardiac surgery, coronary artery bypass surgery, mechanical circulatory support.

Sampath Parthasarathy, PhD., MBA  
The Karl P. Klassen Professor of Surgery; Director of Research, Division of Cardiothoracic Surgery; Professor of Human Nutrition; Professor, Endocrinology, Diabetes and Metabolism; Professor of Internal Medicine  

**PhD:** Indian Institute of Science, Bangalore, India, 1975  
**MBA:** University of Phoenix, Phoenix, Az., 2004  
**Specialty Training:** Kyoto University, Kyoto, Japan; Duke University, Durham, NC; the Hormel Institute, University of Minnesota, Austin, Mn.  
**Appointment:** 2006  
**Research Interests:** Vascular biology and medicine

Chittoor B. Sai-Sudhakar, MBBS, FACS, FRCS  
Assistant Professor of Surgery  

**BA:** Loyola College, Madras, India, 1975  
**BSc:** Presidency College, Madras, India, 1976  
**MBBS:** Stanley Medical College, Madras, India, 1982  
**Specialty Training:** Yale-affiliated residency, St. Mary’s Hospital, Waterbury, Ct.  
**Appointment:** 2003  
**Specialty Interests:** Aortic surgery, heart failure  
**Research Interests:** Pathways in endothelial cells

John H. Sirak, MD  
Assistant Professor of Clinical Surgery  

**BA:** Amherst College, Amherst, Ma., 1985  
**MD:** Case Western Reserve University, Cleveland, Oh., 1991  
**Specialty Training:** General surgery residency, minimally invasive cardiothoracic surgery fellowship, The Ohio State University, Columbus, Oh.; arrhythmia surgery fellowship, Cleveland Clinic, Cleveland, Oh.  
**Appointment:** 2004  
**Specialty Interests:** Surgery for atrial fibrillation  
**Research Interests:** Transplant immunology
New Full-Time Faculty Appointments

Ahmet Kilic, MD
Assistant Professor of Surgery

Patrick I. McConnell, MD
Assistant Professor of Surgery

Emeritus Faculty

J. Terrance Davis, MD
Professor Emeritus of Clinical Surgery
B.A.: Williams College, Williamstown, Ma., 1963

Gerard S. Kakos, MD
Clinical Associate Professor Emeritus of Surgery
B.A.: The Ohio State University, Columbus, Oh., 1964
M.D.: The Ohio State University, Columbus, Oh., 1967

James W. Kilman, MD
Professor Emeritus of Surgery
B.S.: Indiana State University, Terre Haute, In., 1956
M.D.: Indiana State University, Indianapolis, In., 1960

Charles V. Meckstroth, MD
Professor Emeritus of Surgery
B.A.: The Ohio State University, Columbus, Oh., 1944
M.D.: The Ohio State University, Columbus, Oh., 1947
M.M.Sc. (Surgery): The Ohio State University, Columbus, Oh., 1950

Howard D. Sirak, MD
Professor Emeritus of Surgery
A.B.: University of Pennsylvania, Philadelphia, Pa., 1943
M.D.: The Ohio State University, Columbus, Oh., 1947
M.M.Sc. (Surgery): The Ohio State University, Columbus, Oh., 1953
Clinical Faculty

Thomas E. Williams, Jr, MD, PhD
Clinical Associate Professor of Surgery
BA: Princeton University, Princeton, NJ, 1957
MS, MD: The Ohio State University, Columbus, Oh., 1963
PhD: Northwestern University, Evanston, Il., 1969

Resident Staff

Dana Booth, MD
PGY-6
BS: University of California at San Diego, San Diego, Ca., 1997
MD: Medical College of Wisconsin, Milwaukee, Wi., 2003

Sergio Carrillo, MD
PGY-7
MD: Universidad de San Carlos, Guatemala, 2002

Karen Nelson, MD
PGY-6
BA: University of Kentucky, Lexington, KY, 2000
BS: Mercer University, Macon, Ga., 1997
DO: Lake Erie College of Osteopathic Medicine, Bradenton, Fl., 2005

Charles Jason Rousseau, DO
PGY-7
BS: Samford University, Birmingham, Al., 2000
DO: Nova Southeastern University College of Osteopathic Medicine, Ft. Lauderdale, Fl., 2004

Mission

The Division of Cardiac Surgery is dedicated to preserving and improving life for patients with heart and valve disease.
Research Programs

- Ablate continued access (Atricure synergy bipolar RF energy lesions for permanent atrial fibrillation treatment during concomitant on-pump endo/epicardial cardiac surgery)
- Anticoagulation strategy with bioprosthetic valves postoperative event registry
- Assessment of adiponectin in severely septic patients with or without hyperglycemia
- Atrial fibrillation treatment during concomitant on-pump endo/epicardial cardiac surgery
- Beta-blockade in chronic mitral regurgitation: moving from laboratory experiment to clinical investigation
- Biofilm in deep sternal wound infection after cardiac surgery: pilot study
- Cardiac surgery in patients 80 years and older
- Cardiomyocytes from failing human hearts
- CardioWest Temporary Total Artificial Heart market surveillance study
- Centrimag short term ventricular assist system
- Centrimagvas: use as an RVAS following implantation of a commercially approved LVAS
- Cerebrovascular events in high-risk subjects undergoing coronary artery bypass
- Changing characteristics of infections in patients requiring long-term ventricular assist devices
- Characterization of hyponatremia during cardiac surgery and its affects of outcomes
- Circulating endothelial cells and thrombosis
- Clinical and economic outcomes in patients with endocarditis
- Clinical Trial of the On-X Valve Using Low Dose Anticoagulation
• Comparative clinical and pharmacoecomic study comparing Argatroban® IV vs. Desirudin SC for patients with suspected heparin-induced thrombocytopenia (HIT) without clinically evident thrombosis: PREVENT-HIT

• Comparative mutational profiling as the standard of care in assessing lung lesions.

• Cormatrix study.

• C-pulse: implantable counterpulsation pump (ICP) a heart assist device

• CTSN- moderate mitral regurgitation study

• CTSN- Severe mitral regurgitation study

• Destiny trial: effects of mitral valve annuloplasty with the Geoform ring on left ventricular geometry and function in patients with Cardiomyopathy

• Devices and implantable cardiac defibrillators. A single center experience II

• Effects of dietary-induced weight loss on HDL-functionality in dysglycemic African Americans and white Americans

• Effect of intramyocardial injection of mesenchymal precursor cells on myocardial function in LVAD bridge to transplant patients

• Effects of sesame oil supplementation on cardiovascular risk factors in obese and non-obese otherwise healthy subjects

• Efficacy of aspirin on HDL-C functionality (Paraoxonase enzyme activity {PON1}) and subclinical atherosclerosis in African American and white American women

• Efficacy, immunogenicity, and safety of a single dose of Merck 0657NI

• Emergency use of the Heartware left ventricular device for the treatment of heart failure

• Evaluation of bleeding rates in recipients of pulsatile versus non-pulsatile ventricular assist devices

• Evaluation of glycemic control in cardiac surgery patients

• Evaluation of outcomes following mitral valve repair/replacement in severe chronic ischemic mitral regurgitation

• Evaluation of the Heartware LVAD system for the treatment of advanced heart failure
• Evaluation of the Levacor ventricular assist device as a bridge to cardiac transplantation
• Extracorporeal Life Support Organization (ELSO) registry
• Fibrillation in subjects receiving the Cormatrix ECM for pericardial closure
• Fulminant myocarditis: micro RNAs as a predictive biomarker and a therapeutic target
• Gastrointestinal bleeding in patients with ventricular assist devices: etiology, endoscopic diagnostic and therapeutic maneuvers
• Glycemic control and variability in congestive heart failure exacerbation
• Graft (CABG) surgery using cardiopulmonary bypass (protocol no. P05633): red CABG trial (Reduction in cardiovascular events by Acadesine in subjects undergoing CABG)
• Harefield recovery protocol study (HARPS): a non-randomized, open label, multi-center evaluation of potential recovery of heart functions in patients with refractory chronic heart failure by treatment with a combination of LVAD, drugs to induce maximal reverse modeling and thebeta-2 adrenergic receptor agonist, Clenuterol
• Heartmate II LVAS pivotal study protocol
• HeartMate II VAD destination therapy
• Hybrid revascularization observational study
• Hybrid revascularization: a collaborative approach to coronary artery disease
• Hyponatremia during cardiac surgery
• Immunobiology of insulin resistance: The role of T regulatory cells
• Immunobiology of transplant related heart failure
• Intensive glycemic control for congestive heart failure exacerbation
• Interagency registry of mechanically assisted circulatory support (INTERMACS)
• Intra- and post-operative glycemic control in both diabetic and non-diabetic
• Isolation of monocytes and lipoproteins from normal human blood
• Levitronix Centrimag VAS failure to wean from cardiopulmonary bypass trial
• Maintenance of platelet inhibition with Cangrelor after discontinuation of thienopyridines in patients undergoing surgery: the bridge trial

• Mechanical, cellular and pharmacological therapy for congestive heart failure

• Medtronic Core Valve U.S. pivotal trial

• Medtronic Mosaic® vs. Carpentier-Edwards®Perimount® all-cause patient survival

• Myocardial gene and protein expression in end-stage heart failure

• Multicenter, randomized, double-blind, parallel-group, placebo controlled study of 2 mg/kg bolus plus 24-hour 0.05 mg/kg/hr infusion of Pexelizumab in patients undergoing coronary artery bypass grafting with cardiopulmonary bypass

• Novel approach to generate regulatory T cells using CD103 depletion

• Occurrence of ventricular arrhythmias in patients with left ventricular assist device

• Off-pump mechanical circulatory support device (MCSD) implantation: a single center study

• Off-pump coronary artery bypass in low ejection-fraction patients

• Omega-3 fatty acids for the prevention of atrial fibrillation after cardiac surgery

• OSU Heart Center Biobank

• Patient discharge using the AB portable driver system.

• Pilot study assessing robotic video assisted thoracic surgery (RATS) versus standard thoracotomy for malignant lesions

• Patients undergoing coronary artery bypass graft surgery and outcomes with recent Clopidogrel exposure: a case control study

• Patients undergoing high-risk coronary artery bypass graft (CABG) surgery

• Performance between the Mitroflow valve and the Carpenter-Edwards Magna valve in the aortic position

• Permanent atrial fibrillation treatment during concomitant on-pump endo/epicardial cardiac surgery

• Phase III, randomized, double-blind, placebo-controlled, two arm parallel, multicenter study evaluating the efficacy and safety of dexmedetomidine
• Pilot, multicenter, randomized, double-blind, placebo-controlled study to evaluate Nesiritide infusion, initiated post induction of anesthesia, in the management of coronary artery bypass graft (CABG) patients requiring cardiopulmonary bypass (CPB)

• Prevention of postoperative delirium in patients undergoing heart surgery with cardiopulmonary bypass

• Prospective, randomized, controlled, un-blinded, multi-center clinical trial to evaluate the Heartware ventricular assist system (VAS) for destination therapy of advanced heart failure

• Prospective, randomized evaluation of new onset postoperative atrial fibrillation in subjects receiving the Cormatrix ECM for pericardial closure

• Protect II: a prospective, multi-center, randomized controlled trial for the Impella Recover LP 2.5 system versus intra aortic balloon pump (IABP) in patients undergoing non emergent high risk PCI

• Randomized clinical trial of the safety and efficacy of the DeBakey VAD as destination therapy in patients with end-stage heart failure

• Randomized, controlled, phase 3 study of gentamicin-Collagen Sponge (Collatamp G) in cardiac surgical subjects at higher risk for sternal wound infection

• Randomized, double-blind, placebo-controlled, dose-ranging, multi-center to evaluate the cardiovascular and cerebrovascular of MC-1 in patients undergoing high-risk coronary artery bypass graft (CABG) surgery

• Randomized, multicenter, double-blind, group-sequential study to evaluate the efficacy, immunogenicity, and safety of a single dose of Merck 0657nI staphylococcus aureus vaccine V710 in adult patients scheduled for cardiothoracic surgery

• Randomized study to compare sizing, implant techniques and homodynamic performance between the Mitroflow and the Carpenter-Edwards Magna pericardial tissue valves in the aortic position

• Recover I: Impella Recover LP/LD 5.0 Support System: a clinical safety and feasibility study

• Recover II: a prospective randomized trial investigating the use of the Impella

• Recover LP 2.5 system in patients with acute myocardial infarction induced hemodynamic instability

• Recover LP 2.5 system versus intra aortic balloon pump (IABP) in patients undergoing non emergent high risk PCI
- Retrospective review of fungal infections in patients with left ventricular assist device in the Echinocandin era

- Retrospective and prospective study of patients with atrial fibrillation and the post-operative outcomes, quality of life, and arrhythmia re-occurrence rates after undergoing the total thoracoscopic maze procedure

- Retrospective study on the effect of mitral valve annuloplasty on left ventricular geometry and function in patients with Cardiomyopathy

- Role and mechanism of oxygen tension and oxidative stress in regulating the development of intimal hyperplasia in human saphenous veins cultures ex-vivo

- Role of endothelial nitric oxide synthase in local blood pressure regulation in patients with vascular disease

- Role of macrophages in acute cellular rejection in cardiac transplantation

- Role of T cells & HSP70 in ischemic spinal cord injury after thoracoabdominal aortic aneurysm repair at The Ohio State University Medical Center – prospective analysis

- Scherring Plough CABG clinical research study

- Sexual function questionnaire for patients with Left Ventricular Assist Device (LVAD)

- Staphylococcus aureus vaccine (V710) in adult patients scheduled for cardiothoracic surgery

- Star outcomes: a multicenter data registry for outcomes from surgical treatment of atrial arrhythmias

- STICH protocol for surgical treatment for ischemic heart (STICH) failure trial

- Study comparing Angiomax (Bivalirudin) to heparin with protamine reversal in patients undergoing on-pump coronary artery bypass (OPCAB) surgery

- Study of factors that prevent improvement in left ventricular function after surgical revascularization

- Study to determine the presence of oxidized low density lipoprotein (OX-LDL) and its degradation products in the blood and left ventricular tissues of patients with heart failure

- Surgical interventions for moderate ischemic mitral regurgitation

- Syncardia Cardiowest Temporary Total Artificial Heart (TAH-T) post market surveillance study
• SynCardia Freedom Driver System study
• Thoratec left ventricular assist device congestive heart failure sheep
• Thrombosis model of heart failure in sheep
• Ultrafiltration for severe volume overload in patients with a left ventricular assist device
• VAD Watch Telehealth Monitoring in the residential setting
• Ventricular assist device (LVAD), drugs to induce maximal reverse remodeling, and the beta-2 adrenergic receptor agonist, Clenbuterol
• Ventricular assist devices and implantable cardiac defibrillators: A single center experience
• Voyager I: Patient discharge using the AB Portable Driver System

Accomplishments in Research

• Klassen Research Day, June 2011, Klassen lecturer Irving Kron, MD, President of the American Association for Thoracic Surgery, Chairman of the Department of Surgery and the S. Hurt Watts Professor of Surgery, University of Virginia, Charlottesville, VA, “The Present and Future of Cardiothoracic Surgery” and Special Guest Lecturer Ann Marie Schmidt, MD, Director of the Diabetes Research Program, first Iven Young Professor of Endocrinology, New York University Langone Medical Center, New York, NY, “RAGE, Signal Transduction and the Complications of Diabetes”

• A team of cardiac surgeons and interventional cardiologists led by surgical principal investigator Dr. Juan Crestanello, associate professor of surgery, Division of Cardiac Surgery and co-principal investigator Dr. John P. Cheatham, director of interventional cardiology at Nationwide Children’s Hospital and professor of pediatrics and internal medicine at The Ohio State University College of Medicine, are participating in a nationwide clinical trial that may lead to new hope for patients with aortic stenosis that were previously considered inoperable. The team at Ohio State is one of 40 centers taking part in the CoreValve U.S. Pivotal Trial. The first CoreValve implantation at Ohio State took place in March.
Active Research Grants


Crestanello J. “A randomized, multicenter, double-blind, group-sequential study to evaluate the efficacy, immunogenicity, and safety of a single dose of Merck 0657nI staphylococcus aureus vaccine (V710) in adult patients.” November 11, 2008 – November 11, 2010, $1,500.00. Co-Investigator.


Crestanello J. “Characterization of hyponatremia during cardiac surgery and its effects on outcomes” Biogen IDEC. August 11, 2009 – August 10, 2011, $22,040.


**Firstenberg MS.** “Temporary circulatory support for severe sepsis.” Maquet Cardiovascular. 2011, $4,000.00. Principal Investigator.

**Firstenberg MS.** “A randomized, multicenter, double-blind, group-sequential study to evaluate the efficacy, immunogenicity, and safety of a single dose of Merck 0657nI staphylococcus aureus vaccine (V710) in adult patients.” Merck. November 11, 2008 – November 11, 2010, $49,663. Principal Investigator.


**Firstenberg MS.** “ECAL-PCPB-08-02: CONSERV™ – 1 (Clinical outcomes and safety trial to investigate Ecallantide’s effect on reducing surgical blood loss volume) – A phase 2 randomized placebo-controlled dose-ranging study in subjects exposed to cardio-pulmonary bypass.” Cubist Pharmaceuticals, Inc. November 2009 – January 2010, $75,111. Principal Investigator.


**Galantowicz ME.** “Surgical strategy and neurological outcomes for newborns with hypoplastic left heart syndrome.” NIH. June 1, 2010 – June 03,2011, $175,000. Principal Investigator.


Sai-Sudhakar CB. “Surgical interventions for moderate ischemic mitral regurgitation.” NHLBI, NINDS & CIHR. December 2008 – November 2011, $211,557. Principal Investigator


Sai-Sudhakar CB. “Is PTEN a modulator of reactive pulmonary hypertension?.” National Institute of Health- Vascular Cell and Molecular Biology. June 2010, $250,000. Dual PI.


Sai-Sudhakar CB. “Auto-antibodies to circulating endothelial cells inhibit vascular repair and myocardial recovery.” National Institute of Health. $1,500,000. Principal Investigator.

Sai-Sudhakar CB. “Levacor™ ventricular assist device (VAD) bridge to transplant study.” World Heart Corporation. October 24, 2009 – April 2011, $90,000. Principal Investigator.


Sai-Sudhakar CB. “Study to determine the presence of oxidized low density lipoprotein (OX-LDL) and its degradation products in the blood and left ventricular tissues of patients with heart failure. January 2008 – January 2011, (Internal Funding).” Co-Investigator.


Sai-Sudhakar CB. “TMC-BIV-02-06: A study comparing Angiomax (Bivalirudin) to heparin with Prota-


Sai-Sudhakar CB. “Evaluation of the HeartWare left ventricular assist device for the treatment of advanced heart failure (ADVANCE).” HeartWare, Inc. September 10, 2008 – February 1, 2010, $140,000. Co-Investigator.


Clinical Programs

- Adult cardiothoracic surgery
- Aortic surgery
- Arrhythmia surgery
- Heart failure surgery
- Heart transplantation
- Lung transplantation
- Mechanical circulatory support
- Minimally invasive heart surgery
- Robotic surgery
- Thoracic oncology
- Total artificial heart transplantation

Accomplishments in Clinical Care

- Dr. Juan Crestanello, associate professor of surgery, Division of Cardiac Surgery and co-principal investigator Dr. John P. Cheatham, director of interventional cardiology at Nationwide Children’s Hospital and professor of pediatrics and internal medicine at The Ohio State University College of Medicine, led a team that performed the first CoreValve implantation at Ohio State in March 2011.

- Dr. Mark Galantowicz was listed as Best Doctors in America, 2011-2012 in pediatric cardiac surgery.

Clinical Statistics

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>3,221</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>1,643</td>
</tr>
<tr>
<td>Admissions</td>
<td>997</td>
</tr>
<tr>
<td>Patient Days</td>
<td>10,880</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>5.34</td>
</tr>
</tbody>
</table>
Educational Programs

- Two-year cardiothoracic surgery fellowship accredited by the Accreditation Council for Graduate Medical Education.
- One-year fellowship in advanced heart failure/transplantation/mechanical circulatory support.
- Comprehensive rotation in cardiothoracic surgery for first- and third-year residents in general surgery.
- Eight week Summer Scholars program exposing first year medical students to the field of cardiothoracic surgery.

Accomplishments in Education

- Completion of the cardiothoracic surgery fellowship by Dr. C. Jason Rousseau and Dr. Sergio A. Carrillo on June 30, 2011.
- Dr. Wing C. Yeen completed the fellowship in mechanical and circulatory support on September 30, 2010
- Hosting the Samuel J. Roessler Memorial Medical Research Scholarship medical student, Cassondra Majestic, under the direction of her research advisor, Dr. Susan Moffatt-Bruce
- Dr. Higgins elected to ACGME Thoracic Surgery Residency Review Committee

Accomplishments in Outreach

- Dr. Robert S. D. Higgins and Dr. Chittoor B. Sai-Sudhakar presented at Heart Failure at the ‘Shoe symposium held November 11-12, 2010 at The Ohio State University, Columbus, Ohio.

Publications


Satiani B, Williams TE, Ellison EC. The impact of employment of part time surgeons on the expected surgeon shortage. *Journal of the American College of Surgeons* (in press)


Abstracts


Higgins RSD. 2011. Comparative effectiveness of left ventricular assist devices (LVAD) as a bridge to heart transplantation [Abstract]. (April 30) (AHA Basic Cardiovascular)


Quarrie R, Lee DS, Erdahl W, Pfeiffer DR, Zweier JL, Crestanello JA. Ischemic preconditioning increases mitochondrial sensitivity to proton leak leading to decreased reactive oxygen species production. Poster Presentation, 10th Annual DHLRI Research Day, Columbus, OH, October 12th, 2010


Quarrie R, Lee DS, Pfeiffer DR, Zweier JL, Crestanello JA. “Proton leak does not decrease mitochondrial reactive oxygen species production after ischemia-reperfusion.” 10th Annual OSUMC Research Day. The Ohio State University Medical Center. Columbus, OH, April 17, 2011

Quarrie R, Lee DS, Pfeiffer DR, Zweier JL, Crestanello JA. “Mitochondrial uncoupling and reactive oxygen species production in cardiac ischemia-reperfusion.” Fourth Annual Translational to Clinical (T2C) Comprehensive Wound Care Conference, Columbus, OH, April 8-9, 2011

Quarrie R, Lee DS, Pfeiffer DR, Zweier JL, Crestanello JA. “Mitochondrial uncoupling by increased proton leak is not a mechanism of decreasing reactive oxygen species production after ischemia-reperfusion.” The 16th Annual Department of Surgery Research Day. The Ohio State University Medical Center. Columbus, OH, June 10, 2011


Sai-Sudhakar CB, Brewer RJ, Emani S, Ravi Y, Slaughter MS, Sundareswaran K, Farrar D, John R. 2011. Patients with low compared to high body mass index gain more weight after continuous flow LVAD implant [Abstract]: Journal of Heart and Lung Transplantation [Peer Reviewed] (Formally Accepted)


Books

Book Chapters


Sirak J. 2011. Thoracoscopic Surgery for Atrial Fibrillation. In Cardiothoracic Surgery Review, Lippincott Williams & Wilkins, pp. 811-815. (Formally Accepted)

International Presentations


Galantowicz, M. 8th Annual International Workshop on Interventional Pediatric Cardiology. Speaker. Hypoplastic left heart syndrome; hybrid approach to HLHS: comprehensive stage II and fontan results. Milan, Italy, April 1, 2011


National Presentations


Crestanello, JA. Relationship between preoperative sodium and clinical outcomes after cardiac surgery. Presented at the American College of Cardiology 60th Annual Scientific Session and i2 Summit, April 2-5, 2011, in New Orleans, La., USA.

Firstenberg MS. Evolving and innovative applications of temporary extracorporeal circulatory life support. Minneapolois Heart Institute. Minneapolis, Mn.. October 4, 2010

Firstenberg MS. Publication strategy for advanced therapies in ECMO. Maquet Cardiovascular, LLC. April 28 & 29, 2011.


Lee D. Effect of hyponatremia in isolated rat hearts. Experimental Biology Washington DC, April 9-13 2011


Phillips A. Pediatric CTICU decreases significant events. Institute for Healthcare Improvement 22nd Annual National Forum on Quality Improvement in Health Care. Orlando, Fl., December 5-8, 2010


Quarrie R. The paradoxical effect of ischemia reperfusion on mitochondria membrane potential and reactive oxygen species production. 96th Annual Meeting American College of Surgeons Washington DC, October 5, 2010

Quarrie R. Increased mitochondrial sensitivity to proton leak is responsible for decreased reactive oxygen species production in ischemic preconditioning. Academic Surgical Congress Huntington Beach Ca., February 2011

Quarrie R. Mitochondria uncoupling does not decrease reactive oxygen species production after ischemia reperfusion. Society of Black Academic Surgeons Scientific Symposium Boston, Ma., April 30, 2011

Sirak J. The five-box thoracoscopic maze krocedure: Key techniques. Presentation to the Society of Thoracic Surgeons Meeting. San Diego, Ca., February 2, 2011

Williams TE. A comparison of future recruitment needs in urban and rural hospitals: The rural imperative. Central Surgical Association. Detroit, Mi., March 17, 2011

Miscellaneous Presentations

Crestanello JA. Minimally invasive and robotic cardiac surgery. Division of Cardiovascular Medicine Grand Rounds. The Ohio State University. Columbus Oh., September 24, 2010

Crestanello JA. The Ohio Chapter of the Latino Medical Student Association. Columbus, Oh., August 28, 2010

Crestanello JA. Percutaneous Valves Division of Cardiovascular Medicine Grand Rounds. The Ohio State University. Columbus, Oh., January 14, 2011

Crestanello JA. Robotics in cardiac surgery. What’s new in robotic surgery across specialties? The Ohio State University. Columbus, Oh., February 25, 2011


Firstenberg MS. Extra-corporeal Membrane Oxtgenation and Temporary Circulatory Support for Acute Cardiopulmonary Failure from Sepsis. Department of Post-Graduate Medical Education, Licking Memorial Hospital. Newark, Oh., August 23, 2010

Galantowicz M. Columbus Rotary. Invited Speaker. Congenital Heart Surgery; Where are we today? Columbus, Oh., October 18, 2010

Lee DS. Mitochondrial Depolarization is Not Responsible for Cardioprotection During Ischemic Preconditioning. Poster Presentation, 10th Annual DHLRI Research Day. Columbus, Oh., October 12, 2010.

Phillips A. VSD and Stents - Endoscopic Guidance in the OR. ISHAC 2010. Columbus, Oh., September 1, 2010

Quarrie R. Reactive Oxygen Species and Cardiac Ischemia-Reperfusion Injury Department of Surgery Grand Rounds. The Ohio State University. Columbus Oh., April 21, 2011.
Quarrie R. Ischemic Preconditioning Increases Mitochondrial Sensitivity to Proton Leak Leading to Decreased Reactive Oxygen Species Production. Poster Presentation, 10th Annual DHLRI Research Day, Columbus, Oh., October 12, 2010

Quarrie R. Mitochondria uncoupling does not decrease reactive oxygen species production after ischemia reperfusion. 22nd Annual Presidential Symposium of the Columbus Surgical Society. Mt. Carmel Medical Center. Columbus, Oh., March 12, 2011

Quarrie R. Proton Leak Does Not Decrease Mitochondrial Reactive Oxygen Species Production After Ischemia-Reperfusion 10th Annual OSUMC Research Day. The Ohio State University Medical Center. Columbus, Oh., April 17, 2011

Quarrie R. Mitochondrial Uncoupling and Reactive Oxygen Species Production in Cardiac Ischemia-Reperfusion.” Fourth Annual Translational to Clinical (T2C) Comprehensive Wound Care Conference, Columbus, Oh., April 8-9, 2011


Distinguished Visiting Professors

Irving Kron, MD
President of the American Association for Thoracic Surgery, Chairman of the Department of Surgery and the S. Hurt Watts Professor of Surgery, University of Virginia, Charlottesville, Va., “The Present and Future of Cardiothoracic Surgery”, June 16, 2011.

Ann Marie Schmidt, MD
Division of Critical Care, Trauma and Burn
The Division of Critical Care, Trauma, and Burn was formed in March, 2006 with the charge of enhancing the Department of Surgery’s programs in surgical critical care, trauma, burns and emergency general surgery and developing an acute care surgery program. This last year has seen continued growth in both faculty and also clinical volume and scholarly activity.

This year, the division recruited one new faculty member: Daniel S. Eiferman, MD. Dr. Eiferman, assistant professor of surgery, joined our faculty in July 2010. He completed his surgical critical care fellowship here at The Ohio State University Medical Center 2009-2010. He has had a busy first year with many accomplishments. He received an Outstanding Contribution Award from the Department of Emergency Medicine at The Ohio State University Medical Center; he became assistant program director of the surgical critical care fellowship; he became an ATLS course director; he co-developed MDT3 (Multidisciplinary Team Training for Trauma) to help improve communication and performance during Level I traumas; he continued research and gave surgical grand rounds on “Direct Mechanical Ventricular Actuation.”

As a division, there have been a number of notable accomplishments in the past year:

- Our surgical critical care fellowship had three of the four spots filled this past year. Recent graduate, Dr. Vanessa Olcese will be staying here at Ohio State and continuing her training as a neurocritical care fellow, Dr. Angelina Postoev will be relocating with her husband (also a general surgeon) to Atlanta to begin a private general surgical practice, and Dr. Sarah Russell will be staying here at Ohio State and joining our anesthesiology and critical care faculty.
• The Critical Care Signature Program, of which our division is a key member, continues to progress. Dr. Steinberg continues to act as co-chair of the system-wide critical care quality committee, which meets monthly.

• The Trauma Program, under the leadership of Dr. Steven Steinberg, continues to show an increase in activity with 2473 trauma admissions in 2010, reflecting an 11 percent increase over the previous year. Over the past five years there has been a 24 percent increase in the growth of the program. Of the patients admitted 21 percent had a moderate to severe Injury Severity Score and 43 percent of the patients required at least one operative procedure. Of patients that arrive by EMS, 40 percent of the patients transferred in from outside hospitals and 40 percent of the patients came directly from the scene of the event.

• The division also developed a number of new patient care guidelines and protocols including a massive transfusion protocol and a cervical spine clearance protocol.

Dr. Paul R. Beery II, assistant professor of clinical surgery, is now in his second year. He is a member of the Western Trauma Association and the Eastern Association for the Surgery of Trauma. His interests include surgical education, trauma, and critical care. Dr. Beery passed his Neurocritical Care Certification exam this past year. He is actively involved in community outreach and gave several presentations. Dr. Beery is active in the care of trauma and critically ill patients.

Dr. Charles H. Cook, associate professor of surgery, continued his research in cytomegalovirus (CMV) infections and bacterial sepsis during critical illness. His laboratory continues to focus on how cytomegalovirus reactivation causes lung injury in immunocompetent patients. In addition to his research pursuits, Dr. Cook continues to be active in the care of injured and critically ill patients and is medical director of the Surgical Intensive Care Unit. Dr. Cook and his manuscript, *Tree stands, not guns, are the Midwestern hunter’s most dangerous weapon* were featured in the “Nation” section of the November 4th, 2010 issue of USA Today. As a result of this news story, Dr. Cook was subsequently quoted and the news article was recounted across the nation by more than 25 sports magazines, on-line journals, and newspapers including the Los Angeles Times. Dr. Cook was also interviewed regarding the conclusions of his study by several radio stations. He received a Division of Wildlife Award from the Ohio Department of Natural Resources, Columbus, Ohio.

Dr. David E. Lindsey, assistant professor of clinical surgery, is now in his fourth year. Dr. Lindsey attends the Ross Heart Surgical ICU one-fourth of his clinical time. He is an active participant on the cardiovascular mortality reduction project at the Medical Center. This past year he has been active as an ATLS Trauma Course Director along with the Committee on Trauma for the American College of Surgeons in Ohio. He was selected and appointed to the Surgical Education Research Project for 2011-2012 for the Association of Surgical Educators. The College of Medicine awarded Dr. Lindsey the “Excellence in Teaching” award for the Class of 2011 at the graduation awards ceremony. At the surgical house staff graduation ceremony Dr. Lindsey was awarded the Michael J. Walker, MD Faculty Teaching Award by the medical students and the Department of Surgery Faculty Teaching Award by the surgical residents and fellows. Dr. Lindsey is active in the care of injured and critically ill patients.
Dr. Sidney F. Miller, professor of surgery, is the director of the OSU Burn Center. He is an authority on burn care and serves in leadership roles on local and national levels. He serves on the board of trustees of the American Burn Association and is the immediate past president of the organization. Dr. Miller represents the American Burn Association to the joint disaster planning committee of the American College of Surgeons and the Department of Homeland Security. He is an editorial board member of the “Journal of Burns” and “Journal of Burn Care and Rehabilitation” and reviews regularly for the Annals of Surgery, Journal of Trauma and Journal for Academic Surgery. Dr. Miller currently serves on the Ohio Department of Public Safety EMS Board’s Trauma Committee and the Ohio Department of Homeland Security Interagency Response Group. Dr. Miller served as a member of the American College of Surgeons’ Committee on Trauma (COT) for 18 years as Ohio State Committee on Trauma vice-chair and chair and as Region Chief for Region V of the COT. He is a member of the external review panel for the Department of Defense Combat Casualty Care Program. This program is developing new and improved methods of evaluating and treating our injured military personnel and the work done by the Combat Casualty Care Program will be translatable to the civilian community. He is a past governor of the American College of Surgeons and a past president of the Ohio Chapter of the American College of Surgeons. Under the direction of Dr. Miller, the burn program has been established at Ohio State University. In addition to patient care the program has established an Annual Burn Survivor Family Camp and implemented the Survivors Offering Assistance in Recovery (SOAR) program which provides peer support to patients in the OSU Burn Center.

Dr. Brian S. Porshinsky, assistant professor of surgery and Assistant Director of the OSU Burn Center, had a busy first year. He transferred his faculty appointment to the department of Plastic Surgery in April 2011 and continues to be active in burn care as well as building a plastic surgery practice. His interests include acute burn care, fluid resuscitation, and reconstructive burn surgery.

Dr. Stanislaw P. Stawicki, assistant professor of surgery, is in his third year. He has authored or co-authored over 130 publications including chapters, reviews, and original scientific contributions. He is one of the co-founders of OPUS 12 Foundation, an elite group of medical researchers who engage in multi-disciplinary collaborative efforts and multi-center clinical studies. In addition to being active nationally and internationally, Dr. Stawicki participates in important Medical Center committees and panels, including patient safety/sentinel event reviews, Perioperative Quality Management Committee, and was appointed to Co-Chair the Formulary Committee for 2011-2012. Dr. Stawicki is actively involved in didactics, including teaching ATLS courses, lectures and presentations for surgical critical care fellows, residents, and students, as well as numerous small group discussions for both surgical critical care and trauma/emergency surgery rotations. He is a mentor to several young research investigators, both locally and nationally. Dr. Stawicki was named Director of Research for the Division of Critical Care, Trauma, and Burn – a role that includes supervision of clinical research efforts by the division and direct oversight of divisional research infrastructure. In addition to being named to the Editorial Boards of the World Journal of Orthopaedics, the World Journal of Critical Care Medicine, and a Section Editor (Critical Sonology Science) for the Journal of Emergencies, Trauma, and Shock. Dr. Stawicki also serves as the Editor-In-Chief of the International Journal of Critical Illness and Injury Science.
Dr. Steven M. Steinberg, professor of surgery, is the director of the Division of Critical Care, Trauma and Burn and is a member of the board and the clinical trauma committee of Central Ohio Trauma Systems. He also is a member of the State of Ohio Emergency Medical Services Board. He serves as the chair of University Hospital Operating Room Committee and is a member of the Health System Operating Room Coordinating Committee, Leadership Council for Clinical Quality and Safety, and the Medical Staff Officers Group for The Ohio State University Medical Center. He is an editorial board member of Selected Readings in General Surgery. He has been selected as the recipient of the American College of Surgeons/American Surgical Association Health Policy Scholarship for the year 2010. Dr. Steinberg is listed as one of the Best Doctors in America by the U.S. News and World Report. He is the first recipient of the STAR Award, (OSU Stress, Trauma, and Resilience Program), at the Wex-STAR benefit at The Ohio State University Medical Center. Dr. Steinberg is active in the implementation of the OSU Surgical Go Team, Emergency Preparedness, Community Outreach, Educational and Process Development, Collaboration between OSUMC, Grant, and Columbus Division of Fire. He continues to be actively involved in surgical education and critical care. Dr. Steinberg remains active in the care of injured and critically ill patients.

Dr. Joanne Trgovcich, research assistant professor, joined our faculty in April 2011, coming from a pathology faculty appointment. She continues her research as a NIH co-investigator on viral evasion of NK cells. This award is for $344,042.00 and is for the period September 18, 2009 to August 31, 2013. The goal of this study is to investigate the role of murine cytomegalovirus gene products in regulation of NK cells in acute and latent infections. She also assists with ongoing work in the laboratory of Dr. Charles Cook to study murine cytomegalovirus reactivation. She is a review editor for “Frontiers in Microbial Immunology”. She is a member of the American Society for Microbiology, American Association for the Advancement of Science, and American Society for Biochemistry and Molecular Biology. She is a Professor, Faculty of Medicine, at the University of Rijeka Medical School, Croatia. Dr. Trgovcich has many peer-reviewed publications.

Dr. Melissa L. Whitmill, assistant professor of clinical surgery, joined us in August 2008. She has been Medical Director of Nutrition Services since 2009. She is an active member of numerous trauma and critical care societies. She became a Fellow of the American College of Surgeons (FACS) in 2010. She passed the Neurocritical Care certification examination in 2010 and has been active with the Neurocritical Care service here at OSUMC. She has served on several OSUMC committees: Ethics Committee and the Sentinel Event Review Committee. She is also an associate member of the ACS Ohio Committee on Trauma. Dr. Whitmill is very interested in education and has taught in several ATLS courses this year, in addition to coordinating the resident educational programs for trauma/emergency general surgery and the Surgical Critical Care fellowship. She recently completed the Advanced Surgical Skills Exposure in Trauma (ASSET) course. Dr. Whitmill has given several presentations in central Ohio. She has also co-authored several publications in the last year. Dr. Whitmill was awarded the Shining Star Award in Recognition of Faculty Mentorship by the graduating medical students through the Office of Diversity and Inclusion of The Ohio State University. Dr. Whitmill will be leaving our division at the end of June 2011 to accept the position of Assistant Professor of Surgery, Surgical Critical Care Fellowship Program Director and Assistant General Surgery Residency Program Director with Wright State University Department of Surgery and Medical Director of the Surgical Intensive Care Unit at Miami Valley Hospital in Dayton, Ohio.
Rebecca Coffey, RN, MSN, CNP, Burn Nurse Practitioner, has been on our team since 2006. She completed her undergraduate and graduate degrees at the University of Cincinnati earning her MSN in Burn and Trauma. She attended The Ohio State University obtaining her Adult Nurse Practitioner certification and is currently working on her Doctorate of Nursing degree. Rebecca is on the Nursing Research Executive Council. She is National Faculty for the Advanced Burn Life Support Class and she has been appointed to the American Burn Association’s Prevention Committee. Her primary interests are burn care, burn outreach, education and prevention, pediatric burn care, and wound care. In the past year she has provided outreach education to multiple EMS, referral hospitals and emergency departments.

Miranda M. Jackson, RN, BSN, MSN, ACNP-BC, Trauma Nurse Practitioner, joined our team in July of 2010. She completed her undergraduate degree at Wheeling Jesuit University in Wheeling, WV. She attended the University of Pittsburgh in Pittsburgh, PA for her graduate program for an Acute Care Nurse Practitioner with a specialty in Trauma and Emergency Preparedness. Miranda is highly trained in critical care medicine. She spends a lot of time involved in disaster management for hospitals as well as the community. She has obtained specialty training and certifications through numerous agencies, which include the Federal Management Agency (FEMA), National Incident Management System (NIMS), and the U.S. Department of Energy. Her special areas of interest include: Critical Care Medicine, Trauma and Emergency Medicine, Emergency Surgery, Bioterrorism/Disaster Preparedness training. Miranda is also certified as a Fundamentals of Critical Care Support Provider. Miranda was highly recognized by Dr. Steven Gabbe, Dr. Gordon Gee, and many of her colleagues at The Ohio State University Medical Center for her service to the community in a trauma rescue, which she assisted in providing emergent medical treatment to an accident victim in March of 2011. Miranda intends to further her education and obtain her Doctorate of Nursing degree.

Lisa K. Koser, RN, MS, MSN, ACNP-BC, PNP-AC, Trauma Nurse Practitioner, joined our team in March of 2011. She completed her initial education as a nurse at Mount Carmel School of Nursing in Columbus, OH and earned her Baccalaureate degree at Franklin University, Columbus, OH. Lisa gained valuable experience while working in pediatric and adult emergency departments and ICU’s and as a critical care transport nurse and nurse practitioner. She attended Excelsior College earning her MSN in Administration and Nursing Informatics before seeking her MS with a focus of Acute Care Nurse Practitioner from Wright State University, obtaining a subspecialty in trauma and cardiovascular care. She has also completed a post-masters certificate at The Ohio State University obtaining her Pediatric Acute Care Nurse Practitioner and working on completing her Doctorate of Nursing Practice. Lisa maintains numerous certifications including, FCCS Provider, CEN, CFRN, CCRN, C-NPT, EMT-P, NIMS and EMS Instructor. Her primary interest lies in the initial stabilization and care of the critically ill and injured patients in the pre-hospital, hospital and transport setting. Lisa is a reviewer and contributor for several peer-reviewed advanced practice and nursing journals. She is a frequent presenter at local and national conferences.

Dr. Vanessa Olcese, Dr. Angelina Postoev and Dr. Sarah Russell completed their surgical critical care fellowships.
Faculty

**Steven M. Steinberg, MD**
Professor of Surgery; Vice Chairman for Clinical Affairs, Department of Surgery; Trauma Medical Director; Chief, Division of Critical Care, Trauma, and Burn

**BSc:** The Ohio State University, Columbus, Oh., 1975
**MD:** The Ohio State University, Columbus, Oh., 1978

**Specialty Training:** The Ohio State University, Columbus, Oh.

**Appointment:** 1999

**Specialty Interests:** General surgery

**Research Interests:** Alterations in splanchnic microcirculation in shock; hemodynamic assessment in critical illness; adequacy of hemodynamic resuscitation in shock; sepsis and organ failure; trauma

**Paul R. Beery, II, MD**
Assistant Professor of Clinical Surgery

**BME:** The Ohio State University, Columbus, Oh., 1992
**MD:** The Ohio State University, Columbus, Oh., 1999
**MS:** The Ohio State University, Columbus, Oh., 2005

**Specialty Training:** The Ohio State University, Columbus, Oh.

**Appointment:** 2009

**Specialty Interests:** Trauma, surgical critical care

**Charles H. Cook, MD**
Associate Professor of Surgery; Medical Director, Surgical Critical Care

**BS:** Pennsylvania State University, University Park, Pa., 1987
**MD:** The Ohio State University, Columbus, Oh., 1991

**Specialty Training:** The Ohio State University, Columbus, Oh.

**Appointment:** 1997

**Specialty Interests:** Critical care, laparoscopy

**Research Interests:** Surgical outcomes, surgical infectious disease
Daniel S. Eiferman, MD
Assistant Professor of Surgery; Assistant Program Director of Surgical Critical Care Fellowship
BA: Northwestern University, Evanston, Ill., 1999
MD: University of Kentucky, Lexington, Ky., 2003
Specialty Training: Residency in general surgery, Rush University Medical Center, Chicago, Ill., 2009; research fellowship in cardiac surgery, Emory University, Atlanta, Ga., 2006; thoracic fellowship, Emory University, Atlanta, Ga., 2009; fellowship in surgical critical care, The Ohio State University, 2010
Appointment: 2010
Specialty Interests: Trauma, acute care surgery, surgical critical care
Research Interests: Critical care outcomes

David E. Lindsey, MD
Assistant Professor of Clinical Surgery
BS: The Ohio State University, Columbus, Oh., 1972
MD: The Ohio State University, Columbus, Oh., 1976
Specialty Training: Stanford University Hospital, Stanford, Ca.; University of California-Davis, Sacramento, Ca.
Appointment: 2007
Specialty Interests: Critical care, cardiovascular critical care, trauma

Sidney F. Miller, MD
Professor of Surgery; Director, Burn Center
BA: Indiana University, Bloomington, In., 1965
MD: Indiana University School of Medicine, Indianapolis, In., 1968
Specialty Training: Miami Valley Hospital, Dayton, Oh.
Appointment: 2006
Specialty Interests: Burns
Research Interests: Wound healing

Brian S. Porshinsky, MD
Assistant Professor of Surgery; Assistant Director, Burn Center
BA: The Ohio State University, Columbus, Oh., 1991
MD: Medical College of Toledo, Toledo, Oh., 1999
Specialty Training: Fellowship in surgical critical care, The Ohio State University, Columbus, Oh.; fellowship in burn surgery and critical care, New York-Presbyterian Hospital/Weill Cornell Medical Center, New York, NY; fellowship in plastic surgery, University of Illinois, Chicago, Il.
Appointment: 2009
Specialty Interests: Acute burn care, fluid resuscitation after burns
Research Interests: Advanced technology applications in clinical surgery
Stanislaw P. Stawicki, MD
Assistant Professor of Surgery
BA: University of Louisville, Louisville, Ky., 1997
MD: University of Louisville, Louisville, Ky., 2001
Appointment: 2008
Specialty Interests: Trauma, surgical critical care, emergency surgery
Research Interests: Geriatric trauma, role of comorbidities in trauma

Joanne Trgovcich, PhD
Research Assistant Professor
BS: Purdue University, West Lafayette, In., 1989
PhD: University of North Carolina, Chapel Hill, NC, 1996
Specialty Training: Post-doctoral research in microbiology and immunology, University of Rijeka, Croatia, 1998; post-doctoral research in pathology, molecular genetics, cellular biology, University of Chicago, Chicago, Il., 2001
Appointment: 2011
Research Interests: Molecular genetics, cellular biology, immunology

Melissa L. Whitmill, MD
Assistant Professor of Clinical Surgery; Director, Nutritional Support Services
BS: Columbia Union College, Takoma Park, Md., 1995
MD: Wright State University, Dayton, Oh., 2001
Specialty Training: Residency in general surgery, Wright State University, Dayton, Oh.; fellowship in surgical critical care, Henry Ford Hospital, Detroit, Mi.
Appointment: 2008
Specialty Interests: Trauma, surgical critical care, emergency surgery

Nurse Practitioners

Rebecca A. Coffey, MSN, CNP
BSN: University of Cincinnati, Cincinnati, Oh., 1978
MSN: University of Cincinnati, Cincinnati, Oh., 1982
Specialty Training: Nurse practitioner, The Ohio State University, Columbus, Oh., 1996
Appointment: 1990
Specialty Interests: Burn care, pediatric burn care, wound care
Miranda M. Jackson, MSN, ACNP-BC
BS: Wheeling Jesuit University, Wheeling, WV
MSN: University of Pittsburgh, Pittsburgh, Pa.
Specialty Training: Federal Emergency Management Agency (FEMA), National Incident Management Systems (NIMS) and Fundamentals of Critical Care Support (FCCS) certified
Appointment: 2010
Specialty Interests: Acute care, trauma and emergency preparedness, bioterrorism and disaster management training

Lisa K. Koser, MSN, ACNP-BC
BSN: Mount Carmel School of Nursing/Franklin University, Columbus, Oh.
MSN: Excelsior College, Albany, NY
MS: Wright State University, Dayton, Oh.
Specialty Training: ACNP subspecialty; trauma and cardiac, acute care pediatric nurse practitioner
Appointment: 2011
Specialty Interests: Critical care transport, pre-hospital trauma management, complex medical and surgical critical care, neonatal and pediatric critical care

New Full-Time Faculty Appointments

Daniel S. Eiferman, MD
Assistant Professor of Surgery
July 2010

Joanne Trgovcich, PhD
Research Assistant Professor
April 2011

Faculty Departures

Melissa L. Whitmill, MD
Assistant Professor of Clinical Surgery
Date of resignation: June 2011
Current appointment: Miami Valley Hospital, Dayton, Ohio; Wright State University, Department of Surgery, Dayton, Ohio
Resident Staff

Vanessa A. M. Olcese, MD
Surgical Critical Care Fellow
BS: University of Maryland, Baltimore, Md., 1998
MD: Georgetown University School of Medicine, Washington, DC, 2004

Angelina Postoev, MD
Surgical Critical Care Fellow
BS: The Ohio State University, Columbus, Oh., 1999
MD: Ross University School of Medicine, Roseau, Commonwealth of Dominica, 2004

Sarah Beth Russell, MD
Surgical Critical Care Fellow
BA: University of Notre Dame, Notre Dame, In., 2002
MD: University of Oklahoma College of Medicine, Tulsa, Oklahoma, 2006

Mission

The mission of the Division of Critical Care, Trauma, and Burn is to improve people’s lives through innovations in research, education, and patient care in the areas of surgical critical care, trauma, burns, and emergency surgery.

Research Programs

- PCR based Clostridium difficile toxin testing evaluation
- STOP-IT – A multi-center study of optimal length of antibiotic treatment for abdominal infections
- Comparison of the safety and efficacy of intravenous CXA-101/tazobactam and Metronidazole with that of Meropenem in complicated intraabdominal infections
- Comparison of the safety and efficacy of intravenous CXA-201 and intravenous Levofloxacin in complicated urinary tract infections, including pyelonephritis
- Intensivist bedside ultrasonography (INBU) – A prospective investigation of sonography in clinical assessment of the critically ill and injured patients
- A randomized clinical trial of restrictive versus traditional blood transfusion practice in burn patients
- Transfusion-related acute lung injury (TRALI) and West Penn resuscitation utilization in burn patients
- Use of fresh frozen plasma and the West Penn formula versus crystalloid resuscitation and the Parkland formula for resuscitation of major burns
- The effects of anticoagulants on elderly trauma patients with head injuries
- Incidence of and risks associated with polypharmacy in geriatric trauma patients
- Geriatric trauma risk assessment (GETRA) system: A post-trauma resuscitation area disposition tool
• Effects of beta blockers on outcomes in geriatric trauma patients
• An evaluation of how end-of-life decisions are made and documented
• Cytomegalovirus (CMV) infections and bacterial sepsis
• Cytomegalovirus infection in burn injury
• Glycemic control in critically ill surgical and burn patients
• A multi-center study of the efficacy of SOAR: A peer support program for burn survivors
• Increasing nurses knowledge and ability to teach about burn prevention: A multi-center study
• Electrical burns and the development of post traumatic stress disorder and associated psychological sequelae: A retrospective study
• Brain markers and advanced MRI in the evaluation and treatment of electrical injured patients and its implementation for diagnosing PTSD
• Using computer based learning as a method of establishing competency in the care of high risk, low volume nursing care
• Recognition and treatment of alcohol withdrawal syndrome in burn patients: Impact on nursing care and patient outcomes using a new clinical guideline
• Disseminating organizational screening and brief interventional services (DO-SBIS): Screening of alcohol usage and brief intervention in the acute care hospital
• Prospective randomized placebo trial of pregabalin in the control of neuropathic pain in burn patients
• The implementation of a burn prevention education module for patients with autism
• The incidence and implication of elevated Hemoglobin (Hgb)A1C in burn patients
• Foreign body ingestions in predominately prisoner population: A retrospective study
• Seprafilm in open abdomens: A prospective evaluation of wound and adhesion characteristics in trauma damage control
• The use of dynamic f/Vt ratio in identification of failures of ventilatory liberation in critically ill surgical patients
• Application of financial analysis techniques to urine output and glycemic measurements in critically ill burn patients
• The role of murine cytomegalovirus (CMV) gene products in regulation of NK cells in acute and latent CMV infections
• Wound colonization: Evaluation of soap versus chlorhexidine use
• Hemodynamic profiling of surgical ICU patients
• Comparison of two methods of hemodynamic and volume status assessment in critically ill surgical patients
• Intraosseous access use at burn centers
• Administration of enteral nutrition after percutaneous endoscopic gastrostomy in the surgical intensive care unit: A study of timing and temporal feeding patterns on patient outcomes
• A randomized, double-blind, placebo-controlled, parallel-group study of the safety and efficacy of REGN475 in patients with pain resulting from thermal injury
• A randomized, open-label, efficacy and safety study of Octaplex and fresh frozen plasma (FFP) in patients under vitamin K antagonist therapy with the need for urgent surgery or invasive procedures
Accomplishments in Research

- Faculty members in the division published 40 scholarly articles and abstracts.

- Division members had 3 podium presentations at national meetings and 10 poster presentations at international and national meetings by division faculty and staff.

- The division broadened its clinical research meetings to include representatives from Anesthesiology, Dietary, Pain and Palliative Medicine, Nursing, and Pharmacy.

Active Research Grants


- Justiniano C, Stawicki SP (faculty mentor). Comorbidity-polypharmacy score: A triage tool for determining post-emergency department destination for older trauma patients; Bennett Research Scholarship, $3,000.

- Stawicki SP. PULSION PiCCO2 evaluation; equipment and monitoring supplies, $60,000.

- Stawicki SP, Cook CH. A multicenter, double-blind, randomized, phase 2 study to compare the safety and efficacy of intravenous CXA-101/tazobactam and Metronidazole with that of Meropenem in complicated intraabdominal infections; $16,085.

- Steinberg SM. The disseminating organizational screening and brief intervention services (DO-SBIS) at trauma centers study; $12,000.

- Trgovcich J. NIH co-investigator on viral evasion of NK cells. The goal of this study is to investigate the role of murine cytomegalovirus gene products in regulation of NK cells in acute and latent infections; September 2009 - August 2013, $344,042.

Clinical Programs

- Surgical critical care, trauma, burn, and emergency surgery.
Accomplishments in Clinical Care

- Dr. Paul Beery, II and Dr. Melissa Whitmill passed the Neurocritical Care certification examination in 2010 and have been active with the Neurocritical Care service here at The Ohio State University Medical Center.

- The Level I verification follows a comprehensive review of the Medical Center’s practices and policies related to providing optimal care for critically ill and injured patients. The review, conducted by trauma surgeons associated with the American College of Surgeons, takes place every three years. OSU Medical Center has held a Level I designation for 19 years and was one of the first hospitals to receive the designation after the verification program started in 1987.

- A Level I trauma center must possess advanced diagnostic and treatment capabilities, including cardiopulmonary bypass, nuclear scanning and neuroradiology. The center also should have a leadership role in education, research and patient care.

- The OSU Medical Center is widely recognized for its expertise in the care of trauma patients and treats patients from throughout Ohio. It also has the only emergency department in central Ohio with hyperbaric medicine facilities and on-site physicians in more than 40 medical specialties.

- The division assumed the care of the majority of emergency general surgery patients.

- The division developed a number of new patient care guidelines and protocols including a massive transfusion protocol and a cervical spine clearance protocol.

Clinical Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>4,289</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>2,817</td>
</tr>
<tr>
<td>Admissions</td>
<td>1,787</td>
</tr>
<tr>
<td>Patient Days</td>
<td>11,219</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>4.86</td>
</tr>
</tbody>
</table>

Education Programs

- Fully-accredited fellowship in surgical critical care.

- The division received approval to start a fellowship in acute care surgery beginning July 1, 2011.
Accomplishments in Education

- Completion of the surgical critical care fellowships by Dr. Vanessa Olcese, Dr. Angelina Postoev and Dr. Sarah Beth Russell.

- Dr. Eiferman received an Outstanding Contribution Award from the Department of Emergency Medicine, The Ohio State University Medical Center.

- Dr. Eiferman co-developed MDT3 (Multidisciplinary Team Training for Trauma) to help improve communication and performance during level I traumas.

- The College of Medicine awarded Dr. Lindsey the “Excellence in Teaching” award for the Class of 2011 at the graduation awards ceremony.

- Dr. Lindsey was awarded the Michael J. Walker, MD Faculty Teaching Award at the surgical house staff graduation ceremony by the medical students and the Department of Surgery Faculty Teaching Award by the surgical residents and fellows.

- Dr. Steinberg was the first recipient of the STAR Award, (OSU Stress, Trauma, and Resilience Program), presented at the Wex-STAR benefit at The Ohio State University Medical Center.

- Dr. Paul Beery, II and Dr. Melissa Whitmill passed the Neurocritical Care certification examination.

Community Outreach Programs

- Trauma injury prevention program

- Burn outreach program

- Trauma outreach program

- Local Heroes Day

- Trauma Go Team

Accomplishments in Community Outreach

- The Trauma Go Team is a collaboration between OSUMC, Grant, and Columbus Division of Fire to provide an on-site trauma surgeon in the event that a trauma patient cannot be safely extricated from a scene without surgical intervention.
• The 4th Annual OSU Burn Center Family Burn Camp, under the direction of Dr. Sidney Miller, was held on August 13-15, 2010 at Camp Joy in Clarksville, Ohio. This camp brings together former burn patients and their families for a weekend of camping and team building.

• The ThinkFirst Program grew immensely this year and additional speakers were recruited. Central Ohio ThinkFirst Chapter presented 160 programs between 7/1/10-6/30/11, reaching 9,689 people. We continued these collaborative partnerships and served on the many community-wide committees including:
  • 4H CarTeens
  • Columbus Police Department
  • Franklin County 4H Youth Development
  • Franklin County Juvenile Court
  • Franklin County Safe Communities
  • Franklin County Sheriff’s Department
  • Franklin County Teen Safety Council
  • MADD Franklin County
  • SafeKids Central Ohio
  • SafeCommunities
  • The Ohio State University Extension Office
  • The Columbus Health Department
  • Worthington Police
  • Voices In Prevention (VIP’s)
  • Mayor’s Court: Upper Arlington, Dublin, and New Albany Juvenile Courts
  • Various K-12 schools and OSU
  • Central Ohio Trauma System (COTS)
  • Fatality Review Board
  • Columbus Area Pedestrian Safety Committee (CAPS)
  • Columbus Bicycle Safety Coalition
  • Mid-Ohio Regional Planning Commission (MORPC)
  • Bloom School of Driving Dynamix
  • Columbus Housing Partnership
  • Ohio Injury Prevention Partnership (OIPP)
  • Parents are the Key Campaign
  • National Safety Council Ohio Teen Safe Driving Coalition
  • SADD Franklin County
  • Hilliard Against Distracted Driving (HADD)
  • Neighborhood Pride
  • Hilltop YMCA
  • LOOP (LifeLine of Ohio)
  • DUI Task Force
  • Ricart Ford
  • Ashland Chemical
  • Dublin Kiwanis
  • SASSO (Student Athlete Support Services Office)
• Members of the OSU Burn Team participated in the Society of Fire Prevention Engineers’ 21st Annual Burn Center Golf Outing on October 4, 2010. Proceeds of this annual outing are used to provide medical supplies and services for burn patients.

• Many members of the division gave talks on trauma and burn topics to EMS providers, staff of outside hospitals and other care providers throughout the state of Ohio.

Publications


Crockett A, Stawicki SP, Thomas YM, Jarvis A, Wang C, Beery PR, Whitmill ML, Lindsey DE, Steinberg SM, Cook CH. Tree stands, not guns, are the Midwestern hunter’s most dangerous weapon. The American Surgeon 2010; 76(9):1006-1010.


Abstracts

Eiferman DS, Evans DC, Cook CH, Christy JM, Murphy CV, Gerlach AT, Lindsey DE, Whitmill ML, Beery PR, Steinberg SM, Stawicki SP. Pre-injury beta blocker use does not affect the hyperdynamic response in older trauma patients. 69th Annual Meeting of the American Association for the Surgery of Trauma, Boston, MA, September 22-25, 2010.


Evans DC, Cook CH, Christy JM, Murphy CV, Gerlach AT, Lindsey DE, Whitmill ML, Beery PR, Steinberg SM, Stawicki SP. Comorbidity-polypharmacy scoring may improve outcome prediction in older trauma patients. *J Am Coll Surg* 2010; 211(3S):S59.


Talmadge J, Eiferman D, Bahner D. Interest group alliance: A pilot program to improve the ultrasound education of students and clinicians [Abstract], 2011.


**International Presentations**

Cook CH. Visiting Professor. Consequences of CMV reactivation in immune competent hosts. University of Rijeka, Rijeka, Croatia, October 18, 2010.

Cook CH. Visiting Professor. Consequences of CMV reactivation in immune competent hosts. Johannes Gutenberg University of Medicine, Mainz, Germany, May 10, 2011.

Eiferman DS. Presenter. The role of trauma centers & systems: The US experience. Presented at 2011 Sino-USA Medical Symposium, Yangzhou University, China, April 22, 2011.

Eiferman DS. Presenter. The role of trauma centers & systems: The US experience. Presented at 2011 Sino-USA Medical Symposium, Changsha University, China, April 24, 2011.
Eiferman DS. Presenter. The role of trauma centers & systems: The US experience. Presented at 2011 Sino-USA Medical Symposium, Xian University, China, April 29, 2011.


Lindsey DE. Presenter. Damage control laparotomy – current management of hemorrhage in trauma. Presented at 2011 Sino-USA Medical Symposium, Shanghai University, Shanghai, China, April 18, 2011.

Lindsey DE. Presenter. Damage control laparotomy – current management of hemorrhage in trauma. Presented at 2011 Sino-USA Medical Symposium, Yangzhou University, China, April 22, 2011.

Lindsey DE. Presenter. Damage control laparotomy – current management of hemorrhage in trauma. Presented at 2011 Sino-USA Medical Symposium, Changcha University, China, April 24, 2011.

Lindsey DE. Presenter. Damage control laparotomy – current management of hemorrhage in trauma. Presented at 2011 Sino-USA Medical Symposium, Xian University, China, April 29, 2011.


National Presentations

Cook CH. Transfusion for trauma and critical care. 31st Annual Adult and Pediatric Trauma Symposium, St. Francis Trauma Institute, Tulsa, Ok., September 17, 2010.
Cook CH. Glycemic control in trauma and critical care. 31st Annual Adult and Pediatric Trauma Symposium, St. Francis Trauma Institute, Tulsa, Ok., September 17, 2010.


Evans DC, Cook CH, Christy JM, Murphy CV, Gerlach AT, Lindsey DE, Whitmill ML, Beery PR, Steinberg SM, Stawicki SP. Comorbidity-polypharmacy scoring may improve outcome prediction in older trauma patients. Presented at the American College of Surgeons Clinical Congress, Washington, DC, October 4, 2010.


Miller SF. Chair. Major Contributions by the Burn Community, Presidential Address, American Burn Association 43rd Annual Meeting, Chicago, Il., March 29-April, 2011.


Miller SF. Presenter. ABA Outreach to support your burn center. Presented at 23rd Annual Southern Region Burn Conference, Memphis, Tn., November 12-14, 2010.

Miller SF. Presenter. ABA Outreach to support your burn center. Presented at Northeast Region Burn Conference, Providence, RI, November 4-6, 2010.

Miller SF. Presenter. ABA Outreach to support your burn center. Presented at Midwest Region Burn Conference, Madison, Wi., October 22-23, 2010.

Miller SF. Presenter. ABA Outreach to support your burn center. Presented at Western Region Burn Conference, San Francisco, Ca., October 14–16, 2010.


Miller SF, Murphy C, Coffey R. Presenter. Intraosseous access use at burn centers. Presented at 38th Annual Great Lakes Burn Study Group, Cincinnati, Ohio, September 16-17, 2010.


Miscellaneous Presentations

**Beery PR.** Thoracic trauma. CME presentation, Scioto County Medical Society, SOMC South Campus, Portsmouth, Oh., January 13, 2011.


**Beery PR,** Coffey R. Crash and burn. Columbus, Fire Department, Columbus, Oh., December 20, 2010.

**Beery PR.** Crash and burn. Pataskala Fire Department, Pataskala, Oh., December 2, 2010.

**Betz S.** Introduction to trauma care – graduate entry students. Ohio State University Conference, Columbus, Oh., August 11, 2010.

**Betz S.** Trauma case review. Trauma tactics, Columbus, Oh., August 11, 2010.

**Betz S.** Farm injuries. Monroe County Fair, Woodsfield, Oh., August 26, 2010.

**Betz S.** Trauma 101. Mount Carmel Medical Center Conference, Columbus, Oh., October 6, 2010.

**Betz S.** Case review – GSW / hemophiliac. COTS TPIC, Columbus, Oh., October 7, 2010.

**Betz S.** Surviving the fear factor of trauma. Wyandot Memorial Hospital, Sandusky, Oh., October 12, 2010.

**Betz S,** Coffey R. Crash and burn. Emergency Medical Services, Prairie Township, Oh., October 13, 2010.

**Betz S.** Trauma 101. Hospital staff, Springfield, Oh., October 25, 2010.

**Betz S.** Trauma 101. Hospital staff, Newark, Oh., October 26, 2010.

**Betz S.** Trauma 101. Hospital staff, Newark, Oh., October 27, 2010.

**Betz S.** Trauma triage, assessment, and stabilization. Emergency Medical Services and Fire Department, Newark, Oh., October 27, 2010.

**Betz S.** Trauma triage, assessment, and stabilization. Emergency Medical Services and Fire Department, Newark, Oh., October 28, 2010.

**Betz S.** Airway and breathing emergencies. Fairfield Medical Center Critical Care Conference, Fairfield, Oh., October 29, 2010.
Betz S. Trauma 101. Capital University, Columbus, Oh., November 5, 2010.

Betz S. Advanced trauma tactics – burn care. Riverside Registered Nurses, Columbus, Oh., April 14, 2011.

Brown J, Calvitti K, Coffey R, Jeffers T. Ohio State University Outreach and Prevention on the Oval. Ohio State University community and students, Columbus, Oh., September 20, 2010.

Calvitti K, Coffey R, Garrison J, Kellar K. Burn Prevention Outreach at the Ohio Union. OSU Students, faculty, and staff, Columbus, Oh., February 9, 2011.


Coffey R. Crash and burn. Worthington Fire Department, Worthington, Oh., August, 3, 2010.

Coffey R. Advanced trauma tactics – burn care. OSUMC for ED and trauma nurses from local hospital, Columbus, Oh., August 11, 2010


Coffey R, Stewart T. Crash and burn. Columbus Fire Department, Columbus, Oh., December 16, 2010.

Coffey R, Dahman J, Schmidt J. Burn Prevention Community Outreach, Violet Township Fire Department, Pickerington, Oh., October 10, 2010.

Coffey R. Crash and burn. Emergency Medical Services, Prairie Township, Oh., October 13 2010.

Coffey R. Trauma tactics – burn care. Registered Nurses, Ohio State University Medical Center, Columbus, Oh., October 14, 2010.

Coffey R. Crash and burn. Medics, Columbus Fire Department, Columbus, Oh., November 30, 2010.

Coffey R. Trauma tactics. Grant Medical Center, Columbus, Oh., December 8, 2010.

Coffey R. Crash and burn. Columbus Fire Department, Columbus, Oh., December 20, 2010.


Coffey R. Advanced trauma tactics – burn care. OSUMC-Registered Nurses, Columbus, Oh., February 10, 2011.
Coffey R. Things that go BOOM. Emergency Medical Services, Adena, Oh., February 24, 2011.

Coffey R. Burn dressings. Ohio State University Emergency Department, Columbus, Oh., March 8, 2011.

Coffey R. Burn dressings. Ohio State University Nursing Students, Columbus, Oh., March 11, 2011.

Coffey R. Burn dressings. Ohio State University Nursing Students, Columbus, Oh., April 6, 2011.

Coffey R. Emergency Medical Services Education. Emergency Medical Services, Fire Station, McConnelsville, Oh., May 1, 2011.

Coffey R. Advanced trauma tactics – burn care. Riverside Registered Nurses, Columbus, Oh., May 11, 2011.


Davido HT, Ellison EC, Steinberg SM, Park T. Surgery Fair: Equipment variability and efficiency in the OR. Ohio State University Medical Center, Columbus, Oh., December 9, 2010.


Eiferman D. Lecturer. What is DVMA? Presented at Surgical Grand Rounds, to Surgery Residents, Faculty, Medical Students. Biomedical Research Tower, The Ohio State University, Columbus, Oh., January 6, 2011.


Miller SF. Lecturer. Introduction to wound healing. Presented at Burn Management for Nurses, The Ohio State University Medical Center, Columbus, Oh., May 19, 2011.

Miller SF. Lecturer. Advanced trauma life support. Central Ohio Trauma System, Columbus, Oh., February 12, 2011.

Miller SF. Crash and burn. Medics Fire Station Pataskala, Oh., December 2, 2010.


Mitchell K, Stewart T. Hospital visit. Adena Regional Medical Center, Chillicothe, Oh., August 24, 2010.


Porshinsky B. Things that go BOOM. Medics, Columbus, Oh., December 11, 2010.


Steinberg SM. The current management of hemorrhage in trauma: Cut well, sew well, sleep well. Genesis Health Care System, Zanesville, Oh., October 27, 2010.


Stewart T. Trauma triage. Emergency Medical Services, Adena, Oh., October 21, 2010.

Stewart T. Trauma and pregnancy; Geriatric trauma. Emergency Medical Services, Delaware County, Oh., October 27, 2010.

Whitmill ML. Postoperative fever. Grand Rounds, Licking Memorial Hospital, Newark, Oh., February 7, 2011.
Division of General and Gastrointestinal Surgery
The Division of General and Gastrointestinal Surgery is committed to excellence in education, training, research and clinical care in general surgery, foregut, and colorectal surgery. We strive to offer the newest and most cutting edge treatments. Our surgeons are leaders in their respective fields and we continue to recruit the best and brightest talent to expand our Division’s ability to offer the best to our patients. We continue to make contributions to surgery in the fields of gastroesophageal reflux disease, endoluminal and minimally invasive surgery, bariatric surgery, surgical endoscopy, and the treatment of malignant disease of the gastrointestinal tract, including pancreatic, esophageal and gastric cancer. Surgical Education and the training of medical students, residents, fellows and physicians in practice is an integral piece of our Division’s academic endeavors. We strive as group to cultivate those individuals with a passion for surgery, through one-on-one teaching opportunities, educational course series options, and hands-on instruction in clinical and laboratory settings.

In April 2011, a delegation of OSU surgeons which included Drs. W. Scott Melvin, Jeffrey Hazey and Bradley Needleman traveled to Wenzhou, China. With a $10,000 grant from the OSU Gateway Program, the Center for Minimally Invasive Surgery (CMIS) was able to establish a collaborative relationship between our center and the First Affiliated Hospital, Wenzhou Medical College. This educational collaboration involved developing an institute and a mechanism for surgical training as it relates to minimally invasive surgery. Also, a 2-day educational symposium was held at their hospital and was attended by surgeons from that region of China as well as an international delegation of medical students including several students from the study abroad program at OSU. Topics presented by OSU surgeons at the symposium included lectures on minimally invasive approaches to bariatric surgery, pancreatic surgery, treatment of gastroesophageal reflux disease, natural orifice surgery and the SAGES Fundamentals
of Laparoscopic Surgery (FLS) and Fundamentals of Endoscopic Surgery (FES). OSU medical students also had the opportunity to present a lecture on Secondary and Professional Medical Education Selection and Specialty Selection in the United States Medical System. Future collaboration will be explored over the next year to include visiting scholars from their program visiting OSU CMIS to participate in surgical observations, research and our educational programs as well as quarterly video conferences to discuss updates and new technology in minimally invasive surgery.

In basic and translational science research Chandan K. Sen, PhD, Director of the Comprehensive Wound Center and Vice Chair for Research in the Department of Surgery, is the principal investigator of two active National Institutes of Health research projects and one Department of Defense project with total funding exceeding $4 million. Dr. Sen is the Director of the Laboratory of Molecular Medicine and serves as the Deputy Director of the Davis Heart and Lung Research Institute. Dr. Sen also is the Associate Dean for Translational and Applied Research in the College of Medicine. The primary focus of Dr. Sen’s laboratory is to study tissue injury, repair, remodeling, and survival. Dr. Sen has been named as Chair of the NIH’s Surgery, Anesthesia and Trauma study section. Dr. Sen has presented eight keynote addresses and plenary lectures on the subject during the year in national and international conferences. Dr. Sen is the Executive Director of the Comprehensive Wound Center (CWC), which combines patient care with research and education. The CWC serves over 1500 patient visits a month. The CWC funded its first clinical trial in 2006, and today there are six extramurally-funded trials that either have been completed or are in progress with Dr. Sen as the PI. At present the CWC has over a dozen faculties from six different Colleges making it a truly interdisciplinary program. Dr. Sen has served on the board of directors of the Wound Healing Society. Dr. Sen is the Editor-in-Chief of an international peer-reviewed journal, *Antioxidants & Redox Signaling* (www.liebertpub.com/ars) which has an impact factor of 7.58, ranking number 1 in the field. Dr. Sen serves as the Associate Editor of the prestigious journal *Physiological Genomics*, a publication of the widely respected American Physiological Society. Dr. Sen is the Editor-In-Chief of *Advances in Wound Care* (www.liebertpub.com), the official yearbook of the Wound Healing Society. In addition, Dr. Sen serves on the editorial board of five other journals and as a peer reviewer of over 25 major journals. Dr. Sen is the program director of the Novel Clinical and Translational Methodologies and Pilot Studies programs of the Ohio State Center for Clinical and Translational Research (CCTS). The CCTS was awarded a NIH CTSA grant of $34.1 million. Dr. Sen also serves as a voting member of NIH’s national CTSA Public Private Partnerships Steering Committee. In 2009, he was designated as NIH Champion of Change for The Ohio State University. Dr. Sen also serves as a faculty advisor on the Indian Gateway Project for the OSU Globalization Initiative. The OSU Indian gateway office is expected to open in 2012.

Dr. Sashwati Roy, associate professor of surgery, is building a diabetic wound healing program in partnership with the teams of Drs. Sen, Gordillo, and Melvin. In particular, her program focuses on the mechanisms of resolution of inflammation and impairment of this process in chronic wound of diabetics. The first paper related to this work was published last year [PLoS One. 2010 5(3):e9539]. Dr. Roy is an expert in microarray analyses and data mining in functional genomics, as well as laser capture microdissection. Dr. Roy serves as the Director of the Laser Capture Microdissection Core Facility. She is the principal investigator of an active National Institutes of Health research project with funding exceeding $1.2 million, and is the co-investigator on three wound healing projects. She has recently received a major NIH instrumentation grant for purchase of LCM equipment for the LCM core facility. Dr.
Roy is an adhoc reviewer for NIH ACTS, S10 Sections and a reviewer for NIH challenge grants and veterans affairs (VA). She has published ten papers in reputed journals during this academic year. She has also undertaken editing a book on inflammation that is scheduled to be completed in 2012. In total, Dr. Roy has published over 175 scholastic journal articles and book chapters. In addition, Dr. Roy serves as a peer reviewer of nearly 20 major journals. Dr. Roy is a member of the Signature Program Translational Science Curriculum Sub-Committee. She serves as a chair for the Awards Committee of the Wound Healing Society (WHS). She enjoys working with undergraduates, medical students, and residents interested in the basic/translational science of wound healing.

Dr. Savita Khanna, assistant professor in the Department of Surgery since July 2009, is building a research program on brain injury and rescue. The first paper related to this work was published last year [J Cereb Blood Flow Metab. 2010 Jul; 30(7):1275-87]. She has extensive experience in in vitro and in vivo studies related to mechanisms of neurodegeneration and interventional rescue. Dr. Khanna has received three competitive grants, a Research Investment Fund (RIF) award, an NIH-sponsored Clinical and Translational Science Award (CTSA) Pilot Award, and the Center for Clinical and Translational Science (CCTS) NCTMP Matching Dissemination Funds award within the last two years. Dr. Khanna has served on the DHLRI (Davis Heart and Lung Research Institute) Education Committee since 2009 and was a reviewer for the CCTS Early Stage Investigator Selection Committee last year. She serves as the managing editor for the international peer-reviewed journal, Antioxidants & Redox Signaling, which has an impact factor of 7.581. She also serves as a peer reviewer for twelve major journals. Dr. Khanna has published fifteen papers, five as senior author in reputed journals over the past year. In total, Dr. Khanna has published over eighty-eight journal articles, and has presented her work at meetings and conferences both nationally and internationally. Dr. Khanna works with a highly-skilled team of collaborators (Dr. Cameron Rink, PhD, Dr. Periannan Kuppusamy, PhD, and Dr. Andrew Slivka, MD), and is building a successful laboratory and research program.

Dr. E. Christopher Ellison, the Robert M. Zollinger professor and chairman of Surgery, continues to serve as associate vice president for Health Sciences and vice dean of Clinical Affairs in the College of Medicine and completed his term as the Chair of the American Board of Surgery. He continues to serve as Secretary of the American Surgical Association and Treasurer of the James IV Association of Surgeons. Repeatedly recognized as one of the nation’s top physicians, Dr. Ellison was listed again this year by Best Doctors in America. His book, co-authored with Dr. Thomas E. Williams, Jr. and Dr. Bhagwan Satiani, “The Coming Shortage of Surgeons: Why They Are Disappearing and What That Means for Our Health” was published in September 2009 and is a quantitative analysis of the workforce in orthopedic and thoracic surgery, otolaryngology, obstetrics and gynecology, general surgery, neurosurgery, and urology. In the fall of 2010, along with Robert M. Zollinger Jr MD,FACS, Dr Ellison completed the ninth edition of the Zollinger Atlas of Surgical Operations published by McGraw-Hill. Dr. Ellison maintains an active clinical practice focusing on pancreatic and esophageal diseases, and he continues to serve as an outstanding teacher of medical students and residents.

W. Scott Melvin, MD, professor of surgery is the Chief of the Division, as well as the Director of the Center for Minimally Invasive Surgery and the Senior Vice Chairman for Academic and Administrative Affairs the Department of Surgery. Dr. Melvin’s clinical practice focuses on advanced minimally invasive surgical treatments for gastroesophageal reflux disease and other esophageal disorders, as well as
advanced hepatobiliary surgery. In addition to his leadership within the Medical Center, Dr. Melvin is a member of a variety of local, national and international societies. He is currently the President-Elect for the Society of American Gastrointestinal and Endoscopic Surgeons, Committee Chair of their Business Development Advisory Group, and Chair of the Program Committee. Dr. Melvin is the Editor in Chief of the Journal of Surgical Laparoscopy, Endoscopy & Percutaneous Techniques, and serves on the editorial board of *Surgical Endoscopy and Surgical Innovations*. He is also the American Board of Surgery representative on the Advisory Board in General Surgery for the American College of Surgeons.

Mark W. Arnold, MD, professor of clinical surgery, is the Vice Chair for Education in the Department of Surgery and the Director of the General Surgery residency program. The residency program continues to grow in prestige and volume with 44 residents in total, graduating six per year. Dr. Arnold also participates as an instructor for the Colorectal Fellowship program. This year he was named Chair of the OSUMC Duty Hour Task Force, which was charged with reviewing the new resident hour regulations and the challenges they pose to collaboratively come up with changes in departmental and institutional systems to adequately address them. While participating in all levels of education, he maintains a busy clinical practice that focuses on treatment of colorectal diseases and disorders.

Alan Harzman, MD, assistant professor of clinical surgery, continues to expand his busy clinical practice specializing in treatment of benign and malignant disease of the colon. His primary clinical focus is the treatment of colorectal diseases and disorders, offering advanced minimally invasive approaches for many. In addition to clinical duties, Dr. Harzman is a valued member of the medical staff community, serving on eight different Medical Center and College of Medicine committees. This year he was elected the Vice President/President Elect of the Faculty Council for the College of Medicine. The position is a two-year term and is voted on by his committee peers. Dr. Harzman is educator for both residents and medical students alike and serves as the assistant clerkship director for the Department of Surgery. In June Dr. Harzman attended the Harvard Macy Institute's Leading Innovations in Health Care and Education program focused on adapting principles of innovation, management and teamwork to medical education. His project from that focuses on integrating deliberate practice and disruptive technologies into student and resident education.

Jeffrey Hazey, MD is associate professor of surgery and the director of the Fellowship in Advanced Therapeutic Endoscopy and Gastrointestinal Surgery. Dr. Hazey is an active member on hospitals-based committees and serves as an at-large member on the OSU Surgery Board of Directors, the OUMC Health Systems Physician Executive Council, and is the surgery representative on both the Integrated Health Information Systems Implementation Committee and the OpTime Steering Committee. His clinical practice focuses on advanced therapeutic endoscopy, including ERCP, as well as advanced minimally invasive surgical procedures.

Dr. Hazey is a committed educator both within our Medical Center, training medical students, residents and practicing physicians in continuing medical education courses, and beyond where he participates in educational activities and committees on a national level. Dr. Hazey is a member of many different committees within the Society of American Gastrointestinal Endoscopic Surgeons (SAGES), including the Flexible Endoscopy Committee, the development team for the Fundamentals of Endoscopic Surgery (FES), and the Global Initiative Council. This year Dr. Hazey traveled to the Wenzhou Medical College in China with a small delegation from the Division to lecture and educate local surgeons in minimally invasive surgical procedures and techniques.
Syed Husain, MD, assistant professor of clinical surgery, continues to grow his clinical practice, with a specialty focus on minimally invasive treatments for benign and malignant colon and rectal disease. In addition to his clinical duties, Dr. Husain has participated as a guest lecturer at a number of regional and national meetings, including a panel session on Ischemic Colitis and Gastrointestinal Hemorrhage. Colonic Emergencies at the 2010 American College of Surgeons meeting held in Washington, DC. He is an active participant in medical student and resident educational activities, as well as the Colorectal Fellowship program.

Andrei Manilchuk, MD, assistant professor of clinical surgery, continues to grow his clinical practice in general surgery, focusing on complicated hernia repair and hepatobiliary disease. He participates in various workshops in advanced surgical techniques for colon surgery and for abdominal wall reconstruction and continues to be a valuable resource for a variety of advanced surgical diseases. Dr. Manilchuk is a dedicated educator of residents and medical students alike, often recognized for his achievements in this arena.

Dean Mikami, MD, assistant professor of surgery, has been an active member of our Division since 2003. His clinical practice focuses on advanced minimally invasive surgical procedures specializing in laparoscopic bariatric surgery, minimally invasive approaches for hernia repair, and novel endoluminal therapies. Dr. Mikami is active on multiple committees within the Medical Center, including the Quality Assurance and Patient Affairs Committee and Professionalism Committee. On a national level he plays an active role in both the Society of American Gastrointestinal and Endoscopic Surgeons and the American Society of Metabolic and Bariatric Surgery, serving on multiple subcommittees. Dr. Mikami is a frequently invited speaker on both minimally invasive surgical treatment options for obesity and laparoscopic hernia repair. He served on the editorial board for the book Evidence Based Minimally Invasive Surgery which was published this year.

Peter Muscarella, MD, associate professor of surgery, serves as the assistant program director for the Surgical Residency Training Program and the Director of the Surgical Clerkship for medical students. Under his direction the Department of Surgery has implement the American College of Surgeon’s (ACS) Surgical Skills Curriculum for all general surgery residents. Dr. Muscarella is committed to the cultivation of medical students interested in pursuing a career in surgery. He is the mentor for the Honors Program in Surgery, which accepts only the best and brightest medical students, and helps them to understand and appreciate the ever changing field of surgery. Dr. Muscarella’s research focuses on gastrointestinal disorders, and he has an extremely busy practice that focuses on surgical management of pancreatic diseases and disorders.

Vimal Narula, MD, assistant professor of clinical surgery, continues to expand his clinical practice with a focus on advanced therapeutic endoscopy, including ERCP, and minimally invasive surgical treatments for common general surgery procedures. Dr. Narula is an active member of the educational team, and serves as an instructor for continuing medical education courses offered through the Center for Minimally Invasive Surgery and is a committed instructor for Surgical Skills Curriculum and Fundamental of Laparoscopic Surgery for the general surgery residents. This year Dr. Narula was accepted in the Faculty Teaching Scholars Program (FTSP), which couples work on teaching Skills, scholarship training and a
project. Continuing to participate in the expanding field of NOTES research, Dr. Narula leads an investigator initiated study looking at the safety and feasibility of transvaginal cholecystectomy. He performed the first transvaginal cholecystectomies in the state of Ohio. This study is a stepping stone to a larger, multi-center trial sponsored by Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR).

In October 2010, Bradley Needleman, MD, associate professor of clinical surgery, was appointed the Director of the Comprehensive Weight Management Center and the Metabolic Bariatric Surgery Center at The OSU Medical Center. This appointment is an expansion of his previous role as the Bariatric Surgery Director, and allows for increased program integration and oversight of all aspects of the weight management program offerings at OSUMC. In this role Dr. Needleman looks forward to continuing the expansion of the case volume for bariatric surgery, as well as streamlining and personalizing the experience for the patient. Beyond his leadership role with the Medical Center, Dr. Needleman continues to cultivate professional ties with colleagues at the Wenzhou Medical College. Returning to China this past spring with other members of the Division, Dr. Needleman participated in ongoing educational endeavors to bring minimally invasive surgical procedures and techniques to the people of this region.

Kyle Perry, MD, assistant professor of surgery, joined our Division in July 2009. His clinical practice focuses on the treatment of benign and malignant esophageal and gastric disorders including esophageal and gastric cancer, Barrett’s esophagus and minimally invasive approaches to gastroesophageal reflux disease (GERD). Beyond the medical center, Dr. Perry is an active member in the Society of American Gastrointestinal Endoscopic Surgeons where he serves on five individual committees and serves as an ad hoc manuscript reviewer for national journal publications. His current research endeavors include funding from SAGES for an ongoing project entitled “Identifying the Optimal Duration of Gastric Ischemic Conditioning to Improve Gastroesophageal Anastomotic Wound Healing” and he serves as the Site PI in a multi-center trial entitled “Randomized Esophyx Versus Sham/Placebo Controlled TIF Trial: The RESPECT study”.

Dr. David Renton, assistant professor of clinical surgery, became a member of our team in August 2009. His clinical practice at University Hospital East focuses on minimally invasive treatment options for a variety of gastrointestinal surgical operations, including “single-incision” options for such common operations as gall bladder removal, hernia repair, and some colorectal procedures. His dedication and interest in surgical education is also an asset to our team, and this year Dr. Renton led all of the hands-on Surgical Skills labs for the rotating Med III students. These courses run every eight weeks and teach 3rd year medical students laparoscopic skills, which include modules from the Fundamentals of Laparoscopic Surgery training they will encounter in residency.

Richard Schlanger, MD, PhD, associate professor of clinical surgery, serves as the Chief of Surgical Services at University Hospital East and the Clinical Director of the Comprehensive Wound Center of The Ohio State University. He maintains an extremely busy general surgery clinical practice, with special focus on complex wounds. Dr. Schlanger is a recognized leader in clinical wound care research and is frequently an invited speaker on the national and international level. He participates in the monthly wound care course sponsored in part by the National Healing Corporation, teaching the latest in wound care to physicians, nurses and other health care professionals. This year he has been a leader in the Heal
Ohio movement, to connect all the major hospital systems statewide to achieve best practice. Dr. Schlanger is a team member, along with Dr. Sen and Dr. Gordillo, in linking major university wound research and clinical programs with the CWC at Ohio State. These include the University of Miami (FL), University of Pennsylvania, Stanford University, UCLA, Harvard, and Vanderbilt. Additionally, Dr. Schlanger is on the planning committee for the Wound Care Conferences at OSU held each spring. The symposium is a showcase of basic science and clinic research done by the top people in the world. He continues to work as a special consultant on negative vacuum therapy and pressure ulcers to the Congress of the United States. Dr. Schlanger serves on several corporate boards for wound care product purchasing and evaluation and holds several patents for inventions to help diagnose wounds as well as dressing placement.

Minimally Invasive Surgery
The Center for Minimally Invasive Surgery (CMIS) is a multidisciplinary center dedicated to the achievement of excellence in patient care, clinical training, research and outcomes studies pertaining to the techniques and technology of minimally invasive surgery. The Center strives to expand the ever-changing field of surgery and 2010-2011 brought continued expansion of our educational and research endeavors.

Research
At The Ohio State University’s Center for Minimally Invasive Surgery (OSU-CMIS), surgeons and researchers are continuously pushing the boundaries of current surgical techniques. Over the past several years, Natural Orifice Transluminal Endoscopic Surgery, or NOTES, the process of performing surgery through naturally existing orifices, thus eliminating the need for external incisions, has been a prevalent topic in clinical research. We continue to focus our efforts on new developments in technology and techniques for NOTES, with the hope that someday common surgical procedures can be totally incisionless.

This year, Dr. Vimal K. Narula performed the first and second transvaginal cholecystectomies in Ohio as part of an investigator-initiated Natural Orifice Transluminal Endoscopic Surgery (NOTES) clinical study. On a Likert satisfaction scale, both patients reported that they are “most satisfied, very happy” with the surgical procedure and would recommend this surgical approach to other women. OSUMC has been selected as a site in a NOTES cholecystectomy multicenter clinical trial sponsored by the Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR). NOSCAR, a non-profit organization formed in July 2005 to further NOTES research, is supported by the American Society for Gastrointestinal Endoscopy (ASGE) and the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES). Enrollment in this study is targeted to begin later this year.

The field of obesity surgery also continues to be a focus. Bradley J. Needleman, MD, director of the OSU Bariatric Surgery Program, continues to follow 12 patients who received laparoscopic greater curvature placation (LGCP) surgery in 2009 and 2010 as part of a multi-center clinical study to evaluate this new bariatric surgery. LGCP is a restrictive bariatric procedure similar to vertical sleeve gastrectomy (VSG) without the need for gastric resection. In the procedure, the stomach’s volume is reduced by dissecting the greater omentum and short gastric vessels, as in VSG, and the greater curvature is imbricated using multiple rows of non-absorbable sutures.
Metabolic disorders, such as diabetes, are some of the fastest growing complications that arise from obesity. Treatment of obesity with surgical intervention often leads to resolution of such metabolic disorders. Dara Schuster, MD, who holds a joint appointment with the Division of Endocrinology, Diabetes and Metabolism and the Division of General and Gastrointestinal Surgery, received a $525,451 grant from Covidien for a project entitled: “Metabolic Surgery vs. Medical Management for Resolution of Type II Diabetes: A Prospective Group Match Study.” As part of this study, morbidly obese patients with diabetes who choose to undergo Roux-en-Y gastric bypass surgery or who choose best medical management are followed for two years to ascertain whether diabetes improves or resolves as a result of surgical or medical intervention. This study will enroll a total of 120 subjects: 60 in the surgical intervention arm and 60 in the best medical management arm. Enrollment in this study is ongoing.

Finally, Abdulfatah Issak, a medical student who worked with CMIS last summer and was mentored by Alan Harzman, MD, received a $4,000 grant from the American Society of Colon and Rectal Surgeons (ASCRS) for his project entitled, “Working Against the Camera.” Prior to notification of the ASCRS award, Mr. Issak was awarded a Roessler scholarship for the same project.

**Education**

This year, CMIS continued to focus a large portion of its educational mission on surgical resident education in addition to continuing medical education (CME) and Non-CME courses for practicing surgeons. In accordance with new guidelines from the American College of Surgeons (ACS) dictating skills training for residents, CMIS along with the Department of Surgery residency training program began to offer weekly surgical skills labs based on various modules included in the ACS surgical skills curriculum for residents. Each week, different levels of post graduate year (PGY) learners attend a two-hour skills lab in either an animate, inanimate or didactic setting taught by an attending surgeon or expert in the area. Sessions vary in topic based on the training level of the learner. Attendance at weekly skills labs are mandatory and have been very well received overall.

In addition to these weekly skills labs, ten CME and non-CME courses were held during July 2010- June 2011 with over 190 participants including practicing surgeons, allied health professionals, surgical fellows and residents. Course topics included minimally invasive hernia surgery including abdominal wall reconstruction, laparoscopic colon surgery, endoluminal treatments for GERD and weight loss, and robotic urologic surgery. Included this year in our CME course offerings was our 11th annual Advances in Minimally Invasive Surgery conference held in Marco Island, Florida co-hosted with Case Western Reserve University Department of Surgery. In attendance were over 45 surgeons, residents, fellows and allied healthcare professionals. This 3-day program offered a comprehensive look at new techniques and technologies related to the most recent advances in minimally invasive surgery and featured a faculty of leading experts in the field. Topics covered will include advances in minimally invasive surgical approaches for: inguinal and ventral hernia repair, abdominal wall reconstruction and component separation, socioeconomic issues, management of surgical complications, difficult cholecystectomies and management of biliary leaks, and single incision laparoscopy.

This year, we also saw continued success of the OSU Allied Health Robotics Training programs. Under the direction of Lynda Jayjohn, nurse manager for robotic surgery, beginner and intermediate/advanced
courses for perioperative team members working in a robotic operating room. Programs are tailored to fit the needs of each program that attends. Key course topics include troubleshooting, flow management, OR efficiency, staffing needs/management and marketing. Sixty eight participants have attended these training programs since July 2010.

Our minimally invasive surgery training program, which is a one-year, dedicated experience in advanced laparoscopic surgery, remains a well sought after position. This year we welcomed two new clinical assistant professors, Dr. John Linn and Dr. Sabrena Noria. Dr. Linn had a very busy clinical year, completing more than 400 advanced laparoscopic surgeries and endoscopies. He participated in a number of research projects during his time at OSU, which lead to presentations at the national level and will lead to future publications. Dr. Linn will be joining NorthShore University Health System in August and his future practice will focus on minimally invasive surgery as well as bariatric surgery. Dr. Noria was also a very active member of the team this year, completing over 400 advanced laparoscopic and endoscopic procedures. In addition to her clinical responsibilities, she participated in research and in multiple CMIS continuing medical education programs and resident skills labs. Dr. Noria’s future practice will focus on minimally invasive bariatric surgery.

Additionally, the Center for Minimally Invasive Surgery welcomed Dr. Bradley Zagol, clinical assistant professor of surgery, who completed a one year training program in Advanced Therapeutic Endoscopy and Gastrointestinal Surgery. Dr. Zagol had a very busy clinical year, completing more than 500 advanced endoscopic procedures including ERCP in addition to his surgical case load. He participated in a number of research projects, continuing medical education programs and resident surgical skills labs. Dr. Zagol will be stationed as a staff surgeon at Womack Army Medical Center in Fort Bragg, North Carolina beginning in July 2011.
Faculty

W. Scott Melvin, MD
Professor of Surgery; Vice Chairman for Academic Affairs, Department of Surgery; Chief, Division of General and Gastrointestinal Surgery; Director, Center for Minimally Invasive Surgery
BS: Ohio Northern University, Ada, Oh., 1983
MD: Medical College of Ohio, Toledo, Oh., 1987
Specialty Training: University of Maryland, College Park, Md.; Ohio Digestive Disease Institute, Columbus, Oh.
Appointment: 1993
Specialty Interests: Gastrointestinal, hepatobiliary, and pancreatic surgery; advanced laparoscopic techniques
Research Interests: Laparoscopic surgery education and training, molecular biology of pancreatic cancer, experimental therapies for pancreatic cancer

Mark W. Arnold, MD
Professor of Clinical Surgery; Vice Chairman for Surgical Education, Department of Surgery
BA: University of Virginia, Charlottesville, Va., 1979
MD: New York University, New York, NY, 1983
Specialty Training: Jackson Memorial Hospital, University of Miami Medical Center, Miami, Fl.; Grant Medical Center, Columbus, Oh.
Appointment: 1990
Specialty Interests: Colon and rectal surgery
Research Interests: Radioimmunoguided antibodies for diagnosis and treatment of colon and rectal cancers

E. Christopher Ellison, MD
The Robert M. Zollinger Professor of Surgery; Chairman, Department of Surgery; Associate Vice President for Health Sciences and Vice Dean of Clinical Affairs, College of Medicine
BS: University of Wisconsin, Madison, Wi., 1972
MD: Medical College of Wisconsin, Milwaukee, Wi., 1976
Specialty Training: The Ohio State University, Columbus, Oh.
Appointment: 1993
Specialty Interests: Surgery of the liver, biliary tree, and pancreas
Research Interests: Gastrinoma and Zollinger-Ellison syndrome, pancreatic and hepatic cancer
Alan E. Harzman, MD
Assistant Professor of Clinical Surgery
BS: Vanderbilt University, Nashville, Tn., 1997
MD: Washington University, St. Louis, Mo., 2001
Specialty Training: Residency in general surgery, University of Texas Southwestern Medical Center, Dallas, Tx.; fellowship in colon and rectal surgery, Baylor University Medical Center, Dallas, Tx.
Appointment: 2007
Specialty Interests: General surgery, colon and rectal surgery
Research Interests: General surgery, colon and rectal surgery

Jeffrey W. Hazey, MD
Associate Professor of Surgery
BA: Miami University, Oxford, Oh., 1987
MD: Case Western Reserve University, Cleveland, Oh., 1992
Specialty Training: Residency in general surgery, University Hospitals of Cleveland; fellowship in nutrition and surgery research, Case Western Reserve University/Mount Sinai Medical Center; fellowship in advanced laparoscopic and endoscopic surgery, Cleveland Clinic, Cleveland, Oh.
Appointment: 2003
Specialty Interests: Minimally invasive surgery, advanced endoscopy, endoscopic retrograde cholangiopancreatography
Research Interests: Minimally invasive surgery, natural orifice transluminal endoscopic surgery (NOTES), endolumenal treatment options

Syed G. Husain, MD
Assistant Professor of Clinical Surgery
MBBS: Dow Medical College, Karachi, Pakistan
Specialty Training: Residency in general surgery, Harlem Hospital Center, New York, NY; fellowship in clinical research, University of Illinois at Chicago, Il.; fellowship in minimally invasive surgery, University of Rochester, Rochester, NY; fellowship in colorectal surgery, Brown University, Providence, RI
Appointment: 2008
Specialty interests: Minimally invasive colorectal surgery
Research Interests: Natural orifice transluminal endoscopic surgery (NOTES)
Savita Khanna, PhD
Assistant Professor of Surgery
BS: Meerut University, Meerut, Uttar Pradesh, India, 1984
MS: Meerut University, Meerut, Uttar Pradesh, India, 1986
MPh: Meerut University, Meerut, Uttar Pradesh, India, 1988
PhD: University of Kuopio, Kuopio, Finland, 2000
Specialty Training: Research fellowship in molecular and cell biology, University of California, Berkeley
Appointment: 2009
Research Interests: Tissue injury and repair, neurodegeneration and stroke

John G. Linn, MD
Clinical Assistant Professor of Surgery
BS: University of Notre Dame, Notre Dame, In., 2011
MD: Medical College of Wisconsin, Milwaukee, Wi., 2005
Specialty Training: General surgery residency, Northwestern University, Chicago, Il.
Appointment: 2010
Specialty Interests: Advanced laparoscopy, gastrointestinal surgery
Research Interests: Advanced laparoscopy, gastrointestinal surgery, surgical education

Andrei V. Manilchuk, MD
Assistant Professor of Clinical Surgery
MD: Gorky State Medical Institute, Nizhny Novgorod, Russia, 1984
Specialty Training: General surgery and surgical oncology, Nizhny Novgorod Medical Academy and Regional Cancer Center, Nizhny Novgorod, Russia; general surgery, The Ohio State University, Columbus, Oh.
Appointment: 2003
Specialty Interests: Gastrointestinal and pancreatobiliary surgery

Dean J. Mikami, MD
Assistant Professor of Surgery
BA: University of Hawaii, Manoa, Hi., 1991
MD: University of Kansas, Kansas City, Ks., 1997
Specialty Training: Residency in general surgery and fellowship in minimally invasive surgery, The Ohio State University, Columbus, Oh.
Appointment: 2003
Specialty Interests: Minimally invasive surgery, bariatric surgery, hernia treatment options
Research Interests: Minimally invasive surgery, natural orifice translumenal endoscopic surgery (NOTES)
Peter Muscarella, II, MD  
Associate Professor of Surgery; Director, Surgical Clerkship  
BS: University of Rochester, Rochester, NY, 1989  
MD: New York Medical College, Valhalla, NY, 1993  
Specialty Training: Residency in general surgery, The Ohio State University, Columbus, Oh.  
Appointment: 2000  
Specialty Interests: General surgery, endocrine gastrointestinal disease, liver, pancreas  
Research Interests: Pancreatic cancer, pancreatic neuroendocrine tumors

Vimal K. Narula, MD  
Assistant Professor of Clinical Surgery  
BS: Marshall University, Huntington, WV, 1995  
MD: Marshall University, Huntington, WV, 1999  
Specialty Training: Residency in general surgery, Marshall University; fellowship in minimally invasive surgery and fellowship in advanced therapeutic endoscopy, The Ohio State University, Columbus, Oh.  
Appointment: 2005  
Specialty Interests: Minimally invasive surgery, foregut surgery, advanced therapeutic endoscopy  
Research Interests: Natural orifice translumenal endoscopic surgery (NOTES), robotic surgery

Sabrena F. Noria, MD  
Clinical Assistant Professor of Surgery  
BS: University of Toronto, Toronto, Ontario, Canada, 1994  
MD: University of Toronto, Toronto, Ontario, Canada, 2005  
PhD: University of Toronto, Toronto, Ontario, Canada, 2001  
Specialty Training: General surgery residency, University of Toronto  
Appointment: 2010  
Specialty Interests: Minimally invasive surgery, bariatric surgery  
Research Interests: Bariatric surgery

Bradley J. Needleman, MD  
Associate Professor of Clinical Surgery; Director, Bariatric Surgery Program  
BA: Vassar College, Poughkeepsie, NY, 1990  
MD: Mount Sinai School of Medicine, New York, NY, 1994  
Specialty Training: Residency in general surgery, Washington Hospital Center, Washington, D.C.; fellowship in minimally invasive surgery, The Ohio State University, Columbus, Oh.  
Appointment: 2000  
Specialty Interests: Advanced laparoscopic surgery, obesity surgery  
Research Interests: Minimally invasive surgery, surgical education
David Renton, MD  
Assistant Professor of Clinical Surgery  
BS: Tulane University, New Orleans, La., 1994  
MD: Louisiana State University, New Orleans, La., 2001  
Specialty Training: Master of Public Health, Tulane University School of Public Health, New Orleans, La., 1997  
Appointment: 2009  
Specialty Interests: Bariatrics, natural orifice translumenal endoscopy surgery (NOTES)  
Research Interests: Advanced technology

Sashwati Roy, PhD  
Associate Professor of Surgery  
BS: Meerut University, Meerut, India, 1984  
MS: Meerut University, Meerut, India, 1986  
PhD: University of Kuopio, Kuopio, Finland, 1994  
Appointment: 2000  
Research Interests: Antioxidant and redox biology focusing on signal transduction and gene expression

Richard E. Schlanger, MD, PhD  
Associate Professor of Clinical Surgery; Director, Center of Advanced Wound Management and chief, Surgical Services, University Hospital East  
MD: Faculté de Medicine, Toulouse, France, 1980  
PhD: Faculté de Medicine, Toulouse, France, 1982  
Specialty Training: The Ohio State University, Columbus, Oh.  
Appointment: 2000  
Specialty Interests: General surgery, wound healing  
Research Interests: Wound healing

Chandan K. Sen, PhD  
Professor of Surgery; Vice Chairman for Research, Department of Surgery; Associate Dean for Translational and Applied Research, College of Medicine; Deputy Director, Davis Heart and Lung Research Institute; Director, DNA Microarray and Genetics Facility, Davis Heart and Lung Research Institute; Professor, Department of Molecular and Cellular Biochemistry  
BS: Calcutta University, Calcutta, India, 1987  
MS: Calcutta University, Calcutta, India, 1990  
PhD: University of Kuopio, Kuopio, Finland, 1994  
Appointment: 2000  
Research Interests: Wound healing, redox control of biological events, role of oxygen- and nitrogen-derived species in signal transduction and gene expression
Eric T. Volckmann, MD
Clinical Assistant Professor of Surgery
BS: University of North Carolina, Chapel Hill, NC, 1998
MD: University of North Carolina School of Medicine, Chapel Hill, NC, 2002
Specialty Training: McGaw Medical Center, Northwestern University, Chicago, Il.
Appointment: 2009
Specialty Interests: Minimally invasive gastrointestinal and bariatric surgery
Research Interests: Outcomes in minimally invasive surgery, natural orifice transluminal surgery, surgical device development

Bradley R. Zagol, MD
Clinical Assistant Professor of Surgery
BS: United States Military Academy, West Point, NY, 1998
MD: Temple University School of Medicine, Philadelphia, Pa., 2002
Specialty Training: General surgery residency, Walter Reed Army Medical Center, Washington, DC; Chief of general surgery, Reynolds Army Community Hospital, Fort Sill, Ok.
Appointment: 2010
Specialty Interests: Minimally invasive surgery, bariatric surgery
Research Interests: Bariatric surgery

Clinical Faculty

Robert E. Falcone, MD
Clinical Professor of Surgery
BA: Kent State University, Kent, Oh., 1973
MD: The Ohio State University, Columbus, Oh., 1976

Jeffrey T. Innes, MD
Clinical Assistant Professor of Surgery
BS: University of California, Davis, Ca., 1976
MD: University of California, Davis, Ca., 1980

Bruce A. Kerner, MD
Clinical Assistant Professor of Surgery
BS: University of Tampa, Tampa, Fl., 1980
MD: Chicago Medical School, Chicago, Il., 1984
Richard C. Rooney, MD
Clinical Assistant Professor of Surgery
BS: University of Cincinnati, Cincinnati, Oh., 1964
MD: University of Cincinnati, Cincinnati, Oh., 1967

Thomas T. Vogel, M.D., PhD
Clinical Assistant Professor of Surgery
BA: Holy Cross College, 1955
PhD: The Ohio State University, Columbus, Oh., 1962
MD: Georgetown University, Washington, DC, 1965

Resident Staff

Yasser M. Ads, MD
PGY-1
BS: University of Michigan, Ann Arbor, Mi., 2005
MD: University of Michigan Medical School, Ann Arbor, Mi., 2010

Catherine E. Beck, MD
PGY-3
BS: University of Wisconsin, Madison, Wi., 2003
MD: The Ohio State University, Columbus, Oh., 2008

Ellen Carraro, MD
PGY-2
BA: Northwestern University, Evanston, Il., 2005
MD: Ohio State University, Columbus, Oh., 2009

Amy L. Collins, MD, MS
Master of Medical Science Program
BS: Florida Atlantic University, Boca Raton, Fl., 2001
MD: University of South Florida, Tampa, Fl., 2007
MS: The Ohio State University, Columbus, Oh., 2010

Andrew O. Crockett, MD
PGY-5
BS: University of Utah, Salt Lake City, Ut., 2001
MD: University of Utah, Salt Lake City, Ut., 2005

H. Tracy Davido, MD
PGY-5
BA: Cleveland State University, Cleveland, Oh., 1993
MD: University of Pittsburgh, Pittsburgh, Pa., 2002
Mary E. Dillhoff, MD, MS
PGY-4
BS: University of Cincinnati, Cincinnati, Oh., 2001
MD: University of Cincinnati, Cincinnati, Oh., 2005
MS: The Ohio State University, Columbus, Oh., 2009

Joseph M. Drosdeck, MD
PGY-1
BA: University of Wisconsin-Milwaukee, Milwaukee, Wi., 2004
MD: University of Wisconsin, Madison, Wi., 2010

Jeffrey L. Eakin, MD
PGY-5
BA: Miami University, Oxford, Oh., 2001
MD: The Ohio State University, Columbus, Oh., 2006

Kenechi K. Ebede, MD
PGY-2
BS: Rutgers University, New Brunswick, NJ, 2002
MD: University of Pennsylvania, Philadelphia, Pa., 2009

David C. Evans, MD
PGY-4
BS: Duke University, Durham, NC, 2002
MD: Duke University, Durham, NC, 2006

Meghan R. Forster, MD, MS
PGY-5
BA: DePauw University, Greencastle, In., 1998
MD: University of Cincinnati, Cincinnati, Oh., 2004
MS: The Ohio State University, Columbus, Oh., 2008

Yuanyuan Gu, MD, PhD
PGY-2
MD: Nanjing University, China, 2005
PhD: University of Cincinnati, Cincinnati, Oh., 2009

Kristan D. Guenterberg, MD, MS
PGY-4
BS: Walla Walla College, College Place, Wa., 2001
MD: Loma Linda University, Loma Linda, Ca., 2005
MS: The Ohio State University, Columbus, Oh., 2009
Ioannis S. Hatzaras, MD, MPH  
PGY-5  
**MD:** Aristotle University of Thessaloniki, Thessaloniki, Greece, 2002  
**MPH:** The Ohio State University, Columbus, Oh., 2010

Lisa M. Haubert, MD, MS  
PGY-4  
**BS:** University of Akron, Akron, Oh., 2002  
**MD:** The Ohio State University, Columbus, Oh., 2006  
**MS:** The Ohio State University, Columbus, Oh., 2010

Russell G. Hendrick, Jr, MD, MS  
PGY-3  
**BS:** Louisiana State University, Baton Rouge, La., 2001  
**MS:** Louisiana State University, Baton Rouge, La., 2003  
**MD:** Louisiana State University, New Orleans, La., 2008

Jon C. Henry, MD  
Master of Medical Science Program  
**BS:** The Ohio State University, Columbus, Oh., 2004  
**MD:** The Ohio State University, Columbus, Oh., 2008

Justin T. Huntington, MD  
PGY-1  
**BA:** Miami University, Oxford, Oh., 2006  
**MD:** The Ohio State University, Columbus, Oh., 2010

Iyore A. James, MD, MALD, MS  
PGY-4  
**BS:** University of Massachusetts, Worcester, Ma., 2001  
**MD:** Tufts University, Boston, Ma., 2006  
**MALD:** Tufts University, Boston, Ma., 2006  
**MS:** The Ohio State University, Columbus, Oh., 2010

Michelle Y. Kincaid, MD, MS  
PGY-3  
**BA:** Johns Hopkins University, Baltimore, Md., 2002  
**MD:** University of Maryland, Baltimore, Md., 2007  
**MS:** The Ohio State University, Columbus, Oh., 2010

Maureen E. Kuhrt, MD, MS  
PGY-3  
**BA:** Cornell University, Ithaca, NY, 2003  
**MD:** University of Connecticut, Farmington, Ct., 2007  
**MS:** The Ohio State University, Columbus, Oh., 2010
Nicholas V. Latchana, MD  
PGY-1  
BS: University of Western Ontario, London, Ontario, Canada, 2006  
MD: Albany Medical College, Albany, NY, 2010

Timothy Lautenschlager, MD  
PGY-1  
MD: Philipps University, Marbury, Germany, 2006

Eric A. Luedke, MD  
Master of Medical Science Program  
BS: Marquette University, Milwaukee, Wi., 2003  
MD: Medical College of Wisconsin, Milwaukee, Wi., 2007

Sara E. Martin del Campo, MD  
PGY-2  
BS: Indiana University, Bloomington, In., 2005  
MD: University of Iowa, Iowa City, Ia., 2009

Mika A. B. Matthews, MD  
PGY-2  
BS: University of Michigan, Ann Arbor, Mi., 2005  
MD: Morehouse School of Medicine, Atlanta, Ga., 2009

Targhee J. Morris, MD  
PGY-1  
BA: Brigham Young University, Provo, Ut., 2006  
MD: University of South Dakota, Vermillion, SD, 2010

Theodore W. Nagel, MD  
PGY-3  
BA: St. Olaf College, Northfield, Mn., 2004  
MD: Northwestern University, Evanston, Il., 2008

Samiha Nasser, MD  
PGY-1  
BA: University of Kentucky, Lexington, Ky., 2005  
MD: University of Louisville, Louisville, Ky., 2010

Peter N. Nau, MD, MS  
PGY-4  
BS: St. Olaf College, Northfield, Mn., 2001  
MD: University of Iowa, Iowa City, Ia., 2006  
MS: The Ohio State University, Columbus, Oh., 2010
Abhishek P. Patel, MD
PGY-1
BS: Saint Louis University, Saint Louis, Mo., 2006
MD: University of Missouri, Columbia, Mo., 2010

Laura A. Peterson, MD
Master of Medical Science Program
BS: University of Wisconsin, Madison, Wi., 2004
MD: University of Wisconsin, Madison, Wi., 2008

Thomas A. Pham, MD, MS
Master of Medical Science Program
BS: The Ohio State University, Columbus, Oh., 2003
MD: University of Cincinnati, Cincinnati, Oh., 2007
MS: The Ohio State University, Columbus, Oh., 2011

Robert L. Plews, MD
PGY-1
BS: University of South Florida, Tampa, Fl., 2006
MD: University of South Florida, Tampa, Fl., 2010

Ricardo O. Quarrie, MD, MS
Master of Medical Science Program
BS: Florida State University, Tallahassee, Fl., 2003
MD: The Ohio State University, Columbus, Oh., 2007
MS: The Ohio State University, Columbus, Oh., 2011

Andrei Radulescu, MD, PhD
PGY-1
MD: Universitatea de Medicinas si Farmacie Victor Babes, Timisoara, Romania, 2002
PhD: Universitatea de Medicinas si Farmacie Victor Babes, Timisoara, Romania, 2005

Terrence M. Rager, MD, MS
PGY-1
BS: Pennsylvania State University, University Park, Pa., 2002
MS: Pennsylvania State University, Hershey, Pa., 2006
MD: Pennsylvania State University, Hershey, Pa., 2010

Geoffrey J. Roelant, MD, MS
PGY-3
BS: Michigan Technological University, Houghton, Mi., 1999
MS: Michigan Technological University, Houghton, Mi., 2002
MD: University of Maryland, College Park, Md., 2008
Jennifer S. Schwartz, MD
PGY-2
BS: Vanderbilt University, Nashville, Tn., 2005
MD: University of New York at Syracuse College of Medicine, Syracuse, NY, 2009

Nilay R. Shah, MD
PGY-2
BS: M. P. Shah University, Jamnagar, Gujarat, India, 2006
MD: M. P. Shah University, Jamnagar, Gujarat, India, 2006

Tyler C. Spata, MD
PGY-3
BA: University of Texas, Austin, Tx., 2003
MD: University of Texas, Austin, Tx., 2008

Rachael C. Sullivan, MD
PGY-1
BS: University of Toledo, Toledo, Oh., 2006
MD: The Ohio State University, Columbus, Oh., 2010

Alicia C. Thomas, MD, MS
PGY-4
BS: High Point University, High Point, NC, 2002
MD: University of North Carolina, Chapel Hill, NC, 2006
MS: The Ohio State University, Columbus, Oh., 2010

Mark R. Wendling, MD
PGY-2
BS: Lawrence University, Appleton, Wi., 2004
MD: Medical College of Wisconsin, Milwaukee, Wi., 2009

Jonathan R. Wisler, MD
Master of Medical Science Progrm
BA: Miami University, Oxford, Oh., 2004
MD: University of Cincinnati, Cincinnati, Oh., 2008
Mission

The Division of General and Gastrointestinal Surgery is dedicated to the achievement of excellence in patient care, medical education, clinical training, and basic science and clinical research.

Research Programs

- Wound angiogenesis and healing
- Cardiac remodeling
- Vitamin E and neurodegeneration
- Clinical wound healing
- Cytomegalovirus infections and bacterial sepsis
- Gene therapy and the effects of early genetic changes in pancreatic cancer
- Minimally invasive surgical techniques

Accomplishments in Research

- Faculty members in the division published 123 scholarly articles, abstracts, and chapters.

- Dr. Vimal Narula performed the first transvaginal cholecystectomy in central Ohio for the Center for Minimally Invasive Surgery research project Single Incision Transvaginal Cholecystectomy, Banerjee A, Hazey JW, Renton DB, Zagol B, Melvin WS, Narula VK.

- Received a $10,000 seed grant from the Office of International Affairs OSU Gateway Program to establish a collaborative relationship between our Center for Minimally Invasive Surgery and the First Affiliated Hospital, Wenzhou Medical College in Wenzhou, China.
Active Research Grants

**Harzman AE.** Working against the camera. Am Soc of Colon and Rectal Surgeons. September 2010 – February 2011, $4,000.00. Principal Investigator.


**Hazey JW, Melvin WS.** Transgastric bacterial contamination of the abdomen. Stryker Endoscopy, June 1, 2006 – September 1, 2010, $35,000.

**Khanna S.** Brain injury and repair. OSU College of Medicine Research Investment Fund (RIF). November 2010 – November 2011, $100,000. Principal Investigator.

**Khanna S, Rink C.** The Janus Faces of glutamate: the glucose- and oxygen- dependent role reversal from neurotoxin to neuroprotectant. OSU Center for Clinical and Translational Science (CCTS). December 2009 – November 2010, $25,000. Principal Investigator.


**Melvin WS.** Skill retention and retraining using the da Vinci robot. Akron General Medical Center, May 1, 2009 – May 31, 2010, $21,000.


Sen C. Tissue oxygenation and wound angiogenesis. August 2007 – May 2011, $792,000. Principal Investigator.


Clinical Programs

• Comprehensive gastrointestinal surgery services

• Minimally invasive surgery

• Bariatric surgery

• Benign and malignant esophageal disorders

• Gastroesophageal reflux

• Hepatobiliary and pancreatic cancer

• Treatment of benign and malignant diseases of the colon and rectum

• Wound care

Accomplishments in Clinical Care

• Attending faculty in the division performed 21,928 surgical procedures and received 19,578 outpatient visits.
Clinical Statistics

<table>
<thead>
<tr>
<th>OR Procedures</th>
<th>21,928</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient Visits</td>
<td>19,578</td>
</tr>
<tr>
<td>Admissions</td>
<td>2,926</td>
</tr>
<tr>
<td>Patient Days</td>
<td>17,547</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>5.58</td>
</tr>
</tbody>
</table>

Educational Programs

- Fully-accredited residency in general surgery
- One-year clinical assistant professorship in minimally invasive surgery
- One-year clinical assistant professorship in advanced therapeutic endoscopy
- Honors program in surgery for fourth-year medical students
- Four-week subinternship in general surgery
- Six-week clerkship in general surgery
- Master of medical science program

Accomplishments in Education

- Completion of the general surgery residency by Dr. Andrew Crockett, Dr. H. Tracey Davido, Dr. Jeffrey Eakin, Dr. Meghan Forster and Dr. Ioannis Hatzaras.
- Completion of the clinical assistant professorship in minimally invasive surgery by Dr. John Linn and Dr. Sabrena Noria.
- Completion of the clinical assistant professorship in advanced therapeutic endoscopic surgery by Dr. Bradley Zagol.
- Faculty have trained over 190 surgeons, residents, students and allied healthcare professionals from throughout the United States and international community in educational programs offered through the Center for Minimally Invasive Surgery.
- Established an educational exchange program with representatives from Wenzhou Medical College in Wenzhou, China.
Publications


Memark VC, Anderson JB, Nau PN, Shah N, Needleman BJ, Mikami DJ, Melvin WS, Hazey JW. 2011. Transgastric endoscopic peritoneoscopy does not lead to increased risk of infectious complications. *Surgical Endoscopy* (February 7)


Pham TH, Perry KA, Chang EY, Diggs BS, Dolan JP, Hunter JG, Sheppard BC. 2011. Increased institutional case volume reduces inpatient morbidity and mortality after paraesophageal hernia repair. *Journal of Gastrointestinal Surgery.* (Formally Accepted)


Renton, D, Melvin WS. Laparoscopic ventral hernia repair. World Journal of Surgery. Published online March 22, 2011


Rink C, Khanna S. 2010. Significance of brain tissue oxygenation and the arachidonic acid cascade in stroke. *Antioxid Redox Signal* (August 2)


Zagol B, Mikami DJ. 2011. Advances in transoral fundoplication for oesophageal reflux. Digestive and Liver Disease. (March 5)

Abstracts


Linn JG, Perry KA, Melvin WS. 2011. Reduced port Nissen fundoplication using a single incision multiport access device with flexible instrumentation [Abstract]. Surgical Endoscopy


Book Chapters


Linn J, Mikami DJ. 2011. Recurrent incisional hernia repair. In SAGES Manual of Hernia Repair. Edited by Dr. Brian Jacob and Dr. Bruce Ramshaw. Baton Rouge, La., USA: Springer (Formally Accepted)


**Poster Presentations**


Schlanger, R. Diabetes and Wound care NEOCOM Grand Rounds Internal Medicine: Wound care for non surgeons OB/GYN: wound healing. Wound Healing Society, Dallas, Tx., April 14-20, 2011 Cancer and Wound Care Heal Ohio, November 2010
Schuster DP, Teodorescu M, Foreman K, Mikami D, Needleman BJ. Close monitoring and rapid medication titration is necessary for T2DM subjects after RYGB. Second World Congress for Interventional Therapies for Type 2 Diabetes. Poster #48, March 28, 2011


National Presentations


Hazey JW. Invited Lecture/Debate: SILS vs No SILS. Central Surgical Annual Meeting, Detroit, Mi., March 18, 2011

Hazey JW. Advances in Minimally Invasive Surgery 2011, OSU-Case Western Minimally Invasive Meeting, Marco Island, Fl., February 18-20, 2011

Hazey JW. SAGES Resident Workshop: Gastrointestinal Endoscopy & Laparoscopy: An introduction for surgeons: Ethicon Endo-Surgery Institute, Cincinnati, Oh., February 24-25, 2011

Hazey JW. Faculty, NOTES and Single Incision Laparoscopy Annual Symposium, The yes’s and no’s of transgastric surgery. University of California at San Diego, Ca., November 11-13, 2010

Hazey JW. Transoral foregut surgery course. Human NOTES and Endolumenal Technology. The Ohio State University, Columbus, Oh., September 24, 2010

Hazey JW. NOTES Summit. Annual NOSCAR meeting. Chicago, Il., July 8-9, 2010


Husain S. Faculty Member: Ischemic colitis and gastrointestinal hemorrhage. Panel Session: Colonic Emergencies. American College of Surgeons 2010 Annual Meeting. Washington, DC, October 3-7, 2010


Mikami DJ, Expert. Hernia Surgery. It’s Your Health, It’s Your Health-Hernia Surgery. [Radio], directed by Lisa Davis (Radio Host). performer(s): Dean Mikami, MD. 96.9 FM. Boston, Ma., Created: 2010


Mikami DJ, Presenter. Laparoscopic abdominal wall reconstruction. OSU-Case Western Minimally Invasive Meeting. Marco Island, Fl., February 2011


Mikami DJ, Presenter. Laparoscopic advance ventral hernia repair. OSU-Case Western Minimally Invasive Meeting. Marco Island, Fl., February 2011


Mikami DJ, Presenter. Endoluminal Stomal Reduction. SAGES annual meeting. San Antonio Tx., March, 2011


Mikami DJ, Presenter. Stomal reduction with StomaphyX. Non-invasive Bariatric Techniques Meeting. Lyon, France, May 2011


Mikami DJ, Presenter. Scleratherapy and stomal reduction. ASMBS annual meeting. Orlando Fl., June 2011

Renton DB, Eakin JL. Video presentation on inguinal hernias encountered lateral to the internal ring during laparoscopic inguinal hernia repair. American College of Surgeons. Washington, DC, October 3-7, 2010


Schuster DP. 11th Annual Conference on Obesity, University of South Florida, Orlando, Fl., September 24-26, 2010 (2 lectures given)
Miscellaneous Presentations

Harzman AE. Laparoscopic colorectal cancer surgery. The Ohio State Assembly of AST. Columbus, Oh., March 19, 2011

Husain S. Pelvic floor disorders. Surgery Grand Rounds. Grant Medical Center. Columbus, Oh., December 29, 2010

Husain S. Advanced laparoscopic intestinal and solid organ surgery workshop. Cincinnati, Oh., November 18-19, 2010

Schuster DP. Klassen Research Day for the Division of Cardiology. The pathophysiology of increasing adiposity: Treating the metabolic syndrome, The Ohio State University, Columbus, Oh., May 19, 2010
Pediatric Surgery

Jonathan I. Groner, MD
Interim Chief, Division of Pediatric Surgery

The Division of Pediatric Surgery conducts its clinical, educational, research, and academic programs at Nationwide Children’s Hospital, one of the largest pediatric health care centers in the United States. In 2011, Nationwide Children’s Hospital ranked in all 10 of the U.S. News & World Report categories for best children’s hospitals.

Nationwide Children’s Hospital is uniquely positioned as one of the only hospitals in the United States that is an American College of Surgeons designated Level I pediatric trauma center, an American Burn Association verified pediatric burn center, and a Commission on Accreditation of Rehabilitation Facilities (CARF) approved pediatric rehabilitation center. In addition, the hospital is home to one of the largest pediatric clinical expansions in the United States. The pediatric surgery clinical service will move to the new 12-story, 700,000 square foot hospital tower in January, 2012, and the remainder of clinical operations, including a new emergency department with four state-of-the-art trauma rooms, will be occupied 6 months later. In addition, construction for the third research building, which will add significantly to the current clinical and basic science laboratories, will be completed in the coming year.

The Pediatric Surgical Research Laboratory, directed by Dr. Gail Besner and Dr. David Brigstock, is supported by seven NIH grants that fund basic science and translational research in growth factor biology. Dr. Gail Besner is a member of the Center for Perinatal Research of the Research Institute at Nationwide Children’s Hospital. Her laboratory focuses on heparin-binding epidermal growth factor (HB-EGF) as a potential therapy to necrotizing enterocolitis and ischemia/reperfusion injury. Recent publications from her laboratory demonstrate that deletion of the gene for HB-EGF increases susceptibility for necrotizing enterocolitis, and overexpression of the HB-EGF gene increases resistance to necrotizing enterocolitis and hemorrhagic shock. Dr. Brigstock and his team continue to examine the role of connective tissue growth factor (CTGF) in the development of pancreatitis and hepatic fibro-
sis. In addition, Dr. Brigstock was awarded a patent for the development of “antibodies to heparin-binding growth factor (HBGF) polypeptides” on March 1, 2011.

The Adolescent Bariatric Surgery Program, in collaboration with the Nationwide Children’s Hospital Center for Healthy Weight and Nutrition, continues at a busy pace. Under the direction of Dr. Michael Michalsky, 16 adolescents underwent bariatric procedures in the past year. The program participates in the Teen-LABS (Longitudinal Assessment of Bariatric Surgery) study, a multi-center NIH-funded clinical study consortium designed to investigate safety, efficacy, and longitudinal outcomes among severely obese adolescents who have been treated with bariatric procedures. Nationwide Children’s Hospital will host a national conference on childhood and adolescent obesity in November, 2011.

The Level I Pediatric Trauma Center remains one of the busiest in the United States and oversees the care of over 1500 traumatically and thermally injured children every year. The trauma program’s leadership has been instrumental in the development of the new national Pediatric Trauma Society, and is currently participating in an NIH – sponsored multicenter trial on the management of children with severe traumatic brain injury.

Dr. Jennifer Aldrink is the director of Surgical Oncology at Nationwide Children’s Hospital, and runs the only pediatric surgical oncology clinic in Ohio. She has a special interest in thyroid cancer and melanoma, and is initiating a study to examine the role of imaging radiation on thyroid disease in children, and is also developing a pediatric thyroid center at Nationwide Children’s Hospital. She also serves as the associate surgical director of the Neonatal Intensive Care Unit and has developed a clinical pathway for gastroschisis patients that resulted in significant improvement in their care.

Dr. Gail Besner is Director of the Pediatric Surgery Residency Training Program. Her research is conducted in the Center for Perinatal Research at the Research Institute at Nationwide Children’s Hospital. This year Dr. Besner was Co-Moderator of an International Web Course on Necrotizing Enterocolitis, with attendees representing 20 countries from around the world. She was an invited participant of the American College of Surgeon’s Surgical Investigator Conference. Many publications and presentations resulted from the laboratory this year, and Dr. Besner’s trainees received the Gold Medal Award for the Resident’s Paper Competition from the Columbus Surgical Society, a Post-Doctoral Fellow Research Award from The OSU Medical Center Research Day, and a 2nd Place Prize at the annual meeting of Ohio Chapter of the American College of Surgeons.

Dr. David Brigstock is a Principal Investigator in the Center for Clinical and Translational Research at the Research Institute at Nationwide Children’s Hospital where he is investigating the role of connective tissue growth factor (CTGF) in driving fibrosis after chronic injury in the liver and pancreas, especially in response to ethanol. Dr. Brigstock was a participant in the Society of University Surgeons’ new members poster session at the American Surgical Congress and was an invited speaker at Experimental Biology 2101. He continues to serve as the U.S. editor of The Journal of Endocrinology and was appointed as a member of the Scientific Advisory Board of the International CCN Society.
Dr. Donna Caniano retired as Chief of the Division of Pediatric Surgery and Surgeon-in-Chief of Nationwide Children’s Hospital in November, 2010. The “Donna A. Caniano Symposium” was held in her honor on August 28, 2010. It was hosted by Dr. Jay Grosfeld and Dr. Marshall Schwartz, and featured twelve presentations by Dr. Caniano’s colleagues and trainees.

Dr. Renata Fabia was appointed the director of the American Burn Association verified Pediatric Burn Program at Nationwide Children’s Hospital. This year she introduced the clinical innovation of nurse-regulated burn fluid resuscitation protocols for critically ill children with thermal injuries. She also expanded a nurse-practitioner led burn clinic and developed new sedation protocols for dressing changes. Dr. Fabia also continues to provide care to the majority of the trauma patients and also performs dialysis access for children with chronic renal insufficiency.

Dr. Jonathan Groner is the interim chief of the Division of Pediatric Surgery, and the medical director of the Level I Pediatric Trauma Center. He was an invited speaker at the 18th Annual Trauma Symposium at Memorial Healthcare System and University of Miami Miller School of Medicine. In addition, he was a co-author of an editorial entitled “Pediatric Applied Trauma Research Network: A Call to Action,” which was published in both The Journal of Trauma and The Journal of Pediatric Surgery. He also served on a committee that led to the creation of the new national Pediatric Trauma Society and was nominated for secretary. In his role as interim chief, Dr. Groner has recruited two new faculty members (who will join the Division in September, 2011), orchestrated the transformation of the daily care of pediatric surgery patients to a clinical service model, and instituted a weekly dashboard of group and individual clinical indicators. Dr. Groner is the 2010-2011 recipient of the Division of Pediatric Surgery’s “Denis R. King Teacher of the Year” award.

Dr. Brian Kenney continues as director of the Nationwide Children’s Hospital fellowship in pediatric surgical critical care, which was approved by the Residency Review Committee for five years. In addition, he serves as the Surgical Director for Quality at Nationwide Children’s Hospitals and is a member of the Solutions for Patient Safety of the Ohio Hospital Association and the Ohio Children’s Hospital Association. He is also an active member of the Pediatric National Surgical Quality Improvement Project (NSQIP).

Dr. Denis King continues as medical director of Nutrition Support Services. In recognition of his outstanding service as a surgical educator, he has received two distinct awards from the OSU College of Medicine: (1) the Lifetime Achievement Award for distinction throughout his career in the education of medical students and residents in surgery; and (2) the 2010 “Excellence in Teaching Award” for the Department of Surgery.

Dr. Marc Michalsky is the surgical director of the Center for Healthy Weight and Nutrition at Nationwide Children’s Hospital. Under his leadership, the Adolescent Bariatric Surgery Program has become recognized for its clinical excellence and participation in outcomes research. This year Dr. Michalsky continues his tenure as chairman of the Pediatric Bariatric Committee at ASMBS (American Society for Metabolic and Bariatric Surgery) and was recently appointed to the society’s Research Committee. In addition, Dr. Michalsky serves on the Pediatric Advisory Committee for the
Surgical Review Corporation (SRC) where he is involved in the development of adolescent-specific programmatic guidelines that will be used as the foundation for Adolescent Bariatric Center of Excellence (COE) certification.

Dr. Larry Moss was appointed Surgeon-in-Chief of Nationwide Children’s Hospital and is the E. Thomas Boles Professor of Surgery and Pediatrics. He previously served on the faculty of Stanford University, and was most recently the Surgeon-in-Chief of the Yale New Haven Children’s Hospital. His research interests include necrotizing enterocolitis and surgical outcomes in pediatric surgery, and he has been instrumental in the development of the Pediatric National Surgical Quality Improvement Program (NSQIP). In his new role, Dr. Moss will oversee the development of all of the surgical specialties at Nationwide Children’s Hospital.

Dr. Benedict Nwomeh was appointed Associate Director for the Pediatric Surgery Training Program. In addition, he continues as the Director of Surgical Education and Surgical Director for the Center for Pediatric and Adolescent Inflammatory Bowel Disease at Nationwide Children’s Hospital. This year he received a Master of Public Health, having completed the MPH program for experienced health professionals at the OSU College of Public Health. He has become an international figure in pediatric surgery education, and has directed several courses in Africa.

Dr. Steven Teich remains the surgical director of the Neonatal Intensive Care Unit and surgical director of the ECMO program at Nationwide Children’s Hospital. This year he began the second year of a two-year term as President of the Medical Staff. He continues to collaborate with motility specialists in the pediatric gastroenterology division in development of a gastric stimulator program for children and adolescents with gastroparesis. Nationwide Children’s Hospital is one of the few programs in the United States that performs implantation of gastric stimulators for pediatric patients. This year, Dr. Teich and the motility team will be launching a sacral nerve stimulation program for the management of refractory fecal incontinence in pediatric patients.

In our graduate programs, Dr. David Skarda completed the residency in pediatric surgery. In July 2011, he will join the faculty in pediatric surgery at Primary Children’s Medical Center and the University of Utah School of Medicine in Salt Lake City Utah as an Assistant Professor of Surgery in the Tenure Track, Clinical Scholar Track, and adjunct Associate Professor of pediatrics. Dr. Helena Crowley will begin the chief residency in pediatric surgery. Dr. Johanna Askegard-Giesmmman, who completed a residency in general surgery at the Mayo Clinic in Rochester, Minnesota, will begin the residency in pediatric surgery. Dr. Thomas L. Sims completed the fellowship in pediatric surgical critical care. He will begin a Minimally Invasive Surgery Fellowship at LeBonheur Children’s Hospital, Memphis Tennesse. Dr. Natasha Kelly completed a fellowship in minimally invasive and pediatric bariatric surgery.

The members of the Division of Pediatric Surgery are committed to the educational, research, clinical, and service missions of the Department of Surgery, The Ohio State University College of Medicine and Nationwide Children’s Hospital, and strive to provide the highest quality pediatric surgical care to all of our patients.
Faculty

Jonathan I. Groner, MD
Professor of Clinical Surgery
Interim Chief, Division of Pediatric Surgery
BS: Northwestern University, Evanston, Il., 1982
MD: Northwestern University, Evanston, Il., 1984
Specialty Training: Medical College of Wisconsin, Milwaukee, Wi.; Children’s Hospital, Columbus, Oh.
Appointment: 1999
Specialty Interests: Trauma, burn care
Research Interests: Trauma systems and injury prevention

Jennifer H. Aldrink, MD
Assistant Professor of Clinical Surgery
BA: Wake Forest University, Winston-Salem, NC, 1995
MD: East Carolina University School of Medicine, Greenville, NC, 2000
Specialty Training: Duke University Medical Center, Durham, NC; Nationwide Children’s Hospital, Columbus, Oh.
Appointment: 2009
Research Interests: Osteosarcoma pulmonary metastases, childhood malignancy and obesity, childhood melanoma, gastroschisis

Gail E. Besner, MD
Professor of Surgery
BA: Cornell University, Ithaca, NY, 1978
MD: University of Cincinnati, Cincinnati, Oh., 1982
Specialty Training: Brigham and Women’s Hospital, Boston, Mass.; Children’s Hospital of Buffalo, Buffalo, NY
Appointment: 1991
Specialty Interests: Burns, pediatric laparoscopic surgery
Research Interests: Growth factor involvement in wound healing

David R. Brigstock, PhD
Associate Professor of Surgery
BS: Brunel University, West London, United Kingdom, 1984
PhD: Cambridge University, Cambridge, United Kingdom, 1988
Specialty Training: Harvard University, Cambridge, Ma.
Appointment: 1991
Research Interests: Biology of connective tissue growth factor
Donna A. Caniano, MD
Professor of Surgery; Chief, Division of Pediatric Surgery; the H. William Clatworthy, Jr. Professor in Pediatric Surgery
BA: Vassar College, Poughkeepsie, NY, 1972
MD: Albany Medical College, Albany, NY, 1976
Specialty Training: Albany Medical Center Hospital, Albany, NY; Johns Hopkins University Hospital, Baltimore, Md.; Columbus Children’s Hospital, Columbus, Oh.
Appointment: 1985
Specialty Interests: Neonatal gastrointestinal disorders, Hirschsprung’s disease
Research Interests: Biomedical ethics

Renata B. Fabia, MD, PhD
Assistant Professor of Clinical Surgery
MD: Silesian University School of Medicine, Katowice, Poland, 1985
PhD: Lund University, Lund, Sweden, 1993
Specialty Training: The Ohio State University, Columbus, Oh.; Children’s Medical Center, Dallas, Tx.
Appointment: 2003
Specialty Interests: General surgery in children and adolescents; burn and trauma management
Research Interests: Inflammatory bowel disease, trauma

Brian D. Kenney, MD, MPH
Assistant Professor of Clinical Surgery
BA: University of Notre Dame, South Bend, In., 1979
MD: Medical College of Ohio, Toledo, Oh., 1983
MPH: Harvard University School of Public Health, Boston, Ma., 1990
Specialty Training: University of Montreal, Montreal, Quebec, Canada
Appointment: 2003
Specialty Interests: Laparoscopy, thoracoscopy, critical care, and thoracic surgery
Research Interests: Clinical epidemiology and outcomes research

Denis R. King, MD
Clinical Associate Professor of Surgery
BS: University of Notre Dame, South Bend, In., 1965
MD: Hahnemann Medical College, Philadelphia, Pa., 1969
Specialty Training: The Ohio State University Hospital; Nationwide Children’s Hospital, Columbus, Oh.
Specialty Interests: Cancer, nutrition
Research Interests: Pediatric oncology
Marc P. Michalsky, MD  
Associate Professor of Clinical Surgery  
BA: Brandeis University, Waltham, Ma., 1988  
MD: University of Medicine and Dentistry of New Jersey, Newark, NJ, 1992  
Specialty Training: University of Medicine and Dentistry of New Jersey, Newark, NJ; Columbus Children’s Hospital, Columbus, Oh.  
Appointment: 2004  
Specialty Interests: Minimally invasive surgery, childhood obesity  
Research Interests: Childhood obesity, quality performance, surgical outcomes

R. Lawrence Moss, MD  
E. Thomas Boles Jr. Professor of Surgery; Surgeon-in-Chief  
BA: Stanford University, Stanford Ca., 1982  
MD: University of California San Diego, La Jolla Ca., 1986  
Specialty Training: Virginia Mason Medical Center Seattle Wa., Northwestern University Chicago, Chicago, Il.  
Appointment: 2011  
Specialty Interests: Neonatal surgery, pelvic malformations, ECMO, conjoined twins  
Research Interests: Surgical outcomes, evidence based surgery, necrotizing enterocolitis

Benedict C. Nwomeh, MD, MPH  
Associate Professor of Clinical Surgery  
Undergraduate Degree: Faculty of Science, University of Lagos, Lagos, Nigeria, 1981  
MD: College of Medicine, University of Lagos, Lagos, Nigeria, 1986  
MPH: The Ohio State University, Columbus, Oh., 2011  
Specialty Training: Medical College of Virginia, Virginia Commonwealth University, Richmond, Va.; Children’s Hospital of Pittsburgh, Pittsburgh, Pa.  
Appointment: 2003  
Specialty Interests: Pediatric general surgery, neonatal surgery, pediatric minimally invasive surgery, pediatric thoracic surgery  
Research Interests: Surgical education, clinical outcomes

Steven Teich, MD  
Clinical Associate Professor of Surgery  
BS, MS: Rensselaer Polytechnic Institute, Troy, NY, 1976  
MD: State University of New York at Buffalo, NY, 1981  
Specialty Training: George Washington University Medical Center, Washington, DC; Children’s Hospital of Pittsburgh, Pa.  
Specialty Interests: Epidermolysis bullosa, burns, laparoscopic surgery  
Research Interests: Quality improvement and surgical clinical pathways
Emeritus Faculty

E. Thomas Boles, Jr., MD
Professor Emeritus of Surgery
BS: College of William and Mary, Williamsburg, Va., 1942
MD: Harvard University, Cambridge, Ma., 1945

Resident Staff

David E. Skarda, MD
Clinical Instructor and Chief Resident
BS: Brigham Young University, 1997
MD: Albert Einstein College of Medicine, 2001

Helena M. Crowley, MD
Clinical Instructor and Assistant Chief Resident
BA: Yale University, 1997
MD: Tufts University School of Medicine, 2005

Thomas L. Sims, Jr., MD
Surgical Critical Care Fellow
BS: Bob Jones University, 1998
MD: Medical University of South Carolina, 2003

Natasha M. Kelly, MD
Minimally Invasive Surgery/Bariatric Fellow
BS: City College of New York, 1996
MD: SUNY Health Science Center at Brooklyn, 2000
Mission

The Division of Pediatric Surgery, in alignment with Nationwide Children’s Hospital, is dedicated to fulfilling the CARES mission: providing the highest quality of Care, Advocacy for children, child health Research, Education, and outstanding Service.

Research Programs

The Pediatric Surgery Research Laboratory focuses on two major areas of clinical interest. Dr. Besner’s laboratory studies heparin-binding EGF-like growth factor (HB-EGF) and its ability to protect the intestines from various forms of injury. These research projects continue to be funded by the National Institutes of Health and include:

- Elucidation of the mechanisms by which HB-EGF exerts its protective effects against intestinal injury.
- Studies of the effect of HB-EGF on intestinal stem cells.
- Studies of susceptibility to intestinal injury in HB-EGF transgenic and knockout mice.
- Determination of the signal pathways used by HB-EGF in intestinal cytoprotection.
- Studies of the effects of HB-EGF in several established animal models of intestinal injury.
- Design of HB-EGF clinical trials in the prevention of necrotizing enterocolitis in preterm infants.

The second area of interest is the role played by connective tissue growth factor (CTGF) in scarring and fibrosis. These studies are led by Dr. Brigstock and focus on the fibrotic properties of CTGF, including novel strategies for antagonizing CTGF action in vivo. Current areas of emphasis include:

- Characterization of CTGF receptors and signaling pathways in hepatic or pancreatic stellate cells.
- Regulation of CTGF production by stellate cells.
- Anti-CTGF targeting strategies in the liver and pancreas.
Accomplishments in Research

Gail E. Besner, MD
The Besner laboratory has had significant accomplishments this year. Dr. Besner currently holds three R01 grants from the NIH to continue her basic science research on HB-EGF. In conjunction with her biotechnology contacts, human-grade HB-EGF has been produced and permission from the FDA to begin Phase I trials of HB-EGF in humans has been obtained. Dr. Besner’s research was presented at multiple national meetings this year, including a plenary session presentation at the annual Academic Surgical Congress given by Dr. Chun-Liang Chen from Dr. Besner’s laboratory. Many publications have resulted from this year’s work. Several awards were obtained by Dr. Besner’s research fellows in 2010. These included the 2010 Gold Medal Resident’s Research Award from the Presidential Symposium of the Columbus Surgical Society awarded to Dr. Iyore James, the 2010 Post-doctoral Fellow Research Award from the Ohio State University Medical Center Research Day awarded to Dr. Andrei Radulescu, and the 2010 Second Place Prize from the Ohio Chapter of the American College of Surgeons awarded to Dr. Iyore James.

David R. Brigstock, PhD
Dr. Brigstock continues his NIH-funded studies of the role of connective tissue growth factor (CTGF) in organ fibrosis. He holds two NIH R01 grants to support his work on CTGF-mediated fibrogenic pathways in the liver and pancreas. He also is the recipient of a NCH-OSU collaborative grant with Dr. Ramesh Ganju to study the role of CTGF in HIV/HCV-mediated hepatic pathology. He is also the recipient of two NIH ARRA supplements that provide for equipment improvements in the lab and for summer training of a middle school science teacher (Mr. Todd Martin from The Columbus Academy, Gahanna OH). New intellectual property relating to CTGF antibodies resulted in the granting of US patent 7897732, with Dr. Brigstock as inventor. Post doctoral scientists from Dr. Brigstock’s lab who presented their work at national meetings included Dr. Gaungcun Huang at the 2010 Meeting of the American Association for the Study of Liver Diseases and at the 2010 International Symposium on Cells of the Hepatic Sinusoid (for which Dr Huang received a Trainee Travel award), and Dr. Li Chen at the 2010 Meeting of The American Society for Cell Biology and Digestive Disease Week 2011. As a basic science charter member of the Society of University Surgeons, Dr. Brigstock presented his work at the 2011 Academic Surgical Congress.

Together, Dr. Besner and Dr. Brigstock were honored to present their research projects to the local high school community as co-speakers for the Carol Goldsmith Memorial Science Lecture at the Wellington School in Columbus, November 2010.

Active Research Grants
Aldrink JH. Thyroid Nodules and Radiation Exposure, Thomas Boles Endowment Fund, $20,500.


Besner GE. Role of NO and Endothelin in Human NEC. National Institutes of Health, July 1, 2003-June 30, 2011, $1,250,000.


Brigstock DR. CTGF in Pancreatic Stellate Cell-Mediated Fibrogenesis NIH (NIAAA) September 30, 2007 – August 31, 2012, $1,125,000.


Clinical Programs

- Level I pediatric trauma program with American College of Surgeons verification.
- American Burn Association-verified multidisciplinary pediatric burn center.
- Columbus Fetal Medicine Collaborative in conjunction with The Ohio State University Medical Center, Mount Carmel Health System, and OhioHealth.
- Pediatric and adolescent bariatric surgery program.
- Multidisciplinary ECMO neonatal and pediatric program.
- Minimally invasive pediatric surgery program.
- Chest wall center for comprehensive care of chest wall anomalies.
- Surgical oncology program.

Accomplishments in Clinical Care

- Maturation of outpatient care for children with thermal injuries.
- Maturation of the bariatric surgery program for the treatment of morbidly obese adolescents, and participation in a funded clinical trial using the Lap-Band.
- Development of advanced minimally invasive procedures for thorascopic and laparoscopic management of congenital and acquired lung and intestinal disorders.
- Development of a multi-disciplinary surgical oncology clinic.
Clinical Statistics

<table>
<thead>
<tr>
<th>OR Procedures</th>
<th>3,964</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient Visits</td>
<td>9,958</td>
</tr>
<tr>
<td>Admissions</td>
<td>2,171</td>
</tr>
<tr>
<td>Patient Days</td>
<td>9,465</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>4.36</td>
</tr>
</tbody>
</table>

Educational Programs

- Fully-accredited, two-year residency in pediatric surgery, which accepts one resident per year through the National Residency Match Program. The residency qualifies a candidate for the Certificate of Special Competence in Pediatric Surgery, upon successful completion of the Qualifying and Certifying Examinations in Pediatric Surgery, as given by the American Board of Surgery.

- Fully-accredited fellowship in pediatric surgical critical care, which annually accepts one resident at the PGY-4 level or higher in general surgery. Completion of the fellowship makes a candidate eligible for the Examination in Surgical Critical Care administered by the American Board of Surgery.

- Clinical fellowships in trauma and clinical research and in minimally invasive and adolescent bariatric surgery for senior level residents in general surgery.

- Basic science research fellowships in the Pediatric Surgical Laboratory for residents in accredited programs in general surgery.

- Comprehensive pediatric surgery rotation in the care of infants, children, and adolescents with surgical disease, for junior and senior residents in general surgery from The Ohio State University Medical Center, OhioHealth, and the Mount Carmel Health System.

- Comprehensive pediatric surgery rotation in the care of pediatric patients for interns in the combined Nationwide Children’s Hospital-Doctor’s Hospital pediatrics residency and for fellows in the pediatric critical care medicine fellowship at Children’s Hospital.

- Clinical clerkship in pediatric surgery.

- Subinternship in pediatric surgery.
Accomplishments in Education

- Ongoing clinical research in surgical education techniques by Dr. Benedict Nwomeh.

- Ongoing clinical research on optimal communication with parents of pediatric surgical patients by Dr. Benedict Nwomeh.

- Pediatric Surgery Fellowship re-accredited for a three year period by the ACGME.

Community Outreach Programs

- Injury passenger safety program, part of the Nationwide Children’s Hospital trauma program, which concentrates on child safety seats and bicycle helmets.

- Quarterly publication of Surgical Scene for pediatricians and primary care physicians in the Central Ohio and referral area. Surgical Scene highlights common surgical conditions, their diagnosis, and treatment.

- Regular lectures about pediatric trauma and thermal injury, by physician and nursing members of the Nationwide Children’s Hospital trauma program, presented to emergency services personnel in the Central Ohio and referral area.

Accomplishments in Community Outreach

- Distribution of 534 bicycle helmets to children in Central Ohio, in cooperation with the Columbus Blue Jacket Foundation.

- Inspection of 231 child safety seats and distribution of 605 child safety seats through the trauma program of Nationwide Children’s Hospital.

- Trained 11 NICU staff to be certified child passenger safety technicians (CPST’s).
Publications


Zhou Y and Besner G. Heparin-binding EGF-like growth factor is a neurotrophic factor for PC12 cells. *Neurosignals* 18:141-151, 2010


Chen L, Charrier AL, Leask A, French S Brigstock DR. Ethanol-stimulated differentiated functions of human or mouse hepatic stellate cells are mediated by connective tissue growth factor. J Hepatol 2010 December 13


Abstracts


Chen L, Leask A, Brigstock DR. Ethanol-stimulated differentiated functions of activated human hepatic stellate cells are mediated by connective tissue growth factor Mol Biol Cell 2010, 21 (suppl) A 906/B1393

Chen L, Tsukamoto L, Brigstock DR. Ethanol-dependent expression of connective tissue growth factor is associated with down-regulation of microRNA 214 Gastroenterology 2011 (Suppl)


Books


Caniano DA. A History of Healing: Pediatric Surgery at The Ohio State University College of medicine and Nationwide Children’s Hospital, 1950-2010. The Ohio State University, 2011

Book Chapters


Visiting Professorships

**Groner JI.** Building a trauma program – The Nationwide Children’s Hospital model. (Surgery Grand Rounds), presented at Brenner Children’s Hospital, Wake Forest University Baptist Medical Center, Wake Forest, NC (*visiting professor*)

**Groner JI.** “The good, the bad, and the ugly: Recognition of shock in pediatric trauma” presented at Brenner Children’s Hospital, Wake Forest University Baptist Medical Center, Wake Forest, NC (*visiting professor*)

International Presentations

**Nwomeh BC:** Education research. Fundamentals of Research and Career Development Course. Association for Academic Surgery, Abuja, Nigeria, November 19, 2010

National Presentations


**Aldrink JH, Puthoff T, Schneider J, Caniano DA, Wispe J.** Safety of ketorolac in surgical neonates and infants age 0-3 months, Presented at the 2010 American Academy of Pediatrics, Surgery Section, San Francisco, Ca., October 2-5, 2010


Huang G, Besner G, Brigstock D. HB-EGF attenuates experimental liver fibrosis and reduces hepatic stellate cell activation. Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, Ma., October 2010


Chen C-L, James IO, Yu X, Besner G. HB-EGF protects intestinal stem cells from hypoxic stress via the EGFR/P3K/MAPK pathway. 6th Annual Academic Surgical Congress, Huntington Beach, Ca., Association of Academic Surgery Plenary Session Oral Presentation. February 1, 2011


Chen L, Leask A, Brigstock DR. Ethanol-stimulated differentiated functions of activated human hepatic stellate cells are mediated by connective tissue growth factor. 50th Annual Meeting of ASCB, Philadelphia, Pa., December 11-15, 2010

Brigstock DR. Increased susceptibility to liver fibrosis in mice expressing a connective tissue growth factor transgene in hepatocytes. Academic Surgical Congress, Joint Meeting of Association for Academic Surgery and Society of University Surgeons, Huntington Beach, Ca., February 1-3, 2011

Chen L, Tsukamoto L, Brigstock DR. Ethanol-dependent expression of connective tissue growth factor is associated with down-regulation of microRNA 214 Digestive Disease Week, Chicago, Il., May 6-10, 2011

Groner JI. Bullying and violence in today’s youth. Presented at the 18th Annual Trauma Symposium, Memorial Healthcare System and University of Miami Miller School of Medicine, Hallandale Beach, Fl., February 10, 2011

Groner JI. The role of the adult surgeon in pediatric trauma care. Presented at the 18th Annual Trauma Symposium, Memorial Healthcare System and University of Miami Miller School of Medicine, Hallandale Beach, Fl., February 10, 2011

Groner JI. Pediatric burns. Presented at the 18th Annual Trauma Symposium, Memorial Healthcare System and University of Miami Miller School of Medicine, Hallandale Beach, Fl., February 12, 2011


Oyetunji TA, Nwomeh BC, Ong’uti SK, Gonzalez DO, Cornwell EE, Fullum TM. Improved outcomes for laparoscopic versus open appendectomy in children. Association for Academic Surgery (Annual Academic Surgical Congress), Huntington Beach, Ca., February 4, 2011

Oyetunji TA, Bolorunduro OB, Ong’uti SK, Okoronkwo NP, Cornwell EE, Nwomeh BC. Pediatric negative appendectomy rate: Trend, predictors and differentials. Association for Academic Surgery (Annual Academic Surgical Congress), Huntington Beach, Ca., February 4, 2011

Oyetunji TA, Graf JJ, Bolorunduro OB, Ong’uti SK, Cornwell EE, Nwomeh BC. Neonatal appendicitis: epidemiologic characteristics from a national database. Association for Academic Surgery (Annual Academic Surgical Congress), Huntington Beach, Ca., February 4, 2011

Nwomeh BC and Nadler EP. “The role of academic surgical societies in global health: The AAS Experience” Association for Academic Surgery (Annual Academic Surgical Congress), Huntington Beach, Ca., February 4, 2011

Teich S. Kids with polyposis, quality of life after surgery: Surgical considerations, what it means to have a stoma. Analyze the different surgical approaches to pediatric polyposis. National Society of Genetic Counselors, Dallas, Tx., October 14-17, 2010

Teich S. Gastric stimulator for treatment of patient with pseudo-obstruction-intestinal failure. Symposium, American Pediatric Surgical Association, Palm Desert, Ca., May 22, 2011
**Teich S.** What operations are appropriate and what are the outcomes, ASMBS, Orlando, Fl., June 16, 2011

### Miscellaneous Presentations

**Aldrink JH.** Acute abdomen – Acute Care Lecture Series, Nationwide Children’s Hospital, Columbus, Oh., August 26, 2010

**Aldrink JH.** Pediatric melanoma: How far we have (not) come – Donna A. Caniano Symposium, The Department of Surgery at The Ohio State University and Nationwide Children’s Hospital, Columbus, Oh., August 28, 2010

**Aldrink JH.** Common pediatric surgical problems, Riverside Family Practice Residency Program, Riverside Methodist Hospital, Columbus, Oh., September 15, 2010

**Aldrink JH.** Current surgical studies - Gastrochisis Postoperative Neonatology Retreat, Nationwide Children’s Hospital, Columbus, Oh., February 9, 2011

**Aldrink JH.** Common Pediatric Surgical Emergencies PEM Lecture, Emergency Department, Nationwide Children’s Hospital, Columbus, Oh., March 16, 2011

**Aldrink JH.** Melanoma in children and teenagers. Interview on ONN / CBS television, July, 2010

**Aldrink, JH.** Pediatric surgery – Basic Science Student Lecture, The Ohio State University College of Medicine, Columbus, Oh., March 24, 2011

**Aldrink JH.** NCH Research Day: Neonatal care collaborative to decrease length of stay, Nationwide Children’s Hospital, Columbus, Oh., April 6, 2011

**Aldrink JH.** CHCA Race for Results (R4R): Neonatal care collaborative to decrease length of stay, Nationwide Children’s Hospital, Columbus, Oh., May 2011

**Besner G.** HB-EGF: From bench to bedside, Donna A. Caniano Symposium, Columbus, Oh., August 28, 2010

**Besner G.** Pediatric burn management. Psychology Trainee Lecture Series, Nationwide Children’s Hospital, Columbus, Oh., October 20, 2010

**Besner G.** Big news for small intestines. Annual Carol Goldsmith Lecture Series, Wellington High School, Columbus, Oh., November 5, 2010
**Besner G.** Necrotizing enterocolitis. Neonatology Grand Rounds, Nationwide Children’s Hospital, Columbus, Oh., January 28, 2011

Zhang H-Y, James I, Chen C-L, Wetzl A, Radulescu A, **Besner G.** Heparin-binding EGF-like growth factor preserves gut barrier function by blocking neutrophil-endothelial cell adhesion after hemorrhagic shock and resuscitation in mice. 5th Annual International Scholar Research Exhibition, The Ohio State University College of Medicine, Columbus, Oh., November 17, 2010

Radulescu R, Zhang, H-Y, Yu X, Olson J, Darbyshire A, Chen Y, **Besner G.** Heparin-binding EGF-like growth factor overexpression in transgenic mice increases resistance to necrotizing Enterocolitis. Columbus Surgical Society, Columbus, Oh., March 6, 2011

James I, Zhang H-Y, Chen C-L, Wetzl A, Radulescu A, **Besner G.** Heparin-binding EGF-like growth factor preserves gut barrier function by blocking neutrophil-endothelial cell adhesion after hemorrhagic shock and resuscitation in mice. Columbus Surgical Society, Columbus, Oh., March 6, 2011

James I, Zhang H-Y, Chen C-L, Wetzl A, Radulescu A, **Besner G.** Heparin-binding EGF-like growth factor preserves gut barrier function after hemorrhagic shock and resuscitation in mice. The 22nd Annual Presidential Symposium of the Columbus Surgical Society, Columbus, Oh., March 12, 2011

Yang J, Chen C-L, Watkins D, Zhang H-Y, **Besner G.** Heparin-binding EGF-like growth factor (HB-EGF) and mesenchymal stem cells (MSC) synergistically to prevent experimental necrotizing enterocolitis. Nationwide Children’s Hospital / Ohio State University Research Week, Columbus, Oh., April 14, 2011

Radulescu A, Yang J, Chen C-L, Zhang H-Y, James I, **Besner G.** Heparin-binding EGF-like growth factor (HB-EGF) improves intestinal barrier function and reduces mortality in a murine model of peritonitis. Nationwide Children’s Hospital / Ohio State University Research Week, Columbus, Oh., April 14, 2011

**Brigstock, DR.** Scar Wars. Carol Goldsmith Memorial Science Lecture, Wellington School, Columbus, Oh., November 4, 2010

**Fabia R.** Burns. Critical Care Fellow Lecture Nationwide Children’s Hospital, Columbus, Oh., April 2010, January 2011

**Fabia R.** Burns. Acute Care Lecture Series for Pediatric Residents, Nationwide Children’s Hospital, Columbus, Oh., August 2010

**Fabia R.** Pediatric Burn, Educational Conference and Exhibition - The Ohio Fire &EMS Expo Lecture, Columbus, Oh., September 2010

**Fabia R.** Treatment of the major burn in a child - Trauma Grand Round Series, Columbus, Oh., January 2011
Fabia R. Pediatric burn injury: Management of small to moderate burns evaluated in the emergency department. Pediatric Emergency Medicine Conference-Lecture, Columbus, Oh., April 2011

Kenney BD. Pediatric benchmarking. The Ohio State University, Columbus, Oh., October 2010

Kenney BD. Mediastinal masses. Nationwide Children’s Hospital, Columbus, Oh., September 2010

Nwomeh BC. Common lumps, bumps, and lymphadenopathy. Outreach Education and Networking Conference. Nationwide Children’s Hospital, Columbus, Oh., April 21, 2010

Nwomeh BC. Abdominal wall defects. Neonatal Grand Rounds. Nationwide Children’s Hospital, Columbus, Oh., January 7, 2011

Nwomeh BC. Association for Nigerian Physicians in the Americas, Annual Meeting, Washington DC, July 2, 2010 (Moderator, Oncology session)

Nwomeh BC. Fundamentals of Research and Career Development Course. Association for Academic Surgery, Abuja, Nigeria, November 8-9, 2010 (Course Director)

Nwomeh BC. Minimally Invasive Surgery Workshop. Association for Academic Surgery, Abuja, Nigeria, November 10-11, 2010 (Course Director)

Teich S. When the skin falls apart, neonatal blistering disorders. NCH Regional Neonatal Conference, Nationwide Children’s Hospital, Columbus, Oh., May 25, 2011

Distinguished Visiting Professors

R. Lawrence Moss, MD.
H. William Clatworthy Visiting Professor in the Division of Pediatric Surgery, September 21-23, 2010. Robert Pritzker Professor, Surgery and Pediatrics, Yale University School of Medicine, New Haven, Connecticut.
Presentation: Pediatric Grand Rounds: Connecting your head to your NEC: Improving Outcomes for Babies with Bowel Perforation.

Randall S. Burd, MD.
Visiting Professor in Critical Care, November 17-18, 2010. Associate Professor of Surgery and Pediatrics, George Washington University School of Medicine and Health Sciences, Washington, DC.
Presentation: Improving the Care of the Injured Child in a Prehospital and Emergency Department Setting.
Department of Plastic Surgery
The past four years have been extremely productive for the Department of Plastic Surgery at The Ohio State University. The continual growth trajectory of our business and the development of state-of-the-art technology designed for the care of our patients has been the driving force for our team’s continued expansion of our faculty, providers, and services. In addition, the reputation of the entire Plastic Surgery product line has been rapidly expanding and there have been many significant achievements within the clinical, research, and teaching arenas.

In clinical care our guiding principle is to provide services that are fully integrated into a multi-disciplinary environment within an academic medical center, as well as providing readily available reconstructive surgery services to other specialists at the University Hospital, Ross Heart Hospital, James Cancer Hospital, and Nationwide Children’s Hospital. Our surgical volumes, billings, and revenues reached record levels again in fiscal year 2011. Some cases performed this year have never before been performed at The Ohio State University. Our physicians are among the first to use new robotic technologies in the operating room. In addition to advanced techniques for reconstructive surgery, we continue to offer state-of-the-art aesthetic surgery as an essential part of a comprehensive clinical service in plastic surgery.

We successfully recruited four new members to the full-time faculty this year, increasing the number of faculty in our department faculty to fifteen:

- Dr. Maya Spaeth joined our faculty at Nationwide Children’s Hospital. She will serve as the Co-director of the Hand, Microsurgery, and Brachial Plexus Center at Nationwide Children’s Hospital.

- Adrian Baylis, PhD, CCC-SLP is a Speech Scientist and Speech-Language Pathologist who joined Nationwide Children’s Hospital as Director, Resonance Disorders Program and Co-Director, 22q11 Deletion Syndrome Center
• Dr. Melissa Kinder joined the faculty after successfully completing her Plastic Surgery Residency here at OSU. She has an interest in pursuing a hand fellowship in the future.

• Alok Sutradhar, PhD is our post-doctoral researcher in advanced technology applications in surgery. He joined our Department as an Assistant Professor this spring. Dr. Sutradhar also has a faculty appointment in the Department of Mechanical and Aerospace Engineering at OSU.

• In addition, we are in the process of recruiting two more physicians, a hand specialist and a microsurgeon, further expanding the expertise and capability of Ohio State Plastic Surgery.

With the addition of these four new faculty members, the OSU Department of Plastic Surgery is now a full-service academic plastic surgery group of thirteen practicing physicians making it one of the largest plastics surgery programs in the nation. Our success in recruiting additional faculty members helped us achieve our goal of becoming a Department at The Ohio State University.

In order to support this growth in faculty, we have added several key staff members in administration and clinic to our organization. Melanie Dickman, Administrative Associate, Heather Graley, RN, Stacey Seibert, Education Coordinator all joined us this year. We will also be finalizing the addition of a new Clinic Manager and Human Resources Specialist.

Our mission remains to “restore, repair and make whole those parts which nature had given but fortune has taken away.” Our program’s primary objective is restoring wholeness to people suffering from physical deformities through integrated programs in patient care, education and research in the field of Plastic Surgery. Our vision is to foster and build partnerships with other academic disciplines and hospitals as well as our patients and the community to develop our program to become nationally and internationally renowned.

Due to our significant academic and clinical growth this year, we have opened a new multidisciplinary clinic at the James Breast Center, in addition to our locations at Gowdy Field, Nationwide Children’s Hospital and Easton Town Center. The formalization of our Department status at The Ohio State University Medical center makes us one of a handful of such programs in the country, and one of the largest. Department status has several advantages, not the least of which is enhanced recognition as a leader in our field- regionally, nationally and internationally. We look to continue this momentum and represent the Institution in a positive light, currently and in the future.

Our priorities for the upcoming year include:
• Utilize and enhance our Departmental status at The Ohio State University
• Continue to work toward financial stability
• Actively recruit key faculty in integral areas of the department, especially in research
• Foster academic development of current faculty
• Continue to refine clinical care processes
• Establish a high risk treatment center within our clinic at Gowdy Field
• Utilize a multi-media approach to further publicize our unique clinical services
• Expand our basic and translational research programs in wound healing, biocomputation, regenerative medicine, and clinical science.
Clinical services

Our clinical services continue to expand both in volume and scope.

Dr. Gregory Pearson continues to have a very active practice in General Plastic Surgery, particularly in facial trauma and pediatric plastic surgery. He assumed all responsibility for performing surgery on patients through the Craniofacial Clinic at Nationwide Children’s Hospital upon Dr. Ruberg’s retirement and served well in this position. In addition, his assistance with the residency program is of tremendous help to the Director. Dr. Pearson is projected to take over as Program Director in 2012. He also organized the Tri-State Craniofacial Meeting that was held in Columbus in October, 2010.

Dr. Pankaj Tiwari completed his fourth year here at Ohio State and he has continued to perform beyond our expectations. His clinical practice volume has grown such that he is at the top of our department. He has also grown in his management and leadership skills and has been an effective Clinical Affairs Director. Dr. Tiwari also acts as the lead advisor for our Communication and Marketing projects which includes our departmental website. He has also represented the Department and University internationally, with several trips to India.

Our Easton office location has become very successful under the leadership of Dr. Anne Taylor, who has now been a part of the Department’s faculty for three years. Dr. Taylor serves as the Aesthetic Director of our program as well as the Director of the Resident Cosmetic Clinic. Dr. Taylor also represents our Department and the University by serving on many different committees and leadership positions in local and national Plastic Surgery professional organizations. This year, Dr. Taylor led the effort to create an Aesthetic Fellowship, the first of its kind here at the University.

Dr. James Boehmler has completed his third year with in the Department of Plastic Surgery. Dr. Boehmler is one of five of our reconstructive microsurgeons and his clinical volumes have grown tremendously over this past year. Dr. Boehmler has contributed greatly to the Department by establishing our microsurgery laboratory and by serving as the Department’s Finance Director. In addition, he serves on several critical committees including OpTime and Epic which are crucial roles as these two systems were implemented in our department in August 2009. Dr. Boehmler will also serve the Department as Vice Chair of Operations, as well as coordinate the upcoming IHIS transition as our Departmental Super User.

The Department was delighted this year to join forces with the Department of Orthopedics to create the Microsurgery Training Center based at the multidisciplinary Hand Center. We also anticipate adding an additional plastic surgery hand specialist. This will continue the tradition of cooperation that is encouraged here at Ohio State.

The Department has continued our strong alliance with Nationwide Children’s Hospital, which is under the direction of Dr. Richard Kirschner. OSU Plastic Surgery assisted with the recruitment of a new pediatric plastic surgeon, Dr. Maya Spaeth. Dr. Adrian Baylis also joined the team as a speech pathologist working with resonance disorders and 22q11 deletion syndrome. Over the past year, nearly all of our full-time faculty members have provided general plastic surgery and clinical services at Children’s. OSU Plastic Surgery continues to work with Children’s Hospital to conduct two major multidisciplinary clinical programs. The Craniofacial Clinic has been staffed primarily this year by Dr. Gregory Pearson who has
been assisted by Dr. Robert Ruberg. This program has been very successful and continues to grow in patient volume. In addition, Dr. Gayle Gordillo has continued to direct the multidisciplinary Vascular Malformations Clinic that serves as a center for patient care as well as clinical and basic translational research.

**Research**

Mirroring our developments in clinical care, our talented faculty are expanding in clinical, basic, and translational research.

Dr. Gordillo serves as our dedicated clinical researcher and has been quite productive and successful this year. She has continued developing her successful research program in wound healing and vascular malformations. She has furthered her national chronic wound tissue bank and has made important contributions in wound healing and vascular malformations research. Dr. Gordillo has been appointed as Vice Chair of Research for our Department, coordinating all basic, translational, and clinical research for Plastic Surgery.

Alok Sutradhar, PhD., our post-doctoral researcher in advanced technology applications in surgery, joined our Department as an Assistant Professor this Spring. He also has a faculty appointment in the Department of Mechanical and Aerospace Engineering at OSU. He has been working on several different project areas including: 1) Measuring skin elasticity and skin thickness of the female breast in order to create a physics-based simulation of the breast for surgical planning, teaching, and outcomes prediction. 2) Developing patient-specific optimal layout of reconstructed craniofacial region subject to constraints using topological optimization methods. 3) Developing a mathematical model to predict successful tissue transfer method based on blood vessel diameter, tissue volume and oxygen delivery. 4) Computer simulations to predict breast augmentation surgeries, i.e., mastopexy and implant reconstruction and 5) Developing a framework designed for an objective assessment score for selection of appropriate type of breast reconstructive surgery. These ongoing projects have resulted in two article publications (one in *Proceedings of the National Academy of Sciences*) and another two article submissions. He has given two invited talks (i.e., Penn State, U Pittsburgh) and two presentations (ASME Congress IMECE). His research has been highlighted in ‘The Economist’, ‘Spiegel Online’, ‘Science update’, ‘Smart Planet’ among other places. He has served multiple times this year on grant review study sections at NSF. He is also an active member of the ASME technical committee on Mechanics in Biology and Medicine. He has organized a symposium on ‘Mechanics in Cancer’ which was sponsored by NCI. We still have plans to recruit a more senior full-time research scientist to serve as our Research Director.

Dr. Ergun Kocak has completed his second year as one of our microsurgery faculty members with in the Department of Plastic Surgery. Dr. Kocak has proven to be a tremendous asset to our Department as he is a capable clinician and a promising researcher. He has presented his research at the ASRM annual meeting in January 2011. Methodology developed from Dr. Kocak’s laboratory has also been disclosed to The Ohio State University Office of Technology and Licensing and is being reviewed for patentability at this time. Dr. Kocak has had three peer reviewed manuscripts published in *Plastic and Reconstructive Surgery Journal* within the last 12 months. A fourth paper outlining his laboratory work is under review.
at this time. He is also in the data accrual phase for a human trial that will compare CT angiograms to intraoperative perforator vessel anatomy in autologous DIEP flap breast reconstruction cases.

**Education**

We made significant advances in our education program.

Under the direction of Dr. Michael Miller as Program Director and Dr. Gregory Pearson as Associate Program Director the Department initiated the 3rd year of a 6-year integrated residency program. The program has experienced unprecedented success in recruiting the very best match candidates from around the country and world.

We have continued to enhance our communication with the community faculty through social events, a monthly community faculty meeting and a city-wide M&M conference as well as establishing a local professional society, the Columbus Society of Plastic Surgeons. Our visiting professors this past year have all spoken at the Columbus Society of Plastic Surgeons and this has drawn exposure to Ohio State and what our faculty has to offer to the community.
Faculty

**Michael J. Miller, MD**
Professor of Surgery; Chair, Department of Plastic Surgery
BS: University of Massachusetts, Boston, Ma., 1978
MD: University of Massachusetts, Boston, Ma., 1982
Specialty Training: General surgery, Berkshire Medical Center, Pittsfield, Mass.; plastic surgery, The Ohio State University, Columbus, Oh.; reconstructive microsurgery, Tulane University, New Orleans, La.
Appointment: 2007
Specialty Interests: Reconstructive surgery for cancer patients
Research Interests: Tissue repair and regeneration and applications of advanced technology in clinical surgery

**Adriane L. Baylis, PhD, CCC-SLP**
Assistant Professor of Surgery
BS: Marquette University, Milwaukee, Wi., 2001
PhD: University of Minnesota, Minneapolis, Mn., 2007
Specialty Training: Speech, hearing, language sciences
Appointment: 2011
Specialty Interests: Resonance disorders, 22q11 deletion syndrome

**James H. Boehmeler, IV, MD**
Assistant Professor of Clinical Surgery
BA: University of Chicago, Chicago, Il., 1997
MD: University of Rochester, Rochester, NY, 2001
Specialty Training: Plastic surgery, Georgetown University, Washington, D.C., 2007; fellowship in reconstructive microsurgery, University of Texas M.D. Anderson Cancer Center, Houston, Tx., 2008
Appointment: 2008
Specialty Interests: Oncologic reconstructive surgery

**Gayle M. Gordillo, MD**
Associate Professor of Surgery
AB: Stanford University, Stanford, Ca., 1984
MD: The Ohio State University, Columbus, Oh., 1990
Specialty Training: Plastic surgery, The Ohio State University, Columbus, Oh., 1999
Appointment: 1999
Specialty Interests: Burns, complex wounds
Research Interests: Angiogenesis
Brian A. Janz, MD
Assistant Professor of Clinical Surgery
BA: University of Dayton, Dayton, Oh., 1997
MD: Medical College of Ohio, Toledo, Oh., 2001
Specialty Training: General surgery, Harvard Medical School at Beth Israel Deaconess Medical Center, Boston, Ma.; Plastic/reconstructive surgery, Baylor College of Medicine, Houston, Tx., 2008; Hand/microsurgery, Curtis National Hand Center, Baltimore, Md.
Appointment: 2009
Specialty Interests: Oncologic reconstructive surgery

Melissa R. Kinder, MD
Assistant Professor of Surgery
BS: Butler University, Indianapolis, In., 2002
MD: Southern Illinois University School of Medicine Springfield, Il., 2006
Specialty Training: Plastic Surgery Resident, The Ohio State University, 2011
Appointment: 2011
Specialty Interests: Hand surgery

Richard E. Kirschner, MD
Professor of Clinical Surgery
BA: University of Miami, Miami, Fl., 1985
MD: University of Miami School of Medicine, Miami, Fl., 1989
Appointment: 2010
Specialty Interests: Craniofacial disorders and cleft lip

Ergun Kocak, MD
Assistant Professor of Surgery
BA: University of Michigan, Ann Arbor, Mi., 1996
MD: The Ohio State University, Columbus, Oh., 1998
Specialty Training: Plastic surgery, The Ohio State University, Columbus, Oh., 2008; Reconstructive microsurgery, MD Anderson Cancer Center, Orlando, Fl., 2009
Appointment: 2009
Specialty Interests: Oncologic reconstructive surgery
Gregory D. Pearson, MD
Assistant Professor of Clinical Surgery
BS: Ohio University, Athens, Oh., 1994
MD: The Ohio State University, Columbus, Oh., 1998
Specialty Training: Plastic surgery, The Ohio State University, Columbus, Oh., 2004; Fellowship in craniofacial surgery, Riley Hospital for Children, Indianapolis, In., 2005
Appointment: 2005
Specialty Interests: Craniofacial disorders

Brian S. Porshinsky, MD
Assistant Professor of Surgery
BA: The Ohio State University, Columbus, Oh., 1991
MD: Medical College of Toledo, Toledo, Oh., 1999
Specialty Training: Reconstructive surgery, University of Illinois, Chicago, Il., 2007; Burn surgery, New York-Presbyterian Hospital/Weill Cornell Medical Center, New York, NY, 2008; Surgical critical care, The Ohio State University Medical Center, Columbus, Oh., 2009
Appointment: 2009
Specialty Interests: Acute burn care, fluid resuscitation after burns

Robert L. Ruberg, MD
Professor of Surgery; Senior Vice Chairman for Administrative Affairs, Department of Surgery
BA: Haverford College, Haverford, Pa., 1963
MD: Harvard Medical School, Cambridge, Ma., 1967
Specialty Training: Hospital of the University of Pennsylvania, Philadelphia, Pa.
Appointment: 1975
Specialty Interests: Breast surgery, pediatric plastic surgery
Research Interests: Plastic surgery education, curriculum development

Michael Ruff, MD
Clinical Associate Professor of Orthopedics
BA: The Ohio State University, Columbus, Oh., 1974
MD: The Ohio State University, Columbus, Oh., 1979
Specialty Training: Plastic surgery, The Ohio State University, Columbus, Oh., 1984; Hand/microsurgery, University of Louisville, Louisville, Ky., 1985
Appointment: 2009
Specialty Interests: Hand surgery
Maya Spaeth, MD
Assistant Professor of Surgery
BSc: University of British Columbia, Canada, 1995
MD: University of Calgary, Canada, 2000
Specialty Training: Plastic surgery fellowship, The Ohio State University, 2007; hand fellowship, Baylor College of Medicine, 2008
Appointment: 2010
Specialty Interests: Microsurgery, pediatric hand surgery

Alok Sutradhar, PhD
Assistant Professor of Surgery
BS: Bangladesh University of Engineering and Technology, Bangladesh, 1995
MS: Bangladesh University of Engineering and Technology, Bangladesh, 1999
PhD: University of Illinois at Urbana-Champaign, Il., 2005
Specialty Training: Postdoctoral research fellow, MD Anderson Cancer Center, 2006; Postdoctoral Researcher: The Ohio State University, 2007-2010
Appointment: 2011
Specialty Interests: Patient-specific modeling for bio-mechanical problems, topology optimization for designing craniofacial bone replacements, breast biomechanics
Research Interests: Modeling of oxygen transport and blood flow in reconstructive surgery, breast biomechanics, morphometry and aesthetics, cancer modeling

Anne Taylor, MD
Associate Professor of Clinical Surgery
BS: Dennison University, Granville, Oh., 1986
MD: The Ohio State University, Columbus, Oh., 1990
Specialty Training: Plastic surgery, The Ohio State University Medical Center, Columbus, Oh., 1996
Appointment: 2007
Specialty Interests: Aesthetic surgery

Pankaj Tiwari, MD
Assistant Professor of Clinical Surgery
BA: Harvard University, Boston, Ma., 1995
MD: New York University, New York, NY, 2000
Specialty Training: Plastic surgery, Baylor College of Medicine, Houston, Tx., 2006; fellowship in reconstructive microsurgery, M. D. Anderson Cancer Center, Houston, Tx., 2007
Appointment: 2007
Specialty Interests: Aesthetic surgery and reconstructive microsurgery
Faculty Departure
William A. Wallace, Jr., MD, MS

Emeritus Faculty

Ronald B. Berggren, MD
Professor Emeritus of Surgery
**BA:** Johns Hopkins University, Baltimore, Md., 1953
**MD:** University of Pennsylvania, Philadelphia, Pa., 1957

Clinical Faculty

Haroon A. Aziz, MD
Clinical Assistant Professor of Surgery
**FSc:** Forman Christian College, Lahore, Pakistan, 1965
**MBBS:** King Edward Medical College, Lahore, Pakistan, 1970

Arthur G. Bing, MD
Clinical Assistant Professor of Surgery
**MD:** Pajaran University, Bandung, Indonesia, 1965

James W. Farraro, MD
Clinical Associate Professor of Surgery
**BS:** Western Reserve, Hudson, Oh., 1961
**DDS:** Western Reserve, Hudson, Oh., 1963
**MD:** The Ohio State University, Columbus, Oh., 1967

Greg Holland, MD
Clinical Instructor of Surgery
**BS:** Ohio University, Athens, Oh., 1983
**MD:** The Ohio State University, Columbus, Oh., 1987

Robert S. Houser, DO
Clinical Instructor of Surgery
**BS:** The Ohio State University, Columbus, Oh., 1993
**DO:** Ohio University, Athens, Oh., 1997
Jason B. Lichten, MD
Clinical Assistant Professor of Surgery
BA: Brandeis University, Waltham, Ma., 1993
BS: University of Pennsylvania, Philadelphia, Pa., 1994
MD: Jefferson Medical College, Philadelphia, Pa., 1998

James D. McMahan, MD
Clinical Instructor of Surgery
BS: University of Oregon, Eugene, Or., 1979
MD: Oregon Health and Science University, Portland, Or., 1983

Gregory E. Morrison, MD
Clinical Assistant Professor of Surgery
BA: Princeton University, Princeton, NJ, 1976
MD: Duke University, Durham, NC, 1979

David S. Postlewaite, MD
Clinical Assistant Professor of Surgery
BS: Williams College, Williamstown, Ma., 1963
MD: The Ohio State University, Columbus, Oh., 1967

Bivik R. Shah, MD
Clinical Assistant Professor of Surgery
BS: University of Michigan, East Lansing, Mi., 1989
MD: The Ohio State University, Columbus, Oh., 1994

Timothy A. Treece, MD
Clinical Instructor of Surgery
BS: The Ohio State University, Columbus, Oh., 1979
MD: The Ohio State University, Columbus, Oh., 1982

Susan D. Vasko, MD
Clinical Instructor of Surgery
BS: The Ohio State University, Columbus, Oh., 1979
MS: The Ohio State University, Columbus, Oh., 1980
MD: The Ohio State University, Columbus, Oh., 1986

Rafael E. Villalobos, DO
Clinical Assistant Professor of Surgery
BS: University of Maryland, Baltimore, Md., 1985
MSc: University of Maryland, Baltimore, Md., 1987
DO: West Virginia School of Osteopathic Medicine, Lewisburg, WV, 1991
John K. Wakelin, MD  
Clinical Instructor of Surgery  
**BA:** Xavier University, Cincinnati, Oh., 1996  
**MD:** The Ohio State University, Columbus, Oh., 2000

### Resident Staff

- **Tyler Angelos, MD**  
  PGY-2
- **Joseph Brown, MD**  
  PGY-2
- **Justin Harper, MD**  
  PGY-1
- **Russ Hendrick, MD**  
  PGY-3
- **John Hulsen, MD**  
  PGY-1
- **Allison McAnneny, MD**  
  PGY-4
- **Meghan Nadeau, MD**  
  PGY-4
- **Ted Nagel, MD**  
  PGY-3
- **Maakan Taghizadeh, MD**  
  PGY-5
- **Jonathan Yang, MD**  
  PGY-4
- **Myla Bennett, MD**  
  PGY-5
Melissa Kinder, MD  
PGY-5

Sumita Saha, MD  
PGY-5

Microsurgery Fellows

Kongkrit Chaiyasate, MD

Fred Durden, MD  
PGY-6

Matthew Talarczyk, MD  
PGY-14

Mission and Vision

The mission of the Division of Plastic Surgery at The Ohio State University is to restore wholeness to people suffering from physical deformities through integrated programs in patient care, education, and research in the field of plastic surgery. Our vision is to become the world’s leading center for the practice, training, and advancement of plastic surgery.

Basic Science Research Programs

- Kocak E. (Principle Investigator). Gene Directed Enzyme Prodrug Therapy in Gene Modified Muscle Flaps using a Syngeneic Tumor in an Immunocompetent Rat Model. Seed Grant from The American Cancer Society, $30,000.

- Kocak E. (Principle Investigator). Gene Directed Enzyme Prodrug Therapy in Gene Modified Muscle Flaps using a Human Xenograft Tumor in an Immunodeficient Mouse Model. CCTS Davis Bremer Pilot Award, $40,000.


Clinical Research Programs

- Gordillo GM. (Principal Investigator) A multicenter randomized, controlled trial examining cellular and tissue oxygenation levels related to various wound healing therapies - KCI USA, Inc. $124,878.

- Gordillo GM. (Principal Investigator) A Prospective, Multi-Center, Double Blind, Randomized Placebo Controlled Trial to Evaluate the Safety and Efficacy of ICXP007 in a Phase III trial with Four-Layer Therapeutic Compression, for the Treatment of Non-Infected Skin Leg Ulcers due to Venous Insufficiency. FDA Phase III, $195,304.

- Gordillo GM. (Co-investigator) Efficacy of Natural Vitamin E Tocotrienol on the Treatment of Surgical Scars – Randomized Double-Blinded Placebo Controlled Trial Designed to Assess the Qualitative Effects of Tocotrienol on Scar Healing Outcomes in Plastic Surgery Patients, $600,000.

- Gordillo GM. (Principal Investigator) Use of dermaPACE (Pulsed Acoustic Cellular Expression) device in conjunction with standard of care in the treatment of diabetic foot ulcers – SanuWave; FDA phase II; $73,506.

- Kocak E. (Co-investigator). Distal Interphalangeal Joint Arthrodesis with the Herbert Headless Compression Screw: Outcomes and Complications in 67 Consecutively Treated Joints.


Translational Research Programs

- Gordillo GM. (Principal Investigator) Gene Expression Profiles in Healing and Non-Healing Wounds – a large multicenter translational research protocol being implemented at OSU and other wound care centers in the National Healing Corp network that collects wound tissue specimens, medical history and clinical outcomes data to determine patterns of gene expression in healing versus non-healing wounds. Tissue specimens will be evaluated by histology for quality control and then proceed to gene chip analysis on single cell populations using laser capture technology. Data collection and management strategies were incorporated into the protocol, which is also approved by the General Clinical Research Center (GCRC) at OSU. They support the data collection process.

- Gordillo GM. Mechanisms Regulating Wound Vascularization – a Pilot study for the Program Project Initiative Grant to get preliminary data for a planned P50 Center grant submission to NIH to establish a wound healing Center of Excellence at OSU. A $400,000 seed grant was provided by the Davis Heart and Lung Research Institute to support the development of this proposal. Dr. Gordillo is the clinical core director and wrote the human subjects protocol and supervised development of data management tools to support translational needs of 4 basic science investigators.

- Gordillo GM. (Co-investigator) Mechanisms Underlying Impaired Diabetic Wound Healing (R01). NIH/NIDDK, $1,200,000. Is a translational protocol looking at the effects of diabetes on macrophage function in wounds. Macrophages are collected from the wound non-invasively using VAC Sponges in a protocol developed jointly by Gayle Gordillo and Sashwati Roy.

- Gordillo GM. The incidence of malnutrition and other risk factors for impaired healing among inpatients with chronic wounds (2007-2009) – ongoing retrospective chart review of patients seen by the inpatient wound consult service.

- Gordillo GM. Isolation of cells and proteins from wound fluid in patients treated with VAC dressings (2006-present) – protocol used to obtain preliminary data for the NIH/NIDDK R01 award and currently being used to acquire preliminary data for planned P50 center grant.


Accomplishments in Research

• Ergun Kocak, MD, served as a grant reviewer on a national committee of the PSF for the 2011 funding cycle.

• Brian Janz, MD. Awarded: DePuy Academic Enrichment Grant Project: A biomechanical study of metacarpal fracture fixation, 2011, $10,000

• Gayle Gordillo, MD. Awarded: Mechanisms Regulating Hemangioendothelioma: A Plastic Surgeon’s Challenge (R01), NIH/NIGMS, $1,900,000 (principal investigator)

• Gayle Gordillo, MD. Awarded: Comparison of diabetic foot ulcer limb salvage rates in patients receiving specialized wound care versus standard care at OSUMC (UL1) NIH/NCRR $37,494. (principal investigator)

• Ergun Kocak, MD. Awarded: OSU Center for Clinical and Translational Science (CCTS) and Richard P. and Marie R. Bremer Medical Research Fund (Davis/Bremer Research Fund) for “Gene Therapy of Plastic Surgical Flap Tissues in a Mouse Xenograft Model to Treat Human Colorectal Tumor Implants”, June 2010, $40,000

Clinical Programs

• **Hemangioma and Vascular Malformation Clinic** – established and directed by Dr. Gayle Gordillo. Provides comprehensive care to patients with hemangiomas and vascular malformations. This clinic is staffed by four physician providers which includes a dermatologist and an otolaryngologist and two plastic surgeons. The volume of patients seen has also doubled in size and exceeds 400+ patient visits per year.

• **Inpatient Wound Consult Service** – established and directed by Dr. Gayle Gordillo and staffed by Drs. Melissa Kinder and Brian Porshinsky. This service provides expertise in the evaluation and management of inpatients with pressure ulcers, venous stasis ulcers or diabetic foot ulcers. This service sees about 200 patients per year.

• **The Craniofacial Clinic at Nationwide Children’s Hospital** is serviced by Dr. Gregory Pearson and Dr. Robert Ruberg.
• **Comprehensive Wound Center (CWC)** – Recognized by OSU Board of Trustees in 10/04, this center was developed by Dr. Gordillo and Dr. Chandan Sen to: 1) accelerate the translation of basic science findings to clinical application, 2) encourage novel partnerships and multidisciplinary approaches to investigate complex problems related to wound repair and regeneration, and 3) use data to develop clinical best practices and become leaders in the field of tissue repair and wound management. The objectives and activities of the CWC adhere to NIH Roadmap guidelines. The CWC was used as a centerpiece in the recently funded OSU proposal for a Clinical and Translational Science award from NIH ($35,000,000).

**Accomplishments in Clinical Care**

• OSU Department of Plastic Surgery is now a full-service, comprehensive Plastic Surgery Program of thirteen physicians making it one of the largest Plastics Surgery Programs in the nation.

• Plastic Surgery joined forces with the Department of Orthopedics to create the OSU Hand Center Microsurgery Training Center.

• Dr. Michael Miller and Dr. Richard Kirschner were named to Best Doctors in America 2010-2011.

• Dr. Pankaj Tiwari performed the first robotic procedures in Plastic Surgery at Ohio State.

**Clinical Statistics**

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>5,100</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>6,929</td>
</tr>
<tr>
<td>Admissions</td>
<td>502</td>
</tr>
<tr>
<td>Patient Days</td>
<td>2,813</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>5.60</td>
</tr>
</tbody>
</table>

**Educational Programs**

• Plastic Surgery Residency Training Program is now in the 3rd year of our integrated 6-year program. In 2010-2011 the department continued with the new program format. This is an exciting process for our program and is adding great deal of knowledge and experience for our residents. All our residents in the program passed their written exams. It is also consistent with changes in training which are mandated by the ACGME starting in 2010.
• The OSU Department of Plastic Surgery hosted the Second Annual Ruberg Symposium in September 2010. This year’s symposium honored Dr. Robert Ruberg as well as focused on the emerging healthcare environment, relevant economic and business concepts pertaining to plastic surgery, and improving outcomes in plastic surgery of breast and aging faces. A highlight of this year’s program was a live surgery, simulcast directly to the conference and featuring live Q & A between program participants and the surgeons.

Accomplishments in Education

• OSU Plastic Surgery Residency Program was fully accredited with no citations at the last ACGME site visit.

• Drs. Anne Taylor, James Boehmler and Michael Miller served as examiners for the American Board of Plastic Surgery examinations in 2010

• OSU Plastic Surgery added four fellowships for the upcoming year: an additional microsurgery fellowship, a pediatric fellowship, an aesthetic fellowship and a hand fellowship in collaboration with the multidisciplinary Hand Center

• Dr. Gayle Gordillo spoke on “Pressure Ulcers Evaluation & Management” OSU MedNet Live CME Webcast, Apr. 2010

Community Outreach Programs

• Dr. Pankaj Tiwari was a visiting Clinical Professor at Ganga Hospital in Coimbatore, India, April 2011

• Dr. James Boehmler led a Breast Reconstruction Seminar at The Ohio State University that was featured in Health1 Magazine in 2010

• Cindy Koutz, PA spoke at a Breast Cancer Survivor meeting in Findlay, OH in 2011
Accomplishments in Community Outreach

- Gayle Gordillo, M.D. Women of Color Foundation – Annual Conference Panelist “The Impact of Mentoring” May 2010

- Gayle Gordillo, M.D. OSU College of Medicine MD Camp – “The Realities of Surviving as a Minority in Your Profession.” June 2010

- Michael Miller, M.D. Served as an Adjunct Merit Reviewer, Merit Review Subcommittee for Surgery, Department of Veterans Affairs, 2010

Publications


Abstracts


Books


Book Chapters


Visiting Professorships

Tiwari P. was a visiting Clinical Professor at Ganga Hospital in Coimbatore, India, April 2011

Miller M. was a visiting professor for the Duke Flap Course, Duke University, Durham, NC, 2010

Miller M. served on the faculty for the Mayo Symposium in Reconstructive Surgery, Mayo Clinic, Rochester, Mn., June 23-27, 2010
National Presentations

Gordillo GM. Pressure ulcers evaluation & management. OSU MedNet Live CME Webcast, April 2010

Gordillo GM. Topical oxygen therapy. Society for Advanced Wound Care, Orlando, Fl., April 2010

Gordillo GM. Topical oxygen therapy. University of Illinois at Chicago Center for Wound Healing & Tissue Regeneration, Chicago, Il., May 2010

Pearson GD. Panfacial fractures: North America, principles of operative treatment of craniomaxillofacial trauma and reconstruction. Pittsburgh, Pa., May 2010

Miller MJ. Program development in oncologic reconstructive surgery; Salvage reconstruction following flap failure; Optimizing aesthetic outcomes in breast reconstruction; Computer-assisted design in planning midface reconstruction; Total esophageal reconstruction with supercharged pedicled jejunal flaps. Symposium in Reconstructive Surgery, Mayo Clinic, Rochester, Mn., June 2010

Taylor A. ASAPS Annual Meeting 2010: Instructional Course Presenter: Social media- Can you teach an old dog to tweet; breast asymmetry strategies. Washington, DC, April 2010

Taylor A. ASPS 2010 - Health care reform: The long and winding road. Toronto, Ontario, Canada, October 2010

Miscellaneous Presentations


Miller MJ. Lecturer, Living fully after cancer: The role of breast reconstruction. Stefanie’s Champions, Breast Cancer Research Symposium. The Ohio State University Comprehensive Cancer Center, Arthur G James Cancer Hospital and Solove Research Institute, Columbus, Oh., April 2010

Miller MJ. Lecturer, Breast Survivorship Symposium. The Ohio State University Comprehensive Cancer Center, Arthur G James Cancer Hospital & Solove Research Institute, Columbus, Oh., May 2010

Gordillo GM. Multidisciplinary Advances in Treatment of Critically-ill Hospitalized patients (MATCH), Pressure ulcers: Evaluation, management and strategies for prevention. Columbus, Oh., September 21, 2010
Gordillo GM. “Clinical implications of basic science of wound healing in the management of diabetic foot ulcers”. HEAL Ohio, Rootstown, Oh., October 21, 2010

Porshinsky B. Burn Care and EMS, Berlin Twp Fire Department, Delaware County, Oh., October 27, 2010

Porshinsky B. Course Director and Instructor, Advanced Burn Life Support, The Ohio State University Medical Center, Columbus, Oh., June 24, 2010

Taylor A. “Health Care Reform” point-counterpoint. 2010 Ruberg Symposium Course Director and Instructor, Columbus, Oh., September 9-10, 2010

Distinguished Visiting Professors

Milton Armstrong, M.D.
Keynote Speaker, 2010 Ruberg Symposium
September 9 & 10, 2010

Michael Bentz, M.D.
Los Angeles, California
“Total Nasal Reconstruction”
“Scalp and Skull Reconstruction”
“Case Vignettes”
March 10 & 11, 2011

Malcolm Lesavoy, M.D.
PSEF Visiting Professor
“MOHS Facial Reconstruction”
“Physician Health in Plastic Surgery”
February 10 & 11, 2011
In the Division of Surgical Oncology, all clinical and basic research activities are devoted to the evaluation and management of cancer. The mission of the division is reflected in the mission of The Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. Our goals are to provide excellence in clinical cancer care, educate medical students, resident, and fellows, and to conduct clinical and basic research. Most of the research performed in the division is translational, in which ideas and hypotheses from the laboratory are incorporated into clinical evaluation through the clinical trial mechanism.

The division has added two new faculty members this year. Dr. Abdel-Misih joins us after completing his surgical oncology fellowship here at the James. He will concentrate his clinical and research activities in GI oncology. Dr. Terando also joins us after completing her fellowship at the John Wayne Cancer Institute. She will be working with melanoma patients as well as breast cancer patients. Her clinical research will be mainly in breast cancer.

Dr. Doreen Agnese continues to distinguish herself as an excellent clinician, working mainly in breast cancer, melanoma, and cancer genetics. She participates in our high risk breast cancer clinic as well as leading our genetics program. Dr. Agnese has served as a resident mentor for the past 4 years, and is on the clinical subcommittee of the Center for Women’s Health. She serves as principle investigator for the National Melanoma Sentinel Lymph Node Trial. She also serves as a reviewer for The European Journal of Surgical Oncology.

Dr. Mark Bloomston continues to lead our GI surgical oncology program. He is director of translational research in liver cancer and also serves as director of the Surgical Oncology Fellowship program. He recently completed The James IV Surgical Association Traveling Fellowship. He also serves on the biliary cancer guidelines committee of the National Cooperative Cancer Network. He serves as a mentor...
to many residents as well as medical students. He continues to have research support from the National Institute of Health K12 award entitled “Translational Training Grant in Experimental Therapeutics”. His lab focus’s mainly on micro RNA expression and function in pancreatic and esophageal cancer. He also has started numerous data basis including neuro-endrocrine tumors, periampallary cancers, liver cancers, gastric cancers, esophageal cancers, appendiceal cancers, and peritoneal malignancy. He is also very active in clinical trials focusing on areas of interest including pancreatic cancer and hepatocellular carcinoma.

Dr. William Carson, a leader in basic research, continues to serve as associate director of the comprehensive cancer center at The James Cancer Hospital. He also directs the institutional review board at The James and continues as co-director of clinical trials office. Dr. Carson has been instrumental in increasing clinical trial activity at The James the past few years. His efforts have made the cancer hospital a leader in clinical trial participation in the country. He holds numerous grants and recently received an NIH K24 award and an NIH/NCIP01 award. He is instrumental in helping our fellows develop research activities.

Dr. William Farrar is the recipient of the Arthur G. and Mildred C. James and Richard J. Solove chair in surgical oncology. Breast and thyroid cancer continue to be the focus of his clinical and research activities. Dr. Farrar was also appointed director of the James Care Breast Center, a comprehensive center that makes available all the aspects of the breast cancer diagnosis during one visit, providing mammography, ultrasound, stereotactic breast biopsy, MRI, medical oncology, plastic surgery, radiation medicine, physical therapy, and all other aspects of breast cancer care. He is a past member of the Commission on Cancer of the American College of Surgeons and continues as principal investigator at The Ohio State University Medical Center for the National Surgical Breast and Bowel Project. Dr. Farrar serves on the breast treatment, breast cancer prevention and thyroid cancer guidelines committees of The National Comprehensive Cancer Network. At The James Cancer Hospital, he continues to serve as medical director and also serves on the leadership council which is working toward a major expansion of the James. Dr. Farrar has been listed as a best doctor in America for 8 years.

Dr. William Kraybill continues to be a very active member of the division’s clinical activity in melanoma and sarcoma. He joined us in May of 2009 having had a distinguished career at The Roswell Park Cancer Institute where he led the melanoma and sarcoma service for more than 17 years. He continues to serve on a number of radiation therapy oncology group committees and was inducted into the American Surgical Society last year. Because of his distinguished career and experience, he serves as a great mentor for our young faculty, our fellows, as well as residents and medical students.

Dr. Edward Martin is an international leader in gastrointestinal cancer and continues to evaluate the detection of recurrent colon cancer. He participates in a R21 grant entitled “The Probe Assisted PET CT Guided Surgery for Colon Cancer” and received an ROI for “The Integrated System for Tumor Detection and Targeting Drug Therapy of Cancer”. A prolific author, Dr. Martin has authored over 200 publications on different aspects in the detection and surveillance of colon cancer. His research has resulted in numerous national presentations and one of his papers was accepted for presentation last year at the American College of Surgeons Surgical Forum. Dr. Martin continues to be a leader in teaching surgical principles to residents and fellows at The James.
Dr. John Phay recently joined the division of surgical oncology in July of 2009. Dr. Phay specializes in endocrine surgery and joined us after having a distinguished career in endocrine surgery at Vanderbilt University. He has been very active in laboratory research under the mentorship of Dr. Matt Ringel doing research in thyroid cancer. He brings to the division a needed expertise in adrenal tumors, thyroid cancers, and parathyroid disease.

Dr. Stephen Povoski, a leader in breast cancer prevention, continues to serve as director of our High Risk Breast Cancer Clinic. He is a leader in innovative techniques for the treatment in breast cancer and has been the principal investigator on our partial radiation therapy program. Dr. Povoski has also been working with the Division of Nuclear Medicine to evaluate near infrared/ultrasound dual mobile imaging for breast cancer. He is a co-investigator on a pilot study evaluating the combined and integrated technologic approach of 18F-FDG directed peri-operative PET-CT imaging and intra-operative hand held gamma probe detection of neuroendocrine and occult disease in patients undergoing surgery for solid malignancy. He was appointed the principle investigator for the “lymphoseek” radiolabeled tracer program. He continues to serve on a number of editorial boards having recently been named as editor of The World News Journal of Surgical Oncology.

Dr. Carl Schmidt recently joined the Division of Surgical Oncology after completing a fellowship in surgical oncology at the Memorial Sloan Kettering Cancer Institute in New York City. He comes to us with a strong interest in GI malignancy and already has established a very strong clinical practice in this area. He has become an excellent educator, not only for our fellowship program, but for our residents and students. His research includes collaboration with mentors at Ohio State and Industry Partners to develop novel technology for improved local and regional liver therapies. He has three approved IRB protocols to evaluate these technologies. He also is working with Dr. Ron Xu to develop and use heat sensitive micro bubbles to enhance thermal ablation of liver and pancreatic malignancies. He also serves as a consultant and the external advisory board member for Ethicon Endo Surgery for a novel technology called reversible electroporation which can be used as an ablation modality for solid tumors and may have health related applications.

Dr. Lisa Yee, an excellent clinician and researcher, has a number of translation clinical trials for which she continues to recruit patients. She maintains a very busy practice in breast oncology and serves as our division liaison with the medical students. She continues her basic research in fatty acids and breast cancer prevention.
Faculty

**William B. Farrar, MD**
Arthur G. and Mildred C. James and Richard J. Solove Chair in Surgical Oncology; Professor of Surgery; Chief, Division of Surgical Oncology; Director, Medical Affairs, The Arthur G. James Cancer Hospital and Richard J Solove Research Institute; Director, The James Comprehensive Breast Center

**BA:** Illinois Wesleyan University, Bloomington, Il., 1971
**MD:** University of Virginia, Charlottesville, Va., 1975

**Specialty Training:** The Ohio State University, Columbus, Oh.; Memorial Sloan-Kettering Cancer Center, New York, NY

**Appointment:** 1982

**Specialty Interests:** Breast disease, thyroid disease, head and neck cancer

**Research Interests:** Breast cancer (high-risk breast cancer clinic, clinical studies for the adjuvant treatment of breast cancer, role of stereotactic biopsy for diagnosis, use of sestamibi in breast cancer diagnosis); thyroid cancer (role of aspiration biopsy and follicular neoplasms, extent of surgery for thyroid cancer); parathyroid disease (localization studies using sestamibi and Neoprobe)

---

**Sherif R. Z. Abdel-Misih, MD**
Assistant Professor of Surgery, Clinical

**BA:** Franklin and Marshall College, Lancaster, Pa., 1997
**MMS:** MCP Hahnemann University, Philadelphia, Pa., 1999
**MD:** Jefferson Medical College, Philadelphia, Pa., 2003

**Specialty Training:** General surgery residency, Cleveland Clinic Foundation, Cleveland, Ohio; Surgical oncology fellowship, The Ohio State University, Columbus, Oh.

**Appointment:** August 1, 2010

**Specialty Interests:** Gastrointestinal Malignancies, Peritoneal Surface Malignancies & Carcinomatosis, Appendiceal Cancer, Colorectal Cancer, Pancreas Cancer, Sarcoma

**Research Interests:** Peritoneal Surface Malignancies & Carcinomatosis, Appendiceal Cancer, Gastrointestinal Malignancies

---

**Doreen M. Agnese, MD**
Assistant Professor of Surgery and Internal Medicine, Clinical

**MD:** University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, NJ, 1993

**Specialty Training:** General surgery internship and residency, research fellowship, University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, NJ; fellowship in surgical oncology and clinical cancer genetics, The Ohio State University, Columbus, Oh.

**Appointment:** 2004

**Specialty and Research Interests:** Breast cancer, melanoma, cancer genetics, all aspects of surgical oncology
Mark Bloomston, MD
Associate Professor of Surgery
BS: Florida State University, Tallahassee, Fl., 1992
MD: University of South Florida, Tampa, Fl., 1997
Specialty Training: Internship, residency, and research fellowship in general surgery, University of South Florida, Tampa, Fl.; fellowship in surgical oncology, The Ohio State University, Columbus, Oh.
Appointment: 2006
Specialty and Research Interests: Pancreatic and alimentary tract cancers

William E. Carson, III, MD
Professor of Surgery
BS: University of California, Irvine, Ca., 1982
MD: University of Southern California, Los Angeles, Ca., 1986
Specialty Training: University of California, Irvine, Ca.: Roswell Park Cancer Institute, Buffalo, NY
Appointment: 1997
Specialty Interests: Breast cancer
Research Interests: The role of natural killer cells in septic shock

William G. Kraybill, MD
Professor of Surgery
BA: Earlham College, Richmond, In., 1965
MD: University of Cincinnati, Cincinnati, Oh., 1969
Specialty Training: Internship at Santa Clara Valley Medical Center, San Jose, Ca.; Residency and Fellowship at University of Oregon Health Sciences Center, Portland, Or.; Fellowship in Surgical Oncology at Memorial Sloan-Kettering Cancer Center, New York, NY
Appointed: 2009
Specialty Interests: Malignant melanoma and other aggressive skin cancers, soft tissue sarcomas
Research Interests: Clinical trials in tumors, multidisciplinary management of tumors, whole body hyperthermia

Edward W. Martin, Jr., MD
Professor of Surgery
BS: Ohio University, Athens, Oh., 1967
MD: Meharry Medical College, Nashville, Tn., 1972
Specialty Training: National Institutes of Health training, The Ohio State University, Columbus, Oh.; American Cancer Society Advanced Fellowship, The Ohio State University, Columbus, Oh.
Appointment: 1977
Specialty Interests: Gastrointestinal malignancies
Research Interests: Radioimmunoguided surgery, tumor markers, biologic response modifiers, liver metastatic model, dormant cancer cells, vaccines
John E. Phay, MD
Associate Professor of Surgery, Clinical
BA: Williams College, Williamstown, Ma., 1987
MD: University of California at San Francisco School of Medicine, San Francisco, Ca., 1993
Specialty Training: Resident in General Surgery, Washington University School of Medicine, St. Louis, Mo.
Appointed: July 1, 2009
Specialty Interests: Thyroid cancer, benign thyroid disease, parathyroid disease, multiple endocrine neoplasia, surgical adrenal disease (laparoscopic adrenalectomy)
Research Interests: Thyroid cancer, glucose metabolism in malignancy, parathyroid surgical imaging
Previous Appointment: Assistant Professor of Surgery, Division of Surgical Oncology and Endocrinology, Vanderbilt University, Nashville, Tenn.

Stephen P. Povoski, MD
Associate Professor of Surgery
BS: State University of New York, Buffalo, NY, 1985
MD: State University of New York Health Science Center, Syracuse, NY, 1989
Specialty Training: University of Cincinnati Medical Center, Cincinnati, Oh.; Memorial Sloan-Kettering Cancer Center, New York, NY
Appointment: 2001
Specialty Interests: Breast cancer, breast diseases
Research Interests: Sentinel lymph node mapping and biopsy for breast cancer, image-guided/minimally invasive breast biopsy, high-risk breast cancer clinic, ductal lavage

Carl R. Schmidt, MD, MSCI
Assistant Professor of Surgery, Clinical
BS: University of Michigan, Ann Arbor, Mi., 1995
MD: University of Michigan, Ann Arbor, Mi., 1999
MS: Vanderbilt University, Nashville, Tn., 2004
Specialty Training: General surgery residency, Vanderbilt University Medical Center, Nashville, Tn.; surgical oncology fellowship, Memorial Sloan-Kettering Cancer Center, New York, NY
Appointment: 2008
Specialty Interests: Gastrointestinal and hepatobiliary malignancies
Research Interests: Novel therapeutic strategies and imaging modalities for metastatic liver tumors
Alicia M. Terando, MD  
Assistant Professor of Surgery, Clinical  
**BA:** University of Virginia, Charlottesville, Va., 1994  
**MD:** Medical College of Pennsylvania, Philadelphia, Pa., 1998  
**Specialty Training:** General surgery residency, University of Michigan, Ann Arbor, Mi.; Research fellowship, University of Michigan, Ann Arbor, Mi.; Surgical oncology fellowship, John Wayne Cancer Institute, Santa Monica, Ca.  
**Appointment:** July 1, 2010  
**Specialty Interests:** Surgical and multimodal immunotherapy for high-risk/metastatic melanoma  
**Research Interests:** Tissue culture, flow cytometry, murine experimental techniques  

Lisa D. Yee, MD  
Associate Professor of Surgery, Clinical  
**BA:** University of California, San Diego, Ca., 1982  
**MD:** Yale University, New Haven, Cn., 1986  
**Specialty Training:** Mount Sinai Medical Center, Miami, Fl.  
**Appointed:** 1996  
**Specialty Interests:** General surgical oncology  
**Research Interests:** Tumor progression and metastasis  

New Faculty Appointments

Sherif R. Z. Abdel-Misih, MD  
Assistant Professor of Surgery, Clinical  
Appointment: August 1, 2010  

Alicia M. Terando, MD  
Assistant Professor of Surgery, Clinical  
Appointment: July 1, 2010

Faculty Departures

Wiley W. “Chip” Souba, Jr, MD  
Professor of Surgery; Dean, The Ohio State University College of Medicine; Vice President for Health Sciences, The Ohio State University Medical Center  
Date of resignation: September 30, 2010  
Current appointment: Dean, Dartmouth Medical School; Vice President for Health Affairs, Dartmouth College, Hanover, NH
Resident Staff

David Arrese, MD  
PGY-7  
BS: Instituto Tecnologico de Santo Domingo, Dom Rep. 1998  
MD: Instituto Tecnologico de Santo Domingo, Dom Rep. 2002

Ravi J. Chokshi, MD  
PGY-7  
BA: Ursinus College, 1999  
MD: Ross University School of Medicine, 2003

Natalie Jones, MD  
PGY-6  
BA: The University of Virginia, Charlottesville, VA 2000  
MD: The Ohio State University, Columbus, OH 2004

Megan McNally, MD  
PGY-6  
Combined 6 year BLA-MD: University of Missouri at Kansas City, Kansas City Missouri, 2005

Mission

The Division of Surgical Oncology is dedicated to the evaluation and management of cancer and to cancer research and education.

Accomplishments in Research

• Faculty members in the division published 32 articles, abstracts, and chapters.

Active Research Grants

Agnese DM. A phase 3, multicenter, randomized trial of sentinel lymphadenectomy and complete lymph node dissection versus sentinel lymphadenectomy alone in cutaneous melanoma patients with molecular or histopathological evidence of metastases in the sentinel node. John Wayne Cancer Institute, June 1, 2006 – October 30, 2011, $46,585.


Carson WE III. Cetuximab therapy of pancreatic cancer: immune modulation with IL-21. National Cancer Institute, through August 2011, $337,430

Carson WE III. Phase 1 trial with two HER-2 B-cell epitope vaccine in patients with solid tumors. National Cancer Institute, through July 2012, $660,000.
Carson WE III. A biobehavioral intervention for patients with breast cancer recurrence. National Cancer Institute, through February 2012, $363,000.

Carson WE III. SOCS proteins as inhibitors of immune surveillance in the melanoma microenvironment. National Cancer Institute, through August 2012, $453,500.


Carson WE III. Tumor immunology. National Cancer Institute, June 1, 2008 – May 31, 2013, $224,780.


Farrar WB. Breast and bowel treatment protocols agreement. NSABP Fdn., Inc, through January 2012, $624,690.


Povoski SP. A phase 4 study to evaluate the long-term impact of identifying tumor-draining lymph nodes using lymphoseek in patients with breast cancer or melanoma. Neoprobe Corporation, through October 31, 2011, $9,250.


Yee LD. Prevention of aromatase inhibitor-induced joint symptoms with omega 3 fatty acid supplementation: a randomized placebo controlled pilot study. Brigham and Women’s Hospital, Inc., through May 2012, $114,343.

Yee LD. Proteomic analysis of RPFNA cytology. Duke University, through May 2011, $12,600.

Yee LD. Omega 3 fatty acids and breast cancer prevention: protective benefits of increased fish consumption. National Fisheries Institute, through March 2012, $20,962.

Yee LD. Dietary fatty acids, macrophages, and HER-2/neu-mediated mammary carcinogenesis. Army Medical Research Acquisition Activity, September 15, 2008 – September 14, 2011, $450,000.


Clinical Programs

- Comprehensive surgical oncology service provides leadership for multimodality programs; breast, endocrine, gastrointestinal, melanoma, neuroendocrine and sarcoma.

Accomplishments in Clinical Care

- Attending faculty in the division performed 4,474 operating room procedures and received 18,299 outpatient visits.
Clinical Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>4,474</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>18,299</td>
</tr>
<tr>
<td>Admissions</td>
<td>859</td>
</tr>
<tr>
<td>Patient Days</td>
<td>5,545</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>7.93</td>
</tr>
</tbody>
</table>

Educational Programs

- Two-year fellowship in surgical oncology, which includes 18 months of clinical work and six months of basic research.
- Comprehensive rotation in surgical oncology for third- and fourth-year residents in general surgery.
- Subinternship in surgical oncology.

Accomplishments in Education

- Completion of the fellowship in surgical oncology by Dr. David Arrese and Dr. Ravi Chokshi.
- Dr. Natalie Jones and Dr. Megan McNally began surgical oncology fellowships.

Publications

Abdel-Misih S, Hatzaras I, Muscarella P, Melvin WS, Ellison EC, Schmidt S, Bloomston M. Failure of normalization of CA19-9 following resection for pancreatic cancer is tantamount to metastatic disease. *Annals of Surgical Oncology*. April 2011. 18(4); 1116-1121


Abdel-Misih S, Broome J, Li X, Arrese D, Chambers EP, Jacobs JK, Phay JE. Changing intraoperative parathyroid hormone collection sites from peripheral to central does not affect predictive accuracy during parathyroidectomy. *Annals of Surgical Oncology*. March 2011. 18(3); 771-776


Guenterberg KD, Lesinski GB, Mundy-Bosse BL, Karpa VI, Jaime-Ramirez AC, Wei L, Carson WE. Enchanced anti-tumor activity of interferon-alpha in SOCS1-deficient mice is mediated by CD4(+) and CD8(+) T cells. *Cancer Immunol Immunother.* 2011 May 21


Mundy-Bosse BL, Thornton LM, Yang HC, Andersen BL, **Carson WE**. Psychological stress is associated with altered levels of myeloid-derived suppressor cells in breast cancer patients”. *Cell Immunol*. 2011;270(1):80-7

Mundy-Bosse BL, Young GS, Bauer T, Binkley E, **Bloomston M**, Bill MA, Bekaii-Saab T, **Carson WE**, Lesinski GB. Distinct myeloid suppressor cell subsets correlate with plasma IL-6 and IL-10 and reduced interferon-alpha signaling in CD4(+) T cells from patients with GI malignancy. *Cancer Immunol Immunother*. 2011 May 21


**Book Chapters**


International Presentations

Carson WE. Choonam National University Hospital 100th Anniversary, Keynote address: Monoclonal antibody therapy of cancer. Gwangju City, South Korea, September 26, 2010

National Presentations


Bloomston M. Surgical management of hepatic neuroendocrine metastases. 3rd Annual GI/Hepato Pancreato-Biliary Oncology Symposium. Wake Forest University, Winston-Salem, NC, April 2011

Carson WE. Adventures in tissue acquisition. caBIG® Annual Meeting: Building a Collaborative Biomedical Network Plenary Session: Enabling Translational Research with caBIG®, Washington DC, September 13, 2010

Collins A, Bloomston M. Oral presentation, Splenic preservation at the time of distal pancreatectomy is of limited clinical benefit. 2nd Annual National Predoctoral Clinical Research Training Program Meeting, Washington University, St. Louis, Mo., 2010


Collins AL, Rock J, Malhotra L, Frankel WL, Bloomston M. Poster presentation, Osteopontin is associated with improved survival in patients with pancreatic adenocarcinoma. 64th Annual Cancer Symposium of the Society of Surgical Oncology, San Antonio, Tx., 2011

Jones NB, Wakely PE, Klemanski DL, Al-Saif O, Young G, Frankel WL, Martin EW, Bloomston M. Poster presentation, Cytopathologic evaluation of the in-situ margin in patients undergoing hepatectomy. 64th Annual Cancer Symposium of the Society of Surgical Oncology, San Antonio, Tx., 2011

Miscellaneous Presentations

Abdel-Misih S. Cancer palliation: Psychosocial & medical challenge. Department of Surgery Grand Rounds, The Ohio State University Medical Center, Columbus, Oh., April 14, 2011

Abdel-Misih S. Presenter, Metastatic mucinous adenocarcinoma. Gastrointestinal Cancers 2010: A Multidisciplinary Approach to Prevention, Diagnosis, And Treatment. Columbus, Oh., October 8, 2010

Bloomston M. An institutional approach to neuroendocrine carcinoma. Gastrointestinal Cancer Symposium. Ohio State University, Columbus, Oh., October 2010

Carson WE. Small Group Panel: Approaching burnout - How to avoid physician scientist burnout. Inaugural Midwest Regional Meeting of the American Physician Scientists Association. Columbus, Oh., October 30, 2010


Collins A, Wojcik S, Croce C, Bloomston M. Poster presentation, Pancreatic stellate cells induce overexpression of microRNA-21 and microRNA-210 in pancreatic cancer cells in hypoxia. 10th Annual OSUMC Research Day, The Ohio State University, Columbus, Oh., June 2011

Collins A, Wojcik S, Croce C, Bloomston M. Oral presentation, Pancreatic stellate cells induce overexpression of microRNA-21 and microRNA-210 in pancreatic cancer cells in hypoxia. 16th Annual Department of Surgery Research Conference, The Ohio State University, Columbus, Oh., June 2011


Phay JE. Presenter. Thyroid nodules and the rising incidence of thyroid cancer. Presented at Grand Rounds. Southern Ohio Medical Center. Portsmouth, Oh., March 18, 2011

Phay JE, Farrar W, Teknos T. Controversies in thyroid cancer surgery for residual/recurrent differentiated and medullary thyroid cancer. Panelist. Ernest L. Mazzaferrri Thyroid Cancer Conference from Predisposition to Therapy: A Bench to Bedside Symposium. The Ohio State University, Columbus, Oh., November 19, 2011

Schmidt CR. Lecturer. Multidisciplinary management of colorectal hepatic malignancies. Presented at Tumor Conference, to Upper Valley Medical Center. Troy, Oh., April, 2011

Tassone PT, Arrese D, Bloomston M. Poster presentation, Expectant management of the asymptomatic primary is safe in patients undergoing chemoembolization for metastatic neuroendocrine carcinoma. 10th Annual OSUMC Research Day, The Ohio State University, Columbus, Oh., 2011

Distinguished Visiting Professor

**Daniel Coit, MD, FACS**  
Professor of Surgery, Weill-Cornell Medical School  
Attending Surgeon and Co-Leader, Melanoma Disease Management Team, Memorial Sloan – Kettering Cancer Center / Sloan Kettering Institute, New York, NY  
The 2nd Annual Michael J Walker Memorial Lectureship in Surgical Oncology: “Melanoma – Myths and Misconceptions”  
September 3, 2010
Division of Thoracic Surgery
The Division of Thoracic Surgery has had a successful first year in its voyage as a newly created division within the Department of Surgery. We have had ongoing growth in clinical programs, research and scholarship as well as recruitment of faculty. By its nature, Thoracic Surgery is multidisciplinary. This is reflected in the activity of the division. We have developed multidisciplinary teams to support the programs in Thoracic Oncology. This includes strong collaborative efforts within the Lung and Gastrointestinal Disease sites at The James. We share many clinical trials with Medical Oncology as well as Radiation Oncology through CALGB, RTOG, and ACOSOG. This multidisciplinary approach allows us to offer a differentiated product to the patients seeking their care for thoracic oncology at The James. We have had additional growth in our program in photodynamic medicine which is internationally recognized. Ohio State will host a multidisciplinary symposium on photodynamic medicine in May 2012. Our Joint Commission certified Lung Volume Reduction Surgery program excels because of its interdisciplinary structure. We are developing a program for tracheal surgery and reconstruction. This will be led by Vincent Daniel, M.D. who joined our team in January 2011 after completing his training at Johns Hopkins (General Surgery) and Massachusetts General Hospital (Thoracic Surgery).

The faculty have had a productive year with respect to scholarship. Our academic achievements reflect collaborations around the medical center with multiple teams. We have welcomed John Wilson, PhD onto the team; Dr. Wilson, who has trained in cancer epidemiology, has been instrumental in moving our outcomes studies forward. The faculty has published twenty peer reviewed articles and book chapters. We have presented more than a dozen local and regional talks, fifteen national meetings, and three international symposia. The research interests range from clinical outcome studies in lung and esophageal cancer to basic science mechanisms such as mechanism of action for PDT and...
studies in T-cell regulation. Our research efforts have consistently included residents and medical students on the team; many of these trainees have participated in the presentations and publications.

The Division of Thoracic Surgery has achieved its goals this year. We look forward to continued growth and success in our clinical and academic missions next year.
Faculty

Patrick Ross, Jr., MD, PhD
Professor of Clinical Surgery; Chief, Division of Thoracic Surgery
AB: Harvard University, Cambridge, Ma., 1977
MD, PhD: St. Louis University, St. Louis, Mo., 1983
Appointment: 1991
Specialty Interests: Lung volume reduction, thoracic surgical oncology, benign noncardiac thoracic disease, lung transplantation
Research Interests: New modality lung cancer therapy

Vincent C. Daniel, MD
Assistant Professor- Clinical
BA: Vanderbilt University, Nashville, Tn., 1994
MD: University of Tennessee College of Medicine, Knoxville, Tn., 2001
Specialty Training: Internship and residency in general surgery, The Johns Hopkins Hospital, Baltimore, Md., 2001-2008; fellowship in thoracic surgery, Massachusetts General Hospital, Boston, Ma., Mayo Clinic, Rochester, Mn., and Memorial Sloan-Kettering Cancer Center, New York, NY, 2008-2010
Appointment: January 1, 2011
Specialty Interests: Lung cancer, esophageal cancer, tracheal surgery, mediastinal tumors, esophageal motility disorders, minimally invasive thoracic surgery
Research Interests: Molecular markers of lung and esophageal cancer, clinical trials for lung and esophageal cancer, animal models of lung cancer

Edmund S. Kassis, MD
Assistant Professor of Surgery
BS: University of Pittsburgh, Pittsburgh, Pa., 1992
MD: University of Pittsburgh, Pittsburgh, Pa., 1999
Appointment: July 1, 2009
Specialty Interests: Thoracic surgical oncology, lung cancer, esophageal cancer, mediastinal masses, minimally invasive thoracic surgery.
Research Interests: Thoracic oncology, translational research in lung and esophageal cancer, molecular genetics, staging.
Susan D. Moffatt-Bruce, MD, PhD
Assistant Professor of Surgery
BA: McGill University, Montreal, Quebec, Canada, 1990
MD: Dalhousie University, Halifax, Nova Scotia, Canada, 1994
PhD: University of Cambridge, Cambridge, United Kingdom, 1999
Specialty Training: Residency in general surgery, Dalhousie University, Halifax, Nova Scotia, Canada; fellowship in cardiothoracic surgery, Stanford University, Palo Alto, Ca.
Appointment: 2006
Specialty Interests: Lung transplant, heart transplant, transplant outcomes, thoracic oncology
Research Interests: Transplant immunology

John Wilson, PhD
Research Assistant Professor
BS: East Tennessee State University, Johnson City, Tn., 1970
MS: State University of New York at Buffalo, Buffalo, NY, 1976
PhD: State University of New York at Buffalo, Roswell Park Cancer Institute Graduate Division, Buffalo, NY, 1981
Appointment: April 1, 2011
Research Interests: Assessing outcomes and cost effectiveness of cancer therapy, primary methodologic interest is in assessing patients’ preferences for use in treatment and policy decision-making

New Full-Time Faculty Appointments

Vincent Daniel, MD
Assistant Professor- Clinical

John Wilson, PhD
Research Assistant Professor

Faculty Departures

Paul Vesco, MD
Assistant Professor of Surgery
Date of resignation: December 1, 2010
Current appointment: Cardiothoracic Surgery, Sarasota, FL
Emeritus Faculty

J. Terrance Davis, MD
Professor Emeritus of Clinical Surgery
BA: Williams College, Williamstown, Ma., 1963
MD: University of Pennsylvania, Philadelphia, Pa., 1967

Gerard S. Kakos, MD
Clinical Associate Professor Emeritus of Surgery
BA: The Ohio State University, Columbus, Oh., 1964
MD: The Ohio State University, Columbus, Oh., 1967

James W. Kilman, MD
Professor Emeritus of Surgery
BS: Indiana State University, Terre Haute, In., 1956
MD: Indiana State University, Indianapolis, In., 1960

Charles V. Meckstroth, MD
Professor Emeritus of Surgery
BA: The Ohio State University, Columbus, Oh., 1944
MD: The Ohio State University, Columbus, Oh., 1947
MMSc (Surgery): The Ohio State University, Columbus, Oh., 1950

Howard D. Sirak, MD
Professor Emeritus of Surgery
AB: University of Pennsylvania, Philadelphia, Pa., 1943
MD: The Ohio State University, Columbus, Oh., 1947
MMSc (Surgery): The Ohio State University, Columbus, Oh., 1953

Resident Staff

Shelley Bansal, MD
PGY-6
BS: Youngstown State University, Youngstown, Oh., 2000
MD: Saint Eustatius School of Medicine, Sint Eustatius, Netherlands Dutch Caribbean, 2004

Dana Booth, MD
PGY-6
BS: University of California, San Diego, San Diego, Ca., 1997
MS: University of California, San Diego, San Diego, Ca., 1999
MD: Medical College of Wisconsin, Milwaukee, Wi., 2003
**Sergio Carrillo, MD**  
PGY-7  
**MD:** Universidad de San Carlos, Guatemala, 2002

**Karen Nelson, DO**  
PGY-6  
**BS:** Mercer University, Macon, Ga., 1997  
**BA:** University of Kentucky, Lexington, Ky., 2000  
**DO:** Lake Erie College of Osteopathic Medicine, Erie, Pa., 2005

**Charles Jason Rousseau, DO**  
PGY-7  
**BS:** Samford University, Birmingham, Al., 2000  
**DO:** Nova Southeastern University College of Osteopathic Medicine, Ft. Lauderdale, Fl., 2004

**Mission**

The Division of Thoracic Surgery is dedicated to developing and applying multidisciplinary care for malignant and benign diseases of the chest.

**Research Programs**

- A Novel Approach to Generate Regulatory T Cells using CD103 Depletion.

- A Prospective Multi-Center Randomized Clinical Study to Evaluate the PleuraSeal Sealant System as an Adjunct to Standard Closure Techniques for Control of Visceral Pleural Air Leaks Following Elective Pulmonary Resection Via Open Thoracotomy.

- Autofluorescence Bronchoscopy.

- Case Analysis on real Life Incidence of PDT Safety Outcomes: Multicentre, observational postmarketing safety surveillance registry of patients exposed to photodynamic therapy with porfimer sodium: The CALIPSO Registry.

- Comparative Mutational Profiling as the Standard of Care in Assessing Lung Lesions.

- Immunobiology of photodynamic therapy in Lung Cancer Patients.

- Mechanisms of Bronchiolitis Obliterans in Pediatric and Adult Lung Transplants.
**Accomplishments in Research**

- Klassen Research Day, June 2011, Klassen lecturers Irving Kron, M.D. and Ann Marie Schmidt, M.D. Dr. Kron, Chairman of the Department of Surgery and S. Hurt Watts Professor of Surgery at University of Virginia, President of the American Association for Thoracic Surgery presented “The Future of Cardiac Surgery”. Dr. Schmidt, Director of the Diabetes Research Program at New York University Langone Medical Center, first Iven Young Professor of Endocrinology at NYU, has served on advisory committees and chaired conferences for the National Institutes of Health, the American Heart Association, the Juvenile Diabetes Association, the American Diabetes Association and she received the David Rumbough Research Award from the JDRF in 2010. Dr. Schmidt presented “RAGE, Signal Transduction and the Complications of Diabetes”.

**Active Research Grants**


**Kassis E.** Correlation of Stage-Specific MicroRNA Profile with Pathologic Stage, Recurrence and Survival in Patients with Resected Non-Small Cell Lung Cancer”. The Ohio State University Research Investment Fund, 2009 – Present, $200,000

**Moffatt-Bruce S.** The Role of Macrophages in Acute Cellular Rejection in Cardiac Transplant, K12 Scholars Award 2009–2011, $196,000/year
Moffatt-Bruce S. The Role of T Cells and Macrophages in Acute Cardiac Rejection. American Heart Association, July 1, 2010 – June 30, 2012 $60,500

Moffatt-Bruce S. The Role of Macrophages in Acute Cellular Rejection.” NIH/TSFRE, 2010 – 2015, $150,000

Moffatt-Bruce S. The Role of T Regulatory Cells and Regulatory Cells in Acute Cellular Rejection.” American Heart Association, July 2010 – July 2012, $170,000


Clinical Programs

• Adult thoracic surgery
• Electromagnetic bronchoscopy
• Endobronchial ultrasound
• Lung volume reduction surgery
• Photodynamic therapy
• Robotic surgery
• Thoracic oncology multidisciplinary clinic
• Tracheal reconstruction

Clinical Statistics

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>1,167</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>1,745</td>
</tr>
<tr>
<td>Admissions</td>
<td>1,251</td>
</tr>
<tr>
<td>Patient Days</td>
<td>5,131</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>5.69</td>
</tr>
</tbody>
</table>
Educational Programs

- Two-year cardiothoracic surgery fellowship accredited by the Accreditation Council for Graduate Medical Education.
- Comprehensive rotation in thoracic surgery for first- and third-year residents in general surgery.

Accomplishments in Education

- Completion of the cardiothoracic surgery fellowship by Dr. Sergio Carrillo and Dr. Jason Rousseau in June 2011.

Community Outreach Programs

Thoracic Oncology Team for Pelotonia: a grassroots bike tour with one goal: to end cancer. 100% of all funds raised by Pelotonia directly support cancer research conducted at the Comprehensive Cancer Center and James Cancer Hospital/Solove Research Institute (OSUCCC-James) at The Ohio State University.

Publications


Gonsenhauser I, Abaza R, Mekhjian H, **Moffatt-Bruce SD.** Robotic Surgery Quality Assessment Program: Engaging medical students. *Journal of Healthcare Improvement* (Formally Accepted) 2011 March

Gonsenhauser I, Beal E, Shihadeh F, Mekhjian HS, **Moffatt-Bruce SD.** Development and assessment of quality improvement education for medical students at The Ohio State University Medical Center. *Journal of Healthcare Improvement* (Accepted) 2011 June

Gonsenhauser I, **Moffatt-Bruce SD.** Evaluating robotics procedures using balanced scorecards. *Journal of the American College of Surgeons* 2010 September;S3(211):S108-S109

**Haubert L, Way D, DePhilip R, Tam M, Bishop J, Jones K, Moffatt-Bruce SD.** Surgeons as medical school educators: An untapped resource. *Anatomical Sciences Education* (Accepted) 2011 March


Lo S, **Moffatt-Bruce SD,** Mayr N. The role of local therapy in the management of oligometastasis. *Nature Reviews Clinical Oncology* (Accepted) 2011 April

Mallet R, Conroy M, Saslaw L, **Moffatt-Bruce SD.** Preventing wrong site procedure and patient events using a common cause analysis. *American Journal of Medical Quality* (Accepted) 2011 May


Abstracts


Gonsenhauser I, **Moffatt-Bruce SD.** Evaluating robotic procedures using balanced scorecards. American College of Surgeons Annual Congress, Washington, DC, October 2010

**Ross P.** Endoluminal management of bronchogenic carcinoma. American College of Surgeons Annual Congress, Washington, DC, October 6, 2010


Book Chapters


International Presentations


National Presentations


Gonsenhauser I, Moffatt-Bruce SD. Evaluating robotic procedures using balanced scorecards. ACS Annual Congress, Washington, DC, October 2010

Haubert L, Moffatt-Bruce SD. Surgeons as educators: An untapped resource. American Association of Academic Anatomists, Honolulu, Hi., July 2010

Moffatt-Bruce SD. Chronic Allograft Rejection: The role of macrophage associated transcripts: CCL17, CCL22 and IL-6. The American Society of Transplantation, Annual Scientific Exchange, Orlando, Fl., October 2010

Moffatt-Bruce SD. Preventing wrong site, procedure and person events using common cause analysis. Sixteenth International Scientific Symposium on Improving Quality and Value in Health Care, Orlando, Fl., December 6, 2010

Moffatt-Bruce SD. Achieving accountability: Engaging the team. University of Louisville, Louisville, Ky., February 21, 2011


Miscellaneous Presentations

Bobek D, Meyerson J, Wang J-J, Jackson H, Hadley G, Moffatt-Bruce SD. Chronic cardiac allograft rejection: the potential role of macrophages and the activation-associated transcripts, CCL17, CCL22 and IL-6. 10th Annual Dorothy M. Davis Heart & Lung Research Institute Research Day, Columbus, Oh., October 12, 2010

Daniel V. Superior sulcus tumors. Upper Valley Medical Center, Troy, Oh., June 13, 2011

Daniel V. Surgical management of tracheal disorders. Surgery Grand Rounds, The Ohio State University, Columbus, Oh., June 16, 2011

Kassis E. Staging and management esophageal carcinoma. Licking Memorial Hospital, Newark, Oh., 2010

Kassis E. Minimally invasive esophageal surgery: Where do we go from here? Gastrointestinal Cancers 2010: A Multidisciplinary Approach to Prevention, Diagnosis and Treatment, Columbus, Ohio, October 8, 2010

Kassis E. Thoracic surgery. MSIII Podcast on Thoracic Surgery, The Ohio State University, Columbus, Oh., October 22, 2010

Kassis E. Management of superior sulcus tumors. General Surgery Grand Rounds, The Ohio State University, Columbus, Oh., February 24, 2011

Moffatt-Bruce SD. Zero Defects. Quality and Patient Safety Series, The Ohio State University College of Medicine, Columbus, Oh., July 2010

Moffatt-Bruce SD. Assessment of the high risk patient. Quality and Patient Safety Series, The Ohio State University College of Medicine, Columbus, Oh., September, 2010

Moffatt-Bruce SD. Transplant related heart failure: The potential role of macrophages. From Bench to Bedside: Comprehensive Transplant Center Lecture Series, The Ohio State University College of Medicine, Columbus, Oh., October, 2010
Moffatt-Bruce SD. Human factors. Quality and Patient Safety Series, The Ohio State University College of Medicine, Columbus, Oh., October, 2010


Ross P. Endoluminal management of lung cancer: Photodynamic therapy. 2010 Lung Cancer Conference, The Ohio State University Medical Center, Columbus, Oh., November 3, 2010

Ross P. Minimally invasive thoracic and UGI procedures. Good Samaritan Hospital, Zanesville, Oh., June 9, 2011

Distinguished Visiting Professors

James Luketich, MD
Chair of the Department of Cardiothoracic Surgery, Professor of Surgery, University of Pittsburgh, Pittsburgh, Pa., “Evolution of Minimally Invasive Esophagectomy”, March 4, 2011

Irving Kron, MD
President of the American Association for Thoracic Surgery, Chairman of the Department of Surgery and the S. Hurt Watts Professor of Surgery, University of Virginia, Charlottesville, Va., “The Present and Future of Cardiothoracic Surgery”, Klassen Research Day, June 16, 2011

Ann Marie Schmidt, MD
The Division of Transplantation continues to combine a busy clinical transplant program with a diverse and productive research effort. Within the Comprehensive Transplant Center (CTC), the division has embarked on a number of collaborative, interdisciplinary endeavors to enhance both the clinical activities and the basic research efforts in transplantation at The Ohio State University Medical Center. The CTC’s team of specialists are pursuing areas of common interest in transplantation, including immunopharmacology, immune assessment and monitoring, immune engineering, information systems, biostatistics, clinical trials, public policy and ethical considerations, and communications and public relations.

Gregg Hadley, PhD, professor of surgery, deputy director of research in the Comprehensive Transplant Center, continued his research examining transplant rejection and graft-versus-host pathology and the development of strategies for therapeutic intervention in these processes. In other basic science research, Dr. Ginny Bumgardner continued her research in hepatocyte and islet transplant murine models, and was recently awarded a National Institute of Allergy and Infectious Diseases/National Institutes of Health (NIAID/NIH) grant to investigate novel mechanisms regulating post-transplant humoral alloimmunity. Dr. Ronald Pelletier continued his work on antibody modulated allograft rejection and immune tolerance.

Clinically, the volume of kidney and pancreas transplantation remains high, buoyed by a strong living-donor program. Under the guidance of Dr. Amer Rajab, the first pancreatic islet transplant in Central Ohio was performed at The Ohio State University Medical Center. Ohio State is one of about a dozen medical centers in the country with a team in place to perform the transplants that improve the quality of life for people with diabetes. The successful procedure represents the culmination of more
than seven years of research. Dr. Rajab has also received funding to test the theory of encapsulating islets to prevent rejection post-transplantation. The division continues to conduct clinical trials examining new and innovative immunosuppressive regimens in the post-transplant patient.

Dr. Mitchell L. Henry, chief of the Division of Transplantation, deputy director of the Comprehensive Transplant Center and professor of surgery, was elected as the 38th president of the American Society of Transplant Surgeons (ASTS). The ASTS is a non-profit organization, committed to fostering and advancing the practice and science of transplantation for the benefit of patients and society. Prior to becoming President, Dr. Henry served four years as a councilor-at-large and chaired several committees. He also serves as the medical director of Lifeline of Ohio Organ Procurement Agency.

Members of the division faculty continue to participate in national organizations, including the American Society of Transplant Surgeons (ASTS), the United Network for Organ Sharing (UNOS), and the Vascular Access Society of the Americas (VASA). Dr. Mitchell Henry serves as president of VASA. Dr. Ginny Bumgardner serves on the board of directors of the American Association for the Study of Liver Diseases (AASLD). Dr. Kenneth Andreoni serves as chair of the subcommittee on National Kidney Paired Donation and co-chair of the subcommittee on Liver-Kidney Allocation, both at UNOS. Jeff Sneddon, senior systems consultant, continues to revise and refine TransChart, a unique, integrated patient information system. The TransChart system has been adopted by several other U.S. transplant centers.

In June 2011, Dr. Anas Alzuhaili, previously a resident at Damascus University Hospitals, in Damascus, Syria, completed the fellowship in transplantation, and began a trauma fellowship at the Hurley Medical Center, in Flint, Michigan. Dr. Rachel Forbes successfully completed the first year of the fellowship in transplantation and has begun her second year. Dr. Sunil Kumar has embarked upon his first year of the transplant fellowship.
Faculty

Mitchell L. Henry, MD
Professor of Surgery; Chief, Division of Transplantation; Deputy Director of Surgical Services, Comprehensive Transplant Center
BS: University of Nebraska, Lincoln, Ne., 1976
MD: University of Nebraska, Omaha, Ne., 1979
Specialty Training: The Ohio State University, Columbus, Oh.
Appointment: 1985
Specialty Interests: Transplantation, immunosuppression
Research Interests: Pancreatic transplantation, xenotransplantation

Kenneth A. Andreoni, MD
Associate Professor of Surgery; Director, Liver Transplantation; Deputy Director of Clinical Research, Comprehensive Transplant Center
BS: Georgetown University, Washington, DC, 1984
MD: Yale University, New Haven, Ct., 1988
Specialty Training: Johns Hopkins University Hospital, Baltimore, Md.; The Ohio State University, Columbus, Oh.
Appointment: 2008
Specialty Interests: Liver transplantation
Research Interests: New anti-rejection drugs, antibody-mediated injury to liver, kidney grafts

Ginny L. Bumgardner, MD, PhD
Professor of Surgery; Associate Dean for Research Education, College of Medicine; Director, Master of Medical Science Program
BS: College of William and Mary, Williamsburg, Va., 1979
MD: University of Virginia, Charlottesville, Va., 1983
PhD: University of Minnesota, Minneapolis, Mn., 1994
Specialty Training: University of Minnesota, Minneapolis, Mn.; University of California at San Francisco, Ca.
Appointment: 1993
Specialty Interests: Transplantation, immunosuppression, post-transplant pregnancy, liver disease and transplantation
Research Interests: Transplantation immunology, liver immunobiology, cellular transplantation
Elizabeth Ann Davies, MD
Clinical Assistant Professor of Surgery
BS: University of Akron, Akron, Oh., 1979
MD: Northeastern Ohio Universities, Rootstown, Oh., 1983
Specialty Training: The Ohio State University, Columbus, Oh.
Appointment: 1993
Specialty Interests: Transplantation, immunosuppression
Research Interests: Transplantation, organ procurement

Elmahdi A. Elkhammas, MD
Professor of Clinical Surgery
MD: Gar-Younis University, Benghazi, Libya, 1977
Specialty Training: The Ohio State University, Columbus, Oh.
Appointment: 1991
Specialty Interests: Transplantation, immunosuppression
Research Interests: Liver transplantation, urologic complications

Gregg A. Hadley, PhD
Professor of Surgery; Deputy Director of Research, Comprehensive Transplant Center
BS: Purdue University, West Lafayette, In., 1975
MS: University of Iowa, Iowa City, Ia, 1979
PhD: University of Minnesota, Minneapolis, Mn., 1986
Specialty Training: Washington University School of Medicine, St. Louis, Mo.
Appointment: 2006
Specialty Interests: Transplant immunology
Research Interests: Mechanisms of organ transplant rejection and graft-versus-host disease

Ronald P. Pelletier, MD
Associate Professor of Surgery; Director, Kidney Transplantation
BS: Trinity College, Hartford, Ct., 1979
MD: University of Cincinnati, Cincinnati, Oh., 1987
Specialty Training: The Ohio State University, Columbus, Oh.
Appointment: 1996
Specialty Interests: Pre- and post-transplant immune status monitoring
Research Interests: Pathophysiology of chronic rejection
Amer Rajab, MD, PhD
Associate Professor of Surgery; Director, Pancreas and Islet Transplantation
MD: Damascus University, Damascus, Syria, 1983
PhD: Lund University, Lund, Sweden, 1991
Specialty Training: University of Texas Southwestern Medical Center, Dallas, Tx.
Appointment: 2001
Specialty Interests: Organ transplantation
Research Interests: Islet transplantation

Emeritus Faculty

Ronald M. Ferguson, MD, PhD
Professor Emeritus of Surgery
BS: Augsburg College, Minneapolis, Mn., 1967
MD: Washington University, St. Louis, Mo., 1971
PhD: University of Minnesota, Minneapolis, Mn., 1982

Fellows

Anas Alzuhalii, MD
Transplantation Fellow/Clinical Instructor of Surgery
MD: Damascus University, Damascus, Syria, 2001

Rachel C. Forbes, MD
Transplantation Fellow/Clinical Instructor of Surgery
MD: Vanderbilt University, Nashville Tn., 2005
Rotating Resident Staff

Fernando Aguila, MD
PGY-3, Mount Carmel Health System

Michael dePerro, MD
PGY-3, Riverside Methodist Hospital

Jamison Foster, DO
PGY-4, Doctors Hospital

Jason Johnson, DO
PGY-4, Doctors Hospital

Meghan Nadeau, MD
PGY-3, Mount Carmel Health System

Jonathan Pulido, MD
PGY-3, Mount Carmel Health System

Ammon Rasmussen, MD
PGY-3, Mount Carmel Health System

Rohit Soans, MD
PGY-3, Riverside Methodist Hospital

Michelle Wood, DO
PGY-4, Doctors Hospital
Mission

The Division of Transplantation is dedicated to building upon a solid foundation of basic, translational, and clinical research in order to define and develop the next generation of high-quality, comprehensive, cost-effective transplant programs.

Research Programs

- Transplant rejection
- Allograft acceptance and transplant tolerance
- Novel immunologic strategies for islet cell transplantation
- Cellular transplantation
- New immunosuppressive compounds

Accomplishments in Research

- **Gregg A. Hadley, PhD** serves as Deputy Director of Research in the Comprehensive Transplant Center. He leads a research program focused on defining mechanisms of chronic tissue injury following transplantation, and the development of novel therapeutic strategies for intervention in these processes.

- **Dr. Ronald Pelletier** continues the division’s investigations into the immunobiology of graft acceptance and the role of alloantibodies in allograft pathobiology. Our recent studies addressing transplantation tolerance suggest that allograft acceptance may evolve through a series of mechanisms involving TGFβ and foxP3 regulatory cells. These mechanisms are associated with donor-reactive alloantibodies and pathology within the grafts, and do not lead to true transplantation tolerance, despite the ability to accept donor matched skin allografts. Our ongoing studies of the role of alloantibodies in transplantation reveal that alloantibodies are not necessarily directed at MHC molecules, but are also directed at tissue associated and tissue-specific molecules. Using new experimental assays for alloantibody detection, our studies have further revealed that some, but not all, of these antibodies are complement-fixing. Investigational studies focusing on humoral allograft rejection in an animal model are designed to carefully characterize the acute inflammatory events leading to Ab-mediated graft damage. We hope to define stages in the process that offer opportunities for therapeutic intervention to ameliorate graft damage.
• **Translational Research in Immunologic Recognition and Post-transplant Outcomes.** Dr. Ronald Pelletier continues his translational research (basic, tissue typing, and clinical) investigating the relationship between cellular and humoral donor-specific immunologic recognition and post-transplant outcomes. Efforts are now under way to foster living donor/recipient pair exchanges to enable increasing numbers of patients to obtain a lifesaving kidney transplant. Additionally, methods for removing circulating alloantibodies in sensitized recipients to permit safe organ transplantation continue to be investigated.

• **Transplantation Immunobiology.** Dr. Ginny Bumgardner continues her investigations in transplant immunobiology, using experimental models of pancreatic islet and hepatocyte (liver cell) transplantation. Dr. Bumgardner’s lab-based research focuses on basic mechanisms of alloimmune mediated hepatocyte injury. She introduced the functional hepatocyte transplantation model using transgenic hepatocytes to study the in vivo immunobiology of allogeneic hepatocellular transplantation in 1998. Published work demonstrates that allogeneic hepatocytes are vulnerable to cell-mediated as well as alloantibody mediated parenchymal cell damage. Her studies using this model in comparison to genetically matched islet transplant and heart transplant have demonstrated the importance of tissue (parenchymal cell type) in determining the phenotype and effector mechanisms comprising alloimmune responses after transplantation. Work from her lab has demonstrated that allogeneic liver parenchymal cells stimulate the maturation of CD4-independent and CD4-dependent allospecific CD8+ cytolytic effectors (allo-CTLs). This pathway is important, because it can cause transplant tissue damage, either early or late after transplant, and interferes with the induction of transplantation tolerance. These CTL subsets are distinct in magnitude of in vivo cytotoxic effector function, CD8+ T cell recall responses in vivo, molecular effector mechanisms which mediate cytotoxicity. Furthermore, these two pathways are differentially susceptible to conventional and experimental immunosuppressive agents. Dr. Bumgardner’s laboratory was the first to report the efficacy of a novel immunosuppressive strategy that successfully suppresses this immunoresistant (CD4-independent) CD8+ T cell mediated immune pathway and promotes long-term allograft survival. Very little is known regarding how CD8+ T cells cause immune damage of allografts and in vivo effector functions of alloreactive CD8+ T cells is a specific focus for investigation. Dr. Bumgardner’s lab is also investigating CD4-dependent humoral immune pathways of allograft damage. Her lab is the first to show that alloantibodies also mediate immune damage of transplanted hepatocytes by a macrophage-dependent, complement-independent, NK-independent cytotoxic effector mechanism. Studies are ongoing to investigate novel mechanisms governing the regulation of posttransplant alloantibody production in an animal model and to investigate translational aspects of these studies in humans. These and other projects have been funded by external sponsors, such as the American Diabetes Association, the Roche Organ Transplant Research Foundation, the American Society of Transplant Surgeons, the American Society of Transplantation and the National Institutes of Health.
Active Research Grants


**Rajab A.** Collaborative islet transplant registry. The EMMES Corp. March 2009 – March 2011, $150.


**Clinical Programs**

- Pre-transplant
- Post-transplant and transplant wellness. The program currently sees more than 2,000 patients
- Living donor kidney
- Kidney transplant
- Liver transplant
- Pancreas transplant
- Vascular access
- Deceased donor
Accomplishments in Clinical Care

- This year, a milestone was achieved with the first allo-islet transplant being performed at Ohio State. Allo-islet transplantation allows diabetic patients to receive the islets from the pancreas of a deceased donor, as the patient’s own islets have ceased to function.

In this first case, the patient was a medical center employee, and colleague of the transplant team. Dr. Rajab and his laboratory team used a donor pancreas and in a nine hour process, retrieved 400,000 to 600,000 islets. The islets were transfused through a vein into the patients’ liver, where research has shown they respond best.

Today the patient is using about 80% less insulin and may be insulin-free in the future. About 65% of patients who receive a transplant no longer need insulin a year after the procedure.

The allo-islet transplant is highly specialized, and Ohio State is one of only a few prestigious centers certified to offer this type of transplant.

- **Pediatric transplant program.** As Director of Pediatric Transplantation, Dr. Rajab continues to enhance the transplant program at Nationwide Children’s Hospital. Seven kidney transplants were performed during the past year. In addition, utilizing the expertise gained over the many years of the Ohio State program, Dr. Rajab has implemented successful immunosuppressive regimens in his pediatric patients.

- **Kidney Transplant Program.** This year, a dedicated effort by the pre-transplant coordinators, the transplant surgeons, and the nephrologists resulted in 103 living donor kidney transplants. In addition, 93 deceased donor kidney transplants were performed.

- **Sequential Pancreas Transplant Program.** Continued efforts to focus on a sequential pancreas transplant program resulted in five of these transplants being performed this year, benefiting the large population of patients who, suffering from end-stage renal disease secondary to diabetes, have already undergone a successful kidney transplant. In addition, 22 combined kidney-pancreas transplants were performed this year, allowing the recipients to be cured of both diseases by a single transplant procedure.

- **Liver Transplant Program.** During the year, eighteen liver transplants were performed.

Clinical Statistics

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>1,711</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>3,243</td>
</tr>
<tr>
<td>Admissions</td>
<td>797</td>
</tr>
<tr>
<td>Patient Days</td>
<td>1,953</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>6.93</td>
</tr>
</tbody>
</table>
Educational Programs

- Two-year fellowship in solid organ transplantation. The program is accredited by the American Society of Transplant Surgeons.

- Rotations for general surgery residents during their intern and PGY-3 years.

- Rotation for surgery residents from the Mount Carmel Hospital System, Riverside Methodist Hospital, and Doctors Hospital. The rotation provides the clinical transplant experience required by the American Board of Surgery.

- Comprehensive Transplant Center Lecture Series. This bi-weekly lecture features broad-based clinical and basic science topics, presented by clinicians and researchers from Ohio State and other institutions.

- Biopsy Conference. The weekly conference reviews renal transplant biopsies and liver transplant biopsies, in conjunction with the pathologists and nephrology physicians.

- Divisional Morbidity and Mortality Conference.

- Observership Program. The one-month international visiting scholar appointment allows international medical students, graduates, and faculty who are not part of a formal training program at The Ohio State University Medical Center to observe faculty members, residents, or interns at Ohio State for a predetermined period of time. The goal is to introduce international visiting scholars to the fields of transplant surgery, patient care, research, and teaching.

Accomplishments in Education

- The 2011 American Transplant Congress (ATC), was held during May 1-5, 2011, in Philadelphia, Pennsylvania. This joint meeting between the American Society of Transplant Surgeons (ASTS) and the American Society of Transplantation (AST) is the foremost educational event in the field of basic and clinical transplantation. At this year’s meeting, as well as chairing plenary sessions and presenting orally, the combined efforts of the surgeons and Dr. Hadley resulted in twelve abstracts being accepted for the event.

- At this meeting, Dr. Henry progressed from President-elect to President of the ASTS. The Society, with more than 1,600 members, is dedicated to fostering and advancing the practice and science of transplantation for the benefit of patients and the community. Members are primarily board-certified surgeons with advanced training in transplantation and a record of publication in peer-reviewed journals and books.
Dr. Henry, who is President of the Vascular Access Society of the Americas (VASA), served as a faculty member at the Vascular Assess for Hemodialysis XIII Symposium, held May 20-21, 2011 in St Louis, Missouri. The program promoted excellence in the care of the patients who require hemodialysis – including placement of optimal access, maintenance and prolongation of access patency.

Dr. Henry, Dr. Andreoni and Dr. Bumgardner all created learning modules for the Organ Procurement Unit in the National Transplant Surgery Fellowship curriculum, developed by the American Society of Transplant Surgeons. The Curriculum defines the key areas of knowledge necessary for mastery of the field of transplantation surgery and when complete, this ASTS Academic Universe will contain over 200 learning modules. The Curriculum is available to all residents, fellows and transplant professionals who are members of this prestigious society.

Dr. Rachel Forbes joined the transplant team as the junior fellow in the ASTS-approved fellowship training program.

Dr. Anas Alzuhaili completed the two-year fellowship in abdominal organ transplantation, and accepted a trauma fellowship at Hurley Medical Center in Flint, Michigan.

The division continues to distribute a CD-ROM for resident education that is continually updated with cutting-edge educational materials on transplantation.

Progress continues on the video library for resident education. The division’s attending faculty members believe that a complete video library in solid organ transplantation will be a valuable teaching tool for those interested in this specialized field.

Dr. Ginny Bumgardner is a member of the admissions committees for the Medical Scientist Program (MSP), the M.D./Ph.D. dual degree program. She also serves on the MSP Steering Committee, which addresses MSP policies and administrative issues. Dr. Bumgardner is a faculty member for the Integrated Biomedical Sciences Graduate Program.

Dr. Bumgardner is the Associate Dean for Research Education & Graduate Studies in the College of Medicine. She participates as a member of the OSU Clinical and Translational Science (CCTS) Community of Research Education.

Dr. Bumgardner is the Director of the COM’s Masters of Medical Science Program.

Dr. Bumgardner is Co-Director, the Ohio State Howard Hughes Medical Institute MED into GRAD Scholars Program, which was established to augment the biomedical applications of traditional basic science research programs at the University.

Dr. Bumgardner is Co-Chair, OSU Clinical Center for Translational Science (CCTS) Research Education Resources and Special Programs committee. This committee has organized CCTS T1 workshop series designed to connect basic scientists and clinicians working in related areas with the intent of forging new research collaborations.
Community Outreach Programs

- **Liver Transplantation.** Dr. Ken Andreoni has instituted an outreach program, centering around lectures on the role of liver transplantation in end stage liver disease patients, especially those with hepatocellular cancer. This outreach effort is to increase awareness of Ohio State’s liver transplant program as a treatment modality for these patients. Dr. Andreoni’s lectures are helping to educate colleagues in the medical community to identify patients who are appropriate to be considered as candidates for transplantation. In addition, he is informing the referring physicians and patients on the processes involved in the national UNOS system for liver transplantation.

- **TransChart.** An Internet-based electronic medical record for post-transplant patients and healthcare professionals managing their care, TransChart facilitates better communication and patient outcomes. The use of Transchart by outlying nephrologists is increasing, as its browser-based application for reviewing medical records and charting directly into the record is invaluable in managing patient care.

Accomplishments in Community Outreach

Faculty members in the division continue to occupy positions of importance within the community of transplantation professionals. The faculty members and their positions are:

**Kenneth A. Andreoni, MD**
- Ex-Officio Chair, Kidney Committee, United Network for Organ Sharing (UNOS)
- Chair, Subcommittee on National Kidney Paired Donation, UNOS
- Co-Chair, Subcommittee on Liver-Kidney Allocation, UNOS
- Member, Public Policy Committee, American Society of Transplantation
- Medical Advisory Board, Lifeline of Ohio Organ Procurement Agency

**Ginny L. Bumgardner, MD, PhD**
- Chair, American Society of Transplant Surgeons (ASTS) AdHoc Workforce Committee, which surveyed transplant surgeons to gather information about their demographics, educational and professional background, clinical activity, and professional productivity. The results of the survey have been published in the American Journal of Transplantation.

- Chair, ASTS Awards Committee, American Society of Transplant Surgeons. This committee develops award guidelines and develops new awards for consideration of funding by the ASTS Council. The ASTS Awards committee reviews ASTS research applications annually and awards approximately $750,000 annually.

- Member, NIH NIAID AIRTC, an NIH study section which reviews training grants and individual research fellowship and career development awards.
Member, Graduate Research Education and Training (GREAT), a national organization which fosters the exchange of information and ideas among the faculty and administrative leaders of biomedical PhD, MD-PhD and postdoctoral programs.

Elizabeth Ann Davies, MD
• Member, Board of Directors, Organ Donor Research Consortium

Elmahdi A. Elkhammas, MD
• Chair, Executive Committee; Deputy Editor, Libyan Journal of Medicine
• Chair, Board of Directors, Ibnosina Medical Association
• Member, Executive Committee on Health Reform in Libya
• Board Member, African Center for the Prevention of Infectious Diseases, Tripoli, Libya

Gregg A. Hadley, PhD
• Member, Scientific Advisory Committee, Roche Organ Transplantation Research Foundation
• Associate Editor, American Journal of Transplantation
• Editorial Board, Transplantation

Mitchell L. Henry, MD
• President, American Society of Transplant Surgeons (ASTS)
• Member, Executive Committee, ASTS
• Chair, Program Specific Reports Task Force, ASTS
• Chair, Philanthropy Committee, ASTS
• Chair, Nominations Committee, ASTS
• Member, Reimbursement Committee, ASTS
• Member, American Journal of Transplantation Management Committee, ASTS
• Senior Advisor, Scientific Studies Committee, ASTS
• Member, Joint Council, American Society of Transplantation/American Society of Transplant Surgeons
• President, Vascular Access Society of the Americas
• Member, Advisory Committee on Organ Transplantation (ACOT), US Department of Health and Human Services
• Medical Director, Lifeline of Ohio Organ Procurement Organization

Ronald P. Pelletier, MD
• Assistant Medical Director, Lifeline of Ohio Organ Procurement Organization
• Member, Board of Directors, National Kidney Foundation. The board works to prevent kidney and urinary tract diseases, improve the health and well-being of individuals and families affected by these diseases, and increase the availability of all organs for transplantation.
Publications


Zimmerer JM, Pham TA, Sanders VM, Bumgardner GL. CD8+ T cells negatively regulate IL-4-dependent, IgG1dominant posttransplant alloantibody production. *Journal of Immunology*, 2010 Dec 15; 185(2): 7285-92.


Elkhammas EA, Singh N. Towards reforming health care services in developing countries: Taking Libya as an example. *Ibnosina Journal of Medicine and Biomedical Sciences* 2010, 2(4); 149-151.


Book Chapters


Visiting Professorships

Elkhammas, EA. Liver Transplantation Update. Visiting Professor, Central Tripoli Hospital, Tripoli, Libya, August 4, 2010.


Elkhammas, EA. Update on liver transplantation. Visiting Professor, University of Tunis, Tunisia, North Africa, November 30, 2010.

Henry, M. Biases of a Single Transplant Center. Visiting Professor, University of Nebraska Medical Center, Omaha, Nebraska, March 2, 2011.

Rajab A. Complicated Access Patients. Multidisciplinary Conference, Visiting Professor, IBN SINA Hospital, Kuwait, March 22, 2011.

Rajab A. Complications of Vascular Access. Visiting Professor, Kuwait, IBN SINA Hospital, Kuwait, March 22, 2011.

International Visiting Scholars (Observerships)

As Director of the International Physicians Observership Program, Dr. Elkhammas hosted five physicians, whose names, home countries, and dates of observing are shown below:

- **Mourad Senussi**
  - Libya
  - August – September, 2010
- **Yoosif Mohamed Abdalla**
  - Libya
  - September – October, 2010
- **Ala-Eddin Samir Sagar**
  - Libya
  - November – December, 2010
- **Omar Hussian**
  - Libya
- **Malak Tadres**
  - Egypt
  - June – July, 2011

International Presentations


**Henry ML.** Clinical Examination of AVFs and AVGs. 7th Congress of Vascular Access Society, Istanbul, Turkey, May 5, 2011.

**Henry ML.** The role of the surgeon in preventing vascular access complications. 7th Congress of Vascular Access Society, Istanbul, Turkey, May 6, 2011.


National Presentations


- Moderator, Live OR demonstration, May 20, 2011
- Preceptor, Hands-On Lab: animal lab, May 20, 2011
- Preceptor, Product demonstration, May 20, 2011
- Presenter, Forearm AVG Placement Technique, May 21, 2011


Rajab, A. Update on the OSU Islet Transplant Program, Collaborative Islet Transplant Registry (CITR) Meeting, Washington, DC, April 6-7, 2011.


Thomas Pham MD, Jason Zimmerer PhD, Leslie King, Robert Erbe, Virginia Sanders PhD, Ginny Bumgardner MD, PhD. IL-4 dependent, IgG1-dominant allogeneic antibody production is regulated by CD8+ T cells in a transplant model. Oral Presentation, 96th Annual Clinical Congress, Washington, DC, October 3-7, 2010.

Miscellaneous Presentations


Andreoni KA. Liver transplantation. Grand Rounds, Licking Memorial Hospital, Newark, Oh., January 10, 2011.

Andreoni KA. Kidney allocation. Comprehensive Transplant Center Staff Meeting, The Ohio State University, Columbus, Oh., April 4, 2011.

Bumgardner GL. Signature Program Translational Science Curriculum Organizational Meeting for “Immunology & Inflammation”, The Ohio State University, Columbus, Oh., August 30, 2010.
Bumgardner GL. NIH Career Development Grant funding opportunities for PhD and MD scientists (SP TS Curriculum, Immunology and Inflammation Module) The Ohio State University Medical Center, Columbus, Oh., December 3, 2010.

Bumgardner GL. First year pulmonary/critical care fellows introduction “Tentatively”. The Ohio State University Medical Center, Columbus, Oh., January 10, 2011.

Bumgardner GL. LiteracyStudies@OSU Winter Program-Literacy in Science, Session Chair, The Ohio State University, Humanities Institute, Columbus, Oh., February 11, 2011.

Bumgardner GL. 10th Annual OSUMC Research Day, judging & discussion. The Ohio State University, Columbus, Oh., April 7, 2011.

Bumgardner GL. Preparing your oral research presentations for DOS Annual Research Conference, Talk to prepare surgery residents for Annual DOS Research Conference. The Ohio State University, Columbus, Oh., April 28, 2011.

Bumgardner GL. Med into Grad Scholars Program, 2011 Annual Meeting, Speaker, The Ohio State University, Columbus, Oh., June 24, 2011.

Davies EA. Recovery of the multiorgan donor. Grand Rounds, Riverside Methodist Hospital, Department of Surgery, Columbus, Oh., August 17, 2010.

Davies EA. Transplantation. Program Advisory Committee Conference Day, General Surgery Residency, Doctor’s Hospital, Columbus, Oh., October 19, 2010.

Davies EA. Transplantation. Grand Rounds, Mt Carmel West Hospital, Columbus, Oh., March 10, 2011.

Davies EA. Pulsatile preservation. University of Toledo (HDS Wet Lab), Toledo, Oh., April 13, 2011.


Henry ML. Arteriovenous hemodialysis access. Grand Rounds, Division of Vascular Diseases & Surgery, The Ohio State University, Columbus, Oh., December 20, 2010.

Rajab A. Islet cell transplantation; The case for artificial pancreas. Comprehensive Transplant Center; Bench to Bedside Series, The Ohio State University, Columbus, Oh., January 26, 2011.
Rajab A. Islet transplant program. Health System Operating Council, The Ohio State University, Columbus, Oh., June 10, 2011.

Rajab A. Transplantation in the treatment of diabetes, Grand Rounds, Kettering Medical Center Internal Medicine, Kettering, Oh., November 5, 2010.

Rajab A. Transplantation in the treatment of diabetes, Grand Rounds, Licking Memorial Hospital, Newark, Oh., September 27, 2010.


Distinguished Visiting Professors

Randall Starling, MD, MPH
Vice Chairman, Department of Cardiovascular Medicine; Head, Section of Heart Failure and Cardiac Transplant, Cleveland Clinic, Cleveland, Ohio. Comprehensive Transplant Center Conference: “CTOC Heart Transplant Studies: Is There A Role For Induction Therapy?”, October 27, 2010.

John S. Najarian, MD
Professor of Surgery, Regents’ Professor Emeritus, Department of Surgery, University of Minnesota, Minneapolis, Minnesota. The Inaugural Ferguson Lecture, “Current Status of Pancreatic Transplantation”, November 18, 2010.

Ronald G. Gill, PhD
Professor of Surgery and Immunology, Scientific Director CCTCARE, Department of Surgery, University of Colorado, The Charles G. Orosz Memorial Lecture, “Strategies and Barriers to Achieving Allograft Tolerance”, May 11, 2011.
The Division of Vascular Diseases and Surgery has had a year of change. Dr. Mohan Das left our Division in November, 2010 to pursue opportunities in the VA system. Dr. Das had a masterful understanding of human anatomy that was greatly appreciated by the residents and students. His friendly demeanor and great sense of humor will be greatly missed. In March of this year Dr. William Smead retired after more than three decades of service to the Division and the College of Medicine. During his tenure the vascular fellowship was started and he trained 25 fellows. A master surgeon, Dr. Smead awed the surgical residents with his technical skills, high standards and thoughtful approach to patient care for decades. I think back to the time when I was a resident in this program and witnessed firsthand these characteristics, and noted from the onset how the residents gravitated to him. This spring the Division sponsored a symposium in his name that attracted past fellows from as far away as Greece, and a lectureship has been started in his name, as well. He will be impossible to replace and sorely missed.

Our clinical volumes remain high as we increase our complement of endovascular cases. We still do a sizeable proportion of open cases and have expanded our efforts into the care of patients with more complex aortic diseases. In conjunction with the Division of Cardiac Surgery we have proposed the development of an Aortic Center of Excellence (ACE) to enhance patient outcomes and satisfaction, and attract more patients to our system. This will also increase the volume of complex aortic cases for our fellows and make our program more attractive at the national level.

Dr. Starr continues to perform a high clinical volume and has been involved in several regional endovascular training programs. She added another clinical trial concerning low profile thoracic stent grafts to our Division. In June she gave a presentation at the annual meeting of the Society of Vascular Surgery.
Dr. Go also remains very clinically busy and began enrolling patients in his study looking at the role of stem cells in the treatment of patients with end-stage ischemia of the lower extremities. He was voted in as an at-large member of the Board of Managers in the Department this year.

Dr. Vermilion continues to manage our vein center and has expanded our ambulatory treatment of patients with varicose veins with a very high degree of patient satisfaction. He is increasing his involvement as director of utilization for the medical center and will have less clinical responsibility in the upcoming year.

Dr. Satiani directed another highly successful noninvasive vascular laboratory symposium and will be expanding it this year to include a clinical day as well entitled “Controversies in Vascular Disease.” He continues to expand his practice management seminar. This year the vascular lab at OSU East was placed under his direction. He was responsible for eight publications.

Dr. Cameron Rink continues to head our basic science research effort and during the past year he mentored Laura Peterson in the lab. She presented her work at the annual resident research day in June. He recently received the Professor T. K. Hunt Award as an outstanding early stage investigator.

Dr. Patrick Vaccaro will assume the role as Chief-of-Staff for University Hospital on July 1, 2011. Dr. Vaccaro was also named as the Luther M. Keith Professor of Surgery, a position previously held by Dr. Smead.

Dr. Maria Litzendorf completed her vascular fellowship this year and will be joining our staff on September 1. Her primary emphasis will be in expanding vascular care at OSU East. Also joining our staff will be Dr. Mounir Joseph Haurani who is completing his fellowship at Massachusetts General Hospital. Dr. Joseph Habib will be our second-year fellow, and Dr. Axel Thors from Good Samaritan Hospital in Cincinnati will be our first-year fellow.
Faculty

Patrick S. Vaccaro, MD
Luther M. Keith Professor of Surgery; Chief, Division of Vascular Diseases and Surgery; Program Director, Division of General Vascular Surgery; Chief of Staff Elect, University Hospital Health System
BS: Yale University, New Haven, Ct., 1971
MD: University of Cincinnati, Cincinnati, Oh., 1975
Specialty Training: General surgery residency, The Ohio State University, Columbus, Oh.; clinical fellowship in cardiothoracic surgery, Baylor College of Medicine, Houston, Tx.
Appointment: 2004
Specialty Interests: General vascular surgery, endovascular therapy
Research Interests: Endothelial cell biology, spinal cord ischemia, clinical trials

B. Mohan Das, MD
Assistant Professor of Clinical Surgery
BA: Madras Christian College, Madras, India, 1967
MD: Stanley Medical College, Madras, India, 1974
Specialty Training: General surgery residency and vascular surgery fellowship, Albert Einstein Medical Center, Philadelphia, Pa.; vascular surgery fellowship, Cleveland Clinic, Cleveland, Oh.
Appointment: 2004
Specialty Interests: General vascular surgery, carotid disease, lower extremity and dialysis access surgery
Research Interests: Clinical trials, ARK “TRINAM STUDY” for dialysis access

Michael R. Go, MD, MS
Assistant Professor of Surgery
BS: Duke University, Durham, N.C., 1996
MD: University of Cincinnati, Cincinnati, Oh., 2000
MS: The Ohio State University, Columbus, Oh., 2005
Specialty Training: General surgery residency, The Ohio State University, Columbus, Oh., 2006; Vascular and endovascular surgery fellowship, University of Pittsburgh Medical Center, Pittsburgh, Pa., 2008
Appointment: 2008
Specialty Interests: General vascular surgery, endovascular surgery
Research Interests: Endovascular surgery, stem cell therapy for limb ischemia
Cameron L. Rink, PhD
Assistant Professor of Surgery
BS: Hillsdale College, Hillsdale, Mi., 2000
PhD: The Ohio State University, Columbus, Oh., 2008
Post-doctoral Research, Laboratory of Molecular Medicine, The Ohio State University, 2009
Graduate Fellow, Department of Surgery, The Ohio State University, 2008
Graduate Research Assistant, Laboratory of Molecular Medicine, The Ohio State University, 2006
Graduate Fellow, Human Nutrition, The Ohio State University, 2005
Appointment: 2009
Research Interest: stroke injury, brain repair and oxygen as a key factor in stroke-mediated pathology

Bhagwan Satiani, MD, MBA
Professor of Clinical Surgery; Director of Non-Invasive Vascular Services
Undergraduate Degree: Shah Abdul Latif College, Mirpurkhas, Pakistan, 1964
MD: Dow Medical College, University of Karachi, Karachi, Pakistan, 1971
MBA: Franklin University, Columbus, Oh., 2002
Specialty Training: General surgery residency and trauma fellowship, Emory University, Atlanta, Ga.; vascular surgery fellowship, The Ohio State University Medical Center, Columbus, Oh.
Appointment: 2004
Specialty Interests: Noninvasive vascular diagnosis, business and legal aspects of medicine
Research Interests: Business education for physicians, workforce issues

William L. Smead, MD
Luther M. Keith Professor of Surgery
BA: Amherst College, Amherst, Ma., 1968
MD: Vanderbilt University, Nashville, Tn., 1972
Specialty Training: General surgery residency, Massachusetts General Hospital, Boston, Ma.; cardiothoracic surgery residency, Southampton Chest Hospital, Southampton, England
Appointment: 1978
Specialty Interests: General vascular surgery, aortic aneurysmal disease (thoracic and abdominal), renovascular hypertension, carotid disease, pediatric vascular problems
Research Interests: Claudication, carotid disease, thoracic outlet syndrome, aortic aneurysmal disease
Jean E. Starr, MD
Associate Professor of Clinical Surgery; Director of Endovascular Services; Associate Program Director
BS: The Ohio State University, Columbus, Oh., 1985
MD: The Ohio State University, Columbus, Oh., 1989
Specialty Training: General surgery residency and vascular surgery fellowship, Cleveland Clinic, Cleveland, Oh.
Appointment: 2004
Specialty Interests: Endovascular surgery, interventional procedures, carotid stents
Research Interests: Endovascular aortic aneurysm repair, carotid stenting

Blair D. Vermilion, MD
Associate Professor of Clinical Surgery; Associate Medical Director, Utilization Services
BS: Miami University, Oxford, Oh., 1968
MD: The Ohio State University, Columbus, Oh., 1972
Specialty Training: General surgery residency, Indiana University, Indianapolis, In.; vascular surgery fellowship, St. Anthony Hospital, Columbus, Oh.
Appointment: 2004
Specialty Interests: General vascular surgery, venous disease
Research Interests: Clinical trials

Faculty Departures

B. Mohan Das, M.D.
Assistant Professor of Clinical Surgery
November 16, 2010
V.A. Hospital

William L. Smead, M.D.
Luther M. Keith Professor of Surgery
March 4, 2011
Retired

Emeritus Faculty

William L. Smead, M.D.
Professor Emeritus of Surgery; Luther M. Keith Professor of Surgery
B.A.: Amherst College, Amherst, Mass., 1968
M.D.: Vanderbilt University, Nashville, Tenn., 1972
Resident Staff

**Joseph Habib, MD**
PGY-6
**BS:** West Virginia University, Morgantown, WV, 2001  
**MD:** West Virginia University School of Medicine, Morgantown, WV, 2005

**Maria Litzendorf, MD**
PGY-7
**BS:** College of William and Mary, Williamsburg, Va., 1996  
**MD:** Eastern Virginia Medical School, Norfolk, Va., 2003

Mission

The mission of the Division of Vascular Diseases & Surgery is consistent with that of The Ohio State University College of Medicine and Public Health, and includes the delivery of the highest quality of care to patients throughout Central Ohio suffering with peripheral vascular disease, the contribution to innovations in medicine through translational research and clinical outcomes studies, and the education of medical students and postgraduate trainees. Strategic planning has been a priority for us as we have focused on identifying how we can best fulfill our mission and truly create the future of medicine to improve people’s lives. A key element of that focus is our commitment to leadership in personalized health care as well as to help become a high-performance organization and workplace of choice.

Active Research Grants

**Agarwal AK, Das BM.** Parexel Intl Corp., ADVANTAGE Trial. A phase III, randomized, controlled, open label, multicenter study of the efficacy and safety of Trianan (EG004); an assessment of primary unassisted patency and survival of vascular access grafts in hemodialysis patients with end stage renal disease. November 24, 2009 – December 31, 2015. $6,542.


**Rink CL.** UL1RR025755 – Cerebrovascular recruitment and remodeling in acute ischemic stroke. CCTS Pilot Award. To identify molecular mechanisms of improved cerebrovascular collateral perfusion during acute ischemic stroke by the natural vitamin E analog alpha-tocotrienol. December 1, 2010 – November 30, 2011.


### Accomplishments in Research

- Division faculty members published 13 scholarly articles, book chapters and abstracts.
- IRB approval human trial investigating the use of autologous bone marrow derived hematopoietic stem cells with platelet rich plasma to stimulate angiogenesis for the treatment of critical limb ischemia. To our knowledge, this is the first study of its kind in the U.S. to attempt to treat patients who otherwise would need amputation using stem cells combined with platelet-rich plasma. Currently enrolling patients.
• Bolton Relay-initial enrollment is now complete for endovascular arm of the original study plan but we were invited to participate in the continued access portion of the Bolton Relay Trial (Protocol Version I) which will allow 50 additional subjects to be treated with the Relay Thoracic Stent Graft at up to 20 of the investigative sites participating in the trial.

• CVRx Rheos Pivotal – Enrollment is complete and we are now in the follow up phase of the trial. Subjects enrolled in the trial will be followed through FDA approval/disapproval of the device.

• We are currently the third top enroller in the Boston Scientific study called ORION: A Boston Scientific trial of the EPIC Nitinol Stent System in the Treatment of Atherosclerotic Lesions in Iliac Arteries. Closed to enrollment and in the follow up phase.

• The study, HERCULES- Herculink Elite Cobalt Chromium Renal Stent Trial to Demonstrate Efficacy and Safety of the RX Herculink Renal Stent System, sponsored by Abbott Vascular, is closed to enrollment and in the follow up phase of the trial for the next 3 years.

• CHOICE, sponsored by Abbott Vascular, is a carotid stent registry in which we continue to enroll patients. The enrollment for this registry is open ended.

• SAPPHIRE WW, sponsored by Cordis, is a carotid stent registry in which we also currently enroll patients.

• The following studies have been closed this past year: SONOMA – Boston Scientific; PIVOTAL – Medtronic and Cleveland Clinic Foundation.

Clinical Programs

• Comprehensive general vascular diseases and surgery service
• Endovascular surgery
• Laser surgery for varicose veins
• Arterial surgery clinic
• Venous surgery clinic
• Varicose vein clinic
• Dialysis clinic
• Outlying vascular clinics in Ashland, Bellefontaine, Fayette, Lancaster, London, Marysville, and Upper Sandusky, Ohio
Accomplishments in Clinical Care

• Offering of outpatient clinic varicose vein treatment instead of hospital-based treatment.

• Dr. Patrick S. Vaccaro is chief of staff of the University Hospital Health System, Columbus, Ohio, 2011-2013.

• Listing of Dr. William L. Smead by Best Doctors, Inc.

• Continuation of a high patient satisfaction score. As of February 2011, the overall assessment total was 94.2 percent.

• Use of the Guidant stent system in treatment of blockages in the carotid artery.

• Use of the Rheos Baroflex Hypertension therapy system for treatment to control resistant hypertension.

• Use of Cordis Precise RX and Emboshield carotid stent system.

• Use of autologous bone marrow derived hematopoietic stem cells with platelet rich plasma to stimulate angiogenesis for the treatment of critical limb ischemia.

• Use of the Bolton Relay Thoracic Endograft.

• Use of the TX2 Thoracic Endograft.

• Use of the EPIC Nitinol stent for treatment of iliac artery blockages.

Clinical Statistics

<table>
<thead>
<tr>
<th>OR Procedures</th>
<th>2,585</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient Visits</td>
<td>5,126</td>
</tr>
<tr>
<td>Admissions</td>
<td>711</td>
</tr>
<tr>
<td>Patient Days</td>
<td>3,008</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>4.40</td>
</tr>
</tbody>
</table>
Educational Programs

- Two-year fellowship in vascular diseases and surgery, accredited in 2006 by the Accreditation Council for Graduate Medical Education.

- Comprehensive rotation in vascular diseases and surgery for junior and senior general surgery residents.

- Sub-internship in vascular diseases and surgery.

- Vascular Grand Rounds approved for Category 1 CME clinical and basic science topics discussed (bi-weekly)

- Divisional Morbidity and Mortality Conference (biweekly), Pre-Operative Case Conference (monthly), Journal Club (monthly), Endovascular M&M (monthly), Angiogram Conference (monthly), Interesting Case Conference (monthly), Research Update Conference (quarterly), Vascular Lab Lecture (quarterly) and outside speaker conference (quarterly).

- Seminar in Practice Management. Dr. Bhagwan Satiani presents this monthly business seminar to the students and residents in the Department of Surgery.

Accomplishments in Education

- Completion of our two-year fellowship training program in vascular surgery by Dr. Maria Litzendorf.

- Dr. Joseph Habib joined the vascular surgery team as the junior fellow in our ACGME approved fellowship training program.


- Tammy Gregio, RN attended the Trauma in the Tropics Cruise and Educational conference, in St. Thomas, Virgin Islands, March 22, 2011.

- Cameron Rink, PhD was awarded with the Professor T.K. Hunt Award for outstanding Early Stage Investigator at the 4th Annual Translational to Clinical (T2C) Wound Care Conference here at The Ohio State University Medical Center; he was accepted as a member of the Oxygen Club of California; currently mentoring/training in research: Dr. Laura Peterson, Clinical Fellow/Resident and Masters of Medical Science trainee. Dr. Peterson is contributing to research on cerebrovascular collateral circulation during ischemic stroke; Harshah Amin, pre-medical student at Capital University with aspirations of joining the medical student class of 2012 at The Ohio State University Medical Center. Harshah has
been training in small animal behavior testing and sensorimotor functional analysis following ischemic stroke; and Dr. Zubin Shah, he received training in immunohistochemistry, cryosectioning, and high performance liquid chromatography. In addition Zubin was mentored in science writing and figure preparation for manuscripts.

- Dr. Joseph Habib attended the Gore TAG Thoracic Endoprosthesis course, in Cleveland, Oh., January 12, 2011.


- Dr. Laura Peterson was awarded the Society for Vascular Surgery Travel Scholarship and attended the Society for Vascular Surgery annual meeting, 2011 Fellow/General Surgery Resident/Medical Student Educational Program, in Chicago, Il., June 16 – 18, 2011;


- Dr. Jean Starr MD accepted preceptorship from College of Nursing at The Ohio State University for their Adult Nurse Practitioner program; invited on the first Talent Management and Development Academy (educational seminars and exercises); she also attended the Abbott Vascular Endovascular Medical Advisory Board meeting, in Chicago, Il., June 24 – 25, 2011; the Society for Vascular Surgery annual meeting, in Chicago, Il., June 16 – 18, 2011; the American College of Surgeons: Surgeons as Leaders from OR to Boardroom meeting, in Chicago, Il., June 5 – 8, 2011; the Medtronic Fellows Technology Exchange meeting, in Minneapolis, Mn., May 13 – 15, 2011; the Society for Vascular Surgery Women’s Leadership Retreat, in Chicago, Il., April 7 – 9, 2011; Abbott Vascular Endovascular Medical Advisory Board meeting, in San Francisco, Ca., November 4 – 6, 2010; the 26th Annual Cardiovascular conference held at St. Luke’s Regional Medical Center in Sioux City, Ia., on October 19, 2010 and the Society for Vascular Surgery Coding and Reimbursement for Vascular Surgeons workshop, in Chicago, Il., October 8, 2010.
• Dr. Patrick S. Vaccaro MD was appointed Luther M. Keith Professor in Surgery; attended the Association of Program Director in Vascular Surgery meeting, in Chicago, Il., March 25 – 26, 2011.


• The Division of Vascular Diseases and Surgery held a celebration entitled the William L. Smead, MD Symposium on May 21, 2011 honoring Dr. William Smead for 33 years of service at The Ohio State University Medical Center. Dr. William Smead trained 25 fellows during his leadership and has left an indelible impact on the vascular surgery program.

• The Department of Surgery created a William L. Smead, MD Lectureship fund honoring Dr. Smead.

Community Outreach Programs

Presentation of regular lectures on vascular diseases to The Ohio State University Medical Center, College of Medicine, Department of Surgery, hospital board meeting, medical staff meetings, grand rounds, M&M, medical society meetings, and the division’s vascular symposium.

Accomplishments in Community Outreach

• Dr. Bhagwan Satiani was elected President of South Asian American Vascular Society (SAAVS); co-director, planner and moderator of the 3rd Annual Non-Invasive Vascular Symposium, at The Ohio State University Medical Center, Columbus, Oh., October 16, 2010;

• Cameron Rink, Phd invited peer reviewer for Journal of Neuroimmunology, review editor for Frontiers in Oxidant Physiology, invited peer review of Journal of Physiological Genomics. Member of the College of Medicine Graduate Studies Committee (Interdisciplinary Doctoral Program in Human Nutrition). Grant review for the Davis Bremer Award and the Center for Clinical and Translational Science, Novel Clinical and Translational Methodologies Pilot Program all here at The Ohio State University Medical Center. Judging at the 8th Annual Russell Klein Research Symposium, 16 Annual Denman Undergraduate Research Forum, 10th Annual OSUMC Trainee Research Day, 4th Annual Translational to Clinical (T2C) Wound Care Conference all here at The Ohio State University Medical Center.

• Dr. Jean Starr participated in Columbus Torah Academy Senior Internship (mentoring); mentor at the Society for Vascular Surgery Annual Meeting, General Surgery Surgical Skills Competition on June 17, 2011 in Chicago, Il.; member of the 2011-2012 Clinical Resource Utilization Committee, The Ohio State University Health System.
• Dr. Patrick Vaccaro member of the Practitioner Evaluation Committee 2011-2012 for The Ohio State University Medical Center Health System; conducted fellowship interviews for the American College of Surgeons Ohio District #3 Committee on Applicants, April 16, 2011.

Publications


Rink C, Gnyawali S, Peterson L, Khanna S. Oxygen-inducible glutamate oxaloacetate transaminase as protective switch transforming neurotoxic glutamate to metabolic fuel during acute ischemic stroke. Antioxid Redox Signal. 2011;14:1777-1785.


Rink C, Khanna S. Significance of brain tissue oxygenation and the arachidonic acid cascade in stroke. Antioxid Redox Signal. 2011;14:1889-1903.


Satiani B. Impact of The Patient Protection and Affordable Care Act on vascular imaging. Annals of Vascular Surgery. (Accepted for publication)


Satiani B, Williams TE, Ellison EC. The impact of employment of part time surgeons on the expected surgeon shortage. Journal of the American College of Surgeons. (Accepted for publication)


Abstracts

Book Chapters


Interdisciplinary Lectures

Scott Maffett, M.D., Assistant Professor, The Ohio State University Medical Center, spoke at the Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., topic “Pre-Operative cardiac work-up, cardiac complications after surgery” on June 6, 2011.

Henry Mitchell, M.D., Division Director, Transplant Surgery; Deputy Director for Surgical Services; Associate Medical Director, Lifeline of Ohio Organ Procurement Agency, The Ohio State University Medical Center, spoke at the Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., topic “Arteriovenous Hemodialysis Access” on December 20, 2010.

Andrew Slivka, M.D., Professor of Neurology; Director, Stroke Division, The Ohio State University Medical Center, spoke at the Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., topic “Update on Interventional Treatment of Carotid Artery Disease” on September 27, 2010.

International Presentations


National Presentations

Heigel M, Khanna S, Roy S, Khan M, Kuppusamy P, Sen CK, Rink C. Characterization of the therapeutic potential for supplemental oxygen therapy in acute ischemic stroke. The Ohio State University Medical Center, 4th Annual Translational to Clinical (T2C) Wound Care Conference, Columbus, Oh., April 8, 2011.

Itani K, Satiani B. The International Medical Graduate General Surgeon and how best to encourage their contribution to answering the public need for General Surgeons. General Surgery Think Tank meeting sponsored by the American Surgical Association Foundation, Chicago, Il., October 12-13, 2010.


Peterson L, Heigel M, Rink C. Clot size controlled model of limb deep vein thrombosis. The Ohio State University Medical Center, 4th Annual Translational to Clinical (T2C) Wound Care Conference, Columbus, Oh., April 8, 2011.

Rink C, Christoforidis G, Peterson L, Khanna S, Roy S, Sen CK. Tocotrienol vitamin E improves collateral circulation during focal cerebral ischemia attenuating stroke injury. The Ohio State University Medical Center, 4th Annual Translational to Clinical (T2C) Wound Care Conference, Columbus, Oh., April 8, 2011.

Rink C, Roy S, Peterson L, Sen CK, Khanna S. The Janus face of glutamate in the brain: the glucose- and oxygen- dependent role reversal from neurotoxin to neuroprotectant. The Ohio State University Medical Center, 4th Annual Translational to Clinical (T2C) Wound Care Conference, Columbus, Oh., April 8, 2011.

Rink C. a-Tocotrienol: The Natural Vitamin E Against Stroke. 102nd American Oil Chemists’ Society meeting, Cincinnati, Oh., May 3, 2011.


Satiani B. Can we utilize International Medical; Graduates to address the upcoming physician shortage? Presented at the Second Annual Meeting of the South Asian American Vascular Society Meeting, Chicago, Il., June 16, 2011.

Satiani B, Williams TE, Ellison CE. A comparison of future recruitment needs in rural and urban hospitals: the rural imperative. 68th Annual Central Surgical Association meeting, Detroit, Mi., March 17, 2011.

Starr JE. Starting a TEVAR Practice, Required Skills, Interdisciplinary Teams and Case Presentation: Device Delivery Special Considerations at the Midwestern Vascular Surgical Society Advanced TEVAR course, Madison Wi., December 2, 2010.


Local Presentations

Rink C. Preclinical Models of Acute Ischemic Stroke. The Ohio State University Regenerative Medicine and Cell Based Therapies Retreat, Perrysville, Oh., September 17, 2010.


Starr JE. Updates on Management of Thoracic Abdominal Aortic Disease. 6th Annual Cardiology Update Conference, Sioux City, Ia., October 20, 2010.

Miscellaneous Presentations

Das BM. Venous Access. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., August 2, 2010.
Das BM. Moderator – The Ohio State University Medical Center, Department of Surgery Professor Rounds, Columbus, Oh., October 14, 2010.

Go MR. Thoracic Endografts: Update for Sonographers. The Ohio State University Medical Center, 3rd Non-Invasive Vascular Symposium, Columbus, Oh., October 16, 2010.

Go MR. Aneurysmal Disease of the Abdominal Aorta. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., October 25, 2010.

Go MR. Moderator – The Ohio State University Medical Center, Department of Surgery Professor Rounds, Columbus, Oh., December 9, 2010.

Go MR. Arterial Disease. The Ohio State University Medical Center, Department of Surgery, Basic Science Lecture/Gen Surg Conference, Columbus, Oh., February 17, 2011.

Go MR. Peripheral Vascular Disease. The Ohio State University Medical Center, Department of Surgery, Professor Conference, Columbus, Oh., March 10, 2011.

Go MR. Anastomosis – Vascular. The Ohio State University Medical Center, Department of Surgery, Surgical Skills Lab, Columbus, Oh., March 15, 2011.

Go MR. Modulation of angiogenesis for the treatment of peripheral vascular disease. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

Habib J. Basic Mechanisms in Mesenteric Ischemia. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., September 13, 2010.

Habib J. Palmar Arch Testing. The Ohio State University Medical Center, 3rd Non-Invasive Vascular Symposium, Columbus, Oh., October 16, 2010.

Habib J. Embryology of Vascular System. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., June 20, 2011.

Litzendorf ME. Skeletal Muscle Ischemia and Reperfusion: Mechanisms of Injury and Intervention. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., October 11, 2010.

Litzendorf ME. Neuropathic and biomechanical Etiology of Foot Ulceration in Diabetics. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., February 7, 2011.

Litzendorf ME. Visceral Ischemia. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., May 16, 2011.
Litzendorf ME. Thrombolytic RX. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

Rink C. The Janus Face of Oxygen Therapy in Acute Ischemic Stroke. The Ohio State University Interdisciplinary Program in Human Nutrition Seminar Series, Columbus, Oh., November 11, 2010.

Rink C. Tocotrienol vitamin E improves collateral circulation during focal ischemia attenuating stroke injury. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

Satiani B. Interesting cases: Test your knowledge. The Ohio State University Medical Center, 3rd Non-Invasive Vascular Symposium, Columbus, Oh., October 16, 2010.

Satiani B. Venous Disease. The Ohio State University Medical Center, Department of Surgery, Professor Conference/General Surgery Resident Conference, Columbus, Oh., February 10, 2011.

Satiani B. Where have we been and where are we going? An overview of physician alignment trends. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

Satiani BS. Peripheral Arterial Duplex Examination. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., May 23, 2011.

Smead WL. Vascular Grafts. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., August 23, 2010.

Smead WL. Hemodynamic Basis of Portal Hypertension. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., January 3, 2011.

Starr JE. Hemostasis, Surgical Bleeding and Transfusion. The Ohio State University Medical Center, Basic Science Lecture/General Surgery Resident Conference, Columbus, Oh., August 5, 2010.

Starr JE. Basic Science of Renovascular Hypertension. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., August 9, 2010.

Starr JE. Intravascular Ultrasound. The Ohio State University Medical Center, 3rd Non-Invasive Vascular Symposium, Columbus, Oh., October 16, 2010.

Starr JE. Cerebral Blood Flow. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., December 6, 2010.

Starr JE. Current Management of Carotid Stenosis. The Ohio State University Medical Center, Ross Heart Hospital 5th Floor inservice, Columbus, Oh., January 5, 2011.
Starr JE. Pre-Med introduction to a career as a surgeon. The Ohio State University Medical Center, Pre-Med Club, Columbus, Oh., January 31, 2011.

Starr JE. Carotid Artery Disease. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., May 2, 2011.

Starr JE. What’s new at the ‘U’: Endovascular update. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

Vaccaro PS. Arteriovenous Malformation and Arteriovenous Fistula. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., July 12, 2010.

Vaccaro PS. Moderator – The Ohio State University Medical Center, Department of Surgery Professor Rounds, Columbus, Oh., August 12, 2010.

Vaccaro PS. Medical Staff Administration. The Ohio State University Medical Center, New Physician Orientation, Columbus, Oh., September 9, 2010.

Vaccaro PS. Portal Hypertension. The Ohio State University Medical Center, Department of Surgery/Professor Conference, General Surgery Resident Conference, Columbus, Oh., September 23, 2010.

Vaccaro PS. Abdominal Cavity. The Ohio State University Medical Center, First Year Medical Student Anatomy Dissections, Columbus, Oh., September 27, 2010.

Vaccaro PS. Clinical Leadership Council For Quality and Patient Safety Meeting. The Ohio State University Medical Center, Columbus, Oh., September 29, 2010.

Vaccaro PS. Spinal Cord Ischemia Associated with High Aortic Clamping: Methods of Protection. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., November 22, 2010.

Vaccaro PS. Principles of Amputation Surgery. The Ohio State University Medical Center, Department of PM&R Prosthetics and Orthotics Lecture, Columbus, Oh., December 29, 2010.

Vaccaro PS. Aorta and Great Vessels. The Ohio State University Medical Center, Department of Surgery, Professor Conference/General Surgery Conference, Columbus, Oh., February 24, 2011.

Vaccaro PS. Moderator - The Ohio State University Medical Center, 2011 Department of Surgery 16th Annual Surgical Research Conference, Columbus, Oh., June 10, 2011.

Vermilion BD. Chronic Venous Disease and Pulmonary Embolism. The Ohio State University Medical Center, MedNet 21, CME Webcast, Columbus, Oh., October 25, 2010.
Vermilion BD. Arterial and Vascular Graft Infection. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Oh., November 8, 2010.

Vermilion BD. Moderator – The Ohio State University Medical Center, Department of Surgery, Professor Rounds, Columbus, Oh., May 19, 2011.

Distinguished Visitors

Larry Carey, MD, Emeritus Professor of Surgery; Associate Chief of Staff for Education at University of South Florida. How it started and how it went. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

William Finkelmeier, MD, National Director, Vein Solutions. Smeadism and their impact on my career. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

George Geroulakos, MD, FRCS, PhD, Vascular Surgeon, Charing Cross Hospital; President of the Vascular Section of The Royal Society of Medicine in London. Randomized controlled trial of ultrasound guided from sclerotherapy combined with sapheno-femoral ligation compared to surgical treatment of varicose veins; five year results. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

John Hallett, MD, Clinical Professor of Surgery; Medical Director, St. Francis Heart and Vascular Center, Medical University of South Carolina. Creating heart and vascular centers that work: negotiating troubled waters. The Ohio State University Medical Center, William L. Smead, MD Symposium, Columbus, Oh., May 21, 2011.

Steven Leers, MD, Assistant Professor of Surgery, University of Pittsburgh Medical Center. Duplex Ultrasound after EVAR and Venous Reflux and CVI Testing. The Ohio State University Medical Center, 3rd Non-Invasive Vascular Symposium, Columbus, Oh., October 16, 2010.

Larry Raber, RDMS, RVT, RT. Cleveland Clinic Hospital. Transcranial Doppler. The Ohio State University Medical Center, 3rd Non-Invasive Vascular Symposium, Columbus, Oh., October 16, 2010.


Robert Scissons, RVT. Jobst Vascular Center. Evaluation of the tortuous ICA and The arterial Doppler waveform confusion. The Ohio State University Medical Center, 3rd Non-Invasive Vascular Symposium, Columbus, Oh., October 16, 2010.
### Administrative Staff

<table>
<thead>
<tr>
<th>Position</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Administrator</td>
<td>(614) 293-8631</td>
</tr>
<tr>
<td>Administrative Assistant to the Chairman</td>
<td>(614) 293-9722</td>
</tr>
<tr>
<td>Executive Assistant to the Vice Dean</td>
<td>(614) 293-8701</td>
</tr>
<tr>
<td>Fiscal Manager</td>
<td>(614) 293-8699</td>
</tr>
<tr>
<td>Human Resources Administrator</td>
<td>(614) 293-5993</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Position</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Systems Director</td>
<td>(614) 293-2288</td>
</tr>
<tr>
<td>Publications Editor</td>
<td>(614) 293-8852</td>
</tr>
<tr>
<td>Research Coordinator</td>
<td>(614) 293-8978</td>
</tr>
<tr>
<td>Resident Coordinator</td>
<td>(614) 293-8704</td>
</tr>
<tr>
<td>Student Coordinator</td>
<td>(614) 293-8703</td>
</tr>
</tbody>
</table>

### Division Coordinators

<table>
<thead>
<tr>
<th>Division</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiothoracic Surgery</td>
<td>(614) 293-7727</td>
</tr>
<tr>
<td>Critical Care, Trauma, and Burn</td>
<td>(614) 293-9488</td>
</tr>
<tr>
<td>General and Gastrointestinal Surgery</td>
<td>(614) 293-8229</td>
</tr>
<tr>
<td>Pediatric Surgery</td>
<td>(614) 722-3911</td>
</tr>
<tr>
<td>Plastic Surgery</td>
<td>(614) 293-9030</td>
</tr>
<tr>
<td>Surgical Oncology</td>
<td>(614) 293-0968</td>
</tr>
<tr>
<td>Transplantation</td>
<td>(614) 293-4380</td>
</tr>
<tr>
<td>Vascular Diseases and Surgery</td>
<td>(614) 293-8536</td>
</tr>
</tbody>
</table>