Department of Surgery
2009 Annual Report

July 1, 2008 – June 30, 2009

Department of Surgery
The Ohio State University Medical Center
Columbus, Ohio
Department of Surgery
395 West 12th Avenue
Columbus, OH 43210-1267

Cover photograph by Jim Brown

recycled paper
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Overview

E. Christopher Ellison, M.D.
Chairman, Department of Surgery

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 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, 2008 through June 30, 2009.

In September 2008, we lost one of our dearest and most successful faculty members, Dr. Michael J. Walker. To honor him, we established the Michael J. Walker Teaching Award and the Michael J. Walker Lectureship in Surgical Oncology.

Organization
The Department of Surgery comprises eight specialty divisions: Cardiothoracic Surgery; Critical Care, Trauma, and Burn; General and Gastrointestinal Surgery; Pediatric Surgery; Plastic Surgery; Surgical Oncology; 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.

Faculty
Recruitment efforts brought 12 new faculty members to the department this year. The Center for Minimally Invasive Surgery made three one-year clinical faculty appointments. The Division of Cardiothoracic Surgery, the Division of Care, Trauma, and Burn, and the Division of Surgical Oncology each added two new faculty members. The Division of General and Gastrointestinal Surgery, the Division of Plastic Surgery, and the Division of Vascular Diseases and Surgery each appointed one new faculty member. A complete list of this year’s faculty appointments begins on page 7 of this report.
Clinical Care
The Department of Surgery provides all aspects of major surgical care. This year, the department performed 26,735 surgical procedures and received 80,697 outpatient visits. Outpatient services are available at numerous sites, including:

- Aesthetic Surgery at Easton Town Center, 2 Easton Oval, Suite 545.
- 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 Dublin, 4019 Dublin-Granville 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.
- Plastic Surgery at Knightsbridge, 4830 Knightsbridge Boulevard, Suite G.
- Plastic Surgery at the OSU Eye and Ear Institute, 915 Olentangy River Road, Suite 2100.
- The Richard M. Ross Heart Hospital, 452 West 10th Avenue.
- University Hospital East, 1492 East Broad Street.

Research
Research efforts continue to focus on three major areas: wound healing, vascular biology and transplantation, and tumor biology.

This year, new research funding awarded through The Ohio State University Research Foundation to principal investigators in the Department of Surgery totaled more than $4.1 million. New federal funding was more than $2.4 million, or 59 percent of total funding. New non-federal funding was more than $1.6 million, or 41 percent of the total.

Education
Twenty-four residents and fellows completed their training programs this year. Nine went on to community practice, eight to further training, and five to academic appointments. Two residents had not yet decided on a position at the time of graduation. One fellow is scheduled to complete his program in October 2009.
## Department Statistics

<table>
<thead>
<tr>
<th>Category</th>
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<td>Full-Time Faculty</td>
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<tr>
<td>Residents and Fellows</td>
<td>82</td>
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<tr>
<td>ACGME-Accredited Surgical Residencies</td>
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<tr>
<td>ACGME-Approved Specialty Certification Programs</td>
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<tr>
<td>Approved Specialty Fellowships</td>
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<tr>
<td>OR Procedures</td>
<td>26,735</td>
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<tr>
<td>Outpatient Visits</td>
<td>80,697</td>
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<tr>
<td>Admissions</td>
<td>23,239</td>
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<tr>
<td>Patient Days</td>
<td>69,985</td>
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<tr>
<td>Average Length of Stay (Days)</td>
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In Memoriam
Michael J. Walker, M.D., 1946–2008

The Department of Surgery expresses its sorrow on the death, on September 1, 2008, of friend and colleague Michael J. Walker, M.D., associate professor of surgery in the Division of Surgical Oncology.

Dr. Michael J. Walker was an expert in all areas of surgical oncology, with a primary patient base in melanoma, breast, and soft tissue sarcoma. A tenured associate professor in the Department of Surgery and the Department of Pathology, he was an attending physician at The Ohio State University Medical Center and the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. From 2001 to 2003, he was acting chief of staff at the James.

Dr. Walker received a bachelor of science degree at the University of Toronto and his medical degree at the State University of New York at Syracuse, both on scholarship. He then completed an internship at Rhode Island Hospital, in Providence. For two years, he served his country as a commissioned officer in the U.S. Public Health Service–Indian Health Service. He completed his surgical training at the University of Illinois Medical Center at Chicago, with a general surgery residency, a research fellowship, and a fellowship in the Department of Surgical Oncology.

In 1982, Dr. Walker joined the faculty of the Department of Surgical Oncology at the University of Illinois, where he rose to the level of associate professor. He remained there until 1989, when he joined the faculty at Ohio State. A skilled surgeon, Dr. Walker was one of the first to use sentinel node biopsy in the diagnosis of cancer. He was a highly regarded researcher who presented nationally and internationally, a well-published author, and a contributor to numerous clinical trials. He was also an active member of professional associations, societies, and committees. Dr. Walker received many honors and awards throughout his career. A well-respected teacher and mentor of medical students, residents, and fellows, he repeatedly received the Department of Surgery’s Faculty Teaching Award, for dedication to surgical education and excellence in teaching.

To honor Dr. Walker, the Department of Surgery established the Michael J. Walker Teaching Award and the Michael J. Walker Lectureship in Surgical Oncology.
Department Administration

E. Christopher Ellison, M.D.
Chairman

Robert L. Ruberg, M.D.
Senior Vice Chairman for Administrative Affairs

W. Scott Melvin, M.D.
Vice Chairman for Academic Affairs

Mark W. Arnold, M.D.
Vice Chairman for Surgical Education

Chandan K. Sen, Ph.D.
Vice Chairman for Research

Steven M. Steinberg, M.D.
Vice Chairman for Clinical Affairs

Jerome A. Johnson, Ph.D.
Administrator

Raymond M. Manley
Executive Director, OSU Surgery, LLC
Administrative Staff

Mark Dickman
Director, Surgery Information Systems

Elizabeth Hanson
Resident Coordinator

Megan Hesson
Systems Analyst, Surgery Information Systems

K. Christopher Kaiser
Budget Analyst

Anna Patterson
Student Coordinator

Darrell Peters
Publications Editor

Heidi Pieper
Program Assistant in Surgical Education

Connie Roberson
Fiscal Manager

Donna Sampsill
Administrative Assistant to the Chairman

Roxanne Shull
Research Coordinator

Renee Troyer
Executive Assistant to the Vice Dean

Maxine Vargas
Human Resources Administrator
Division Chiefs

**Donna A. Caniano, M.D.**
Pediatric Surgery

**William B. Farrar, M.D.**
Surgical Oncology

**Mitchell L. Henry, M.D.**
Transplantation

**W. Scott Melvin, M.D.**
General and Gastrointestinal Surgery

**Michael J. Miller, M.D.**
Plastic Surgery

**Steven M. Steinberg, M.D.**
Critical Care, Trauma, and Burn

**Benjamin C. Sun, M.D.**
Cardiothoracic Surgery

**Patrick S. Vaccaro, M.D.**
Vascular Diseases and Surgery
Faculty Appointments

**Joel B. Anderson, M.D.**
Clinical Assistant Professor of Surgery, Center for Minimally Invasive Surgery  
B.S.: Grand Valley State University, Allendale, Mich., 1999  
M.D.: Michigan State University, East Lansing, Mich., 2003  
Appointment: 2008  
Specialty Interests: Minimally invasive surgery  
Research Interests: Minimally invasive surgery  
Previous Appointment: Resident in general surgery, Michigan State University, East Lansing, Mich.

**James H. Boehmeler, IV, M.D.**
Assistant Professor of Surgery, Division of Plastic Surgery  
B.A.: University of Chicago, Chicago, Ill., 1997  
M.D.: University of Rochester, Rochester, N.Y., 2001  
Specialty Training: Plastic surgery, Georgetown University, Washington, D.C., 2007; fellowship in reconstructive microsurgery, University of Texas M.D. Anderson Cancer Center, Houston, Texas, 2008  
Appointment: 2008  
Specialty Interests: Oncologic reconstructive surgery  
Previous Appointment: Fellow in plastic surgery, University of Texas M.D. Anderson Cancer Center, Houston, Texas

**Sebastian V. Demyttenaere, M.D.**
Clinical Assistant Professor of Surgery, Center for Minimally Invasive Surgery  
M.D.: McGill University, Montreal, Quebec, Canada, 2002  
M.S.: McGill University, Montreal, Quebec, Canada, 2006  
Specialty Training: McGill University Health Centre, Montreal, Quebec, Canada, 2002–2008  
Appointment: 2008  
Specialty Interests: Minimally invasive surgery  
Research Interests: Minimally invasive surgery  
Previous Appointment: Resident in general surgery, McGill University Health Centre, Montreal, Quebec, Canada
OVERVIEW

Michael R. Go, M.D.
Assistant Professor of Surgery, Division of Vascular Diseases and Surgery
B.S.: Duke University, Durham, N.C., 1996
M.D.: University of Cincinnati, Cincinnati, Ohio, 2000
M.S.: The Ohio State University, Columbus, Ohio, 2005
Specialty Training: General surgery internship and residency, The Ohio State University, Columbus, Ohio, 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
Previous Appointment: Fellow in vascular and endovascular surgery, University of Pittsburgh Medical Center, Pittsburgh, Pa.

Syed G. Husain, M.D.
Assistant Professor of Clinical Surgery, Division of General and Gastrointestinal Surgery
M.B.B.S.: Dow Medical College, Karachi, Pakistan
Specialty Training: Residency in general surgery, Harlem Hospital Center, New York, N.Y.; fellowship in clinical research, University of Illinois at Chicago; fellowship in minimally invasive surgery, University of Rochester, Rochester, N.Y.; fellowship in colorectal surgery, Brown University, Providence, R.I.
Appointment: 2008
Specialty Interests: Minimally invasive colorectal surgery
Research Interests: Natural orifice translumenal endoscopic surgery (NOTES)
Previous Appointment: Fellow in colorectal surgery, Brown University, Providence, R.I.

William G. Kraybill, M.D.
Professor of Surgery, Division of Surgical Oncology
B.A.: Earlham College, Richmond, Ind., 1965
M.D.: University of Cincinnati, Cincinnati, Ohio, 1969
Specialty Training: University of Oregon Health Sciences Center, Portland, Ore.
Appointed: 2008
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
Previous Appointment: Professor and vice chairman of surgery, University of Missouri, Kansas City, Mo.
Louis B. Louis, IV, M.D.
Assistant Professor of Surgery, Division of Cardiothoracic Surgery
B.A.: Virginia Military Institute, Lexington, Va., 1994
M.D.: University of Miami, Miami, Fla., 1998
Specialty Training: The Ohio State University Medical Center, Columbus, Ohio
Appointment: 2008
Specialty Interests: Adult cardiac surgery, surgery for heart failure, mechanical circulatory support, cardiac transplantation, cardiovascular surgical critical care
Previous Appointment: Fellow in mechanical circulatory support, The Ohio State University Medical Center, Columbus, Ohio

Carl R. Schmidt, M.D., M.S.C.I.
Assistant Professor of Clinical Surgery, Division of Surgical Oncology
B.S.: University of Michigan, Ann Arbor, Mich., 1995
M.D.: University of Michigan, Ann Arbor, Mich., 1999
Specialty Training: General surgery residency, Vanderbilt University Medical Center, Nashville, Tenn.; surgical oncology fellowship, Memorial Sloan-Kettering Cancer Center, New York, N.Y.
Appointment: 2008
Specialty Interests: Gastrointestinal and hepatobiliary malignancies
Research Interests: Novel therapeutic strategies and imaging modalities for metastatic liver tumors
Previous Appointment: Fellow in surgical oncology, Memorial Sloan-Kettering Cancer Center, New York, N.Y.

Stanislaw P. Stawicki, M.D.
Assistant Professor of Surgery, Division of Critical Care, Trauma, and Burn
B.A.: University of Louisville, Louisville, Ky., 1997
M.D.: 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
Previous Appointment: Fellow in trauma and surgical critical care, Hospital of the University of Pennsylvania, Philadelphia, Pa.
Paul A. Vesco, M.D.
Assistant Professor of Surgery, Division of Cardiothoracic Surgery
M.D.: University of Kentucky, Lexington, Ky., 1997
Specialty Training: The Ohio State University Medical Center, Columbus, Ohio
Appointment: 2008
Specialty Interests: Minimally invasive robotic cardiac and thoracic surgery
Previous Appointment: Fellow in cardiothoracic surgery, The Ohio State University Medical Center, Columbus, Ohio

Melissa L. Whitmill, M.D.
Assistant Professor of Clinical Surgery, Division of Critical Care, Trauma, and Burn
B.S.: Columbia Union College, Takoma Park, Md., 1995
M.D.: Wright State University, Dayton, Ohio, 2001
Specialty Training: Residency in general surgery, Wright State University, Dayton, Ohio; fellowship in surgical critical care, Henry Ford Hospital, Detroit, Mich.
Appointment: 2008
Specialty Interests: Trauma, surgical critical care, emergency surgery
Previous Appointment: Fellow in surgical critical care, Henry Ford Hospital, Detroit, Mich.

Brian J. Winkleman, M.D.
Clinical Assistant Professor of Surgery, Center for Minimally Invasive Surgery
B.S.: Indiana University, Bloomington, Ind., 1999
M.D.: Indiana University, Indianapolis, Ind., 2003
Specialty Training: The Ohio State University Medical Center, Columbus, Ohio
Appointment: 2008
Specialty Interests: Minimally invasive surgery
Research Interests: Minimally invasive surgery, duodenal ulcer disease, colorectal cancer screening
Previous Appointment: Resident in general surgery, The Ohio State University Medical Center, Columbus, Ohio
New Research Funding

During fiscal year 2008–2009, new research funding awarded through The Ohio State University Research Foundation to principal investigators in the Department of Surgery totaled more than $4.1 million.

New federal funding was more than $2.4 million, or 59 percent of total funding. New non-federal funding was more than $1.6 million, or 41 percent of the total.

<table>
<thead>
<tr>
<th>Sources</th>
<th>Amounts</th>
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<td>Federal</td>
<td>$2,448,967</td>
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<tr>
<td>Industry</td>
<td>$890,874</td>
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<tr>
<td>Other Non-Federal</td>
<td>$791,833</td>
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<tr>
<td><strong>GRAND TOTAL</strong></td>
<td><strong>$4,131,674</strong></td>
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</table>

Sources of New Research Funding

- Federal: 59%
- Industry: 22%
- Other Non-Federal: 19%
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, 82 residents and fellows participated in the department’s 10 residency programs, which consist of four residencies accredited by the Accreditation Council for Graduate Medical Education (ACGME), three ACGME-approved specialty certification programs, and three approved specialty fellowships. These programs provide training in cardiothoracic surgery, general surgery, minimally invasive surgery, pediatric surgery, plastic 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. Ohio State’s 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-four residents and fellows completed their training programs this year. Nine went on to community practice, eight to further training, and five to academic appointments. Two residents had not yet decided on a position at the time of graduation. One fellow is scheduled to complete his program in October 2009. The residents and fellows were:

Jennifer H. Aldrink, M.D.
Dr. Aldrink completed the residency in pediatric surgery and began an appointment as assistant professor of clinical surgery in Ohio State’s Division of Pediatric Surgery, located at Nationwide Children’s Hospital.

Joel B. Anderson, M.D.
Dr. Anderson completed the fellowship in advanced therapeutic endoscopy and gastrointestinal surgery and joined the attending staff at Marymount Hospital and Hillcrest Hospital, Cleveland Clinic affiliates, in Cleveland, Ohio.

Lloyd G. Brown, M.D.
Dr. Brown completed the residency in general surgery and began a fellowship in critical care at the University of Michigan, in Ann Arbor, Mich.

Andrew O. Crockett, M.D.
Dr. Crockett completed the fellowship in surgical critical care and is continuing the residency in general surgery at Ohio State.

Sebastian V. Demyttenaere, M.D.
Dr. Demyttenaere completed the fellowship in minimally invasive surgery and began an appointment as assistant professor of surgery at McGill University, in Montreal, Canada.

Mary E. Dillhoff, M.D.
Dr. Dillhoff completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Laura M. Figura, M.D.
Dr. Figura completed the residency in plastic surgery and began a staff appointment at St. Vincent’s Hospital, in Erie, Pa.

Richard B. Fries, M.D.
Dr. Fries completed the fellowship in vascular surgery and began practice with Cardiac, Vascular, and Thoracic Surgeons, Inc., in Cincinnati, Ohio.

Dana M. Goldberg, M.D.
Dr. Goldberg completed the residency in plastic surgery and began private practice in West Palm Beach, Fla.
Kristan D. Guenterberg, M.D.
Dr. Guenterberg completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Nabil A. Habash, M.D.
Dr. Habash completed the residency in plastic surgery and began the reconstructive microsurgery fellowship at Ohio State.

Clinton R. “C.R.” Hall, M.D.
Dr. Hall completed the residency in general surgery and began the fellowship in minimally invasive surgery at Ohio State.

Amy M. Jarvis, M.D.
Dr. Jarvis completed the fellowship in surgical critical care and began an appointment as an attending surgeon at St. Francis Hospital, in Tulsa, Okla.

Patrick I. McConnell, M.D.
Dr. McConnell is scheduled to complete the fellowship in cardiothoracic surgery October 31, 2009.

Syed A. Mehmood, M.D.
Dr. Mehmood completed the fellowship in cardiothoracic surgery and began private practice in Los Angeles, Calif.

Khaled A. Obeidat, M.D.
Dr. Obeidat completed the fellowship in transplantation and began a fellowship in hepatobiliary surgery and surgical oncology at Mount Sinai Medical Center, in New York, N.Y.

Brian S. Porshinsky, M.D.
Dr. Porshinsky completed the fellowship in surgical critical care and began a joint appointment as assistant professor of surgery in the Division of Critical Care, Trauma, and Burn and the Division of Plastic Surgery at Ohio State.

Mark Prosciak, M.D.
Dr. Prosciak completed the fellowship in surgical critical care.

Cameron L. Rink, Ph.D.
Dr. Rink completed the doctoral degree program and began an appointment as assistant professor of surgery in the Division of Vascular Diseases and Surgery at Ohio State.

Mohammadreza Rohaninejad, M.D.
Dr. Rohaninejad completed the residency in general surgery.

Margaret S. Sawyer, M.D.
Dr. Sawyer completed the residency in general surgery and began private practice in Lancaster, Ohio.
Irina Shakhnovich, M.D.
Dr. Shakhnovich completed the master of medical science program and is continuing the residency in general surgery at Ohio State.

Suhail Sharif, M.D.
Dr. Sharif completed the fellowship in surgical oncology and began an appointment as assistant professor of surgery at the University of North Texas/Plaza Medical Center, in Fort Worth, Texas.

Cecilia F. Wang, M.D.
Dr. Wang completed the fellowship in surgical critical care and began an appointment as attending surgeon at St. Francis Hospital, in Tulsa, Okla.

Brian J. Winkleman, M.D.
Dr. Winkleman completed the fellowship in minimally invasive surgery and began an appointment as director of minimally invasive surgery and bariatrics at Provena Saint Joseph Medical Center, in Joliet, Ill.
Annual Surgery Awards Banquet

Outstanding teachers and the 2008–2009 graduates of the Department of Surgery’s training programs were honored June 12, 2009, at the department’s annual awards banquet.

Special Awards
Dr. Clinton R. “C.R.” Hall, chief resident in general surgery, was named Resident of the Year by the Surgery faculty.

Dr. Jon C. Henry was named Intern of the Year by the Surgery faculty.

Heather D. Ratliff, R.N., M.S., C.N.P., nurse practitioner in the Division of Critical Care, Trauma, and Burn, was named Surgical Nurse of the Year by the chief residents in general surgery.

Teaching Awards
Dr. Sherif Abdel-Misih, fellow in surgical oncology, was selected by the general surgery residents to receive a Fellow Teaching Award.

Dr. Clinton R. “C.R.” Hall, chief resident in general surgery, was chosen by the medical students to receive a Resident Teaching Award.

Dr. Alan E. Harzman, assistant professor of clinical surgery in the Division of General and Gastrointestinal Surgery, 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. R. Luis Pompa, assistant professor of clinical gastroenterology, 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
Five trainees received awards for outstanding research presentations at the Department of Surgery’s 14th Annual Research Conference, held May 22.

Cameron L. Rink, Ph.D., a postdoctoral researcher in surgery, received the award for the best research presentation by a graduate research associate, for “Characterization of the Therapeutic Potential for Supplemental Oxygen Therapy in Acute Ischemic Stroke.”

Dr. Kristan D. Guenterberg, a general surgery resident in the Master of Medical Science Program (MMSP), received the award for the best research presentation by a resident, for “Enhanced Antitumor Activity of Interferon-Alpha in SOCS1-Deficient Mice Is Mediated by CD4+ and CD8+ T Cells.”
Dr. Peter N. Nau, a general surgery resident in the MMSP, received the second-place award for a research presentation by a resident, for “Safe Alternative Transgastric Peritoneal Access in Humans: NOTES.”

Dr. Meghan R. Forster, a general surgery resident in the MMSP, received the award for the best research presentation as voted by the interns, for “Optimal Ganciclovir Prophylaxis to Prevent Cytomegalovirus Reactivation in Immunocompetent Hosts.”

Dr. Alicia C. Thomas, a general surgery resident in the MMSP, received the award for the best poster presentation, for “Occult Cytomegalovirus Infection in Vivarium-Housed Mice.”

Medical Student Awards
Department of Surgery faculty honored four senior medical students for exceptional performance and dedication to surgery.

Matthew Alleman received the Ferguson Award in Surgery.

Phillip Horne received the Carey Award in Surgery. Horne also 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.

Jeremy Jensen received the Zollinger Award in Surgery.

Jared Peterson received the Jonasson Award in Surgery.
Recognitions

**Dr. Mark W. Arnold**, professor of clinical surgery in the Division of General and Gastrointestinal Surgery, and vice chairman for surgical education and director of the surgical clerkship in the Department of Surgery, received a Distinguished Educator Award from The Ohio State University College of Medicine.

**Dr. Gail E. Besner**, professor of surgery in the Division of Pediatric Surgery, was appointed to the Executive Committee of the Surgical Research Committee of the American College of Surgeons.

**Dr. Mark Bloomston**, assistant professor of surgery in the Division of Surgical Oncology, received the Junior Faculty Award of the Society of University Surgeons at the society’s Academic Surgical Congress, Feb. 3–6, 2009, in Fort Myers, Fla. Dr. Bloomston received the one-year, $30,000 award for his project, “MicroRNA-21 Expression and Function in Pancreatic Adenocarcinoma.”

**David R. Brigstock, Ph.D.**, of the Division of Pediatric Surgery, was promoted to professor of surgery in October 2008.

**Dr. Charles H. Cook**, associate professor of surgery in the Division of Critical Care, Trauma, and Burn and medical director of surgical critical care at The Ohio State University Medical Center, became a member of the American Association for the Surgery of Trauma.

**Dr. Elmahdi A. Elkhammas**, of the Division of Transplantation, was promoted to professor of clinical surgery in October 2008. Also, on November 26, 2008, Dr. Elkhammas was awarded the 2008 Achievement Award of the Libyan Doctors Society, at the society’s fourth annual meeting. The award recognized Dr. Elkhammas for his work as a transplant surgeon and as founder and editor of the Libyan Journal of Medicine, for his support of Libyan and non-Libyan patients and colleagues, and for his publications in international medical journals.

**Dr. E. Christopher Ellison**, the Robert M. Zollinger professor and chairman of surgery, associate vice president for health sciences, and vice dean of clinical affairs, was elected secretary of the American Surgical Association for 2009 through 2014. Also, Dr. Ellison was named to the Executive Cabinet and the Leadership Council at The Ohio State University Medical Center.

**Dr. Ronald M. Ferguson**, chairman of the Department of Surgery from 1993 to 1999 and chief of the Division of Transplantation from 1985 to 2005, was appointed emeritus professor of surgery April 1, 2009.

Four faculty members in the Division of Critical Care, Trauma, and Burn passed the surgical critical care certifying examination of the American Board of Surgery. They were: **Dr. David E. Lindsey**, assistant professor of clinical surgery, **Dr. Stanislaw P. Stawicki**, assistant professor of surgery, **Dr. Yalaunda M. Thomas**, assistant professor of surgery, and **Dr. Melissa L. Whitmill**, assistant professor of clinical surgery.
Dr. Marc P. Michalsky, assistant professor of clinical surgery in the Division of Pediatric Surgery, was appointed co-chair of the pediatric committee of the American Society for Metabolic and Bariatric Surgery. Also, he was appointed to the childhood obesity focus group of the National Association of Children’s Hospitals and Related Institutions.

Dr. Sidney F. Miller, professor of surgery in the Division of Critical Care, Trauma, and Burn and director of the burn center at The Ohio State University Medical Center, was appointed as a member of the external review panel for the U.S. Army Combat Casualty Care, Combat Critical Care Engineering, Advanced Capabilities for Emergency Medical Monitoring, Automated Critical Care Life Support, and Medical Knowledge Engineering Research programs.

Dr. Susan D. Moffatt-Bruce, assistant professor of surgery in the Division of Cardiothoracic Surgery, was selected by the Center for Clinical and Translational Science (CCTS) at The Ohio State University Medical Center to receive a K12 award for her research project, “The Role of T Cells and Innate Immunity in Cardiac Transplantation.”

Sampath Parthasarathy, Ph.D., M.B.A., the Karl P. Klassen professor of surgery and director of research in the Division of Cardiothoracic Surgery, was awarded the Ranbaxy Science Foundation Research Award, in the field of medical sciences and medical research. Parthasarathy received the award March 19, 2009, at the foundation’s 15th Annual Symposium, which was held at the All India Institute of Medical Sciences, in Delhi, India. Parthasarathy shared the award with Ajit Varkim, distinguished professor of medicine and cellular and molecular medicine at the University of California, in San Diego.

Dr. Patrick Ross, Jr., of the Division of Cardiothoracic Surgery, was promoted to professor of clinical surgery in October 2008.

Dr. Robert L. Ruberg, professor of surgery in the Division of Plastic Surgery and senior vice chairman for administrative affairs in the Department of Surgery, was named director of the Learning Communities Project in The Ohio State University College of Medicine. Learning communities are faculty-led groups of 12 students who meet monthly over the four years of medical school to discuss issues in learning, leadership, and life as a physician.

Chandan K. Sen, Ph.D., professor of surgery in the Division of General and Gastrointestinal Surgery, vice chairman for research in the Department of Surgery, and associate dean for translational and applied research in the College of Medicine, had a patent granted in January 2009 by the United Kingdom, for his invention called “Methods and Compositions for Wound Healing.” In April 2009, Dr. Sen was named to the national Surgery, Anesthesiology and Trauma Study Section, Center for Scientific Review, for July 1, 2009 through June 30, 2013.
Dr. Wiley W. “Chip” Soubra, Jr., professor of surgery in the Division of Surgical Oncology, dean of The Ohio State University College of Medicine, and vice president for health sciences at The Ohio State University Medical Center, met with area health care experts and advocates for health care reform on December 30, 2008, to summarize their views and suggestions for a national health plan. The plan was forwarded to the transition team of then President-elect Barack Obama.

Dr. Benjamin C. Sun, associate professor of surgery and chief of the Division of Cardiothoracic Surgery, was granted tenure in October 2008.

Dr. Patrick S. Vaccaro, professor of surgery and chief of the Division of Vascular Diseases and Surgery, was appointed chairman of the Ohio District 3 Committee on Applicants of the American College of Surgeons.

Dr. Michael J. Walker, the late associate professor of surgery in the Division of Surgical Oncology, was remembered during a memorial service September 22, 2008, at The Ohio State University Medical Center. Dr. Walker died September 1, 2008.
In the News

Dr. Doreen M. Agnese, assistant professor of surgery in the Division of Surgical Oncology, discussed genetic testing and counseling during an interview aired September 3, 2008, by WSYX-TV/6. On September 4, 2008, Dr. Agnese participated in a live “Stand Up to Cancer” web chat on 10TV.com. On April 8, 2009, her presentation at the 62nd Annual Cancer Symposium of the Society of Surgical Oncology was the subject of a story in Oncology Nursing News.

Dr. Kenneth A. Andreoni, associate professor of surgery and director of liver transplantation in the Division of Transplantation, was quoted October 14, 2008, by the Associated Press, in a story on kidney transplantation and the kidney distribution system. On March 12, 2009, he was quoted by the Toledo Blade, in a story about kidney transplantation.

Dr. Mark W. Arnold, professor of clinical surgery in the Division of General and Gastrointestinal Surgery, was the subject of an announcement in the January 2, 2009 issue of Business First, which noted that he received a Distinguished Educator Award from The Ohio State University College of Medicine.

Dr. Mark Bloomston, assistant professor of surgery in the Division of Surgical Oncology, was mentioned March 26, 2009, in a Suburban News Publications story about two high school students who are raising money for pancreatic cancer research for their senior thesis project.

Dr. Donna A. Caniano, the H. William Clatworthy, Jr., professor of surgery and chief of the Division of Pediatric Surgery, was profiled in the spring 2009 issue of Capital Style.

Mark Dickman, director of surgery information systems, was pictured in the 2008–2009 onCampus Guide with other top performers in The Ohio State University Medical Center’s Bravo Recognition Program.

Dr. William B. Farrar, professor of surgery and chief of the Division of Surgical Oncology, discussed breast cancer during an interview aired October 30, 2008, by WBNS-TV/10.

Dr. Gayle M. Gordillo, assistant professor of surgery in the Division of Plastic Surgery and director of the plastic surgery laboratory at The Ohio State University Medical Center, was quoted January 21, 2009, by WebMD, in a story about her study demonstrating that blueberry extract can limit tumor formation.

Dr. Jonathan I. Groner, clinical associate professor of surgery and medical director of trauma at Nationwide Children’s Hospital, was quoted July 2, 2008, by the Tucson Citizen, in a story about executions by lethal injection. On September 25, 2008, on ABC News (online), Dr. Groner discussed the potential moral pitfalls of a British philosopher’s suggestion that those suffering from dementia should make a decision to end their own lives. On May 18, 2009, he was quoted by the Columbus Dispatch, in a story about the role of EMTs in executions.
Dr. Clinton R. “C.R.” Hall, chief resident in general surgery; Dr. Bhagwan Satiani, professor of clinical surgery in the Division of Vascular Diseases and Surgery and director of non-invasive vascular services at The Ohio State University Medical Center; and Dr. Thomas E. Williams, Jr., clinical associate professor of surgery in the Division of Cardiothoracic Surgery, were quoted January 22, 2009, by the Columbus Dispatch, in a story about the dwindling number of general surgeons.


Dr. Mitchell L. Henry, professor of surgery and chief of the Division of Transplantation, spoke at a ceremony at The Ohio State University Medical Center recognizing organ donors. On April 20, 2009, WSYX-TV/6 aired a story about the ceremony.

Dr. David E. Lindsey, assistant professor of clinical surgery in the Division of Critical Care, Trauma, and Burn, was quoted August 21, 2008, by the Columbus Dispatch, in a story about the approval of trauma triage criteria for geriatric patients.

Dr. Louis B. Louis, IV, assistant professor of surgery in the Division of Cardiothoracic Surgery, discussed a patient who received an implanted left ventricular assist device at The Ohio State University Medical Center, during an interview aired May 8, 2009, by WBNS-TV/10.

Dr. Edward W. Martin, Jr., professor of surgery in the Division of Surgical Oncology, was quoted May 1, 2009, by Business First, in a story about a partnership between Cardinal Health, Inc., and The Ohio State University to develop radioactive diagnostic agents.

Dr. W. Scott Melvin, professor of surgery, vice chairman for academic affairs in the Department of Surgery, chief of the Division of General and Gastrointestinal Surgery, and director of the Center for Minimally Invasive Surgery, was quoted July 8, 2008, by the (New Jersey) Star-Ledger, in a story about incisionless surgery. On March 13, 2009, he was quoted by the Columbus Dispatch, in a story about new research on laparoscopic versus traditional open appendectomies.

Dr. Dean J. Mikami, assistant professor of surgery in the Division of General and Gastrointestinal Surgery, was quoted in the August 2008 issue of O, the Oprah Magazine, in a story on endolumenal bariatric surgery.

Dr. Michael J. Miller, professor of surgery and chief of the Division of Plastic Surgery, was quoted June 2, 2009, by HealthNewsDigest.com, in a story about reconstructive breast surgery. On June 10, 2009, he was quoted by the Ohio News Network, in a story about reconstructive breast surgery.

Dr. Sidney F. Miller, professor of surgery in the Division of Critical Care, Trauma, and Burn and medical director of the Burn Center at The Ohio State University Medical Center, was quoted July 28, 2008, by the Columbus Dispatch, in a story about an increase in Franklin County autopsy rates for
trauma victims. On September 28, 2008, Dr. Miller was quoted by the Columbus Dispatch in a story about a burn victim treated at The Ohio State University Medical Center. The October 2008 issue of Columbus C.E.O. noted his appointment as the first vice president of the American Burn Association. On January 7, 2009, WSYX-TV/6 and WTTE-TV/28 noted the verification of The Ohio State University Medical Center’s Burn Center under the direction of Dr. Miller. On May 5–6, 2009, HealthNewsDigest.com noted his appointment as president-elect of the American Burn Association. On June 5, 2009, Dr. Miller was quoted by the Columbus Dispatch, in a story about lightning strikes. On June 26, 2009, he discussed burn prevention in an interview on “Good Day Columbus,” on WTTE-TV/28.

Dr. Susan D. Moffatt-Bruce, assistant professor of surgery in the Division of Cardiothoracic Surgery, was quoted June 4, 2009, by the Columbus Dispatch, the Cleveland Plain Dealer, and the Associated Press, in stories about the halting of the lung transplant program at The Ohio State University Medical Center, due to the small number of procedures being performed.

Dr. Stephen P. Povoski, associate professor of surgery in the Division of Surgical Oncology, was shown in a photo accompanying a story about Battelle’s contributions to medical technology, in the January 28, 2009 issue of the Columbus Dispatch.

Dr. Amer Rajab, assistant professor of surgery and director of pancreas and islet transplantation in the Division of Transplantation, was quoted July 12, 2008, by the Columbus Dispatch, in a story about a kidney transplant at The Ohio State University Medical Center. On November 25, 2008, Dr. Rajab discussed pancreatectomy with auto-islet cell transplantation during an interview aired by WBNS-TV/10 and the Ohio News Network. On November 27, 2008, he was quoted by the Columbus Dispatch, in a story about the first pancreatectomy with auto-islet cell transplantation procedure performed at Ohio State’s Medical Center. On December 2, 2008, Dr. Rajab was quoted by the Springfield News-Sun, in a story about the procedure. The June issue of Columbus C.E.O. noted that he headed the medical team that performed the procedure.

Dr. Robert L. Ruberg, professor of surgery in the Division of Plastic Surgery and senior vice chairman for administrative affairs in the Department of Surgery, was pictured September 28, 2008, by the Columbus Dispatch, in a story about a burn victim treated at The Ohio State University Medical Center.

Chandan K. Sen, Ph.D., professor of surgery in the Division of General and Gastrointestinal Surgery, vice chairman for research in the Department of Surgery, and associate dean for translational and applied research at The Ohio State University College of Medicine, was quoted February 8, 2009, by the Columbus Dispatch, in a story about embryonic stem-cell research.

Dr. Wiley W. “Chip” Souba, Jr., professor of surgery in the Division of Surgical Oncology, dean of the College of Medicine, and vice president for health sciences at The Ohio State University Medical Center, was quoted September 22, 2008, by the Columbus Dispatch, in a story about hospital conflict-of-interest policies. On November 24, 2008, Dr. Souba was quoted by the Columbus Dispatch, in a story about research space at Ohio State’s Medical Center. On December 12, 2008, he was quoted by
Business First, in a story about a predicted shortage of general surgeons. On January 30, 2009, Dr. Souba was quoted by Business First, in a story about the need to add research space at The Ohio State University Medical Center. On February 5, 2009, he was quoted by Nature, in a story about the lack of National Institutes of Health funding for promising researchers. On March 27, 2009, Dr. Souba was quoted by Business First, in a story about an expansion at Nationwide Children’s Hospital.

**Dr. Jean E. Starr**, assistant professor of clinical surgery in the Division of Vascular Diseases and Surgery, discussed a clinical trial at The Ohio State University Medical Center examining a new treatment for patients unable to control their high blood pressure with medications and lifestyle changes, during an interview aired February 12, 2009, on WBNS-TV/10.

**Dr. Stanislaw P. Stawicki**, assistant professor of surgery in the Division of Critical Care, Trauma, and Burn, and **Dr. Melissa L. Whitmill**, assistant professor of clinical surgery in the division, were the subjects of announcements in the September 3, 2008 Columbus Daily Reporter, the September 7, 2008 Columbus Dispatch, and the September 12, 2008 Business First, which noted their appointments to the faculty of the Department of Surgery.

**Dr. Steven M. Steinberg**, professor of surgery, chief of the Division of Critical Care, Trauma, and Burn, and vice chairman for clinical affairs in the Department of Surgery, discussed an increase in trauma cases in an interview aired July 14, 2008, by WCMH-TV/4, WSYX-TV/6, and WTTE-TV/28. On January 12, 2009, Dr. Steinberg was profiled in a Columbus Dispatch multimedia project on people whose occupations frequently place them in situations where they must confront death. On February 25, 2009, he was quoted by the Columbus Dispatch, in a story about a proposed change to Ohio’s seat belt law. On May 18, 2009, Dr. Steinberg discussed the importance of wearing a seat belt during an in-studio interview on “Good Day Columbus,” a local morning news program on WTTE-TV/28. On May 20, 2009, he commented on proposed legislation that would increase the speed limit in predominately rural areas, in an interview broadcast by WBNS-TV/10. On June 7, 2009, Dr. Steinberg was quoted by the Columbus Dispatch, in a story about an Ohio State University Medical Center study of outcomes of Level I trauma centers versus those of Level II centers. On June 11, 2009, he was quoted by the Columbus Dispatch, in a story about a patient recovering from necrotizing fasciitis.

**Dr. Benjamin C. Sun**, associate professor of surgery and chief of the Division of Cardiothoracic Surgery, discussed the case of a patient who received a heart transplant at the Richard M. Ross Heart Hospital, in an interview aired December 4, 2008, by WCMH-TV/4. On April 20, 2009, Dr. Sun discussed a new heart therapy device during an interview broadcast by WBNS-TV/10 and WTVN Radio. On April 23, 2009, he was quoted by the Los Angeles Times, in an online story about a new device designed to assist the pumping action of the heart in patients with moderate heart failure.

**Dr. Anne Taylor**, clinical assistant professor of surgery in the Division of Plastic Surgery, discussed eyelash growth enhancers recently approved by the Food and Drug Administration, in an interview aired February 25, 2009, by WBNS-TV/10.
Dr. Thomas E. Williams, Jr., clinical associate professor of surgery in the Division of Cardiothoracic Surgery, was quoted December 10, 2008, by Washington Post.com, in a story about a study he authored, which predicts a shortage of general surgeons in the United States by 2010. On December 12, 2008, Dr. Williams was quoted by Business First, in a story about the study.
Distinguished Guests

**Frank Arko, M.D.**
Frank Arko, M.D., associate professor of surgery and chief of endovascular surgery at the University of Texas Southwestern Medical Center, in Dallas, Texas, presented “Thrombolysis in the Management of DVT: A Current Perspective” at a meeting of the Mid-Ohio Endovascular Club, March 4, 2009.

**Juan A. Asensio, M.D.**
Juan A. Asensio, M.D., professor of surgery and director of trauma clinical research, training, and community affairs at the University of Miami, in Miami, Fla., presented a Surgery Grand Rounds lecture titled “Difficult Injuries and Difficult Problems in Trauma Surgery,” October 30, 2008.

**Robin Avery, M.D.**
Robin Avery, M.D., professor of medicine at the Cleveland Clinic Lerner College of Medicine, in Cleveland, Ohio, presented “Treatment of Complex CMV Syndromes in Solid Organ Transplant Patients,” March 25, 2009.

**Stanley J. Dudrick, M.D.**
Stanley J. Dudrick, M.D., professor of surgery at Yale University, in New Haven, Conn., and emeritus chairman of surgery and program director at St. Mary’s Hospital, in Waterbury, Conn., presented a Surgery Grand Rounds lecture titled “Lessons and Legacies of Total Parenteral Nutrition,” April 9, 2009.

**N. Joseph Espat, M.D.**

**Rob Fairchild, Ph.D.**
Rob Fairchild, Ph.D., professor of molecular medicine at the Cleveland Clinic Lerner College of Medicine and professor of pathology at Case Western Reserve University, in Cleveland, Ohio, presented the 2009 Charles G. Orosz Memorial Lecture, titled “Seeing the Orosz Legacy: Uncorking One Receptor to Expose the Chaos Within,” April 8, 2009.

**Lewis Flint, M.D.**
Timothy C. Flynn, M.D.

Brian R. Hopkinson, M.D.
Brian R. Hopkinson, M.D., emeritus professor of vascular and endovascular surgery at the University of Nottingham, in Nottingham, England, presented “A Personal History of Aortic Endovascular Surgery” at a meeting of the Mid-Ohio Endovascular Club, on November 19, 2008, and as the Surgery Grand Rounds lecture, November 20, 2008.

W. Anthony Lee, M.D.
W. Anthony Lee, M.D., associate professor of surgery in the Division of Vascular Surgery and Endovascular Therapy at the University of Florida, in Gainesville, Fla., presented “Current Endovascular Management of Type B Aortic Dissections” at a meeting of the Mid-Ohio Endovascular Club, May 7, 2009.

John H. Marks, M.D.
John H. Marks, M.D., assistant clinical professor of surgery at MCP Hahnemann University, in Philadelphia, Pa., and chief of the section of colorectal surgery at Lankenau Hospital, in Wynnewood, Pa., presented a Surgery Grand Rounds lecture titled “Rectal Cancer Management: Sphincter Preservation and Minimally Invasive Techniques,” October 2, 2008.

Frank R. Miele, M.S.E.E.

Maurice Nahabedian, M.D.

Douglas K. Ousterhout, M.D.

Linda G. Phillips, M.D.
Erik G. Van Eaton, M.D.

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

<table>
<thead>
<tr>
<th>Period</th>
<th>Chairman</th>
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<tbody>
<tr>
<td>1914–1916</td>
<td>Dr. William J. Means</td>
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<tr>
<td>1916–1922</td>
<td>Dr. Verne A. Dodd (Head of Clinical Surgery)</td>
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<td>1922–1926</td>
<td>Dr. Charles S. Hamilton</td>
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<tr>
<td>1927–1946</td>
<td>Dr. Verne A. Dodd (Head of Clinical Surgery)</td>
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<td>1936–1952</td>
<td>Dr. George M. Curtis (Chairman of Surgical Research)</td>
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<td>1946–1974</td>
<td>Dr. Robert M. Zollinger</td>
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<td>1975–1986</td>
<td>Dr. Larry C. Carey</td>
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<td>1987–1992</td>
<td>Dr. Olga Jonasson</td>
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<td>1993–1998</td>
<td>Dr. Ronald M. Ferguson</td>
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<tr>
<td>1999 – present</td>
<td>Dr. E. Christopher Ellison</td>
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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.
This academic year has been one of the most challenging in recent memory for the Division of Cardiothoracic Surgery. The economic challenges that all of us have faced this year have affected our division as well. This becomes particularly frustrating when all traditional markers of divisional health, such as increasing clinical volume, lower mortality, high patient satisfaction, increase in research funding, and increased national and international recognition, have all continued to improve for our group. In addition, fewer candidates are interested in entering our challenging field. We are already seeing a shortage in cardiothoracic surgeons in the United States. Despite these challenges, I believe we’ve just passed an inflection point. Our division is poised for continued growth in all of our mission charges: clinical productivity, research productivity, and education.

Clinical Programs
Our division was the first in North America to offer robotic cardiothoracic surgery, beginning in 1999. With the evolution of the newer techniques and instrumentation, our team is able to provide therapies that until recently were only a dream. Our surgeons perform many thoracic and cardiac procedures robotically. In fact, our team is one of only a handful in the world able to provide totally robotically-assisted closed chest, beating heart, coronary bypass grafting.

Dr. John Sirak has developed and published a new version of the thoracoscopic Maze procedure that provides validation for each of the lesion sets. This has great potential for increasing the efficacy of this procedure for our patients in atrial fibrillation. In addition, our team was the first in the world to do this procedure robotically.

Our mechanical circulatory support program continues to grow in volume and national recognition. We performed more than 95 mechanical circulatory support procedures this year, with an additional 21
adult ECMO procedures. Because of the success of our program, we have access to support devices that very few institutions can offer. We can therefore provide a more personalized option for our patients requiring mechanical support.

With the successful recruitment of Dr. Edmund Kassis, who completed his cardiothoracic training at the M.D. Anderson Cancer Center and will join the division July 1, 2009, we are enthusiastic about revitalizing our foregut surgical options.

Research Programs
Dr. Sampath Parthasarathy continues to lead our research program and was successful in acquiring an additional R01 grant from the National Institutes of Health. This year, our group generated 32 published journal articles and abstracts and 43 presentations at national and international meetings. Our division is participating in more than 30 ongoing clinical trials.

Education
The cardiothoracic surgery residency program recently underwent its cycled review and received full accreditation. Two fellows completed the program in June 2009. Dr. Syed Mehmood took a private practice position in Los Angeles, Calif., and Dr. Patrick McConnell took an academic position at Nationwide Children’s Hospital and The Ohio State University Medical Center.

We are beginning to face a shortage in cardiothoracic surgeons, as there are substantially more cardiothoracic surgeons retiring (approximately 133 per year) than are being trained (approximately 100 per year). With a growing and aging population, we are already seeing the results of this discrepancy unfold. We presented our findings on this shortage at the first morning plenary session of the American Association for Thoracic Surgery this year. Our analysis has been validated by other sources, including the Institute of Medicine. Our challenge in the coming years will be to attract the best and the brightest students to our field. Lifestyle and quality of life will be important, as will producing exciting innovations in cardiothoracic surgery.
Faculty

**Benjamin C. Sun, M.D.**
Associate Professor of Surgery; Chief, Division of Cardiothoracic Surgery; Director, Cardiac Transplantation and Mechanical Support

*B.S.:* Yale University, New Haven, Conn., 1984  
*M.D.:* State University of New York, Stony Brook, N.Y., 1989  
**Specialty Training:** University of North Carolina Hospitals, Chapel Hill, N.C.; Columbia-Presbyterian Medical Center, New York, N.Y.

**Appointment:** 2002  
**Specialty Interests:** Heart transplantation  
**Research Interests:** Direct mechanical ventricular actuation

**Juan A. Crestanello, M.D.**
Assistant Professor of Surgery

*M.D.:* 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, M.D.**
Assistant Professor of Surgery

*B.A.:* University of Chicago, Chicago, Ill., 1990  
*M.D.:* Case Western Reserve University, Cleveland, Ohio, 1996  
**Specialty Training:** Ohio State University Medical Center, Columbus, Ohio; Cleveland Clinic, Cleveland, Ohio; National Heart, Lung, and Blood Institute, Bethesda, Md.; University Hospitals, Cleveland, Ohio

**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, M.D.
Associate Professor of Clinical Surgery
M.D.: Cornell University Medical College, New York, N.Y., 1987
Specialty Training: Columbia-Presbyterian Medical Center, New York, N.Y.
Appointment: 2002
Specialty Interests: Pediatric transplantation and surgery

Pawel Kwiatkowski, M.D.
Research Assistant Professor of Surgery
B.A.: ILO Swietochlowice, Poland, 1982
M.D.: Silesian Academy of Medicine, Katowice, Poland, 1988
Specialty Training: Silesian Academy Medical Center, Zabrze, Poland; Columbia University, New York, N.Y.
Appointment: 1998
Research Interests: Transplant immunology, including xenotransplantation and allotransplantation of heart and lung

Louis B. Louis, IV, M.D.
Assistant Professor of Surgery
B.A.: Virginia Military Institute, Lexington, Va., 1994
M.D.: University of Miami, Miami, Fla., 1998
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 2008
Specialty Interests: Adult cardiac surgery, surgery for heart failure, mechanical circulatory support, cardiac transplantation, cardiovascular surgical critical care

Susan D. Moffatt-Bruce, M.D., Ph.D.
Assistant Professor of Surgery
B.A.: McGill University, Montreal, Quebec, Canada, 1990
M.D.: Dalhousie University, Halifax, Nova Scotia, Canada, 1994
Ph.D.: 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, Calif.
Appointment: 2006
Specialty Interests: Lung transplant, heart transplant, transplant outcomes, thoracic oncology
Research Interests: Transplant immunology
**Sampath Parthasarathy, Ph.D., M.B.A.**
The Karl P. Klassen Professor of Surgery; Director of Research, Division of Cardiothoracic Surgery

**Ph.D.:** Indian Institute of Science, Bangalore, India, 1975

**M.B.A.:** University of Phoenix, 2004

**Specialty Training:** Kyoto University, Kyoto, Japan; Duke University, Durham, N.C.; the Hormel Institute, University of Minnesota, Austin, Minn.

**Appointment:** 2006

**Research Interests:** Vascular biology and medicine

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**Alistair B. M. Phillips, M.D.**
Assistant Professor of Surgery

**B.S.:** Johns Hopkins University, Baltimore, Md., 1990

**M.D.:** Columbia University, New York, N.Y., 1994

**Specialty Training:** Residency in general and cardiothoracic surgery, New York-Presbyterian Hospital and Weill Cornell Medical Center, New York, N.Y.; fellowship in pediatric cardiac surgery, Columbia University Medical Center, New York, N.Y.

**Appointment:** 2006

**Specialty Interests:** Pediatric cardiothoracic surgery

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**Patrick Ross, Jr., M.D., Ph.D.**
Professor of Clinical Surgery

**A.B.:** Harvard University, Cambridge, Mass., 1977

**M.D., Ph.D.:** St. Louis University, St. Louis, Mo., 1983

**Specialty Training:** University of Pennsylvania, Philadelphia, Pa.

**Appointment:** 1991

**Specialty Interests:** Lung volume reduction, thoracic surgical oncology, benign noncardiac thoracic disease, lung transplantation

**Research Interests:** New modality lung cancer therapy

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**Chittoor B. Sai-Sudhakar, M.B.B.S., F.A.C.S., F.R.C.S.**
Assistant Professor of Surgery

**B.A.:** Loyola College, Madras, India, 1975

**B.Sc.:** Presidency College, Madras, India, 1976

**M.B.B.S.:** Stanley Medical College, Madras, India, 1982

**Specialty Training:** Yale-affiliated residency, St. Mary’s Hospital, Waterbury, Conn.

**Appointment:** 2003

**Specialty Interests:** Aortic surgery, heart failure

**Research Interests:** Pathways in endothelial cells
John H. Sirak, M.D.
Assistant Professor of Clinical Surgery
B.A.: Amherst College, Amherst, Mass., 1985
M.D.: Case Western Reserve University, Cleveland, Ohio, 1991
Specialty Training: General surgery residency, minimally invasive cardiothoracic surgery fellowship, The Ohio State University, Columbus, Ohio; arrhythmia surgery fellowship, Cleveland Clinic, Cleveland, Ohio
Appointment: 2004
Specialty Interests: Surgery for atrial fibrillation
Research Interests: Transplant immunology

Alexandru M. Vaida, M.D.
Assistant Professor of Surgery
B.A.: St. Sava National College, Bucharest, Romania
M.D.: University of Medicine and Pharmacy, Targu-Mures, Romania, 1995
Specialty Training: Ohio State University Medical Center, Columbus, Ohio; Targu-Mures General Hospital, Targu-Mures, Romania; Veterans Affairs Medical Center, Richmond, Va.; Medical College of Virginia Hospitals, Richmond, Va.
Appointment: 2006
Specialty Interests: Thoracic oncology, lung transplant, esophageal surgery

Paul A. Vesco, M.D.
Assistant Professor of Surgery
M.D.: University of Kentucky, Lexington, Ky., 1997
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 2008
Specialty Interests: Minimally invasive robotic cardiac and thoracic surgery

Emeritus Faculty

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

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

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

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

Clinical Faculty

Thomas E. Williams, Jr., M.D., Ph.D.
Clinical Associate Professor of Surgery
M.S., M.D.: The Ohio State University, Columbus, Ohio, 1963
Ph.D.: Northwestern University, Evanston, Ill., 1969

Resident Staff

Murtaza Dawood, M.D.
PGY-6
B.S.: University of Maryland, College Park, Md., 1997
M.D.: Saba University, Netherlands-Antilles, 2002
Mission

The Division of Cardiothoracic Surgery is dedicated to preserving and improving life for patients with heart and lung disease.

Research Programs

• AB5000 Circulatory Support System Data Registry.

• CardioWest Temporary Total Artificial Heart post-market surveillance study.

• Chronic heart failure model in sheep.

• Chronic unloading therapy with Heartmate II VAD in an ovine ischemic cardiomyopathy model.

• Circulating endothelial cells and thrombosis.

• Clinical trial of the On-X Prosthetic Heart Valve using low-dose anticoagulation.

• Collaborative study of mitochondrial function in ischemia.
• Comparative clinical and pharmacoeconomic 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.

• C-Pulse implantable counterpulsation pump for treating heart failure.

• Destiny trial: effects of mitral valve annuloplasty with the GeoForm Ring on left ventricular geometry and function in patients with cardiomyopathy.

• Dietary oxidized lipids and atherosclerosis.

• Evaluation of glycemic control in cardiac surgery patients.

• Evaluation of the HeartWare LVAD system for the treatment of advanced heart failure.

• Heartmate II VAD destination therapy.

• Heartmate II VAD imaging study.

• Heartware BTT.

• The immunobiology of insulin resistance: the role of T regulatory cells.

• Immunobiology of photodynamic therapy in lung cancer patients.

• Immunobiology of transplant-related heart failure.

• INTERMACS (Interagency Registry for Mechanically-Assisted Circulatory Support).

• Levitronix CentriMag LVAS for failure to wean CPB.

• Mechanical, cellular, and pharmacological therapy for congestive heart failure.

• Mechanisms of bronchiolitis obliterans in pediatric and adult lung transplants.

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

• Multicenter study comparing thymectomy to no thymectomy in myasthenia gravis patients on prednisone.

• Non-pharmacological dietary modulation of atherosclerosis by sesame oil.
• A novel approach to generate regulatory T cells using CD103 depletion.

• OSU Heart Center biobank.

• Oxidation hypothesis: paradoxes and pitfalls.

• Patient discharge using the AB Portable Driver System.

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

• Preclinical cardiac device study.

• A prospective, multicenter, 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.

• A randomized, controlled, Phase 3 study of gentamicin-collagen sponge (Collatamp G) in cardiac surgical subjects at higher risk for sternal wound infection.

• 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 scheduled for cardiothoracic surgery.

• A randomized study to compare sizing, implant techniques and homodynamic performance between the Mitroflow and the Carpentier-Edwards Magna pericardial tissue valves in the aortic position.

• Impella Recover I 5.0.

• A retrospective and prospective study of patients with atrial fibrillation and the postoperative outcomes, quality of life, and arrhythmia reoccurrence rates after undergoing the total thoracoscopic Maze procedure.

• 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 dietary oxidized lipids in atherosclerosis.

• 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.

• Schering-Plough CABG clinical research study.
• Simultaneous carotid endarterectomy and cardiac surgery.

• STICH protocol for surgical treatment of ischemic heart failure.

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

• Study to determine the presence of oxidized low density lipoproteins (Ox-LDL) and its degradation products in the blood and left ventricular tissue of patients with heart failure.

• Supravalvular aortic stenosis.

• Thoratec left ventricular assist device congestive heart failure sheep.

• Thrombosis model of heart failure in sheep.

• Tissue/serum repository for cardiac and thoracic surgery.

• VAD watch telehealth monitoring in the residential setting.

• VentrAssist bridge to transplant.

• VentrAssist destination therapy.

Accomplishments in Research

• Dr. Pawel Kwiatkowski was credited with two patents: “Spin Probes and Measurements for Minimally Invasive Monitoring and Imaging of Cardiovascular Events” and “Use of Paramagnetic Particles to Monitor Effectiveness of Cell Transplantation.”

• Dr. Pawel Kwiatkowski was the recipient of the 2009 OSU Undergraduate Enrichment Award for “The Detection of Heart Failure Biomarker Using Sheep-Specific Antibodies: Optimization of the Assay Protocol.”

• Dr. Pawel Kwiatkowski was a judge of scientific abstracts in the Cardiovascular Surgery Section for The Ohio State University Medical Center’s Annual Research Day, on April 2, 2009.

• Dr. Pawel Kwiatkowski was a judge of medical sciences abstracts for The Ohio State University’s Denman Undergraduate Research Forum, on May 13, 2009.

• Dr. Sampath Parthasarathy received the Medical Science Award of the Ranbaxy Foundation, in New Delhi, India.
• Dr. Sampath Parthasarathy was credited with two inventions: “Methods for Making Multi-targeted Methylenedioxyphenol-based Compositions and Uses Thereof” and “Labeling of Liposomes with Cholesteryl-9-carboxynonanoate for Improved Stability and Pharmacokinetics and Using Them as Targeted MRI Probes.”

• Gregory Steinbaugh received a $650 travel award from The Ohio State University’s Office of Postdoctoral Programs.

Active Research Grants

**Crestanello J.** Are mitochondria-mediated free oxygen radicals mediators of preconditioning? 2007 American College of Surgeons Faculty Research Fellowship, July 1, 2007 – June 30, 2009, $80,000.

**Crestanello J.** Destiny trial: effects of mitral valve annuloplasty with the GeoForm Ring on left ventricular geometry and function in patients with cardiomyopathy. Edwards Lifesciences, November 3, 2006 – November 3, 2009, $57,190.


**Moffatt-Bruce S, Hadley G.** The role of macrophages in acute cellular rejection in cardiac transplant rejection. Clinical and Translational Science Award, K12 Scholars Award 2009–2011, $196,000/year.


Parthasarathy S. Novel mechanisms by which aspirin might protect against atherosclerosis. National Heart, Lung, and Blood Institute, R01, July 1, 2008 – June 30, 2013, $250,000/year.


Sai-Sudhakar CB. Anticoagulation strategy with bioprosthetic valves postoperative event registry (ANSWER). Duke University, August 10, 2007 – August 9, 2008, $8,150.


Sai-Sudhakar CB. Investigating the prevalence and role of autoantibodies to endothelial cells in patients following acute myocardial infarction and in congestive heart failure. Ross Academic Enrichment Grant, 2008–2009, $78,000.

Sai-Sudhakar CB. Potential auto-antibodies to endothelial cells and their role in angiogenesis and neovascularization following acute coronary events. Davis/Bremer Research Grant, 2008–2010, $50,000 annually for two years.


Sun B, Crestanello JA. CentriMag VAS: use as an RVAS following implantation of a commercially-approved LVAS. Levitronix, LLC, September 2, 2005 – September 1, 2008, $10,000.


Clinical Programs

- Adult cardiothoracic surgery.
- Aortic surgery.
- Arrhythmia surgery.
- Heart failure surgery.
- Heart transplantation.
- Heart-lung transplantation.
- Lung transplantation.
- Lung volume reduction surgery.
- Mechanical circulatory support.
- Minimally invasive heart surgery.
- Photodynamic therapy.
• Robotic surgery.

• Thoracic oncology.

• Total artificial heart transplantation.

Accomplishments in Clinical Care

• Dr. Patrick Ross, Jr. was chief of staff-elect of the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, Columbus, Ohio, 2007–2009.

Clinical Statistics

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>2,682</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>7,602</td>
</tr>
<tr>
<td>Admissions</td>
<td>1,732</td>
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<tr>
<td>Patient Days</td>
<td>18,688</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>9.38</td>
</tr>
</tbody>
</table>

Educational Programs

• Two-year cardiothoracic surgery fellowship accredited by the Accreditation Council for Graduate Medical Education.

• One-year fellowship in mechanical circulatory support.

• Comprehensive rotation in cardiothoracic surgery for first- and third-year residents in general surgery.

Accomplishments in Education

• Awarding to Dr. Susan Moffatt-Bruce of the 2009 OSU College of Medicine Excellence in Teaching Award for the Department of Surgery.

• Completion of the cardiothoracic surgery fellowship by Dr. Syed Mehmood in June 2009.

• Accreditation of the Congenital Fellowship Program at Nationwide Children’s Hospital. The program is one of six certified congenital fellowship programs in cardiothoracic surgery in the United States.

• Awarding of the Samuel J. Roessler Memorial Medical Research Scholarships to medical students Harrison Jackson and Joseph Meyerson, under the direction of their research advisor, Dr. Susan Moffatt-Bruce; and to medical student Shashir Sharma, under the direction of his research advisor, Dr. Juan Crestanello.

Miscellaneous Achievements

Michael S. Firstenberg, M.D.
• Question writer, Self-Education Self-Assessment in Thoracic Surgery (SESATS X).
• Manuscript reviewer, the Journal of Cardiac Failure, Circulation (Imaging), and the European Journal of Heart Failure.
• Editorial board member, Cardiovascular Diseases for “Case Reports in Medicine.”
• Elected as a fellow of the American College of Cardiology (FACC).

Mark Galantowicz, M.D.

Alistair B. M. Phillips, M.D.
• Listed in *America’s Top Surgeons*, 2009.

Benjamin C. Sun, M.D.
• Editor, Adult Cardiac Section, Self-Education Self-Assessment in Thoracic Surgery (SESATS X).
Publications


Rodeman R, John T, Phillips A. Seeing the whole picture: video-assisted cardioscopy is helping both perioperative teams and patients achieve better outcomes. *OR Nurse* 2008; 2(10):44–47.


Abstracts


International Presentations


**Crestanello JA.** Fronteras en el tratamiento de revascularización en la cardiopatía isquémica. Simposium: Comité de Cirugía Cardiaca y Hemodinamia. 24 Congreso Uruguayo de Cardiología (24th Uruguayan Congress of Cardiology), Montevideo, Uruguay, December 4, 2008.


**Crestanello JA.** Mitral valve repair with the GeoForm ring. Simposium: Comité Cirugía Cardiaca, 24 Congreso Uruguayo de Cardiología (24th Uruguayan Congress of Cardiology), Montevideo, Uruguay, December 4, 2008.


National Presentations


Sun BC. Surgery for end-stage heart disease: where are we going? Penn State University College of Medicine, the Milton S. Hershey Medical Center, 13th Annual William S. Pierce Lecture, Hershey, Pa., May 4, 2009.


Miscellaneous Presentations

Crestanello JA. Cryomaze procedure ATS wet lab. The Ohio State University Medical Center, Cardiothoracic Surgery Fellows Conference, Columbus, Ohio, March 5, 2009.

Crestanello JA. Hypertrophic obstructive cardiomyopathy. The Ohio State University Medical Center, Cardiothoracic Surgery Fellows Conference, Columbus, Ohio, July 17, 2008.

Crestanello JA. Ischemic mitral regurgitation. The Ohio State University Medical Center, Cardiothoracic Surgery Fellows Conference, Columbus, Ohio, September 11, 2008.

Crestanello JA. Ischemic preconditioning and mitochondria ultrastructure and function. The Ohio State University Medical Center, Davis Heart and Lung Research Institute Research in Progress, Columbus, Ohio, February 27, 2009.

Crestanello JA. Mitral valve repair and heart failure. The Ohio State University Medical Center, Seventh Annual Heart Failure Update, Columbus, Ohio, November 21, 2008.

Crestanello JA (Course Co-director). Prosthetic aortic stenosis. The Ohio State University Medical Center, Imagine 2008: Cardiovascular Imaging for the Practitioner, Columbus, Ohio, October 24–25, 2008.

Crestanello JA (Course Director). Robotic mitral valve surgery. The Ohio State University Medical Center, Columbus, Ohio, August 27–28, 2008.

Crestanello JA. Root enlargement procedures. The Ohio State University Medical Center, Cardiothoracic Surgery Fellows Conference, Columbus, Ohio, January 21, 2009.


Firstenberg MS. Catastrophic complication with mechanical support. The Ohio State University Medical Center, Seventh Annual Heart Failure Update, Columbus, Ohio, November 21, 2008.

Haubert L, Jones K, Moffatt-Bruce SD. Surgical clinical correlates in anatomy: implementation of a first-year medical student program. The Ohio State University Medical Center, Department of Surgery Grand Rounds, Columbus, Ohio, May 28, 2009.

Haubert L, Jones K, Moffatt-Bruce SD. Surgical clinical correlates in anatomy: implementation of a first-year medical student program. The Ohio State University Medical Center, Department of Surgery Research Day, Columbus, Ohio, May 22, 2009.

Kwiatkowski P. Animal models of heart failure. The Ohio State University Medical Center, Weekly Scientific Conference, Stem Cell Therapy Group, Columbus, Ohio, May 14, 2009.

Kwiatkowski P. Novel large-animal model of heart failure. The Ohio State University Medical Center, Research in Progress, Columbus, Ohio, June 26, 2009.

Kwiatkowski P. A novel model for pathology and treatment of congestive heart failure. The Ohio State University Medical Center, Trends: Tradition and Progress, Columbus, Ohio, June 6–7, 2009.

Lee DS, Steinbaugh GE, Pfeiffer DR, Zweier JL, Crestanello JA. Ischemic preconditioning selectively protects subsarcolemmal mitochondrial respiration against ischemic injury. The Ohio State University Medical Center, Third Annual Dorothy M. Davis Heart and Lung Research Institute Research Retreat, Columbus, Ohio, October 28, 2008.

Lee D, Steinbaugh G, Zweier JL, Crestanello JA. Short cycle ischemic preconditioning induces potent cardioprotection and is more suitable for clinical application than classical ischemic preconditioning. The Ohio State University Medical Center, Third Annual Dorothy M. Davis Heart and Lung Research Institute Research Retreat, Columbus, Ohio, October 28, 2008.


Moffatt-Bruce SD. Comparative mutational profiling in lung cancer: the standard of care? Scioto County Medical Society, Southern Ohio Medical Center, Portsmouth, Ohio, October 17, 2008.

Moffatt-Bruce SD. The immunobiology of photodynamic therapy: potential for therapeutic intervention in lung cancer. The Ohio State University Comprehensive Cancer Center, Annual Scientific Meeting, Columbus, Ohio, February 20, 2009.

Moffatt-Bruce SD. Lung transplantation: update. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Nursing Department, Columbus, Ohio, September 29, 2008.
Moffatt-Bruce SD, Ross P. Photodynamic therapy: clinical update and current research. The Ohio State University Medical Center, Surgery Grand Rounds, Columbus, Ohio, January 22, 2009.

Parthasarathy, S. Cell biology seminar. The Cleveland Clinic, Cleveland, Ohio, May 8, 2009.

Parthasarathy S. Coronary artery disease and heart failure. The Ohio State University Medical Center, Heart Failure, Columbus, Ohio, November 21, 2008.


Sai-Sudhakar CB. Current and future VAD technologies: chronic and acute treatments. The Ohio State University Medical Center, Trends: Tradition and Progress, Columbus, Ohio, June 7, 2009.

Sai-Sudhakar CB. Progress in surgery for aortic stenosis. The Ohio State University Medical Center, Imagine 2008: Cardiovascular Imaging for the Practitioner, Columbus, Ohio, October 24, 2008.


Sirak J. A novel verification technique in a totally thoracoscopic procedure for atrial fibrillation. Mary Rutan Hospital, Bellefontaine, Ohio, March 2, 2009.

Sirak J. Surgery for atrial fibrillation: when is this appropriate? The Ohio State University Medical Center, Imagine 2008: Cardiovascular Imaging for the Practitioner, Columbus, Ohio, October 24, 2008.

Steinbaugh GE, Lee DS, Pfeiffer DR, Zweier JL, Crestanello JA. Ischemic preconditioning protects mitochondrial respiratory function in complex I and complex II. The Ohio State University Medical Center, Third Annual Dorothy M. Davis Heart and Lung Research Institute, Research Retreat, Columbus, Ohio, October 28, 2008.

Steinbaugh G, Lee DS, Zweier J, Crestanello JA. Ischemic preconditioning reduces reactive oxygen species produced in rat heart mitochondria. The Ohio State University Medical Center, Eighth Annual Research Day, Columbus, Ohio, April 2, 2009.

Sun BS. Cardiac transplantation and LVAD’s. The Ohio State University Medical Center, Current Concepts in Electrophysiology for Advanced Practice Nurses and Allied Health Professionals, Columbus, Ohio, September 12, 2008.

Sun BC. Heart transplant center volume: does size matter for quality outcomes? The Cleveland Clinic, Treatment of Cardiovascular Disease: Legacy and Innovation, Cleveland, Ohio, June 3, 2009.

Sun BC. LVAD’s. Ohio Chapter of the American College of Cardiology, 18th Annual Meeting, Columbus, Ohio, October 18, 2008.

Vaida A. Heart murmurs and chest pain. The Ohio State University Medical Center, Med III Lecture, Columbus, Ohio, July 28, 2008.

Vaida A. Heart murmurs and chest pain. The Ohio State University Medical Center, Med III Lecture, Columbus, Ohio, September 22, 2008.

Vaida A. Hyperhydrosis and sympathectomy. The Ohio State University Medical Center, Fellows Education Meeting, Columbus, Ohio, September 18, 2008.

Vaida A. Trauma. Blunt chest trauma. Penetrating chest trauma. Flail chest pulmonary contusion injuries. The Ohio State University Medical Center, Fellows Education Meeting, Columbus, Ohio, July 24, 2008.


Vesco PA. Update on minimally invasive and robotic cardiac surgery. Southeastern Ohio Regional Medical Center, Internal Medicine Grand Rounds, Cambridge, Ohio, October 15, 2008.
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, and burns and developing an acute care surgery program. This year brought an increase in the number of our faculty and the continued growth of clinical volume and scholarly activity.

This year, the division appointed two new faculty members, Dr. Stanislaw Stawicki and Dr. Melissa Whitmill. Dr. Stawicki received his medical degree at the University of Louisville, in Louisville, Ky., and completed his surgery residency at St. Luke’s Hospital and Health Network, in Bethlehem, Pa. He joined us following a trauma and surgical critical care fellowship at the University of Pennsylvania, in Philadelphia, under the tutelage of Dr. C. William Schwab. Dr. Stawicki’s clinical research interests are trauma, critical care, and patient safety. Dr. Whitmill received her medical degree and completed her general surgery residency at Wright State University, in Dayton, Ohio. She joined our division after a surgical critical care fellowship at Henry Ford Hospital, in Detroit, Mich., with Dr. H. Mathilda Horst. Dr. Whitmill’s interests are trauma, critical care, and education. Additionally, we have succeeded in recruiting an associate burn director, Dr. Brian Porshinsky, who will join our faculty in July 2009, after he completes his surgical critical care fellowship at The Ohio State University Medical Center.

As a division, there were a number of notable accomplishments this year. The Burn Center, under the direction of Dr. Sidney Miller, was verified by the American College of Surgeons Committee on Trauma and the American Burn Association as a verified adult burn center. This gives Ohio State’s Medical Center the only verified adult burn center in Central Ohio. Dr. David Lindsey received a Department of Surgery Teaching Award, as voted by the Surgery house staff. Dr. Whitmill received the Department of Emergency Medicine’s Outstanding Teaching Award, as chosen by their residents. Heather Ratliff, R.N., C.N.P., one of our nurse practitioners, received the Department of Surgery’s Nurse of the Year Award, in recognition of her fine efforts on behalf of our patients and her superb support of the resi-
students and our programs. In addition to other duties, Dr. Steven Steinberg assumed the position of associate chief medical officer for patient safety for The Ohio State University Health System.

The surgical critical care fellowship received approval from the Accreditation Council for Graduate Medical Education to expand the program complement to four residents, and each position was filled this year. Of the fellows who completed their training, Dr. Amy Jarvis and Dr. Cecilia Wang entered practice at St. Francis Hospital, in Tulsa, Okla., as part of a new acute care surgery program. Dr. Brian Porshinsky will join our faculty as associate burn director. Dr. Andrew Crockett will return to the general surgery program as a PGY-4 resident, and has expressed interest in pursuing burn surgery as a career. Dr. Mark Prosciak also completed the fellowship this year.

The Critical Care Signature Program, of which our division is a key member, continues to progress. A new system-wide critical care quality committee, with Dr. Steinberg as co-chair, meets monthly. A community advisory board has been established and meets regularly. The two groups have provided the signature program leadership with excellent advice and direction.

The Trauma Program, under the leadership of Dr. Steinberg, continues to show an increase in activity, with more than 2,200 trauma admissions in 2008, reflecting a three percent increase over the previous year. Over the past five years, the trauma program has grown 26 percent. Of the patients admitted, 23 percent had a moderate to severe Injury Severity Score, and 45 percent required at least one operative procedure. Of patients who arrived by EMS, 41 percent transferred from outside hospitals, and 59 percent of the patients came directly from the scene of injury. The division has assumed management of approximately 60 percent of all emergency general surgery clinical volume. Members of the division performed 2,994 emergency general surgery procedures. We also continued to deliver the general surgery care for the prison population. Patient satisfaction for the division is 84 percent.

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

Dr. Charles H. Cook continues his research in cytomegalovirus (CMV) infections and bacterial sepsis during critical illness. His laboratory is focusing on how cytomegalovirus reactivation causes lung injury in immunocompetent patients. In addition to his CMV work in critical care, Dr. Cook completed a second R01 grant studying the immunobiology of murine allograft acceptance. The focus of the grant was to determine which events lead to allograft acceptance and the role CMV may play in disrupting this acceptance. In addition to his research pursuits, Dr. Cook remains active in the care of injured and critically ill patients, and he continues to serve as medical director of the Surgical Intensive Care Unit.

Dr. David Lindsey completed his second year in the division this year. As noted above, he received a Department of Surgery Teaching Award, as voted by the surgical house staff, for excellence in teaching and dedication to surgical education. Dr. Lindsey is currently organizing the cardiovascular mortality reduction project at the Medical Center. He recently became an Advanced Trauma Life Support trauma course director and was appointed as a member of the Ohio Committee on Trauma of the American College of Surgeons. Dr. Lindsey is active in the care of injured and critically ill patients.
Dr. Sidney Miller, director of the Burn Center at Ohio State, is an authority on burn care and serves in many local and national leadership roles. He is a member of the board of trustees of the American Burn Association, which he currently serves as its president-elect. Dr. Miller sits on the editorial boards of the *Journal of Burns* and the *Journal of Burn Care and Rehabilitation*. He serves on the Trauma Committee of the Ohio Department of Public Safety Emergency Medical Services Board and on the Interagency Response Group of the Ohio Department of Homeland Security. Dr. Miller was a member of the Committee on Trauma of the American College of Surgeons for 18 years, as vice chair and chair of the Ohio State Committee on Trauma and as its region chief for Region V. He is a member of the external review panel for the Department of Defense Combat Casualty Care Program. The program is developing new and improved methods of evaluating and treating injured military personnel, which 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. The burn program at Ohio State was established under the direction of Dr. Miller. In addition to providing patient care, the program 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 Burn Center at Ohio State. As noted above, the Burn Center was verified by the American College of Surgeons Committee on Trauma and the American Burn Association as a verified adult burn center.

Dr. Stanislaw Stawicki joined the division in July 2008. He was the principal organizer of the First Annual Scientific and Board Meeting of the OPUS 12 Foundation, Inc., of Bethlehem, Pa., February 3–5, 2009. He is participating on several Medical Center committees: the Trauma Bay Reorganization Task Force, the Interdisciplinary Sentinel Event Committee-Wrong Site Surgery Task Force, and the Trauma Radiology Improvement Task Force. He has published 16 scientific manuscripts and is performing three IRB-approved studies. His research this year resulted in six podium and poster presentations at regional and national meetings.

Dr. Steven Steinberg is chief of the Division of Critical Care, Trauma, and Burn and a member of the board and the clinical trauma committee of Central Ohio Trauma Systems. At the Medical Center, Dr. Steinberg has been appointed associate chief medical officer for patient safety. He serves as chair of the Clinical Patient Safety Committee and the University Hospital Operating Room Committee, and is a member of the Physicians Executive Council, the Health System Operating Room Coordinating Committee, the Leadership Council for Clinical Quality and Safety, and the Medical Staff Officers Group. He is an editorial board member of *Selected Readings in General Surgery*. Dr. Steinberg continues to be active in surgical education and critical care.

Dr. Yalaunda Thomas completed her third year in the division this year. In addition to delivering excellent clinical care, Dr. Thomas has participated in a number of national organizations, including the Eastern Association for the Surgery of Trauma, for which she sits on the Mild Traumatic Brain Injury Management Guidelines Committee, and the Society of Black Academic Surgeons. She participated in the Fourth Annual Society of Black Academic Surgeons Leadership Institute in April 2009. She was appointed as an associate member of the American College of Surgeons Regional Committee on Trauma in June 2009.
Dr. Melissa Whitmill joined the division in August 2008. She was the faculty recipient of the 2009 Outstanding Teaching Contribution Award from the Department of Emergency Medicine, for teaching and mentoring the emergency medicine residents. She has taken on many assignments to help reorganize the division's educational offerings.

Rebecca Coffey, R.N., C.N.P., burn nurse practitioner, serves on the Nursing Research Executive Council (NREC), and is also co-leader of the wound care practice group, a subgroup of the NREC. This year, she provided educational outreach to emergency medical services, referring hospitals, and emergency departments.

Heather Ratliff, R.N., M.S., C.N.P., nurse practitioner, is a member of the recently established Nurse Practitioner Council. She has been accepted onto the Committee on Quality and Safety of the hospital-wide Shared Governance Council. She was awarded the Surgical Nurse of the Year Award by the chief residents in general surgery, for exemplary dedication to the care of surgical patients.

Susan Yeager, M.S., R.N., C.C.R.N., A.C.N.P., nurse practitioner, was selected to become a nurse member of the Eastern Association for the Surgery of Trauma. She represented Ohio State’s Medical Center at the first annual, national Nurse Practitioner Forum, in Rochester, N.Y. She was chosen to participate in the Acute Care Nurse Practitioner Practice Analysis Task Force and to review Circle of Excellence Award abstracts for the American Association of Critical Care Nurses. For the Neurocritical Care Society, she was selected as the first nurse committee member for the Annual Meeting Committee and was chosen to moderate the session “Neurocritical Care in the Emergency Department.” She also was asked to be an abstract reviewer for the society’s annual meeting. She chaired the society’s recently-formed nursing committee and presented at the nursing forum. Within the state of Ohio, she continues her involvement with the American Academy of Nurse Practitioners by remaining an active member of the Schedule II Narcotics Task Force. She also was selected to be a part of the Advanced Practice Nurse Committee for the hospital-wide Shared Governance Council.
Faculty

**Steven M. Steinberg, M.D.**
Professor of Surgery; Vice Chairman for Clinical Affairs, Department of Surgery; Chief, Division of Critical Care, Trauma, and Burn  
B.Sc.: The Ohio State University, Columbus, Ohio, 1975  
M.D.: The Ohio State University, Columbus, Ohio, 1978  
**Specialty Training:** The Ohio State University, Columbus, Ohio  
**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

**Charles H. Cook, M.D.**
Associate Professor of Surgery; Medical Director, Surgical Critical Care  
B.S.: Pennsylvania State University, University Park, Pa., 1987  
M.D.: The Ohio State University, Columbus, Ohio, 1991  
**Specialty Training:** The Ohio State University, Columbus, Ohio  
**Appointment:** 1997  
**Specialty Interests:** Critical care, laparoscopy  
**Research Interests:** Surgical outcomes, surgical infectious disease

**David E. Lindsey, M.D.**
Assistant Professor of Clinical Surgery  
B.S.: The Ohio State University, Columbus, Ohio, 1972  
M.D.: The Ohio State University, Columbus, Ohio, 1976  
**Specialty Training:** Stanford University Hospital, Stanford, Calif.; University of California-Davis, Sacramento, Calif.  
**Appointment:** 2007  
**Specialty Interests:** Critical care, cardiovascular critical care, trauma

**Sidney F. Miller, M.D.**
Professor of Surgery; Director, Burn Center, The Ohio State University Medical Center  
B.A.: Indiana University, Bloomington, Ind., 1965  
M.D.: Indiana University School of Medicine, Indianapolis, Ind., 1968  
**Specialty Training:** Miami Valley Hospital, Dayton, Ohio  
**Appointment:** 2006  
**Specialty Interests:** Burns  
**Research Interests:** Wound healing
Stanislaw P. Stawicki, M.D.
Assistant Professor of Surgery
B.A.: University of Louisville, Louisville, Ky., 1997
M.D.: 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

Yalaunda M. Thomas, M.D.
Assistant Professor of Surgery
B.S.: Wake Forest University, Winston-Salem, N.C., 1995
M.D.: University of North Carolina, Chapel Hill, N.C., 2000
Specialty Training: University of Illinois at Chicago, Chicago, Ill.; University of Maryland Medical System, Baltimore, Md.
Appointment: 2006
Specialty Interests: Critical care, trauma, general surgery
Research Interests: Trauma, critical care

Melissa L. Whitmill, M.D.
Assistant Professor of Clinical Surgery
B.S.: Columbia Union College, Takoma Park, Md., 1995
M.D.: Wright State University, Dayton, Ohio, 2001
Specialty Training: Residency in general surgery, Wright State University, Dayton, Ohio; fellowship in surgical critical care, Henry Ford Hospital, Detroit, Mich.
Appointment: 2008
Specialty Interests: Trauma, surgical critical care, emergency surgery

Resident Staff

Andrew O. Crockett, M.D.
Surgical Critical Care Fellow
B.S.: University of Utah, Salt Lake City, Utah, 2001
M.D.: University of Utah, Salt Lake City, Utah, 2005
Amy M. Jarvis, M.D.
Surgical Critical Care Fellow
B.A.: Miami University, Oxford, Ohio, 1997
M.D.: The Ohio State University, Columbus, Ohio, 2001

Brian S. Porshinsky, M.D.
Surgical Critical Care Fellow
B.A.: The Ohio State University, Columbus, Ohio, 1991
M.D.: Medical College of Ohio, Toledo, Ohio, 1999

Mark P. Prosciak, M.D.
Surgical Critical Care Fellow
B.A.: University of Calgary, Calgary, Alberta, Canada, 1990
M.A.: Gonzaga University, Spokane, Wash., 1995
M.D.: St. George’s University, St. George’s, Grenada, 2001

Cecilia F. Wang, M.D., M.S.
Surgical Critical Care Fellow
B.S.: University of Maryland, College Park, Md., 1993
M.D.: Saba University, Saba, Netherlands Antilles, 2002

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

• Cytomegalovirus infections and bacterial sepsis.

• Missed billing opportunities in the surgical intensive care unit.

• Splenic and pancreaticoduodenal trauma.

• Screening for lower extremity deep venous thrombosis in trauma patients.

• Management of new onset atrial fibrillation in non-cardiac surgery ICU patients.
• Glycemic control in ICU patients.

• A review of hunting accidents.

• A survey of the use of digital rectal examination in trauma evaluation.

• Evaluation of blind bronchoalveolar lavage in the diagnosis of ventilator-associated pneumonia.

• Assessment of renal function by equation.

• Impact of RAS scoring on use of sedation in the SICU.

• A multicenter study of the efficacy of SOAR: a peer-support program for burn survivors and their support persons (University of Kentucky).

• Use of fresh frozen plasma and the West Penn formula versus crystalloid and the Parkland formula for resuscitation of major burns: a retrospective review.

• Increasing nurses’ knowledge and ability to teach about burn prevention: a multicenter study (University of Louisville).

• Comparison of burn severity and patient outcomes to the subsets of mesenchymal stem cells identified in the blood of burn victims.

• Evaluation of early glycemic control in critically ill burn patients.

• Electrical burns and the development of post-traumatic stress disorder and associated psychological sequelae: a retrospective study.

• Toxic epidermal necrolysis and SCORTEN: an Ohio State University Medical Center experience.

• Percutaneous peritoneal decompression and abdominal compartment syndrome: a prospective, randomized multi-institutional study (University of Iowa).

• 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.
Accomplishments in Research

• Publication of 34 scholarly articles and abstracts by division faculty and staff.
• Presentation of 22 presentations at international and national meetings by division faculty and staff.
• The division broadened its clinical research meetings to include pharmacy, dietary, and nursing.

Active Research Grants


Clinical Programs

• Surgical critical care, trauma, burn, and emergency surgery services.

Accomplishments in Clinical Care

• Assumed the care of the majority of emergency general surgery patients.
• Initiated daily multidisciplinary rounds.
• Developed a number of new patient care guidelines and protocols, including a massive transfusion protocol and a cervical spine clearance protocol.
• Instituted a General Surgery Prison Telemedicine Clinic in May 2009. The clinic reduces prison transportation and personnel costs and provides improved continuity of care for preoperative and postoperative prisoners.
Clinical Statistics

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<tbody>
<tr>
<td>OR Procedures</td>
<td>3,437</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>1,901</td>
</tr>
<tr>
<td>Admissions</td>
<td>14,488</td>
</tr>
<tr>
<td>Patient Days</td>
<td>10,851</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>7.36</td>
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Educational Programs

- Fully-accredited fellowship in surgical critical care.

Accomplishments in Education

- Completion of the surgical critical care fellowship by Dr. Andrew Crockett, Dr. Amy Jarvis, Dr. Brian Porshinsky, and Dr. Cecilia Wang. Dr. Mark Prosciak completed the surgical critical care fellowship October 1, 2007 – September 30, 2008.

- Dr. David Lindsey received a Department of Surgery Teaching Award, as voted by the Surgery residents.

- Dr. Melissa Whitmill received the Department of Emergency Medicine’s Outstanding Teaching Award, as voted by the department’s residents.

Community Outreach Programs

- Trauma injury prevention.

- Burn outreach.

- Trauma outreach.

- Local Heroes Day.
Accomplishments in Community Outreach

• The Second Annual OSUMC Burn Center Family Burn Camp, under the direction of Dr. Sidney Miller, was held August 15–17, 2008, at Camp Joy, in Clarksville, Ohio. The camp brings together former burn patients and their families for a weekend of camping and team building.

• The OSUMC burn team, under the direction of Dr. Sidney Miller, participated in the first Emergency Day program at COSI (Center of Science and Industry) on October 18, 2008. The program was designed to educate the general public about disaster preparedness, common childhood and household emergencies, and injury prevention and management. The burn team provided hands-on learning stations on burn depth and injury severity, airway breathing and circulation, burn wound care, rehabilitation, burn prevention, and a simulation of a burn operating room.

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

Publications


Abstracts


**Visiting Professorships**


Steinberg SM. Hemodynamic management of critically ill patients. University of Wisconsin, Department of Surgery, Madison, Wis., October 3, 2008.

**International Presentations**


Miller SF, Brandeberry A, Coffey R. C-reactive protein as an early indicator of septicemia in acute burn patients (poster presentation). International Society for Burn Injuries, 14th Congress, Montreal, Canada, September 7–11, 2008.


National Presentations


Miscellaneous Presentations

Betz S. The shock of trauma. Shock Trauma at the 'Shoe, Physicians, Nurses, and EMS Providers, Columbus, Ohio, September 17, 2008.

Betz S. Surviving the fear factor of trauma. EMS Outreach Series, Emergency Nurses and EMS Providers, Lancaster, Ohio, February 18, 2009.

Betz S. Trauma 101. Capital University Senior Nursing Students, Columbus, Ohio, March 4, 2009.

Betz S. Trauma 101. Mount Carmel Senior Nursing Students, Columbus, Ohio, April 29, 2009.

Betz S. Trauma case review: primary and secondary assessment. The Ohio State University Medical Center, Quest for Excellence, Nurses, Columbus, Ohio, September 22, 2008.
Coffey R. Burn in-service. Alliance of Ohio Trauma Registrars, Columbus, Ohio, October 3, 2008.

Coffey R. Burn wound care. The Ohio State University Medical Center, Dodd Hall Staff, Columbus, Ohio, June 2, 4, 11, 2009.

Coffey R. EMS refresher course. Union County EMT, Delaware, Ohio, September 25, 2008.


Coffey R. Outpatient burn care. Smith Clinic and local health departments, Delaware, Ohio, May 28, 2009.

Coffey R. Overview of the burn patient. The Ohio State University, College of Nursing, NP Nursing Students, Columbus, Ohio, July 29, 2008.


Coffey R, Betz S. Emergent burn care. The Ohio State University Medical Center, Trauma Tactics, ED, ICU, and OR Nursing Staff, Columbus, Ohio, August 13, 2008.

Coffey R, Betz S. Initial care of the burn patient. The Ohio State University Medical Center, Trauma Tactics, Emergency Department, ICU, and OR Nursing Staff, Columbus, Ohio, April 8, 2009.

Coffey R, Betz S. Initial care of the burn patient. The Ohio State University Medical Center, Trauma Tactics, Emergency Department, Nursing Staff, Columbus, Ohio, May 14, 2009.
Coffey R, Betz S. Initial care of the burn patient. The Ohio State University Medical Center, Trauma Tactics, Emergency Department, Nursing Staff, Columbus, Ohio, June 10, 2009.


Coffey R, Betz S, Stewart T. Emergency burn care. The Ohio State University Medical Center, Trauma Tactics, ED, ICU, and OR Nursing Staff, Columbus, Ohio, October 8, 2008.

Coffey R, Betz S, Stewart T. Initial care of the burn patient. The Ohio State University Medical Center, Trauma Tactics, ED, ICU, and OR Nursing Staff, Columbus, Ohio, February 11, 2009.

Coffey R, Betz S, Stewart T. Trauma tactics. Grant Medical Center, ED, ICU, and OR Nursing Staff, Columbus, Ohio, December 10, 2008.

Coffey R, Casavant C, Parks J, Harper C. Burn Prevention Week outreach. The Ohio State University, Columbus, Ohio, February 4, 2009.


Coffey R, Kulesick J, Casavant C, Betz S, Stewart T, Yeager S. ED skills: burn and trauma. The Ohio State University Medical Center, Emergency Department Nursing Staff, Columbus, Ohio, March 5, 17, 24; April 7, 17, 2009.

Coffey R, Lewis J, Biller J. Burn prevention. Violet Township, Families and Local Community, Columbus, Ohio, October 12, 2008.

Coffey R, Schooley S, Kulisek J, Harper C, Parks J, Lehman J, Duzak J, Thomas S, Dahman J. The Ohio State University Medical Center, Burn Nursing Orientation Class, SICU, 9W Doan Burn Staff, Columbus, Ohio, February 10, 2009.

Cook CH. Current topics in critical care. The Ohio State University Medical Center, Department of Anesthesiology Grand Rounds, Columbus, Ohio, October 9, 2008.

Cook CH. Cytomegalovirus reactivation and allograft acceptance: lessons learned from the lab. The Ohio State University Medical Center, Comprehensive Transplant Center Seminar, Columbus, Ohio, December 17, 2008.


Kulisek J, Miller SF, Coffey R. ABLS: course instructor. Nationwide Children’s Hospital, Physicians, Nurses, EMT’s Columbus, Ohio, September 3, 2008.

Lindsey DE. Blunt and penetrating traumas to the chest. The Ohio State University Medical Center, Current Concepts in Respiratory Care, Columbus, Ohio, April 30, 2009.

Lindsey DE (Invited Moderator). Surgical critical care. The Ohio State University Medical Center, Professor Conferences for PGY4’s and PGY5’s, Columbus, Ohio, June 11, 2009.

Lindsey DE (Invited Moderator). Trauma and emergency care. The Ohio State University Medical Center, Professor Conferences for PGY4’s and PGY5’s, Columbus, Ohio, April 16, 2009.

Miller SF. Advanced Burn Life Support course. Nationwide Children’s Hospital, Columbus, Ohio, September 4, 2008.

Miller SF. Advanced Burn Life Support course. The Ohio State University Medical Center, Columbus, Ohio, October 30, 2008.

Miller SF. Advanced Trauma Life Support course. Central Ohio Trauma System, Columbus, Ohio, July 17–18, 2008.

Miller SF. Advanced Trauma Life Support course. Central Ohio Trauma System, Columbus, Ohio, February 27–28, 2009.

Miller SF. Anatomy dissections for medical students. The Ohio State University Medical Center, Columbus, Ohio, August 25, 2008.

Miller SF. Burns. The Ohio State University Medical Center, Basic Science Lecture for PGY1–PGY3, Columbus, Ohio, January 8, 2009.

Miller SF. Burns. The Ohio State University Medical Center, MSIII Study Session, Columbus, Ohio, August 11, 2008.

Miller SF. Burns. The Ohio State University Medical Center, MSIII Study Session, Columbus, Ohio, April 6, 2009.
Miller SF. Burns in the workplace: from coffee to tar to electrocution. Ohio Safety Congress and Expo, Columbus, Ohio, April 1, 2009.

Miller SF. Care of the burn patient. The Ohio State University Medical Center, Senior Elective Course in Therapeutics, Columbus, Ohio, March 16, 2009.

Miller SF. Electrical, chemical, and atypical burns. Union County Emergency Services Association and The Ohio State University Center for Emergency Medical Services, Annual Emergency Medical Services Conference, Marysville, Ohio, November 15, 2008.

Miller SF. Something about silver. The Ohio State University Medical Center, Burn Center Quarterly Burn Education Dinner, Columbus, Ohio, December 10, 2008.

Miller SF. Suturing. The Ohio State University Medical Center, Clinical Skills Immersion Lecture, Columbus, Ohio, August 21, 2008.

Miller SF. Suturing. The Ohio State University Medical Center, Clinical Skills Immersion Lecture, Columbus, Ohio, February 19, 2009.

Miller SF, Coffey R, Schooley S, Popp S, Hanna S, Kent M. Advanced Burn Life Support course. The Ohio State University Medical Center, Columbus, Ohio, June 24, 2009.

Stawicki SP (Invited Podium Presenter). What's new in intensivist ultrasonography? The Ohio State University Medical Center; Pulmonary, Allergy, Critical Care and Sleep Medicine, Third Annual Research Day, Columbus, Ohio, September 19, 2008.

Stawicki SP (Invited Speaker). Postmortem use of advanced imaging techniques: is autopsy going digital? The Ohio State University Medical Center, Department of Surgery, Grand Rounds, Columbus, Ohio, November 13, 2008.

Steinberg SM. Preventing surgical complications. Marietta Memorial Hospital, Continuing Medical Education, Marietta, Ohio, April 2, 2009.

Stewart T. Chest trauma. Pike Community Hospital, Emergency Department Nurses and Emergency Medical Service, Waverly, Ohio, February 26, 2009.

Thomas YM. Penetrating trauma: cases and management issues. Greene Memorial Hospital, Third Annual Regional Trauma Symposium, Xenia, Ohio, October 22, 2008.

Thomas YM. Trauma and the ICU. The Ohio State University Medical Center, SICU Education Committee Lunch and Learn, Columbus, Ohio, April 16, 2009.

Thomas YM. Trauma case review: mechanisms and management issues. The Ohio State University Medical Center, Nursing Trauma Case Review, Columbus, Ohio, September, 24–25, 2008.

Yeager S. Endpoints of resuscitation. The Ohio State University Medical Center, Advanced Trauma Tactics, Columbus, Ohio, February 18, 2009.

Yeager S. Traumatic brain injury. The Ohio State University Medical Center, Advanced Trauma Tactics, Columbus, Ohio, February 18, 2009.
The Division of General and Gastrointestinal Surgery is committed to excellence in education, training, research, and clinical care in 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, endolumenal and minimally invasive surgery, bariatric surgery, surgical endoscopy, and the treatment of malignant disease of the gastrointestinal tract, including pancreatic and esophageal cancer.

We have expanded the colorectal surgery program, adding two new faculty members during the past two years. This has allowed for continued growth in the type and number of colorectal treatment options offered at The Ohio State University Medical Center. This year, our team performed the first colorectal case at Ohio State’s Medical Center to use the da Vinci robotic surgery system. Dr. Mark Arnold, Dr. Alan Harzman, and Dr. Syed Husain continue their work with the rotating colorectal fellows from Grant Medical Center. While at Ohio State, the fellows focus on advanced minimally invasive colorectal treatments, as well as advanced anorectal surgical cases. Our specialists are all board-certified in colorectal surgery and dedicate their expertise to the treatment of colorectal cancers and benign diseases.

The Ohio State University Comprehensive Weight Management and Bariatric Surgery Program experienced another year of growth and expansion under the leadership of our physicians. The bariatric surgery program offers a variety of weight loss options tailored to the individual patient, including various gastric banding procedures, Roux-en-Y gastric bypass, and single-incision surgery. This year,
the program relocated to the Martha Morehouse Medical Plaza. The move to this location allows us to offer comprehensive care in a multi-specialty clinical location. Now patients have a “one-stop-shop” option when considering bariatric surgery. Patients can have labs drawn, meet with a dietitian, and see their surgeon, all in one setting. This has allowed us to increase our surgical volume this year to more than 300 bariatric cases, making us the largest bariatric surgery program in Central Ohio.

Since 2007, the surgeons in our division have advanced the options in minimally invasive surgery for our patients. The expanding field of natural orifice translumenal endoscopic surgery (NOTES) first gained a foothold at Ohio State. Researchers continue to investigate the possibilities of truly incisionless surgery, to reduce the trauma associated with many intra-abdominal surgical procedures. We were the first clinical site to have an approved protocol to investigate NOTES and how procedures using this technique can be safe and effective. From this work, our division published the world’s first journal article reporting the human trial data obtained. This year, under the direction of Dr. Jeffrey Hazey, Ohio State was the first medical center to perform a NOTES procedure in a Food and Drug Administration (FDA)-approved clinical trial.

In basic and translational science research, Chandan Sen, Ph.D., director of the Comprehensive Wound Center and vice chairman for research in the Department of Surgery, is principal investigator for three active National Institutes of Health (NIH) research projects with total funding exceeding $3.5 million. Dr. Sen also serves as associate dean for translational and applied research in the College of Medicine and leads the Medical Center’s Technology Commercialization and Industry Partnership programs. The primary focus of his laboratory is the study of tissue injury, repair, remodeling, and survival. Dr. Sen served as chair of the session on genetics in wound healing at the 2009 Gordon Research Conference on Tissue Repair. He was named as a permanent member of the National Institutes of Health Surgery, Anesthesia, and Trauma Study Section in 2009. Dr. Sen presented the Van Lierre lecture at the Robert C. Byrd Health Sciences Center of West Virginia University, in Morgantown, W.Va., where he was the chief guest at the center’s 2009 research day and convocation. Dr. Sen, executive director of the Comprehensive Wound Center, has established a clinical wound-healing program with Dr. Richard Schlanger. The clinical studies are based in the wound clinic at University Hospital East, where Dr. Schlanger collaborates with the Sen team to execute the clinical work. Dr. Sen serves on the board of directors of the Wound Healing Society. He is editor-in-chief of the international peer-reviewed journal Antioxidants & Redox Signaling, which has an impact factor of 6.2 and ranks number one in the field. Dr. Sen serves as associate editor of Physiological Genomics, a journal of the American Physiological Society. In addition, he serves on the editorial boards of six other journals and as a peer reviewer for more than 25 major journals. Dr. Sen is program director of the Novel Clinical and Translational Methodologies Program of the Ohio State Center for Clinical and Translational Science (CCTS). The CCTS was recently awarded an NIH Clinical and Translational Science Award (CTSA) grant of $34.1 million. Dr. Sen also serves as a voting member of the NIH’s national CTSA Public-Private Partnership Steering Committee. In 2009, he was designated as an NIH Champion of Change for The Ohio State University.

Dr. 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 Medi-
Dr. Scott Melvin is chief of the division and director of the Center for Minimally Invasive Surgery. His clinical practice focuses on advanced minimally invasive surgical treatments for gastroesophageal reflux disease and other esophageal disorders, as well as advanced hepatobiliary surgery. In 2008, Dr. Melvin was named vice chairman for academic and administrative affairs in the Department of Surgery. In this role, he mentors the department's junior faculty as they develop their academic practice. A recognized mentor of medical students and residents, Dr. Melvin received the Faculty Award from the Landacre Honor Society, the student research society, in recognition of his mentorship in research. Under his mentorship, Dr. Peter Nau, a fellow in advanced gastrointestinal surgical research this year, received a career development grant from the American Hepato-Pancreato-Biliary Association. Dr. Melvin is a member of a variety of local, national, and international societies. He serves as secretary of the Society of American Gastrointestinal and Endoscopic Surgeons and chairs the society's development committee.

Dr. Mark Arnold is vice chairman for surgical education in the Department of Surgery and director of the general surgery residency program, which continues to grow in prestige and volume. Under his direction, the program has grown to 55 residents, graduating five per year. Dr. Arnold also participates as an instructor for the colorectal fellowship program. While participating in all levels of education, he maintains a busy clinical practice that focuses on treatment of colorectal diseases and disorders.

Dr. Alan Harzman joined the division in 2007, and since then has built an extremely busy practice. His primary clinical focus is the treatment of colorectal diseases and disorders, and he offers advanced minimally invasive approaches for many of these. Dr. Harzman has quickly become a recognized educator of residents and medical students. In 2007, he received the department’s Faculty Teaching Award as chosen by the general surgery residents, and in 2008, he received the Faculty Teaching Award as chosen by the medical students. Dr. Harzman continues to participate as a faculty instructor for the Colorectal Fellowship Program.

Dr. Jeffrey Hazey continues to be a recognized national leader in the areas of surgical endoscopy and NOTES. His clinical practice focuses on advanced therapeutic endoscopy, including ERCP, and advanced minimally invasive surgical procedures. Under his direction, this was the third year for the Fellowship in Advanced Therapeutic Endoscopy and Gastrointestinal Surgery. Dr. Hazey is a committed educator, both within the Medical Center, where he trains medical students, residents, and practicing physicians in continuing medical education courses, and at the national level. This year, he was an invited speaker at a number of national and international meetings, and he was chosen by the Society of Gastrointestinal and Endoscopic Surgeons to participate in the training of surgical teams in Cape Verde, South Africa. Dr. Hazey continues to obtain extramural funding for NOTES-related research, and he is
currently the principal investigator for the world’s first FDA-approved clinical trial of NOTES technology.

Dr. Syed Husain joined our division in August 2008. Prior to his appointment, Dr. Husain completed fellowships in colorectal surgery and minimally invasive surgery. This training makes him uniquely qualified to offer the most advanced surgical treatment options for colorectal diseases and disorders. Dr. Husain has an interest in robotic surgical treatment options, and in 2009, he completed the first robotic-assisted colorectal procedure using the da Vinci system at Ohio State’s Medical Center. As his practice continues to grow, we look forward to his participation in our ongoing research and educational endeavors.

Dr. Andrei Manilchuk continues to develop his clinical practice in general surgery. He has participated in various workshops in advanced surgical techniques for colon surgery and for abdominal wall reconstruction. Dr. Manilchuk continues to be a valuable resource for a variety of surgical diseases. He is a recognized teacher of residents and medical students.

Dr. Dean Mikami has been an active member of our division since 2003. His clinical practice focuses on advanced minimally invasive surgery, including laparoscopic bariatric surgery, hernia repair, and a variety of other procedures. An active researcher, Dr. Mikami has ongoing funding to investigate novel treatment options for obesity. He participates in the NOTES research within our division as well. Dr. Mikami is an active member of the surgical community on both national and international levels. In 2008, he was appointed to the Communication and Learning Center Committees of the American Society of Metabolic and Bariatric Society. He is a frequent course instructor at national meetings, lecturing on topics ranging from endolumenal treatment options for obesity to the latest in minimally invasive hernia repair. Dr. Mikami is an active educator of our own medical students and residents, directing courses designed specifically for the surgeon-in-training.

Dr. Peter Muscarella is director of the surgical clerkship for medical students. In this role, he mentors medical students as they pursue careers in the surgical fields. Dr. Muscarella’s clinical practice focuses on advanced hepatobiliary surgery and treatment options for pancreatic disease. He is active on the national scene, and is a member of the Young Surgeons Committee of the American College of Surgeons.

Dr. Vimal Narula continues to maintain a busy clinical practice focusing 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 this year he was appointed to implement the new American College of Surgeons clinical skills curriculum for general surgery residents. He also serves as an instructor for continuing medical education courses offered through the Center for Minimally Invasive Surgery.

Dr. Bradley Needleman continues to serve as director of the Bariatric Surgery Program. Under Dr. Needleman’s guidance, the program experienced significant growth this year. Surgical volume for bariatric surgery continues to grow, and this year he and Dr. Mikami performed more than 300 primary...
bariatric surgery operations. Additionally, Dr. Needleman and the bariatric team have established a multi-modality comprehensive weight management program office. Dr. Needleman is an active member of national societies, and serves on a number of local and national committees.

Dr. Sashwati Roy continues to build a diabetic wound healing program, in partnership with the teams of Dr. Sen and Dr. Melvin. In particular, her program focuses on dead cell recognition and clearance from the chronic wound of diabetics. Dr. Roy is an expert in microarray analyses and data mining in functional genomics, as well as laser capture microdissection. She is a principal investigator for three projects on wound healing. Dr. Roy published six papers in scholarly journals this year, and during her career, she has published more than 150 journal articles and book chapters. She continues to serve on the education committee of the Davis Heart and Lung Research Institute and enjoys working with undergraduates, medical students, and residents interested in the basic science of wound healing.

Dr. Richard Schlanger serves as clinical director of the Wound Healing and Hyperbaric Center, at University Hospital East’s Comprehensive Wound Care Center. He maintains an extremely busy general surgery clinical practice, with a specialty focus on wound healing. Dr. Schlanger is a recognized leader in clinical wound healing research and a frequently-invited speaker at national and international meetings. This year, he traveled to Luxembourg, where he was a guest speaker and moderator at the Pan European Tissue Restoration Society Conference. Dr. Schlanger collaborates with our division’s basic science research program, which specializes in wound care research.

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 this year brought continued expansion of our educational and research endeavors.

At the Center for Minimally Invasive Surgery, surgeons and researchers continue to push the boundaries of current surgical techniques with natural orifice translumenal endoscopic surgery (NOTES). NOTES is the process of performing surgery through naturally existing orifices, thus eliminating the need for external incisions. It is a trend that has been gaining interest in the surgical community. We are focused on continued development of technology and techniques for NOTES, with the hope that someday common surgical procedures can be totally incisionless.

This year, CMIS researchers led by principal investigator Dr. Jeffrey Hazey completed two of the largest series of natural orifice translumenal endoscopic peritoneoscopy procedures in North America: 40 subjects who underwent translumenal endoscopic peritoneoscopy (TEP) prior to gastric bypass surgery; and 20 subjects who underwent TEP prior to surgical treatment for pancreatic head tumor. Dr. Hazey has received several grants to continue his NOTES work. The Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR) has awarded him a grant to continue his NOTES work with the gastric bypass patient population, with a project titled “Feasibility of Diagnostic Translumenal Endoscopic Peritoneoscopy for Abdominal Insufflation, Adhesiolysis, and Trocar Placement in
Patients who Require Laparoscopic Access.” Dr. Hazey has also received a grant from Ethicon Endo-Surgery, Inc., which he will use to investigate gastrotomy closure in patients with pancreatic head tumors who have undergone translumenal endoscopic peritoneoscopy. We are currently enrolling patients to participate in both trials.

Dr. Peter Nau received a grant from the American Hepato-Pancreato-Biliary Association, for his project titled “Development of a Novel Repair for Iatrogenic Common Bile Duct Injuries with a Biosynthetic Graft.” The gold standard repair of a common bile duct defect remains a Roux-en-Y hepaticojejunostomy. This procedure is not without complications, both acute and long-term. Dr. Nau’s project seeks to test a novel approach for repairing common bile duct injuries with a biosynthetic graft, reconstructing the anatomy without an intestinal bypass. Dr. Nau is a third-year resident in general surgery who completed his one-year appointment as a postdoctoral researcher in the Center for Minimally Invasive Surgery on June 30, 2009.

CMIS entered into a research partnership this year with Covidien. As part of this partnership, CMIS investigators will work with Covidien to test surgical devices. In addition, Covidien will sponsor investigator-initiated research, including clinical trials with the bariatric patient population.

This year, CMIS completed an agreement to receive grant funding from Covidien over the next three years to help support its educational and training endeavors. This funding will help support clinical and research fellowship opportunities offered by CMIS and will allow the center to add a variety of structured programs in laparoscopic education to residents, fellows, and medical students. This new funding will also allow the center to offer instruction to surgeons and practicing physicians on a regional, national, and international stage, to teach techniques in minimally invasive surgery using a structured, didactic, practical, and laboratory experience. CMIS will continue to offer new courses focused on emerging technologies and techniques that have recently been introduced to surgeons in the United States, such as NOTES and new endolumenal surgical procedures.

This year brought continued success for many of our annual postgraduate educational courses. Topics this year included transoral incisionless fundoplication (TIF) using the EsophyX device for gastroesophageal reflux disease, endolumenal tissue fusion using the StomaphyX device, laparoscopic hernia repair, advanced technology in NOTES, and our Ninth Annual Advances in Minimally Invasive Surgery. Each program consisted of a combination of live case broadcasts and didactic and laboratory sessions. In August 2008, Ohio State hosted its first Masters in Bariatric Surgery Course, under the direction of Dr. Bradley Needleman, director of Ohio State’s Bariatric Surgery Program. In March 2009, CMIS hosted its first robotic surgery course for urology residents, titled “Urology Resident Preceptorship in Robotic Surgery.” During this two-day program, didactic presentations, procedural video sessions, and live operative case broadcasts were offered. CMIS faculty trained more than 250 surgeons, residents, students, and allied health-care professionals this year in these educational programs.

Ohio State’s Robotic Surgery Training Center continued to be successful this year. More than 129 da Vinci training programs were held at Ohio State, with a total of 134 participants, including surgeons,
nurses, and physician assistants from 20 states and around the world. Programs included training in techniques for general, gynecologic, urologic, and cardiothoracic robotic surgery.

Our minimally invasive surgery training program, a one-year, dedicated experience in advanced laparoscopic surgery, remains a sought-after position. This year, we welcomed three new clinical assistant professors, Dr. Sebastian Demyttenaere, Dr. Brian Winkleman, and Dr. Joel Anderson. Dr. Demyttenaere had a very busy clinical year, completing more than 450 advanced laparoscopic surgery and endoscopy procedures. He participated in a number of research projects that led to multiple publications and a presentation at the national level. Dr. Demyttenaere has returned to Montreal, Canada, where his practice will focus on minimally invasive surgery. Dr. Winkleman was also a very active member of our team this year, completing more than 450 advanced laparoscopic and endoscopic procedures. In addition to his clinical responsibilities, he participated in ongoing research projects. Dr. Winkleman has taken a position with a practice in Chicago, Ill., where he will offer bariatric and other advanced minimally invasive procedures to his patients. Dr. Anderson, who completed our one-year training program in advanced therapeutic endoscopy and gastrointestinal surgery, had an extremely busy clinical year. He completed more than 150 advanced laparoscopic surgeries and more than 300 therapeutic and diagnostic endoscopies, including ERCP’s, and he participated in a number of research projects that led to publications and presentations. Dr. Anderson joined a surgical practice at a Cleveland Clinic affiliate hospital, in Cleveland, Ohio.

The Center’s collaboration with health-care teams at Ohio State’s Medical Center will continue to foster innovation in clinical surgical care, education, and research pertaining to minimally invasive surgery, leading to new techniques and technology and providing the best in patient care in future years.
Faculty

W. Scott Melvin, M.D.
Professor of Surgery; Vice Chairman for Academic Affairs, Department of Surgery; Chief, Division of General and Gastrointestinal Surgery; Director, Center for Minimally Invasive Surgery
B.S.: Ohio Northern University, Ada, Ohio, 1983
M.D.: Medical College of Ohio, Toledo, Ohio, 1987
Specialty Training: University of Maryland, College Park, Md.; Ohio Digestive Disease Institute, Columbus, Ohio
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

Joel B. Anderson, M.D.
Clinical Assistant Professor of Surgery
B.S.: Grand Valley State University, Allendale, Mich., 1999
M.D.: Michigan State University, East Lansing, Mich., 2003
Appointment: 2008
Specialty Interests: Minimally invasive surgery
Research Interests: Minimally invasive surgery

Mark W. Arnold, M.D.
Professor of Clinical Surgery; Vice Chairman for Surgical Education, Department of Surgery
B.A.: University of Virginia, Charlottesville, Va., 1979
M.D.: New York University, New York, N.Y., 1983
Specialty Training: Jackson Memorial Hospital, University of Miami Medical Center, Miami, Fla.; Grant Medical Center, Columbus, Ohio
Appointment: 1990
Specialty Interests: Colon and rectal surgery
Research Interests: Radioimmunoguided antibodies for diagnosis and treatment of colon and rectal cancers
Sebastian V. Demyttenaere, M.D.
Clinical Assistant Professor of Surgery
M.D.: McGill University, Montreal, Quebec, Canada, 2002
M.S.: McGill University, Montreal, Quebec, Canada, 2006
Specialty Training: McGill University Health Centre, Montreal, Quebec, Canada, 2002–2008
Appointment: 2008
Specialty Interests: Minimally invasive surgery
Research Interests: Minimally invasive surgery

E. Christopher Ellison, M.D.
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
B.S.: University of Wisconsin, Madison, Wis., 1972
M.D.: Medical College of Wisconsin, Milwaukee, Wis., 1976
Specialty Training: The Ohio State University, Columbus, Ohio
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, M.D.
Assistant Professor of Clinical Surgery
B.S.: Vanderbilt University, Nashville, Tenn., 1997
M.D.: Washington University, St. Louis, Mo., 2001
Specialty Training: Residency in general surgery, University of Texas Southwestern Medical Center, Dallas, Texas; fellowship in colon and rectal surgery, Baylor University Medical Center, Dallas, Texas
Appointment: 2007
Specialty Interests: General surgery, colon and rectal surgery
Research Interests: General surgery, colon and rectal surgery
Jeffrey W. Hazey, M.D.
Assistant Professor of Surgery

B.A.: Miami University, Oxford, Ohio, 1987
M.D.: Case Western Reserve University, Cleveland, Ohio, 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, Ohio

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, M.D.
Assistant Professor of Clinical Surgery

M.B.B.S.: Dow Medical College, Karachi, Pakistan

Specialty Training: Residency in general surgery, Harlem Hospital Center, New York, N.Y.; fellowship in clinical research, University of Illinois at Chicago; fellowship in minimally invasive surgery, University of Rochester, Rochester, N.Y.; fellowship in colorectal surgery, Brown University, Providence, R.I.

Appointment: 2008

Specialty Interests: Minimally invasive colorectal surgery

Research Interests: Natural orifice transluminal endoscopic surgery (NOTES)

Andrei V. Manilchuk, M.D.
Assistant Professor of Clinical Surgery

M.D.: 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, Ohio

Appointment: 2003

Specialty Interests: Gastrointestinal and pancreatobiliary surgery
Dean J. Mikami, M.D.
Assistant Professor of Surgery
M.D.: University of Kansas, Kansas City, Kan., 1997
Specialty Training: Residency in general surgery and fellowship in minimally invasive surgery, The Ohio State University, Columbus, Ohio
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, M.D.
Associate Professor of Surgery; Director, Surgical Clerkship
B.S.: University of Rochester, Rochester, N.Y., 1989
M.D.: New York Medical College, Valhalla, N.Y., 1993
Specialty Training: Residency in general surgery, The Ohio State University, Columbus, Ohio
Appointment: 2000
Specialty Interests: General surgery, endocrine gastrointestinal disease, liver, pancreas
Research Interests: Pancreatic cancer, pancreatic neuroendocrine tumors

Vimal K. Narula, M.D.
Clinical Assistant Professor of Surgery
B.S.: Marshall University, Huntington, W.Va., 1995
M.D.: Marshall University, Huntington, W.Va., 1999
Specialty Training: Residency in general surgery, Marshall University, Huntington, W.Va.; fellowship in minimally invasive surgery and fellowship in advanced therapeutic endoscopy, The Ohio State University Medical Center, Columbus, Ohio
Appointment: 2006
Specialty Interests: Laparoscopic, foregut, and hepatobiliary surgery
Research Interests: Minimally invasive techniques, robotic surgery, natural orifice translumenal endoscopic surgery (NOTES)
Bradley J. Needleman, M.D.
Assistant Professor of Clinical Surgery; Director, Bariatric Surgery Program
B.A.: Vassar College, Poughkeepsie, N.Y., 1990
M.D.: Mount Sinai School of Medicine, New York, N.Y., 1994
Specialty Training: Residency in general surgery, Washington Hospital Center, Washington, D.C.; fellowship in minimally invasive surgery, The Ohio State University, Columbus, Ohio
Appointment: 2000
Specialty Interests: Advanced laparoscopic surgery, obesity surgery
Research Interests: Minimally invasive surgery, surgical education

Sashwati Roy, Ph.D.
Assistant Professor of Surgery
B.S.: Meerut University, Meerut, India, 1984
M.S.: Meerut University, Meerut, India, 1986
Ph.D.: University of Kuopio, Kuopio, Finland, 1994
Appointment: 2000
Research Interests: Antioxidant and redox biology focusing on signal transduction and gene expression

Richard E. Schlanger, M.D., Ph.D.
Assistant Professor of Clinical Surgery; Director, Center for Wound Management, University Hospital East
M.D.: Faculté de Medicine, Toulouse, France, 1980
Ph.D.: Faculté de Medicine, Toulouse, France, 1982
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 2000
Specialty Interests: General surgery, wound healing
Research Interests: Wound healing
Chandan K. Sen, Ph.D.
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
B.S.: Calcutta University, Calcutta, India, 1987
M.S.: Calcutta University, Calcutta, India, 1990
Ph.D.: 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

Brian J. Winkleman, M.D.
Clinical Assistant Professor of Surgery
B.S.: Indiana University, Bloomington, Ind., 1999
M.D.: Indiana University, Indianapolis, Ind., 2003
Specialty Training: Residency in general surgery, The Ohio State University Medical Center, Columbus, Ohio
Appointment: 2008
Specialty Interests: Minimally invasive surgery
Research Interests: Minimally invasive surgery, duodenal ulcer disease, colorectal cancer screening

Clinical Faculty

Robert E. Falcone, M.D.
Clinical Professor of Surgery
B.A.: Kent State University, Kent, Ohio, 1973
M.D.: The Ohio State University, Columbus, Ohio, 1976

Jeffrey T. Innes, M.D.
Clinical Assistant Professor of Surgery
B.S.: University of California, Davis, Calif., 1976
M.D.: University of California, Davis, Calif., 1980
Bruce A. Kerner, M.D.
Clinical Assistant Professor of Surgery
B.S.: University of Tampa, Tampa, Fla., 1980
M.D.: Chicago Medical School, Chicago, Ill., 1984

Richard C. Rooney, M.D.
Clinical Assistant Professor of Surgery
B.S.: University of Cincinnati, Cincinnati, Ohio, 1964
M.D.: University of Cincinnati, Cincinnati, Ohio, 1967

Thomas T. Vogel, M.D., Ph.D.
Clinical Assistant Professor of Surgery
B.A.: Holy Cross College, 1955
Ph.D.: The Ohio State University, Columbus, Ohio, 1962
M.D.: Georgetown University, Washington, D.C., 1965

Resident Staff

David M. Anderson, M.D.
PGY-1
B.S.: Murray State University, Murray, Ky., 1995
M.S.: University of Louisville, Louisville, Ky., 2004
M.D.: University of Louisville, Louisville, Ky., 2008

Catherine E. Beck, M.D.
PGY-1
B.S.: University of Wisconsin, Madison, Wis., 2003
M.D.: The Ohio State University, Columbus, Ohio, 2008

Myla N. Bennett, M.D.
PGY-3
B.S.: University of Michigan, Ann Arbor, Mich., 2001
M.D.: The Ohio State University, Columbus, Ohio, 2006

Lloyd G. Brown, M.D.
PGY-5
B.A.: University of Rochester, Rochester, N.Y., 1996
M.D.: University of Rochester, Rochester, N.Y., 2002
M.S.: The Ohio State University, Columbus, Ohio, 2006
Amy L. Collins, M.D.
PGY-2
B.S.: Florida Atlantic University, Boca Raton, Fla., 2001
M.D.: University of South Florida, Tampa, Fla., 2007

Andrew O. Crockett, M.D.
Surgical Critical Care Fellow
B.S.: University of Utah, Salt Lake City, Utah, 2001
M.D.: University of Utah, Salt Lake City, Utah, 2005

H. Tracy Davido, M.D.
PGY-3
B.A.: Cleveland State University, Cleveland, Ohio, 1993
M.D.: University of Pittsburgh, Pittsburgh, Penn., 2002

Mary E. Dillhoff, M.D.
Master of Medical Science Program
B.S.: University of Cincinnati, Cincinnati, Ohio, 2001
M.D.: University of Cincinnati, Cincinnati, Ohio, 2005
M.S.: The Ohio State University, Columbus, Ohio, 2009

Jeffrey L. Eakin, M.D.
PGY-3
B.A.: Miami University, Oxford, Ohio, 2001
M.D.: The Ohio State University, Columbus, Ohio, 2006

David C. Evans, M.D.
PGY-3
B.S.: Duke University, Durham, N.C., 2002
M.D.: Duke University, Durham, N.C., 2006

Bryan T. Fisher, M.D.
PGY-4
B.S.: Tennessee State University, Nashville, Tenn., 2000
M.D.: University of Wisconsin, Madison, Wis., 2004

Mason G. Fisher, M.D.
PGY-4
B.A.: Miami University, Oxford, Ohio, 1999
M.D.: The Ohio State University, Columbus, Ohio, 2003
M.S.: The Ohio State University, Columbus, Ohio, 2007
Meghan R. Forster, M.D.
PGY-3
B.A.: DePauw University, Greencastle, Ind., 1998
M.D.: University of Cincinnati, Cincinnati, Ohio, 2004
M.S.: The Ohio State University, Columbus, Ohio, 2008

Kristan D. Guenterberg, M.D.
Master of Medical Science Program
B.S.: Walla Walla College, College Place, Wash., 2001
M.D.: Loma Linda University, Loma Linda, Calif., 2005
M.S.: The Ohio State University, Columbus, Ohio, 2009

Clinton R. “C.R.” Hall, M.D.
PGY-5
M.D.: University of South Florida, Tampa, Fla., 2004

Ioannis S. Hatzaras, M.D.
Master of Science Program in Public Health
M.D.: Aristotle University of Thessaloniki, Thessaloniki, Greece, 2002

Lisa M. Haubert, M.D.
Master of Science Program in Anatomy
B.S.: University of Akron, Akron, Ohio, 2002
M.D.: The Ohio State University, Columbus, Ohio, 2006

Russell G. Hendrick, Jr., M.D.
PGY-1
B.S.: Louisiana State University, Baton Rouge, La., 2001
M.S.: Louisiana State University, Baton Rouge, La., 2003
M.D.: Louisiana State University, New Orleans, La., 2008

Jon C. Henry, M.D.
PGY-1
B.S.: The Ohio State University, Columbus, Ohio, 2004
M.D.: The Ohio State University, Columbus, Ohio, 2008

Michael E. Johansen, M.D.
PGY-1
B.S.: The Ohio State University, Columbus, Ohio, 2004
M.D.: The Ohio State University, Columbus, Ohio, 2008
Natalie B. Jones, M.D.
PGY-4
B.A.: University of Virginia, Charlottesville, Va., 2000
M.D.: The Ohio State University, Columbus, Ohio, 2004
M.S.: The Ohio State University, Columbus, Ohio, 2008

Alistair J. Kent, M.D.
PGY-1
B.S.: Harding University, Searcy, Ark., 2004
M.D.: Washington University, St. Louis, Mo., 2008

Michelle Y. Kincaid, M.D.
PGY-2
B.A.: Johns Hopkins University, Baltimore, Md., 2002
M.D.: University of Maryland, Baltimore, Md., 2007

Michael W. Lin, M.D.
PGY-1
B.S.: Washington University, St. Louis, Mo., 2003
M.D.: University of Iowa, Iowa City, Iowa, 2008

Eric A. Luedke, M.D.
PGY-2
B.S.: Marquette University, Milwaukee, Wis., 2003
M.D.: Medical College of Wisconsin, Milwaukee, Wis., 2007

Humberto J. Martinez-Suarez, M.D.
PGY-1
B.S.: University of Notre Dame, Notre Dame, Ind., 2004
M.D.: University of Michigan, Ann Arbor, Mich., 2008

Alison McAnneny, M.D.
PGY-2
B.A.: Colby College, Waterville, Maine, 2003
M.D.: Pennsylvania State University, Hershey, Pa., 2007

Theodore W. Nagel, M.D.
PGY-1
B.A.: St. Olaf College, Northfield, Minn., 2004
M.D.: Northwestern University, Evanston, Ill., 2008
Peter N. Nau, M.D.
Master of Medical Science Program
B.S.: St. Olaf College, Northfield, Minn., 2001
M.D.: University of Iowa, Iowa City, Iowa, 2006

Ryan T. Novak, M.D.
PGY-1
D.Pharm.: University of Minnesota, Minneapolis, Minn., 2004
M.D.: University of Minnesota, Minneapolis, Minn., 2008

Iyore A. Otabor, M.D.
Master of Medical Science Program
M.D.: Tufts University, Boston, Mass., 2006

Christian A. Otero, M.D.
PGY-2
M.D.: Escuela Colombiana de Medicina, Bogota, Colombia, 2002

Laura A. Peterson, M.D.
PGY-1
B.S.: University of Wisconsin, Madison, Wis., 2004
M.D.: University of Wisconsin, Madison, Wis., 2008

Thomas A. Pham, M.D.
PGY-2
B.S.: The Ohio State University, Columbus, Ohio, 2003
M.D.: University of Cincinnati, Cincinnati, Ohio, 2007

Maureen E. Pons, M.D.
PGY-2
M.D.: University of Connecticut, Farmington, Conn., 2007

Ricardo O. Quarrie, M.D.
PGY-2
B.S.: Florida State University, Tallahassee, Fla., 2003
M.D.: The Ohio State University, Columbus, Ohio, 2007

Geoffrey J. Roelant, M.D.
PGY-1
B.S.: Michigan Technological University, Houghton, Mich., 1999
M.S.: Michigan Technological University, Houghton, Mich., 2002
M.D.: University of Maryland, College Park, Md., 2008
Mohammadreza Rohaninejad, M.D.
PGY-5
M.D.: Tehran University of Medical Sciences, Tehran, Iran, 1992

Sumita Saha, M.D.
PGY-3
M.D.: Georgetown University, Washington, D.C., 2006

Margaret S. Sawyer, M.D.
PGY-5
B.S.: University of Michigan, Ann Arbor, Mich., 1997
M.D.: The Ohio State University, Columbus, Ohio, 2002
M.B.A.: The Ohio State University, Columbus, Ohio, 2007

Irina S. Shakhnovich, M.D.
PGY-4
B.A.: Marquette University, Milwaukee, Wis., 1999
M.D.: Medical College of Wisconsin, Milwaukee, Wis., 2004
M.S.: The Ohio State University, Columbus, Ohio, 2009

Vance L. Smith, M.D.
PGY-4
B.A.: Cedarville University, Cedarville, Ohio, 1997
M.S.: Kansas State University, Manhattan, Kan., 1999
M.D.: Medical College of Ohio, Toledo, Ohio, 2003
M.B.A.: The Ohio State University, Columbus, Ohio, 2007

Tyler C. Spata, M.D.
PGY-1
B.A.: University of Texas, Austin, Texas, 2003
M.D.: University of Texas, Austin, Texas, 2008

Maakan Taghizadeh, M.D.
PGY-3
B.S.: James Madison University, Harrisonburg, Va., 2000
M.D.: University of Maryland, Baltimore, Md., 2006

Alicia C. Thomas, M.D.
Master of Medical Science Program
B.S.: High Point University, High Point, N.C., 2002
M.D.: University of North Carolina, Chapel Hill, N.C., 2006
Jonathan R. Wisler, M.D.
PGY-1
B.A.: Miami University, Oxford, Ohio, 2004
M.D.: University of Cincinnati, Cincinnati, Ohio, 2008

Jonathan C. Yang, M.D.
PGY-2
B.A.: University of California, Berkeley, Calif., 2002
M.D.: Drexel University, Philadelphia, Pa., 2007

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

- Division faculty members published 34 scholarly articles, abstracts, and chapters.

- Division faculty members are principal investigators for the first Food and Drug Administration-approved trial of natural orifice translumenal endoscopic surgery (NOTES).

- The Center for Minimally Invasive Surgery was awarded ongoing funding by Covidien to research minimally invasive surgical techniques and technology.

Active Research Grants


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


Needleman BJ, Melvin WS. Evaluation of endostapled anastomoses for laparoscopic gastric bypass: A prospective randomized comparison of the 3.5-mm vs. 4.8-mm circular stapler for creation of the gastrojejunostomy. United States Surgical Corporation, March 1, 2005 – September 30, 2009, $11,613.


Clinical Programs

• Comprehensive general surgery service.

• Minimally invasive surgery.

• Bariatric surgery.

• Gastroesophageal reflux.

• Hepatobiliary and pancreatic cancer.

• Colorectal surgery.

• Wound care.
Accomplishments in Clinical Care

- Attending faculty in the division performed 11,144 operating room procedures and received 15,612 outpatient visits.

Clinical Statistics

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<table>
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<tbody>
<tr>
<td>OR Procedures</td>
<td>11,144</td>
</tr>
<tr>
<td>Outpatient Visits</td>
<td>15,612</td>
</tr>
<tr>
<td>Admissions</td>
<td>2,101</td>
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<tr>
<td>Patient Days</td>
<td>14,233</td>
</tr>
<tr>
<td>Average Length of Stay (Days)</td>
<td>6.48</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 endoscopic surgery.
- 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. Lloyd Brown, Dr. Clinton Hall, Dr. Mohammadreza Rohaninejad, and Dr. Margaret Sawyer.
- Completion of the clinical assistant professorship in minimally invasive surgery by Dr. Sebastian Demyttenaere and Dr. Brian Winkleman.
• Completion of the clinical assistant professorship in advanced therapeutic endoscopic surgery by Dr. Joel Anderson.

• Faculty trained more than 250 surgeons, residents, students, and allied health-care professionals from throughout the United States and the international community in educational programs offered through the Center for Minimally Invasive Surgery.

Accomplishments in Community Outreach

• Ninth Annual Advances in Minimally Invasive Surgery Course, Marco Island, Fla., February 27 – March 1, 2009.

Publications


**Abstracts**


Chapters


Visiting Professorships


Melvin WS. Microbiology in human NOTES. University of Texas Southwestern Medical Center, Dallas, Texas, September 11, 2008.


Melvin WS. Natural orifice translumenal endoscopic surgery. Toledo Surgical Society, Toledo, Ohio, September 18, 2008.


International Presentations


National Presentations


Miscellaneous Presentations

Ding J, Demyttenaere S, Mikami DJ. Developing a methodology to evaluate a novel fibrin sealant. The Ohio State University Medical Center, Research Day, Columbus, Ohio, April 10, 2009.
Harzman AE. Laparoscopic colon surgery for the general surgeon and video presentation. The Ohio State University Medical Center, Ninth Annual Advances in Minimally Invasive Surgery, New Paradigms in General Surgery, Marco Island, Fla., March 1, 2009.

Harzman AE. Surgical management of Crohn’s disease and ulcerative colitis. Crohn’s and Colitis Foundation of America, Annual Ohio Nurse’s Day Education Program and Luncheon, Columbus, Ohio, February 7, 2009.


Hazey JW. When a simple cholecystectomy isn’t so simple. Society of Gastroenterology Nurses and Associates, National Meeting, St. Louis, Mo., June 1, 2009.

Henn MC, Demyttenaere S, Nau P, Beck C, Melvin WS. Assessment of a knotless barbed suture for single-layer closure of enterotomies: a clinical, biomechanical, and histological comparison against non-barbed suture. The Ohio State University Medical Center, Research Day, Columbus, Ohio, April 10, 2009.

Nau P, Yuh B, Anderson J, Happel L, Ellison EC, Melvin WS, Hazey JW. Transgastric endoscopic peritoneoscopy for evaluation of the abdominal wall, adhesiolysis, and direction of trocar placement in the morbidly obese. The Ohio State University Medical Center, Research Day, Columbus, Ohio, April 10, 2009.


Nau P, Yuh B, Muscarella P, Ellison EC, Anderson J, Happel L, Melvin WS, Hazey JW. Diagnostic transgastric endoscopic peritoneoscopy: extension of initial human trial for staging of pancreatic head masses. The Ohio State University Comprehensive Cancer Center, the James Cancer Hospital and Solove Research Institute, 11th Annual Scientific Meeting, Columbus, Ohio, February 20, 2009.

Schlanger RE. Familiarization with new care standards for pressure ulcers and diabetic leg wounds. University of Toledo College of Medicine, 19th Annual Statewide Geriatric Medicine Conference, Cambridge, Ohio, October 17–19, 2008.

Schlanger RE. General surgical applications of oxygen therapy. The Ohio State University Medical Center, Department of Surgery, Grand Rounds, Columbus, Ohio, February 12, 2009.
Schlanger RE. Hyperbaric treatment for wound healing. American Society of Perianesthesia Nurses, Mount Carmel East Hospital, Columbus, Ohio, October 11, 2008.

Schlanger RE. Necrotizing fasciitis. The Ohio State University Medical Center, University Hospital East, Grand Rounds, Columbus, Ohio, November 14, 2008.

Schlanger RE. Peripheral arterial disease. The Ohio State University Medical Center, Comprehensive Wound Care Continuing Medical Education Event, Biomedical Research Tower, Columbus, Ohio, October 30, 2008.

Schlanger RE. Peripheral arterial disease. The Ohio State University Medical Center, Comprehensive Wound Care Continuing Medical Education Event, the Forum at Knightsbridge, Columbus, Ohio, August 19, 2008.

Schlanger RE. Peripheral arterial disease. The Ohio State University Medical Center, Comprehensive Wound Care Continuing Medical Education Event, the Forum at Knightsbridge, Columbus, Ohio, November 18, 2008.

Schlanger RE. Peripheral arterial disease. The Ohio State University Medical Center, University Hospital East, Nursing Grand Rounds, Columbus, Ohio, March 18, 2009.

Schlanger RE. Surgical infections and healing surgical wounds. The Ohio State University Medical Center, Surgery Honors Program Journal Club, Columbus, Ohio, October 7, 2008.

Yuh B, Nau P, Anderson J, Dettorre R, Needleman B, Mikami D, Narula V, Melvin WS, Hazey J. Transgastric peritoneoscopy for evaluation of the abdominal wall to direct laparoscopic trocar placement and evaluation of transgastric bacterial contamination. The Ohio State University Medical Center, Research Day, Columbus, Ohio, April 10, 2009.
The Division of Pediatric Surgery conducts its clinical, educational, research, and academic programs at the Nationwide Children’s Hospital, the fourth busiest and fifth largest children’s hospital in the United States. This year, *Parents* magazine ranked Nationwide Children’s Hospital among the “10 Best Children’s Hospitals,” placing it sixth on this elite list. *U.S. News & World Report* recognized Nationwide Children’s Hospital in all seven pediatric specialties, making it one of the top-ranked children’s hospitals in the nation.

Expansion of clinical services was marked this year by the opening of the new Outpatient Surgery Center and the Gastroenterology/Motility Center, which connect to the main hospital facility. A new and enlarged Ronald McDonald House was opened in late 2008, making it a model for family-friendly accommodations. Construction is under way for the replacement hospital, a 12-story, 550-bed facility with occupancy expected by the end of 2012. This structure will serve as a major addition to the Columbus skyline and will offer a significant number of new professional and allied health-care jobs for Central Ohio.

In April 2009, the Division of Pediatric Surgery, sponsored a multidisciplinary international symposium, under the leadership of Dr. Marc Michalsky and Dr. Steven Teich, titled *Chronic Diseases in Childhood Obesity: Risks and Benefits of Early Intervention*. More than 300 pediatric specialists and surgeons from as far away as Australia and South America attended the two-day meeting. A highlight was the keynote address by former surgeon general Dr. Richard Cardona, who discussed the deleterious effects of obesity on world health. Speakers at the symposium from the Department of Surgery included Dr. Bradley Needleman, Dr. Marc Michalsky, and Dr. Donna Caniano.
The Pediatric Surgical Research Laboratory, directed by Dr. Gail Besner and Dr. David Brigstock, continued its remarkable success with five National Institutes of Health-funded grants to support basic science investigation in growth factor biology. Dr. Besner and her colleagues focus their work on heparin-binding EGF-like growth factor (HB-EGF), and its protective and preventive effects on intestinal ischemia and reperfusion injury. Preparatory work is under way to begin Phase I and II national clinical trials to evaluate the safety and efficacy of HB-EGF in the prevention of necrotizing enterocolitis, a major cause of intestinal loss in premature infants. Dr. Brigstock and his colleagues continue their study of the role of connective tissue growth factor in hepatic and pancreatic fibrosis, scarring, and tissue remodeling, which has significant implications for the clinical entities of cirrhosis and pancreatitis.

The Adolescent Bariatric Surgery Program, part of the Nationwide Children’s Hospital Center for Healthy Weight and Nutrition, completed its participation in a Food and Drug Administration-approved multi-institutional clinical trial to evaluate the safety and efficacy of the Lap-Band in adolescents with morbid obesity. The early results in this patient population are quite favorable, in terms of weight loss, reversal of comorbid conditions, and safety. Dr. Marc Michalsky is a participant in an NIH-funded multi-institutional study, TEEN-LABS, which prospectively enrolls adolescents with morbid obesity, assesses their comorbid conditions, and follows their outcomes following weight reduction surgery.

The American College of Surgeons-accredited Level I Pediatric Trauma Program continues as one of the nation’s busiest pediatric trauma facilities, with annual trauma admissions for the past three years averaging 1,300 patients. In addition, the Burn Program, verified as a Burn Center by the American Burn Association, remains active in advancing outpatient management of pediatric thermal injury through innovative wound management techniques.

On April 17, 2009, the Pediatric Trauma Program at Nationwide Children’s Hospital, under the leadership of Dr. Jonathan Groner, sponsored the 10th Annual Pediatric Trauma Symposium, in collaboration with the other five pediatric hospitals in Ohio. The keynote speaker was Dr. Barbara Barlow, professor of surgery at Columbia University and director of surgery at Harlem Hospital, in New York City. Dr. Barlow presented “Journey to Injury Free,” her pioneering work in developing the Injury Free Coalition for Kids, a national program of the Robert Wood Johnson Foundation. This program works with pediatric trauma centers in the United States to reduce injury through education, construction of safe play areas, and the development of safe, supervised play activities.

Dr. Gail Besner is a member of the Center for Perinatal Research of the Research Institute at Nationwide Children’s Hospital. This year, Dr. Besner was awarded the John E. Fisher Endowed Chair in Neonatal Research, in recognition of her outstanding basic science work. She serves as director of the Pediatric Burn Program at Nationwide Children’s Hospital and is associate program director of the residency in pediatric surgery. She is a member of the American College of Surgeons Surgical Research Committee.

Dr. David Brigstock is a principal investigator in the Center of Cell and Vascular Biology of the Research Institute at Nationwide Children’s Hospital, where he continues his research on connective
tissue growth factor (CTGF) and its role in the fibrotic processes within the liver and pancreas. Dr. Brigstock serves as U.S. editor of *The Journal of Endocrinology*, and is an elected officer in the International CCN Society.

Dr. Allen Browne joined the Division of Pediatric Surgery this year as an associate professor of clinical surgery, bringing expertise in advanced minimally invasive surgery and a clinical interest in surgical weight reduction surgery for morbidly obese adolescents.

Dr. Donna Caniano continues to serve on the editorial boards of *The Journal of Pediatric Surgery* and *Pediatric Surgery International*. Dr. Caniano is a frequently-invited speaker on the topic of surgical ethics. This year, she was the invited speaker in several fund-raising venues for Nationwide Children’s Hospital, showcasing the surgical outcomes for neonates with major congenital anomalies. She was featured in the inaugural issue of *Capital Style*, a regional publication that highlights women’s accomplishments.

Dr. Renata Fabia serves as associate director of the Pediatric Burn Program. She continues to refine the clinical pathways for the management of children with blunt abdominal injury, and to provide hospital and follow-up care for children with thermal injuries.

Dr. Jonathan Groner continues to be recognized as an international authority on the ethics of physician participation in judicial executions by lethal injection. He serves as an invited speaker and panelist at numerous national and international conferences on this topic. Dr. Groner continues in his role as medical director of the Trauma Program at Nationwide Children’s Hospital. He is a site reviewer for pediatric trauma centers, and a frequent speaker on pediatric trauma.

Dr. Brian Kenney continues as director of the Nationwide Children’s Hospital-accredited fellowship in pediatric surgical critical care. He also serves as director of the Chest Wall Center at Nationwide Children’s Hospital, where he has developed comprehensive management for children with pectus excavatum and carinatum deformities.

Dr. Denis King serves as medical director of Nutrition Support Services. He was given the Pediatric Surgery Teacher of the Year Award for 2008 by the residents in general surgery, in recognition of his outstanding contributions to their education. This year the Division of Pediatric Surgery honored Dr. King by renaming the annual teaching award as the Denis R. King Pediatric Surgery Teacher of the Year Award.

Dr. Marc Michalsky serves as surgical director of the Center for Healthy Weight and Nutrition at Nationwide Children’s Hospital. Under his leadership, the Adolescent Bariatric Surgery Program has matured into one of the busiest in the nation, in terms of clinical volume and participation in research. He was named as a co-investigator on TEEN-LABS, a federally-funded clinical trial to evaluate the health benefits and risks of adolescent bariatric surgery.
Dr. Benedict Nwomeh serves as surgical director of the Center for Pediatric and Adolescent Inflammatory Bowel Disease at Nationwide Children’s Hospital. He is pursuing a master of public health degree at Ohio State’s College of Public Health and continues his research in the area of surgical education and communication.

Dr. Steven Teich is surgical director of the Neonatal Intensive Care Unit at Nationwide Children’s Hospital. He is vice president of the medical staff at Nationwide Children’s Hospital and serves on several hospital committees.

In our graduate education programs, Dr. Jennifer Aldrink completed the residency in pediatric surgery this year. In July 2009, she will join the Division of Pediatric Surgery at Ohio State as an assistant professor of surgery and an attending pediatric surgeon at Nationwide Children’s Hospital. Dr. Dorothy Rocourt will begin the chief residency in pediatric surgery. Dr. David Skarda, who completed a residency in general surgery and a fellowship in minimally invasive surgery at the University of Minnesota, will begin the residency in pediatric surgery at Nationwide Children’s Hospital. Dr. Angela Hanna completed the fellowship in pediatric surgical critical care and will begin a residency in pediatric surgery at the Long Island Jewish Hospital, in Hyde Park, N.Y. Dr. Johanna Askegard-Giesmann completed the trauma/clinical research fellowship at Nationwide Children’s Hospital and will begin the fellowship in pediatric surgical critical care. In July 2010, Dr. Helena Crowley, a resident in general surgery at Tufts University, in Boston, Mass., will begin the residency in pediatric surgery at Nationwide Children’s Hospital.

The faculty members, residents, and fellows in the Division of Pediatric Surgery maintain essential roles in the educational, research, clinical care, and service missions of the Department of Surgery, The Ohio State University College of Medicine, Nationwide Children’s Hospital, and several national professional organizations in pediatric surgery.
Faculty

**Donna A. Caniano, M.D.**
Professor of Surgery; Chief, Division of Pediatric Surgery; the H. William Clatworthy, Jr. Professor in Pediatric Surgery

*B.A.*: Vassar College, Poughkeepsie, N.Y., 1972  
*M.D.*: Albany Medical College, Albany, N.Y., 1976  
**Specialty Training:** Albany Medical Center Hospital, Albany, N.Y.; Johns Hopkins University Hospital, Baltimore, Md.; Columbus Children’s Hospital, Columbus, Ohio  
**Appointment:** 1985  
**Specialty Interests:** Neonatal gastrointestinal disorders, Hirschsprung’s disease  
**Research Interests:** Biomedical ethics

**Gail E. Besner, M.D.**
Professor of Surgery  
*B.A.*: Cornell University, Ithaca, N.Y., 1978  
*M.D.*: University of Cincinnati, Cincinnati, Ohio, 1982  
**Specialty Training:** Brigham and Women’s Hospital, Boston, Mass.; Children’s Hospital of Buffalo, Buffalo, N.Y.  
**Appointment:** 1991  
**Specialty Interests:** Burns, pediatric laparoscopic surgery  
**Research Interests:** Growth factor involvement in wound healing

**David R. Brigstock, Ph.D.**
Associate Professor of Surgery  
*B.S.*: Brunel University, West London, United Kingdom, 1984  
*Ph.D.*: Cambridge University, Cambridge, United Kingdom, 1988  
**Specialty Training:** Harvard University, Cambridge, Mass.  
**Appointment:** 1991  
**Research Interests:** Biology of connective tissue growth factor

**Allen F. Browne, M.D.**
Associate Professor of Surgery  
*A.B.*: Brown University, Providence, R.I., 1967  
*M.D.*: George Washington School of Medicine, Washington, D.C., 1971  
**Specialty Training:** Cincinnati Children’s Hospital, Cincinnati, Ohio; Columbus Children’s Hospital, Columbus, Ohio  
**Appointment:** 2008  
**Research Interests:** Bariatric surgery
Renata B. Fabia, M.D., Ph.D.
Clinical Assistant Professor of Surgery
M.D.: Silesian University School of Medicine, Katowice, Poland, 1985
Ph.D.: Lund University, Lund, Sweden, 1993
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 2003
Specialty Interests: General surgery in children and adolescents; burn and trauma management
Research Interests: Inflammatory bowel disease, trauma

Jonathan I. Groner, M.D.
Professor of Clinical Surgery
B.S.: Northwestern University, Evanston, Ill., 1982
M.D.: Northwestern University, Evanston, Ill., 1984
Specialty Training: Medical College of Wisconsin, Milwaukee, Wis.; Children’s Hospital, Columbus, Ohio
Appointment: 1999
Specialty Interests: Trauma, child advocacy
Research Interests: Trauma prevention

Brian D. Kenney, M.D., M.P.H.
Assistant Professor of Clinical Surgery
B.A.: University of Notre Dame, South Bend, Ind., 1979
M.D.: Medical College of Ohio, Toledo, Ohio, 1983
M.P.H.: Harvard University School of Public Health, Boston, Mass., 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

Marc P. Michalsky, M.D.
Assistant Professor of Clinical Surgery
B.A.: Brandeis University, Waltham, Mass., 1988
M.D.: University of Medicine and Dentistry of New Jersey, Newark, N.J., 1992
Specialty Training: University of Medicine and Dentistry of New Jersey, Newark, N.J.; Columbus Children’s Hospital, Columbus, Ohio
Appointment: 2004
Specialty Interests: Minimally invasive surgery, childhood obesity
Research Interests: Childhood obesity, quality performance, surgical outcomes
Benedict C. Nwomeh, M.D.
Assistant Professor of Clinical Surgery

Undergraduate Degree: Faculty of Science, University of Lagos, Lagos, Nigeria, 1981
M.D.: College of Medicine, University of Lagos, Lagos, Nigeria, 1986
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

Emeritus Faculty

E. Thomas Boles, Jr., M.D.
Professor Emeritus of Surgery
B.S.: College of William and Mary, Williamsburg, Va., 1942
M.D.: Harvard University, Cambridge, Mass., 1945

Clinical Faculty

Denis R. King, M.D.
Clinical Associate Professor of Surgery
B.S.: University of Notre Dame, South Bend, Ind., 1965
M.D.: Hahnemann Medical College, Philadelphia, Pa., 1969
Specialty Training: The Ohio State University Hospital; Children’s Hospital, Columbus, Ohio
Specialty Interests: Cancer, nutrition
Research Interests: Pediatric oncology

Steven Teich, M.D.
Clinical Assistant Professor of Surgery
B.S., M.S.: Rensselaer Polytechnic Institute, Troy, N.Y., 1976
M.D.: State University of New York at Buffalo, N.Y., 1981
Specialty Training: George Washington University Medical Center, Washington, D.C.; Children’s Hospital of Pittsburgh, Pa.
Specialty Interests: Epidermolysis bullosa, burns, laparoscopic surgery
Research Interests: Quality improvement and surgical clinical pathways
Resident Staff

Jennifer H. Aldrink, M.D.
Clinical Instructor and Chief Resident
B.S.: Wake Forest University, Winston-Salem, N.C., 1995
M.D.: East Carolina University School of Medicine, Greenville, N.C., 2000

Johanna R. Askegard-Giesmann, M.D.
Trauma/Clinical Research Fellow
B.A.: University of Minnesota, Minneapolis and St. Paul, Minn., 1999
M.D.: Finch University of Health Sciences/The Chicago Medical School, North Chicago, Ill., 2004

Angela M. Hanna, M.D.
Surgical Critical Care Fellow
B.A.: Virginia Polytechnic Institute and State University, Blacksburg, Va., 1998
M.D.: University of Utah, Salt Lake City, Utah, 2003

Dorothy V. Rocourt, M.D.
Clinical Instructor and Assistant Chief Resident
B.A.: Dartmouth College, Hanover, N.H., 1995
M.D.: University of Medicine and Dentistry of New Jersey, Newark, N.J., 1999

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, as well as by industry, and include:

• Elucidation of the mechanisms by which HB-EGF exerts its protective effects against intestinal injury, including its effects on the vasculature.
• 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 established animal models of neonatal necrotizing enterocolitis, hemorrhagic shock and resuscitation, intestinal ischemia/reperfusion injury, intestinal anastomotic wound healing, and cecal ligation and perforation.

• 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.

• Production of transgenic mice that overexpress CTGF in the liver.

• Anti-CTGF targeting strategies in the liver and pancreas.

Accomplishments in Research

Gail E. Besner, M.D.
The Besner laboratory made significant accomplishments this year. Dr. Besner currently holds three R01 grants from the National Institutes of Health, as well as funding from a private biotechnology company, to continue her basic science research on heparin-binding EGF-like growth factor (HB-EGF). In conjunction with the biotechnology industry, human-grade HB-EGF has been produced, and an application to the FDA for administration of HB-EGF to humans has been filed. Dr. Besner’s research resulted in several publications and was presented at several national meetings this year, with her research fellows winning a number of awards for their presentations.

David R. Brigstock, Ph.D.
Dr. Brigstock continued his NIH-funded studies of the role of connective tissue growth factor (CTGF) in organ fibrosis. A major accomplishment is his receipt of two NIH R01 grants to support his work on CTGF-mediated fibrogenic pathways in the liver and pancreas. His work on CTGF-based antifibrotic therapies was presented at the Fifth International Workshop on the CCN Family of Genes, the 59th Annual Meeting of the American Association for the Study of Liver Diseases, and by invitation, at Experimental Biology 2009.
Active Research Grants


Besner GE. HB-EGF and protection of the intestines from injury. Trillium Therapeutics, Inc., April 15, 2009 – April 14, 2010, $100,000.


Brigstock DR. CTGF in pancreatic stellate cell-mediated fibrogenesis. National Institutes of Health (National Institute on Alcohol Abuse and Alcoholism), September 30, 2007 – August 31, 2012, $1,125,000.


Michalsky MP. Prediction of outcome of bariatric surgery using the autonomic and enteric nervous systems. Thomas Boles Endowment Fund, October 6, 2008 – October 6, 2013, $11,600.

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 neonatal and pediatric ECMO program.

• Minimally invasive pediatric surgery program.

• Chest wall center for comprehensive care of chest wall anomalies.

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.

• Listing of Dr. Gail E. Besner, Dr. Donna A. Caniano, Dr. Denis R. King, and Dr. Steven Teich by Best Doctors in America.
Clinical Statistics

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Procedures</td>
<td>3,961</td>
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<tr>
<td>Outpatient Visits</td>
<td>11,458</td>
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<tr>
<td>Admissions</td>
<td>2,106</td>
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<tr>
<td>Patient Days</td>
<td>10,328</td>
</tr>
<tr>
<td>Average Length of Stay</td>
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</tr>
</tbody>
</table>

Educational Programs

- Two-year residency in pediatric surgery, accredited by the Accreditation Council for Graduate Medical Education. The program 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.

- Fellowship in pediatric surgical critical care, accredited by the Accreditation Council for Graduate Medical Education. The program 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 for third-year medical students at The Ohio State University College of Medicine.

- Subinternship in pediatric surgery for fourth-year medical students at The Ohio State University College of Medicine.
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.

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 1,378 bicycle helmets to children in Central Ohio, in cooperation with the Columbus Blue Jacket Foundation.
- Sponsorship of education and information programs on child safety seats throughout the Columbus community.
- Inspection of 304 child safety seats and distribution of 1,378 child safety seats through the trauma program of Nationwide Children’s Hospital.
- Injury prevention focused on lawn mower injuries and mower safety.
Publications


Abstracts


Chapters


Visiting Professorships

Caniano DA. Washington University Department of Surgery and St. Louis Children’s Hospital, St. Louis, Mo., March 18, 2009.

Groner JI. Brenner Children’s Hospital, Wake Forest University Baptist Medical Center, Winston-Salem, N.C., February 4, 2009.
International Presentations

Brigstock DR. Targeted CTGF gene therapy in experimental liver fibrosis. Fifth International Workshop on the CCN Family of Genes, Toronto, Canada, October 18–22, 2008.

National Presentations


Caniano DA. Ethical issues in pediatric bariatric surgery. Chronic Diseases in Childhood Obesity: Risks and Benefits of Early Intervention Symposium, Columbus, Ohio, April 2–3, 2009.

Caniano DA. The ultra-short-bowel patient: do I resect and refer or do I close? Pediatric Intestinal Failure and Rehabilitation Symposium, Pittsburgh, Pa., September 12, 2008.


Miscellaneous Presentations

Besner G. Pediatric burns. Nationwide Children’s Hospital, Pediatrics Grand Rounds, Columbus, Ohio, July 17, 2008.

Besner G. The systemic inflammatory response syndrome in trauma and burns. Tenth Annual Ohio Pediatric Trauma Symposium, Columbus, Ohio, April 17, 2009.

Caniano D. Abdominal pain: a complex differential diagnosis. Nationwide Children’s Hospital, VIP Conference, Columbus, Ohio, April 8, 2009.

Caniano D. The acute abdomen in infants and children. Nationwide Children’s Hospital, Pediatrics Grand Rounds, Columbus, Ohio, July 10, 2008.

Caniano D. Ethical considerations in prenatal surgical consultation. Nationwide Children’s Hospital, Ethics Conference, Columbus, Ohio, January 29, 2009.

Caniano D. Ethical considerations in prenatal surgical consultation. Nationwide Children’s Hospital, Pediatrics Grand Rounds, Columbus, Ohio, December 11, 2008.

Caniano D. Leadership ethics. Nationwide Children’s Hospital, Medical Leadership Program, Columbus, Ohio, June 9, 2009.

Caniano D. The power of hope and love: pediatric surgery stories. Nationwide Children’s Hospital, Roundup for Children’s Miracle Network Telethon, Columbus, Ohio, February 27, 2009.


Caniano D. Update in pediatric surgery. Nationwide Children’s Hospital, Medical Alumni Day, Columbus, Ohio, September 19, 2008.
The Division of Plastic Surgery has continued to grow in each of its mission areas: clinical care, research, and education.

In clinical care, our guiding principle is to provide services fully integrated into the multidisciplinary environment of the academic medical center, providing readily available reconstructive surgery services to other specialists at University Hospital, the Ross Heart Hospital, the James Cancer Hospital, and Nationwide Children’s Hospital. Our surgical volumes, billings, and revenues reached record levels this year. Some cases performed this year had never before been performed at Ohio State, and two cases in particular had never been reported in the world. The first was a total esophageal reconstruction in a teenager with congenital absence of the esophagus, in which the organ was restored using a microvascular surgery to interpose a segment of small bowel. The second was a reconstruction following an external hemipelvectomy, in which vascularized segments of the femur, fibula, and soft tissues from the thigh were preserved and transferred as a composite flap. 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.

This year the division appointed two new faculty members and recruited three new faculty for the upcoming year, increasing the number of faculty in the division next year to 12. The new faculty are:

- Dr. James Boehmler, who joined the faculty in August 2008 and serves as our third reconstructive microsurgeon. Dr. Boehmler trained in plastic surgery at Georgetown University, in Washington, D.C., and in reconstructive microsurgery at the University of Texas M.D. Anderson Cancer Center, in Houston, Texas. He has been instrumental in establishing our microsurgery laboratory and has assumed responsibilities for our new fellowship program in reconstructive microsurgery.
• Dr. Brian Janz, who will join us September 1, 2009, after completing his fellowship training at the Curtis Hand Center in Baltimore, the premier hand center in the country. A hand surgeon, Dr. Janz will hold a dual appointment in the Department of Orthopedic Surgery and will participate in the multidisciplinary OSU Hand Surgery Center.

• Dr. Ergun Kocak, who will join the faculty August 1, 2009. Dr. Kocak completed his plastic surgery training at Ohio State and a fellowship in reconstructive microsurgery at the University of Texas M.D. Anderson Cancer Center.

• Dr. Brian Porshinsky, who will join our faculty July 1, 2009, through a joint appointment to the Division of Critical Care, Trauma, and Burn. He will serve as assistant director of The Ohio State University Burn Center.

• Dr. Michael Ruff, who joined our faculty June 1, 2009, through a joint appointment to the Department of Orthopedic Surgery. He serves as director of the OSU Hand Surgery Center, a new multidisciplinary center that has the potential to become a leading provider of clinical services and research in the region.

In order to support the growth in faculty, we have added several important new support staff members. Angie Crespin serves as our new division administrator. We also have a new physician assistant and other support staff in the academic and clinic offices.

We continue to maintain a strong alliance with Nationwide Children’s Hospital. We provide general plastic surgery clinical services with nearly all of our full-time faculty members participating, and we conduct two major multidisciplinary clinical programs. The Craniofacial Clinic is staffed primarily by Dr. Gregory Pearson, assisted by Dr. Robert Ruberg. Patient volume continues to grow. Dr. Gayle Gordillo directs the multidisciplinary Vascular Malformations Clinic, which serves as a center for patient care and clinical and basic translational research. We have worked throughout the year to recruit a new chief of pediatric plastic surgery. We are in the final phases of this process and expect success very soon in securing the commitment of an international leader in both clinical care and research in this field.

Mirroring developments in clinical care, our efforts are expanding in clinical, basic, and translational research. Dr. Gordillo is our most active investigator and has received recognition for her ongoing efforts. She has completed gathering the preliminary data needed to submit a very competitive R01 proposal regarding mechanisms of hemangioma formation and control to the National Institutes of Health. She has successfully developed a national chronic wound tissue bank and has made important contributions in wound healing and vascular malformations research. As our clinical program becomes better established, greater energy will be devoted to advancing our research program in biocomputation, regenerative medicine, and clinical science.

Alok Sutradhar, Ph.D., our postdoctoral researcher in advanced technology applications in surgery, has been working on several project areas. Specifically, this year he concentrated his efforts on: (1) measuring skin elasticity and skin thickness of the female breast; (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 three article submissions and two presentations to be given in July
2009, at the 10th National Congress on Computational Mechanics. One project completed in collabora-
tion with Avner Friedman of the Mathematical Biosciences Institute resulted in a publication in the
Proceedings of the National Academy of Sciences. Our goal is to continue to assist Dr. Sutradhar so that
he can be promoted to a faculty position in the coming year. Also, we still have plans to recruit a more
senior full-time research scientist to serve as our research director.

Another new and exciting addition is the joint appointment of Dr. Michael Ruff, director of the Hand
Center. Developing the hand surgery service has been a top priority for the past two years. The new
center will be a multidisciplinary service encompassing plastic surgery, orthopedics, occupational therapy,
neurophysiology, and radiology. The center will be located at the Gowdy II building and will provide a
service to the local and surrounding communities that has been lacking at Ohio State for many years.

Dr. Robert Ruberg retired from clinical practice this year, except for assisting with the Craniofacial Clinic
at Nationwide Children’s Hospital. However, he has been invaluable to the division in multiple academic
and administrative capacities. Dr. Ruberg continues to serve as a leader in University, community, and
national organizations, as he begins to complete his clinical career at Ohio State. Dr. Ruberg will offi-
cially retire this coming year, but will continue to assist the division, as well as the Department of
Surgery and the College of Medicine, in academic matters. In addition, he has agreed to maintain his
position at Nationwide Children’s Hospital until a replacement can be found. His knowledge and expe-
rience are invaluable to the Division of Plastic Surgery.

Dr. Gayle Gordillo has continued to develop her successful research program in wound healing and
vascular malformations. She has submitted two major extramural grants and demonstrates consistent
progress under the mentorship of Dr. Chandan Sen. Dr. Gordillo continues to provide clinical services
and participate in the residency program by monitoring the operative experience of the residents. She is
developing a clinical database for the division that will link to the University Medical Center Informa-
tion Warehouse and the multi-institutional wound-healing database she successfully created for trans-
lational research. In addition, Dr. Gordillo completed her dossier and was promoted to associate professor
with tenure. We congratulate her on this tremendous accomplishment.

Dr. Gregory Pearson continues a very active practice in general plastic surgery, particularly in facial
trauma and pediatric plastic surgery. He will assume all of the plastic surgery cases at Nationwide
Children’s Hospital upon Dr. Ruberg’s retirement, and he will serve well in this position. In addition, his
assistance with the residency program is of tremendous help to the director. Dr. Pearson is organizing
the Tri-State Craniofacial Meeting, to be held in Columbus in October 2009. In April 2008, Columbus
hosted an AO Foundation course, at which Dr. Pearson gained many accolades for his presentation and
participation.
Dr. Anne Taylor completed her second year with the Division of Plastic Surgery. The Easton office location has become very successful under her leadership. She serves as director of the Resident Cosmetic Clinic, which continues to be more successful as time goes on. Dr. Taylor represents us on many different committees and society positions in the local and national plastic surgery communities.

Dr. Pankaj Tiwari completed his second year at Ohio State, and he has performed beyond our expectations. His clinical practice volume has grown such that he is at the top of the division. He has been appointed as our faculty liaison for clinical affairs, which has provided him the opportunity to grow in management and leadership skills. He has become the advisor for our web site, which continues to improve. We look forward to a continued strong presence from Dr. Tiwari as one of our microsurgery faculty members.

As mentioned above, Dr. James Boehmler is the newest faculty member in the Division of Plastic Surgery. Dr. Boehmler is our third reconstructive microsurgeon, and his clinical volume continues to grow. He has contributed greatly to the division by establishing our microsurgery laboratory and serving on several committees, including OpTime and Epic, which are crucial roles, as these two systems will be implemented next year.

Dr. William Wallace has worked hard during his two years on the faculty to establish a post-bariatric body contouring program in conjunction with the Division of General and Gastrointestinal Surgery. He has become the second aesthetic surgeon working at our Easton location, in conjunction with Dr. Anne Taylor. Dr. Wallace should continue to grow his clinical practice and undertake more academic responsibilities over the next year.

Under the direction of Dr. Miller as program director, Dr. Pearson as associate program director, and Dr. Ruberg as advisor, the division applied to the Residency Review Committee to change our residency program from an independent to an integrated program. The GME committee voted to approve our plans to create an integrated six-year program. We plan to initiate the new program format in the 2009-2010 academic year. This is an exciting change for our program that should provide additional knowledge and experience to our residents. The change is consistent with changes in training that will be mandated by the ACGME, beginning in 2010. At our in-service examination this year, all of our residents scored very high, and they have continued to be successful. Of our residents completing their training this year, Dr. Laura Figura went into private practice in Erie, Pa.; Dr. Dana Goldberg went into private practice in West Palm Beach, Fla.; and Dr. Nabil Habash began as our first reconstructive microsurgery fellow.

We continue to enhance our communication with the community faculty through social events, a monthly community faculty meeting, a city-wide M&M conference, and the establishment of a local professional society, the Columbus Society of Plastic Surgeons. All of our visiting professors this year spoke at meetings of the Columbus Society of Plastic Surgeons, and this has given exposure to Ohio State and what our faculty members have to offer the community.

Due to the division’s overwhelming growth, we relocated our academic offices to the Gowdy II Building in June 2009. We expect to move our clinical office from our Knightsbridge location to Gowdy in July 2009. This expansion is allowing us to provide space for all of our current and incoming faculty and to
expand our research program with a Surgical Simulation Laboratory. In addition, with the opening of the new Outpatient Surgery Center on the first floor of the Gowdy facility, we will be able to serve our patients in a more convenient, state-of-the-art facility.

Our priorities for the upcoming year are to continue as we have in the past. Key areas include continuing to:

• Work toward financial stability.

• Recruit additional faculty in key areas.

• Foster academic development of current faculty.

• Establish more efficient clinical care processes.

• Improve and expand our team of support staff.

• Publicize our unique clinical services.

• Expand our basic and translational research programs in wound healing, biocomputation, regenerative medicine, and clinical science.
Faculty

Michael J. Miller, M.D.
Professor of Surgery; Chief, Division of Plastic Surgery
B.S.: University of Massachusetts, Boston, Mass., 1978
M.D.: University of Massachusetts, Boston, Mass., 1982
Specialty Training: Berkshire Medical Center, Pittsfield, Mass.; Ohio State University Medical Center, Columbus, Ohio; Tulane University, New Orleans, La.
Appointment: 2007
Specialty Interests: Reconstructive surgery for patients deformed by cancer
Research Interests: Tissue repair and regeneration and applications of advanced technology in clinical surgery

James H. Boehmler, IV, M.D.
Assistant Professor of Surgery
B.A.: University of Chicago, Chicago, Ill., 1997
M.D.: University of Rochester, Rochester, N.Y., 2001
Specialty Training: Plastic surgery, Georgetown University, Washington, D.C., 2007; fellowship in reconstructive microsurgery, University of Texas M.D. Anderson Cancer Center, Houston, Texas, 2008
Appointment: 2008
Specialty Interests: Oncologic reconstructive surgery

Gayle M. Gordillo, M.D.
Associate Professor of Surgery
A.B.: Stanford University, Stanford, Calif., 1984
M.D.: The Ohio State University, Columbus, Ohio, 1990
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 1999
Specialty Interests: Burns, complex wounds
Research Interests: Angiogenesis

Gregory D. Pearson, M.D.
Assistant Professor of Clinical Surgery
B.S.: Ohio University, Athens, Ohio, 1994
M.D.: The Ohio State University, Columbus, Ohio, 1998
Specialty Training: Plastic surgery, The Ohio State University, Columbus, Ohio, 2004; Fellowship in craniofacial surgery, Riley Hospital for Children, Indianapolis, Ind., 2005
Appointment: 2005
Specialty Interests: Craniofacial disorders
Robert L. Ruberg, M.D.
Professor of Surgery; Senior Vice Chairman for Administrative Affairs, Department of Surgery
B.A.: Haverford College, Haverford, Pa., 1963
Specialty Training: Hospital of the University of Pennsylvania, Philadelphia, Pa.
Appointment: 1975
Specialty Interests: Breast surgery, children’s plastic surgery
Research Interests: Plastic surgery education, curriculum development

Anne Taylor, M.D.
Clinical Assistant Professor of Surgery
B.S.: Denison University, Granville, Ohio, 1986
M.D.: The Ohio State University, Columbus, Ohio, 1990
Specialty Training: Plastic surgery, The Ohio State University Medical Center, Columbus, Ohio, 1996
Appointment: 2007
Specialty Interests: Aesthetic surgery

Pankaj Tiwari, M.D.
Assistant Professor of Surgery
B.A.: Harvard University, Boston, Mass., 1995
M.D.: New York University, New York, N.Y., 2000
Specialty Training: Plastic surgery, Baylor College of Medicine, Houston, Texas, 2006; fellowship in reconstructive microsurgery, M. D. Anderson Cancer Center, Houston, Texas, 2007
Appointment: 2007
Specialty Interests: Aesthetic surgery and reconstructive microsurgery

William A. Wallace, Jr., M.D.
Assistant Professor of Clinical Surgery
B.S.: Oklahoma State University, Oklahoma City, Okla., 1995
M.D.: University of Oklahoma, Norman, Okla., 1999
Specialty Training: Plastic surgery, The Ohio State University Medical Center, Columbus, Ohio, 2007
Appointment: 2007
Specialty Interests: Body contouring
Emeritus Faculty

Ronald B. Berggren, M.D.
Professor Emeritus of Surgery
B.A.: Johns Hopkins University, Baltimore, Md., 1953
M.D.: University of Pennsylvania, Philadelphia, Pa., 1957

Clinical Faculty

Haroon A. Aziz, M.D.
Clinical Assistant Professor of Surgery
F.Sc.: Forman Christian College, Lahore, Pakistan, 1965
M.B.B.S.: King Edward Medical College, Lahore, Pakistan, 1970

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

Robert S. Houser, D.O.
Clinical Assistant Professor of Surgery
B.S.: The Ohio State University, Columbus, Ohio, 1993
D.O.: Ohio University, Athens, Ohio, 1997

Jason B. Lichten, M.D.
Clinical Instructor of Surgery
B.A.: Brandeis University, Waltham, Mass., 1993
M.D.: Jefferson Medical College, Philadelphia, Pa., 1998

James D. McMahan, M.D.
Clinical Instructor of Surgery
B.S.: University of Oregon, Eugene, Ore., 1979
M.D.: Oregon Health and Science University, Portland, Ore., 1983

Bivik R. Shah, M.D.
Clinical Assistant Professor of Surgery
M.D.: The Ohio State University, Columbus, Ohio, 1994
Timothy A. Treece, M.D.
Clinical Instructor of Surgery
B.S.: The Ohio State University, Columbus, Ohio, 1979
M.D.: The Ohio State University, Columbus, Ohio, 1982

Susan D. Vasko, M.D.
Clinical Instructor of Surgery
B.S.: The Ohio State University, Columbus, Ohio, 1979
M.S.: The Ohio State University, Columbus, Ohio, 1980
M.D.: The Ohio State University, Columbus, Ohio, 1986

Rafael E. Villalobos, D.O.
Clinical Assistant Professor of Surgery
B.S.: University of Maryland, Baltimore, Md., 1985
M.Sc.: University of Maryland, Baltimore, Md., 1987
D.O.: West Virginia School of Osteopathic Medicine, Lewisburg, W.Va., 1991

John K. Wakelin, M.D.
Clinical Instructor of Surgery
B.A.: Xavier University, Cincinnati, Ohio, 1996
M.D.: The Ohio State University, Columbus, Ohio, 2000

Resident Staff

Laura Figura, M.D.
PGY-5
B.S.: The Ohio State University, Columbus, Ohio, 2000
M.D.: The Ohio State University, Columbus, Ohio, 2004

Dana Goldberg, M.D.
PGY-5
B.S.: University of Notre Dame, South Bend, Ind., 2000
M.D.: The Ohio State University, Columbus, Ohio, 2004

Nabil Habash, M.D.
PGY-5
B.S.: Florida State University, Tallahassee, Fla., 1998
M.D.: University of North Carolina, Chapel Hill, N.C., 2003
Kevin Delaney, M.D.
PGY-4
B.A.: Miami University, Oxford, Ohio, 1996
M.D.: Northeastern Ohio Universities College of Medicine, Akron, Ohio, 2002

Stacey Francis, M.D.
PGY-4
B.S.: University of California at Los Angeles, Los Angeles, Calif., 2000
M.D.: The Ohio State University, Columbus, Ohio, 2005

K. Roxanne Grawe, M.D.
PGY-4
B.A.: Southern Methodist University, Dallas, Texas, 2000
M.D.: University of Texas Medical School at Galveston, Galveston, Texas, 2005

Mission and Vision

The mission of the Division of Plastic Surgery at The Ohio State University Medical Center is to restore wholeness to people who suffer 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

• Macrophage-derived oxidants promote hemangioma growth. Dr. Gayle Gordillo, Principal Investigator. Mentored Clinical Scientist Award (K08), National Institutes of Health, National Institute of General Medical Sciences, April 1, 2004 – March 31, 2008, $633,042.

Clinical Research Programs

• A multicenter, randomized, controlled trial examining cellular and tissue oxygenation levels related to various wound healing therapies Dr. Gayle Gordillo, Principal Investigator. KCI USA, Inc., $124,878.
• A prospective, multicenter, 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. Dr. Gayle Gordillo, Principal Investigator. U.S. Food and Drug Administration, Phase III, $195,304.

• Human tissue distribution of orally-supplemented natural vitamin E tocotrienol detects the presence of tocotrienol in various human tissues. Dr. Gayle Gordillo, Co-Principal 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. Dr. Gayle Gordillo, Co-Principal Investigator. Carotech, $600,000.

Translational Research Programs

• Identification of oxidation-reduction events in response to oxygen therapy. Dr. Gayle Gordillo, Co-Principal Investigator. This study is an ongoing translational research endeavor supported by a contract with GWR Medical, LLC.

• Gene expression profiles in healing and non-healing wounds. Dr. Gayle Gordillo, Principal Investigator. A large, multicenter translational research protocol being implemented at Ohio State and other wound-care centers in the National Healing Corporation network, the project 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 will 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 approved by the General Clinical Research Center at Ohio State and supports the data collection process.

• Mechanisms regulating wound vascularization. Dr. Gayle Gordillo, Clinical Core Director. A pilot study for the Program Project Initiative Grant to get preliminary data for a planned P50 Center grant submission to the National Institutes of Health, to establish a wound-healing Center of Excellence at Ohio State. 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, wrote the human subjects protocol, and supervised development of data management tools to support translational needs of four basic science investigators.

• Mechanisms underlying impaired diabetic wound healing. Dr. Gayle Gordillo, Co-Principal Investigator. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases, R01, $1,200,00. This is a translational protocol examining 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 Dr. Gordillo and Sashwati Roy, Ph.D.
Accomplishments in Research

• Dr. Gayle Gordillo was an invited speaker at multiple national society meetings and was awarded a new sponsored clinical trial with Sanuwave.

• Dr. Alok Sutradhar made presentations at the 10th National Congress on Computational Mechanics and was co-author of a paper titled “Modeling Oxygen Transport in Surgical Tissue Transfer” published in the July issue of the Proceedings of the National Academy of Sciences.

• Dr. Stacey Francis had her research, titled “Independent Risk Factors for Infection in Tissue Expander Breast Reconstruction,” accepted for presentation at the 52nd Annual Meeting of the Ohio Valley Society of Plastic Surgeons, in Indianapolis, Ind., May 15, 2009.

Active Research Grants


Clinical Programs

• Hemangioma and Vascular Malformation Clinic. Established and directed by Dr. Gayle Gordillo, the clinic provides comprehensive care to patients with hemangiomas and vascular malformations.

• Inpatient Wound Consult Service. Established and directed by Dr. Gayle Gordillo, the service provides expertise in the evaluation and management of inpatients with pressure ulcers, venous stasis ulcers, and diabetic foot ulcers. The service sees about 200 patients per year.

• Comprehensive Wound Center (CWC). Recognized by Ohio State’s Board of Trustees in 2004, the center was developed by Dr. Gayle Gordillo and Chandan Sen, Ph.D., 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 a leader in the field of tissue repair and wound management. The objectives and activities of the CWC adhere to guidelines of the NIH Road Map for Medical Research. The CWC was used as a centerpiece in the recently-funded OSU proposal for an NIH Clinical and Translational Science Award of $35 million.
Accomplishments in Clinical Care

- Growth of the Hemangioma and Vascular Malformation Clinic. The clinic has grown from two to four physician providers and includes two plastic surgeons, a dermatologist, and an otolaryngologist. The clinic has more than 400 patient visits per year.

- Dr. Gayle Gordillo serves as principal investigator or co-principal investigator of three sponsored clinical trials.

- Establishment of a new Hand Center, under the direction of Dr. Michael Ruff, located at Gowdy Field.

Clinical Statistics

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<td>OR Procedures</td>
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<td>Outpatient Visits</td>
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<td>Admissions</td>
<td>372</td>
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<td>Patient Days</td>
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<td>Average Length of Stay (Days)</td>
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Educational Programs

- Plastic surgery residency training program.

Accomplishments in Education

- Dr. Gayle Gordillo served as chairman of the Plastic Surgery Educational Foundation Basic Science Grant Review Session, in Beverly Hills, Calif., March 15, 2009

- Dr. Gayle Gordillo served as a faculty member for the Plastic Surgery Education Foundation Research Grant Writing Workshop, in Pittsburgh, Pa., May 31, 2009.

- Dr. Gayle Gordillo, Dr. Robert Ruberg, and Dr. Anne Taylor served as examiners for the American Board of Plastic Surgery, in Phoenix, Ariz., November 13–14, 2008.

• Dr. Gregory Pearson received the $5,000 CRANIO (Craniofacial Region Added New Information Opportunity) Fellowship of the American Society of Maxillofacial Surgeons in 2008.

Accomplishments in Community Outreach

• Dr. Michael Miller and Dr. Robert Ruberg were nominees in 2008 for the Business First Health Care Heroes Award.

• A Medical Center press release on immediate breast reconstruction that quoted Dr. Michael Miller was issued June 12, 2009.

• Dr. Michael Miller was interviewed June 10, 2009, by Ohio New Network, about breast reconstruction following mastectomy.

• Dr. Gayle Gordillo served on the panel for the Women in Medicine program at The Ohio State University Medical Center, February 19, 2009.

• Dr. Gayle Gordillo was guest speaker at the March 4, 2009 meeting of the Ohio State University chapter of Alpha Epsilon Delta, the premedical honor society, in Columbus, Ohio.

Publications


Books


International Presentations


National Presentations


Gordillo GM. Pressure ulcer prevention at The Ohio State University Medical Center: a comprehensive approach. University Health System Consortium, Analyst Café Webcast, April 23, 2009.

Gordillo GM. Pressure ulcer prevention at The Ohio State University Medical Center: a comprehensive approach. University Health System Consortium, Pressure Ulcer Benchmarking Knowledge Transfer Meeting, Oak Brook, Ill., February 13, 2009.


Miscellaneous Presentations


Miller MJ. Appearance: personalizing women’s health through menopause and beyond. The Ohio State University, Columbus, Ohio, February 28, 2009.

Miller MJ. Craniomaxillofacial operating room personnel course. AO North America, Cleveland, Ohio, September 6, 2008.

Miller MJ. Microvascular surgery for cancer patients. Columbus Chapter, Oncology Nursing Society, 20th Annual Spring Conference, Columbus, Ohio, April 17, 2009.
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 goal is to provide excellence in clinical cancer care; to educate medical students, residents, 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.

This year the division recruited two new attending faculty. Dr. William Kraybill joined the division May 1, 2009, following a distinguished career at the Roswell Park Cancer Institute, where he led the melanoma and sarcoma service for more than 17 years. Dr. Kraybill has vast experience in research, as well as the treatment of melanoma and sarcoma. He serves on a number of Radiation Therapy Oncology Group committees, and was recently inducted into the American Surgical Society. Dr. Carl Schmidt, previously a fellow in surgical oncology at Memorial Sloan-Kettering Cancer Center, in New York, N.Y., began an appointment July 1, 2008, as assistant professor of surgery in the division. Dr. Schmidt was active this year in GI oncology and melanoma. He is interested in clinical trial research, and recently completed a course on this topic sponsored by the American Association of Clinical Oncology.

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 and continues to lead our weekly multi-modality breast meeting. Dr. Agnese has served as a resident mentor for the past three years, and is on the clinical subcommittee of the Center for Women’s Health. She recently presented a paper at the annual meeting of the Society of Surgical Oncology, where she dis-
discussed contralateral prophylactic mastectomies. She serves as a reviewer for the European Journal of Surgical Oncology.

Dr. Mark Bloomston continues to lead our GI surgical oncology program. He was recently appointed as director of translational research in liver cancer and also serves as director of the surgical oncology fellowship program. This year, he received the James IV Surgical Association Traveling Fellowship Award. He serves on the biliary cancer guidelines committee of the National Cooperative Cancer Network. A mentor to many residents and medical students, he served as a mentor to Dr. Mary Dillhoff, a general surgery resident who completed the Master of Medical Science Program this year. Dr. Bloomston recently received a National Institutes of Health K12 award for his work titled “Translational Training Grant in Experimental Therapeutics.” He continues to make numerous local and national presentations in GI oncology.

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 directs the institutional review board at the James and continues as co-director of the clinical trials office. Dr. Carson has been instrumental in increasing clinical trial activity at the James this year, and through his efforts has made the cancer hospital a leader in clinical trial participation. He holds numerous grants, and recently received an NIH K24 award and an NIH/NCICP01 award. Dr. Carson recently concluded an NIH/NCIR21 award titled “The Therapy of Melanoma and Basismad Interferon-Alpha.”

Dr. Edward Martin is an international leader in gastrointestinal cancer and continues to evaluate the detection of recurrent colon cancer. He participates in an R21 grant titled “The Probe-Assisted PET CT-Guided Surgery for Colon Cancer,” and received an R01 grant for “The Integrated System for Tumor Detection and Targeting Drug Therapy of Cancer.” A prolific author, Dr. Martin has authored more than 200 publications, eight of which were published this year. His research has also resulted in numerous national presentations, and one of his papers has been accepted for presentation next 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. 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 of 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 perioperative PET/CT imaging and intraoperative hand-held gamma probe detection of neuroendocrine and occult disease in patients undergoing surgery for solid malignancy. Dr. Povoski was appointed principal investigator for the Lymphoseek program. He continues to serve on a number of editorial boards, and was recently named editor of the World Journal of Surgical Oncology.

Dr. Lisa Yee, an excellent clinician and researcher, has a number of translational 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.

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 is co-director of the JamesCare Breast Center at Stoneridge, a comprehensive center that makes available all the aspects of the breast cancer diagnosis during one clinic visit, providing mammography, ultrasound, stereotactic breast biopsy, MRI, and outpatient techniques. He recently completed six years of service on the Commission on Cancer of the American College of Surgeons, and he 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 he also serves on the leadership council, which is working toward a major expansion of the James. Dr. Farrar has been listed by Best Doctors in America for seven years.

Dr. Wiley W. “Chip” Souba, Jr. continues to serve as dean of the College of Medicine and vice president for health sciences at The Ohio State University Medical Center.

Dr. Suhail Sharif completed the two-year fellowship in surgical oncology this year and accepted a faculty appointment at the University of North Texas/Plaza Medical Center, in Fort Worth, Texas.
Faculty

**William B. Farrar, M.D.**
Professor of Surgery; Chief, Division of Surgical Oncology; the Arthur G. and Mildred C. James/Richard J. Solove Chair in Surgical Oncology

**B.A.:** Illinois Wesleyan University, Bloomington, Ill., 1971

**M.D.:** University of Virginia, Charlottesville, Va., 1975

**Specialty Training:** The Ohio State University, Columbus, Ohio; Memorial Sloan-Kettering Cancer Center, New York, N.Y.

**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)

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**Doreen M. Agnese, M.D.**
Assistant Professor of Surgery and Internal Medicine

**M.D.:** University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, N.J., 1993

**Specialty Training:** General surgery internship and residency, research fellowship, University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School, Piscataway, N.J.; fellowship in surgical oncology and clinical cancer genetics, The Ohio State University, Columbus, Ohio

**Appointment:** 2004

**Specialty and Research Interests:** Breast cancer, melanoma, cancer genetics, all aspects of surgical oncology

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**Mark Bloomston, M.D.**
Assistant Professor of Surgery

**B.S.:** Florida State University, Tallahassee, Fla., 1992

**M.D.:** University of South Florida, Tampa, Fla., 1997

**Specialty Training:** Internship, residency, and research fellowship in general surgery, University of South Florida, Tampa, Fla.; fellowship in surgical oncology, Ohio State University Medical Center, Columbus, Ohio

**Appointment:** 2006

**Specialty and Research Interests:** Pancreatic and alimentary tract cancers
William E. Carson, Ill, M.D.
Associate Professor of Surgery
B.S.: University of California, Irvine, Calif., 1982
M.D.: University of Southern California, Los Angeles, Calif., 1986
Specialty Training: University of California, Irvine, Calif.; Roswell Park Cancer Institute, Buffalo, N.Y.
Appointment: 1997
Specialty Interests: Breast cancer
Research Interests: The role of natural killer cells in septic shock

William G. Kraybill, M.D.
Professor of Surgery
B.A.: Earlham College, Richmond, Ind., 1965
M.D.: University of Cincinnati, Cincinnati, Ohio, 1969
Specialty Training: University of Oregon Health Sciences Center, Portland, Ore.
Appointed: 2008
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., M.D.
Professor of Surgery
B.S.: Ohio University, Athens, Ohio, 1967
M.D.: Meharry Medical College, Nashville, Tenn., 1972
Specialty Training: National Institutes of Health training, The Ohio State University, Columbus, Ohio; American Cancer Society Advanced Fellowship, The Ohio State University, Columbus, Ohio
Appointment: 1977
Specialty Interests: Gastrointestinal malignancies
Research Interests: Radioimmunoguided surgery, tumor markers, biologic response modifiers, liver metastatic model, dormant cancer cells, vaccines
Stephen P. Povoski, M.D.
Associate Professor of Surgery
B.S.: State University of New York, Buffalo, N.Y., 1985
M.D.: State University of New York Health Science Center, Syracuse, N.Y., 1989
Specialty Training: University of Cincinnati Medical Center, Cincinnati, Ohio; Memorial Sloan-Kettering Cancer Center, New York, N.Y.
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, M.D., M.S.C.I.
Assistant Professor of Clinical Surgery
B.S.: University of Michigan, Ann Arbor, Mich., 1995
M.D.: University of Michigan, Ann Arbor, Mich., 1999
Specialty Training: General surgery residency, Vanderbilt University Medical Center, Nashville, Tenn.; surgical oncology fellowship, Memorial Sloan-Kettering Cancer Center, New York, N.Y.
Appointment: 2008
Specialty Interests: Gastrointestinal and hepatobiliary malignancies
Research Interests: Novel therapeutic strategies and imaging modalities for metastatic liver tumors

Wiley W. “Chip” Souba, Jr., M.D.
Professor of Surgery; Dean, The Ohio State University College of Medicine; Vice President for Health Sciences, The Ohio State University Medical Center
B.S.: Muskingum College, New Concord, Ohio, 1975
M.D.: University of Texas, Houston, Texas, 1978
M.B.A.: Boston University School of Management, Boston, Mass., 1998
Specialty Training: Residency in surgery, University of Texas, Houston, Texas; fellowship, Brigham and Women’s Hospital and the Dana-Farber Cancer Institute, Boston, Mass.; fellowship, University of Texas M.D. Anderson Cancer Center, Houston, Texas
Appointment: 2006
Specialty Interests: Leadership development; the academic medicine environment
Research Interests: Metabolism of glutamine
Lisa D. Yee, M.D.
Associate Professor of Surgery
B.A.: University of California, San Diego, Calif., 1982
M.D.: Yale University, New Haven, Conn., 1986
Specialty Training: Mount Sinai Medical Center, Miami, Fla.
Appointed: 1996
Specialty Interests: General surgical oncology
Research Interests: Tumor progression and metastasis

Resident Staff

Sherif Abdel-Misih, M.D.
PGY-6
M.D.: Jefferson Medical College, Philadelphia, Pa., 2003

Suhail Sharif, M.D.
PGY-7
B.S.: University of Illinois, Chicago, Ill., 1996
M.D.: University of Guadalajara, San Antonio, Texas, 2000

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 36 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 – May 31, 2010, $100.


**Bloomston M.** A randomized, phase II trial comparing transarterial chemoembolization (TACE) to selective internal radiotherapy (SIRT) for unresectable carcinoid hepatic metastases. National Institutes of Health, National Cancer Institute, July 1, 2008 – June 30, 2010, $35,000/year.


**Carson WE III.** Modulation of tumor CEA levels for an anti-CEA vaccine. National Cancer Institute, May 18, 2005 – April 30, 2009, $583,587.


**Carson WE III.** A phase 1 trial of IL-21 in combination with weekly paclitaxel and trastuzumab in patients with HER2-positive malignancies. Mary Kay Ash Charitable Foundation, August 1, 2006 – July 31, 2008, $100,000.


Carson WE III. Therapy of melanoma with bortezomib and interferon-alpha. National Cancer Institute, April 1, 2006 – February 28, 2009, $523,031.

Carson WE III. Tumor immunology. National Cancer Institute, June 1, 2008 – May 31, 2013, $224,780.


Povoski SP, McKenney RR. A phase 3, prospective, open-label, multicenter comparison study of Lymphoseek and vital blue dye as lymphoid tissue targeting agents in patients with known melanoma or breast cancer who are undergoing lymph node mapping. Neoprobe Corp., December 3, 2008 – June 30, 2010, $874.


Walker MJ. Prospective study of the natural history of subjects who were entered in the MMAIT-03-011 and MMAIT-04-001 trials and underwent postoperative therapy with the BCG plus placebo or BCG plus Canvaxin. John Wayne Cancer Institute, April 1, 2007 – March 31, 2009, $8,125.
Walker MJ, Agnese D. A phase 3, multi-center, 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 – May 31, 2009, $11,430.


Xu RX, Povoski S. Development of an integrated dynamic breast imaging system for the early detection of breast cancer. Wallace H. Coulter Foundation, September 1, 2006 – August 31, 2009, $228,932.

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.

Accomplishments in Clinical Care

• Attending faculty in the division performed 1,748 operating room procedures and received 26,105 outpatient visits.

Clinical Statistics

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<td>OR Procedures</td>
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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. Suhail Sharif.

Publications


**Abstracts**


Chapters


International Presentations


National Presentations


Miscellaneous Presentations

Agnese DM. Assessment and management of women at elevated breast cancer risk. The Ohio State University Medical Center, Women’s Health Symposium, Columbus, Ohio, February 28, 2009.

Agnese DM. Case presentations. The Ohio State University Medical Center, Melanoma Symposium, Columbus, Ohio, February 28, 2009.

Agnese DM. Melanoma. The Ohio State University, MedNet21 Continuing Medical Education Program, Columbus, Ohio, October 24, 2008.

Bloomston M. Frankly speaking about colon cancer. The Wellness Community, Columbus, Ohio, September 23, 2008.


Bloomston M. The role of microRNAs in foregut malignancies. The Ohio State University Comprehensive Cancer Center, Scientific Symposium, Columbus, Ohio, February 20, 2009.

Bloomston M. The surgical and non-surgical management of neuroendocrine carcinoma. The Ohio State University Medical Center, Department of Surgery, Grand Rounds, Columbus, Ohio, February 19, 2009.

Carson WE III. Clinical cancer research: history and future. The Ohio State University, Comprehensive Cancer Center, Grand Rounds, Columbus, Ohio, September 19, 2008.

Carson WE III. Clinical research at The Ohio State University Comprehensive Cancer Center. The Ohio State University, Comprehensive Cancer Center, External Scientific Advisory Board, Columbus, Ohio, November 17, 2008.


Farrar WB. Papillary cancer of thyroid: painful discussion. The Ohio State University Medical Center, Ernest L. Mazzaferri Thyroid Cancer Conference, Columbus, Ohio, November 7, 2008.

Povoski SP. Breast diseases. Columbus Comprehensive Review, Columbus, Ohio, September 21, 2008.
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, Ph.D., professor of surgery, director of the Tissue Typing Laboratory, and 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 Dr. Ronald Pelletier continued his National Institutes of Health-funded work on chronic 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 division’s initiative for clinical transplantation of islet cells into Type 1 diabetic patients is conducting evaluations of patients for the islet cell transplant waiting list. The division continues to conduct clinical trials examining new and innovative immunosuppressive regimens in the post-transplant patient.

Members of the division faculty continue to participate in national organizations, including the American Society of Transplant Surgeons, the United Network for Organ Sharing, and the Vascular Access Society of the Americas.
In February 2009, Dr. Ronald Ferguson, executive director of the Comprehensive Transplant Center, retired and was appointed professor emeritus of surgery.

In July 2008, Dr. Yusuf Gunay, previously a resident at Ankara Numune Education and Research Hospital, in Ankara, Turkey, and Dr. Srinivas Samavedi, previously a resident in urology at Nizam’s Institute of Medical Sciences, in Hyderabad, India, began the fellowship in transplantation. In June 2009, Dr. Khaled Obeidat completed the fellowship in transplantation and began a fellowship in hepatobiliary surgery and surgical oncology at Mount Sinai Medical Center, in New York, N.Y.
Faculty

**Mitchell L. Henry, M.D.**
Professor of Surgery; Chief, Division of Transplantation; Deputy Director of Surgical Services, Comprehensive Transplant Center  
**B.S.:** University of Nebraska, Lincoln, Neb., 1976  
**M.D.:** University of Nebraska, Omaha, Neb., 1979  
**Specialty Training:** The Ohio State University, Columbus, Ohio  
**Appointment:** 1985  
**Specialty Interests:** Transplantation, immunosuppression  
**Research Interests:** Pancreatic transplantation, xenotransplantation

**Kenneth A. Andreoni, M.D.**
Associate Professor of Surgery; Director, Liver Transplantation  
**B.S.:** Georgetown University, Washington, D.C., 1984  
**M.D.:** Yale University, New Haven, Conn., 1988  
**Specialty Training:** Residency in surgery and fellowship in gastrointestinal surgery, Johns Hopkins University Hospital, Baltimore, Md.; fellowship in clinical transplantation, The Ohio State University Medical Center, Columbus, Ohio  
**Appointment:** 2008  
**Specialty Interests:** Liver transplantation  
**Research Interests:** New anti-rejection drugs, antibody-mediated injury to liver, kidney grafts

**Ginny L. Bumgardner, M.D., Ph.D.**
Professor of Surgery; Associate Dean for Research Education, College of Medicine; Director, Master of Medical Science Program  
**B.S.:** College of William and Mary, Williamsburg, Va., 1979  
**M.D.:** University of Virginia, Charlottesville, Va., 1983  
**Ph.D.:** University of Minnesota, Minneapolis, Minn., 1994  
**Specialty Training:** University of Minnesota, Minneapolis, Minn.; University of California at San Francisco  
**Appointment:** 1993  
**Specialty Interests:** Transplantation, immunosuppression, post-transplant pregnancy, liver disease and transplantation  
**Research Interests:** Transplantation immunology, liver immunobiology, cellular transplantation
Elizabeth Ann Davies, M.D.
Clinical Assistant Professor of Surgery
B.S.: University of Akron, Akron, Ohio, 1979
M.D.: Northeastern Ohio Universities, Rootstown, Ohio, 1983
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 1993
Specialty Interests: Transplantation, immunosuppression
Research Interests: Transplantation, organ procurement

Elmahdi A. Elkhammas, M.D.
Associate Professor of Clinical Surgery
M.D.: Gar-Younis University, Benghazi, Libya, 1977
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 1991
Specialty Interests: Transplantation, immunosuppression
Research Interests: Liver transplantation, urologic complications

Gregg A. Hadley, Ph.D.
Professor of Surgery; Director, Tissue Typing Laboratory; Deputy Director of Research, Comprehensive Transplant Center
B.S.: Purdue University, West Lafayette, Ind., 1975
M.S.: University of Iowa, Iowa City, Iowa, 1979
Ph.D.: University of Minnesota, Minneapolis, Minn., 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, M.D.
Associate Professor of Surgery; Director, Kidney Transplantation
B.S.: Trinity College, 1979
M.D.: University of Cincinnati, Cincinnati, Ohio, 1987
Specialty Training: The Ohio State University, Columbus, Ohio
Appointment: 1996
Specialty Interests: Pre- and post-transplant immune status monitoring
Research Interests: Pathophysiology of chronic rejection
Amer Rajab, M.D., Ph.D.
Assistant Professor of Surgery; Director, Pancreas and Islet Transplantation
M.D.: Damascus University, Damascus, Syria, 1983
Ph.D.: Lund University, Lund, Sweden, 1991
Specialty Training: University of Texas Southwestern Medical Center, Dallas, Texas
Appointment: 2001
Specialty Interests: Organ transplantation
Research Interests: Islet transplantation

Emeritus Faculty

Ronald M. Ferguson, M.D., Ph.D.
Professor Emeritus of Surgery
B.S.: Augsburg College, Minneapolis, Minn., 1967
M.D.: Washington University, St. Louis, Mo., 1971
Ph.D.: University of Minnesota, Minneapolis, Minn., 1982

Fellows

Yusuf Gunay, M.D.
Transplantation Fellow/Clinical Instructor of Surgery
M.D.: Ankara University, Ankara, Turkey, 1999

Khaled A. Obeidat, M.D.
Transplantation Fellow/Clinical Instructor of Surgery
M.D.: Jordan University of Science and Technology, Irbid, Jordan, 1997

Srinivas Samavedi, M.D.
Transplantation Fellow/Clinical Instructor of Surgery
M.D.: Kakatiya Medical College, Warangal, India, 1992
Resident Staff

**Tamara Blair, D.O.**  
PGY-4, Doctors Hospital  
**D.O.:** Des Moines College of Osteopathic Medicine, Des Moines, Iowa, 2005

**Naomi Chen, M.D.**  
PGY-3, Riverside Methodist Hospital  
**B.S.:** The Ohio State University, Columbus, Ohio, 2003  
**M.D.:** The Ohio State University, Columbus, Ohio, 2006

**Melissa Kinder, M.D.**  
PGY-3, Mount Carmel Health System  
**B.S.:** Butler University, Indianapolis, Ind., 2002  
**M.D.:** Southern Illinois University, Chicago, Ill., 2006

**Eric Knapp, D.O.**  
PGY-4, Doctors Hospital  
**D.O.:** Nova Southeastern University, Fort Lauderdale-Davie, Fla., 2005

**Juan LeHoux, M.D.**  
PGY-3, Riverside Methodist Hospital  
**M.D.:** Pontificia Universidad Catolica Madre y Maestra, Santiago, Dominican Republic, 2003

**Nicholas Limperos, M.D.**  
PGY-3, Mount Carmel Health System  
**B.S.:** Mount Union College, Alliance, Ohio, 2002  
**M.D.:** Northeastern Ohio University, Rootstown, Ohio, 2006

**Andrew Pearson, D.O.**  
PGY-4, Doctors Hospital  
**D.O.:** Kansas City College of Osteopathic Medicine, Kansas City, Mo., 2005

**Steven Reitz, M.D.**  
PGY-3, Mount Carmel Health System  
**B.A.:** Albion College, Albion, Mich., 2000  
**M.D.:** Medical University of Ohio, Toledo, Ohio, 2006

**Brian Santin, M.D.**  
PGY-3, Mount Carmel Health System  
**B.S.:** The Ohio State University, Columbus, Ohio, 2002  
**M.D.:** The Ohio State University, Columbus, Ohio, 2006
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, Ph.D.**, professor of surgery, director of the Tissue Typing Laboratory, and deputy director of research in the Comprehensive Transplant Center, continues his research program on immunologic mechanisms of transplant rejection and graft-versus-host disease pathology, and development of novel strategies for therapeutic intervention in these processes.

- **Investigations Funded by the National Institutes of Health.** Dr. Ronald Pelletier continues the division’s NIH-funded 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. Newly-acquired NIH funding for 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. Studies include a research project that focuses on understanding how a novel CD8+ T cell-dependent pathway is activated after transplant, and how its activation and effector function can be suppressed by immunotherapy in primary and sensitized transplant recipients. 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. 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 are a specific focus for investigation. Our lab is also investigating CD4-dependent humoral immune pathways of allograft damage. It is important to understand the differences in immune mechanisms which damage specific types of cellular or solid organ allografts, since we have previously published that different tissues evoke disparate mechanisms of allograft damage. 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


**Elkhammas EA, Ferguson RM, Henry ML, Pelletier RP.** A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation. Novartis Pharmaceuticals Corp., February 17, 2004 – June 30, 2010, $8,175.


Ferguson RM. Thymoglobulin antibody immunosuppression in living donor recipients (TAILOR patient registry). Transplant Informatics Institute, April 5, 2005 – October 1, 2008, $86,000.


Ferguson RM, Henry ML, Pelletier RP, Rajab A. A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation. Novartis Pharmaceuticals Corp., February 17, 2004 – June 30, 2010, $10,923.


Ferguson RM, Pelletier RP, Henry ML, Rajab A. A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation. Novartis Pharmaceuticals Corp., February 17, 2004 – June 30, 2010, $14,500.

Hadley GA. Blockade of CS103 as a means to prevent tubular injury following allogeneic renal transplantation. American Society of Transplantation, July 1, 2007 – June 30, 2009, $80,000.


Horne PH, Bumgardner GL. CD4-independent, CD8+ T cell-mediated alloimmunity studied through a hepatocellular allograft model. American Society of Transplantation, July 1, 2006 – June 30, 2009, $30,000.


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

- Auto-Islet Transplantation. A milestone in clinical care was achieved when the first auto-islet transplant was performed at Ohio State in November 2008, serving as an innovative treatment modality for pancreatitis. In a collaborative effort between the Division of General and Gastrointestinal Surgery and the Division of Transplantation, Dr. Scott Melvin removed the patient’s pancreas, which was
then transported to a specialized islet isolation lab. There, Dr. Rajab and his team processed the pancreas to isolate the islets. The cells were then returned to the operating room, where Dr. Rajab infused them into the patient’s liver. There, the cells graft, mimic the function of the removed pancreas, and preserve the patient’s ability to secrete insulin. Using the patient’s own islet cells eliminates any threat of rejection and substantially reduces the risk of the patient developing diabetes. The patient from the first procedure is doing very well, and another auto-islet transplant was performed in May 2009, which also produced excellent results. There are several candidates being screened for the procedure, and subsequent transplants are planned for the near future.

- **Pediatric Transplant Program.** As director of Pediatric Transplantation, Dr. Rajab this year worked to enhance the transplant program at Nationwide Children’s Hospital. Six kidney transplants were performed, and the Midwest Pediatric Nephrology Regional Conference was held in Columbus in March 2009. At the conference, which was attended by nephrologists, surgeons, radiologists, and nurses involved in the care of pediatric patients, and well as many families, Dr. Rajab presented a talk titled “Getting the Right Donor for the Pediatric Renal Transplant Patient: Living and Deceased Donors.” In addition, using the expertise gained over many years, Dr. Rajab has implemented successful immunosuppressive regimens in his pediatric patients, and was an author of a paper titled “Steroid Avoidance Using Sirolimus and Cyclosporine in Pediatric Renal Transplantation: One-Year Analysis,” which was published in Pediatric Transplantation.

- **Living Donor Kidney Transplant Program.** This year, a dedicated effort by the pre-transplant coordinators, the transplant surgeons, and the nephrologists resulted in 101 living donor kidney transplants.

- **Sequential Pancreas Transplant Program.** Continued efforts to focus on a sequential pancreas transplant program resulted in eight 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, 17 combined kidney-pancreas transplants were performed this year, allowing the recipients to be cured of both diseases by a single transplant procedure.

**Clinical Statistics**

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
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<tbody>
<tr>
<td>OR Procedures</td>
<td>905</td>
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<tr>
<td>Outpatient Visits</td>
<td>9,940</td>
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<tr>
<td>Admissions</td>
<td>758</td>
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<tr>
<td>Patient Days</td>
<td>5,128</td>
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<tr>
<td>Average Length of Stay (Days)</td>
<td>6.77</td>
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</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. The 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

• Dr. Mitchell Henry participated as a faculty member at the Vascular Access Society of the Americas Practicum Course, May 6–9, 2009, in Portland, Ore. The program provided current information regarding the diagnosis, preservation, salvage, and management of vascular access and its complications to the surgeons, interventional nephrologists, radiologists, and ancillary personnel in attendance. Dr. Henry participated in the lecture events, and moderated procedures and didactic sessions.

• The Division of Transplantation was well represented at the 2009 American Transplant Congress, May 30 – June 3, 2009, in Boston, Mass. This joint meeting between the American Society of Transplant Surgeons and the American Society of Transplantation is the foremost educational event in the field of basic and clinical transplantation. At this year’s meeting, the division’s faculty members chaired plenary sessions and presented orally, and their combined efforts resulted in 18 abstracts being accepted for the event. An additional abstract was accepted from Dr. Gregg Hadley’s lab.
• Dr. Mitchell Henry has created learning modules for the organ procurement unit in the national transplant surgery fellowship curriculum currently being developed by the American Society of Transplant Surgeons (ASTS). The curriculum will define the key areas of knowledge necessary for mastery of the field of transplantation surgery, and when complete, this ASTS Academic Universe will contain more than 200 learning modules. Dr. Henry’s text addresses the limits of organ preservation and the attendant risk of organ dysfunction over time, as well as the basic principles of pulsatile kidney perfusion. His contributions provide necessary information for trainees as they progress through their fellowship, and will serve as a dynamic reference for ASTS members.

• Dr. Kenneth Andreoni has created a learning module for the organ procurement unit in the national transplant surgery fellowship curriculum. Dr. Andreoni’s project addresses public policy and allocation of organs, and discusses the National Organ Transplantation Act and the medical-legal ramifications for transplant professionals.

• Dr. Khaled Obeidat completed the two-year fellowship in solid organ transplantation and accepted a fellowship position in hepatobiliary surgery at Mount Sinai Medical Center, in New York, N.Y.

• Dr. Yusuf Gunay and Dr. Srinivas Samavedi joined the transplant team as the junior fellows in the ASTS-approved fellowship training program.

• The division continues to distribute a CD-ROM for resident education. The CD 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. Ginny Bumgardner is associate dean for research education and graduate studies in the College of Medicine. She participates as a member of Ohio State’s Center for Clinical and Translational Science (CCTS) Community of Research Education.

• Dr. Ginny Bumgardner is director of the College of Medicine’s Master of Medical Science Program.

• Dr. Ginny Bumgardner is the research advisor and mentor for postdoctoral trainee Jason Zimmerer, Ph.D., who this year received a competitive National Institutes of Health F32 research fellowship award; Lori Fiessinger, a premedical undergraduate honors student, who graduated this year from the Biology Honors Program and will be entering medical school at the Cleveland Clinic Lerner College of Medicine; and Leslie King, a medical student who received a Roessler Research Scholarship.
• Jason Zimmerer, Ph.D., presented results of his research project in June at the 2009 American Transplant Congress in Boston, Mass., and he has three manuscripts in review.

• Phillip Horne, Ph.D., who completed his doctoral degree training in Dr. Bumgardner’s laboratory, recently graduated after completing eight years in the M.D./Ph.D. dual degree program. Phillip was the first author of four manuscripts (two in the Journal of Immunology, one in Transplantation, one in Cell Transplantation) and co-authored several other manuscripts.

• Dr. Thomas Pham, a PGY-2 surgery resident, will be a clinical postdoctoral research fellow in Dr. Ginny Bumgardner’s laboratory and will pursue a master of medical science degree. In June, he attended the 2009 American Transplant Congress, in Boston, Mass., to receive the American Society of Transplant Surgeons-National Kidney Foundation Folkert Belzer Research Award, which will support his research training.

Community Outreach Programs

• Liver Transplantation. Dr. Kenneth Andreoni has instituted an outreach program offering lectures on the role of liver transplantation in end-stage liver disease patients, especially those with hepatocellular cancer. This outreach effort is designed 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 candidates for transplantation. In addition, he is providing information to referring physicians and patients on the 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, M.D.**

• Vice Chair, Kidney Committee, United Network for Organ Sharing.
• Chair, Subcommittee on National Kidney Paired Donation, United Network for Organ Sharing.
• Co-Chair, Subcommittee on Liver-Kidney Allocation, United Network for Organ Sharing.
• Chair, Kidney Subcommittee Reviewing Scientific Registry of Transplant Recipients Kidney Transplant Metrics, United Network for Organ Sharing.
• Member, Medical Advisory Board, Lifeline of Ohio Organ Procurement.

Ginny L. Bumgardner, M.D., Ph.D.
• Chair, Ad Hoc Work Force Committee, American Society of Transplant Surgeons (ASTS). The committee developed and distributed a survey to transplant surgeons of the ASTS to gather information about their demographics, educational and professional background, clinical activity, and professional productivity. The results of the survey have been submitted for publication.
• Co-Chair, Awards Committee, American Society of Transplant Surgeons (ASTS). The committee develops award guidelines and new awards for consideration by the ASTS Council. The ASTS awards committee annually reviews ASTS research applications and awards approximately $750,000.
• Associate Editor, Editorial Board, American Journal of Transplantation (AJT). Dr. Bumgardner has been an associate editor for AJT since 2007. AJT has an impact factor of 6.843, which is the highest ranking of transplantation journals.
• Member, Graduate Research Education and Training (GREAT). GREAT is a national organization that fosters the exchange of information and ideas among the faculty and administrative leaders of biomedical Ph.D., M.D.-Ph.D., and postdoctoral programs. GREAT also sponsors annual conferences on issues of importance in research education.
• Member, Allergy, Immunology, and Transplantation Research Committee (AITRC), National Institutes of Health (NIH), National Institute of Allergy and Infectious Diseases. The AITRC is an NIH study section that reviews training grants and individual research fellowship and career development awards.
• Co-Chair, Clinical Center for Translational Science (CCTS) Research Education Resources and Special Programs Committee, The Ohio State University. The committee has organized a CCTS T1 workshop series designed to connect basic scientists and clinicians working in related areas, in order to forge new research collaborations.

Elizabeth Ann Davies, M.D.
• Chair, Education Committee, International Society for Organ Preservation.

Elmahdi A. Elkhammas, M.D.
• 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, Ph.D.
• Member, Tumor, Transplantation, Tolerance Study Section, National Institutes of Health.
• Member, Scientific Advisory Committee, Roche Organ Transplantation Research Foundation.
• Associate Editor, American Journal of Transplantation.
• Editorial Board, Transplantation.
Mitchell L. Henry, M.D.
- Council Member, American Society of Transplant Surgeons.
- Secretary, Board of Directors, United Network for Organ Sharing.
- President Elect, Vascular Access Society of the Americas.
- Senior Advisor, Vanguard Committee, American Society of Transplant Surgeons.

Ronald P. Pelletier, M.D.
- 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


Visiting Professorships

International Presentations

Elkhammas EA. Kidney-pancreas transplantation. Libyan Diabetes and Endocrinology Association, Tripoli, Libya, April 7–9, 2009.


National Presentations


Henry ML. Pro-con debate: subclavian vein angioplasty: a good solution that buys time vs. so bad it should rarely be done. Controversies in Dialysis Access, Washington, D.C., October 21, 2008.


Miscellaneous Presentations

Andreoni KA. Liver function and care post-transplantation. The Ohio State University Medical Center, Transplant Coordinators In-service, Department of Surgery, Columbus, Ohio, June 19, 2009.

Andreoni KA. Liver transplantation: understanding the options in hepatocellular carcinoma. The Ohio State University Medical Center, Department of Surgery, Grand Rounds, Columbus, Ohio, October 9, 2008.

Andreoni KA. Liver transplantation: who needs it and who benefits from it? The Ohio State University Medical Center, Department of Medicine, Grand Rounds, Columbus, Ohio, March 26, 2009.

Andreoni KA. Liver transplantation for HCC. The Ohio State University Comprehensive Cancer Center, the James Cancer Hospital and Solove Research Institute, Liver Cancer 2009: Update on the Evaluation and Management of Hepatocellular Cancer, Columbus, Ohio, April 25, 2009.

Andreoni KA. Who should be considered for liver transplantation and current options for hepatocellular carcinoma. Smith Clinic, Grand Rounds, Marion, Ohio, May 21, 2009.

Davies EA. Organ donor management. Lifeline of Ohio Organ Procurement, Mini-Module 2009, Columbus, Ohio, April 21, 2009.
Henry ML. (Discussant). MIS approach for liver donors. The Ohio State University Medical Center, Ohio State University-University of Michigan Debate, Advanced Concepts in Surgery, Columbus, Ohio, November 21, 2008.

Pelletier RP. The natural history of AMR. Great Lakes Transplant Immunology Forum, Columbus, Ohio, September 18, 2008.

Pelletier RP. Overview of humoral immunity: what’s so funny about peace, love and understanding (of humoral immunity)? Comprehensive Transplant Center Seminar, Columbus, Ohio, January 14, 2009.

Rajab A. Getting the right donor for the renal transplant patient: living and deceased donors. Comprehensive Transplant Center Seminar, Columbus, Ohio, May 27, 2009.

Rajab A. Getting the right donor for the pediatric renal transplant patient: living and deceased donors. Nationwide Children’s Hospital, 2009 Midwest Pediatric Nephrology Regional Conference, Columbus, Ohio, March 12, 2009.

Several exciting changes occurred in the Division of Vascular Diseases and Surgery this year. Dr. Michael Go became our youngest associate in July 2008. Michael did his general surgical training at The Ohio State University Medical Center and a two-year vascular fellowship at the University of Pittsburgh. He has brought new endovascular skills and unbridled enthusiasm to our division, and has rapidly become one of our busiest clinical surgeons. He has embarked on several basic science research projects, working on stem cell therapy for advanced chronic limb ischemia, in collaboration with Dr. Vincent Pompili, professor of cardiovascular medicine. A second exciting change is the recruitment of Cameron Rink, Ph.D., to our basic science program, whose appointment will begin July 1. He will fill the position vacated by Dr. Pedram Ghafourifar, who resigned his appointment last year. One of Dr. Rink’s areas of interest is the therapeutic role provided by supplemental oxygen in wound healing, particularly in a canine stroke model.

Our clinical volumes remain high, as does our level of patient satisfaction. Dr. Jean Starr continues to expand our endovascular program, and has added two clinical trials to our repertoire: the Abbott Vascular Hercules renal stent trial, and the Boston Scientific Orion iliac stent trial. She has been active in enrolling patients in the Rheos trial for the treatment of refractory hypertension.

Dr. Smead continues to perform a high volume of open vascular procedures, and he also treats patients with venous disease. This year, he was included on the list compiled by Best Doctors, Inc. He receives high praise from the residents for his teaching.

Dr. Blair Vermilion continues to expand our care of patients with venous disease, while remaining involved in quality issues concerning the division, the department, and Ohio State’s Medical Center. In August 2008, he received the Surgeon of the Month Award from the Richard M. Ross Heart Hospital. He is an effective teacher, and receives high praise from the resident staff.
Dr. Mohan Das continues to increase our penetration into University Hospital East, and he has made great headway. He receives excellent evaluations of his teaching from the resident staff.

Dr. Bhagwan Satiani continues to conduct his seminar in practice management and to direct the noninvasive vascular lab. In November 2008, he conducted a noninvasive testing symposium that was attended by more than 50 physicians and technicians and received excellent evaluations. He gave several presentations this year on the physician shortage in the United States, including a presentation at the annual meeting of the American Surgical Association.

Dr. Patrick Vaccaro was recently appointed chair of the American College of Surgeons Ohio District #3 Committee on Applicants, and he was voted chief of staff-elect of The Ohio State University Medical Center, effective July 1, 2009. In October 2008, the Accreditation Council for Graduate Medical Education approved the vascular fellowship program for three more years.

Dr. Richard Fries completed the two-year fellowship in vascular surgery this year and joined a private practice group in Cincinnati, Ohio.

On June 1, 2009, Margaret “Peg” Kuhn, one of our most senior nurses and PCRM s, retired. Peg’s shoes will be extremely difficult to fill. She has been devoted to her patients and to the physicians with whom she worked, and she always maintained a positive, cheery attitude. She will be greatly missed.
Faculty

Patrick S. Vaccaro, M.D.
Professor of Clinical Surgery; Chief, Division of Vascular Diseases and Surgery; Program Director, Vascular Diseases and Surgery
B.S.: Yale University, New Haven, Conn., 1971
M.D.: University of Cincinnati, Cincinnati, Ohio, 1975
Specialty Training: General surgery residency, The Ohio State University, Columbus, Ohio; clinical fellowship in cardiothoracic surgery, Baylor College of Medicine, Houston, Texas
Appointment: 2004
Specialty Interests: General vascular surgery, endovascular therapy
Research Interests: Endothelial cell biology, spinal cord ischemia, clinical trials

B. Mohan Das, M.D.
Assistant Professor of Clinical Surgery
B.A.: Madras Christian College, Madras, India, 1967
M.D.: 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, Ohio
Appointment: 2004
Specialty Interests: General vascular surgery, carotid disease, lower extremity and dialysis access surgery
Research Interests: Clinical trials

Michael R. Go, M.D.
Assistant Professor of Surgery
B.S.: Duke University, Durham, N.C., 1996
M.D.: University of Cincinnati, Cincinnati, Ohio, 2000
M.S.: The Ohio State University, Columbus, Ohio, 2005
Specialty Training: General surgery internship and residency, The Ohio State University, Columbus, Ohio, 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
Bhagwan Satiani, M.D., M.B.A.
Professor of Clinical Surgery; Director of Non-Invasive Vascular Services
Undergraduate Degree: Shah Abdul Latif College, Mirpurkhas, Pakistan, 1964
M.D.: Dow Medical College, University of Karachi, Karachi, Pakistan, 1971
M.B.A.: Franklin University, Columbus, Ohio, 2002
Specialty Training: General surgery residency and trauma fellowship, Emory University, Atlanta, Ga.; vascular surgery fellowship, The Ohio State University Medical Center, Columbus, Ohio
Appointment: 2004
Specialty Interests: Noninvasive vascular diagnosis, business and legal aspects of medicine
Research Interests: Business education for physicians

William L. Smead, M.D.
The Luther M. Keith Professor of Surgery
B.A.: Amherst College, Amherst, Mass., 1968
M.D.: Vanderbilt University, Nashville, Tenn., 1972
Specialty Training: Massachusetts General Hospital, Boston, Mass.; 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, M.D.
Assistant Professor of Clinical Surgery; Director of Endovascular Services
B.S.: The Ohio State University, Columbus, Ohio, 1985
M.D.: The Ohio State University, Columbus, Ohio, 1989
Specialty Training: General surgery residency and vascular surgery fellowship, Cleveland Clinic, Cleveland, Ohio
Appointment: 2004
Specialty Interests: Endovascular surgery, interventional procedures, carotid stents
Research Interests: Endovascular aortic aneurysm repair, carotid stenting
Blair D. Vermilion, M.D.
Associate Professor of Clinical Surgery
B.S.: Miami University, Oxford, Ohio, 1968
M.D.: The Ohio State University, Columbus, Ohio, 1972
Specialty Training: General surgery residency, Indiana University, Indianapolis, Ind.; vascular surgery fellowship, St. Anthony Hospital, Columbus, Ohio
Appointment: 2004
Specialty Interests: General vascular surgery, venous disease
Research Interests: Clinical trials

Resident Staff

Siddharth Bhende, M.D.
PGY-6
B.S.: University of California at Riverside, Riverside, Calif., 1999
M.D.: Ross University, Dominica, West Indies, 2003

Richard B. Fries, M.D.
PGY-7
B.S.: University of Cincinnati, Cincinnati, Ohio, 1997
M.D.: University of Cincinnati, Cincinnati, Ohio, 2001

Mission

The mission of the Division of Vascular Diseases and Surgery is consistent with that of The Ohio State University Medical Center. Our mission includes the delivery of the highest quality of care to patients throughout Central Ohio suffering from peripheral vascular disease, the contribution to innovations in medicine through 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 our focus is a commitment to leadership in personalized health-care and becoming a high-performance organization and workplace of choice.
Active Research Grants


Accomplishments in Research

- Recruitment of Cameron Rink, Ph.D.

- Approval by the Institutional Review Board of the Abbott Vascular HERCULES (Herculink Elite Cobalt Chromium Renal Stent Trial to Demonstrate Efficacy and Safety), a trial of the RX Herculink Renal Stent System.
• Approval by the Institutional Review Board of the Boston Scientific ORION, a trial of the EPIC Nitinol Stent System in the treatment of atherosclerotic lesions in iliac arteries.

• Continuation of required follow-up for patients enrolled in the Cleveland Clinic Foundation/Medtronic PIVOTAL Study, the Cook Zenith Study, and the Boston Scientific SONOMA Study. These studies are closed to new enrollment but are active in the follow-up phase.

• Publication of 10 scholarly articles by faculty in the division.

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, London, Marysville, and Upper Sandusky.

Accomplishments in Clinical Care

• Offering of outpatient clinic varicose vein treatment instead of hospital-based treatment.

• Listing of Dr. William L. Smead by Best Doctors, Inc.

• Receipt by Dr. Blair Vermilion of the Richard M. Ross Heart Hospital Surgeon of the Month Award, in August 2008, for citizenship, punctuality, exemplary professionalism, staff teaching, and dedication to providing excellent, personalized patient care.

• Receipt of Boston Scientific simulation training by residents, fellows, and attending physicians, who received a day of hands-on training in endovascular care on August 7, 2008.
• Continuation of a high patient satisfaction score. As of April 2009, the overall assessment total was 91.2 percent.

• Use of the Guidant stent system in the treatment of blockages in the carotid artery.

• Use of the Rheos Baroreflex Hypertension Therapy System for treatment to control hypertension, or high blood pressure.

• Use of the Hercules Elite Stent System in the treatment of blockages in the renal artery.

Clinical Statistics

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>OR Procedures</td>
<td>1,895</td>
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<tr>
<td>Outpatient Visits</td>
<td>5,904</td>
</tr>
<tr>
<td>Admissions</td>
<td>901</td>
</tr>
<tr>
<td>Patient Days</td>
<td>3,747</td>
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<tr>
<td>Average Length of Stay (Days)</td>
<td>4.19</td>
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</tbody>
</table>

Educational Programs

• Two-year fellowship in vascular diseases and surgery, accredited in 2006 by the Accreditation Council for Graduate Medical Education.

• Seminar in Practice Management. Dr. Bhagwan Satiani presents this monthly seminar to the students and residents in the Department of Surgery.

• Comprehensive rotation in vascular diseases and surgery for junior and senior general surgery residents.

• Subinternship in vascular diseases and surgery.

Accomplishments in Education

• The division's Grand Rounds was approved for Category 1 continuing medical education credit toward the American Medical Association Physicians Recognition Award.

• Dr. Mohan Das attended the Gore Endovascular and Surgical Technology Showcase, in Flagstaff, Ariz., October 8–12, 2008; and the Annual Meeting of the Society for Vascular Surgery, in Denver, Colo., June 11–14, 2009.


• Dr. Bhagwan Satiani attended the 129th Annual Meeting of the American Surgical Association, in Indian Wells, Calif., April 22–26, 2009; the Annual Meeting of the Society for Vascular Surgery, in Denver, Colo., June 11–14, 2009; and the Columbus Medical Association’s meeting “Physician Contracts: with Hospitals and Others,” in Columbus, Ohio, June 16, 2009.


• Dr. Jean Starr attended the Grant Medical Center Vascular Symposium, in Columbus, Ohio, May 8, 2009; and Mentice VIST Training, in Chicago, Ill., May 15, 2009.


Community Outreach Programs

• Presentation of regular lectures on vascular disease at Central Ohio hospitals, the College of Medicine, departments of surgery, hospital board meetings, medical staff meetings, surgery grand rounds, medical society meetings, and the division’s vascular symposium.

Accomplishments in Community Outreach

• Dr. Bhagwan Satiani was co-director and planner of the Noninvasive Testing Symposium, at The Ohio State University Medical Center, Columbus, Ohio, November 1, 2008; was elected to the board of Asha Ray of Hope, a not-for-profit organization that assists victims of domestic violence in the South Asian community in Columbus; and served as reviewer for the Journal of Vascular Surgery, February 2009 – February 2010.

• Dr. Jean Starr volunteered to be shadowed in the clinic and operating room by Med I–II students in the Department of Surgery’s Surgery Interest Group; and served as a reviewer for the Cardiovascular Mortality Reduction Committee for 2009–2010.

• Dr. Patrick Vaccaro was appointed chair of the American College of Surgeons Ohio District #3 Committee on Applicants; conducted fellowship interviews for the American College of Surgeons Ohio District #3 Committee on Applicants, April 25, 2009; was voted chief of staff-elect at The Ohio State University Medical Center, effective July 1, 2009; and was named a trustee of the Columbus Medical Association.

Publications


**National Presentations**


Miscellaneous Presentations

Das BM. Carotid artery diseases. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, January 16, 2009.

Das BM. Carotid endarterectomy. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, December 10, 2008.

Das BM. Correct instruments. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Central Supply Department, Columbus, Ohio, June 18, 2009.

Das BM. Diabetic foot problems. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, May 15, 2009.

Das BM. Lower extremity diseases. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, May 13, 2009.

Das BM. Medical therapeutics invitation. The Ohio State University Medical Center, Senior Course in Therapeutics, Columbus, Ohio, March 11, 2009.

Das BM. Principles of amputation surgery. The Ohio State University Medical Center, Department of Physical Medicine and Rehabilitation, Resident Seminar, Columbus, Ohio, April 29, 2009.

Das BM. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, August 4, 2008.

Das BM. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, August 6, 2008.
Das BM. Vascular and thoracic surgery animal lab. The Ohio State University Medical Center, Columbus, Ohio, March 5, 2009.

Fries RB. Calf vein thrombosis: natural history and role of ultrasound. The Ohio State University Medical Center, Noninvasive Testing Symposium, Columbus, Ohio, November 1, 2008.

Go MR. Current management of DVT. The Ohio State University Medical Center, Surgery Grand Rounds, Columbus, Ohio, November 6, 2008.

Go MR. Hemostasis, surgical bleeding, and transfusion. The Ohio State University Medical Center, Basic Sciences Lecture, Columbus, Ohio, September 18, 2008.

Go MR. Lower extremity ischemia. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, November 19, 2008.

Go MR (Preceptor). Med III introduction to clinical medicine. The Ohio State University Medical Center, Columbus, Ohio, June 9, 2009.

Go MR. Paracentesis. The Ohio State University Medical Center, Clinical Skills Education and Assessment Center, Clinical Skills Immersion Experience Lecture, Columbus, Ohio, December 23, 2008.

Go MR. Paracentesis. The Ohio State University Medical Center, Clinical Skills Education and Assessment Center, Clinical Skills Immersion Experience Lecture, Columbus, Ohio, February 24, 2009.

Go MR. Physiology and pathophysiology of blood vessels. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, January 2, 2009.

Go MR. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, September 29, 2008.

Go MR. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, October 1, 2008.

Go MR. Vascular system. The Ohio State University Medical Center, Professor Conference, Columbus, Ohio, February 26, 2009.

Satiani BS. The estimated cost of training the future surgical work force. The Ohio State University Medical Center, Department of Surgery Faculty, Columbus, Ohio, April 17, 2009.

Satiani BS. The impending shortage and estimated cost of training the future neurosurgical work force. The Ohio State University Medical Center, Department of Neurosurgery, Grand Rounds, Columbus, Ohio, May 21, 2009.
Satiani BS. Personal savings/investing and the importance of creating a financial plan. The Ohio State University Medical Center, Student Financial Services, Columbus, Ohio, February 16, 2009.

Satiani BS. Portable ultrasound: indications, appropriateness, and economic implications. The Ohio State University Medical Center, Noninvasive Testing Symposium, Columbus, Ohio, November 1, 2008.

Satiani BS. Venous disease (PVD). The Ohio State University Medical Center, Professor Conference, Columbus, Ohio, February 12, 2009.

Satiani BS. What is the most important financial advice that you would offer to students? The Ohio State University Medical Center, Student Financial Services, Columbus, Ohio, October 30, 2008.

Satiani BS, Shobo A. Vascular ultrasound. The Ohio State University Medical Center, Clinical Skills Educational and Assessment Center, Ultrasound Honors Course for Fourth-year Honors Medical Students, Columbus, Ohio, September 3, 2008.

Smead WL. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, June 1, 2009.

Smead WL. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, June 3, 2009.

Smead WL. Thoracic outlet syndrome. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, March 20, 2009.

Smead WL. Thoracic outlet syndrome. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, June 10, 2009.

Smead WL. Visceral ischemia. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, December 19, 2008.

Starr JE. Acute arterial occlusion. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, April 17, 2009.

Starr JE. Angiogram. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, October 15, 2008.

Starr JE. Carotid stents: update on results and ultrasound criteria. The Ohio State University Medical Center, Noninvasive Testing Symposium, Columbus, Ohio, November 1, 2008.

Starr JE. Clinical update on vascular interventions and Rheos. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Board Meeting, Columbus, Ohio, August 18, 2008.
Starr JE. Commercial for the Richard M. Ross Heart Hospital. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Columbus, Ohio, July 20, 2008.

Starr JE. Finding work-life balance in surgery. American College of Surgeons, Ohio Chapter, Cleveland, Ohio, May 9, 2009.

Starr JE. Hemostasis, surgical bleeding, and transfusion. The Ohio State University Medical Center, Basic Sciences Lecture, Columbus, Ohio, September 4, 2008.


Starr JE. New modalities for thoracic aortic aneurysm repair. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, April 15, 2009.

Starr JE. Renal artery disease. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, November 21, 2008.

Starr JE. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, February 2, 2009.

Starr JE. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, February 4, 2009.


Vaccaro PS. Claudication. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, October 3, 2008.

Vaccaro PS. Innominate, subclavian, and vertebral diseases. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, February 6, 2009.

Vaccaro PS. Management of vascular trauma. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, June 19, 2009.

Vaccaro PS. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, March 30, 2009.

Vaccaro PS. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, April 1, 2009.

Vermilion BD. Abdominal aortic aneurysm. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, February 18, 2009.
Vermilion BD. Atherosclerosis: etiology and pathogenesis. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, June 5, 2009.

Vermilion BD. Hemodynamics. The Ohio State University Medical Center, Division of Vascular Diseases and Surgery, Grand Rounds, Columbus, Ohio, February 20, 2009.

Vermilion BD. Postoperative vascular patients. The Ohio State University Medical Center, the Richard M. Ross Heart Hospital, Fifth-Floor Nurse In-service, Columbus, Ohio, September 17, 2008.

Vermilion BD. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, December 1, 2008.

Vermilion BD. Stroke, vascular surgery, and the ischemic and swollen leg. The Ohio State University Medical Center, Student Group Session, Columbus, Ohio, December 3, 2008.

Vermilion BD. Vascular system: venous diseases. The Ohio State University Medical Center, Professor Conference, Columbus, Ohio, March 12, 2009.
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