



SCHOOL OF MEDICINE  
CASE WESTERN RESERVE  
UNIVERSITY



# Department of Surgery

Case Western Reserve University School of Medicine

2011 ANNUAL REPORT

# Department of Surgery

Case Western Reserve University School of Medicine

## 2011 ANNUAL REPORT

### CHAIR'S OFFICE

**Jeffrey L. Ponsky, MD**

Oliver H. Payne Professor and Chairman

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Case Medical Center

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**MetroHealth**

**MetroHealth Medical Center**  
**Department of Surgery**  
2500 MetroHealth Drive  
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Jeffrey L. Ponsky, MD

The Department of Surgery at Case Western Reserve University continues to provide high quality patient care, integrated with clinical and basic science research and intensive teaching at all levels. We enjoy distinguished clinical leaders in all the surgical specialties, who provide our patients with the latest advances in surgical care. Our residents remain an integral part of the Department, and add to the rich culture of academic inquiry. Our teaching hospitals include University Hospitals Case Medical Center, MetroHealth Medical Center, and the Louis B. Stokes Cleveland VA Medical Center. Each has a dedicated and unique faculty with special expertise that enriches patient care and the educational experience. The Department also has distinguished itself, both nationally and internationally, for its creative and innovative hands-on and web-based postgraduate educational courses.

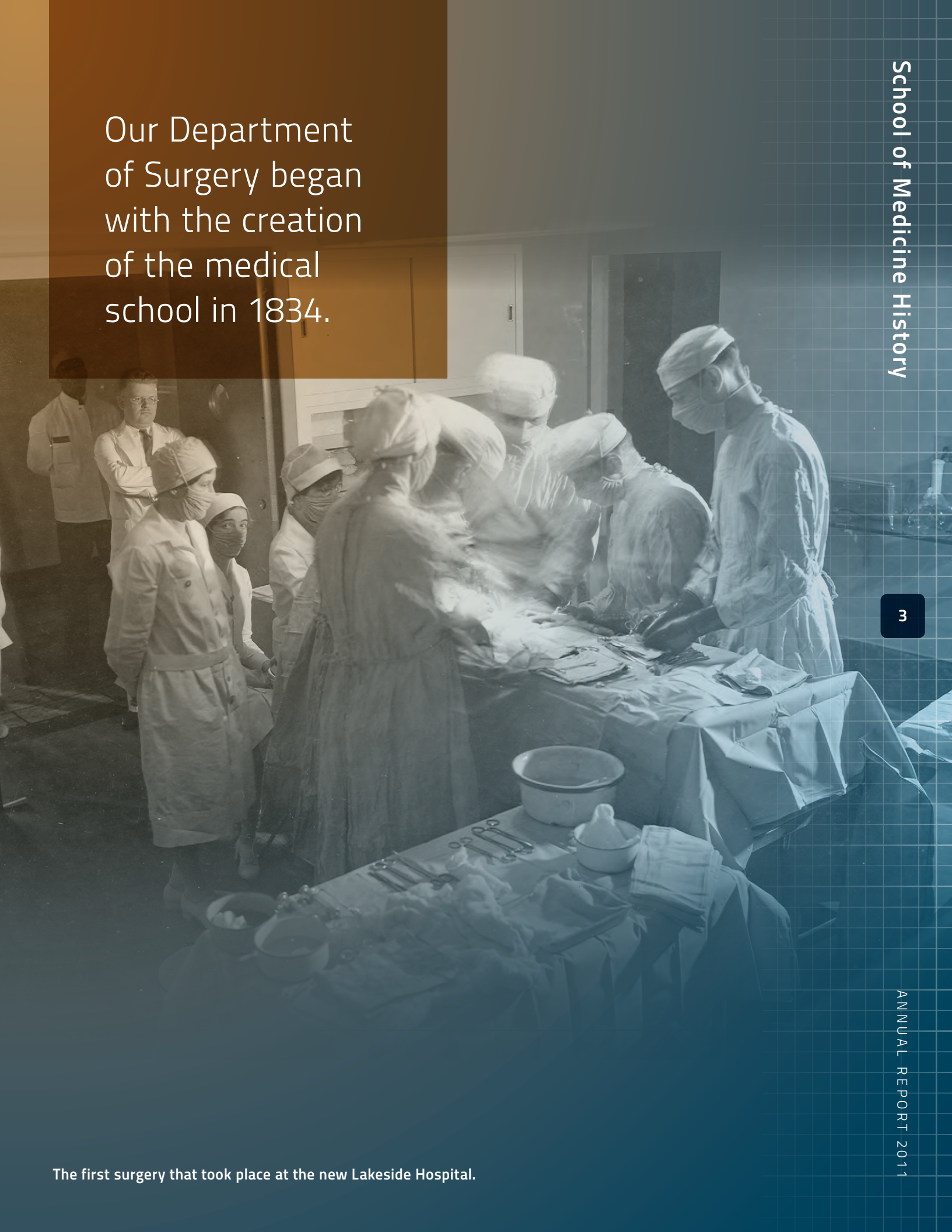
The success of our residents has been extremely gratifying, as they ascend themselves to esteemed academic positions.

A handwritten signature in black ink that reads "Jeffrey Ponsky". The signature is written in a cursive, flowing style.

Jeffrey L. Ponsky, MD  
Oliver H. Payne Professor and Chairman  
Department of Surgery  
Case Western Reserve University  
Surgeon-in-Chief  
University Hospitals Case Medical Center



Our Department of Surgery began with the creation of the medical school in 1834.



The first surgery that took place at the new Lakeside Hospital.



**Dr. Horace A. Ackley**

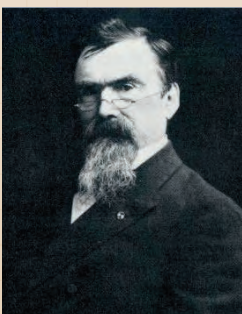
Dr. Ackley, the first Chairman and the Professor of General and Special Anatomy and Physiology, was a driving force among the original founders of the Willoughby Medical College within the Willoughby University of Lake Erie. Nine

years later he and the other three founders moved to Cleveland to start the Cleveland Medical College which ultimately became the Medical Department of the Western Reserve College. Shortly thereafter, the original Medical Department in Willoughby was closed and moved to Columbus, Ohio where it eventually became the Starling Medical College at the Ohio State University.

In the mid 1800's, medical students first completed a 3-year preceptorship after which they were able to practice medicine in Ohio. However, to obtain a MD degree a student had to attend two sets of 16 week lectures at a medical college and then pass an examination by a committee composed of medical school faculty and County Medical Society physicians.

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In 1845, the new medical school raised its first building in downtown Cleveland near the Marine Hospital that was under construction by the Federal Government. Dr. Ackley was appointed Staff Surgeon to the Marine Hospital in 1853. Dr. Ackley was a skilled anatomist, a formidable surgeon and a community activist. He was the first to use ether just 3 months after Morton's demonstration at the Massachusetts General Hospital (MGH).



**Dr. Gustav Carl Erich Weber**

Dr. Weber succeeded Dr. Ackley in 1856. Dr. Weber realized the importance of using inpatients for student teaching and he utilized the Marine Hospital for this purpose. He also was

the Surgeon General for Ohio during the Civil War. Unfortunately, he was both young and overly forceful in his public opinions with the result that a new chairman, Dr. Proctor Thayer was appointed in 1863.



**Dr. Proctor Thayer**

Dr. Thayer originally was the Professor of Anatomy and Physiology. He also taught jurisprudence where his fiery disposition in the court room earned him the nickname of "the little giant" because of

his short stature. His skill as a lecturer and later as an administrator led to a long period of growth for the Department. The former Chairman, Dr. Weber, was still quite active and had started an alternative medical school at the new St. Vincent's Charity Hospital. With time, Dr. Thayer brought the two schools together. Dr. Weber along with Dr. Thayer then persuaded a Cleveland merchant, Mr. John L. Woods, to donate funds for the construction of a new medical school building at E. 9th and St. Clair in 1887. In this environs, the medical school curriculum was lengthened and a new younger faculty introduced more scientific training such as the use of Lister's carbolic spray and topical antiseptics (soap) into the operating room along with new instruments such as the thermometer. This facility functioned until 1929 when the new University Circle campus was created.

During the late 1800's and early 1900's, major changes were also occurring among the hospitals and colleges in Cleveland. These new institutions resulted in the medical school and hospital systems of today. For example, it was after the Civil War in 1866 when the Cleveland City Hospital was established and then incorporated into the Marine Hospital in 1876. A new (Cleveland) City Infirmary was built on Scranton Road in 1889. The consequence was that the Marine Hospital became known as Lakeside Hospital (which eventually moved to University Circle), while the Scranton Road facility became the City Hospital which today is known as MetroHealth Medical Center—part of Case Department of Surgery since the 1970's. Our current academic campus—The Adelbert and Mather Colleges (for men and women respectively), The Western Reserve University, the Case Institute of Technology, and the Western Reserve University School of Medicine—eventually all united in University Circle due to the generosity of several Cleveland industrialists.



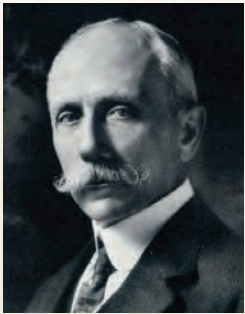


**Dr. Charles Barnsdall Parker**

In 1890, Dr. Parker became the fourth Chairman of the Department. The medical school curriculum was extended to 3 years of formal instruction which included the new laboratory subjects

of chemistry, physiology, and histology—all reflecting the advancing general scientific disciplines of the day. However, educational financing from student fees and faculty support from private practice now proved insufficient. Although the first endowments were obtained, the fiscal tensions resulted in several resignations in 1893—including that of Dr. Parker.

graduate of Oberlin College and Harvard Medical School. He trained at the Massachusetts General Hospital and took the requisite tours of European and Philadelphia hospitals. He then returned to Cleveland where he married Elizabeth Severance whose father donated the Severance Hall, home of the Cleveland Orchestra. Dr. Allen actively revised the medical school curriculum in 1908, prior to the Flexner report of 1909, which changed medical education in the United States. The new curriculum involved seven departments and 4,100 hours of instruction along with expanded entrance requirements. Dr. Allen had a distinguished national career becoming President of the American Surgical Association. He was a leader in surgical education—a tradition that continues in our department today.



**Dr. Dudley Peter Allen**

The “modern” era of surgical and medical education began with the tenure of Dr. Allen in 1893. Lakeside Hospital underwent a major expansion and the Cleveland Medical Library Association was founded in 1894. This

association currently exists as the Allen Medical Library, which is the clinical library for Case School of Medicine. It was built with Dr. Allen’s endowment of the marble building next to University Hospitals. Dr. Allen was a



**Dr. George Washington Crile**

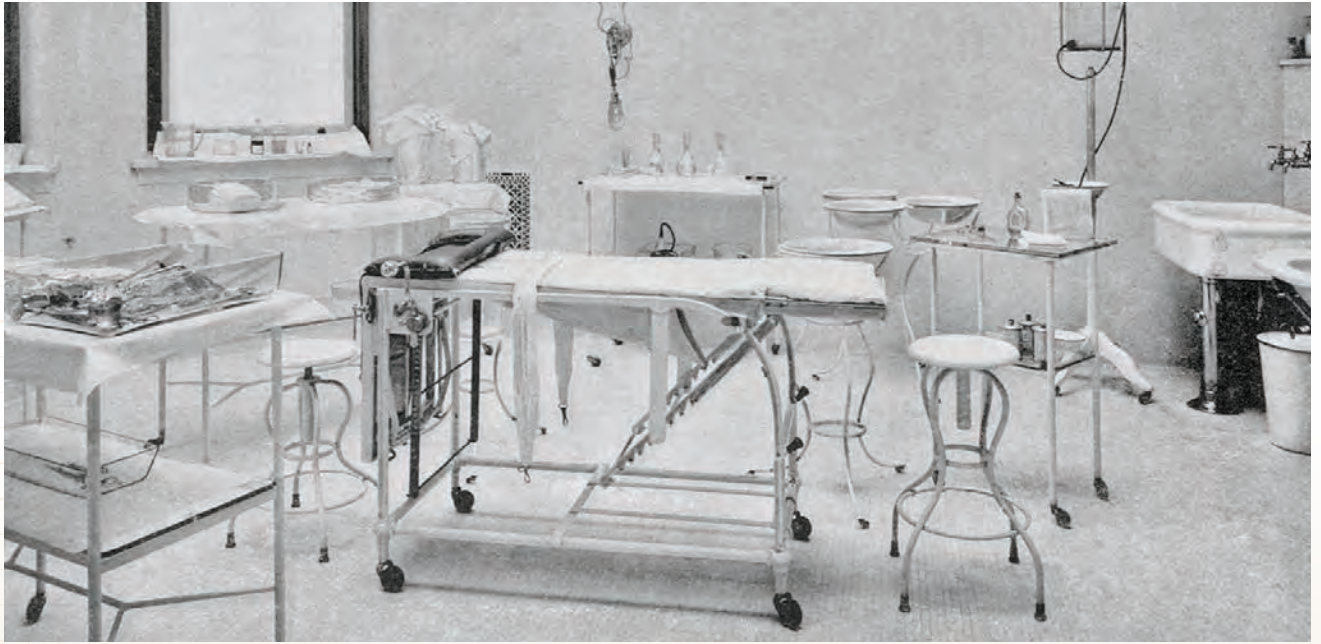
Dr. Crile was perhaps our most colorful chairman. His tenure was from 1910 until 1924. Educated entirely in Ohio, he began practice as a trauma surgeon in Cleveland. His interest in shock from blood

loss culminated in the first local transfusion of whole blood in 1906 and his interest in trauma spurred the use of the new Roentgen X-ray machines. In 1915, he went to France as part of the American Ambulance Service wherein academic hospitals sent a complete



World War I, American Ambulance Hospital, Paris; in 1915, under Dr. George Crile, Lakeside Hospital sent a team to operate on wounded soldiers.





Private operating room in Old Lakeside Hospital downtown.

hospital staff as a unit—a pattern that was expanded into Base Hospitals when the United States entered into WWI and WWII. Dr. Crile was an enthusiastic and able leader who created great press. In the 1920's, Dr. Crile worked with Dr. Edward Cushing (brother of the famed Harvey Cushing) to create the new Lakeside Hospital in University Circle along with the Pathology Institute, Babies and Children Hospital and the MacDonald House Hospital for obstetrics and gynecology. When he reached the retirement age of 65, a policy he set in motion for his predecessor Dr. Allen, Dr. Crile did not retire fully but rather rejoined his former private practice partners from the old Lakeside so as to further their new adventure—the Cleveland Clinic.

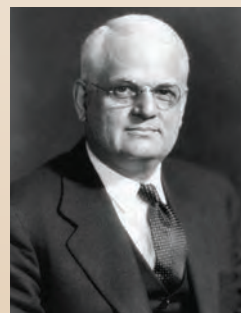


**Dr. Elliott C. Cutler**

Dr. Cutler was the seventh Chairman, from 1924 until 1932. Dr. Cutler excelled at Harvard College and Medical School after which he toured European medical centers. His surgical training was completed at the Peter Bent

Brigham Hospital (PBBH) and the Massachusetts General Hospitals (MGH) in Boston. He served with the Harvard unit that relieved Dr. Crile's American Ambulance Service in Paris. Dr. Cutler began his academic career under the famed neurosurgeon at the PBBH, Harvey Cushing, who came from a family

of physicians in Cleveland. Shortly thereafter, Dr. Cutler was appointed as chairman of our department. Dr. Cutler created a full-time teaching faculty and brought with him a commitment to surgical research for both the faculty and residents. He invented a transventricular valvulotome for mitral stenosis. It was not successful but this investigative work with Dr. Claude Beck of our department started Dr. Beck's lifelong series of achievements in cardiovascular surgery. Dr. Cutler returned to the PBBH as Harvey Cushing's successor in 1934, and his list of surgical trainees from both institutions formed the core of surgical professors and leaders for the next 30 years.

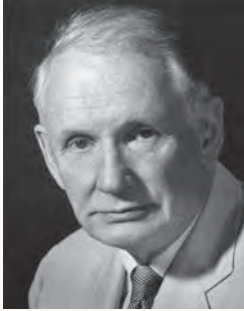


**Dr. Carl Henri Lenhart**

Dr. Lenhart became chairman as the Great Depression of the 1930's took its toll on the country and this department. Dr. Lenhart received his college, medical school and residency training in Cleveland. He became the

first recipient of the endowed Oliver H. Payne Chair of Surgery, however the depression era finances were such that he was the only one with a salary. All the full-time faculty were forced to revert to private practice. Although simple fiscal survival was the order of the day, Dr. Lenhart was able to work with Dr. David Marine who demonstrated the relationship between

iodine deficiency and goiter as Cleveland was part of the "Goiter Belt." World War II further stressed the department as most members were called overseas with the Lakeside Unit (Base Hospital #4) going to Australia and then New Guinea.



### Dr. William D. Holden

Dr. Holden assumed the chairmanship in 1950, a post he held until 1977. A graduate of Cornell College and Medical School, he trained in surgery at University Hospitals in Cleveland. Remarkably, he advanced one academic rank

per year starting as an Instructor in 1946. He became a Senior Instructor in 1947, an Assistant Professor in 1948, an Associate Professor in 1949, and the Professor and Chairman in 1950. He was one of six departmental chairs appointed shortly after WWII by the new Dean, Dr. Joseph Wearn. All had long tenures and illustrious academic careers beginning with the new revolutionary Western Reserve School of Medicine curriculum in 1952. This brought together the basic science and clinical faculties into subject committees that vertically integrated the entire medical school content. Dr. Holden expanded the geographic full-time faculty whose base salaries allowed them to spend less time on private practice and more on teaching and research. Early metabolic surgical research was supported with a metabolic clinical unit within Lakeside, labs in the new Wearn research building attached to University Hospitals, and a new large animal research unit with labs and OR's within the new adjacent medical school complex. The surgical specialty services flourished and many became their own departments—Neurosurgery, Orthopedics, ENT and Urology. The part-time surgical faculty was integrated into the division of general surgery with the opening of the multidiscipline medical building at Green Road—the University Suburban Health Center (USHC). This resulted in the formation of an academic practice plan called University Surgeons Inc. which was absorbed by the hospital in 2004. Educationally, Dr. Holden combined the surgical residencies of University Hospitals, the Cleveland VA Hospital and Cleveland Metro General Hospital into the unified CASE general surgery residency program in 1970. He integrated some of the surgical specialties with general surgery so as to give joint credit for research

years and to allow the specialty chief residency to count as the chief year in general surgery. This shortened the residency training years for those on an academic pathway, a concept that is being considered again today. Finally, Dr. Holden and Ralph DePalma obtained funding from Severance Milliken to endow the Allen Scholar Program which allows the department to independently fund, at full salary, one or two research residents every year.



### Dr. Jerry Mark Shuck

Dr. Shuck was appointed as chairman in 1980. Dr. Shuck received his medical and surgical training principally in Cincinnati after first becoming a pharmacist and secondly after a brief professional baseball career. His academic

career began at the Surgical Research (Burn) Unit of the Brooke Army Medical Center and the University of Texas as San Antonio. Dr. Shuck next moved to the New Mexico Medical School in Albuquerque where he created a burn and trauma unit. Upon arrival at Case, Dr. Shuck brought a renewed commitment to excellence in teaching of residents and medical students along with further development of the academic faculty. The division of general surgery doubled in size and several areas of special expertise were developed—The Breast Center, Transplantation, Vascular, Bariatric and Minimally Invasive (Laparoscopic) Procedures. He, along with Dr. Ponsky, integrated the surgical residency program at Mt. Sinai Hospital until that institution closed in the 1990's. Dr. Shuck oversaw the expansion of the clinical scope of the department into ambulatory surgery at the Green Road USHC and at University Hospitals and into the clinical offices at USHC, the Bolwell ambulatory building, MacDonald Breast Center, Westlake, Highland Heights and Richmond Heights. All of this activity reflected the increasing reliance upon clinical practice income and an increasing role of the hospitals in determining departmental priorities. Subsequently, Dr. Shuck returned to his original passion—the education of residents—when he became Director and Associate Dean of Graduate Medical Education for the entire University Hospitals system in 2001.



**Dr. James A. Schulak**

Dr. Schulak served as Chairman from 2001 until 2004. He is a transplantation surgeon who had been recruited from The University of Iowa by Dr. Shuck in 1985. Dr. Schulak is a graduate of the University of Chicago School of Medicine

where he also completed both general surgery and transplant training. Abdominal organ transplantation and pancreatic surgery are the clinical areas of special interest for him. In this department, he dramatically increased the number of kidney transplantations, and established liver and pancreas transplant programs while establishing a national reputation in transplant immunology and reperfusion injury research. As chairman, he stabilized the practice patterns within the divisions and restructured medical student and resident education. During his tenure as chairman, he began the process which has led many of the Department faculty to join forces with University Hospitals Health System by becoming full-time employees.



**Dr. Jeffrey L. Ponsky**

Dr. Ponsky became, in 2005, the Oliver H. Payne Professor and Chairman, Department of Surgery at CWRU. Prior to this appointment, Dr. Ponsky was Professor of Surgery at the Cleveland Clinic Lerner College of Medicine and Director of

Graduate Medical Education at the Cleveland Clinic Foundation. Dr. Ponsky is a graduate of CWRU School of Medicine (1971) and completed his surgical internship and residency at CWRU Integrated Surgical Residency Program (1971 to 1976).

His academic career began at University Hospitals in 1976, where he co-developed the popularization of the PEG procedure conceived by he and one of our pediatric surgeons — Dr. Michael Gauderer. Dr. Ponsky then became the Chief of Surgery at Mt Sinai Hospital (also here within University Circle) for 18 years. The quality of his educational program was such that it was integrated into the Case surgical residency until Mt. Sinai, along with several Cleveland area hospitals, was closed in the 1990's.

In 1990, he received his MBA from CWRU Weatherhead School of Management. Dr. Ponsky has served as a Director of the American Board of Surgery (ABS) and is Chairman of the ABS. He has served as President of the following organizations: the American Society for Gastrointestinal Endoscopy (1996 to 1997), the Ohio Chapter of the American College of Surgeons (1994 to 1995), the Society of American Gastrointestinal Endoscopic Surgeons (1990 to 1992), Northeastern Ohio Society for Gastrointestinal Endoscopy (1982 to 1987), and Cleveland Surgical Society (1990 to 1991). Dr. Ponsky has received numerous awards including the prestigious Rudolf Schindler Award by the American Society for Gastrointestinal Endoscopy (2002) the highest recognition award for excellence in endoscopic research, teaching and service.

In 2005, he received the Pioneer in Endoscopy Award from the Society of American Gastrointestinal Endoscopic Surgeons. In 2009, he received SAGES the George Berci Lifetime Achievement Award. Dr. Ponsky has been listed in The Best Doctors in America® each year since its inception. He has published over 200 original articles and book chapters, authored or edited five textbooks and serves on the editorial board of eight journals. He is the originator of the percutaneous endoscopic gastrostomy which provided a minimally invasive substitute for operative placement of feeding tubes.





## RESIDENCY PROGRAM

### DIRECTORS

**General Surgery Residency**  
PROGRAM DIRECTOR  
Julian Kim, MD

ASSOCIATE DIRECTORS  
Walter Cha, MD  
Melanie Lynch, MD, PhD  
Sharon L. Stein, MD

**Oral and Maxillofacial Surgery**  
**Residency Program**  
DIRECTOR  
Faisal A. Quereshy, MD, DDS

**Surgery Clerkship Directors**  
PROGRAM DIRECTOR  
Marjie Persons, MD

ASSOCIATE DIRECTORS  
Christopher Brandt, MD  
Gilles Pinault, MD

## UNIVERSITY HOSPITALS CASE MEDICAL CENTER

### FACULTY LEADERSHIP

CHAIR  
Jeffrey L. Ponsky, MD

DIVISION CHIEFS  
**Cardiac Surgery**  
Adnan Cobanoglu, MD

**Colorectal Surgery**  
Conor Delaney, MD, MCh, PhD

**General and Gastrointestinal Surgery**  
Michael Rosen, MD

**Oral and Maxillofacial Surgery**  
Dale Baur, DDS

**Pediatric Surgery**  
Edward Barksdale, MD

**Surgical Oncology**  
Julian Kim, MD

**Transplant and Hepatobiliary Surgery**  
James Schulak, MD

**Thoracic and Esophageal Surgery**  
Philip Linden, MD

**Vascular Surgery and Endovascular Therapy**  
Vikram Kashyap, MD

## METROHEALTH MEDICAL CENTER

### FACULTY LEADERSHIP

DEPARTMENT CHAIR  
Christopher P. Brandt, MD

DIVISION DIRECTORS  
**Cardiothoracic Surgery**  
Inderjit S. Gill, MD

**General Surgery**  
Christopher McHenry, MD

**Oral and Maxillofacial Surgery**  
Jon P. Bradrick, DDS

**Plastic and Reconstructive Surgery**  
Roderick B. Jordan, MD

**Surgical Oncology**  
Christopher McHenry, MD (Acting  
Director)

**Trauma, Critical Care and Burns**  
Jeffrey A. Claridge, MD

**Vascular Surgery**  
J. Jeffrey Alexander, MD

## LOUIS B. STOKES CLEVELAND VA MEDICAL CENTER

### FACULTY LEADERSHIP

CHIEF, SURGICAL SERVICE  
Frederick Cason, MD

SECTION CHIEFS  
**Cardiothoracic Surgery**  
Brian Cmolik, MD

**General Surgery**  
Melanie Lynch, MD, PhD

**Plastic Surgery**  
Devra Becker, MD

**Surgical Critical Care**  
Edward Noguera, MD

**Vascular Surgery**  
Jessie Jean-Claude, MD



Julian Kim, MD

Thank you for your interest in the training programs in Surgery at Case Western Reserve University School of Medicine. Our mission is to provide the finest training available to individuals who are motivated, compassionate and willing to contribute to the excellence of the program for the benefit of all participants.

Please visit the web pages ([www.casesurgery.com](http://www.casesurgery.com)) associated with the Case Surgical Residency Program to learn more about specific surgical rotations, faculty biosketches, current residents, recent graduates and the educational conferences. As a part of our ongoing effort to improve the educational experience, conferences and yearly rotations may be modified based upon resident feedback at our yearly retreat. Surgical training is divided among many outstanding hospitals to provide a broad range of experience at the following locations:

- University Hospitals Case Medical Center is the primary hospital affiliate with Case Western Reserve University School of Medicine. Case Surgery is a recognized leader in minimally invasive surgery, including translational research in NOTES.
- MetroHealth Medical Center is the regional Level I Trauma and Burn Center and is nationally recognized for contributions in the area of emergency surgery, critical care and endocrine surgery.
- Louis B. Stokes Cleveland VA Medical Center boasts state-of-the-art electronic health records.
- Rainbow Babies and Children's Hospital is traditionally recognized as the top children's hospital in the Midwest and top five in the country.
- University Hospitals Seidman Cancer Center is our newly opened NCI-designated cancer center and is the only free-standing cancer hospital in Northern Ohio.

Graduates from our program continually achieve top fellowship positions and move on to make significant contributions in both clinical and academic surgery. The core curriculum follows the SCORE outline, and educational conferences are focused on case-based questions which help the residents achieve proficiency in decision making.

Our mission is "to heal, to teach and to discover." Our surgical training program is dynamic and steeped in tradition but has an eye towards the future. We look forward to continuing our tradition of excellence in teaching and sharing our vision of surgical education in the new millennium.

A handwritten signature in black ink, appearing to be 'JK' or similar initials, written in a cursive style.

Julian Kim, MD, MS  
Charles Hubay Professor of Surgery  
Chief, Division of Surgical Oncology  
Program Director, General Surgery

The postgraduate training program in general surgery consists of five years of clinical surgical education.





## POST-GRADUATE YEAR 1

- Pre- and post-operative care
- Minor surgical procedures
- Assists at operations
- "See More, Do More" philosophy
- Increasing opportunities with increased exposure
- Medical student teaching
- Participation in teaching conferences
- Three weeks of vacation

### Sample PGY 1 Rotation Schedule

- Three months of general surgery
- Two months of vascular surgery
- One month of trauma surgery
- One month of transplant surgery
- One month of burn unit
- One month of surgical ICU
- One month of CT surgery
- Two months of emergency surgery

## POST-GRADUATE YEAR 2

- Greater responsibility for patient evaluation compared to PGY 1
- Greater opportunity to develop skills in the operating room compared to PGY 1
- This is a year of growth, and progressive responsibility
- Builds upon past experiences
- Emphasizes the workings of the surgical team
- Four weeks of vacation

### Sample PGY 2 Rotation Schedule

10 blocks – each 4 or 6 weeks

- Three blocks of general surgery
- Two blocks of trauma surgery
- One block of colorectal surgery
- One block of surgical ICU
- One block of pediatric surgery
- One block of emergency surgery
- One block of thoracic surgery



## POST-GRADUATE YEAR 3

- Coordinate teaching of junior residents and medical students
- Refinement of surgical skills
- Serve as "chief" resident at busy trauma SICU, renal transplant, and acute care surgery service
- Focused endoscopy experience rotating at all three institutions
- Four weeks of vacation

### Sample PGY 3 Rotation Schedule

- Six months of general surgery / surgical oncology
- Two months of endoscopy
- Two months of surgical ICU night float chief
- Two month of transplant surgery

## POST-GRADUATE YEAR 4

You are the chief resident on:

- Pediatric surgery
- Trauma surgery
- Emergency surgery
- General surgery
- Vascular surgery
- Colorectal surgery
- Four weeks of vacation

### Sample PGY 4 Rotation Schedule

- Two months of general surgery
- Two months of emergency surgery
- Two months of colorectal surgery
- Two months of vascular surgery
- Two months of pediatric surgery
- Two months of trauma surgery

## POST-GRADUATE YEAR 5

- Chief on all services
- Significant responsibilities for teaching in the clinical setting and in conferences
- Opportunity to serve as administrative chief resident
- Four weeks of vacation

### Sample PGY 5 Rotation Schedule

- Eight months of general surgery
- Two months of vascular surgery
- Two months of hepatobiliary



## RESEARCH YEARS

### Research at University Hospitals

#### Dudley P. Allen Scholarship

- Two years of fully funded research
- Includes animal research, basic science research and clinical research opportunities
- Extensive interaction with Case Western Reserve University researchers
- Biomedical engineering
- Case imaging center
- Department of Pathology and Microbiology
- Current research areas include:
  - Abdominal wall reconstruction
  - Endoscopy and NOTES
  - Minimally invasive surgery
  - Surgical oncology
  - Vascular surgery

### Research at MetroHealth Medical Center

- Trauma and critical care based outcomes research
- Surgical infections

### Off site research

- Our residents have found funded opportunities at places such as:
  - The Cleveland Clinic (Colorectal basic science and vascular surgery)
  - Loyola University – Burn and Shock Trauma Institute

### Current Research Residents

- Aman Banerjee, MD, Trauma research
- Katherine Kelly, MD, Surgical Infections
- David Krpata, MD, Abdominal Wall Reconstruction
- Anthony Visioni, MD, Burn and Basic Science Research
- Matthew Allemang, MD, Vascular surgery

## CLINICAL TRAINING SITES

Faculty of the Case Western Reserve University School of Medicine are responsible for all training at the clinical facilities of University Hospitals Case Medical Center, MetroHealth Medical Center, and the Louis B. Stokes Cleveland VA Medical Center.

### University Hospitals Case Medical Center

#### Description

- Located just east of downtown
- Tertiary-care center with multiple satellite sites
- Six connected specialty hospitals
- Lerner Tower and Lakeside Hospital
- Mather Pavilion for Outpatient Surgery
- Rainbow Babies and Children's Hospital
- University McDonald Women's Hospital
- University Psychiatric Center
- University Hospitals Seidman Cancer Center
- 7,900 general surgical procedures are performed annually

### Departmental Structure

- Division of Cardiac Surgery
- Division of Colorectal Surgery
- Division of General and Gastrointestinal Surgery:
  - Minimally Invasive
  - Bariatric
  - Endoscopy
- Division of Oral and Maxillofacial Surgery
- Division of Pediatric Surgery
- Division of Surgical Oncology
- Division of Thoracic and Esophageal Surgery
- Division of Transplant and Hepatobiliary Surgery
- Division of Vascular Surgery and Endovascular Therapy

### UHCMC is home to 91 residencies and fellowships including surgical subspecialties in:

- Neurosurgery
- Orthopaedic Surgery
- Otolaryngology
- Ophthalmology
- Urology

### MetroHealth Medical Center

#### Description

- Located just southwest of downtown
- Tertiary care center for acutely ill patients
- ACS verified Level I Trauma Center for adults and children
- ACS verified Regional Burn Center

### 2004 Statistics

- 760 acute inpatient beds
- 27,515 inpatient stays
- 678,807 outpatient visits
- 73,694 emergency department visits
- over 6,000 operations

### Departmental Structure

- General Surgery
- Minimally invasive
- Colorectal
- Endoscopy
- Endocrine
- Oncology
- Burns / Trauma / Critical Care
- Cardiothoracic Surgery
- Vascular Surgery
- Neurosurgery
- Plastic and Reconstructive Surgery
- Pediatric surgery

### Headquarters of Life Flight

- Four helicopters
- Active 24-hours a day, seven days a week
- Provides a steady stream of complex trauma patients

## Louis B. Stokes Cleveland VA Medical Center

### Description

- Major teaching hospital of the Case Western Reserve University School of Medicine
- Training site for residents in:
  - General surgery
  - Orthopaedic surgery
  - Otolaryngology
  - Urology
  - Cardiothoracic surgery
  - Ophthalmology
  - Plastic surgery
  - Neurosurgery
  - Internal medicine
  - Psychiatry
  - Neurology

### Statistics

- New inpatient care facilities in 2004
- 350 acute care beds
- 185 nursing home beds
- 137 domiciliary beds

### New ambulatory care facility in 2002

- 6,890 outpatient visits
- 910 admissions to the surgical services
- 3,088 operations performed

### Regional Referral Center

- Cardiac surgery center for:
  - Ohio
  - Northern Kentucky
  - West Virginia
- Major vascular cases
- Bariatric cases
- Spinal cord injury
- Services Northeast United States



## FACULTY

The Department is fully integrated in its educational programs at University Hospitals Case Medical Center, MetroHealth Medical Center, and the Louis B. Stokes Cleveland VA Medical Center. There are 46 full-time surgical faculty in our Department, plus additional PhDs, physician assistants and nurse practitioners.

### University Hospitals Case Medical Center

#### CHAIRMAN

**Jeffrey Ponsky, MD**, Minimally Invasive Surgery, Endoscopy

#### VICE CHAIRMEN

**Edward Barksdale, MD**, Pediatric Surgery

**Conor Delaney, MD, MCh, PhD**, Colorectal Surgery, Surgical Skills Training

#### PROFESSORS

**Edward Barksdale, MD**, Pediatric Surgery

**Adnan Cobanoglu, MD**, Cardiac Surgery

**Conor Delaney, MD, MCh, PhD**, Colorectal, Surgical Skills Training

**Jerry Goldstone, MD**, Vascular and Endovascular Surgery

**Vikram Kashyap, MD**, Vascular and Endovascular Surgery

**Julian Kim, MD**, Surgical Oncology

**Raymond Onders, MD**, Minimally Invasive Surgery, Anti-reflux Surgery, Diaphragm Pacing

**Jeffrey Ponsky, MD**, Minimally Invasive Surgery, Endoscopy

**James Schulak, MD**, Transplant/Hepatobiliary and Pancreas Surgery

**Jerry Shuck, MD**, Surgical Oncology, General and Endocrine Surgery

**Robert Zollinger, MD** (Emeritus), General and Gastrointestinal Surgery

#### ASSOCIATE PROFESSORS

**Mark Aeder, MD**, Transplant/Hepatobiliary and Pancreas Surgery

**Robert Boova, MD**, Cardiac Surgery

**Brad Champagne, MD**, Colorectal Surgery

**Jeffrey Hardacre, MD**, Surgical Oncology

**Leena Khaitan, MD**, Minimally Invasive and Bariatric Surgery

**Peter Kouretas, MD**, Pediatric Cardiothoracic Surgery

**Philip Linden, MD**, Thoracic and Esophageal Surgery

**Jeffrey Marks, MD**, General and Gastrointestinal Surgery, Endoscopy

**Yuri Novitsky, MD**, Minimally Invasive Surgery, Hernia Repair Surgery

**Marjie Persons, MD**, Surgical Oncology, General and Gastrointestinal Surgery, Breast Disease

**Todd Ponsky, MD**, Pediatric Surgery

**Harry Reynolds, Jr., MD**, Colorectal Surgery

**Michael Rosen, MD**, Minimally Invasive Surgery, General and Gastrointestinal Surgery

**Alan Saber, MD**, Bariatric and General Surgery

**Edmund Sanchez, MD**, Liver, Kidney, Pancreas Transplant Surgery

**Robert Shenk, MD**, Surgical Oncology, General and Gastrointestinal Surgery, Breast Disease

**Christopher Siegel, MD, PhD**, Transplant/Hepatobiliary and Pancreas Surgery

**Scott Wilhelm, MD**, Surgical Oncology, Endocrine Surgery, Minimally Invasive Surgery



**ASSISTANT PROFESSORS**

John Ammori, MD, Surgical Oncology  
 Henry Baele, MD, Vascular and Endovascular Surgery  
 Arie Blitz, MD, Cardiac Surgery  
 Scott Boulanger, MD, Pediatric Surgery  
 Teresa Carman, MD, Vascular Medicine  
 Anthony DeRoss, MD, Pediatric Trauma  
 Carlos Garcia, MD, Cardiac Surgery  
 Rosemary Leeming, MD, Surgical Oncology, Breast Surgery,  
 Breast Disease  
 Eric Marderstein, MD, Colorectal Surgery  
 Alan Markowitz, MD, Cardiac Surgery  
 Jason Robke, MD, Thoracic and Esophageal Surgery  
 Juan Sanabria, MD, Transplant/Hepatobiliary and Pancreas  
 Surgery  
 Carsten Schroeder, MD, Thoracic Surgery  
 Sharon L. Stein, MD, Colorectal Surgery  
 John Wang, MD, Vascular and Endovascular Therapy  
 Virginia Wong, MD, Vascular and Endovascular Surgery  
 Kenneth Woodside, MD, Transplantation, Hepatobiliary and  
 Pancreatic Surgery

**MetroHealth Medical Center****CHAIRMAN**

Christopher Brandt, MD, General Surgery, Minimally Invasive,  
 Burns, Endoscopy

**VICE CHAIRMAN**

Christopher McHenry, MD, General Surgery, Endocrine, Head  
 and Neck

**PROFESSORS**

Christopher Brandt, MD, General Surgery, Minimally Invasive,  
 Burns, Endoscopy  
 Richard Fratianne (Emeritus), MD, Burn Surgery  
 Edward Mansour (Emeritus), MD, Surgical Oncology  
 Christopher McHenry, MD, General Surgery, Endocrine, Head  
 and Neck  
 Charles Yowler, MD, Trauma/Critical Care, Burn Surgery

**ASSOCIATE PROFESSORS**

Jeff Alexander, MD, Vascular Surgery  
 Bruce Averbook, MD, Surgical Oncology  
 Jeff Claridge, MD, Trauma/Critical Care  
 John Como, MD, Trauma/Critical Care  
 Paul Priebe, MD, General Surgery, Endoscopic, Colorectal  
 Jean Stevenson, MD, Surgical Oncology / Breast Surgery

**ASSISTANT PROFESSORS**

Walter Cha, MD, General and Bariatric Surgery  
 Natalie Joseph, MD, Surgical Oncology  
 Jeremy Lipman, MD, Colorectal Surgery, Surgical Endoscopy,  
 Minimally Invasive Surgery  
 Amy McDonald, MD, Trauma/Critical Care  
 Christopher Smith, MD, Vascular Surgery/ Endovascular  
 Surgery

**Louis B. Stokes Cleveland VA Medical Center****CHIEF AND PROGRAM DIRECTOR**

Frederick D. Cason, Jr., MD

**ASSOCIATE PROFESSORS**

Jessie Jean-Claude, MD, Vascular Surgery  
 Joel Peerless, MD, Surgical Critical Care  
 James Sampliner, MD, General Surgery

**ASSISTANT PROFESSORS**

Gilles Pinault, MD, Vascular Surgery  
 Melanie Lynch, MD, Surgical Oncology, Breast Surgery  
 Brian Cmolik, MD, Cardiothoracic Surgery  
 Mujjahid Abbas, MD, General Surgery

**CLINICAL INSTRUCTORS**

Edward Noguera, MD, Anesthesiology, Critical Care



Chuck Sullivan, Academic Resident Program Coordinator

**RESIDENTS**

Our surgical residents are listed by year along with the  
 medical school they attended.

**CHIEF RESIDENTS**

Manjunath Haridas, Bangalor Medical College  
 Nathaniel Liu, Case Western Reserve University  
 Ronson Madathil, University of Pittsburgh  
 Craig Messick, University of Texas  
 Michael Rosenbaum, Case Western Reserve University  
 Joseph Trunzo, Wright State University

**4TH YEAR RESIDENTS**

Karem Harth, SUNY Stony Brook University  
 Matthew Hubbard, University of Rochester  
 Jennifer Lee, University of Rochester  
 Kristin Majors, University of Louisville  
 Joseph Posluszny, University of North Carolina;  
 University of Chicago  
 Jacquellenn Stuhldreher, Emory University



### 3RD YEAR RESIDENTS

**Robert Armstrong**, Wright State University  
**Jeffrey Blatnik**, Case Western Reserve University  
**Matthew Brown**, Texas A&M University  
**Amir Fathi**, Tabriz University of Medical Sciences  
**Michelle Lee**, University of Pennsylvania  
**William Leukhardt**, The Ohio State University Medical Center  
**Julie Pultinas**, University of Cincinnati  
**Liming Yu**, Shanghai Medical University

### 2ND YEAR RESIDENTS

**Akhil Chawla**, University of Cincinnati  
**Iuliana Dit**, Wayne State University  
**James Gatherwright**, Case Western Reserve University  
**Donald Harvey**, Case Western Reserve University  
**Andrea King**, University of New Mexico  
**Jonathan Kwong**, University of Medicine and Dentistry of New Jersey  
**Justin Larson**, St. Louis University  
**Thomas Martin**, Case Western Reserve University  
**Luke Rothermel**, Wright State University  
**Jonah Stulberg**, Case Western Reserve University

### 1ST YEAR RESIDENTS

**Christopher Bohac**, University of Illinois  
**Andrew Bushley**, Case Western Reserve University  
**Christina Cheng**, University of Buffalo  
**Lauren Chmielewski**, Case Western Reserve University  
**David Collette**, Case Western Reserve University  
**Thomas Cowan**, Case Western Reserve University  
**Benjamin Crawshaw**, University of Rochester  
**Susan Dong**, Case Western Reserve University  
**Jonathan Frankel**, Case Western Reserve University  
**Vineeta Gahlawat**, GSVM Medical College  
**Charles Jones**, St. George's University  
**Michael Karns**, University of Cincinnati  
**Kristopher Katira**, Louisiana State University  
**Daniel Kendrick**, SUNY Upstate

**Jonathan Kiechle**, Georgetown University  
**Craig Lance**, Case Western Reserve University  
**Arnab Majumder**, Ohio State University  
**Sean Mazloom**, Chicago Medical School  
**Karolina Mlynek**, Poznan University  
**Cynthia Nguyen**, Baylor College of Medicine  
**Linda Nguyen**, University of Sint Eustatius  
**Ryan Nord**, Albert Einstein College of Medicine  
**Jeanne Pan**, University of Texas  
**Clayton Petro**, University of Cincinnati  
**Claire Shannon**, University of Rochester  
**Anthony Swatek**, University of Kansas  
**William Tabayoyong**, University of Iowa  
**Andrew Tsai**, University of Minnesota  
**Yvonne Tsai**, Pennsylvania State University  
**Charles Wojnarski**, Jagiellonian University

### ALLEN SCHOLARS

**Matthew Allemang**, Ohio State University  
**Aman Banerjee**, Virginia Commonwealth University  
**Katherine Kelly**, University Chicago  
**David Krpata**, University of Arizona  
**Anthony Visoni**, SUNY Downstate Medical Center

### FELLOWS

**Alexander Chang**, Vascular Surgery  
**Constantinos Constantinou**, Vascular Surgery  
**Joanne Favuzza**, Colorectal Surgery  
**Matthew Fourman**, MIS, Bariatric Surgery  
**Eric Pauli**, Laparoendoscopic Surgery



**GRADUATES****2011****Joseph Golob, MD**

Critical Care Fellowship  
MetroHealth Medical Center  
Cleveland, Ohio

**Judy Jin, MD**

Endocrine Fellowship  
Cleveland Clinic Foundation  
Cleveland, Ohio

**Shafer Khan, MD**

Plastic Surgery Fellowship  
Wayne State University  
Detroit, Michigan

**Iziokhai Obokhare, MD**

Colorectal Research Fellowship  
OSHER Institute  
New Orleans, Louisiana

**Krzysztof Wikiel, MD**

Minimally Invasive Fellowship  
University of Pittsburgh  
Pittsburgh, Pennsylvania

**Christina Williams, MD**

Critical Care Fellowship  
University of Cincinnati  
Cincinnati, Ohio

**2010****Pejman Babakhanlou, MD**

Private Practice  
Anaheim, California

**Amy Coulter, MD**

Vascular Fellowship  
SUNY Buffalo Medical Center  
Buffalo, New York

**Rahul Gohil, MD**

Facial Plastic Surgery Fellowship  
University of Chicago  
Chicago, Illinois

**Michael McGee, MD**

Colon and Rectal Fellowship  
Cleveland Clinic  
Cleveland, Ohio

**Yagnik Pandya, MD**

MIS Fellowship  
Boston University  
Boston, Massachusetts

**Jessica Summers, MD**

Surgical Critical Care Fellowship  
MetroHealth Medical Center  
Cleveland, Ohio

**2009****Jeremy Lipman, MD**

Colon and Rectal Fellowship  
Cleveland Clinic Foundation  
Cleveland, Ohio

**Ronald Matteotti, MD**

Surgical Oncology Fellowship  
Fox Chase Cancer Center  
Philadelphia, Pennsylvania

**Dinesh Vyas, MD**

Private Practice  
St. John's Mercy Hospital  
St. Louis, Missouri

**Hiba Abdel Aziz, MD**

Trauma and Critical Care Fellowship  
MetroHealth Medical Center  
Cleveland, Ohio

**Frances Allocco, MD**

Minimally Invasive Surgery  
Fellowship  
Methodist Hospital  
Houston, Texas

**Steven Bibevski, MD**

Thoracic Surgery Fellowship  
University of Michigan Hospitals  
Ann Arbor, Michigan

**Sofia Naz, MD**

Acute Care Fellowship  
University of Pittsburgh Medical  
Center  
Pittsburgh, Pennsylvania

**Roy Phitayakorn, MD**

Endocrine Surgery Fellowship  
The Massachusetts General  
Hospital and Fellowship, Medical  
Simulation  
Gilbert Program in Medical  
Simulation and Harvard Macy  
Institute  
Harvard Medical School  
Boston, Massachusetts

**2008****Diya Alaedeen, MD**

Minimally Invasive Surgery Fellowship  
University of Miami  
Miami, Florida

**Chunjie Yang, MD**

Staff at Chenango Memorial Hospital  
Norwich, New York

**Niranjan Shintre, MD**

Private Practice  
Coral Springs Medical Center  
Coral Springs, Florida

**2007****Anna B. Hatchett, MD**

Private Practice  
Greenville, Alabama

**Meiying Kuo, MD**

Hand Fellowship  
Royal College of Physicians and  
Surgeons  
Toronto, Ontario, Canada

**Adam Martin, MD**

Private Practice  
Ashland, Ohio

**Kerri Simo, MD**

Transplant Fellowship  
University of North Carolina  
Hospitals  
Chapel Hill, North Carolina

**Rajnish Tandon, MD**

Private Practice  
Hartford, Connecticut

**Jenny Ziembicki, MD**

SICU Fellowship  
MetroHealth Medical Center  
Cleveland, Ohio

**2006****Faheem Akhtar, MD**

Fellowship, Vascular Surgery  
Loma Linda University

**Hitesh Amin, MD**

Private Practice

**Teng Lee, MD**

Fellowship, Endovascular Surgery  
Lund University

**Melanie Lynch, MD**

Fellowship, Surgical Oncology  
University Hospitals of Cleveland

**Joseph Skitzki, MD**

Fellowship, Surgical Oncology  
Roswell Park Cancer Institute



**Michael Wolfe, MD**  
Fellowship, Plastic Surgery  
Albert Einstein Medical Center

### 2005

**Rodrigo Sandoval, MD**  
Fellowship, Hepatobiliary and  
Multi-Organ Transplant Surgery  
Columbia University

**Rasa Zarnegar, MD**  
Fellowship, Endocrine Surgery  
University of California at San  
Francisco

**Khaled Abdelhady**  
Fellowship, Cardiothoracic Surgery  
University of Illinois at Chicago

**Nasim Hedayati, MD**  
Fellowship, Vascular Surgery  
Baylor College of Medicine

**Krishna Mannava, MD**  
Fellowship, Vascular Surgery  
The Oschner Clinic

### 2004

**Kian Mostafavi, MD**  
Fellowship, Vascular Surgery  
Wake Forest University

**Anastasios Polimenakos, MD**  
Fellowship, Cardiothoracic Surgery  
Washington University, St. Louis

**Melissa Times, MD**  
Fellowship, Colorectal Surgery  
Henry Ford Hospital  
Fellowship  
Robert Woods Johnson Foundation

**Vladimir Dubchuk, MD**  
Private Practice  
Cleveland, Ohio

**John Lee, MD**  
Fellowship, Critical Care  
University of Pittsburgh

**James Merlino, MD**  
Fellowship, Colorectal Surgery  
Cleveland Clinic Foundation  
Academic Practice  
Case-MetroHealth Medical Center

### 2003

**Joshua Gady, MD**  
United States Air Force

**Anastasios Konstantakos, MD**  
Fellowship, Cardiothoracic Surgery  
Beth Israel-Deaconess Medical  
Center

**Ronald Tesoriero, MD**  
United States Navy

**Joseph Ambrose, MD**  
Private Practice  
Canton, Ohio

**Christopher Compton, MD**  
Fellowship, Vascular Surgery  
University of Pittsburgh

**Michael Firstenberg, MD**  
Fellowship, Cardiothoracic Surgery  
The Ohio State University

### 2002

**J. Timothy Sherwood, MD**  
Fellowship, Cardiothoracic Surgery  
University of Colorado  
Academic Practice  
Johns Hopkins

**Scott Wilhelm, MD**  
Fellowship, Endocrine Surgery  
Rush-Presbyterian St. Luke's  
Medical Center  
Academic Practice  
University Hospitals of Cleveland

**Virginia Wong, MD**  
Fellowship, Vascular Surgery  
University Hospitals of Cleveland  
Academic Practice  
University Hospitals of Cleveland

**Jason Foster, MD**  
Fellowship, Surgical Oncology  
Roswell Park Cancer Institute

**David Kabithe, MD**  
Private Practice  
Middletown, Ohio

**Christopher Kwon, MD**  
Fellowship, Cardiothoracic Surgery  
Yale University

**Dvora Nelson, MD**  
Private Practice  
Elyria, Ohio

### 2001

**Amy McDonald, MD**  
Fellowship, Trauma/Critical Care  
University of Cincinnati  
Academic Practice  
MetroHealth Medical Center

**Elizabeth Mittendorf, MD**  
United States Air Force  
Fellowship, Surgical Oncology  
MD Anderson Cancer Center

**John van Aalst, MD**  
Fellowship, Plastic Surgery  
Indiana University  
Academic Practice  
University of North Carolina

**Aviv Ben Meir, MD**  
Fellowship, Minimally Invasive  
Surgery  
Oregon Health Sciences University  
Private Practice  
Cleveland, Ohio



**Peter Hallowell, MD**  
Academic Practice  
University Hospitals of Cleveland

**John Jasper, MD**  
Academic Practice  
University Hospitals of Cleveland /  
Cleveland VAMC

**Howard Lederer, MD**  
Fellowship, Bariatric Surgery  
University of Minnesota  
Private Practice  
Minnetonka, Minnesota

**2000**  
**David Harrison, MD**  
Private Practice  
Newburgh, New York

**Natalie Joseph, MD**  
Fellowship, Surgical Oncology  
Fox Chase Cancer Center  
Academic Practice  
Fox Chase Cancer Center

**Ashwani Rajput, MD**  
Fellowship, Surgical Oncology  
Roswell Park Cancer Institute  
Academic Practice  
Roswell Park Cancer Institute

**Lisa Weinstein, MD**  
Fellowship, Colorectal Surgery  
Oschner Clinic  
Private Practice  
Denver, Colorado

**George Dwyer, MD**  
Fellowship, Critical Care  
Massachusetts General Hospital

**Debora Gama Lima, MD**  
Fellowship, Minimally Invasive  
Surgery  
Mayo Clinic, Scottsdale, Arizona

**Claudia Goettler, MD**  
Fellowship, Trauma/Critical Care  
University of Pennsylvania  
Academic Practice  
Eastern Carolina University

**Eric Hahn, MD**  
Fellowship, Minimally Invasive  
Surgery  
Private Practice  
Fremont, California

**1999**  
**Steven Panaro, MD**  
Private Practice  
Tilton, New Hampshire  
Residency, Anesthesiology  
Massachusetts General Hospital

**Steven Rosenblatt, MD**  
Fellowship, Minimally Invasive  
Surgery  
Cleveland Clinic Foundation  
Academic Practice  
Cleveland Clinic Foundation

**Debra Tarantino, MD**  
Fellowship, Colorectal Surgery  
St. Luke's-Roosevelt Hospital  
Private Practice  
Millburn, New Jersey

**Kip Wells, MD**  
Cardiothoracic Surgery  
University of Pittsburgh  
Private Practice  
Hobbs, New Mexico

**Jeffrey Hazey, MD**  
Fellowship, Minimally Invasive  
Surgery  
Cleveland Clinic Foundation  
Academic Practice  
The Ohio State University

**Amy Kells, MD**  
Fellowship, Trauma/Critical Care  
Maryland Shock Trauma  
Private Practice  
Brooklyn, New York

**Kyung Kim, MD**  
Private Practice

**Somchai Limsrichamrern, MD**  
Fellowship, Transplantation  
University of Chicago  
Academic Practice  
Bangkok, Thailand

**1998**  
**Anthony Ripepi, MD**  
Private Practice  
Pittsburgh, Pennsylvania



**Bernardo Sandoval, MD**  
Fellowship, Cardiothoracic Surgery  
University of Texas Southwest,  
Dallas  
Academic Practice  
Quito, Ecuador

**Christopher Smith, MD**  
Fellowship, Vascular Surgery  
Private Practice  
Philadelphia, Pennsylvania

**Rebecca Yang, MD**  
Fellowship, Breast Surgery  
University Hospitals of Cleveland  
Academic Practice  
Lahey Clinic

**Donald Keenan, MD**  
Academic Practice  
University of Pittsburgh

**Steven Kelly, MD**  
United States Army  
Private Practice  
Canton, Ohio

**James Madura, MD**  
Academic Practice  
Cook County-Rush University

**Gilles Pinault, MD**  
Fellowship, Vascular Surgery  
Fellowship, Critical Care  
University Hospitals of Cleveland  
Academic Practice  
Cleveland VAMC

## FREQUENTLY ASKED QUESTIONS

- Open door policy with easy access to meet with the Chairman and Program Director as well as with all other faculty.
- Monthly evaluation of residents with constructive feedback.
- Free participation in the scheduled evening meetings of the Cleveland Surgical Society.
- Insurance coverage (Health/Dental, Malpractice, Disability and additional family coverage available).
- Expenses for presentation of scholarly work at national meetings.
- Departmental residency retreats dedicated to a critical evaluation of the residency and to improving the educational environment and experience.
- Resident participation on the Residency Committee and with applicant recruitment.
- House staff hospital libraries and access to medical school libraries (Allen Memorial Library and Health Sciences Library).
- Paid maternity/paternity leave is six weeks including any accrued vacation for the year (based on American Board of Surgery Regulations).
- Uniforms and scrubs are supplied and laundered by the hospital.
- Vacation is three weeks per year for interns and four weeks per year for other residents.
- No more than on-call every fourth night.
- Departmental internet site for communication, teaching, and recording case logs.
- Stipends received for each year after graduating from medical school:
  - 1st year: \$48,776
  - 2nd year: \$50,516
  - 3rd year: \$51,944
  - 4th year: \$53,754
  - 5th year: \$55,830
  - 6th year: \$57,905
  - 7th year: \$59,639
- Meal tickets are provided for all on-call periods.
- Optional two years of research.





## DEPARTMENTAL CONFERENCES

### Educational Conference

Every Wednesday  
9:00-10:00 AM at University Hospital  
7:00-8:00 AM at MetroHealth Medical Center

### Journal Club

Monthly  
Off-campus at local restaurant

## UNIVERSITY HOSPITALS CASE MEDICAL CENTER

### Department Wide Conferences

#### Morbidity and Mortality Conference

Every Wednesday (except 4<sup>th</sup> Wednesday)  
7:00-8:00 AM

#### Grand Rounds

Every Wednesday  
8:00-9:00 AM  
(4<sup>th</sup> Wednesday, 7:00 – 8:00 AM)

### Service Specific Conferences

#### Multidisciplinary GI Tumor Board

Every Wednesday  
Radiation Oncology Conference Room, Lerner Tower, B151

#### Transplant Journal Club

3rd Thursday of the month  
Lerner Tower 2060

#### Interdisciplinary Breast Conference

Thursdays  
Bolwell XRT Conference Room

#### Vascular Surgery Conference

Fridays  
Vascular Library

#### Colorectal Conference

Thursdays  
Lakeside Conference Room  
5:00-6:00 PM

#### Combined General Surgery / GI conference

Tuesdays  
5:00-6:00 PM

## METROHEALTH MEDICAL CENTER

### Department Wide Conference

#### Quality Assurance

Tuesdays  
Rammelkamp, R170

### Service Specific Conferences

#### Trauma Chairman Rounds

Thursdays  
SICU

#### Blue Surgery Conference

Tuesdays  
H936

#### Breast Surgery Conference

Tuesdays  
Radiology Conference Room

#### General Surgery Conference

Thursdays  
Rammelkamp 170

#### Burn Surgery Conference

Thursdays  
BICU

#### Vascular Surgery Conference

Fridays  
Radiology Conference Room RG30

#### Green Surgery Conference

Fridays  
H936



## LOUIS B. STOKES CLEVELAND VA MEDICAL CENTER

### Department Wide Conferences

#### MONDAYS

#### Breast Cancer Case Conference

8:00-9:00 AM  
Dept. of Radiology Conference Room

#### GI Multidisciplinary Tumor Board Conference

12:00-1:00 PM  
Lincoln Conference Room

#### TUESDAYS

#### Vascular Section Walk Rounds

7:30-9:00 AM  
Ward 5A

#### Multidisciplinary Vascular Conference

9:00-10:00 AM  
SICU Conference Room

#### THURSDAYS

#### Morbidity and Mortality Conference

(General and Vascular Surgery Sections)  
7:00-8:00 AM  
Conference Room K-119

#### Tumor Board Conference

8:00-9:00 AM  
Conference Room K-119

#### General Surgery Indications Conference

9:00-10:00 AM  
SICU Conference Room

#### Critical Care Walk Rounds

10:00-11:00 AM  
SICU

#### Pathology Gross and Microscope Conference

11:00 AM-12:00 PM (monthly only)  
Dept. of Pathology Morgue Conference Room

#### FRIDAYS

#### CV Surgery/Cardiology Multidisciplinary Catheterization Conference

7:00-8:00 AM  
Cardiac Catheterization Lab Conference Room

## FELLOWSHIP TRAINING

While our residency programs offer experience in all required areas, the trend is towards specialized training. This trend has accelerated in recent years and the Department of Surgery has created several fellowships in addition to the Vascular Surgery and Cardiothoracic fellowships. In 2005, a clinical fellowship in Colorectal Surgery was established. In July of 2006, in addition to the clinical fellowship in Colorectal Surgery, the following fellowships in General Surgery were established:

- Laparoscopic Surgery
- Endoscopic Surgery
- Surgical Oncology

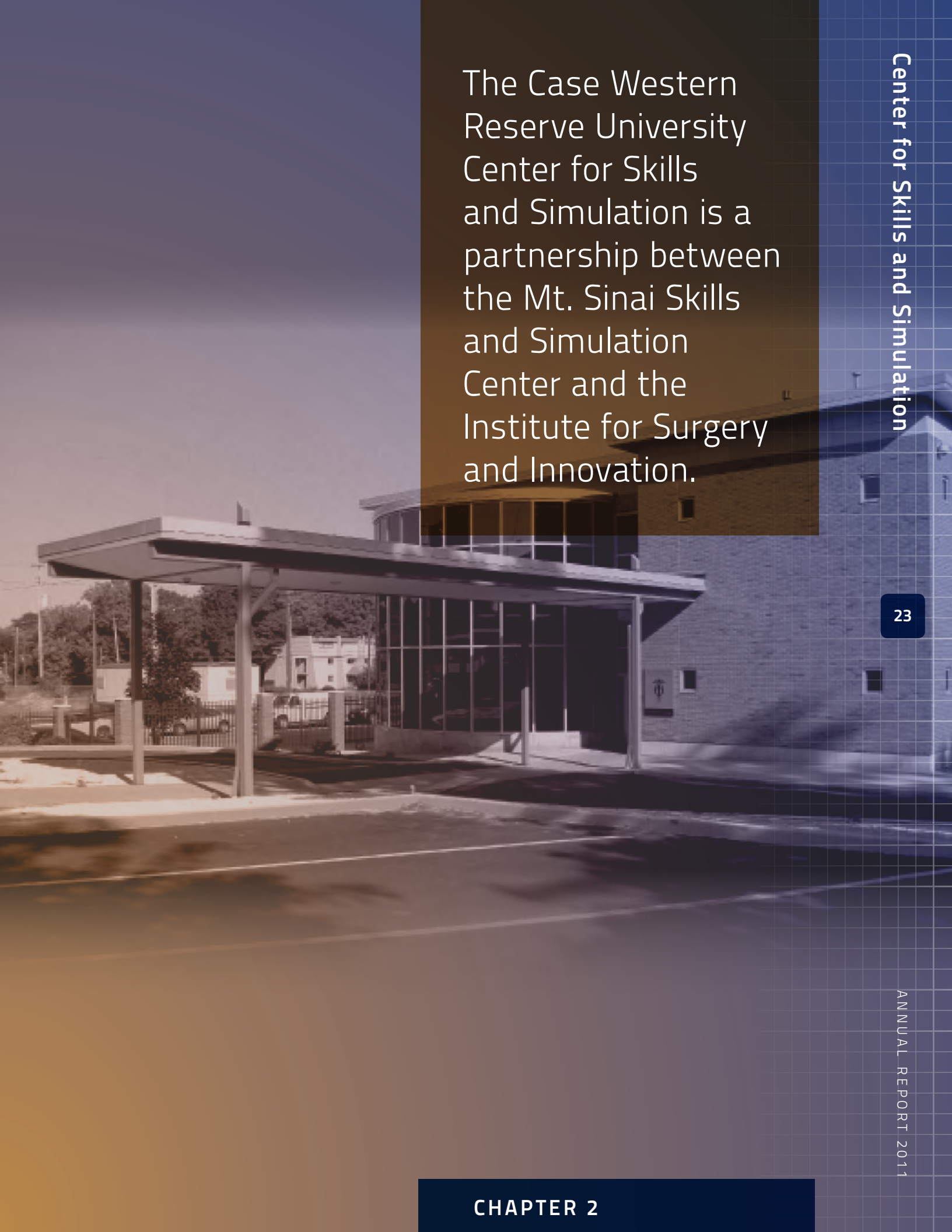
These fellowships are highly selective and nationally recognized programs. In July 2010, the Colorectal Fellowship was accredited by the American Board of Colorectal Surgery.



## MEDICAL STUDENTS

Third year students from the Case Western Reserve University School of Medicine rotate through the Department of Surgery in small groups for eight weeks at a time as a part of their curriculum. While the students are in the clerkship they are assigned to a team of attending surgeons and residents to shadow in the OR, clinics and at Departmental education conferences. The students also attend a series of 28 student-geared lectures, prepared and presented by the Department's faculty members. Rita Rys is the Clerkship Coordinator who works in conjunction with Dr. Marjie Persons, the Clerkship Director.





The Case Western Reserve University Center for Skills and Simulation is a partnership between the Mt. Sinai Skills and Simulation Center and the Institute for Surgery and Innovation.





The CWRU CSS offers national and international resources in a wide spectrum of learning modalities with the ultimate goal of improving health care quality and efficiency. The CWRU CSS provides the opportunity for clinical and non-clinical educational excellence.

Since its inception, CWRU CSS has embraced the multi-disciplinary approach to meet the needs of many trainees within the context of state-of-the-art facilities and high quality educational programs. It is a Comprehensive Accredited Education Institute by the American College of Surgeons.

The mission of the CWRU CSS is to be a uniting force for the advancement of health care education. CWRU CSS strives to:

- Provide assessment, training, and evaluation for multiple levels of learners to achieve patient safety through leadership, research, and innovative learner centered experiences;
- Be a uniting force bringing all of the region's health care institutions together in collaboration and cooperation;

- Provide unparalleled educational facilities both on site and in situ;
- Be an invaluable local, national and international resource for continuing education for health care providers;
- Be a dynamic industrial partner in testing, development, manufacturing, and marketing simulation technology; and
- Be a center of excellence in research and leadership development.





### Mt. Sinai Skills and Simulation Center at Case Western Reserve University (MSSSC)

MSSSC provides assessment, training, testing and research using state-of-the-art simulation modalities either on site or in situ. The expert staff facilitates the teaching and evaluation of clinical and nonclinical skills such as those required by the Accreditation Council for Graduate Medical Education (ACGME) and for Certifying Boards. MSSSC provides opportunities for learners at all levels including undergraduate students, medical, nursing and dental students, health care providers and professionals from all disciplines, practicing physicians and nurses, first responders, military personnel and community members.

The MSSSC offers an outcomes-driven curriculum which focuses on improving patient-provider communication and reducing medical errors and health care costs. In addition to being able to customize any simulation experience, the Center has a vast library of realistic multidisciplinary scenarios which can incorporate all forms of simulation including standardized patients, basic and complex task trainers, high fidelity manikins, virtual reality trainers and second life programs to develop clinical and nonclinical skills such as critical thinking, problem-solving and teamwork.

### Institute for Surgery and Innovation (ISI)

ISI is an academically-affiliated institute which provides training, research, and technological innovation for surgeons, residents and fellows, medical students, and allied health care professionals.

The Center for Training provides continuing education and hands on training for surgeons, residents and fellows, medical students and allied health care professionals.

The ISI Center for Innovation focuses on product development and collaboration with industry to provide advice and guidance for future product development. The advantages of this collaboration include:

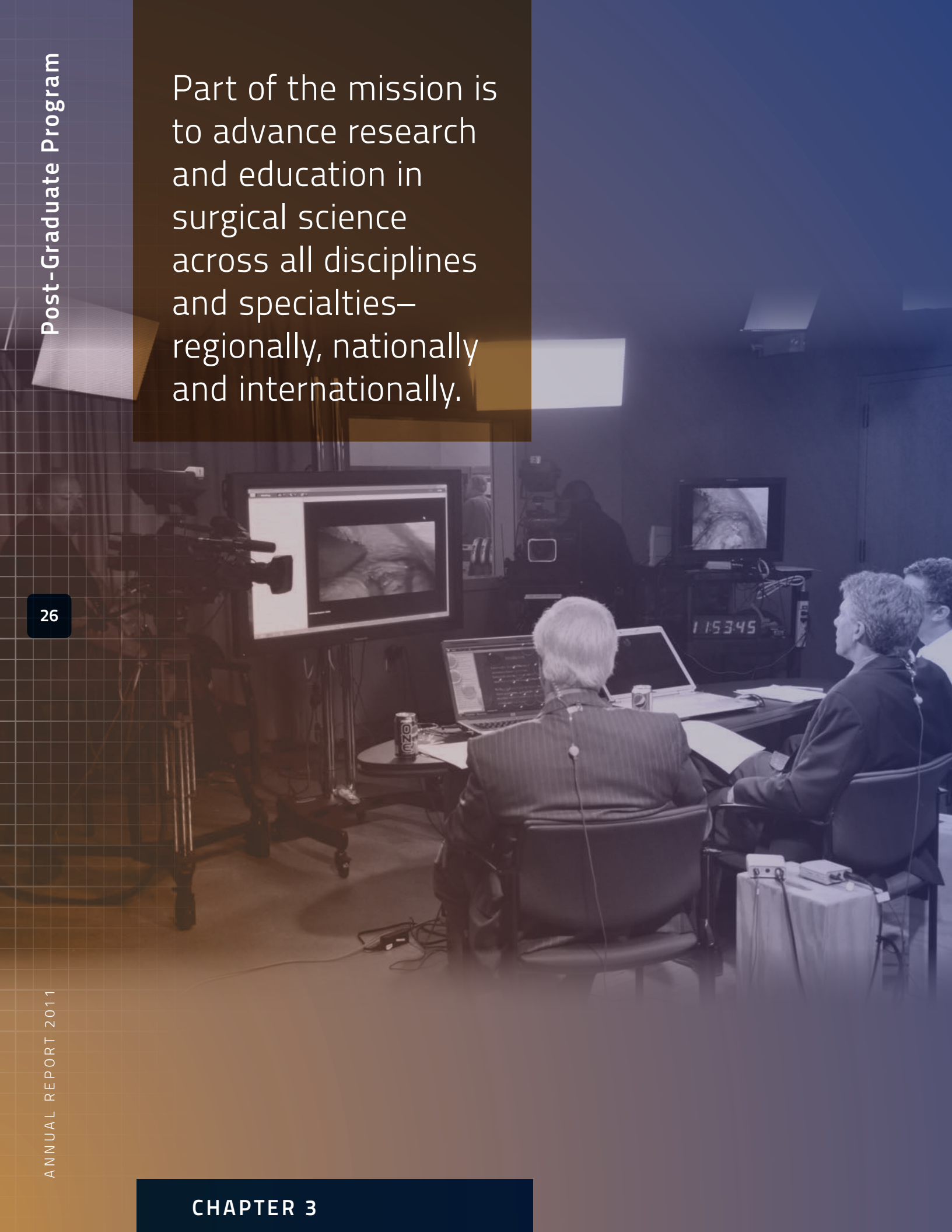
- Access to expert, experienced clinicians
- A platform for testing new innovative technology
- A mechanism for developing and sharing new technology

In addition to facilitating the rapid implementation of new technology which will advance patient care opportunities, the ISI Center for Research supports research at both the institutional and multicenter levels targeting basic science and education. These innovations will continue to:

- Extend the knowledge of disease processes and foster the introduction and improvement of treatment modalities
- Evaluate and improve the educational process for learners at all levels



Part of the mission is to advance research and education in surgical science across all disciplines and specialties—regionally, nationally and internationally.





Part of the mission of the Department of Surgery at Case Western Reserve University School of Medicine is to advance research and education in surgical science across all disciplines and specialties—regionally, nationally and internationally.

Post-graduate education is a goal of the Department of Surgery. Training opportunities are offered throughout the year, including web symposiums and on-site courses.

**INTERNATIONAL WEB SYMPOSIUMS**

We continue to offer these cost-effective interactive CME courses which are broadcast from our state-of-the-art onsite studio. Web symposiums provide a way for surgeons and other specialists to collaborate with others around the globe for a fraction of the cost of traditional meetings. Learners participate in the comfort of their office or home, secure their necessary CME credits, and benefit from the expertise of major opinion leaders from across the globe. Debates, panel discussion, difficult case studies, and interactive polls are all part of the on-line experience. Over 1,500 professionals have

participated in our webinars in 2011, representing over 30 countries. Topics in 2011 included:

- State of the Art in Pediatric MIS
- Pediatric Tricks of the Trade
- Radiosurgery for Surgeons
- Female Urology
- General Surgery Tricks of the Trade
- Pediatric Chest Wall Deformities
- Tricks of the Trade in Colorectal Surgery
- Pediatric Minimally Invasive Surgery Showcase in Asia
- SAGES Resident Training (various topics include bariatric surgery, hernia mesh primer)

**ON-SITE COURSES**

We provide on-site training courses, that include CME, as well as corporate-sponsored offerings such as:

- **Laparoscopic Colorectal, Advanced Laparoscopic Hernia and Bariatric Surgery mini-fellowships:** These national multi-day, corporate-sponsored programs include didactics, live surgical case observations, and hands-on sessions in the laboratory.





- Animate Skills Lab programs:** Hands-on training on various disciplines for surgeons and other specialists, fellows and residents, including surgical treatment of craniocervical junction, surgical treatment of migraine headaches, OB/GYN and orthopedic abnormalities.
- Abdominal Wall Reconstruction Summit:** Annual multi-day offering which exposes participants to all aspects of abdominal wall reconstructions, including complex abdominal wall reconstruction techniques, minimally invasive hernia repairs, parastomal hernia repairs, post traumatic abdominal wall defects, and managing congenital neonatal defects.
- Colorectal Residents Career Course:** Annual fellows career development course offering topics such as building a CV, coding, malpractice, publishing, financial planning, and learning from mistakes. This 2-day course also provides a laparoscopic workshop which includes virtual simulation and hands-on laboratory session.
- Advances in Minimally Invasive Surgery:** Annual multi-day program in conjunction with Ohio State University School of Medicine. This course offers a comprehensive look at new techniques and technologies related to the most recent advances in minimally invasive surgery.



## 2011 NAMED LECTURESHIPS

### 25th Annual William D. Holden, MD Lecture

March 5, 2011  
"Measuring and Improving Performance in Surgical Education"  
Gary L. Dunnington, MD  
J. Roland Folse Professor and Chair  
Department of Surgery  
Southern Illinois University School of Medicine

### Mendelsohn Memorial Lecture

April 6, 2011  
"Advances in the Treatment of Malignant Pleural Mesothelioma"  
David J. Sugarbaker, MD  
Chief, Division of Thoracic Surgery  
Brigham & Women's Hospital  
Richard E. Wilson Professor of Surgical Oncology  
Harvard Medical School

### Dudley P. Allen, MD Memorial Lecture

April 27, 2011  
"Assassinations: The Medical and Surgical Care of the Four Assassinated Presidents"  
Donald D. Trunkey, MD, FACS  
Professor Emeritus  
Department of Surgery  
Oregon Health & Science University

### The 24th Annual Claude S. Beck Lectureship in Cardiac Surgery

September 17, 2011  
"Neurocognitive Dysfunction in Cardiac Surgery: Bench to Bedside"  
William A. Baumgartner, MD  
The Vincent L. Gott Professor of Cardiac Surgery  
Vice Dean for Clinical Affairs  
Johns Hopkins University  
Baltimore, Maryland

### Debra J. Graham, MD Endowed Lectureship in Surgical Education

October 5, 2011  
"Multitasking: Teaching and Assessing in the OR"  
Debra DaRosa, PhD  
Vice Chair of Education  
Feinberg School of Medicine  
Northwestern University

### 7th Annual Edward G. Mansour, MD Lectureship in Surgical Oncology

November 5, 2011  
"Melanoma: Myths and Misconceptions"  
Daniel G. Coit, MD  
Professor of Surgery  
Weill Medical College of Cornell University  
Attending Surgeon  
Memorial Sloan-Kettering Cancer Center

### The 5th Annual Robert J. Izant, Jr., MD Memorial Lecture

November 30, 2011  
"Sustaining Innovation and Dr. Robert Izant's Legacy"  
Thomas M. Krummel, MD  
Emile Holman Professor and Chair  
Department of Surgery  
Stanford University School of Medicine



Our faculty's mission is "to heal, to teach and to discover."

# Cardiac Surgery



## Adnan Cobanoglu, MD

### Chief, Cardiac Surgery

Cardiothoracic Surgery, Complex Coronary and Valvular Heart Surgery, Congenital Heart Surgery, Lung and Heart Transplantation

**Medical School:** Ankara University, Ankara, Turkey

**Residency:** Episcopal Hospital, Philadelphia; Thomas Jefferson University Hospital, Philadelphia

**Fellowship:** Oregon Health Sciences Center



## Ari Blitz, MD

### Cardiac Surgery

Pediatric Cardiac and Cardiothoracic Surgery

**Medical School:** Albert Einstein College of Medicine

**Residency:** Montefiore Medical Center

**Fellowship:** UCLA Ochsner Clinic



## Robert Boova, MD

### Cardiac Surgery

**Medical School:** Jefferson Medical College – Doctorate Medicine

**Residency:** Thomas Jefferson University Hospital

**M.S.:** Health Care Management: Harvard University



## Carlos Garcia, MD

### Cardiac Surgery

Valve Repair, Off-Pump Surgery

**Medical School:** University of Utah

**Residency:** Oregon Health Sciences University

**Fellowship:** Oregon Health Sciences University



## Alan Markowitz, MD

### Cardiac Surgery

Adult Cardiothoracic Surgery, Minimally Invasive Valve Repair and Replacement (Mini-Sternotomy and Heartport), Stentless Valves and Homografts, Off-Pump CABG

**Medical School:** Albany Medical College

**Residency:** University Hospitals of Cleveland



## Daniel van Heeckeren, MD

### Cardiothoracic Surgery

Adult Cardiac Surgery, Homografts and Autograft Valve Replacement

**Medical School:** Harvard Medical School

**Residency:** New Haven Hospital, Yale

**Fellowship:** Karolinska Institute, Sweden

## Pediatric Cardiothoracic Surgery



### Peter C. Kouretas, MD, PhD

**Chief, Pediatric Cardiothoracic Surgery**

Complex Neonatal Cardiac Surgery, Adult Congenital Heart Surgery, Mechanical Circulatory Support, Cardiac Transplantation

**Medical School:** Georgetown University

**Residency in General Surgery:** University of Virginia

**Residency in Cardiothoracic Surgery:** University of Pennsylvania

**Fellowship in Congenital and Pediatric Cardiothoracic Surgery, Transplantation:** Stanford University

**PhD in Circulatory Physiology:** Georgetown University

## Colorectal Surgery



### Conor Delaney, MD, MCh, PhD

**Vice Chairman, Department of Surgery**

**Division Chief, Colorectal Surgery**

Minimally Invasive Colorectal Surgery, Diverticulitis, Colonoscopy, Inflammatory Bowel Disease, Colorectal Cancer, and Rectal Pathology

**Medical School:** University College of Dublin; Royal College of Surgeons in Ireland

**Residency:** Mater Hospital; St. Vincent Hospital

**Fellowship:** University of Pittsburgh Medical Center; Cleveland Clinic Foundation

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### Brad Champagne, MD, FACS

**Colorectal Surgery**

**Fellowship Director**

Minimally Invasive Colorectal Surgery, Colorectal Cancer, Diverticulitis, Inflammatory Bowel Disease, Colonoscopy, Pelvic Floor Disease

**Medical School:** Upstate Medical University at Syracuse

**Residency:** Albany Medical Center, Albany

**Fellowship:** Georgia Colorectal Clinic



### Eric Marderstein, MD, MPH

**Colorectal Surgery**

Minimally Invasive Colorectal Surgery, Ulcerative Colitis, Crohn's Disease, Complex Reoperative Abdominal Surgery, Colon and Rectal Cancer, Diverticular Disease, Anorectal Disease

**Medical School:** University of Virginia School of Medicine

**Residency:** University of Pittsburgh Medical Center

**Fellowship:** Colorectal Surgery, Cleveland Clinic; Surgical Research, University of Pittsburgh Medical Center; Patient Safety, University of Pittsburgh Medical Center



### Harry Reynolds, Jr., MD

**Colorectal Surgery**

Inflammatory Bowel Disease, Colorectal Cancer, Rectal Pathology

**Medical School:** Case Western Reserve University School of Medicine

**Residency:** University Hospitals of Cleveland

**Fellowship:** Cleveland Clinic Foundation





**Sharon L. Stein, MD**

**Colorectal Surgery**

Minimally Invasive Colorectal Surgery, Inflammatory Bowel Disease, Crohn's Disease, Ulcerative Colitis and Preservation of fertility following pelvic surgery

**Medical School:** University of Colorado

**Residency:** Massachusetts General Hospital

**Fellowship:** New York-Presbyterian Hospital of Cornell and Columbia

General and Gastrointestinal Surgery

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**Michael Rosen, MD**

**Chief, Division of General and Gastrointestinal Surgery**

**Director, Case Comprehensive Hernia Center**

**General Surgery**

Gastrointestinal Surgery, Hernia Repair and Minimally Invasive Surgery

**Medical School:** University of Southern California

**Residency:** Massachusetts General Hospital

**Fellowship:** Cleveland Clinic Foundation; Carolinas Medical Center



**Vladimir Dubchuk, MD**

**General Surgery**

Surgical Pathology of the GI Tract, Minimally Invasive Surgery, Colorectal Surgery, Endoscopy, Thyroid, Parathyroid Surgery

**Medical School:** Lviv State Medical University

**Residency:** University Hospitals of Cleveland



**Seth Eisengart, MD**

**General Surgery**

General Surgery and Surgery of the Hand

**Medical School:** Finch University Medical School

**Residency:** Bronx Municipal Hospital Center



**Amitabh Goel, MD**

**General Surgery**

General Surgery, Minimally Invasive Surgery, Critical Care

**Medical School:** Queen's University

**Residency:** Western Pennsylvania University

**Fellowship:** University of Pittsburgh



**Cathy Graham, MD**

**General Surgery**

General Surgery, Breast Surgery, Trauma, Gastrointestinal Surgery, Emergency Medicine

**Medical School:** Duke University School of Medicine

**Residency:** University Hospitals of Cleveland

**Fellowship:** University Hospitals of Cleveland



**John Jasper, MD**

**General Surgery**

General Surgery, Minimally Invasive Surgery and Breast Surgery

**Medical School:** University of Minnesota

**Residency:** University Hospitals Case Medical School



**Leena Khaitan, MD, MPH**

**General Surgery**

**Director, Bariatric Surgery**

Minimally Invasive and Bariatric Surgery

**Medical School:** Case Western Reserve University School of Medicine

**Residency:** Lankenau Hospital, PA

**Fellowship:** Vanderbilt University Medical Center



**Tanmay Lal, MD**

**General Surgery, Transplant Surgery**

Renal Transplant Surgery

**Medical School:** Topiwala National Medical College

**Residency:** Thomas Jefferson University Hospital

**Fellowship:** University of Maryland; Hospital of the University of Pennsylvania



**Jeffrey Marks, MD**

**Director, Surgical Endoscopy**

**General Surgery**

Gastrointestinal Surgery, Endoscopy, and Minimally Invasive Surgery

**Medical School:** Tufts University School of Medicine

**Residency:** Mt. Sinai Medical Center, Cleveland

**Fellowship:** Mt. Sinai Medical Center, Cleveland



**Yuri Novitsky, MD**

**Co-director, Case Comprehensive Hernia Center**

**Director, Surgical Research**

**General Surgery**

Hernia Repair, Minimally Invasive Surgery, Gastroesophageal Disorders

**Medical School:** Albany Medical College

**Residency:** Mt. Sinai Medical Center and University of Massachusetts Medical Center

**Fellowship:** Minimally Invasive Surgery, Carolinas Medical Center



**Raymond Onders, MD**

**Director, Minimally Invasive Surgery**

**General Surgery**

Minimally Invasive Surgery, Anti-Reflux Surgery, and Diaphragm Pacing

**Medical School:** Northeastern Ohio College of Medicine

**Residency:** University Hospitals of Cleveland



**Jeffrey Ponsky, MD**

**Chairman, Department of Surgery**

**General Surgery**

Gastrointestinal Surgery, Endoscopy and Minimally Invasive Surgery

**Medical School:** Case Western Reserve University School of Medicine

**Residency:** University Hospitals of Cleveland



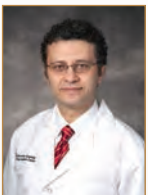
**Lisa Rock, MD**

**General Surgery**

General Surgery, Vascular Surgery

**Medical School:** Medical College of Pennsylvania

**Residency:** University Hospitals of Cleveland



**Alan Saber, MD, MS, FACS, FASMBS**

**Director, Metabolic Surgery**

**General Surgery**

Minimally Invasive Surgery, Bariatric Surgery

**Medical School:** Alexandria University School of Medicine, Egypt

**Residency:** Mount Sinai Medical Center, New York, NY

**Fellowship:** Bariatric Surgery and Minimally Invasive Surgery, The Cleveland Clinic, Florida



**Amy Swegan, MD**

**General Surgery**

General Surgery, Endoscopy

**Medical School:** University of Missouri; Kansas City School of Medicine

**Residency:** Northeast Ohio Universities College of Medicine; St. Elizabeth Health Center

## Oral and Maxillofacial Surgery



**Dale A. Baur, DDS**

**Division Chief, Oral and Maxillofacial Surgery**

**Chairman, Department of Oral and Maxillofacial Surgery**

**Case School of Dental Medicine**

Oral Cancer, Salivary Gland Tumors, Obstructive Sleep Apnea, Facial Plastic Surgery and Reconstruction

**Dental School:** Case Western Reserve University

**Residency:** William Beaumont Army Medical Center, El Paso, Texas

**Fellowship:** University of Michigan Medical Center, Ann Arbor, Michigan



**David Ash, DDS**

**Oral and Maxillofacial Surgery**

Dental Implants, Oral Diseases, Jaw Surgery

**Dental School:** Case Western Reserve University School of Dental Medicine

**Residency:** Medical College of Virginia





**Charles Babbush, DDS, MS**

**Oral and Maxillofacial Surgery**  
Dental Implants

**Dental School:** University of Detroit School of Dentistry/Boston University (Masters of Dental Science)

**Residency:** Mount Sinai Hospital in Cleveland



**Paul Bertin, DDS**

**Oral and Maxillofacial Surgery**  
ABOMS Examiner

**Dental School:** Case Western Reserve University School of Dental Medicine

**Residency:** MetroHealth Medical Center



**John Blakemore, DDS**

**Oral and Maxillofacial Surgery**  
Orthognathic Surgery/Implantology

**Dental School:** Case Western Reserve University School of Dental Medicine

**Residency:** University Hospitals of Cleveland



**William Blood, DDS, MD**

**Oral and Maxillofacial Surgery**  
Orthognathic Surgery/Implantology

**Dental School:** Case Western Reserve University School of Dental Medicine

**Medical School:** Case Western Reserve University School of Medicine

**Residency:** University Hospitals of Cleveland



**Michael Hauser, DMD, MD**

**Oral and Maxillofacial Surgery**  
Temporomandibular Joint Surgery (TMJ); Orthognathic Jaw Surgery

**Dental School:** Boston University, Henry M. Goldman School of Graduate Dentistry, Boston, Massachusetts

**Medical School:** University of Massachusetts Medical School, Worcester, MA

**Residency:** General Practice Residency in Dentistry, Albert Einstein College of Medicine; Bronx Municipal Hospital Center, Bronx, New York

**Internship:** Oral and Maxillofacial Surgery, Massachusetts General Hospital/Harvard School of Dental Medicine, Boston, Massachusetts; Assistant Resident, Chief Resident

**Fellowship:** Clinical Fellowship Harvard University, Boston, Massachusetts



**Robert D. Heckel, DMD**

**Oral and Maxillofacial Surgery**

**Dental School:** Case Western Reserve University

**Surgical Residency:** Louisiana State University

**Anesthesia Residency:** University Hospitals of Cleveland



**James Julian, DDS**  
**Oral and Maxillofacial Surgery**

**Dental School:** University of Nebraska at Lincoln  
**Residency:** Case Western Reserve University School of Dental Medicine; University Hospitals of Cleveland



**Frank Karfes, DDS**  
**Oral and Maxillofacial Surgery**

**Dental School:** University of Pittsburgh  
**Residency:** New York Hospital Cornell Medical Center, New York City  
**Fellowship:** University of Pennsylvania, Graduate School of Medicine and Oral Surgery



**Don P. Lewis, DDS**  
**Oral and Maxillofacial Surgery**

**Dental School:** Case Western Reserve University School of Dental Medicine  
**Residency:** University Hospitals of Cleveland  
**Fellowship:** Post Graduate, Charlotte Memorial, Charlotte, NC



**John P. Neary, DDS, MD**  
**Oral and Maxillofacial Surgery**  
 Facial Plastic Surgery

**Dental School:** Ohio State University Dental School  
**Medical School:** Louisiana State University School of Medicine  
**Residency:** Louisiana State University Medical Center  
**Fellowship:** American Academy of Cosmetic Surgeons/American College of Surgeons



**Faisal A. Quereshy, MD, DDS, FACS**  
**Assistant Professor, Residency Program Director**  
**Oral and Maxillofacial Surgery**

**Medical School:** Case Western Reserve University  
**Residency:** University Hospitals  
**Fellowship:** Institute of Facial Surgery, Utah



**Marion Wazney, DDS**  
**Oral and Maxillofacial Surgery**

**Dental School:** Case Western Reserve University School of Dental Medicine  
**Residency:** Mt. Sinai Hospital in Cleveland  
**Fellowship:** St. Luke's Medical Center



**Michael Zetz, DDS**  
**Oral and Maxillofacial Surgery**  
 Dental Implants, Oral Diseases, Jaw Surgery

**Dental School:** Ohio State University Dental School  
**Residency:** Medical University of South Carolina

## Pediatric Surgery

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### Edward Barksdale, MD

Vice Chairman, Department of Surgery  
 Division Chief, Pediatric Surgery  
 In-Utero Malformations, Short Bowel Syndrome

**Medical School:** Harvard Medical School  
**Residency:** Massachusetts General Hospital  
**Fellowship:** Children's Hospital Medical Center, Cincinnati, OH



### Scott Boulanger, MD

Pediatric Surgery  
 Minimally Invasive Surgery, Oncology

**Medical School:** Ohio State University  
**Residency:** State University of New York at Buffalo  
**Fellowship:** Children's Hospital of Buffalo; State University of New York at Buffalo



### Anthony L. DeRoss, MD

Pediatric Surgery  
 Assistant Professor of Surgery  
 Director of Pediatric Trauma

Pediatric General Surgery, Neonatal Surgery, Pediatric Thoracic Surgery, Pediatric Minimally Invasive Surgery, Trauma and Injury Prevention

**Medical School:** University of Pittsburgh School of Medicine, Pittsburgh, PA  
**Residency:** University of Vermont, Fletcher Allen Health Care, Burlington, VT  
**Fellowship:** St. Christopher's Hospital for Children, Philadelphia, PA



### Todd Ponsky, MD

Pediatric Surgery  
 Director, Pediatric Minimally Invasive Surgery Center

Minimally Invasive Surgery, Foregut Surgery, Gastroesophageal Reflux Disease and Inflammatory Bowel Disease

**Medical School:** Case Western Reserve University School of Medicine  
**Residency:** George Washington University  
**Fellowship:** Pediatric Surgery, National Children's Medical Center, Washington, DC; Advanced Minimally Invasive Pediatric Surgery, Rocky Mountain Hospital for Children, Denver, CO

## Surgical Oncology

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### Julian Kim, MD

Division Chief, Surgical Oncology  
 Melanoma, Sarcoma, Breast, GI Cancers

**Medical School:** Medical College of Ohio  
**Residency:** University of Maryland  
**Fellowship:** The Ohio State University





**John Ammori, MD**

**Surgical Oncology, General Surgery**

Upper GI and Hepatobiliary Surgery, Sarcoma, Melanoma, Breast

**Medical School:** University of Michigan

**Residency:** University of Michigan

**Fellowship:** Memorial Sloan-Kettering Cancer Center



**Jeffrey Hardacre, MD**

**Surgical Oncology, General Surgery**

**Head, Section of Pancreatic Surgery**

Gastrointestinal Surgery, Endoscopy, Pancreatic Surgery and Biliary Surgery

**Medical School:** Duke University School of Medicine

**Residency:** The Johns Hopkins Hospital

**Fellowship:** The Johns Hopkins Hospital; The Cleveland Clinic Foundation



**Rosemary Leeming, MD**

**Director of Regional Breast Center**

**Surgical Oncology, General Surgery**

Breast Surgery and Diseases of the Breast

**Medical School:** Hahnemann School of Medicine

**Residency:** University Hospitals of Cleveland; Mount Sinai Medical Center

**Fellowship:** Shadyside Hospital



**Marjie Persons, MD**

**Surgical Oncology, General Surgery**

Surgical Oncology and Diseases of the Breast

**Medical School:** SUNY

**Residency:** University Hospitals of Cleveland



**Robert Shenk, MD**

**Director of Breast Center UHMC**

Surgical Oncology, Breast, Melanoma, Pancreas, and Colon Metastases

**Medical School:** Case Western Reserve University School of Medicine

**Residency:** University Hospitals of Cleveland, National Cancer Institute, University Hospitals of Cleveland, MD Anderson Cancer Center



**Jerry Shuck, MD**

**Surgical Oncology, General Surgery**

Endocrine Surgery (Thyroid and Parathyroid Surgery)

**Medical School:** University of Cincinnati

**Residency:** Cincinnati General Hospital

**Military Service:** U.S. Army Surgical Research Unit



**Scott Wilhelm, MD**

**Surgical Oncology, General Surgery**

Endocrine Surgery (Thyroid, Parathyroid, Adrenal, Pancreatic and Carcinoid) and Minimally Invasive Surgery

**Medical School:** University of Cincinnati

**Residency:** University Hospitals of Cleveland

**Fellowship:** Rush-Presbyterian St. Luke's Medical Center

## Thoracic and Esophageal Surgery

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### Philip Linden, MD

#### Division Chief, Thoracic and Esophageal Surgery

Minimally Invasive (VATS) Lung and Esophageal Surgery, Thoracic Oncology, High Risk Chest Surgery, Lung Cancer in the Emphysema Patient

**Medical School:** University of Pennsylvania School of Medicine

**Residency:** Brigham and Women's Hospital

**Fellowship:** Brigham and Women's Hospital



### Jason Robke, MD

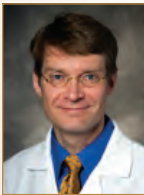
#### Thoracic and Esophageal Surgery

Thoracic Oncology, Esophageal Surgery, Minimally Invasive (VATS) Surgery, Airway and Esophageal Stenting, GERD, Paraesophageal Hernia Surgery, and YAG Laser Therapy

**Medical School:** Medical College of Ohio at Toledo

**Residency:** Allegheny Hospital

**Fellowship:** Allegheny General Hospital



### Carsten Schroeder, MD, PhD

#### Thoracic Surgery

Minimally Invasive Surgery (VATS), Lung Cancer and Esophageal Surgery, Airway and Esophageal Stenting, Navigation Bronchoscopy, Cyberknife Radiosurgery, Lung Transplant Reperfusion Injury/Rejection

**Medical School:** School of Medicine, Johannes Gutenberg University, Mainz, Germany

**Residency:** General Surgery Residency, Hannover University Hospitals, Germany

**Fellowship:** Thoracic Surgery: Cleveland Clinic and University Hospitals, Cleveland

**Research Fellowship:** Vanderbilt University, Nashville, TN, University of Maryland, Baltimore, MD,

**PhD:** University of Erlangen, Germany

## Transplant and Hepatobiliary Surgery

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### James A. Schulak, MD

#### Division Chief

Adult and Pediatric Renal, Hepatic and Pancreas Transplantations, Vascular Access Surgery, Hepatobiliary, Pancreatic, Endocrine and General Surgery

**Medical School:** University of Chicago Medical School

**Residency:** University of Chicago Hospital

**Fellowship:** University of Chicago Hospital



### Juan R. Sanabria, MD

General Surgery, Hepatobiliary Surgery, Kidney, Pancreas and Liver Transplantation

**Medical School:** College Mayor de Nuestro, Senora del Rosario

**Residency:** Toronto General Hospital; University of Toronto Hospital

**Fellowship:** Toronto General Hospital; University of Toronto Hospital



**Edmund Sanchez, MD**

Liver, Kidney, and Pancreas Transplantation, Hepatobiliary and General Surgery, Immunosuppression Management/Research

**Medical School:** Wayne State University School of Medicine, Detroit, Michigan

**Residency:** Wayne State University School of Medicine, Detroit, Michigan

**Fellowship:** Abdominal Transplant Fellow Baylor University Medical Center, Dallas, Texas



**Christopher T. Siegel, MD, PhD**

Adult and Pediatric Kidney, Liver and Pancreas Transplantation, Vascular Access Surgery, Hepatobiliary and General Surgery

**Medical School:** Jefferson Medical College of Thomas Jefferson University

**Residency:** University of Chicago Medical Center

**Fellowship:** University of Chicago Medical Center



**Kenneth Woodside, MD**

Liver, Kidney, and Pancreas Transplantation, Vascular Access Surgery, Hepatobiliary and General Surgery

**Medical School:** Doctor of Medicine with Distinction in Research University of Michigan Medical School, Ann Arbor, Michigan

**Residency:** University of Texas Medical Branch at Galveston, Galveston, Texas

**Fellowship:** Department of Surgery University of Michigan, Ann Arbor, Michigan

Vascular Surgery and Endovascular Therapy



**Vikram S. Kashyap, MD, FACS**

Chief, Division of Vascular Surgery and Endovascular Therapy

Co-Director, Harrington Heart & Vascular Institute

Vascular Surgery, Endovascular Therapy

**Medical School:** Jefferson Medical College

**Residency:** Massachusetts General Hospital

**Fellowship:** UCLA



**Jerry Goldstone, MD, FACS, FRCSE (hon.)**

Emeritus Chief, Vascular Surgery and Endovascular Therapy

Carotid Diseases, Aortic Aneurysms and Peripheral Vascular Disease

**Medical School:** Oregon Health Sciences University School of Medicine

**Residency:** University of California, San Francisco

**Fellowship:** Peter Bent Brigham Hospital



**Henry Baele, MD, FACS**

Vascular Surgery and Endovascular Therapy

Aortic Aneurysm, Aortic, Peripheral and Renal Reconstruction, Carotid Endarterectomy and Endovascular Surgery

**Medical School:** Indiana University School of Medicine

**Residency:** University Hospitals of Cleveland; Henry Ford Hospital





**Teresa Carman, MD**

**Vascular Medicine**

Medical Management of Arterial Vascular Disease, Venous Thromboembolism, Clinical Thrombophilia, Wound Care

**Medical School:** The Ohio State University School of Medicine

**Residency:** Internal Medicine, Cleveland Clinic Florida

**Fellowship:** Cleveland Clinic Florida; Cleveland Clinic, Cleveland, OH



**Howard Darvin, MD**

**Vascular Surgery**

Coronary Artery Disease, Aneurysms, Carotid Artery Disease, Peripheral Vascular Disease and Cardiovascular Medicine

**Medical School:** Howard University College of Medicine

**Residency:** Mount Sinai Medical Center, Cleveland

**Fellowship:** St. Anthony Medical Center, UCLA Medical Center



**James Persky, MD**

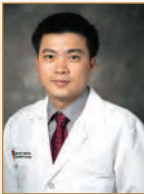
**Vascular Surgery**

Coronary Artery Disease, Cardiovascular Medicine, Carotid Artery Disease, Venous Disease

**Medical School:** Case Western Reserve University

**Residency:** University Hospitals of Cleveland

**Fellowship:** University of Cincinnati



**John Wang, MD**

**Vascular and Endovascular Therapy**

Open and Endovascular Surgery for Carotid, Aortic, Visceral and Periheral Vascular Disease; Reconstructive surgery for thoracic, infrarenal and infrainguinal aneurysmal disease; Open and endovascular venous surgery for insufficiency

**Medical School:** MB, BCh, BAO, LRCP and SI; The Royal College of Surgeons in Ireland

**Residency:** Department of Surgery, Temple University Hospital, Philadelphia

**Fellowship:** Department of Surgery, Division of Vascular Surgery, Temple University Hospital, Philadelphia



**Virginia Wong, MD**

**Vascular Surgery and Endovascular Therapy**

Peripheral Arterial Occlusive Disease, Aneurysm, Extra-Cranial Cerebrovascular Disease, Venous Disease and Endovascular Surgery

**Medical School:** SUNY at Brooklyn College of Medicine

**Residency:** University Hospitals of Cleveland

**Fellowship:** University Hospitals of Cleveland; Eastern Virginia Medical School

**Division Chief**

Adnan Cobanoglu, MD

**Surgical Staff**

Arie Blitz, MD

Robert S. Boova, MD

Carlos E. Garcia, MD, MHA

Peter C. Kouretas, MD, PhD

Alan H. Markowitz, MD

Daniel W. van Heeckeren, MD

**Section of Pediatric  
Cardiothoracic Surgery**

**Chief**

Peter C. Kouretas, MD, PhD

**Surgical Staff**

Minhaz Uddin, MD, PhD

Deborah M. West, MSN, CNS, CRNFA

The Division of Cardiac Surgery is responsible for performing all cardiac surgical procedures, including heart and lung transplantation at University Hospitals Case Medical Center (UHCMC) (formerly University Hospitals of Cleveland), and Rainbow Babies & Children's Hospital (RB&C). The Division has a long history of performing cardiac surgery, dating back to the late 1920's. Originally formed as two separate Divisions, the Division of Cardiovascular Surgery, formed in 1950 under the directorship of Dr. Claude S. Beck, and the Division of Thoracic Surgery, formed in 1955 under the leadership of Dr. Harvey Mendelsohn, combined in 1965 to form the Division of Thoracic Surgery. Dr. Jay L. Ankeney, who is responsible for successfully developing the open heart and thoracic surgery residency programs at UHCMC, joined the Division in 1955. Dr. Ankeney assumed the directorship of the Division in 1972. The Division was renamed the Division of Cardiothoracic Surgery in 1985. With the arrival of Dr. Philip Linden, again two separate divisions have been formed. In 2011, the Division of Cardiac Surgery consisted of seven full-time academic surgeons; six adult and one pediatric surgeon who provided adult and pediatric cardiac surgery at UHCMC and also at RB&C's Section of Pediatric Cardiothoracic Surgery. In the past, the Division has also provided cardiothoracic surgical services to Southwest General Health Center and currently continues services to the West side of Cleveland at St. John Medical Center.

The faculty members of the Division are active members of numerous local, regional, national and international organizations. Dr. Adnan Cobanoglu and Dr. Daniel van Heeckeren, now an Emeritus Professor, are members of the American Association for Thoracic Surgery (AATS). The AATS is a prestigious organization whose members are evaluated on specific qualifications, including their accomplishments in clinical performance, professional stature, professional conduct, leadership advancing the discipline, and contributions to surgical literature in English language, peer reviewed journals. In 2008, Dr. Cobanoglu started working on the Workforce on

International Relationships of the Society of Thoracic Surgeons and was a featured speaker at the STS International Symposium in January 2009, January 2010, and again in January 2012. In 2009, Dr. Cobanoglu was also appointed as a member of the STS/AATS Joint Workforce on Health Policy, Reform and Advocacy, which he maintains to date and which has been quite active in Washington, D.C. at a time of substantial changes taking place with the current healthcare reform. Dr. van Heeckeren has served as past president of the Academy of Medicine, Cleveland Chapter. Dr. Arie Blitz was active in a two-year post as the President of the Cleveland Chapter of the American Heart Association.

In January 2011, Dr. Robert S. Boova was recruited as a full-time cardiac surgeon to join the Division. Dr. Boova's main responsibilities are at St. John Medical Center in West Cleveland, where he is running and helping restructure the cardiac surgery program.

## STAFF/FACULTY

### Arie Blitz, MD

Dr. Blitz joined the medical staff in November 2005 as the Director of Heart Transplantation and Assist Device Surgery. Dr. Blitz received his medical degree from the Albert Einstein College of Medicine in Bronx, New York. He completed his training in thoracic surgery at UCLA Medical Center followed by fellowship training in Congenital Heart Surgery at UCLA Medical Center and an advanced fellowship in Cardiac Transplantation and Mechanical Assist Devices at the Ochsner Clinic Foundation in New Orleans, Louisiana. Dr. Blitz's focus at University Hospitals is on the rejuvenation of the Cardiac Transplant and Mechanical Assist and Device Program, including clinical research trials surrounding the latest innovations in the treatment of heart failure. He is currently past President of the American Heart Association, Cleveland Chapter. Dr. Blitz holds the rank of Assistant Professor of Surgery at Case Western Reserve University School of Medicine.



**Robert S. Boova, MD**

Dr. Boova, Clinical Associate Professor of Surgery, joined the Division of Cardiac Surgery in January 2011. A graduate of Jefferson Medical College in Philadelphia, Dr. Boova completed residencies in Surgery and Thoracic Surgery at Thomas Jefferson University Hospital in Philadelphia. With an active cardiac surgery practice in the Philadelphia area just prior to joining the Division, he was System Chief of Cardiac Surgery for the Jefferson Main Line Health Hospitals and Chief of Cardiac Surgery at Bryn Mawr Hospital in Pennsylvania. Dr. Boova expanding the Division’s cardiac surgery practice at St. John Medical Center in West Cleveland.

**Adnan Cobanoglu, MD**

Dr. Cobanoglu joined the medical staff in January 2006 as the Chief of Cardiac Surgery. Dr. Cobanoglu received his medical degree from Ankara University School of Medicine in Ankara, Turkey. He completed his training in cardiothoracic surgery at Episcopal Hospital/Temple University and Thomas Jefferson University Hospitals in Philadelphia, Pennsylvania followed by a pediatric cardiac fellowship at The Oregon Health Sciences University in Portland, Oregon. Dr. Cobanoglu was appointed as Chief of Cardiothoracic Surgery at the Oregon Health Sciences University in 1989, following Dr. Albert Starr’s tenure. He served in that position for 12 years. Just prior to his appointment to the medical staff at UHCMC in early 2006, Dr. Cobanoglu was the Director and Surgeon-in-Chief at Turkish Advanced Specialization Hospital in Ankara that housed the largest Cardiovascular Center in Turkey, with close to 4,000 major cardiac and vascular procedures each year. Dr. Cobanoglu’s focus at University Hospitals Case Medical Center has been to help enhance the growth of the cardiac program which also includes heart and lung transplantation. Dr. Cobanoglu holds the rank of Professor of Surgery at Case Western Reserve University School of Medicine, and is the Jay L. Ankeney Professor of Cardiothoracic Surgery.

**Carlos Garcia MD, MHA**

Dr. Garcia joined the Division of Cardiac Surgery in August of 2007. Dr. Garcia graduated from the University of Utah School Of Medicine in Salt Lake City and completed his residencies in General Surgery and Cardiothoracic Surgery at Oregon Health Sciences Center in Portland, Oregon. He earned a Masters of Healthcare Administration at the University of Washington in Seattle, Washington. In addition to his practice at UHCMC, he performs Cardiac and Thoracic surgery at Southwest General Hospital. Dr. Garcia’s clinical interests are off-pump coronary surgery, mitral valve repair and minimally invasive surgical techniques. He participates in the Heart and Lung Transplant Programs at University Hospitals. His administrative interests are Medical Staff Governance, Clinical Program Development and Quality Assurance. Dr. Garcia is an Assistant Professor of Surgery at Case Western Reserve University School of Medicine and Southwest General Hospital.



Not pictured: Arie Blitz, MD

**Peter C. Kouretas, MD, PhD**

Dr. Kouretas joined the Division in September 2010 to continue cardiac surgical services to children at Rainbow Babies and Children’s Hospital. He received his medical degree from Georgetown University School of Medicine followed by a doctor of philosophy degree in Cardiovascular Physiology at Georgetown University Graduate School. His residency in Surgery was at Georgetown University Medical Center and the University of Virginia at Charlottesville. He finished his thoracic residency at the University of Pennsylvania in 2002 and spent additional years in pediatric cardiothoracic surgery, cardiothoracic transplant and mechanical circulatory support in 2002-2004. Prior to his arrival in Cleveland, Dr. Kouretas was an Assistant Professor of Surgery at University of Utah School of Medicine in Salt Lake City.

**Alan Markowitz, MD**

Dr. Markowitz joined the medical staff in 1997 as the Director of Clinical Operations for the Division of Cardiothoracic Surgery. Prior to his appointment to the medical staff at UHCCM, Dr. Markowitz was the Chief of the Division of Cardiothoracic Surgery at Mt. Sinai Medical Center. Currently, Dr. Markowitz holds the position of Chief Surgical Officer for the Heart and Vascular Institute and Clinical Co-Chief of the Division of Cardiothoracic Surgery, responsible for the clinical aspects of cardiac surgery. His clinical interests include adult cardiothoracic surgery, minimally invasive valve repair and replacement

(mini-sternotomy and Heartport), stentless valves and homografts, and off-pump coronary bypass surgery. Dr. Markowitz holds the rank of Assistant Professor of Surgery at Case Western Reserve University School of Medicine.

**Daniel van Heeckeren, MD**

Dr. van Heeckeren has been a member of the medical staff since 1971 and is one of the founding members of the Division of Cardiothoracic Surgery at UHCCM. Dr. van Heeckeren received his medical degree from Harvard Medical School and completed his training in thoracic surgery at Yale New Haven Hospital in New Haven, Connecticut followed by a fellowship in thoracic surgery at Karolinska Institute in Stockholm, Sweden. In 2010, Dr. van Heeckeren received Emeritus Professor position in the Division and continues to support the Division Chief in the administrative affairs of the Division.

**RESEARCH STAFF/FACULTY**

**Steve Schomisch, PhD**

**Director of the Surgical Research and Skills Lab**

Dr. Schomisch was recruited from the Center for Anesthesia Research at the Cleveland Clinic in 1998. He received his undergraduate degree from John Carroll University and his PhD in regulatory biology at Cleveland State University.

Dr. Schomisch is responsible for all operations of the Surgical Research and Animate Skills lab, including: supervision and training of technical support staff, surgical residents and students; use of space and



**ENDOWED LECTURESHIP**

The Claude S. Beck Lectureship in Cardiac Surgery was established in 1988 by his family who wished to commemorate him and his contributions to the art and science of medicine and surgery. The 24<sup>th</sup> speaker on September 17, 2011 was Dr. William Baumgartner from Johns Hopkins University. His talk was entitled “Neurocognitive Dysfunction in Cardiac Surgery: Bench to Bedside.”

- Date:** September 17, 2011
- Name of Lecture:** Claude S. Beck Lectureship
- Guest Lecturer:** William A. Baumgartner, MD
- Credentials:** The Vincent L. Gott Professor of Cardiac Surgery, Vice Dean for Clinical Affairs, Johns Hopkins University

equipment; documentation of laboratory budget; assisting investigators with experimental design, feasibility of techniques and planning of technical aspects of projects, conducting experimental studies, preparing and managing IACUC protocols and coordinating training courses. He has authored or co-authored 30 publications in various journals, including the Annals of Thoracic Surgery and The Journal Thoracic and Cardiovascular Surgery.

### DIVISION EDUCATIONAL PROGRAM

The Division of Cardiac Surgery has been involved in the training and education of residents, fellows and nurses since the early 1960's. Many outstanding residents and fellows have graduated from this program over the last 45 years. The Division is dedicated to providing a sound, educational environment that will foster the development of residents and fellows as proficient, well-rounded surgeons.

Currently the Division offers one- and two-year clinical fellowships. The individuals entering this program must have completed the American Board of Surgery requirements or their equivalent abroad. Individuals who have already completed a residency in cardiothoracic surgery in the United States or abroad are also accepted into the program. This educational and training opportunity allows individuals to hone their skills or gain additional experience and training in these positions.

There is ample exposure to all facets of cardiac surgery in adult and pediatric patients, which provides the fellows with extensive training. The faculty closely supervises the fellows during the pre, intra, and postoperative care of the patient. As the fellows progress in the program, they are given increased responsibility based on progress in technical areas, as well as patient management and evaluation. The fellow's progress is discussed at weekly conference by the faculty. Thus, the faculty is apprised of the progress even when the fellow is not on their clinical service. Educational development involves one-on-one instruction in the operating room, patient floors or clinic, as well as formal educational presentations given by the faculty, housestaff, or invited speakers.



Conferences within the Division are weekly and are mandatory for both faculty and housestaff. Interaction between housestaff and faculty in other disciplines, especially Cardiology, Pulmonary and Critical Care Medicine, Radiology, Anesthesiology and Critical Care Medicine, and their subspecialties occurs regularly on a patient-to-patient basis and during the didactic series. Lectures and conferences from associated disciplines are included in the fellow's educational program.

Other educational activities of the Division of Cardiac Surgery include participation in the Master Affiliation Agreement between Cuyahoga Community College (Tri-C) and University Hospitals. In January 2005, the Division began accepting students enrolled in Tri-C's Physician Assistant Program. Students in their second year of training complete their clinical rotations under the supervision of the cardiothoracic surgery RN First Assistants.



Additionally, in June 2005, UHCMC and Christ Hospital School of Perfusion Science entered into an Affiliation Agreement. Students in their final year of training complete their clinical rotations under the supervision of the Perfusion Services Department at UH.

Finally, the Division faculty, Advanced Clinical Nurses and Perfusionists give CME presentations throughout the year at UH and community hospitals within the health system.

### DIVISION RESEARCH

The Fred Lennon Research Laboratory at Case Western Reserve University School of Medicine was originally endowed by the founder of the Swagelok Corporation. Now under the auspices and support of the Department of Surgery, the laboratory is a facility open to cardiothoracic faculty and residents who wish to pursue research in cardiothoracic surgery.

Animal studies have involved calves, dogs, pigs, rats and rabbits. Full anesthetic and operating room capabilities are present in the lab. Cardiac monitoring function includes conducting catheter and sonomicrometric crystal techniques. Computerized real time physiological data collection and analysis are available. Two Langendorff columns are used for in-vitro studies.

Throughout 2007, 2008, and early 2009, members of the Division were productive with the clinical start of the Heart and Lung Transplant Programs. The large animal laboratory has been utilized to train and educate nurses, perfusionists, technicians, physicians and surgeons in ventricular assist devices and transplantation procedures in large animal models. Also investigation of techniques in utilizing novel percutaneous warming/cooling catheters have been carried out in this laboratory with successful application in patients.

### CLINICAL RESEARCH PROJECTS

**Study Name:** JARVIK HEART  
**PI:** Arie Blitz, MD  
**AI:** Adnan Cobanoglu, MD  
**Synopsis:** Jarvik 2000 Heart Assist System being investigated in bridge to transplant  
**Sponsor:** Jarvik Heart

**Study Name:** FSRegistry  
**PI:** Alan Markowitz, MD  
**Synopsis:** This is a registry of patients with Freestyle valves. There is a retrospective as well as prospective arm to this trial.

**Study Name:** Intermacs  
**PI:** Arie Blitz, MD  
**Synopsis:** Registry for destination therapy/bridge to transplant  
**Sponsor:** NHLBI

**Study Name:** ABLATE Trial  
**Co-I's:** Alan Markowitz, MD, Adnan Cobanoglu, MD  
**Synopsis:** AtriCure Synergy Bipolar RF Energy Lesions for Permanent Atrial Fibrillation Treatment during Concomitant On-Pump Endo/Epicardial Cardiac Surgery  
**Sponsor:** AtriCure, Inc.

**Study Name:** The Use of a Novel Rewarming Catheter as a Protection Against Hypothermia  
**PI:** Arie Blitz, MD  
**Sponsor:** Alsius Corporation

**Study Name:** Fast Fourier Transform analysis  
**PI:** Arie Blitz, MD  
**Synopsis:** Fast Fourier Transform analysis of body surface electrograms and epicardial atrial electrograms of postoperative atrial fibrillation

**Study Name:** CoreValve Multicenter Clinical Trial  
**Co-PI:** Alan H. Markowitz, MD, Robert S. Boova, MD  
**Synopsis:** Percutaneous implantation of the CoreValve in high risk or non-candidates with aortic stenosis  
**Sponsor:** Medtronic Corporation

**Study Name:** The BRIDGE trial  
**Co-Investigator:** Adnan Cobanoglu, M.D.  
**Synopsis:** Maintenance of platelet inhibition with Cangrelor after discontinuation of thienopyridines in patients undergoing surgery  
**Sponsor:** The Medicines Company

**Study Name:** EXCEL trial  
**Co-PI:** Adnan Cobanoglu, M.D.  
**Synopsis:** Left Main Coronary Artery Revascularization, PCI vs. Surgery  
**Sponsor:** Abbott Vascular, Inc.

**Study Name:** Improving Oxygen Delivery During Extra-Corporeal Membrane Oxygenation  
**PI:** Peter C. Kouretas, MD, Ph.D.  
**Sponsor:** Rainbow Surgical Specialists Grant



**LABORATORY RESEARCH**

**Dr. Blitz**

- Mechanisms of Infection of Artificial Surfaces (NIH grant)
- Use of a rewarming catheter for complex cardiac surgery
- Use of the Impella VAD as a right ventricular assist device
- The Effect of NM 4095 in pigs undergoing cardiopulmonary bypass and myocardial infarction

**Dr. Cobanoglu**

- Orthotopic Mouse Lung Transplantation: A Method to Study Lung Transplant Biology; Vascularized Lung Transplant

**Dr. Garcia**

- Orthotopic Mouse Lung Transplantation: A Method to Study Lung Transplant Biology; Vascularized Lung Transplant

## PUBLICATIONS

### Dr. Blitz

- Kamouh A, Osman MN, Rosenthal N, Blitz A: "Erosion of an Amplatzer Septal Occluder Device into the Aortic Root." *Annals of Thoracic Surgery*, 2011, 91:1608-10.
- Tran AH, Kiamenesh F, Maga JM, Blitz A, Salgado CJ: "Use of an Intravascular Warming Catheter to Maintain Normothermia during Flap Reconstruction of the Sternum." *J Clin Anesthesia*, 2012, In Press.

### Dr. Cobanoglu

- Mungan U, Cicekcioglu F, Parlar AI, Babaroglu S, Yay K, Tutun U, Ulus AT, Aksoyek A, Katircioglu SF, Cobanoglu A: Conventional versus Beating Heart Valve Surgery Technique in Reoperations, Submitted to *Journal of Thoracic and Cardiovascular Surgery*.
- Garcia CE, Graber R, Fitzmaurice M, Cobanoglu A: Lipomatous Hamartoma of the Aortic Valve, *Tex Heart Inst J*, in press.
- Bardakci H, Kervan U, Akdogan M, Kucuker A, Arka K, Birincioglu L, Cobanoglu A: Utilization of the Gott Shunt in the Treatment of Descending Thoracic Aortic Aneurysm in a Patient with Chronic Active Hepatitis, in press.

### Dr. Garcia

- Garcia CE, Graber R, Fitzmaurice M, Cobanoglu A: Lipomatous Hamartoma of the Aortic Valve, *Tex Heart Inst J*, in press.

### Dr. Kouretas

- Flores S, Strainic J, Ashwath R, Kouretas PC: "Fetal Diagnosis of Superior Vena Cava Aneurysm," *Pediatric Cardiology*, In Preparation, 2012.
- Kouretas PC, Pandya K, Ashwath R, Strainic J, Al-Khatib Y: "Repair of Coronary Sinus Ostial Atresia and Total Anomalous Pulmonary Venous Connection" *World Journal for Pediatric & Congenital Heart Surgery*, In Preparation 2012.

### Dr. Markowitz

- Liu, N, Gilkeson R, Markowitz A, Schröder C. Thoracoscopic removal of a suture needle from the posterior pericardium after coronary artery bypass grafting. *Interactive CardioVascular Thoracic Surgery* 2011;13:341-343.
- Schröder C, Leukhardt W, Hsiao E, Farah M, Markowitz A. Trans-aortic video assisted resection of a recurrent left ventricular myxoma. *Annals of Thoracic Surgery* 2012, in press.

## PRESENTATIONS

### Dr. Blitz

- Use of the RVAD for RV failure. 29<sup>th</sup> Annual Update in Anesthesiology, Surgery, and Perioperative Medicine. St. Martin, French West Indies. January 2011. <http://www.clinicalupdateinanesesthesiology.org/brochure.pdf>
- Program Participant, Invited Lecturer. Four invited lectures on Mechanical Circulatory Support at the New Orleans Conference: Practices in Cardiac Surgery. New Orleans, June 2011.

Transfusion Trigger Debate

American vs. Canadian Healthcare System Debate

Strategic Planning for a Successful Business

Moderator and Judge of Adjudicated Poster Competition

[www.theneworleansconference.com/confnola09/index.php](http://www.theneworleansconference.com/confnola09/index.php)



- Program Participant, Invited Lecturer. Cardiology for the Primary Care Practitioner. 14 CME Hours of Invited Lectures. July 2011.  
Topics: Medical, Interventional, and Surgical Treatment of Coronary Artery Disease  
Valvular Heart Disease  
Medical and Surgical Management of Advanced Heart Failure  
Endocarditis  
Pulmonary Hypertension  
Therapeutic Hypothermia  
Cardiac Arrhythmias  
Cardiovascular Emergencies  
Thoracic Aortic Emergencies  
[www.continuingeducation.net/coursedetails.php?program\\_number=840](http://www.continuingeducation.net/coursedetails.php?program_number=840)
- Percutaneous VAD Therapy. Instructor/Proctor. Abiomed Training. Good Samaritan Hospital, Cincinnati, OH. March 2011.
- Acquired Heart Disease. Audience: 4<sup>th</sup> year Case Medical Students. 3/15/11.
- Ventricular Assist Devices: Advanced Nurse Practitioner Conference. 3/30/11.
- Moderator, Abstract & Poster Competition at The New Orleans Conference: Practices in Cardiac Surgery, June 2011.
- Destination Therapy. Grand Rounds. St. John Medical Center, Westlake, OH. October 2011.
- Mechanical Circulatory Support. Grand Rounds. The Duluth Clinic, Duluth, MN. December 2011.

### Dr. Cobanoglu

- Program Participant, Harrington-McLaughlin Heart and Vascular Institute, 5<sup>th</sup> Annual Cardiovascular Disease Update, Landerhaven Grand Ball Room, Mayfield Hts, Ohio, October 19, 2010.
- Update on Cardiac Surgery Outcomes and STS Database. Quality and Patient Safety Council Meeting, Bolwell A Conference Room, University Hospitals Case Medical Center, Cleveland, Ohio, November 23, 2010.
- Pearls in Surgical Aspects of Heart and Lung Transplantation. The Society of Thoracic Surgeons, 47<sup>th</sup> Annual Meeting, International Reception and Symposium: Thoracic Organ Transplantation. Marina D Conference Hall, San Diego Marriott Hotel and Marina, San Diego, California, January 31, 2011.
- Moderator, Heart Dissection Course for Advanced Cardiac Sonographers. Echocardiography Suites, Mather Building, University Hospitals Case Medical Center, Cleveland, Ohio, May 21, 2011.
- Radical Aortic Root Enlargement. Heart Dissection Course for Advanced Cardiac Sonographers. Echocardiography Suites, Mather Building, University Hospitals Case Medical Center, Cleveland, Ohio, May 21, 2011.
- Resection of Left Atrial Myxoma. Heart Dissection Course for Advanced Cardiac Sonographers. Echocardiography Suites, Mather Building, University Hospitals Case Medical Center, Cleveland, Ohio, May 21, 2011.
- Repair of Truncus Arteriosus with Interrupted Aortic Arch. Combined Thoracotomy and Sternotomy Approach. Heart Dissection Course for Advanced Cardiac Sonographers. Echocardiography Suites, Mather Building, University Hospitals Case Medical Center, Cleveland, Ohio, May 21, 2011.
- Ross (Pulmonary Autograft) Procedure. Heart Dissection Course for Advanced Cardiac Sonographers. Echocardiography Suites, Mather Building, University Hospitals Case Medical Center, Cleveland, Ohio, May 21, 2011.
- Thoracic Organ Transplantation; Donor Selection and Surgical Technique. Critical Care Lecture Series, Division of Pulmonary/Critical Care and Sleep Medicine. Wearn 618 Conference Room, University Hospitals Case Medical Center, Cleveland, Ohio, June 16, 2011.

- Surgery for Infective Endocarditis. Review of 2 Recent Cases of Aortic Valve Endocarditis and Surgical Treatment. Department of Medicine Morbidity and Mortality Conference. Lakeside Hospital, Kulas Auditorium, University Hospitals Case Medical Center, Cleveland, Ohio, July 22, 2011.
- Aortic Valve Replacement with Posterior Aortic Root Enlargement. Department of Medicine Mortality and Morbidity Conference. Lakeside Hospital, Kulas Auditorium, University Hospitals Case Medical Center, Cleveland, Ohio, July 22, 2011.
- A Potpourri of Interesting Cases in Cardiac Surgery. Conference Room B, St. John Medical Center, Westlake, Ohio, October 11, 2011.
- Heart Anatomy and Dissection Course for Advanced Cardiac Sonographers. Echocardiography Suites, Mather Building, University Hospitals Case Medical Center, Cleveland, Ohio, November 19, 2011.
- Management of the Small Aortic Root. Society of Thoracic Surgeons International Symposium on Management of Adult Patients with Congenital Heart Disease. The Society of Thoracic Surgeons 48<sup>th</sup> Annual Meeting, The Convention Center, Room 220, Fort Lauderdale, Florida, January 28-February 1, 2012.

**Dr. Kouretas**

- “Cardiac ECMO: State of the Art 2011,” Annual ECMO Symposium Rainbow Babies & Children’s Hospital, January 31, 2011.
- “Overview of Cardiac Surgical Procedures in Neonates and Infants,” Neonatal Intensive Care Unit Grand Rounds Rainbow Babies & Children’s Hospital, February 25, 2011.
- “Congenital Cardiac Anatomy,” Surgical Anatomy Course, Case Western Reserve School of Medicine, March 16, 2011.
- “Repair of Coronary Sinus Ostial Atresia and Total Anomalous Pulmonary Venous Connection.” Congenital Heart Surgeons Society Annual Meeting, October 23, 2011.
- “Management of Aortic Aneurysm in Congenital Heart Disease,” Pediatric Grand Rounds Rainbow Babies & Children’s Hospital, February 23, 2012.
- “Congenital Cardiac Anatomy,” Surgical Anatomy Course, Case Western Reserve School of Medicine, March 22, 2012.

**Dr. Markowitz**

- Schröder C, Leukhardt W, Hsiao E, Farah M, Markowitz A. Novel Trans-Aortic Video Assisted Resection of a Recurrent Left Ventricular Myxoma. The Society of Thoracic Surgeons 48<sup>th</sup> Annual Meeting, Fort Lauderdale, Florida, February, 2012.
- Rothermel L, Leukhardt W, Gilkeson R, Markowitz A, Schröder C. Thoracoscopic resection of a giant teratoma compressing the right heart. International Society for Minimally Invasive Cardiothoracic Surgery Annual Meeting, Los Angeles, CA, June, 2012.



## PATIENT CARE WITHIN THE DIVISION

Surgical services provided by the Division of Cardiac Surgery include routine and advanced cardiac surgical procedures including primary and re-operative cardiac revascularization, valve replacement and repair, maze procedure, thoracic aortic and great vessel surgery, adult and pediatric congenital heart operations, heart failure surgery with assist devices, minimally invasive procedures, and lung and heart transplantation procedures.

During the Intensive Care Unit phase, the Division continues to work as a team in collaboration with the Critical Care team, which is a division of the Department of Anesthesiology. During the day, the Critical Care team, attending and residents assisted by a nurse practitioner oversee the daily management of the patient while keeping the attending surgeon informed and involved. During the evenings, bedside management is the responsibility of the resident or fellow under the supervision of the attending surgeon and intensive care anesthesiologist.

The attending surgeon, fellow and nurse practitioner conduct rounds every morning to establish a plan of care for the patients on the cardiothoracic service. The nurse practitioners work collaboratively with the cardiothoracic surgeons to facilitate movement of their patients through the University Hospitals system. They serve as liaisons between physicians, hospital personnel and patients to provide continuity of care through an interdisciplinary approach. They help educate the patients about their surgery pre- and post-operatively, as well as assist in the out patient clinic.

Continuous Quality Improvement and Morbidity/Mortality meetings are held weekly to review surgical complications and unique or significant cases are discussed in an educational atmosphere. Formal presentations are made. The Division has consistently attained a 3-star (highest) rating by the Society of Thoracic Surgeons Registry in the last few years for its clinical services and outcomes.

## DIVISION GOALS

The last three years were exciting with the development and growth of the Heart and Vascular Institute, reinitiation of the lung and heart transplant programs, and a gradual increase in the number of patients seen and treated within the Division. In 2011, the Division continued these efforts and worked collectively to enhance marketing efforts to increase the referral base with community physicians and other outside sources.

The goals of the Division are multifaceted, involving all areas of clinical service, education, research and community service. The recruitment of additional full-time cardiology faculty and cardiac surgeons over the past years helped serve as an extension of both cardiac and surgical services out to the community in a more comprehensive manner. In environments of intense competition and declining surgical caseloads, the Division's workload has held steady and actually has increased compared to earlier years in 2008 and 2009. This increase has had a beneficial effect on clinical research and the educational programs. In 2006 through 2009, the Division showed a strong presence in Cardiac and Thoracic Surgery at Southwest General Health Center and in early 2010 moved its West Cleveland operations to St. John Medical Center where efforts to expand that program continue. In early 2011, UH Ahuja Medical Center, a new hospital in the University Health System, started operations. The Division of Cardiac Surgery maintains offices there with an increasing number of cardiothoracic procedures. The future plans are to help maintain and strengthen all these programs and initiate new ones, based on the University Health System's strategic plans in other affiliates and new facilities in the coming years.

The faculty members of the Division strive to provide the highest quality cardiac surgery services and patient-centered, personalized care while making the advanced expertise and cutting-edge technologies available to all our patients, the communities and hospitals affiliated with the system.

## Section of Pediatric Cardiothoracic Surgery

The Section of Pediatric Cardiothoracic Surgery is responsible for performing and/or coordinating all cardiac surgical procedures on patients with congenital heart disease. This includes all pediatric patients being operated on at Rainbow Babies and Children's Hospital (RB&C) and adults with congenital heart disease receiving surgery at University Hospitals Case Medical Center (UHCMC).

### FACULTY

#### **Peter C. Kouretas, MD, PhD**

Dr. Kouretas was recruited in 2010 from Primary Children's Medical Center at The University of Utah, where he served as Director of Pediatric Mechanical Circulatory Support and Assistant Professor of Surgery. Dr. Kouretas completed his general surgery residency at the University of Virginia in 2000. He completed his thoracic training at The University of Pennsylvania in 2002. His training in pediatric cardiac and congenital surgery, as well as cardiopulmonary transplantation, was completed at Stanford University in 2004. He is board certified in both surgery and thoracic surgery. Dr. Kouretas received his PhD in circulatory physiology from Georgetown University in 1997. He is a member of The Society of Thoracic Surgeons, The Western Thoracic Surgical Association, The Southern Thoracic Surgical Association and The International Society of Heart and Lung Transplantation. Dr. Kouretas' clinical interests include complex neonatal cardiac surgery and adult congenital heart surgery, as well as mechanical circulatory support and cardiac transplantation. He is well recognized for his leadership and professionalism in the field of cardiac surgery. Since arriving at Rainbow Babies and Children's Hospital, Dr. Kouretas has created a collaborative multidisciplinary team approach to congenital heart disease that has included pediatric intensive care, cardiology, perfusion, cardiac anesthesiology and nursing. Overall surgical outcomes have been outstanding for a highly complex group of patients, and the entire team has achieved measurable resonance as a high performing team.

#### **Minhaz Uddin, MD, PhD**

Dr. Uddin is a clinical fellow from Bangladesh who has been functioning as a member of the pediatric cardiac team since August 2005. Prior to coming to RB&C, he was an assistant registrar in cardiovascular surgery at the Institute of Cardiovascular Diseases in Bangladesh (1979-1982) and a resident in cardiovascular surgery at the National Cardiovascular Center in Osaka, Japan, from 1982-1983. He returned to Bangladesh and was a registrar in cardiovascular surgery from 1983-1984. He then moved to Saudi Arabia, where he continued his training in cardiothoracic surgery at King Fahad Hospital from 1984-1990. In 1991, he moved to Saitama, Japan where he spent a year doing postgraduate training in cardiothoracic surgery. He continued this postgraduate training from 1992-1997 at Tokai University School of Medicine in Japan. Dr. Uddin moved to the U.S. in 1997 to UCSF where he worked as a research scholar. In 2003, he became a clinical fellow at Providence St. Vincent Medical Center in Portland, Oregon, where he worked on the cardiothoracic surgery service with Dr. Albert Starr until moving to Cleveland in 2005. He has numerous publications and book chapters. Dr. Uddin is particularly interested in postoperative management of patients following congenital heart surgery.

#### **Deborah M. West, MSN, CNS, CRNFA**

Deborah M. West returned to join the Pediatric Cardiothoracic surgery team at the Rainbow Pediatric Heart Center in 2011. She previously held positions at UH in pediatric and adult cardiac and thoracic surgery and has experience with cardiac surgery programs throughout the Cleveland area, most recently, at the Louis B. Stokes Cleveland VA Medical Center. As a Certified Registered Nurse First Assistant (CRNFA) and Clinical Nurse Specialist (CNS) in Cardiothoracic Surgery, Ms. West brings her extensive experience assisting with open heart procedures to the cardiac surgery team at Rainbow. Her responsibilities include assisting at surgery for congenital heart repairs and the evaluation and management of patients before and after their surgery. She has maintained her special interest



in pediatric cardiac surgery and is happy to be back "Under the Rainbow". Additional interests include neonatal surgery, the use of databases for quality improvement in surgical care, family participation in recovery from surgery, and nutrition and lifestyle choices related to adult congenital heart disease

## OVERVIEW

The Section of Pediatric Cardiothoracic Surgery provides state-of-the-art, family-centered and comprehensive care for patients of all ages with congenital heart, lung or vascular disease. Clinical care is provided at RB&C with the following services: a dedicated pediatric cardiothoracic surgery operating room and specialized pediatric cardiopulmonary bypass and support equipment, a dedicated 4-bed Cardiac Intensive Care Unit within the confines of the Pediatric Intensive Care Unit, along with access to the Neonatal Intensive Care Unit and regular and step-down care units. The Section provides 24/7 comprehensive perioperative care and is supported by a multidisciplinary team that includes pediatric cardiologists, neonatologists, intensivists, anesthesiologists, and other sub-

specialists as patient care needs dictate. In addition, a full range of professional support services is available that includes child life specialists, respiratory therapists, critical care and step-down cardiac nurses, social workers and other services as patient family needs dictate. The Section has active ongoing research efforts, including studies investigating the effect of neonatal cardiopulmonary bypass on endothelial function, specifically focusing on the effect of blood priming on nitric oxide biology and its effect on circulatory physiology.

## EDUCATIONAL PROGRAMS

Dr. Kouretas has implemented several educational initiatives for the pediatric cardiothoracic team, including quality improvement meetings, didactic lectures for the cardiac and intensive care fellows, nurse practitioners, and nursing teams. Furthermore, novel programs have been implemented to specifically focus on family education and satisfaction. Dr. Kouretas also works with the Case Western Reserve University School of Medicine, lecturing on anatomy and congenital heart disease.

**Division Chief**

Conor Delaney, MD, MCh, PhD

**Surgical Staff**

Bradley Champagne, MD  
Jeremy Lipman, MD  
Eric Marderstein, MD, MPH  
Harry Reynolds, MD  
Sharon L. Stein, MD  
Sadaf Khan, MD

**Colorectal Fellows**

Joanne Favuzza, DO  
Skandan Shanmugan, MD

**Research Fellows**

Hoda Samia, MD  
Justin Lawrence, MD  
Deborah Keller, MD  
Arne Wibe, MD

**Advisor, Surgical Analytics**

Johnie Rose, MD, PhD

**Surgical Skills Trainer**

Sadaf Khan, MD

**Nurse Practitioners**

Karen Brady, NP  
Pat Cigetich, NP  
Mary Kasavich, NP  
Melissa Snow, APN  
Donya Woconish, NP

**Fellowship Program Director**

Brad Champagne, MD



**COLORECTAL STAFF/FACULTY**

**Conor Delaney, MD, MCh, PhD**

Dr. Delaney gained his medical degree in University College Dublin, Ireland, and earned his Master of Surgery and Doctor of Philosophy in Surgery degrees from the University of Pittsburgh School of Medicine and University College Dublin Medical School. He completed surgical training with the Royal College of Surgeons in Ireland, and a post-accreditation training position in the Department of Colorectal Surgery at the Cleveland Clinic. He serves as Chief of the Division of Colorectal Surgery, Vice-Chair of the Department of Surgery, and Professor of Surgery at Case Western Reserve University School of Medicine. He also holds the position of Director of the Institute for Surgery and Innovation and is the Jeffrey L. Ponsky, MD Professorship of Surgical Education. He is a past-President of the International Society for Laparoscopic Colorectal Surgery. Dr. Delaney is on the editorial board of Diseases of the Colon and Rectum, World Journal of Gastroenterology, World Journal of Surgery, Colorectal Disease and the Polish Journal of Surgery, and serves as a reviewer to many journals. He travels to teach colorectal surgery nationally and internationally. He has edited two books, published more than 200 chapters and papers, and has given more than 200

invited lectures. His primary clinical interests include laparoscopic colorectal surgery, colorectal cancer, inflammatory bowel disease, diverticular disease, colonoscopy and re-operative abdominal surgery.

**Bradley J. Champagne, MD, FACS, FASCRS**

Dr. Champagne obtained his Bachelors in Science from the University of Scranton, and his medical degree from Upstate Medical College at Syracuse, New York. He undertook his General Surgery Residency at Albany Medical College, and then did a Colorectal fellowship at the Georgia Colon and Rectal Surgery Clinic in Atlanta, Georgia. He received certification by the American Board of Surgery and American Board of Colon & Rectal Surgery, and was appointed to this Division in August 2006 and this past year was promoted to Associate Professor. He is a fellow of both the American College of Surgeons and American Society of Colon and Rectal Surgeons. This past year, he was the Course Chair for the SAGES laparoscopic colectomy workshop for general surgery residents. Furthermore, he was the Course Director of the Second Annual Career Development Course for ACGME colorectal residents. He has keen interest in teaching and his research focus is on training methods for laparoscopic colectomy and outcomes. He has served as faculty





and director on numerous laparoscopic colon courses for general surgeons and residents at Case Medical Center. He is the principal investigator on several projects in the Division, and is the Program Director for the ACGME Colorectal Residency. He is a reviewer for Diseases of the Colon and Rectum, Annals of Surgery and multiple other journals. He is currently Chair of the Young Surgeon's Committee of ASCRS and Surgical Director of the Community Gastroenterology and Quality Center for the Digestive Health Institute. Dr. Champagne has given several invited lectures nationally and internationally. This past November, he was Course Director for the first Laparoscopic Colectomy Workshop in Lima, Peru. His clinical interests include laparoscopic colorectal surgery, colorectal cancer, inflammatory bowel disease, diverticular disease and benign anorectal disease.

Dr. Champagne is also Program Director in Colorectal Surgery. The Program has recently been approved by the American Board of Colorectal Surgery as a formal Colorectal Surgical Fellowship Program. The current Fellow is Dr. Joanne Favuzza, who is our seventh Fellow, and second Board-eligible Fellow. The Fellow for the 2012-2013 year will be Dr. Skandan Shanmugan.



**Sadaf Khan, MD, BS**

Dr. Khan received her medical degree from the Aga Khan University, Pakistan. She completed her General Surgery residency and Colon and Rectal Surgery fellowship at Henry Ford Hospital,

Detroit, Michigan. She is certified by the American Board of Surgery and American Board of Colon and Rectal Surgery. She joined Henry Ford as Senior staff before joining the Aga Khan University as Assistant Professor, Surgery. While there, she obtained a Diploma in Health Professions Education, and was involved in curricular development with specific interest in techniques and implementation of assessment strategies. She is currently a

Visiting Faculty at the Aga Khan University. She joined the Division in March 2011 as Director of Surgical Skills Training at the Institute for Surgery and Innovation. Her area of interest is education and education research, especially assessment, and curriculum development. Her primary clinical interests include colorectal cancer, re-operative surgery, colonoscopy and benign anorectal disease.

**Eric Marderstein, MD, MPH**

Dr. Marderstein obtained his basic science degree in Biophysics with Honors from Brown University in Providence, Rhode Island and his medical degree from University of Virginia School of Medicine in Charlottesville, Virginia. He undertook General Surgery Residency at the University of Pittsburgh Medical Center in Pittsburgh, Pennsylvania. During his general surgery residency he was granted a Master's Degree in Public Health from the University of Pittsburgh. He then did a Colorectal fellowship at the Cleveland Clinic in Cleveland, Ohio. Dr. Marderstein is certified by both the American Board of Surgery and the American Board of Colon and Rectal Surgery. He was appointed Assistant Professor of Surgery within the Division in July 2007. His clinical interests include laparoscopic approaches to colorectal disease, colorectal cancer, inflammatory bowel disease and complex reoperative abdominal surgery. His research interests include the new and growing field of Patient Safety. In May 2010, Dr. Marderstein was appointed Director of Colorectal Surgery Services at the Louis B. Stokes Cleveland VA Medical Center.

**Harry Reynolds, MD**

Dr. Harry Reynolds graduated with a degree in Bioengineering from Syracuse University as a University Scholar. He subsequently completed medical school at Case Western Reserve University with a scholarship from the United States Air Force and finished his residency in General Surgery at University Hospitals of Cleveland. He then served as the Chief of Surgical Services and as a Flight Surgeon at the 22nd Medical Group, McConnell Air Force Base, Kansas. He completed his Colorectal Fellowship training in 1996 at the Cleveland Clinic

Foundation. He was appointed as an Assistant Professor of Surgery at Case Western Reserve University in 1997 and subsequently served as the Director of Colorectal Surgery at University Hospitals through June of 2005. He continues his service in the Air Force as the Chief of Aerospace Medicine at the 180th Medical Group, Toledo, Ohio. He has served in support of Operation Enduring Freedom and Iraqi Freedom and received the Humanitarian Service Medal for his participation in the Hurricane Katrina relief effort. He worked as a Surgeon and Flight Surgeon at the 332nd Air Expeditionary Medical Group, Balad Air Base, Iraq in 2007. He served in support of Operation Iraqi Freedom, and provided Space Shuttle Mission Support at Moron Air Base Spain this past spring. He was deployed to Kyrgyzstan and Afghanistan in support of Operation Enduring Freedom in October and November 2009. He has given multiple invited presentations and authored or coauthored numerous abstracts and papers. His special interests include the multidisciplinary management of colon and rectal cancer, surgical treatment of inflammatory bowel disease, anorectal diseases, and laparoscopic approaches to colorectal pathology. He now serves as the Director of Colorectal Cancer Surgery at University Hospitals Case Medical Center.

**Sharon L. Stein, MD, FACS**

Dr. Stein obtained a Bachelors of Arts with distinction from the University of Michigan in Ann Arbor, Michigan and a medical degree at University of Colorado Health Science Center in Denver, Colorado. She completed her General Surgery Residency at Massachusetts General Hospital in Boston, Massachusetts and her Colon and Rectal Surgery fellowship at New York Presbyterian Hospitals of Cornell and Columbia. After completing her fellowship, Dr. Stein worked as a surgeon for Doctors without Borders (Medecins sans Frontiers) in Southern Sudan and more recently in Haiti following the earthquake in 2010. She then joined the faculty of New York Presbyterian Hospital - Cornell Medical Center as an Assistant Professor in Surgery in 2008. She is board certified by American Board of Surgery and American Board of Colon and Rectal Surgery. She joined the faculty in Colon and Rectal Surgery in August 2009. Dr. Stein has special interests in complex Crohn's disease, enterocutaneous fistulas and re-operative surgery and serves as the Director of the Case Acute Intestinal Failure Unit and Re-operative Abdominal Surgical Center and Surgical Director of the Inflammatory Bowel Disease Center. She is also working on researching the causes of infertility



following pelvic surgery for patients with ulcerative colitis. In addition to clinical responsibilities, Dr. Stein is currently pursuing a Masters in Clinical Research as part of the Case Clinical Research Scholars Program. She is a reviewer for Selected Abstracts of the Diseases of the Colon and Rectum. She is a member of multiple committees including chairperson for the Young Surgeons Committee of the American Society of Colon and Rectal Surgery. She currently serves as Associate Program Director for Case Surgery Residency Program.

### **Jeremy Lipman, MD**

Dr. Lipman earned his Bachelor of Arts degree from Boston College and his medical degree from Drexel University College of Medicine in Philadelphia, Pennsylvania. He completed General Surgery Residency at Case Western Reserve University and did a Colorectal fellowship at the Cleveland Clinic Foundation where he received the outstanding clinical fellow award. He is board certified by the American Board of Surgery. Dr. Lipman joined the staff of MetroHealth Medical Center in July, 2010 and is an Assistant Professor of Surgery at Case Western Reserve University's School of Medicine. He oversees the educational program of general surgery residents at MetroHealth Medical Center. He has published many peer-reviewed articles and presented his work at several national meetings. He serves as a reviewer for Annals of Surgery. His clinical interests include laparoscopic colorectal surgery, colorectal cancer, inflammatory bowel disease, diverticular disease, colonoscopy, re-operative abdominal surgery and benign anorectal disease.

### **COLORECTAL FELLOWSHIP**

#### **Joanne Favuzza, DO**

Dr. Joanne Favuzza is currently a Chief Resident in Surgery at Berkshire Medical Center in Massachusetts. She will be pursuing a Colorectal Residency in July 2011 at University Hospitals Case Medical Center in Cleveland, Ohio. She received her medical degree from the University of New England College of Osteopathic Medicine in June 2005. Prior to this she received a Master

of Arts in Graduate Medical Sciences at Boston University in May 2000 and an undergraduate degree at Boston University in May 1997.

### **Skandan Shanmugan, MD**

Dr. Shanmugan obtained his Bachelor of Arts in History and International Relations from Swarthmore College and a Post-baccalaureate degree in Special Sciences from the University of Pennsylvania. He then obtained his medical degree from Temple University School of Medicine, where he continued his General Surgery Residency. He will pursue a Colorectal Fellowship at Case Medical Center in July 2012. His clinical interests include laparoscopic colorectal surgery, re-operative colorectal surgery and rectal cancer. He has published several peer-reviewed articles and has recently presented at the Society of Surgical Oncology and the American College of Surgeons in 2011.

### **RESEARCH STAFF**

#### **Arne Wibe, MD, PhD**

Dr. Wibe attended medical school at the University of Oslo, Norway and got his medical degree in 1980. He finished his specialisation in general surgery at St. Olavs Hospital, University Hospital of Trondheim, in 1991 and has been a consultant surgeon there since 1996, when he also obtained his European Board of Gastrointestinal Surgery. In 1997 he became the project manager of the Norwegian Rectal Cancer Project and in 1998 got a scholarship as research fellow from the Norwegian Cancer Society. He finished his PhD thesis in 2003, entitled Rectal Cancer in Norway – Standardisation of Surgery and Quality Assurance leading to a post doctoral scholarship from the Norwegian Cancer Society in 2004. He became Professor of Surgery at the Norwegian University of Science and Technology in 2007.

His principal scientific field is colorectal cancer. Since 2005 he has been supervising six PhD thesis and three master degrees. During the last ten years he has given 139 national and 121 international lectures. He is a member of ten national/international societies and a board



member of the Norwegian Gastrointestinal Cancer Group, of the Norwegian Colorectal Cancer Group, and of the European Society of Coloproctology. He is also member of the Advisory editorial board of Colorectal Disease and of the editorial board of the International Scholarly Research Network. He has been chair of the Norwegian Oncological Forum, and since 2000 he has organized 21 national postgraduate courses in colorectal surgery.

During the last five years, Dr. Wibe has given eight multidisciplinary postgraduate courses for the Spanish Association of Surgeons in order to improve standards of care of rectal cancer in Spain. These courses have included 16 live demonstrations procedures. He has also been involved in the development of rectal cancer audits/projects in Denmark, Belgium, Netherlands, and in Lithuania. He had the best paper at the congress of the Norwegian Association of Surgeons in 2003 and the impact paper of the year in Diseases of Colon & Rectum in 2005.

### **Deborah Keller, MD**

Dr. Keller obtained a Bachelors of Science and Arts degree in Fine Art and Biological Sciences, and a Master's Degree in Healthcare Policy and Management from Carnegie Mellon University in Pittsburgh, Pennsylvania. Following graduate school, she worked as a business analyst for American Management Systems, specializing in Healthcare Management consulting. She returned to school, earning a medical degree at UMDNJ-New Jersey Medical School in Newark, New Jersey. She completed her General Surgery Residency at Temple University Hospital in Philadelphia, Pennsylvania. Dr. Keller joins the University Hospitals Case Medical Center Division of Colorectal Surgery as a research fellow. Her interests include surgical outcomes quality improvement, inflammatory bowel disease, pelvic floor disorders, and the genetic epidemiology of colorectal cancer. Dr. Keller plans to pursue a clinical Colorectal Residency after completing her research.

### **Justin Lawrence, MD**

Dr. Lawrence is a UK medical graduate, achieving his MBBS medical degree from St. Bartholemews Medical School in London, UK in 2004. He is a

member of the Royal College of Surgeons of Edinburgh and is a surgical trainee in the UK. He has worked in numerous institutions in the UK in various surgical capacities, but his area of interest lies in laparoscopic coloproctology. He is currently a research fellow at University Hospitals Case Medical Center, Division of Colorectal Surgery. He is pursuing a registrar position in the UK in general surgery, with a view to subspecialisation in colorectal surgery following this research year.

### **Hoda Samia, MD**

Dr. Samia completed her bachelor studies in Biology/ Chemistry from University of Alberta, Canada and her Medical Degree from St. Matthews University, Grand Cayman. Following her graduation, she completed a general surgery internship from Case Western Reserve University Hospitals, Cleveland Ohio, and then joined the University Hospitals Case Medical Center Division of Colorectal Surgery as a research fellow. Her interests include surgical education and simulation and laparoscopic colorectal surgery. After completing her research, Dr Samia plans to complete her general surgery residency and a fellowship in colorectal surgery.

## **DIVISION EDUCATION**

The Division has an accredited ACGME Colorectal Fellowship Program and participated in the Colorectal Match in November, 2010. The program matched Dr. Joanne Favuzza, MD. Dr. Champagne, who is Program Director for the program, and Dr. Sharon Stein, have expanded this educational venture and have organized a novel course for career advice for Colorectal Fellows from all over the U.S. The inaugural course took place in Fall, 2010.

## **LAPAROSCOPIC TRAINING PROGRAMS**

Dr. Delaney has been faculty on multiple national and international training programs for laparoscopic colorectal surgery. He was Chair of the Laparoscopic Colorectal Course at the ASCRS in 2009, and will be Chair of the Simulation Course at ASCRS and the Colorectal Laparoscopic Skills course at SAGES in 2010. Dr. Delaney was co-organizer and faculty for the 1st Advanced Laparoscopic Colon Masterclass, Norwalk, Connecticut in September 2009.

Dr. Champagne has been invited faculty for multiple national training programs for laparoscopic colorectal surgery. He was invited to Chair the SAGES Laparoscopic Colorectal Course in Norwalk, Connecticut in November 2010. He is also the course director for the second annual Covidien Colorectal Fellows Career and Laparoscopic Colon Course that is held at Case Medical Center.

The Division helped to support the 5th International Congress of Laparoscopic Colorectal Surgery which was held in Fort Lauderdale, Florida in February 2010, and for which Dr. Delaney was Program Director. Drs. Champagne, Marderstein and Reynolds all participate in quarterly laparoscopic training courses.

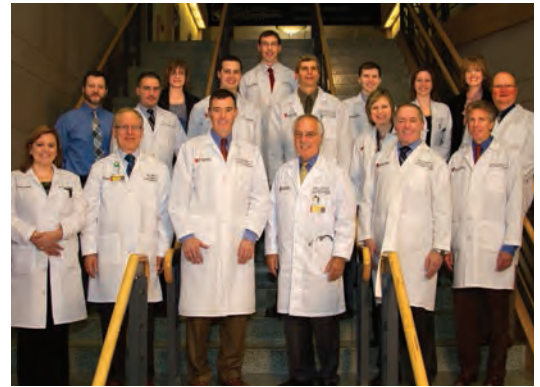
**DIVISION RESEARCH**

Research is an integral component of development of the Division of Colorectal Surgery. New studies are being established evaluating post-operative

ileus in laparoscopic and open colorectal patients. The Division has also been established as a site for a new multicenter trial to evaluate a new adhesion barrier after ileal pouch surgery. This hospital was one of six primary sites for the STARR trial on Stapled Transanal Rectal Resection for obstructed defecation which is being established by Ethicon Endosurgery. The hospital has just been approved as a site for the new ACOSOG trial comparing laparoscopic to open surgery for rectal cancer. Other trials include development of a new quality of life tool for patients undergoing abdominal surgery, and studies into new anastomotic techniques for colorectal surgery. Collaborative research projects are underway with Imperial College London, and the Surgical Outcomes Study Group. The presence and statistical expertise of Johnie Rose has allowed increased depth of research into to financial outcomes and efficiency of care.

**INSTITUTE FOR SURGERY AND INNOVATION**

Dr. Delaney is Director and co-founder of the Institute for Surgery and Innovation (ISI). The ISI is a training Institute which has three primary goals. The first goal is skills training which combines training for medical students and residents as well as for surgeons in practice in advanced laparoscopic techniques. Second, is to foster a multi-center research group which will perform clinical trials in various surgical disciplines. Third, is to harbor an Innovation Center which interacts with industry to create and test new technical products.



The teaching component has developed the fastest, and there are now between two and four courses each month held in the animate laboratory. Laparoscopic colorectal courses are held monthly, and waiting lists for these courses are approximately nine months. Courses in many other areas are also being held, and each is helping raise the level of awareness of the institution both regionally and nationally. More than 3,000 surgeons and physicians have been through the ISI in the last three years. In 2009, the Institute was accredited by the American College of Surgeons as a Level I training center.

Dr. Farhad Zeinali serves as Surgical Skills Trainer at the Institute, but is moving to a new position. Dr Sadaf Khan has recently been hired to start as Skills Trainer, and will now hold this post and direct skills training for the residents This year several abstracts have been submitted based on educational research being performed at ISI.

## PATIENT CARE WITHIN DIVISION

The Division continues to provide specialized care for patients with conditions affecting the colon, rectum and anus. The research being performed allows us to continue to develop the quality of care offered to patients and to allow us to maintain outcomes data with the goal of establishing the Division as a national leader in its area of expertise. The Procedure Room in Bolwell clinic offers 3-D imaging with ultrasound, as well as flexible endoscopy for patients at their initial presentation to the physician. Increasing experience with resection using Transanal Endoscopic Microsurgery (TEM) is being evaluated to increase the ability to provide the most cutting edge care for patients.

Patients are seen at main campus, as well as at facilities in Westlake, Green Road, Chagrin Highlands, Landerhaven and Twinsburg. Surgical procedures are primarily performed at main campus, however cases are also being performed at St. John Westshore Hospital, and at UH Ahuja Medical Center.

## DIVISION GOALS

- To continue clinical growth regionally and nationally
- To become increasingly recognized as leaders in colorectal surgical education
- To continue to develop the research program
- Establishment of a joint Inflammatory Bowel Center with Gastroenterology, a joint Colorectal Cancer Clinic with Oncology and Radiotherapy and a Pelvic Floor Center
- Build clinical volume by marketing laparoscopic colorectal surgery, anal surgery and pelvic floor surgery, and a rectal cancer center with facilities for intraoperative radiation, transanal surgery and laparoscopic surgery

## GRANTS

### Conor Delaney, MD, MCh, PhD

**Funding Source:** Storz Endosurgery

**Principal Investigator/Supervisor:** Jeffrey Ponsky, MD & Conor Delaney, MD

**Project Title:** Surgical Skills Trainer

**Project Period:** August 2007 to June 2012

**Total Amount:** \$80,000/year

**Funding source:** Norwegian Government

**Role:** International Collaborator

**Project title:** Mobile Mentor

**Project Period:** 2011-2013

**Total amount:** NOK 2.4M (\$400,000)

**Funding source:** Cleveland Foundation

**Role:** PI

**Project title:** UH-Socrates Database Project

**Period:** July 2010 – June 2012

**Total amount:** \$250,000

**Funding source:** University Hospitals Case Medical Center

**Role:** PI

**Project title:** UH-Socrates database project

**Total amount:** \$245,000

**Period:** March 2010 – Mar 2012





**Sharon Stein, MD**

**Role:** Primary Site Investigator,

**Project title:** Tranzyme Ulises-007, Post-operative Ileus Drug Study

**Period:** 2010-2011

**Total amount:** \$35,000 in site funding

**HONORS AND AWARDS****Conor Delaney, MD, MCh, PhD**

- Inaugural UH Leadership Academy
- Editorial Board for: Diseases of the Colon and Rectum, World Journal of Surgery, Colorectal Disease, World Journal of Gastroenterology, Polish Journal of Surgery, American Journal of Surgery
- Elected to membership, American Surgical Association
- Council, Midwest Surgical Association
- Council, American Society of Colorectal Surgeons
- Best Doctors In America, since 2005
- America's Top Doctors, since 2006
- America's Top Doctors for Cancer, since 2006
- Cleveland Magazine Top Doctors, since 2006
- Northern Ohio Live Top Doctors, since 2007
- Ethicon Lecture. International Society for Laparoscopic Colorectal Surgery, Colchester, UK, Sept 2011. "Laparoscopic Restorative Proctocolectomy".
- Incorporation of Barbers Lecture. Royal College of Physicians and Surgeons of Glasgow, Glasgow, UK, March 2012. "The State versus laparoscopic colorectal cancer surgery – guilty, innocent or not proven!"

**Brad Champagne, MD**

- Best Doctors since 2010

**Harry Reynolds, MD**

- Best Doctors Northern Ohio Live since 2005
- Top Docs Cleveland Magazine since 2005
- Best Doctors since 2004

**Sharon Stein, MD**

- Chair, American Society of Colon and Rectal Surgeon's Young Surgeon's Committee

**PUBLICATIONS****Book Chapters and Reviews**

- Netter's Surgical Anatomy and Approaches. Editor: Conor P Delaney. Elsevier, Philadelphia, PA. In press, due to be published late 2012.
- Quality Improvement and Efficiency of Care: Are Acronyms Really the Way of the Future? Delaney CP. Seminars Colorect Surg, 2011; 22: 192-6.
- Laparoscopic proctectomy in rectal cancer: oncologic considerations. Asgeirsson T, Delaney CP. Surg Lap Endosc Perc Tech, 2012; 22: pp.
- Clinical Review of: "Simunovic M et al. The cluster-randomized quality initiative in rectal cancer trial: evaluating a quality-improvement strategy in surgery. CMAJ 2010;182(12):1301-06". Delaney CP. Evidence Based Reviews in Surgery. In press.

- Current state of the art of laparoscopic colorectal surgery for cancer: Update on the four multicenter international trials. Lee J, Lipman J, Delaney CP. *Ann Sur Innov Res*, 2012 In press.
- The role of proximate feedback in skills training. Parmar S, Delaney CP. *The Surgeon*, 2011; 9 Suppl 1:S26-7.
- Laparoscopic ileocecectomy, small bowel resection and strictureplasty for Crohn's disease. Favuzza J, Delaney CP. *SAGES Fundamentals Manual*, 2011; In press.
- Techniques /Tips of Lower Endoscopy. Favuzza J, Delaney CP. *Principles of Flexible Endoscopy for Surgeons*. Eds Marks and Dunkin. Springer, In press.
- Laparoscopy for rectal cancer. Lawrence J, Delaney CP. *Colorectal Cancer (2<sup>nd</sup> Edition)*. Eds Vaccaro CCA, Lastiri JM, Rossi G, Varela E, Vaccarezza H. In press.
- Surgery in the United States – where are we in 2011? Delaney CP. *Bull Annals Roy Coll Surg*. In press.
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- Hurst RD, Stein SL, Michelassi F; "Fulminant Ulcerative Colitis", *American College of Surgeons Surgery 7th ed*. Ashley SW, Klingensmith ME, Cance WG, Jukovich GJ, Napolitano LM, Pearce WH, Pemberton JH, Soper NJ. BC Decker. 2011
- Stein SL, Michelassi F; *Crohn's Disease. Current Surgical Therapy*. 10<sup>th</sup> Ed. Cameron A, Cameron JP eds. Elsevier. 2011
- Stein SL, Delaney CP; "Laparoscopic Low Anterior Resection – Coloanal Techniques" *Master Techniques in Colon and Rectal Surgery*. Fleshman J, Wexner SD eds. Lippincott, Williams & Wilkins, Philadelphia, PA. 2011
- Fichera A, Stein SL, Michelassi F; "Strictureplasty" *Master Techniques in Colon and Rectal Surgery*. Fleshman J, Wexner SD eds. Lippincott, Williams & Wilkins, Philadelphia, PA 2011
- Stein SL, Michelassi F; "Indications and Techniques for Surgery of the Small Bowel Crohn's Disease" *Advanced Treatment of Inflammatory Bowel Disease*. 3<sup>rd</sup> ed. Bayless T, Hanauer SB Editors, PMPH USA 2011. In Press
- Stein SL, Delaney CP; "Postoperative Care"; *American Society of Colon and Rectal Surgery Text book*. Beck D, Senagore AJ, Roberts P, Wexner S, Saclarides, Stamos M, eds. Springer Verlag 2011. New York, NY 2011

## JOURNAL ARTICLES AND ABSTRACTS

- Single incision laparoscopic total colectomy and proctocolectomy: initial experience. Leblanc F, Makhija R, Champagne BJ, Delaney CP. *Colorect Dis*, 2011; 13: 1290-3.
- Stepwise assessment of operative skills (SATOS): validity testing on a porcine model of open gastrectomy. Leblanc F, Zeinali F, Marks J, Rosen M, Ponsky JL, Delaney CP. *J Am Coll Surg*, 2010; 211(5): 672-6.
- Single incision vs. straight laparoscopic segmental colectomy: a case-controlled study. Champagne BJ, Lee EC, Leblanc F, Stein SL, Delaney CP. *Dis Colon Rectum*, 2011; 54(2): 183-6.
- Enhanced recovery pathways optimize health outcomes and resource utilization: a meta-analysis of randomized controlled trials in colorectal surgery. Adamina M, Kehlet H, Tomlinson GA, Senagore AJ, Delaney CP. *Surgery*, 2011, 149: 830-40.
- International trends for surgical treatment of rectal cancer: operative rectal cancer surgery. Augestad KM, Lindsetmo RO, Reynolds H, Stulberg J, Senagore AJ, Champagne B, Heriot A, Leblanc F, Delaney CP. *Am J Surg*, 2011; .201(3): 353-8.
- Feasibility of self-appraisal in assessing operative performance in advanced laparoscopic colorectal surgery. Sarker SK, Delaney C. *Colorect Dis*, 2011; 13(7): 805-10.
- Laparoscopic Total Mesorectal Excision for Low Rectal Cancer. Adamina M, Delaney CP. *Surg Endosc*, 2011; 25: 2738-41.
- The effect of alvimopan on recovery after laparoscopic segmental colectomy. Obokhare ID, Champagne BJ, Stein SL, Krpata D, Delaney CP. *Dis Col Rectum*, 2011; 54(6): 743-6.

- Open versus endoscopic component separation: a cost comparison. Harth KC, Rose, Delaney CP, Blatnik JA, Halaweish I, Rosen MJ. *Surg Endosc*, 2011; 25(9): 2865-70.
- Randomized trial comparing cost and effectiveness of bipolar vessel sealers vs clips and vascular staplers for straight laparoscopic colorectal resections. Adamina M, Champagne BJ, Hoffman L, Ermlich B, Delaney CP. *Br J Surg*, 2011; 98(12): 1703-12.
- Single incision vs. standard multiport laparoscopic colectomy: a multi-center, case-controlled comparison. Champagne BJ, Papaconstinou H, Parmar S, Nagle DA, Young-Fadok TM, Lee EC, Delaney CP. *Ann Surg*, 2012; 255: 66-9.
- Effect of local anesthetics on postoperative pain and opioid consumption in laparoscopic colorectal surgery. Stuldreher JM, Adamina M, Konopacka A, Brady K, Delaney CP. *Surg Endosc*, epub Dec 17, 2011.
- Towards optimizing perioperative colorectal care: outcomes for 1000 consecutive laparoscopic colorectal procedures using enhanced recovery pathways. Delaney CP, Brady K, Woconish D, Parmar SP, Champagne BJ. *Am J Surg*, 2012; 203: 353-6.
- Laparoscopic versus open surgery for colon cancer in an older population. Cummings LC, Delaney CP, Cooper GS. *World J Surg Oncol*, 2012; 10(1): 31.
- Evaluation of Clinical Outcomes with Alvimopan in Clinical Practice: a National Matched Cohort Study in Patients Undergoing Bowel Resection. Delaney CP, Craver C, Maggard Gibbons, M, Rachfal AW, VandePol CJ, Cook SF, Poston S, Calloway M, Techner L. *Ann Surg*, 2012; 255: 731-8.
- Identification of Consensus-Based Quality Endpoints for Colorectal Surgery. Manwaring ML, Ko CY, Fleshman JW, Beck DE, Schoetz DJ, Temple LK, Morris AM, Delaney CP. *Dis Colon Rectum*, 2012; March.
- Surgical Quality Surrogates do not Predict Colon Cancer Survival in the Setting of Technical Credentialing: A Report from the prospective COST Trial. Mathis KL, Green EM, Sargent D, Birnbaum EH, Stern HS, Oommen SC, Simmang CL, Delaney CP, Nelson H. *Ann Surg*, In press.
- Medical Technology, Market Forces, and Hospital Prices: the Case of Laparoscopic Surgery for Colon Cancer. Dor A, Koroukian SM, Fang X, Stulberg JJ, Delaney CP, Cooper G. *Cancer*, In press.
- System-based Factors Impacting Intraoperative Decision-making in Rectal Cancer by Surgeons. An International Assessment. Augestad K, Lindsetmo RO, Stulberg J, Reynolds H, Sveakk E, Champagne B, Senagore AJ, Delaney CP. *Colorectal Disease*, In press.
- Bordeianou L, Stein SL, Ho VP, Dursun A, Sands BE, Korzenik JR, Jacob VE, Bosworth BP, Hodin RA. Immediate versus Tailored Prophylaxis to Prevent Symptomatic Recurrences after Surgery for Ileocecal Crohn's Disease. *Surgery*, 2011; 149(1):72-8
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- Ho VP, Barie PS, Stein SL, Trencheva K, Milsom JW, Lee SW, Sonoda T. Antibiotic Regimen and Timing of Prophylaxis Are Important Factors For Limiting Surgical Site Infection Following Elective Abdominal Colorectal Surgery. *Surg Infections* 2011; Epub ahead of print

- Ho VP, Trencheva K, Stein SL, Milsom JW. Mentorship for Participants in a Laparoscopic Colectomy Course. *Surg Endosc*, 2011; Nov 1; Epub ahead of print
- Stein SL, Stulberg J, Champagne BJ. Learning Laparoscopic Colectomy during Colorectal Residency: What does it take and how are we doing? *Surg Endosc*, *Surg Endosc* 2011, Sep 22 Epub ahead of print.

## INVITED LECTURES AND GRAND ROUNDS

### Conor Delaney, MD, MCh, PhD

- Total Mesorectal Excision. Pathology Grand Rounds, Dept of Pathology, University Hospitals of Cleveland, OH, Dec 2011.
- "Laparoscopic colorectal surgery: optimizing perioperative care" Department of Surgery, Ferguson Clinic, Spectrum Health Care, Grand Rapids, MI, Feb 2012.
- "Operational Efficiency in Colectomy from an Institutional Perspective" Department of Surgery, University of South California, Los Angeles, CA, Feb 2012.
- "Colorectal videos" 10th Advances in Minimally Invasive Surgery, Marco Island, February 2011.
- "Tissue Apposition System for the Colon". Fusion Summit, University of Oxford, UK, March 2011.
- "Advanced polypectomy beyond the snare: saline elevation and advanced endoscopic mucosal resection". Advanced Endoscopic and Interventional Colonoscopic Techniques. ASCRS, Vancouver, Canada, May 2011.
- "Role of proximate feedback in skills training".
- "Current concepts in laparoscopic and robotic approaches to colon and rectal cancer".
- "Fast-track protocols and resource optimization".
- "Single port sigmoid colectomy". Annual General Surgery Conference, Riyadh, Saudi Arabia, Mar 2011.
- "Reducing mortality, morbidity, cost and length of stay for bowel resection patients" Premier Breakthroughs Conference, Nashville, TN, June 2011.
- "Laparoscopy for rectal cancer"
- "Single port surgery, robotics and cost efficiency in colorectal surgery" 7th Shanghai International Colorectal Cancer Conference, Shanghai, China, June 2011.
- "A North American perspective on ERAS in colorectal surgery". Tripartite Colorectal Meeting, Cairns, July 2011.
- "Laparoscopic restorative proctocolectomy" International Society of Laparoscopic Colorectal Surgery, Colchester, UK, Sept 2011.
- "Polypectomy – pedunculated, sessile and difficult".
- "Polypectomy and beyond".
- "SCIP measures: what works, what doesn't" American College of Surgeons Meeting, San Francisco, Oct 2011.
- "Laparoscopic TME and stapled CAA"
- "Is Cylindrical APR in prone Jackknife position superior to Cylindrical APR in standard supine position?" FICARE, San Paulo, Brazil, Nov 2011.
- "Finding a niche" Colorectal Residents 2nd Annual Career Course, Nov 2011.
- "Laparoscopic rectal resection: standard or dispensable?" European Colorectal Congress, St. Gallen, Switzerland, Dec 2011.
- "Laparoscopic rectal cancer surgery: where are we now?" Southern California Colorectal Society, LA, Feb 2012.
- "Colorectal resection: Can we bring surgical care up to industrial standards?" MSQC, Detroit, April 2012.
- "Mesh repair and component separation for ventral hernias"
- "Extended submucosal resection"
- "Cost containment measures and quality initiatives in the hospital" ASCRS, San Antonio, TX, 2012.



**Sharon L. Stein, MD**

- Laparoscopic Colorectal Surgery, SAGES Basic Resident Course, Cincinnati, OH
- Global Health and Surgery: Getting and Being Involved, Holden Surgical Society, Case Medical Center, Cleveland, OH
- Hemorrhoidectomy: Advances and Updates, Harvard Medical School/MGH Postgraduate Course in General Surgery "Advances in Colorectal Surgery". Boston, MA
- The Use and Outcomes of Laparoscopic Colorectal Resection; Surgical Care and Outcomes Assessment Program. Kwon S, Flum D. Invited Discussant, American College of Surgeons, San Francisco, CA
- 1811 Surgery in 2011: Volunteering to Serve the Internationally Underserved, Massachusetts General Hospital Surgical Society 200th Reunion, Boston, MA
- Fecal Incontinence; Urologic Institute Pelvic Floor Center; University Hospitals, Case Medical Center, Cleveland, OH
- Volunteerism: Faculty Enrichment Seminars, University Hospitals, Case Medical Center, Cleveland, OH

**SELECTED ABSTRACTS**

**Sharon L. Stein, MD**

- Trunzo JA, Stein SL, LeBlanc F, Augestad K, Champagne BJ. An Intraoperative Algorithm for Conversion of Straight Laparoscopic Colectomy to Hand Assisted Colectomy: The Best of Both Worlds. American Society of Colon and Rectal Surgeons, Vancouver, BC, 2011
- Manwaring ML, Champagne BJ, Delaney CP, Valerian BT, Reynolds HL, Marderstein EL, Stein SL, Lee EC. Deep Postanal Space Sbscess with Horseshoe Fistula: What is the Treatment of Choice? American Society of Colon and Rectal Surgeons, Vancouver, BC, 2011
- Bordeianou L, Stein SL. Ileocectomy for Crohn's Disease: Which Factors Augment Intraoperative Small Bowel Preservation. Digestive Disease Week, Chicago, IL, 2011



**Division Chief**

Michael J. Rosen, MD

**Residency Program Director**

Jeffrey Marks, MD

**Faculty/Staff**

Leena Khaitan, MD, MPH

Jeffrey M. Marks, MD

Yuri Novitsky, MD

Raymond P. Onders, MD

Jeffrey L. Ponsky, MD

Alan A. Saber, MD, MS, FACS, FASMB

**Regional Faculty**

Vladimir Dubchuk, MD

Seth Eisengart, MD

Amitabh Goel, MD

Cathy Graham, MD

John Jasper, MD

Tanmay Lal, MD

Lisa Rock, MD



The Division of General and Gastrointestinal Surgery has maintained a continued high level of academic and clinical productivity, particularly in the field of minimally invasive surgical treatments of gastrointestinal diseases. Our Division strives to provide cutting edge treatment modalities to all aspects of gastrointestinal diseases. With clinical trials in endoscopic treatments of morbid obesity, single incision laparoscopic surgery, diaphragm pacing, and complex abdominal wall reconstructions, patients are offered the most up-to-date therapies for these and other gastrointestinal diseases.

During the past year, the Division of General and Gastrointestinal Surgery has continued its strong commitment to providing cutting-edge therapies for all aspects of minimally invasive gastrointestinal surgery. Dr. Jeffrey Ponsky and Dr. Jeffrey Marks completed the first international course on a brand new transoral approach to performing a Heller myotomy entirely endoscopically, termed P.O.E.M.: Per Oral Endoscopic Myotomy. This revolutionary new approach to Achalasia has eliminated surgical incisions and dramatically improved patients recovery with almost no discomfort. Dr. Ponsky and Dr. Marks have amassed one of the largest series of P.O.E.M.'s in the nation. The pioneering work of Dr. Alan Saber has led him to become an international leader in performing single incision surgery for bariatric surgery. Dr. Saber has spearheaded our unit's experience with single incision gastric sleeve surgery and has played a pivotal role in training other surgeons in performing these innovative techniques.

Dr. Onders continues to offer hope to many spinal cord injury patients and those with Amyotrophic Lateral Sclerosis with his groundbreaking research on diaphragm pacing. His team has also begun implanting these devices in children with spinal cord injuries and has successfully maintained them off the ventilator. Dr. Onders has received countless accolades for his efforts and is recognized as the leading international expert in this field. He has trained surgeons across four continents to perform this life-altering procedure.

The Case Comprehensive Hernia Center has revolutionized the care of the hernia patient, offering both minimally invasive repairs for routine hernia repair, to reconstructing some of the most complex abdominal wall defects. The multidisciplinary nature of our Center allows close interactions with plastic surgeons and general surgeons to offer the full spectrum of surgical reconstructive options for our patients. Redefining the concept of a functional dynamic abdominal wall reconstruction has resulted in a host of funded research grants, national awards, and direct patient benefits with these unique approaches. With the addition of Dr. Yuri Novitsky, an internationally recognized leader in abdominal wall reconstruction, and Co-Director of the Hernia Center, our team has received NIH funding for cutting edge research in improving prosthetic materials. Recognizing his wealth of experience both clinically and academically, Dr. Novitsky has assumed the role of Director of Surgical Research. In this role, he plans to continue the outstanding research that is occurring in our department and formalize funding opportunities for all surgical investigators.



The Comprehensive Metabolic and Bariatric Treatment Center, led by Dr. Alan Saber, continues to offer state-of-the-art therapy for those patients suffering from obesity. Working closely with Dr. Leena Khaitan, the Center now offers a full spectrum of care, including exciting single incision approaches to bariatric surgery, being performed without leaving a visible scar. Dr. Saber has recently been named the Director of Metabolic Surgery, and in this role will begin trials on various exciting surgical options for treating diabetes.

Dr. Leena Khaitan is the former Director of the Comprehensive Metabolic and Bariatric Treatment Center, and successfully helped rebuild the program. She has helped to expand the program to two campuses so that bariatric surgery is now offered at two sites in the University Hospitals system. She has handed the reigns of the Center to Dr. Alan Saber, and is now the Associate Director of the program.

Dr. Khaitan is currently the Director of the newly formed Center for Esophageal and Swallowing Disorders. Dr. John Dumot, from the Department of Gastroenterology, is the Co-Director of the Center. This Center, within the Digestive Health Institute, encompasses many disciplines including gastroenterology, minimally invasive surgery, thoracic surgery, radiology and oncology. Dr. Khaitan has spearheaded the effort to provide cutting edge diagnostic capabilities for esophageal and swallowing disorders, including high resolution manometry and impedance technology. The directors will work together to implement strategies for expeditious multidisciplinary evaluation of benign and malignant esophageal diseases. The Center will provide state-of-the art treatments for these challenging disorders.

Under the leadership of Dr. Michael Rosen, UHCMC has addressed the increasing need for inpatient surgical care. The Acute Care Surgery Service has recently been developed to provide rapid access to surgical consultation. Dr. Rosen has spearheaded this effort and has successfully implemented strategies for all surgical consults to be seen within one hour, and improved throughput to the

operating room for those in need of urgent surgical exploration. We have seen significant growth of this service after opening the new emergency department at UHCMC, and look forward to the continuing expansion of this important opportunity. Our Division is in the process of hiring a new Director of the Acute Care Surgical Service.

Recognizing the growing number of complex patients being referred to the Department of Surgery at UHCMC, Dr. Michael Rosen and Dr. Sharon Stein, from the Division of Colorectal Surgery, have collaborated to create the Case Acute Intestinal Failure Unit. This Unit is the first of its kind in the United States. It consists of a multi-disciplinary team that involves GI surgeons, reconstructive surgeons, enterostomal nurses, nutritionists, and critical care specialists.



**Case Acute Intestinal Failure Unit**

This team is specifically designed to address those patients with acute intestinal failure from abdominal catastrophes, gastrointestinal fistulas, complex inflammatory bowel disease, and major abdominal reconstructions. Since its introduction, this Unit has already received national and international referrals, and looks to be a major area of growth for our Department of Surgery.

With the incorporation of University Hospitals Practice Groups, the groundwork has been laid for true system-wide patient care. In particular, Dr. Amitabh Goel has provided tremendous



leadership to the community-based surgeons while being an active member in the Division of General and Gastrointestinal Surgery at UHCMC. As this collaborative effort grows, the potential for incorporating these dynamic surgeons into the clinical rotations and residency teaching program may be examined. As the new hospital systems of UH Ahuja Medical Center and the UH Seidman Cancer Center are introduced, we look forward to the exciting role that the Division of General and Gastrointestinal Surgery will play to further the care of those patients.

**RESIDENCY PROGRAM DIRECTOR**

**Jeffrey Marks, MD**

Dr. Jeffrey Marks has assumed the role of Program Director of our residency program from Dr. Julian Kim, who was in that position since 2007. Dr. Marks is a Professor of Surgery and directs the surgical endoscopy program and fellowship at UHCMC. Dr. Marks is nationally renowned for his contributions to surgical education and is one of the founders of the Fundamentals of Endoscopic Surgery.



**STAFF/FACULTY**

**Jeffrey L. Ponsky, MD**

In 2005, Dr. Ponsky became the Oliver H. Payne Professor and Chairman, Department of Surgery at Case Western Reserve University (CWRU). Prior to this appointment, Dr. Ponsky held the position of Professor of Surgery at the Cleveland Clinic Lerner College of Medicine and Director of Graduate Medical Education at the Cleveland Clinic Foundation. Dr. Ponsky is a graduate of CWRU School of Medicine (1971) and completed his surgical internship and residency at CWRU Integrated Surgical Residency Program (1971-1976). In 1990, he received his MBA from CWRU Weatherhead School of Management. Dr. Ponsky has served as a Director of the American Board of Surgery (ABS) and is past Chairman of the ABS. He has served as President of the following organizations: the American Society for Gastrointestinal Endoscopy (1996-1997); the Ohio Chapter of the American College of Surgeons (1994-1995); the Society of American Gastrointestinal Endoscopic Surgeons (1990-1992); Northeastern Ohio Society for Gastrointestinal Endoscopy (1982-1987); and the Cleveland Surgical Society (1990-1991). Dr. Ponsky has received numerous awards including the prestigious Rudolf Schindler Award presented by the American Society for Gastrointestinal Endoscopy (2002). He has published over 230 manuscripts, book chapters and books. Dr. Ponsky's area of expertise is in surgical endoscopy and minimally invasive surgery. The Jeffrey Ponsky Chair in Surgical Education was established at Case School of Medicine in 2008.

**Michael J. Rosen, MD**

Dr. Rosen joined the Department after completion of a Fellowship in Minimally Invasive Surgery at Carolinas Laparoscopic and Advanced Surgery Program, Carolinas Medical Center, Charlotte, North Carolina (2004-2005). Dr. Rosen received his medical degree from University of Southern California (1993-1997) and his surgical residency training at the Massachusetts General Hospital, Harvard Medical School (1997-2004). He completed a Research Fellowship in Minimally Invasive Surgery at the Cleveland Clinic (2000-2002) during his surgical residency. Dr. Rosen has been prolific with

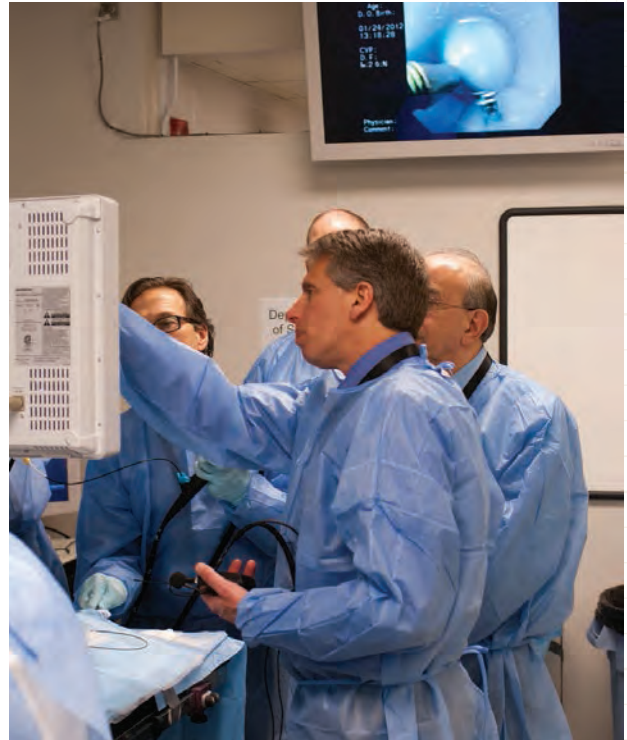
the publication of over 150 manuscripts and book chapters. Dr. Rosen has recently completed his third surgical textbook, and recently published the Atlas of Abdominal Wall Reconstruction. He has given multiple presentations in his area of expertise, which is advanced laparoscopy and complex abdominal reconstruction. Dr. Rosen has been a perennial recipient of the Department of Surgery Best Teacher Award. In 2009, Dr. Rosen received the SAGES Young Investigator Award. Dr. Rosen has received multiple grants for his work in abdominal wall reconstruction and recently was awarded an NIH grant as a Co-Investigator for his work in developing an antibiotic impregnated prosthetic mesh.

### Raymond P. Onders, MD

Dr. Onders joined the Division and the Department of Surgery as an Assistant Professor of Surgery in 1997 after completing his commitment to the U.S. Air Force. Dr. Onders received his medical degree in 1988 from Northeastern Ohio Universities College of Medicine. He completed his surgical residency training at CWRU Integrated Surgical Residency Program (1988-1993). Dr. Onders achieved expertise in advanced laparoscopy during his military assignments at Grand Forks Air Force Base, North Dakota and North Dakota School of Medicine (1993-1996) and Wright-Patterson Air Force Base, Ohio and Wright State University School of Medicine (1996-1997). He was promoted to Associate Professor of Surgery at CWRU in June 2004. Dr. Onders was President of the Cleveland Surgical Society (2005-2006). He has received numerous awards for his work in diaphragm pacing, holds multiple U.S. patents for this technology and has received several privately funded grants for this work. He has published over 40 manuscripts and book chapters. Dr. Onders has been a frequent recipient of Cleveland Magazine's Best Doctor recognition.

### Jeffrey M. Marks, MD

Dr. Marks joined the Department of Surgery in 2006 and was promoted to the rank of Associate Professor in 2007. He received his medical degree from Tufts University School of Medicine (1987) and completed his surgical residency training at the Mt. Sinai Medical Center in Cleveland (1987-



1992). Following residency training, he undertook a Fellowship in Surgical Endoscopy at the same institution (7/1992-12/1992). Dr. Marks was President of the Cleveland Surgical Society (2004-2005). He has been recognized for his teaching efforts. He serves on the Editorial Boards of Surgical Endoscopy (2002 - present), Laparoendoscopic and Advanced Surgical Techniques (2004-present) and Surgical Innovations (2005-present). Dr. Marks is actively involved in the teaching of surgical endoscopy, his area of expertise.

### Leena Khaitan, MD, MPH

Dr. Khaitan joined the Department of Surgery in 2007 as an Associate Professor. Previously, she was Assistant Professor of Surgery at Emory University and Director of the GI Physiology Laboratory at Emory University Hospital. She completed a two-year fellowship in Minimally Invasive Surgery, as well as receiving her Masters in Public Health at Vanderbilt University Medical Center (2000-2002). In 2006, Dr. Khaitan was awarded the Young Investigator's Award by SAGES. Her area of interest and expertise is in esophageal swallowing disorders, minimally invasive surgery and bariatric surgery. Dr. Khaitan is now a Board member of SAGES and chairs the Resident Education Committee for SAGES.

**Alan A. Saber, MD, MS, FACS, FASMBS**

Dr. Saber received his medical degree with honor and completed his residency in General Surgery at Alexandria University School of Medicine in Alexandria, Egypt. During his residency he was granted a Master's Degree in Surgery from the University of Alexandria. He also completed a residency in General Surgery at Mount Sinai School of Medicine in New York, New York and a Fellowship in Advanced Minimally Invasive Surgery and Bariatric Surgery at The Cleveland Clinic in Weston, Florida. He served as a Chief, Section of Minimally Invasive Surgery, Medical Director of Bariatric Surgery, Associate Professor of Surgery, Michigan State University.

Currently, Dr. Saber is Director of Metabolic Surgery at University Hospitals, and is an Associate Professor of Surgery at Case Western Reserve University School of Medicine. He is a member of the European Association for Transluminal Surgery; the American Society for Metabolic and Bariatric Surgery; the American College of Surgeons; the Society of American Gastrointestinal Endoscopic Surgeons; and the American Hernia Society. He is on the editorial board of Obesity Surgery, Bariatric Times, Global Journal of Surgery, and Surgical Techniques Development. Dr. Saber serves as a reviewer to many journals.

**Yuri Novitsky, MD**

Dr. Novitsky joined the Department of Surgery at University Hospitals Case Medical Center in early 2011. He is Co-Director of the Case Comprehensive Hernia Center, and Director of Surgical Research. He is also an Associate Professor of Surgery with Case Western Reserve University. Dr. Novitsky comes to UHCMC from the University of Connecticut Health Center, where he was Chief of Laparoscopic Surgery and the Director of the Connecticut Comprehensive Center for Hernia Repair. Dr. Novitsky has extensive expertise in the repair of groin, ventral, and hiatal hernias. His laboratory work is focused on testing and improving prosthetic and biologic materials used in hernia repair procedures. Dr. Novitsky has authored and co-authored more than 60 scientific papers and book chapters on the topic of prosthetic materials and hernia repair. He has also successfully developed and applied a variety of innovative

techniques in both laparoscopic hernia repairs and major abdominal wall reconstructions. Dr. Novitsky was trained in general surgery at the Mount Sinai Medical Center in New York, New York and the University of Massachusetts Medical Center, and then completed his research and clinical fellowships in minimally invasive surgery at the Carolinas Medical Center in Charlotte, North Carolina.



**Case Comprehensive Hernia Center**

**REGIONAL FACULTY****Vladimir Dubchuk, MD**

Dr. Dubchuk attended Lviv State Medical University and did his general surgery residency at University Hospitals Case Medical Center. His specialties are general surgery including surgical pathology of the gastrointestinal tract, minimally invasive surgery, colorectal surgery, endoscopy, thyroid and parathyroid surgery.

**Seth Eisengart, MD**

Dr. Eisengart attended medical school at Finch University and did his general surgery residency at Bronx Municipal Hospital Center. His specialties include general surgery and surgery of the hand.

**Amitabh Goel, MD**

Dr. Goel attended Queen's University Medical School and did his general surgery residency at Western Pennsylvania University. He completed a fellowship at the University of Pittsburgh. Dr. Goel's specialties include general surgery, minimally invasive surgery and critical care.



### Cathy Graham, MD

Dr. Graham attended Duke University School of Medicine and did her general surgery residency at UHCCM. Her specialties include general surgery, breast surgery, trauma, gastrointestinal surgery and emergency medicine.

### John Jasper, MD

Dr. Jasper received his medical degree in 1996 from the University of Minnesota. He completed his surgical training at CWRU Integrated Surgical Residency Program (1996-2001). Since that time, he has been on the staff at University Hospitals Case Medical Center, the Louis B. Stokes Cleveland VA Medical Center and University Hospitals Regional Institutions. Dr. Jasper's areas of surgical interest include general, bariatric, breast and advanced laparoscopic surgery.

### Tanmay Lal, MD

Dr. Lal attended medical school at Topiwala National Medical College and did his general surgery residency at Thomas Jefferson UHCCM. He completed transplant fellowships at the University of Maryland and the Hospital of the University of Pennsylvania. Dr. Lal's specialties include general surgery, transplant surgery and renal transplant surgery.

### Lisa Rock, MD

Dr. Rock attended medical school at the Medical College of Pennsylvania and completed her general surgery residency at CWRU Integrated Surgical Residency Program. Her specialties include general surgery and vascular surgery.

## GRANTS AND PROTOCOLS

"Evaluation of a Biologic Mesh Covering for Prevention of ESD-induced Strictures". Acell. \$10,000 (PI) 2011-2012.

"Evaluation of a Novel Temporary Ileostomy Device in a Porcine Model". WL Gore. \$14,349 (PI) 2012.

"Anti-scarring Therapy to Prevent Strictureing Following Endoscopic Esophageal Mucosectomy". SAGES 2012 Research Grant Award - \$30,000 (PI) Funding Period: 2012-13.

Davol Corporation

Prospective randomized trial of Xenmatrix versus Component separation alone for complex abdominal wall reconstruction.

Project Role: PI Michael Rosen

Award: \$185,000

W.L. Gore

Prospective trial of BioA reinforcement of complicated abdominal wall reconstruction.

Project Role: PI Michael Rosen

Award: \$65,000

Stand Alone Platform for Affinity Based Delivery.

Award: \$60,000

NIH: SBIR Grant

Project Role: Co-Investigator Michael Rosen





**LEADERSHIP ACTIVITIES (NATIONAL AND REGIONAL)****Jeffrey L. Ponsky, MD**

- Member, Surgical Management Committee for Ahuja Medical Center – 2011 – Present
- Member, American Surgical Association (ASA) Ad Hoc Lifetime Achievement Award Committee – 2011 – Present
- Chair, AOA (Alpha Omega Alpha) Medical Honor Society Chapter of CWRU, 2008-Present
- Vice President, American Surgical Association (ASA), 2010-2011
- Vice President, The Society for Surgery of the Alimentary Tract (SSAT), 2010-2011
- Member, UHMG Finance/Operations Committee, 2010-2011
- Member, Executive Steering Committee Advanced Platform Technology (APT) Center VA and CWRU, 2010-2011
- Chairperson, Surgical Endoscopy Committee – World Organization of Digestive Endoscopy – 2009-2013
- Member, Editorial Board, "Digestive Endoscopy" – 2011- present

**Michael J. Rosen, MD**

- Board of Governors, American Hernia Society

**PUBLICATIONS**

- Marks JM, Tacchiino R, Roberts K, Onders R, DeNoto G, Paraskeva P, Rivas H, Soper N, Rosemurgy A, Shah S. Prospective Randomized Controlled Trial of Traditional Laparoscopic Cholecystectomy versus SILS™ Port Laparoscopic Cholecystectomy: Report of Preliminary Data. *Am J Surg.* 2011 Mar;201(3):369-72; discussion 372-3 2010.
- Elmunzer BJ, Sonnenday CJ, Taylor JR, Furlan JP, Schomisch SJ, Scheiman JM, Chak A, Marks JM, Ponsky JL. Endoscopic access to and exploration of the lesser sac in a human cadaver model: opportunity for transgastric endoscopic pancreatic surgery (with video). *Surg Endosc* (2011) 25(8): 2725-30. DOI 0.1007/s00464-011-1607-3.
- Phillips M, Marks JM. Overview of methods for flexible endoscopic training and description of a simple explant model. *Asian J of Endosc Surg.* EPub April 2011.
- Schomisch SJ, Elmunzer BJ, Trunzo JA, Poulouse BK, Chak A, Marks JM, A Comparison Of Anterior Transgastric Access Techniques for Natural Orifice Transluminal Endoscopic Surgery. *Surg Endosc.* 2011 Dec;25(12):3906-11. Epub 2011 Jul 26.
- Phillips MS, Marks JM, Roberts K, et al. Intermediate results of a prospective randomized controlled trial of traditional four-port laparoscopic cholecystectomy versus single-incision laparoscopic cholecystectomy. *Surg Endosc.* Epub November 15, 2011.
- Fourman M, Saber AA. Robotic Bariatric Surgery: A Systematic Review. *Accepted Surg Obes Relat Dis.* 2011
- Fathi A, Soltaian H, Saber AA. Surgical Anatomy and Morphologic Variations of Umbilical Structures. *Accepted American Surgeon.*
- Aurora AR, Khaitan L, Saber AA. Sleeve gastrectomy and the risk of leak: a systematic analysis of 4,888 patients. *Surg Endosc.* 2011 Dec 17. [Epub ahead of print].
- Lakkis D, Bissada NF, Saber A, Khaitan L, Palomo L, Narendran S, Al-Zahrani MS. Response to Periodontal Therapy in Subjects Who Had Weight Loss Following Bariatric Surgery and Obese Counterparts: A Pilot Study. *J Periodontol.* 2011 Oct 20. [Epub ahead of print].
- Saber AA. Single Incision Sleeve Gastrectomy. *Bariatric Times.* 2011 May; 8( 5): 20-21 Supplement
- Blatnik JA, Harth KC, Aeder MI, Rosen MJ. Thirty-day readmission after ventral hernia repair: predictable or preventable? *Surg Endosc.* 2011 May;25(5):1446-51.
- Harth KC, Broome AM, Jacobs MR, Blatnik JA, Zeinali F, Bajaksouzian S, Rosen MJ. Bacterial clearance of biologic grafts used in hernia repair: an experimental study. *Surg Endosc.* 2011 Feb 7.
- Halawish I, Harth K, Broome AM, Voskerician G, Jacobs MR, Rosen MJ. Novel in vitro model for assessing susceptibility of synthetic hernia repair meshes to *Staphylococcus aureus* infection using green fluorescent protein-labeled bacteria and modern imaging techniques. *Surg Infect (Larchmt).* 2010 Oct;11(5):449-54.
- Harth KC, Blatnik JA, Rosen MJ. Optimum repair for massive ventral hernias in the morbidly obese patient-is panniculectomy helpful? *Am J Surg.* 2011 Mar;201(3):396-400; discussion 400.

- Harth KC, Rose J, Delaney CP, Blatnik JA, Halaweish I, Rosen MJ. Open versus endoscopic component separation: a cost comparison. *Surg Endosc.* 2011 Sep;25(9):2865-70.
- Orenstein SB, Kaban GK, Litwin DEM, Novitsky YW. Evaluation of serum cytokine release in response to hand-assisted, laparoscopic, and open surgery in a porcine model. *The American Journal of Surgery*, 2011;202(1):97-102
- Saberski ER, Orenstein SB, Novitsky YW. Anisotropic Evaluation of Synthetic Surgical Meshes. *Hernia.* 2011;15(1):47-52.
- Orenstein SB, Dumeer JL, Monteagudo J, Poi MJ, Novitsky YW. Outcomes of Laparoscopic ventral hernia repair with routine defect closure using "Shoelace" technique. *Surgical Endoscopy.* 2011;25:1452-1457
- Nguyen PH, Keller JE, Novitsky YW, Heniford BT, Kercher KW. Laparoscopic approach to adrenalectomy: review of perioperative outcomes in a single center. *The American Surgeon*, 2011;77(5):592-6.
- Orenstein SB, Elliott HL, Reines L, Novitsky YW. Advantages of the hand-assisted versus the open approach to elective colectomies. *Surgical Endoscopy.* 2011;25:1364-1368.
- Nikfarjam, M., Ponsky, J.L: *Endoluminal Approaches to Gastroesophageal Reflux Disease* Current Surgical Therapy 10<sup>th</sup> Edition J.L. Cameron (Editor) (Johns Hopkins Medical Institutions) Elsevier Mosby, Philadelphia, PA, pp. 19-21, 2011.
- Nikfarjam, M., Ponsky, J.L: *Endoluminal Approaches to Pancreatic Pseudocyst* ACS Multimedia Atlas of Surgery: Pancreas Surgery Volume Horacio J. Asbun (Editor) Cine-Med, Inc., Woodbury, CT, pp. 51-56, 2011.

## BOOK CHAPTERS

- Marks JM. Heineke-Mikulicz Pyloroplasty and Duodenotomy for Bleeding Ulcer. *Netter's Surgical Anatomy and Approaches.* 2011.
- Phillips M, Marks JM. Truncal Vagotomy / HSV. *Netter's Surgical Anatomy and Approaches.* 2011.
- Marks JM. FES/FLS. *SAGES Fundamentals Vol. II, Advanced Minimally Invasive Surgery Procedures, Third Edition.* 2011.
- Phillips M, Marks JM. ERCP: General Principles; Complications of ERCP. *SAGES Fundamentals Vol. II, Advanced Minimally Invasive Surgery Procedures, Third Edition.* 2011.
- Banerjee A, Phillips M, Marks JM. Diagnostic Colonoscopy. *SAGES Fundamentals Vol. II, Advanced Minimally Invasive Surgery Procedures, Third Edition.* 2011.
- Chukwumah C, Marks JM. Bariatric Endoscopy: Normal Post- Surgical Anatomy. 2011.
- Saber AA. Gastric bypass. *Conner Delany, Natter atlas of Surgical Anatomy.* Elsevier. 2011 In press.
- Saber AA. Laparoscopic Repair of Parastomal Hernia. Michael Rosen. *Atlas of abdominal wall surgery.* Elsevier. 2012.
- El-Ghazaly T H, Saber A A. Laparoscopic ventral hernia repair: The scroll technique. *American College of Surgery; Multimedia Atlas of Surgery: Hernia Surgery Volume.*
- Novitsky YW. Open Retromuscular Ventral Hernia Repair. In: *Atlas of Abdominal Wall Reconstruction*, Rosen MJ ed, Saunders 2011, Chapter 5, pages 74-95
- Orenstein SB, Novitsky YW. Synthetic Mesh Choices for Hernia Repair. In: *Atlas of Abdominal Wall Reconstruction*, Rosen MJ ed, Saunders 2011, Chapter 19, pages 322-328.

## DIVISION GOALS

- Continue to increase academic productivity
- Continue to increase surgical volume
- Incorporate community surgeons into the teaching activity of the Department of Surgery
- Expand research funding for the Division and the Department through National Institutes of Health funding

## EDUCATIONAL GOALS

- Achieve a 100% pass rate for our graduating chief residents for both the qualifying and certifying American Board of Surgery Examination
- Each surgical resident in our program should accomplish at least one significant contribution to the medical literature
- Obtain 100% completion rate of fundamentals of laparoscopic surgery for each resident in our program

**Division Chief**

Dale A. Baur, DDS

**Residency Program Director**

Faisal A. Quereshy, MD, DDS, FACS  
(Associate Professor)

**Staff/Faculty**

Jerold S. Goldberg, DDS  
Robert Heckel, DDS  
Marc A. Zechel, DDS, MD  
(Chief Wade Park VA OMS, Cleveland, OH)  
Jill Weber, DMD  
(Chief Cleveland Clinic OMS)  
Michael P. Horan DDS, MD, PhD  
Michael Hauser, DMD, MD  
William Blood, DDS, MD  
John Blakemore, DDS  
Paul Bertin, DDS  
Michael Zetz, DDS  
Marion Wazney, DDS  
Scott Alperin, DDS  
David Ash, DDS  
Luc Cestelyn DDS, MD  
Charles Babbush, DDS, MS  
Andrew N. Berman DDS  
Eric S. Fried, DDS  
Frank Karfes, DDS  
James Julian, DDS  
John P. Neary, DDS, MD

The Division of Oral and Maxillofacial Surgery provides a broad range of services to our patient population. As defined by the American Association of Oral and Maxillofacial Surgeons, Oral and Maxillofacial Surgery is the specialty of Medicine/ Dentistry that includes the diagnosis, surgical and related treatment of diseases, injuries and defects involving both the functional and esthetic aspects of the hard and soft tissues of the head, face, mouth, teeth, gums, jaws and neck. Oral and maxillofacial surgeons are specialists who treat conditions, defects, injuries, and esthetic aspects of the mouth, teeth, jaws, and face. The training of our surgical residents includes a four-year graduate degree in dentistry and the completion of a five-year hospital based surgical residency program which includes attending medical school to obtain a medical degree, and a year of general surgery training.

Oral and maxillofacial surgeons care for patients who experience such conditions as problematic or impacted wisdom teeth, facial pain, and misaligned

jaws. They treat accident victims suffering facial injuries, offer reconstructive and dental implant surgery, and care for patients with tumors and cysts of the jaws and functional and esthetic conditions of the maxillofacial areas. With our advanced training in pain control and anesthesia, we are able to provide our patients with maximum comfort and safety.

The academic Department of Oral and Maxillofacial Surgery at Case Western Reserve University is subdivided into three entities: the Department of Oral and Maxillofacial Surgery at University Hospitals Case Medical Center (UHCMC), Louis B. Stokes Cleveland VA Medical Center, and the Case School of Dental Medicine. This three-tier structure ensures that our residents gain experience in all of the essential areas of clinical surgery. Recently, we established an educational affiliation with the Oral and Maxillofacial Service at the Cleveland Clinic Foundation, allowing our residents the opportunity to rotate in that facility.





**GENERAL RESIDENCY INFORMATION**

**PGY 1**

- 10 months: Internship Oral and Maxillofacial Surgery  
University Hospitals Case Medical Center  
Louis B. Stokes VA Medical Center
- 2 months: Anesthesia rotation; Department of Anesthesia  
University Hospitals Case Medical Center

**PGY II**

- 12 months: Case School of Medicine

**PGY III**

- 4 months: Anesthesia  
University Hospitals Case Medical Center
- 6 months: Oral and Maxillofacial Surgery  
University Hospitals Case Medical Center  
Cleveland Clinic Hospital
- 2 months: Case School of Medicine  
Awarded degree Doctor of Medicine (MD)

**PGY IV**

- 12 months: General Surgery (internship)  
University Hospitals Case Medical Center

**PGY V**

- 12 months: Oral and Maxillofacial Surgery (Chief Resident)  
University Hospitals Case Medical Center

**RESIDENT EDUCATION**

- Tuesday AM: Basics in OMS (Quereshy)
- Wednesday AM: Orthognathic / Orthodontic Conference (Quereshy / Valiathan – Orthodontics)  
Literature Review (Quereshy)
- Wednesday PM: Craniofacial Center, Rainbow Babies and Children’s Hospital
- Thursday AM: Clinical Case Presentation Conference (Hauser)
- Thursday PM: Anesthesia Conference (Bertin)
- Friday AM: Oral Pathology Conference (Sawyer)

**DIVISION GOALS**

Our primary goal is to establish the division/department as a national center of excellence in modern oral and maxillofacial surgery. We strive to continue to provide state-of-the-art care to our patients. As a means to this end, we will continue to recruit strong residents to our training program.

## PUBLICATIONS

### Dale A. Baur, DDS

- El A, Gou W, Baur DA, et al: Pseudoaneurysm of The External Carotid Artery Secondary to Subcondylar Fracture. *Int J Oral Maxillofac Surg* 40: 644-646, 2011.
- Bushey AW, Boice JG, Baur DA, et al: Utilization of the Tympanomastoid Fissure for Intraoperative Identification of the Facial Nerve; A Cadaver Study. *J Oral Maxillofac Surg*, 69:2473-76, 2011.
- El A, El H, Polomo M, Baur DA: 3D Airway Analysis in an OSA Surgical Correction with Cone Beam Computed Tomography. *J Oral Maxillofac Surg*,69:2424-36, 2011.
- Baur DA, Dhaliwal H, Nijawan S, Manlove A: Temporomandibular Joint Replacement. *Medscape (Emedicine)* August 2011.
- Quereshy FA, Barnum G, Baur DA, et al: Use of Cone Beam Computed Tomography to Assess Alveolar Cleft Defects—Preliminary Results. *J Oral Maxillofac Surg*, 70(1), 188-91, 2012.
- Elimairi I, Elhassan AM, Suliman AM, Baur DA, Teppa J: Sublingual Soft Tissue Mass. *J Oral Maxillofacial Surg*, 70(1), e23-e27, 2012.
- Shehab M, Baur DA, et al: A Novel design of a Computer Generated Splint for Vertical Repositioning of the Maxilla After Le Fort I Osteotomy: A Technical Note. *Oral Surgery, Oral Medicine, oral Pathology*. In press 2012.
- Baur DA, Collette DC, Weber J, et al: Osteonecrosis of the Jaws Unrelated to Bisphosphonate Use: A Series of Four Cases. *J Oral Maxillofacial Surg* Jan 2012 (in press).
- Baur DA, Teppa J: Dental Implants and Mini-implants. *Medscape (Emedicine)* February 2012.
- Baur DA, Horan MP, Rodriguez JR: Utilization of Pectoralis Major Myocutaneous and Myofascial Flaps in Oral and Maxillofacial Reconstructive Surgery. *Current Therapy*. In *Oral & Maxillofacial Surgery*, 1st edition. Editors: Bagheri SC, Bell RB, Ali Khan H. Elsevier, September 2011.

### Faisal A. Quereshy, MD, DDS, FACS

- Dhaliwal H, Baur D, Dhaliwal S, Heckel R, Quereshy FA. Diagnosis and management of upper airway obstruction secondary to lingual hematoma: Report of a Case *J Oral Maxfac Surg* 69:2, 2011.
- A.S. El, W. Guo, T. Loveless, S.S. Dhaliwal, F.A. Quereshy, D.A. Baur, N.S. Pseudoaneurysm of the external carotid artery secondary to subcondylar fracture *International Journal of Oral & Maxillofacial Surgery* May 2011. (11: IJOMS-D-10-00323R1 in press; online available)
- Bushey A, Quereshy FA, Boice JG, Landers MA, Baur DA. Utilization of the Tympanomastoid Fissure for Intraoperative Identification of the Facial Nerve: A Cadaveric Study. *JOMS* 69 (9):2473-2476, 2011.
- Fattahi, T, Quereshy FA. Septoplasty: Thoughts and considerations. *J Oral Maxfac Surg* 69:12, 528-532, December 2011.
- Quereshy FA, Barnum G, Jannuzzi J, Demko C, Horan M, Palomo JM. Utilization of Cone Beam CT Imaging to Volumetrically Assess Alveolar Cleft Defects. *J Oral Maxfac Surg*, Volume 70, Issue 1, Pages 188-191, January 2012.
- Baur DA, Quereshy FA, Weber J, Collette D. Osteonecrosis of the Jaws Unrelated to Bisphosphonate Exposure: A Series of Four Cases *J Oral Maxfac Surg* (-D-12-00133R2) accepted for publication.

## PRESENTATIONS

### Dale A. Baur, DDS

- BRONJ: Update and management. Presented to the Composite study club, Lakewood, OH. February 3, 2011.
- Orthognathic Surgery lecture to Department of Plastic Surgery, UC/CMC, 9 May 2011.
- Strasbourg Osteosynthesis Group Oncology and Reconstruction Course: Major Pedicled Flaps, Dallas, TX 13 May 2011.
- Ohio State University Department of Oral and Maxillofacial Surgery Annual Graduation Guest Speaker: Management of Parotid Gland Tumors, Major Pedicled Flaps, Local Flaps 27 June, 2011, Columbus, OH.
- The Marginal Mandibular Nerve in Relation to the Inferior Border of the Mandible Kaiser A, Leech B, Baur DA, et al. Poster presentation, AAOMS annual meeting, Philadelphia, PA, September 2011.

- Airway Changes after Orthognathic Surgery” Williams J, Quereshy F, Baur DA, Shehab M. Poster presentation, AAOMS annual meeting, Philadelphia, PA, September 2011.
- AAOMS annual meeting: Keynote Speaker oral abstracts session: Trauma/Regenerative Medicine, 15 September 2011, Philadelphia, PA.
- Medical emergencies in the dental office. Forest City Dental Society, Cleveland, OH. 21 October 2011.
- Management of Surgical Complications, Management of the Anticoagulated Patient, Reconstruction of the Jaws, BRONJ update. The Greater Cleveland Dental Society, 4 November 2011, Cleveland, OH.
- AAOMS Dental Implant Conference: Digital Dentistry; Moderator, 2 December 2011, Chicago, IL.
- Greenbriar Study Club. Antimicrobial therapy of head and neck infections. Berea, OH. 10 January 2012.
- William Beaumont Army Medical Center OMFS residency consultant visit. Topics BRONJ, Complications, Oral Cancer, Local and Regional Flaps, Parotid Gland Surgery, Case Discussions. 12-13 January 2012, El Paso TX.
- The Pectoralis Major Flap, cadaver dissection. Metrohealth Medical Center OMFS Department, 31 January 2012, Cleveland, OH.
- ABOMS Scientific Seminar. The Karapandzic Flap. 6 February 2012, Dallas, TX.

### Faisal A. Quereshy, MD, DDS, FACS

- Egyptian Dental Association: The 15<sup>th</sup> International Dental Congress – Future Trends in Dentistry “Orthognathic Surgery Update in the USA” Cairo, Egypt. 2 hours. 10-27-11
- Egyptian Dental Association: The 15<sup>th</sup> International Dental Congress – Future Trends in Dentistry “Facial Cosmetic Surgery” Cairo, Egypt. 2 hours. 10-26-11
- AAOMS 93<sup>rd</sup> Annual Meeting and Scientific Sessions: Moderator Session “3D Facelift: a paradigm shift in facial rejuvenation” Philadelphia, PA (2 hours) 09-17-11
- AAOMS 93<sup>rd</sup> Annual Meeting and Scientific Sessions: “Contemporary Rhinoplasty for the OMS” Philadelphia, PA (2 hours) 09-16-11
- OAIDT “OMS Practice Marketing and Systems” (Faisal A. Quereshy) Papandreas Orthodontics (3 hours CEU) 03-09-11
- Society of Interdisciplinary Dental Medicine: “Orthognathic Surgery Diagnosis and Treatment Planning”. Bath, OH. 2.0 CE 03-09-11
- “Orthognathic Surgery Update 2011” Annual Tri-State Dental Medical Conference, Boyne Highlands, MI. 01-16 to 01-21-11
- Moderator: American Academy of Cosmetic Surgery Pre-Conference Symposium: “Facial Cosmetic Surgery – A Clinical Debate” Phoenix, AZ. 01-12-11

## RESEARCH

### Dale A. Baur, DDS

- Pathway of the Marginal Mandibular Branch of the Facial Nerve in Relationship to the Mandible: A Cadaver Study.
- Distance Between Articular Eminence and Foramen Spinosum, Foramen Spinosum and Petrotympenic Fissure; An Anatomic Landmark Study on Dry Skulls.

### Faisal A. Quereshy, MD, DDS, FACS

- IRB Protocol #: 20120112 Title: The Use of Cone Beam Computer Tomography to Volumetrically Assess Buccal Bone Defects, Feb 2012-2013.  
PI: Faisal A. Quereshy, MD, DDS, FACS; Co-Investigator: Yeliz Kilinc
- IRB Protocol #: 20120111 Title: Assessing the bone quality of grafted vs. non-grafted extraction sites with Cone Beam Computer Tomography Imaging, Feb 2012 – 2013.  
PI: Faisal A. Quereshy, MD, DDS, FACS Co-Investigator: Tyman Loveless
- Measuring Cross Sectional Airway Surface Area Using Cone Beam Computed Technology (pre-study data collection). PI: Faisal A. Quereshy, MD, DDS, FACS (Williams, Baur, Rollins, Demko), January 2010.

## AWARDS/HONORS

### Faisal A. Quereshy, MD, DDS, FACS

- Case 2010 Research Showcase: 1st Place Award: Quereshy FA, Barnum G, Jannuzzi J, Demko C, Horan M, Palomo M, "Utilization of Cone Beam CT Imaging To Volumetrically Assess Alveolar Cleft Defects" (AAOMS 91st Annual Meeting, Toronto, ON, Canada) - winner of poster contest.

### John Blakemore DDS

- Excellence in teaching award, 2011

## PROFESSIONAL AFFILIATIONS

### Faisal A. Quereshy MD, DDS, FACS

American Association of Oral and Maxillofacial Surgery:

- 2010-2011: Continuing Education Committee member  
Co-Chairman - Clinical Interest Group : Facial Cosmetic Surgery

American Board of Oral and Maxillofacial Surgery

- Board examiner ABOMS (accepted 4-2010) (6-year term)

American Academy of Cosmetic Surgery

- Board of Trustee 2010 – 2011
- Education Committee member (2009-2010)
- Co-Chair, Annual Meeting Scientific Sessions 2010 (Orlando, FL)
- Fellowship Training Committee member (2006-2010)
- Member: Richard Webster Honor Society (2002 - present)
- Innovator Donor: Cosmetic Surgery Foundation
- Cosmetic Surgery Foundation committee member (2008 - present)
- Silent Auction Committee





American Journal of Cosmetic Surgery (AJCS)

- Section Editor (2-09 – present)

American Board of Cosmetic Surgery (ABCS)

- Executive Board of Director
  - Secretary (2009-2012)
- Board of Trustee (11-2007 – present)
- Chairman of Oral Board Examinations (04-10 – present)
  - Oral protocol examination committee (2007-2010)
  - By-Laws committee (2007)
  - Fellowship Review Committee (Chairman – 2009-present)

Ohio Dental Association (ODA) (State – member)

- Dental Education and Licensure Committee (2009-2011)

American Dental Society of Anesthesiology (ADSA)

- Fellow Member

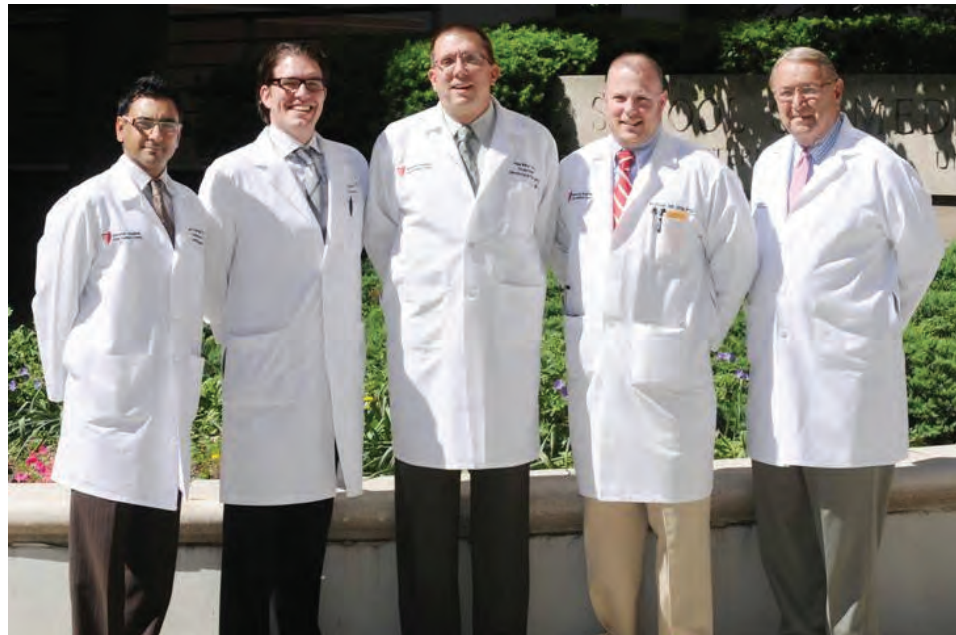
National Dental Board of Anesthesiology (NDBA)

- Diplomate

American Medical Association: member # 03806971439

American College of Oral and Maxillofacial Surgeons

- Member # 7119 American Society of Maxillofacial Surgeons
- Member #64501 Ohio Society of Oral and Maxillofacial Surgeons
- Member Institute of Dental Implant Awareness
- Charter Member
- Implant Industry Standards Committee member Case Western Reserve University
- Faculty Senator



## PROFESSIONAL MEETINGS

### Faisal A. Quereshy MD, DDS, FACS

- American Academy of Cosmetic Surgery Pre-Conference Symposium: "Facial Cosmetic Surgery – A Clinical Debate" Phoenix, AZ Cat 1 4.0 hrs. 01-12-11
- AACS 27<sup>th</sup> Anniversary Scientific Meeting "Beyond Skin Deep" Phoenix, AZ (17 AMA Cat I credits). 01-13 to 01-16-11
- Annual Tri-State Dental Medical Conference, Boyne Highlands, Michigan (5 hours CEU OSDB). 01-17 to 01-20-11
- American Board of Oral & Maxillofacial Surgery: Oral Calibration and Delivery of Examination. Dallas, TX (36.5 hours CME AMA Cat I). 02-12 to 02-17-2011
- OAIDT "OMS Practice Marketing and Systems" (Faisal A. Quereshy) Middleburg Heights, OH (1 hours CEU). 03-09-11
- Society of Interdisciplinary Dental Medicine: "Orthognathic Surgery Diagnosis and Treatment Planning". Bath, OH. 2.0 CE. 03-09-11
- Nobel Biocare USA LLC: "Optimal Treatment Solution for Edentulous Patients Using the All-on-4 Treatment Concept." Dr. Ken Parrish, Yorba Linda, CA. 6 hours CEU ADA. 06-18-11
- Dentsply International: "Implant Summit by the Sea" Naples, FL. (10 hours CE). 06-23 to 06-26-2011
- Spear Education (sponsor code 219029): "Interdisciplinary Treatment Planning" (Steve Ratcliff, DDS, MS) Medina, Ohio, 3 hours AGD. 08-24-11
- AAOMS 93<sup>rd</sup> Annual Scientific Meeting and Sessions. Philadelphia, PA. 22 hours Cat I AMA, ADA. 09-12 to 09-17-11
- Spear Education (sponsor code 219029): "Interdisciplinary Treatment Planning" (Steve Ratcliff, DDS, MS) Medina, Ohio, 3 hours AGD. 09-22-11
- Medina County Dental Society: "Treatment of Medically Compromised Patients in a Dental Office" (Dr Anita Aminosharieae) 1.5 hours CEU OSDB. 09-28-11
- Greater Cleveland Dental Society: "Ethics in Dentstry" (Dr. Shannon French) Cleveland, OH 1 hour CEU. 10-3-11
- Spear Education (sponsor code 219029): "Interdisciplinary Treatment Planning" (Steve Ratcliff, DDS, MS) Medina, Ohio, 3 hours AGD. 10-19-11
- Spear Education (sponsor code 219029): "Interdisciplinary Treatment Planning" (Steve Ratcliff, DDS, MS) Medina, Ohio, 3 hours AGD. 11-02-11
- "School of Dental Medicine – Faculty Retreat" (Dr. Andrew Schenkel) Case Western Reserve University, Cleveland, OH; 3 hours CEU. 11-21-11
- American Board of Oral & Maxillofacial Surgery (ABOMS): 2011 Recertification Examination Process. Chicago, IL. 60 hours Cat 2. 10-2011

**Division Chief**

Edward M. Barksdale, Jr., MD

**Faculty/Staff**

Scott C. Boulanger, MD

Anthony L. DeRoss, MD

Todd Ponsky, MD





The Division of Pediatric Surgery currently comprises four, full-time academic faculty and provides complete consultative and surgical services for all children at Rainbow Babies and Children’s Hospital (RB&C). These services include all general and thoracic surgical conditions: congenital anomalies, pediatric solid tumors, complex gastrointestinal problems (esophageal disorders, biliary tract diseases, inflammatory bowel disease, Hirschsprung’s disease/bowel motility disorders, etc.) and chest wall deformities. A major percentage of these procedures are being approached using advanced minimally invasive surgical technologies.

The faculty sees office consults and performs outpatient surgery in a variety of easily accessible community venues. Office hours are conducted weekly at the UHHS Landerbrook, Westlake, Twinsburg and Mentor facilities and bimonthly at the south side Medina location. Ambulatory surgery in appropriate patients is conducted off the main campus at the UH Zeeba Ambulatory Surgery Center, UH Ahuja Medical Center, UH Westlake facility, and Southwest General Hospital.

The Division also provides comprehensive services and coverage for the only ACS-certified Level One Pediatric Trauma Center in northeast Ohio. Dr. Anthony DeRoss serves as the Director of Rainbow’s Trauma Center. The annual volume of trauma admissions has averaged approximately 425 per year since the Center’s inception in 1998. In February 2012, the RB&C Pediatric Trauma Program was re-verified by the American College of Surgeons Committee on Trauma and maintained its certification as a Level I Pediatric Trauma Center. RB&C is one of only three such pediatric trauma centers in Ohio.

In summary, the Division provides comprehensive inpatient and outpatient services for all neonatal and pediatric general and thoracic surgical patients at Rainbow Babies and Children’s Hospital. The Division also provides 24-7 coverage for the institution’s emergency department and Trauma Program. The Division performed about 1,500 cases

in 2011 at Rainbow. In pursuit of growth, several initiatives in the Division are ongoing. These initiatives, which are outlined below, include the academic and community service development of full-time faculty, creation of opportunities for remote post-graduate continuing medical education, the cultivation of several new clinical programs, and the establishment of a Pediatric Surgery Fellowship Program.

**STAFF/FACULTY**

**Edward M. Barksdale, Jr., MD**

Robert J. Izant, Jr. MD Professor of Surgery and Pediatrics, Surgeon in Chief, Chief of the Division of Pediatric Surgery, Rainbow Babies and Children’s Hospital, Vice Chairman of Surgery, Case Medical Center.

**Scott C. Boulanger, MD**

Assistant Professor of Surgery and Pediatrics, Director of the Minimally Invasive Surgery Program, Rainbow Babies and Children’s Hospital.

**Anthony L. DeRoss, MD**

Assistant Professor of Surgery and Pediatrics, Chief of Pediatric Trauma, Rainbow Babies & Children’s Hospital.





**Todd Ponsky, MD**

Associate Professor of Surgery and Pediatrics,  
Director of Minimally Invasive Surgery Center,  
Rainbow Babies and Children's Hospital.

**SECONDARY APPOINTMENTS**

All four faculty members have secondary appointments in the Department of Pediatrics at Rainbow Babies and Children's Hospital.

**DIVISION EDUCATION**

Education is an important component of the Divisional activities and mission, beginning with daily attending-led rounds at 6:00 am. Informal teaching is based on the current in-patient combined with one-on-one technical training in the operating room. A more formal power point presentation is given by an individual on a topic from our core curriculum during our weekly conference (Friday). In addition to resident education, the faculty also deliver a three-hour survey lecture to third-year medical students once every six weeks. Annually, a member of the group gives an applied embryology lecture to first-year medical students. Formal teaching within the Division takes place primarily through a weekly series of didactic activities on Wednesdays. Patient Quality and Outcome Conference (Mortality and Morbidity Rounds) alternating with a Patient Management Conference occurs every Wednesday morning. On Wednesday afternoon, the main Divisional conferences occur including Surgery/Radiology/Pathology conferences, Pediatric Surgery Grand Rounds and the Multidisciplinary (with either Gastroenterology, Neonatology or Pulmonology) Conferences. This is a formal Case Medical School conference and offers category 1 CME credit.

In addition to general pediatric surgery education, Dr. DeRoss is an Advanced Trauma Life Support-certified instructor and course director. He participates in two annual regional ATLS courses each year. One is administered through the Rainbow Trauma Program and is held on the UHCMC campus. The other is given at MetroHealth through their Level One Adult Trauma Program. Through these programs, the majority of categorical Case Surgery residents receive their ATLS certification.

**DIVISION RESEARCH**

- Optimal caloric repletion during acute metabolic stress in infants
- Large animal laboratory for development of novel minimally invasive surgery techniques
- The neonatal effects of gestational obesity
- Trauma and injury prevention

**PATIENT CARE WITHIN DIVISION**

The manner in which in-patient care is delivered within the Division has been modified in an effort to provide greater continuity, access and service. The Division has transitioned to a "Surgeon of the Week" system in which one individual will be responsible for all of the in-patient care from 6:00 am until 5:00 pm. This individual will round with residents on the floor and NICU/ICU, be available to speak with parents, see consults timely and make dynamic decisions with the consulting primary services. He will also be available for all daytime emergencies and add-on cases and perform all urgent outpatient consults. The responsibility of the Surgeon of the Week or primary attending surgeon is to work in concert with the resident team, three Certified Pediatric Nurse Practitioners, and a variety of related pediatric and surgical subspecialties (e.g. neonatology, pediatric critical care, gastroenterology, etc.) to provide coordinated family-centered care. This new system has been well received by staff and faculty. Nurse practitioners provide extended coverage of the service for 16 hours a day, Monday through Friday and for 24 hour on-call coverage Saturday and Sunday.

**HOSPITAL SERVICE**

The Division has been energetic in its efforts to improve quality of care at Rainbow Babies and Children's Hospital and University Hospitals. Dr. Todd Ponsky has pioneered the development of the Minimally Invasive Center at Rainbow which combines innovative technical, novel research and "high touch" approaches to pediatric surgery. This multi-disciplinary center includes efforts from each of the various surgical subspecialties and is designed to take a broad view of making surgery "minimally invasive" for the patient and family. All faculty members serve on various hospital committees

ranging from quality and safety, operating room services, trauma and other areas.

**COMMUNITY SERVICE**

The Division (and hospital) remains actively engaged in diverse community service endeavors through the development of strategic relationships with a variety of community partners, including members of the public school system, city government, law enforcement and emergency medical services, to further the mission of improving health and health care for children in Northeast Ohio. The burgeoning epidemic of urban violence that so tightly grips Cleveland and Northeast Ohio has led to a unique partnership between RB&C/UHCMC, the mayor’s office and local law enforcement. Dr. Barksdale, along with Cleveland Mayor Frank Jackson and Cleveland Chief of Police Michael McGrath, have collaborated as the three Co-Chairmen to form Project FOCUS. This publicly supported effort is a multidimensional endeavor to thwart gang-related urban violence by offering social service (employment and educational opportunities) alternatives to stiff law enforcement efforts.

Collaborations have also been developed with Case Western Reserve University School of Public Health to study injury patterns in Amish children and young adults in Northeast Ohio. These efforts have resulted in the cultivation of a partnership with family practitioners and nurses at Geauga Hospitals, Elders in the Amish community and the schools to develop culturally sensitive injury prevention programs, to both decrease the disparities in injury and outcomes. Drs. Boulanger, DeRoss and Ponsky are actively involved in mentoring programs in various public schools in the area.

**DIVISION GOALS**

**Expansion of Clinical Services**

The addition of new faculty has facilitated plans for broad clinical outreach within the Metropolitan Cleveland area and Northeast Ohio. In addition to new outpatient satellite office hours at Medina, the frequency of office hours has increased at the Westlake, Twinsburg and Mentor offices. New agreements between University Hospitals and

the Sisters of Mercy have resulted in St. John’s Westshore becoming a member of the UH System and there is immense anticipation of the development of further expansion of pediatric surgical services in the western suburbs. Efforts to more efficiently and strategically deploy faculty to other locations within the region are planned according to both community demand and institutional goals. The Division projects continued surgical volume growth at Rainbow and the UH affiliates. In addition, the opening of the new UH Ahuja Medical Center has allowed another access point for pediatric outpatient surgical care. This will be another site of further practice expansion for the group.



### **Refinement of Established Multidisciplinary Programs**

Established multidisciplinary clinical programs, such as Trauma and emerging programs in Minimally Invasive Surgery, Maternal-Fetal Diagnosis and Treatment and Inflammatory Bowel Disease, will be areas of greater development and refinement in 2011. Funding from the Cleveland Foundation has provided critical support to build and mature a clinical center of excellence in Pediatric Minimally Invasive Surgery to programmatically coordinate advances in general and thoracic Pediatric Surgery with neurosurgery, orthopedics and other pediatric surgical subspecialties. The strategic faculty recruitment of Dr. Anthony DeRoss in 2010, who has a special interest in Pediatric Trauma and Injury Prevention, in conjunction with the skills of existing faculty, have facilitated the development of this program. Finally, the construction of a new state-of-the-art Neonatal Intensive Care Unit at Rainbow in the Spring of 2009 and the recently completed recruitment of a new Division Chief of Perinatology at McDonald's Women's Hospital will facilitate the development of an interdisciplinary fetal diagnosis and treatment center. This will likely increase our regional referrals of infants with complex congenital anomalies and serve to help us establish our institution as a destination point in the region for the care these mothers, infants and their families.

### **Establish New Investigative Programs in Pediatric Surgery**

The addition of new faculty has now created a critical mass of individuals who can pursue areas of academic interest in concert with their clinical activities. The recent establishment of the Minimally Invasive Program and development of the Pediatric Surgery Database have converged to provide critical infrastructure for the emergence of the clinical research program for the Division. The Pediatric Surgery Database will allow the Division to prospectively record cases and follow outcomes. This data may be repurposed for multiple other uses within both research and quality assurance. Consequently, there has been a remarkable increase in the number of publications from the group. The group will pursue corporate objectives toward continued development of clinical research objectives

in minimally invasive surgery, injury prevention and nutrition in the critically ill neonate and child, with a concerted focus on increasing publication productivity, increasing presence at national meetings, and pursuit of extramural support.

### **Commitment to Undergraduate and Graduate Medical Education**

The Division is widely recognized for its commitment to the education at all levels of undergraduate, graduate and post-graduate medical education. We remain committed to sustaining the efforts needed to improve medical student and resident education. Dr. Barksdale was invited by the Dean's office to deliver the opening lecture to the First Year Medical Students this year, which he entitled "Through the Looking Glass: In the Flick of a Switch," which provocatively challenged the students to see themselves differently as they transition into a life-long career in medicine. Several investigational studies and projects by students and residents have been proctored and successfully published or presented at national meetings. Furthermore, we endeavor to codify interests and efforts in graduate medical education in pediatric surgery. A series of novel educational courses including: "Pediatric Hernia," "Single Site Surgery," "Pediatric Gynecologic Disease," and "Gastroesophageal Reflux Disease in Children" presented this year and in the future offer opportunities to leverage innovative web-based technologies to provide on-site and remote educational opportunities for post-graduate medical education.

### **Constructive Community Engagement**

Ongoing vigorous efforts will continue to refine and extend the activities by all Division members in various community service endeavors throughout Northeast Ohio.

## GRANTS

**Title of Project:** Nutrition in Pediatric Surgical Critical Care & Trauma

**Principal Investigator:** Edward M. Barksdale, Jr. MD

**Sponsor:** S. K. Wellman Foundation

**Funding Amount:** \$20,000

**Title of Project:** Long-Gap Pure Esophageal Atresia: Development of a Survival Rabbit Model and Minimally Invasive Repair Techniques

**Principal Investigator:** Todd Ponsky, MD

**Sponsor:** International Pediatric Endosurgery Group (IPEG)

**Funding Amount:** \$10,000

## BOOK CHAPTERS

- Barksdale Jr., EM, Chwals, W, Parry R 9th Edition: Fanaroff & Martin's Neonatal-Perinatal Medicine Chapter 47. Part 1: Development and Basic Physiology of the Neonatal Gastrointestinal Tract, London, Elsevier (2011).
- Barksdale Jr., EM, Chwals, W, Parry R 9th Edition: Fanaroff & Martin's Neonatal-Perinatal Medicine Chapter 47. Part 3: Selected Gastrointestinal Anomalies, London, Elsevier (2011).
- Ponsky TA, Newman KD: Complications of Splenectomy. Complications in Pediatric Surgery: An Individual and Systems Approach. Caty MG, Haynes J, Levitt M, Glick PL (eds.), Informa Healthcare. (2011).
- Khosla A, Ponsky TA, Rothenberg SS: Pediatrics: Management of Malignant Disorders: Minimal Invasive Surgical Oncology-State of the art cancer management. Matteotti RS, Becker JM, Ashley SW (eds.) (2011).

## VISITING PROFESSORSHIPS/INVITED LECTURES

- Edward M. Barksdale, Jr., M.D., "The Public Health and Economic Impact of Youth Violence on Our Community," Healthy Cleveland Initiative, The Boys and Girls Club of Cleveland, Cleveland, Ohio, November 18, 2011
- Edward M. Barksdale, Jr., M.D., "Youth on Youth Violence and its Impact on Our Communities" The Sound of Ideas, 90.3 WCPN Idea Center, Cleveland, Ohio November 14, 2011
- Edward M. Barksdale, Jr., M.D., "Miles to Go Before I Rest: A Pediatric Surgeon's Perspective on Pain" Pediatric Pain Symposium, Rainbow Babies & Children's Hospital, Cleveland, Ohio, September 30, 2011
- Edward M. Barksdale, Jr., M.D., "The Importance of Preventing Violence: A Pediatric Trauma Surgeon's Experience" Cuyahoga County's Defending Childhood Conference, Cleveland, Ohio, September 23, 2011
- Edward M. Barksdale, Jr., M.D., "Decreasing Injury Related Trauma Our Mission Children Age 0-16 Years in Northeastern Ohio", 12<sup>th</sup> Annual Pediatric Trauma Conference, Every Ohio Child – the Right Care at the Right Time for Trauma" Warrensville Heights, Ohio, September 16, 2011
- Edward M. Barksdale, Jr., M.D., "Through the Looking Glass: In the Flick of a Switch; Welcome Address [1<sup>st</sup> year students], Case Western Reserve University Medical School, Cleveland, Ohio, July 7, 2011
- Edward M. Barksdale, Jr., M.D., "Beyond All Measures," Scientific Enrichment and Opportunity Program, Case Western Reserve University School of Medicine, Cleveland, Ohio June 13, 2011
- Edward M. Barksdale, Jr., M.D., "A Brave New World", Student National Medical Association Graduation Celebration Brunch Case Western Reserve University, School of Medicine, Cleveland Clinic Lerner College of Medicine, Cleveland, Ohio, May 14, 2011
- Edward M. Barksdale, Jr., M.D., "Surgery: The Neglected Step – Child in Health" 6<sup>o</sup> of Separation: Focus on Global Health Obstetric & Gynecology Alumni Day, University Hospitals, McDonald Women's Hospital, Cleveland, Ohio, May 13, 2011
- Edward M. Barksdale, Jr., M.D., "Abdominal Pain in Children and Adolescence" 55<sup>th</sup> Annual Greenville Postgraduate Seminar, Greenville, South Carolina April 13, 2011
- Edward M. Barksdale, Jr., M.D., "Personal Reflections on Career Path"
- Massachusetts General Hospital, Multicultural Affairs Office, First Alumni Reunion, February 12, 2011



- Anthony L. DeRoss, M.D., 12th Annual Pediatric Trauma Symposium, Case West Reserve University School of Medicine/Rainbow Babies & Children's Hospital, Cleveland, OH. Minimally Invasive Surgery – Applications in Trauma. (September 2011)
- Anthony L. DeRoss, M.D., 52nd Annual Meeting of the New England Society of Plastic and Reconstructive Surgeons. Brewster, MA. McIntyre JK (presenter), Danielson P, DeRoss A, Lalikos JF. Cost Analysis of Endoscopic versus Open Removal of Periorbital Dermoid Cysts in Children. 5 minute presentation. (June 2011)
- Anthony L. DeRoss, M.D., Emergency Department Lecture, Department of Emergency Medicine, Seoul National University Hospital; Seoul, South Korea. Pediatric Trauma - Patient Management and Trauma Systems in the USA. (April 2011)
- Anthony L. DeRoss, M.D., Case Presentation - Interstitial Pulmonary Emphysema. 2nd Annual Tricks of the Trade & Difficult Cases In Pediatric Surgery Interactive Web Symposium. Invited faculty member and discussion panelist. (March 2011)
- Todd A. Ponsky, M.D., COURSE DIRECTOR: State-of-the-Art of Pediatric Minimally Invasive Surgery Symposium, International Web Symposium, Rocky Mountain Hospital for Children and Case Western Reserve University, 01/19/2011-01/20/2011
- Todd A. Ponsky, M.D., Course Faculty: State-of-the-Art of Pediatric Minimally Invasive Surgery Symposium, International Web Symposium: Rocky Mountain Hospital for Children, 01/19/2011-01/23/2011
- Todd A. Ponsky, M.D., Online Interactive Symposium: The New Paradigm in Clinical Education from a Physicians Perspective. Device and Diagnostic Clinical Training and Education Conference. Dallas, TX, 2/28/2011
- Todd A. Ponsky, M.D., Course Faculty: Advances in Minimally Invasive Surgery 2011. Marco Island, 2/18/2011 – 2/20/2011
- Todd A. Ponsky, M.D., Adolescent Inguinal Hernia Repair. Adolescent Surgery Session. Society of American Gastrointestinal Endoscopic Surgeons (SAGES), San Antonio, TX, 4/2/2011
- Todd A. Ponsky, M.D., Course Faculty: Senior Pediatric Surgery Fellow's Course in Advanced Laparoscopy, Columbia University Medical Center, 04/16-17/2011
- Todd A. Ponsky, M.D., COURSE CHAIR: Advanced Endoscopic Simulator Hands On Course, International Pediatric Endosurgery Group (IPEG), Prague, Czech Republic, 05/4/2011
- Todd A. Ponsky, M.D., Panelist: "Ethics of Innovation". Emerging Technology Session. International Pediatric Endosurgery Group. Prague, Czech Republic, 5/5/2011
- Todd A. Ponsky, M.D., Panelist: "In Terms of Education". Quo Vadis IPEG Session. International Pediatric Endosurgery Group. Prague, Czech Republic, 5/7/2011
- Todd A. Ponsky, M.D., Virtual Medical Education. OBGYN Grand Rounds. Case Western Reserve University, University Hospitals. 5/13/2011
- Todd A. Ponsky, M.D., Course Faculty: Single Port Surgery in Children. Reduced Port Surgery Group. Philadelphia, PA, June 6-7, 2011
- Todd A. Ponsky, M.D., INVITED KEYNOTE SPEAKER: Minimally Invasive Emergency Surgery. Japanese Society of Emergency Physicians. Tokyo, Japan, June 9-15, 2011
- Todd A. Ponsky, M.D., INTERNATIONAL COURSE FACULTY: Single Port Laparoscopy in Children, Centro de Entrenamiento e Investigación de Cirugía Laparoscópica y Mini Invasiva de la Facultad de Medicina de la Universidad Nacional del Nordeste, Corrientes, Argentina, 2012
- Todd A. Ponsky, M.D., INTERNATIONAL COURSE FACULTY: IRDC Academy, Universitat Leipzig, International Training Course for Single Port Surgery in Pediatrics, Leipzig, Germany, October 6-9, 2011
- Todd A. Ponsky, M.D., Panelist, Pediatric Surgery Video Session, American College of Surgeons Annual Clinical Congress, October 23-27
- Todd A. Ponsky, M.D., INTERNATIONAL FACULTY: IX Congreso de Cirugía Pediátrica del ConoSur de América - CIPESUR Punta Del Este, Uruguay, November 14-19, 2011

- Todd A. Ponsky, M.D., Blatnik JA, Harth KC, Krpata DM, Kelly KB, Schomisch SJ, Ponsky TA. Stitch vs. Scar, Evaluation of Laparoscopic Pediatric Inguinal Hernia Repair in a Rabbit Model. IPEG, 20<sup>th</sup> Annual Congress, Prague, Czech Republic, 2011
- Todd A. Ponsky, M.D., Kanters A, Ponsky TA. Evaluation of Web-based Seminars as a Means of Continuing Medical Education, IPEG, Czech Republic, 2011

## PUBLICATIONS

- Onders RP, Ponsky TA, Elmo M, Lidsky K, Barksdale E. J First reported experience with intramuscular diaphragm pacing in replacing positive pressure mechanical ventilators in children. *Pediatr Surg*. 2011 Jan;46(1):72-6.
- Burr A, Renaud EJ, Cooley E, Makris J, Manno M, DeRoss AL, Hirsh MP. Glowing in the dark: time of day as a determinant of radiographic imaging in the evaluation of abdominal pain in children. *J Pediatr Surg*. 2011 Jan; 46: 188-191.
- Ponsky TA, Krpata D. Single-port laparoscopy: Considerations in children. *J Minim Access Surg*. 2011 Jan;7(1):96-8.
- Khosla A, Ponsky TA. Use of operative laparoscopes in single-port surgery: The forgotten tool. *J Minim Access Surg*. 2011 Jan;7(1):116-20.
- Chepla KJ, Armijo BS, Ponsky TA, Soltanian HT. Benefits of immediate dermoglandular preserving reconstruction following giant fibroadenoma excision in two patients. *J Plast Reconstr Aesthet Surg*. 2011 Sep;64(9):e244-7. Epub 2011 Apr 29.
- Krpata DM, Ponsky TA. Instrumentation and equipment for single-site umbilical laparoscopic surgery. *Semin Pediatr Surg*. 2011 Nov;20(4):190-5.

## AWARDS AND RECOGNITION

### Edward M. Barksdale, Jr., MD

- America's Top Surgeons
- Best Doctors in America
- Board Examiner American Board of Surgery (General Surgery)
- Board Examiner American Board of Surgery (Pediatric Surgery)
- Commissioner Accreditation Review Commission on Education for the Physician Assistant
- Living Legends Honoree: "Spotlight on Fathers"
- Cleveland Magazine Best Docs
- Who's Who in Black Cleveland

### Todd Ponsky, MD

- Association for Academic Surgery (AAS), Membership Committee, American Pediatric Surgery Association (APSA), Informatics Committee



**Division Chief**  
Julian Kim, MD

**Faculty**

John Ammori, MD  
Jeffrey Hardacre, MD  
Rosemary Leeming, MD  
Marjie Persons, MD  
Robert R. Shenk, MD  
Jerry M. Shuck, MD, D.Sc.  
Scott M. Wilhelm, MD





The Division of Surgical Oncology continues to expand services and to contribute to the academic mission of the Department of Surgery at UHCMC. Dr. Julian Kim was named Chief Medical Officer of the UH Seidman Cancer Center and will be stepping down as Case Surgery Program Director in July 2012. Dr. Jerry Shuck continues to serve as the Designated Institutional Official for the Graduate Medical Education programs at University Hospitals, and Dr. Marjie Persons manages the medical student educational initiatives for the Department of Surgery. Dr. Robert Shenk has been actively involved in the programmatic development of breast services throughout the system. Dr. Rosemary Leeming was named Chief Medical Officer of the UH Richmond Medical Center and is currently working towards an M.S. in Health Care Management from the Harvard School of Public Health. Dr. Jeffrey Hardacre continues to assume a leadership role on a national Phase III randomized trial of an adjuvant pancreatic cancer vaccine. Dr. Scott Wilhelm is current President of the Cleveland Surgical Society. Finally, the Division has successfully recruited Dr. John Ammori to join the group in July 2011 after completing his fellowship in Surgical Oncology at Memorial Sloan Kettering Cancer Center in New York, New York.

The genesis of the Division of Surgical Oncology was an institutional initiative which aimed to formalize and expand Surgical Oncology services in anticipation of the construction of a free-standing, state-of-the-art cancer hospital. The UH Seidman Cancer Center opened in June 2011 and represents one of only two NCI-designated comprehensive cancer centers in Ohio and the only in Northern Ohio. The Division of Surgical Oncology is comprised of surgeons who have focused their clinical and research activities primarily in areas relating to cancer or endocrine neoplasia. The members of the Division of Surgical Oncology all serve as staff surgeons on the Lenhart teaching service at UHCMC, which facilitates group interactions with respect to patient care, research and teaching. All members of the Division are mentioned in Castle and Conolly's Top Doctors either as leaders on the regional or national level.

### DIVISION PATIENT CARE

The clinical activities of Surgical Oncology within the Department of Surgery and UH Seidman Cancer Center demonstrated excellent growth over the past year. Dr. Robert Shenk, Dr. Rosemary Leeming and Dr. Marjie Persons have been instrumental in growing the Breast Program into one of the leading





multidisciplinary groups within the UH Seidman Cancer Center. Dr. Scott Wilhelm has developed comprehensive programs in endocrine surgery, including minimally invasive approaches to tumors of the parathyroid, adrenal and pancreas. Dr. Jeffrey Hardacre leads malignant biliary and pancreatic surgery. Finally, Dr. Julian Kim brings expertise in the areas of gastrointestinal and retroperitoneal malignancies, as well as melanoma. Dr. John Ammori is adding programmatic development in the areas of pancreatic and hepatobiliary malignancies as well as intraperitoneal hyperthermic perfusion with chemotherapy. The broad range of expertise in a variety of disease types makes the Division of Surgical Oncology a strong partner to members of the Department of Surgery as well as the UH Seidman Cancer Center in establishing standards for the multidisciplinary care of patients with cancer.

### DIVISION EDUCATION

The Division of Surgical Oncology also plays an important role in the education and training of medical students and surgical residents. A coordinated curriculum is being established for students and residents rotating on the Lenhart surgical service which provides education on the multidisciplinary management of patients with cancer. Students and residents are required to attend multidisciplinary tumor board conferences as well as a new lecture series based upon case presentations in order to compliment the education in the outpatient clinics, hospital inpatient floors and operating rooms. Three members of the Division have leadership roles within the educational structure at Case. Dr. Julian Kim is currently the Surgical Residency Program Director for Case Surgery. Dr. Marjie Persons is the Medical Student Clerkship Coordinator for the Department of Surgery at UHCMC. She directs the student rotations, coordinates lectures and serves as the physician liaison to the School of Medicine in issues regarding curriculum. Dr. Jerry Shuck is past chairman of the CWRU Department of Surgery and is the current Director of Graduate Medical Education at UHCMC. In this capacity, Dr. Shuck oversees all graduate medical programs and is the primary liaison to the ACGME.

### DIVISION RESEARCH

Research activities within the Division of Surgical Oncology span clinical, translational and basic and are funded from a variety of sources including the National Institutes of Health, cooperative oncology groups such as NSABP, and industry. Extramural grant support within the Division ranks as one of the highest within the Department of Surgery. Dr. Julian Kim is the principal investigator of an NIH award which aims to develop novel methods of adoptive immunotherapy of cancer using T cell receptor molecular signatures. The data from this NIH study is currently being used to develop a Phase I study of adoptive immunotherapy of patients with metastatic melanoma. Preclinical mouse studies are also being conducted within the Kim lab on regulation of macrophages as a cancer therapy using the development of nanoparticles to target tumor-associated macrophages for therapy and imaging. Dr. Jeffrey Hardacre is principal investigator on a Phase II study evaluating a novel hyperacute pancreatic cancer vaccine in patients with resected pancreatic cancer, and he will serve as the national principal investigator in the planned Phase III pivotal FDA registration trial. Dr. Robert Shenk is a co-investigator on an NIH grant in collaboration with the Department of Human Genetics and has teamed with Dr. Janice Lyons in the Department of Radiation Oncology to develop methods of partial breast irradiation. Dr. Rosemary Leeming is the institutional principal investigator and oversees all NSABP studies in patients with breast and colorectal cancers, which constitutes a significant proportion of all clinical trial activity within the UH Seidman Cancer Center. Dr. John Ammori has competed for and received an institutional NIH K12 career development award for work examining T cells responses in draining lymph nodes in patients with pancreatic cancer which will commence July 2012.

**STAFF/FACULTY**

**PROFESSOR**

**Jerry M. Shuck, MD, D.Sc.**

Dr. Shuck is a Professor of Surgery and has been a member of the UHCMC staff since 1980 when he was recruited from the University of New Mexico to serve as Chairman of the Department of Surgery, a position he held until 2000. He is a graduate of the University of Cincinnati College of Medicine where he also completed a Doctoral Thesis to attain the D.Sc. degree. He completed a General Rotating Internship at the University of Colorado Medical Center and a General and Thoracic Surgery Residency at the University of Cincinnati. Previously he served on the Residency Review Committee for Surgery (1994-2000) as well as Vice Chairman of the RRC for Surgery (1997-2000). He was a Director of the American Board of Surgery (1986-1994) and Chairman of the ABS (1993-1994). Dr. Shuck is a member of numerous professional organizations; in addition to a myriad of committee assignments, he has also served as President of the Cleveland Surgical Society (1988-1989) and President of the Central Surgical Association (1996-1997). He currently continues his clinical practice in General and Endocrine Surgery as well as serving as Associate Dean of Graduate Medical Education for CWRU and Director of UHCMC Graduate Medical Education. He has published over 130 manuscripts and book chapters.

**Julian Kim, MD**

Dr. Kim is the Charles A. Hubay Professor of Surgery and Chief, Division of Surgical Oncology. He is currently Chief Medical Officer of the new UH Seidman Cancer Center. He has served as Program Director of Surgery, Case Integrated Hospitals for the past three years. Dr. Kim received his training in General Surgery at the University of Maryland Hospitals in Baltimore, Maryland and completed an SSO-approved fellowship at the Arthur G. James Cancer Hospital at the Ohio State University in 1994. He was Assistant Professor of Surgery within the Division of Surgical Oncology at Ohio State until 1999 and was recruited to the Cleveland Clinic Foundation where he served as Associate Professor and Director of the Melanoma Program until 2006. Dr. Kim has a

national reputation in minimally invasive procedures of the breast, including mammary ductoscopy and nipple-sparing mastectomy, and has served as invited speaker and moderator for national meetings of the American Society of Breast Surgeons. He has extensive research experience which includes working in the laboratories of Dr. Pierre Triozzi, Dr. Suyu Shu and Dr. Ernest Borden and has served as principal investigator on over \$3 million of research funding from NIH, Susan G. Komen Foundation and industry sources. He has published over 60 manuscripts and book chapters and holds two U.S. patents on adoptive immunotherapy of cancer.

**ASSOCIATE PROFESSOR**

**Robert R. Shenk, MD**

Dr. Shenk is an Associate Professor of Surgery and Director of the Section of Breast Surgery. Dr. Shenk received his medical degree from CWRU in 1978. From 1978-1980 he was a resident at CWRU Integrated Surgical Residency Program followed by two years as Clinical Fellow at the Immunology Branch, National Cancer Institute (1980-1982). He returned to CWRU to complete his surgical residency training (1982-1985). Post residency, he was a Fellow in Surgical Oncology at MD Anderson Hospital and Tumor Institute in Houston, Texas. Dr. Shenk joined the staff of University Hospitals and faculty of CWRU after completing his Surgical Oncology fellowship in



1987. He has been the American College of Surgeons Cancer Liaison Physician for UHCCM since 1993. He has published over 30 manuscripts and book chapters; his area of expertise is in surgical oncology with a special emphasis on breast cancer, melanoma and sarcoma.

### **Marjie Persons, MD**

Dr. Persons has been a member of the Department of Surgery since 1985. She received her medical degree from SUNY at Syracuse in 1980 after which she completed her surgical residency training at CWRU Integrated Surgery Residency Program (1980-1985). Dr. Persons was promoted to Associate Professor of Surgery in 1997. She has been the Surgical Clerkship Director since 1988. In addition to serving on numerous Departmental, Hospital and Medical School Committees, Dr. Persons has served as Health Frontiers Volunteer Surgical Consultant in Lao Peoples Democratic Republic (1996, 1997). She has been a lecturer and consulting surgeon to the National Cancer Institute, Hanoi, Vietnam (2002). Her area of expertise is in diseases of the breast.

### **Scott M. Wilhelm, MD**

Dr. Wilhelm is an Associate Professor and Director of the Section of Endocrine Surgery. He received his medical degree from University of Cincinnati College of Medicine, (1995). He completed his surgical residency training at CWRU Integrated Surgical Residency Program (1995-2002) where

he was also awarded a position as Dudley P. Allen Surgical Research Scholar (1997-1999), working in the laboratory of Dr. James Schulak. Following completion of his residency, he undertook a Fellowship in Advanced Endocrine Surgery at Rush-Presbyterian, St. Luke's Medical Center under the tutelage of Dr. Richard A. Prinz. Dr. Wilhelm has received numerous awards including the Chicago Surgical Society 2003 Resident/Fellow Award for Surgical Research, the American Society of Transplant Surgery 1998 Young Investigator Award, the Cleveland Surgical Society First Place Basic Science Award (1998), the Ohio Chapter American College of Surgeons (ACS) Best Trauma Paper Award for the Resident Essay Contest (1999), the Ohio Chapter ACS First Place Basic Science Award for the Resident Essay Contest (1999) and the Cleveland Surgical Society Second Place Basic Science Research Award (1999). He has published over 15 manuscripts and book chapters. He currently serves as Clerkship Director for the Clinical Transaction pathway for 3rd year medical students, an NIH sponsored grant being conducted at CWRU School of Medicine. His area of expertise is endocrine surgery, including minimally invasive surgery of the parathyroid, pancreas and adrenal.

### **Jeffrey Hardacre, MD**

Dr. Hardacre is an Associate Professor of Surgery and the Director of the Section of Pancreatic Surgery. He joined the Division and Department of Surgery in 2004 after completing a Flexible Surgical Endoscopy Fellowship at the Cleveland Clinic (2003-2004). Dr. Hardacre received his medical degree from Duke University School of Medicine (1996) and his surgical residency training at The Johns Hopkins Hospital. He received additional training as a Postdoctoral Research Fellow in the Department of Surgery at The Johns Hopkins Hospital (1998-1999), as a Visiting Specialist Registrar in the Department of Surgery at The John Radcliffe Hospital, Oxford, England (7/1/2000-12/31/2000), and Advanced Specialty Training Program in Gastrointestinal Surgery under the direction of Dr. John Cameron at The Johns Hopkins Hospital (2002-2003). His area of expertise is in upper gastrointestinal surgery with special emphasis on pancreatic disease. Dr. Hardacre



served as institutional principal investigator on the clinical trial entitled "A Phase II study of hyperacute pancreatic cancer vaccine in subjects with surgically resected pancreatic cancer" and was the leading physician to accrue patients to this trial nationally. He is the lead author on the abstract highlighting the results of the Phase II study and will serve as national principal investigator on the Phase III FDA registration trial.

**ASSISTANT PROFESSOR  
Rosemary Leeming, MD**

Dr. Leeming is an Assistant Professor of Surgery and the Medical Director of the Chagrin Highlands Breast Center and Chief Medical Officer of UH Richmond Medical Center. She received her medical degree from Hahnemann Medical College in 1983. After one year of Pathology residency at University Hospitals of Cleveland (1983-1984), she entered and completed the surgical residency program at Mt. Sinai Medical Center, Cleveland, Ohio (1984-1989). She complemented her residency training with a fellowship in Diseases of the Breast at NSABP Headquarters, University of Pittsburgh and Shadyside Hospital, Pittsburgh, Pennsylvania under the mentoring of Bernard and Edwin Fisher. She joined the Division and the Department (2001), where she is Medical Director of the Breast Center at University Hospitals Health

Systems at Chagrin Highlands. She is the principal investigator for the NSABP Treatment and Prevention Trials. Dr. Leeming's area of expertise is diseases of the breast and she lectures frequently in the area of the use of gene profiling to personalize adjuvant systemic therapy in patients with breast cancer.

**John Ammori, MD**

Dr. Ammori is Assistant Professor of Surgery and joined the Division in July 2011. He performed both his medical school training and surgical residency training at the University of Michigan. During his surgery residency, he took 2 years as a research fellow in the laboratory of Dr. Michael Mulholland and was extremely productive in the area of regulation of gastrointestinal motility. Dr. Ammori was awarded best teaching resident during his Chief year and then earned a two-year fellowship in Surgical Oncology at Memorial Sloan Kettering Cancer Center in 2009. Dr. Ammori joined Case Surgery immediately after his fellowship and has started to develop a clinical practice in pancreatic and hepatobiliary malignancies as well as intraperitoneal hyperthermic chemoperfusion. He competed for and received an institutional NIH K12 career development award for work examining T cells responses in draining lymph nodes in patients with pancreatic cancer which will commence July 2012.

**RESEARCH GRANTS AND AWARDS**

**Julian Kim, MD**

<b>Funding source</b>	NIH/NCI
<b>Role on project</b>	Principal investigator
<b>Project title</b>	Molecular Analysis of T Cell Clones for Adoptive Therapy
<b>Project period</b>	9/30/06-9/30/12
<b>Award amount (total)</b>	\$672,300

<b>Funding source</b>	Vical Corporation
<b>Role on project</b>	Principal Investigator
<b>Project title</b>	A Phase III Clinical Trial to Evaluate the Safety and Efficacy of Treatment with 2 mg Intralesional Allovectin-7 Compared to Dacarbazine (DTIC) or Temozolomide (TMZ) in Subjects with Recurrent Metastatic Melanoma

<b>Funding source</b>	Neoprobe Corporation
<b>Role on project</b>	Principal Investigator
<b>Project title</b>	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



- America's Top Doctors, Castle and Connolly 2009- present
- America's Top Doctors for Cancer, Castle and Connolly 2009-present

**Rosemary Leeming, MD**

**Funding source** National Surgical Adjuvant Breast and Bowel Project  
**Role on project** Principal Investigator  
**Project title** NSABP studies

**Jeffrey Hardacre, MD**

**Funding source** NewLink Genetics Corp  
**Role on project** Principal Investigator  
**Project title** A Phase 3 Study of Chemotherapy and Chemoradiotherapy with or without HyperAcute®-Pancreatic Cancer Vaccine in Subjects with Surgically Resected Pancreatic Cancer

**Scott Wilhelm, MD**

**Funding source** NIH/NCI R01 (pending)  
**Role on project** Co-investigator (Dean Nakamoto, PI)  
**Project title** Modeling Via MRI for Detecting Thyroid Cancer

**Robert Shenk, MD**

**Funding source** NIH/NCI R21  
**Role on project** Co-Investigator (Louise Acheson, PI)  
**Project title** Evaluation of Genetic Risk Easy Assessment Tool

**Funding source** Case 1104  
**Role on project** Co-Investigator (Maryann Fitzmaurice, PI)  
**Project title** Laser Spectroscopy of Breast Tissue

**Funding source** NIH/NCI R18 (pending)  
**Role on project** Co-investigator (Jason Sohn, PI)  
**Project title** Use of Biometric Patient Identification System Prior to Medical Procedures

**IRB-APPROVED CLINICAL TRIALS**

- "Molecular Analysis of T Cell Clones for Adoptive Therapy" (Kim, PI). Sponsor-NIH/NCI.
- "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" (Kim, PI). Sponsor-Neoprobe Corporation.
- "A Phase III Clinical Trial to Evaluate the Safety and Efficacy of Treatment with 2 mg Intralesional Allovectin-7 Compared to Dacarbazine (DTIC) or Temozolomide (TMZ) in Subjects with Recurrent Metastatic Melanoma" (Kim, PI). Sponsor-Vical Corporation.
- "A Phase II study of hyperacute pancreatic cancer vaccine in subjects with surgically resected pancreatic cancer" (Hardacre, PI). Sponsor-NewLink Genetics Corporation.
- "A Prospective, Randomized Comparison of Pancreatic Stump Closure Techniques Utilizing an Autologous Falciform Patch and Fibrin Glue Compared to Standard Closure Following Distal Pancreatectomy with or without Splenectomy" (Hardacre, PI).

- "A Phase 3 Study of Chemotherapy and Chemoradiotherapy with or without HyperAcute®-Pancreatic Cancer Vaccine in Subjects with Surgically Resected Pancreatic Cancer." (Hardacre PI) Sponsor-New Link Genetics.
- NSABP B-37 "A Randomized Clinical Trial of Adjuvant Chemotherapy for Radically Resected Loco-Regional Relapse of Breast Cancer" (Leeming, PI).
- NSABP B-39 "A Randomized Phase III Study of Conventional Whole Breast Irradiation versus Partial Breast Irradiation for Women with Stage 0-II Breast Cancer" (Leeming, PI).
- NSABP B-40 "A Randomized Phase III Trial of Neoadjuvant Therapy in Patients with Palpable and Operable Breast Cancer Evaluating the Effect on Pathologic Complete Response (pCR) of Adding Capecitabine or Gemcitabine to Docetaxel when Administered Before AC with or without Bevacizumab and Correlative Science Studies Attempting to Identify Predictors of High Likelihood for pCR with Each of the Regimens" (Leeming, PI).
- NSABP B-41 "A Randomized Phase III Trial of Neoadjuvant Therapy for Patients with Palpable and Operable HER2-Positive Breast Cancer Comparing the Combination of Trastuzumab and Lapatinib to Trastuzumab and to Lapatinib Administered with Weekly Paclitaxel Following AC Accompanied by Correlative Science Studies to Identify Predictors of Pathologic Complete Response" (Leeming, PI).
- NSABP B-42 "A Clinical Trial to Determine the Efficacy of Five Years of Letrozole Compared to Placebo in Patients Completing Five Years of Hormonal Therapy Consisting of an Aromatase Inhibitor or Tamoxifen Followed by an AI in Prolonging Disease – Free Survival in Post-Menopausal Women with Hormone Receptor Positive Breast Cancer" (Leeming, PI).
- NSABP B-5 "A Phase II Clinical Trial of Epirubicin Plus Cyclophosphamide Followed by Docetaxel Plus Trastuzumab and Bevacizumab Given as Neoadjuvant Therapy for HER2-Positive Locally Advanced Breast Cancer or Given as Adjuvant Therapy for HER2-Positive Pathologic Stage III Breast Cancer" (Leeming, PI).
- NSABP B-43 "A Phase III Clinical Trial Comparing Trastuzumab Given Concurrently with Radiation Therapy and Radiation Therapy Alone for Women with HER2-Positive Ductal Carcinoma In Situ Resected by Lumpectomy" (Leeming, PI).
- NSABP B-44 "A Multicenter Phase III Randomized Trial of Adjuvant Therapy for Patients with HER2-Positive Node-Positive or High Risk Node-Negative Breast Cancer Comparing Chemotherapy Plus Trastuzumab with Chemotherapy plus Trastuzumab plus Bevacizumab" (Leeming, PI).
- ICC5102 Expression of Estrogen Regulation Genes. PI: M. Montano, Ph.D.
- CWRU 11107 Partial Breast Re-Irradiation for Patients with Ipsilateral Breast Tumor Recurrence, After First Being Treated with Breast Conservation for Early Stage Breast Cancer: An Efficacy Trial Comparing Mammosite and Intraoperative Radiation. PI: J. Lyons, M.D.
- CWRU Feasibility and Efficacy of Breast Conserving Surgery in Patients with MRI Detected Multicentric Breast Cancer. PI: J. Lyons, M.D.

### IACUC APPROVED ANIMAL PROTOCOLS:

- CASE 2012-0019: Adoptive immunotherapy using ex vivo activated melanoma-draining lymph node (MDLN) T cells against human melanoma xenografts.
- CASE 2010-0127: Modulation of mammary tumor growth, metastasis and tumor-induced immune suppression.
- CASE 2010-0152: Effects of KLF4 knock-out macrophages on B16 melanoma murine model.

### PUBLICATIONS

- Leong SPL, KIM JA, Ross M, Faires M, Scoggins C, Rich Metz W, Cope F and Orahod R. A Phase II Study of <sup>99m</sup>Tc-Tilmanocept in the Detection of Sentinel Lymph Nodes in Melanoma and Breast Cancer. Ann Surg Onc, 2011.

- Weir HK, Marrett LD, Cokkinides V, Barnholtz-Sloan J, Patel P, Tai E, Jemal A, Li J, KIM J, Ekwueme DU. Melanoma in adolescents and young adults (ages 15-39 years): United States, 1999-2006. *J Am Acad Dermatol*. 2011 Nov;65(5 Suppl 1):S38-49.
- Jemal A, Saraiya M, Patel P, Cherala SS, Barnholtz-Sloan J, KIM J, Wiggins CL, Wingo PA. Recent trends in cutaneous melanoma incidence and death rates in the United States, 1992-2006. *J Am Acad Dermatol*. 2011 Nov;65(5 Suppl 1):S17-25.e1-3.
- Wu XC, Eide MJ, King J, Saraiya M, Huang Y, Wiggins C, Barnholtz-Sloan JS, Martin N, Cokkinides V, Miller J, Patel P, Ekwueme DU, KIM J. Racial and ethnic variations in incidence and survival of cutaneous melanoma in the United States, 1999-2006. *J Am Acad Dermatol*. 2011 Nov;65(5 Suppl 1):S26-37.
- Liao X, Sharma N, KApidia F, Zhou G, Lu Y, Hong H, Paruchuri K, Mahabeleshwar G, Dalmas E, Venteclef N, Flask C, KIM J, Doreian B, Lu K, Kaestner K, Hamak A, Clement K and Jain M. Kruppel-like factor 4 regulates macrophage polarization. *J Clin Investigation* 2011 July ; 121(7): 2736-2749.
- Minter RM, Angelos P, Coimbra R, Dale P, de Vera ME, Hardacre J, Hawkins W, Kirkwood K, Matthews JB, McLoughlin J, Peralta E, Schmidt M, Zhou W, Schwarze ML. Ethical Management of Conflict of Interest: Proposed Standards for Academic Surgical Societies. *Journal of the American College of Surgeons* 2011; 213:677-82.
- Chepla, KJ, and Wilhelm, SM: Delayed Mechanical Small Bowel Obstruction Caused by Retained, Free, Intraperitoneal Staple Following Laparoscopic Appendectomy. *Surgical Laparoscopy/Endoscopy and Percutaneous Techniques*, 21 (1), 2011, pp. 19-20.
- Phitayakorn, R, MacLennan, G, Sadow, P, and Wilhelm, S: Adrenal adenomatoid tumor in a patient with human immunodeficiency virus. *Rare Tumors, North America*, Vol. 3 (2)<http://www.pagepress.org/journals/index.php/rt/article/view/rt.2011.e21>, 2011.
- I Obokhare, S Polites, D Krpata, and S Wilhelm: Case Study: A 54 Year-Old Male with Sudden, Severe Abdominal Pain.. *J Surg Rad*, Vol. 2, [www.jsurgrad.com](http://www.jsurgrad.com) October 1, 2011, pp 428-431.

## ABSTRACTS

- Hardacre JM, Mulcahy MF, Talamonti M, Obel JC, Rocha Lima CMS, Safran H, Lenz HJ, Chiorean N, Vahanian NN, Link CJ. Addition of Algenpantucel-L Immunotherapy to Standard Adjuvant Therapy May Improve Survival and Disease Free Survival (DFS) in Resected Pancreas Cancer Patients. Presented at the American Society of Clinical Oncology-GI Meeting, 2011, San Francisco, CA.
- Hardacre JM, Mulcahy MF, Small W, Talamonti M, Obel JC, Rocha Lima CMS, Safran H, Lenz HJ, Chiorean N, Vahanian NN, Link CJ. Addition of Algenpantucel-L Immunotherapy to Standard Adjuvant Therapy May Improve Survival and Disease Free Survival (DFS) in Resected Pancreas Cancer Patients. Presented at the annual meeting of the Pancreas Club, 2011, Chicago, IL.
- Hardacre JM, Mulcahy MF, Small W, Talamonti M, Obel JC, Rocha Lima CMS, Safran H, Lenz HJ, Chiorean N, Vahanian NN, Link CJ. Addition of Algenpantucel-L Immunotherapy to Standard Adjuvant Therapy May Improve Survival and Disease Free Survival (DFS) in Resected Pancreas Cancer Patients. Presented at the Johns Hopkins Biennial, Baltimore, MD, June 10, 2011.

## INVITED PRESENTATIONS

### Rosemary Leeming, MD

- 9/15/11 Patient Satisfaction and Quality Update UHRMC Residents
- 10/11/11 Update on Breast Disease: RMC Community Forum
- 10/15/11 Update on Breast Disease: Women's Health Symposium
- 12/7/11 Grand Rounds UHCMC: Panel Discussion Benign Breast Disease
- 12/21/11 Grand Rounds UHCMC: Breast Cancer: Panel Discussion and Case

### Robert Shenk, MD

- Case Comprehensive Cancer Center Conference. The rise and Fall of the Axillary Dissection. Cleveland, Ohio May 7, 2011
- Case Comprehensive Cancer center Conference. Imaging Solutions in Cancer Management. A Case Based Approach. Imaged Guided Biopsy for Diagnosis and Staging of Breast Cancer. Cleveland, Ohio 9/18/2011
- Surgery Grand Rounds. Breast Cancer Treatment. University Case Medical Center 11/19/2011
- Komen Beyond Breast Cancer Symposium. Breast Cancer in the News. 10/15/2011

## ADMINISTRATIVE

### Julian Kim, MD

- Chief Medical Officer, UH Seidman Cancer Center
- Program Director, Surgery Training Program
- GME Executive Council
- Protocol Monitoring and Review Committee, UHCMC
- Cancer Hospital Steering Committee, UHCMC
- Publications Committee, American Society of Breast Surgeons
- Ad hoc reviewer, Journal of Surgical Oncology
- Program Committee, International Society of Biologic Therapy

### Jerry M. Shuck, MD

- Admissions Committee, Case Western Reserve University School of Medicine
- Director, Graduate Medical Education UHCMC
- Clinical Council UHCMC, ex officio
- Appeal Board member, ACGME
- Editorial Board, American Journal of Surgery
- Editorial Board, Academic Surgery

### Rosemary Leeming, MD

#### UHRMC:

- Quality Management Committee
- Utilization Review Committee
- Credentialing Committee
- Medical Executive Committee

#### RMC-BMC:

- Quality Affairs and Professional Advisory Committee
- UHRMC Board of Directors

#### CC-UH:

- Case Comprehensive Cancer Center Breast Cancer Disease Committee



UHCMC:

- UH Breast Cancer Task Force and Medical Management Group
- UH Breast Cancer Clinical Trials Group
- UHCMC Board of Directors
- CMC BOD Quality Committee

UHHS:

- UH Transformation Excess Days Committee
- CMO EMR Advisory Council

**Scott M. Wilhelm, MD**

- Director, Section of Endocrine Surgery, Division of Surgical Oncology
- Cleveland Surgical Society, Resident Research Committee Chairman
- Ohio Chapter, American College of Surgeons, Chairman, Communications Committee
- UHCMC Institutional Review Board
- Clinical Operations Council Member
- Case CME Advisory Committee Member
- Institutional Representative, American Association of Academic Surgery

**Jeffrey Hardacre, MD**

- Director, Section of Pancreatic Surgery, Division of Surgical Oncology
- CWRU Department of Surgery Residency Committee
- Mentor, CWRU Summer Medical Dental Education Program
- "Life after the Whipple" Support Group at UHCMC
- Ad hoc reviewer, Annals of Surgery

**Robert R. Shenk, MD**

- Director, Section of Breast Surgery, Division of Surgical Oncology
- UHCMC Credentialing Committee
- UHCMC Department of Surgery Promotions and Tenure Committee
- Ireland Cancer Center CME Committee
- UHCMC Cancer Hospital Task Force
- UHCMC Breast Cancer Task Force
- UHCMC Cancer Liaison Physician
- ACS Local Committee on Applicants

**Marjie Persons, MD**

- Convener, CWRU city-wide Block I Core Discipline Leaders
- Block I Core Discipline Leader, CWRU
- Curriculum Committee, Association for Surgical Education
- Clinical Curriculum Council
- AOA Selection Committee

## DIVISION GOALS

The Divisional goals for 2012 will be to continue to lead within the new UH Seidman Cancer Center. The recruitment of Dr. John Ammori will bolster growth in both clinical and translational research activities. The long-range goal will be to increase national visibility by increasing presentation of scientific results and participation in key scientific societies such as American College of Surgeons, Society of Surgical Oncology, American Society of Breast Surgeons, American Society of Endocrine Surgeons and SAGES/SSAT. Mentoring of residents and junior faculty in the development of research projects and careers in academic medicine will become a priority as the research program expands. Increased extramural research support and development of a research foundation using philanthropic support will ensure that the research program can grow in a fiscally responsible manner.

**Division Chief**  
Philip Linden, MD

**Faculty**  
Jason Robke, MD  
Carsten Schroeder, MD, PhD



The Division focuses on the minimally invasive treatment of disorders of the lung, mediastinum, pleura, chest wall, and esophagus including lung cancer, gastroesophageal reflux, paraesophageal hernia, esophageal cancer, pleural disease, hyperhidrosis, thoracic outlet syndrome, and tracheal tumors. Minimally invasive procedures commonly performed include VATS lobectomy, VATS pericardial window, laparoscopic hernia repair, laparoscopic Heller myotomy, VATS thymectomy, and stenting of the airway and esophagus. Ablative therapies, including Cyberknife stereotactic radiosurgery and radiofrequency ablation, are available for high risk and prohibitive risk patients.

**STAFF/FACULTY**

**Philip Linden, MD**

Dr. Linden began at University Hospitals Case Medical Center (UHCMC) in August 2007. He is an associate professor of surgery at Case Western Reserve University School of Medicine. He received his medical degree from the University of Pennsylvania in 1992. He completed his training in general surgery at the Brigham and Women’s Hospital and Harvard Medical School in Boston, Massachusetts in 1999. During this time, he spent two years as the Garrett B. Smith Fellow in Angiogenesis Research under Dr. Judah Folkman at Children’s Hospital. Dr. Linden completed his training in cardiac and thoracic surgery at the Brigham and Women’s Hospital and Children’s Hospital in Boston in 2001. After completing his training, he was on staff in the Division of Thoracic Surgery at Brigham and Women’s Hospital. During this time, he was Section Head of Thoracic Surgery at the Boston VA Hospital and developed a thoracic surgery program at MetroWest Medical Center in Framingham, MA. He was an assistant professor of surgery at Harvard Medical School. Dr. Linden’s areas of interest include esophageal surgery, minimally invasive thoracic surgery, bronchoalveolar carcinoma, and the surgical treatment of lung cancer in the high risk patient, including ablative therapies.

**Jason Robke, MD**

Dr. Robke was recruited in July 2004. He received his medical degree from the Medical College of Ohio and completed his training in thoracic surgery at Allegheny Medical Center in Pittsburgh, Pennsylvania. Dr. Robke received extensive training in the area of minimally invasive surgical techniques (VATS), surgical treatment of esophageal diseases, hyperhidrosis, chest wall tumors, and endoscopic treatment of airway and esophageal strictures under the tutelage of Dr. Rodney Landreneau. Dr. Robke is an assistant professor of surgery at Case Western Reserve University School of Medicine. He is on staff at the Louis B. Stokes Cleveland VA Medical Center, as well as at UHCMC.

**Carsten Schroeder, MD, PhD**

Dr. Schroeder became staff in the Division of Thoracic and Esophageal Surgery at UHCMC in January 2009. He received his medical degree from the University of Mainz (Germany) in 1996. He completed his training in general surgery at the University Hospital in Hannover (MHH, Germany) in 2005. During this time, he spent 2.5 years as a Research Fellow in Cardiac and Pulmonary Transplant Research under Dr. Richard Pierson at





Vanderbilt University in Nashville and University of Maryland in Baltimore, funded by a grant from the German Research Foundation (DFG). Dr. Schroeder completed his training in Thoracic Surgery at the Cleveland Clinic in 2006 and in 2007-2008 at UHCMC. His areas of interest include minimally invasive thoracic surgery, esophageal surgery and interventional endobronchial and endoesophageal management.

### DIVISION EDUCATIONAL PROGRAM

The thoracic service provides a second year general surgery resident rotation. Core competencies in thoracic surgery are taught. There are weekly teaching lectures on core subjects in thoracic surgery from the following topics: benign esophageal disease, malignant esophageal disease, benign and malignant lung and pleural disease, mediastinum, airway, chest wall and diaphragm.

The second year resident's patient care responsibilities include care of the thoracic surgery ICU patients, as well as the workup and care of in-hospital consultations.

### PATIENT CARE WITHIN THE DIVISION

Patients are cared for on the Tower 3 Telemetry unit. Early ambulation is provided with the aid of specially designed upright walkers which allow for ambulation with chest tubes that require continuous suction. A core group of nurse practitioners and physician assistants is responsible for patient care, while the second year resident is responsible for inpatient consultations and patients in the intensive care unit. Patients requiring ventilation or unstable patients are admitted to the cardiothoracic surgical intensive care unit, where they are cared for in collaboration with the surgical intensive care team.

Rounds are conducted every morning by the thoracic surgery attending, along with the thoracic surgery nurse practitioner or physician's assistant. A thoracic surgery fellow and a second year general surgery resident round out the thoracic surgery team.

Weekly quality assurance meetings are conducted, reviewing every operation performed, as well as any complications.

### DIVISION GOALS

- To become a regional and national center of excellence in minimally invasive thoracic surgery and in the care of the high risk thoracic surgery patient.
- To grow volume across the medical system. New practices will be started at St. John's Westshore Hospitals and UH Ahuja Medical Center.
- To develop a clinical and translational research program, supported by philanthropic, intramural and extramural research grants.

### PUBLICATIONS

#### Articles

- Chak A, Singh R, Linden PA. Covered stents for the treatment of life-threatening cervical esophageal anastomotic leaks. *J Thorac Cardiovasc Surg.* 2011;141(3):843-844.
- Hubbard MO, Schroeder C, Linden PA. Routine use of staging thoracoscopy for Pancoast tumors without overt radiographic chest wall invasion. *Surg Laparosc Endosc Percutan Tech.* 2011;21(2):111-115.



- Linden, PA. Use of Navigation Bronchoscopy for Biopsy and Endobronchial Fiducial Placement. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery* 2011;6(4):271-275.
- Liu N, Gilkeson R, Markowitz A, Schröder C. Thoracoscopic removal of a suture needle from the posterior pericardium after coronary artery bypass grafting. *Interactive CardioVascular Thoracic Surgery* 2011;13:341-343.
- Nguyen BN, Azimzadeh AM, Schröder C, Buddensick T, Zhang T, Laaris A, Cochrane M, Schuurman HJ, Sachs DH, Allan JS, Pierson RNIII. Absence Of Gal Epitope Prolongs Survival Of Swine Lungs In An Ex Vivo Model Of Hyperacute Rejection. *Xenotransplantation*. 2011;18:94-107.
- Chak A, Singh R, Linden PA. Covered stents for the treatment of life-threatening cervical esophageal anastomotic leaks. *J Thorac Cardiovasc Surg*. 2011;141(3):843-844.
- Hubbard MO, Schroeder C, Linden PA. Routine use of staging thoracoscopy for Pancoast tumors without overt radiographic chest wall invasion. *Surg Laparosc Endosc Percutan Tech*. 2011;21(2):111-115.
- Linden, PA. Use of Navigation Bronchoscopy for Biopsy and Endobronchial Fiducial Placement. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery* 2011;6(4):271-275.
- Liu N, Gilkeson R, Markowitz A, Schröder C. Thoracoscopic removal of a suture needle from the posterior pericardium after coronary artery bypass grafting. *Interactive CardioVascular Thoracic Surgery* 2011;13:341-343.
- Nguyen BN, Azimzadeh AM, Schröder C, Buddensick T, Zhang T, Laaris A, Cochrane M, Schuurman HJ, Sachs DH, Allan JS, Pierson RNIII. Absence Of Gal Epitope Prolongs Survival Of Swine Lungs In An Ex Vivo Model Of Hyperacute Rejection. *Xenotransplantation*. 2011;18:94-107.

## Chapters

- Hubbard MO, Onders R, Linden PA. Paralyzed Diaphragm, In; *ACS Surgery. Principles and Practice* /edited Stanley Ashley BC Decker 2011.
- Linden PA. Minimal Invasive Management of Intra-thoracic malignancies, In: *Minimal Invasive Surgical Oncology – State of the art cancer management*, edited by Ronald S. Matteotti and Stanley W. Ashley. Springer.
- Hubbard MO, Onders R, Linden PA. Paralyzed Diaphragm, In; *ACS Surgery. Principles and Practice* /edited Stanley Ashley BC Decker 2011.
- Linden PA. Minimal Invasive Management of Intra-thoracic malignancies, In: *Minimal Invasive Surgical Oncology – State of the art cancer management*, edited by Ronald S. Matteotti and Stanley W. Ashley. Springer.

## AWARDS

Dr. Linden – Cleveland Magazine, Top Doctors, Thoracic Surgery

Dr. Linden – Best Doctors in America

## PRESENTATIONS

### Dr. Linden

- Lung Cancer: Treatment Update. Grand Rounds. St. Vincent Charity Hospital. Cleveland, OH.
- Lung Cancer – Case Western School of Medicine Core Surgery Lecture Rotation.
- Three Dimensional Chest CT Reconstruction and the use of Navigational for bronchoscopic localization of lung tumors – *Imaging Solutions in Cancer Management*, Seidman Cancer Center, Cleveland, OH. September 8, 2011.
- Aggressive Therapy for Oligometastatic Stage IV NSCLC. Spring ACRIN meeting, Washington D.C.
- Protocol for the Investigation of optimal care for Oligometastatic NSCLC. ECOG Fall Meeting, Hollywood, FL.

**Dr. Schroeder**

- Thoracoscopic Removal of a Suture Needle From the Posterior Pericardium After CABG, Presented SAGES April 2011 San Antonio.
- Donor pretreatment with montelukast and atorvastatin improve physiology and histology in xeno mouse lung perfusion, William Leukhardt, Gheorghe Braileanu, Xiangfei Cheng, Richard Pierson, Agnes Azimzadeh, Carsten Schroeder. Presented International Xenotransplantation Congress 10/2011 Miami.

**PULMONARY MEDICINE GRAND ROUNDS**

- 1) Navigation Bronchoscopy and Cyberknife Fiducial Placement
- 2) Minimally Invasive Chest Surgery Update 3/11/2011

Emergency Medicine Teaching Rounds: Chest Tube Placement  
4/7/2011

Faculty at Case Webinar: The Emerging Role of Radiosurgery for Surgeon (by Surgeons)  
5/20/2011

Medicine Grand Rounds: Esophageal Rupture and Surgical Treatment  
6/17/2011

House Call Family Practice Parma  
Lung Nodules and Minimally Invasive Chest Surgery Update  
8/11/2011

Medicine Grand Rounds: Pneumothorax and Chest Tube Management  
8/19/2011

Pulmonary Medicine Fellow Teaching Conference: Chest Tube Placement  
9/13/2011

Medicine Grand Rounds: Caustic Ingestion, Esophageal Stricture and Surgical Treatment  
12/09/2011



## DIVISION RESEARCH

Novel Use of Navigation Bronchoscopy for Placement of Cyberknife Fiducials in High Risk Patients

Principal Investigator: Carsten Schroeder, MD

Co-Investigators: Philip Linden, MD, Rana Hejal, MD

CALGB 140503: A Phase III Randomized Trial of Lobectomy vs. Sublobar Resection for Small (<2cm) Peripheral Non-Small Cell Lung Cancer

Site Principal Investigator: Philip Linden, MD

ACASOG Z4099: Phase III Randomized Study of Sublobar Resection With or Without Brachytherapy vs. Stereotactic Body Radiotherapy in High-Risk Patients with Stage I Non-Small Cell Lung Cancer

Site Principal Investigator: Philip Linden, MD

CASE 3510: Genetic and Biological Markers of Lung Cancer

Co-Investigators: Cheryl Thompson PhD, Philip Linden MD, Afshin Dowlati MD, Said Khayyata MD, Rom Leidner, MD

CASE 1510: MicroRNA Expression in Bronchoalveolar Carcinoma

Co-Investigators: Cheryl Thompson, PhD, Philip Linden MD, Said Khayyate MD, Afshin Dowlati MD

Laser Capture Microdissection and Microarray Analysis of Invasive and Noninvasive Areas of Adenocarcinoma with Bronchoalveolar Carcinoma Features

Principal Investigator: Philip Linden, MD

Orthotopic Mouse Lung Transplantation: A Method to Study Lung Transplant Biology

Principal Investigator: Carsten Schroeder, MD

Role of Bosentan in Lung Hyperacute Rejection

Principal Investigator: Carsten Schroeder, MD

Co-Investigators: Philip Linden, MD, Jeff Kern, MD, Robert Schilz, MD

Characterization of Human and Mouse Cytokine Profiles in Xenogenic Lung Injury

Principal Investigator: Carsten Schroeder, MD



**Division Chief**

James A. Schulak, MD

**Faculty**

Juan R. Sanabria, MD

Edmund Sanchez, MD

Christopher T. Siegel, MD, PhD

Kenneth Woodside, MD

The Division of Transplant and Hepatobiliary has responsibility for performing all abdominal organ (kidney, liver, and pancreas) transplants at the University Hospitals Case Medical Center (UHCMC), which includes Rainbow Babies & Children’s Hospital. The Division members also perform the majority of hepatobiliary operations, including hepatic resections and tumor ablations, using both open and laparoscopic techniques. In addition, Division surgeons perform hemodialysis access procedures for UHCMC patients and many pancreatic resections as well.

The Transplant Program, which was started in 1969 with renal transplantation, was expanded to include liver and pancreas transplantation in the late 1980s. Since its inception, the Program has performed well over 3,000 abdominal organ transplants with kidney transplants comprising the majority. Currently, the Division performs between 120-140 transplants each year. Live donor kidney transplantation is routinely performed for both adults and children and all donor nephrectomies are performed laparoscopically by Division surgeons. In addition, Division surgeons perform approximately 150 hepatobiliary and pancreatic operations and over 300 vascular access cases each year.

The members of the Division of Transplant and Hepatobiliary Surgery participate regularly in local, regional, and national organizations involved with transplantation and hepatobiliary surgery. Dr. Schulak is a past president of the American Society of Transplant Surgeons (ASTS), has served on the Board of Directors of the national organ procurement and transplantation network, UNOS, and is a recent past Director on the American Board of Surgery. In addition, he currently serves on the ASTS Issues and the Maintenance of Certification Committees. He has been a member of the Ohio Solid Organ Transplant Consortium (OSOTC) Board of Trustees since its inception in 1985 and has served several terms as the OSOTC Board President. Dr. Schulak also has served as Medical Director and President of the local organ procurement organization, LifeBanc. Dr. Christopher Siegel has served on both the Informatics and the Vanguard committees of the ASTS and is the past Chairman of the OSOTC Liver Transplant Committee. He serves on the Medical Advisory Committee of the Ohio Chapter of the American Liver Foundation and on the Advisory Boards for two pharmaceutical companies.



Dr. Edmund Sanchez is currently serving on the UNOS Pancreas Committee. In addition, he is a member of the ASTS Curriculum, Fellowship Training, and Foreign Medical Graduate Committees. Dr. Juan Sanabria currently serves on the Membership Committee of the American Hepato-Pancreat-Biliary Association, the Scientific Committee of the International Hepatobiliary Association, the Communications Committee of the ASTS, and the Board of Directors of the Diabetes Association of Greater Cleveland. In addition, he has been nominated to be Counselor at Large of the AASLD, where he is also a member of the Liver Transplant Steering Committee. Dr. Sanabria is the President Elect of the NIH NIDDK Minority Committee and is a member of the Executive Leadership Committee of the Association for Academic Surgery. Previously, he has served on the Pancreas Transplant Committee at UNOS, and on the Board of Trustees of the OSOTC, as well as on its Liver and Pancreas Transplant Committees. Dr. Kenneth Woodside is a member of the ASTS Vanguard Committee and the Winitzer Symposium Planning Committee. He is a member of the Medical Advisory Committee of the American Liver Foundation, Cleveland Metro Chapter. In addition, Dr. Woodside has served as Chair of the Lifebank Renal Transplant Committee.

## STAFF/FACULTY

### James A. Schulak, MD

Dr. Schulak has been a member of the Department of Surgery at UHCMC since 1985 when he was recruited to be the Director of Transplantation. He is a graduate of the University of Chicago Pritzker School of Medicine (1974) and completed both his general surgery and transplantation training at that same institution. Prior to joining the faculty at the Case Western Reserve University School of Medicine, he was on the faculty of the University of Iowa College of Medicine. Dr. Schulak holds the rank of Professor with tenure in the Case Western Reserve University School of Medicine and is the Clinical Director of the UHCMC Transplant Institute and the current Director of Kidney Transplant Surgery.

### Christopher T. Siegel, MD, PhD

Dr. Siegel has been a member of the Department of Surgery at UHCMC since 1999. He is a graduate of the Thomas Jefferson School of Medicine (1989). He completed his general surgery and transplant training at The University of Chicago Medical Center where he also earned a PhD in immunology. Dr. Siegel holds the rank of Associate Professor in the Case Western Reserve University School of Medicine. He is a past Director of both the Liver and Pancreas Transplantation and the current Director of Hepatobiliary Surgery at UHCMC. In addition, Dr. Siegel has recently been appointed as the Surgical Director of the Liver Center of Excellence in the Digestive Health Institute and as the Director of the Liver Cancer Disease Team in the UH Seidman Cancer Center.

### Edmund Sanchez, MD

Dr. Sanchez joined the Department of Surgery at UHCMC in November of 2009. He was recruited from the Baylor University Medical Center in Dallas, where he was the Director of both Kidney and Pancreas Transplantation, Program Director of the Transplant Surgery Fellowship, and Assistant Director of Transplant Services. Dr. Sanchez is a graduate of the Wayne State University School of Medicine (1994). He received his general surgery training at Wayne State University Medical Center and completed his transplant fellowship at the Baylor University Medical Center. Dr. Sanchez holds the rank of Associate Professor in the Case Western Reserve University School of Medicine. He is the Surgical Director of both Liver and Pancreas Transplantation Surgery at UHCMC.

### Juan R. Sanabria, MD

Dr. Sanabria has been a member of the Department of Surgery at UHCMC since 2004. He was recruited from The Medical College of Ohio, where he was the Director of Liver and Pancreas Transplantation. Dr. Sanabria is a graduate of the Colegio Mayor de Ntra Sra del Rosario Faculty of Medicine in Bogotá, Colombia (1985). He received his general surgery, hepatobiliary, and transplant training at the University



of Toronto, where he also received a Master of Science degree. Dr. Sanabria holds the rank of Assistant Professor in the Case Western Reserve University School of Medicine. Dr. Sanabria was the previous Director of Pancreas Transplantation at UHCCM. In addition to being a member of the abdominal organ transplant team, Dr. Sanabria has been a member of the Department of Surgery Acute Surgery Service.

### **Kenneth Woodside, MD**

Dr. Woodside joined the Department of Surgery at UHCCM in August of 2009. He is a graduate of the University of Michigan Medical School (1999) where he also earned a Masters degree in immunology. He received his general surgery training at the University of Texas Medical Branch at Galveston, where he also served on the faculty for one year prior to completing his transplant training at the University of Michigan Medical Center. Dr. Woodside is the Director of the Vascular Access Service at UHCCM and a member of the liver, kidney, and pancreas transplant teams, where he is the Director of Live Donor Surgery. In addition, Dr. Woodside will be a co-director of our new HIV Transplant Service.

### **RESEARCH**

Members of the Division are involved in both laboratory and clinical research. Dr. Schulak has conducted basic science research in the area of renal, hepatic, and pancreatic ischemia/reperfusion injury for the past two decades. His work has been intermittently funded by the National Kidney Foundation, the Kidney Foundation of Ohio, the American Diabetes Association, the Diabetes Association of Greater Cleveland, and the Rosenberg Renal Research Foundation. He has mentored seven surgical residents in the laboratory and has published numerous research papers relating to the pathophysiology and molecular biology of ischemia/reperfusion injury. Recent work has focused on the role of endothelin and nitric oxide in the pathophysiology of I/R injury particularly as it pertains to gender differences. Dr. Juan Sanabria has an interest in ischemia/reperfusion injury as well. He has performed basic

research in conjunction with Dr. Henri Brunengraber in the Department of Nutrition in the area of cold preservation injury of transplantable organs. Also, in conjunction with Dr. Brunengraber, Dr. Sanabria has initiated several clinical studies of metabolomics and isotopomer analysis in human liver disease.

In the clinical arena, Dr. Schulak is a co-investigator (Donald Hricik, MD, is the principal investigator from the Department of Medicine) on an NIH funded study entitled "Non-invasive markers and transplant outcomes in humans". He is also the UHCCM PI for a joint study with the Cleveland Clinic Department of Surgery on the use of TPA in the pre-transplant perfusion of organs recovered from Donors by Cardiac Death (DCD donors). This project, entitled "Enhancing DCD Utilization with Thrombolytic Therapy" is sponsored by the U.S. Health Resources and Services Administration (HRSA). Dr. Siegel continues to develop a comprehensive UHCCM hepatobiliary surgery database. Dr. Siegel, in conjunction with colleagues from Medical and Radiation Oncology, has initiated a collaborative study of the use of Yttrium 90 microspheres as an ablative treatment for hepatic colorectal metastases. Dr. Siegel is also part of a team at UHCCM that is studying the use of imaging to measure liver volumes prior to liver resection. Dr. Sanchez has an ongoing interest in studying renal function in liver transplant patients as well as the use of continuous glucose monitoring in pancreas transplant recipients. Dr. Woodside is conducting outcomes research in renal transplantation utilizing the national SRTR database. He also is developing a UHCCM database for vascular surgery outcomes. Drs. Schulak and Siegel, in conjunction with Dr. Jeffrey Hardacre in the Division of Surgery Oncology, continue to develop a UHCCM database for pancreatic surgery and have performed several retrospective clinical studies using the database. Finally, all members of the Division participate in the Transplant Program's numerous industry-sponsored, multi-center trials in the area of immunosuppression therapeutics



## INDUSTRY SPONSORED RESEARCH PROJECTS

- Phase 2, randomized, open-label, parallel group, multi-center study to assess the safety and efficacy of Alefacept in de novo kidney transplant recipients (Astellas).
- Phase 3, open-label, multi-center, prospective, randomized study of the efficacy and safety of conversion from Prograf® capsules twice daily to LCP-Tacro tablets once daily for the prevention of acute allograft rejection in stable kidney transplant patients (LifeCycle).
- A facilitated access program to provide everolimus (RAD) for maintenance for patients completing therapy (RAD) trials in solid organ transplantation (Novartis).
- Planned transition to sirolimus-based therapy versus continued tacrolimus-based therapy in renal allograft recipients (Pfizer).
- Phase 3, double-blind, double-dummy, multi-center, prospective, randomized study of the efficacy and safety of LCP-Tacro™ tablets, once daily, compared to Prograf® capsules, twice daily, in combination with Mycophenolate Mofetil for the prevention of acute allograft rejection in De Novo adult kidney transplant recipients (LifeCycle).
- Advanced Liver Analysis in Computed Tomography for Liver Segmentation and Volumetry (Phillips).

## NIH AND HRSA RESEARCH GRANTS

- Noninvasive monitoring to predict outcome in De Novo kidney transplant recipients (CTOT-01, NIH).
- Immune monitoring and CN1 withdrawal in low risk recipients of kidney transplants (CTOT-09, NIH).
- Enhancing DCD Utilization with Thrombolytic Therapy (HRSA).

## DIVISION EDUCATION

The Division currently does not have a transplant surgery fellowship program. Consequently, its primary educational effort is in the training of general surgery and urology residents at UHCMC. In addition, residents from several regional general surgery programs rotate through the service in order to obtain their transplantation experience. The Transplant and Hepatobiliary Service serves as the primary exposure of the resident staff to

patients with chronic end-stage kidney and liver disease, thereby allowing them to become familiar with the strategies of renal replacement therapy and the management of patients with liver failure and hepatic malignancies. Specific topics covered with the resident staff include: immunosuppression and transplant immunology; patient evaluation for liver, pancreas, and kidney transplantation; organ donation, procurement, and allocation; evaluation of patients for vascular access; and assessment of patients with hepatobiliary and pancreatic neoplasms. The Division members also participate in the didactic educational programs for the first and third year students and serve as mentors for fourth year students performing assistant internships in the field of transplant and hepatobiliary surgery. The Division periodically presents "Transplant Update" courses for community physicians. Finally, members of the Division give educational update lectures each year to various physicians' and nurses' groups both in the University Hospitals Health System hospitals and to other medical groups in Northeast Ohio.

## PATIENT CARE WITHIN THE DIVISION

The Transplant and Hepatobiliary Service at UHCMC is a very unique one in that it is attended by both the surgeons from the Division of Transplant and Hepatobiliary Surgery and the transplant nephrologists and hepatologists from their respective divisions in the Department of Medicine. The primary resident staff is from the programs in general surgery and urology (typically this includes a PGY5, PGY3, and two PGY1s) who are variably assisted by fellows from nephrology and gastroenterology in the Department of Medicine. The service has a full-time nurse coordinator whose responsibility is to assist the resident staff with transplant-related management issues and to serve as a liaison between the inpatient service and outpatient management teams, and three nurse practitioners (NPs). One NP works primarily with the surgeons managing non-transplant hepatobiliary and pancreas patients. Two other NPs are assigned to the surgical and medical patients on the transplant service. The pre-transplant effort is managed by five nurse coordinators for kidney and pancreas transplantation and one for

liver transplantation. The post-transplant effort is managed by three additional nurse coordinators for adult kidney and pancreas transplantation, one for pediatric kidney transplantation, and two for liver transplantation. In addition, the Transplant Program has a dedicated hospital administrator, data management and computer coordinator, two social workers, a business coordinator, two outreach coordinators, and two patient financial coordinators.

Whenever feasible, morning rounds are conducted jointly by the surgical and medical attending staff and all major therapeutic and management decisions on transplant patients are made after consultation with each other. The program conducts weekly patient selection meetings and monthly quality improvement meetings for both the kidney/pancreas and liver programs. In addition, a monthly journal club is held where recent scientific articles are discussed or visiting professors in the field of transplantation are featured. Because of the large number of liver and pancreatic cancer patients managed by the Division members, they are regular participants in the multi-disciplinary tumor conferences for both GI (non-hepatic) and Hepatobiliary malignancies. The latter was initiated by Dr. Siegel who regularly chairs this program. In 2007, the UHCMC Transplant Institute was opened. This facility is home for all of the nurse coordinators for the abdominal and thoracic organ transplant programs as well as all of the administrative and

ancillary staff. In addition, the space houses all of the pre- and post-transplant clinics for both the surgical and medical faculty, thereby facilitating seamless care for the transplant patients. The Transplant Institute also operates an Education and Evaluation Clinic in Akron, Ohio to facilitate the initial assessment of patients from that region.

### DIVISION GOALS

The Division of Transplant and Hepatobiliary Surgery continues to strive for the best outcomes achievable in abdominal organ transplantation and in hepatobiliary surgery. To date, we are achieving patient and graft survivals that are equal to or better than those expected by the national registries using risk adjusted methodology. Growth in transplant volume is of paramount importance to the Division and strategies to achieve this goal are being developed through strategic planning efforts with UHCMC administration for each organ. With further development of a hepatobiliary and pancreas surgery database, an important ongoing goal of the Division is to continue to analyze the UHCMC data and submit it for academic presentations. In concert with our colleagues in the Department of Medicine, Division surgeons continue to develop clinical studies in kidney, liver, and pancreas transplantation and under the new leadership of Dr. Kenneth Woodside, we are developing a vascular access database to facilitate clinical research in this area as well.

### HONORS AND AWARDS

- 2005 Cleveland MOTTEP Award of Achievement: Dr. James A. Schulak
- Dr. Schulak has been continually cited in "Best Doctors in America" since 1994
- Dr. Siegel has also been cited in "Best Doctors in America"
- Faculty Minority Award, University Hospitals Case Medical Center 2008: Dr. Juan Sanabria
- "Physicians Community Service & Business Award" The Hispanic Chamber of Commerce for Ohio 2008: Dr. Juan Sanabria
- NIH / NIDDK Certificate of Achievement (third place) for an exemplary research presentation: Dr. Juan Sanabria
- Kidney Foundation of Ohio "Person of the Year for 2009": Dr. James Schulak
- Dr. Sanchez was awarded the Baylor University Medical Center Transplant Teaching award for 2009

**PUBLICATIONS: 2007-2012**

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- Augustine JJ, Poggio ED, Clemente MA, Aeder MA, Bodziak KA, Schulak JA, Heeger PS, Hricik DE. Hemodialysis vintage, black ethnicity, and pretransplantation antidonor cellular immunity in kidney transplant recipients. *J Am Soc Nephrol* 18(5): 1602-6, 2007.
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- Woodside KJ. Hemodialysis access procedures, in *Atlas of General Surgery Techniques*, Townsend CM Jr., Evers BM (eds). Elsevier Saunders, Philadelphia, 2010.
- Siegel CT. Approach to Colorectal Liver Metastasis. Chapter in *Indications and Outcomes in Colon and Rectal Surgery*. Davis Beck (editor) (in press).
- Woodside KJ. Autoresuscitation and organ donation: When is it safe to declare someone dead: *Crit Care Med.* 40: 329-330, 2012.
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- Wong R, Sanabria J. Hemorrhage from a giant gastric arteriovascular malformation: Case report. *Am J Gastroenterol*, (in press).

## PRESENTATIONS

### James A. Schulak, MD

- Indications for pancreatic surgery. Second Annual Case Department of Surgery General Surgery Review Course, Cleveland, 2007
- What's new in organ transplantation. Department of Surgery Grand Rounds, University of Iowa Hospitals. Iowa City, 2007
- Management of gall stone pancreatitis and management of pancreatic pseudocysts. 5th Annual Case Department of Surgery Update Course, Cleveland, 2009
- Organ Donation and Allocation in America. Department of Surgery Grand Rounds, Cleveland, 2010
- Organ Donation and Transplantation. Visiting Professor, Akron City Hospital, 2010
- Organ Allocation and Transplantation. Northeast Ohio University College of Medicine, 2010

### Christopher T. Siegel, MD

- Advanced Surgical Anatomy: Liver resection and transplantation. Case Western Reserve University, Cleveland, 2008
- Approaches to Challenges in Hepatobiliary & Pancreatic Surgery. 4th Annual Case Department of Surgery Surgery Update Course, Cleveland, 2008
- Hepatocellular Carcinoma, Cleveland Clinic, 2009
- Management of gall stone pancreatitis and management of pancreatic pseudocysts. 5th Annual Case Department of Surgery Update Course, Cleveland, 2009
- Approaches to Challenges in Hepatobiliary & Pancreatic Surgery Cases. 6th Annual Case Department of Surgery Update Course, Cleveland, 2010
- Imaging Solutions in Cancer Management: A Case Based Conference, Cleveland, 2011
- Surgical Management of Primary Malignancies of the Liver and Pancreas. LakeHealth Annual Cancer Symposium, 2011



**Juan R. Sanabria, MD**

- The current management of the liver mass. Second Annual Case Department of Surgery Review course, Cleveland, 2007
- Islet cell transplantation: current status. Grand Rounds, Department of Medicine, Case Western Reserve University, Cleveland, 2007
- Strategies to overcome disparities in health care delivery among minorities. Grand Rounds Department of Medicine, University Hospitals, Case Medical Center, 2007
- Update on pancreas transplantation in the USA. Transplant Update Course, UHCMC Transplant Institute, 2007
- Cyberknife therapy for unresectable tumors of the liver, pancreas, and biliary tree. Symposium in Stereotactic Radiosurgery, Cleveland, 2007
- PEG-Albumin in UW solution ameliorates cold preservation injury in rat liver grafts. International Hepatic, Pancreatic, Biliary Association, Mumbai, 2008
- Glutathione turn over in non-cirrhotics, cirrhotics and patients after liver transplant, NIH Midwest meeting, Chicago, 2008
- Ophthalmic Acid in secondary rabbit liver tumors, subsistence and growth. ILCA, Chicago, 2008
- Pancreas Transplantation: State of the art 2009. University of Toledo Medical Center, 2009
- The status of abdominal transplantation in USA: 2009. Department of Surgery, University of Toledo, 2009
- Glutathione turn-over and concentrations in cirrhotics, non-cirrhotics and post liver transplant patients. 4th Annual Academic Surgery Congress. Ft. Myers, FL, 2009
- The dynamics of glutathione species and ophthalmate in the VX2 rabbit model of secondary liver tumors. 4th Annual Academic Surgery Congress, Ft. Myers, FL, 2009
- The dynamics of glutathione species and Ophthalmate in HCC in woodchucks and humans. International Hepatopancreatic and Biliary Association, Buenos Aries, 2010
- Multicenter results of stereotactic body radiosurgery (SBRS) for primary tumors of the liver. International Hepatopancreatic and Biliary Association, Buenos Aries, 2010
- The dynamics of glutathione species and ophthalmate in liver tumors in rabbits, woodchucks, and humans. National NIH/NIDDK Symposium, Bethesda MD, 2010
- Early detection of HCC by isotopomer analysis of Glutathione species and metabolomics signatures & Treatment of advanced HCC by SBRT. Surgical Grand Rounds, Medical College of Georgia, 2011
- Early detection of HCC by isotopomer analyses of Glutathione species and metabolomics signatures in two animal models and in the human. NIH-NIDDK, 2011
- Current Surgical Treatment of Diabetes, Surgery Grand Rounds, Dalhousie University, Halifax, Canada, 2011
- Current management of malignant liver masses, Surgical Grand Rounds, UHCMC, 2011

**Edmund Q. Sanchez, MD**

- Intraoperative fluorescence imaging in pancreas transplantation to determine vascular patency and allograft perfusion. American Transplant Congress, Toronto, 2008
- Advancing donor age does not predict increased length of stay in a multivariate analysis of complications after liver transplantation. American Transplant Congress, Toronto, 2008
- Renal failure after liver transplant is dependent on month 3 GFR, a long-term review of up to 15-year Glofil data. American Transplant Congress, Toronto, 2008
- Utilizing intraoperative fluorescence imaging in liver transplantation and hepatic arterial revisions to image vascular flow, allograft perfusion, and bile production. American Transplant Congress, Toronto, 2008
- The effect of immunosuppression on long-term FGR, a comparison of tacrolimus, cyclosporine, and sirolimus. American Transplant Congress, Toronto, 2008
- Intraoperative fluorescence imaging in renal transplantation to demonstrate vascular patency and allograft perfusion. American Transplant Congress, Toronto, 2008
- Transplantation options for patients with diabetes mellitus. Northeast Ohio Universities College of Medicine, 2010

**Kenneth J. Woodside, MD**

- Liver and kidney utilization from pediatric DCD donors. American Society of Transplant Surgeons Winter Meeting, Marco Island, 2009
- Laparoscopic nephrectomy in obese donors. American Transplant Congress, Boston, 2009
- Extended and standard criteria kidneys with similar KDRI scores have similar outcomes, American Society of Transplant Surgeons Winter Meeting, Hollywood, FL, 2011
- Ruptured liver mass, American Liver Foundation, Cleveland, 2011
- Kidney case studies, American Society of Transplant Surgeons Winter Meeting, Miami Beach, FL, 2012
- ECD kidney utilization, International Society for Organ Preservation Webinar Series, 2012

**Division Chief**

Vikram Kashyap, MD

**Division Chief Emeritus and  
Program Director**

Jerry Goldstone, MD

**Academic Faculty**

Henry Baele, MD

Teresa Carman, MD

John Wang, MD

Virginia Wong, MD

**Community Faculty**

Howard Darvin, MD

James Persky, MD

The mission of the Division of Vascular Surgery and Endovascular Therapy is to provide comprehensive care for patients with diseases of the vascular system to reduce morbidity and mortality from these diseases and improve quality of life for our patients. We do this through education, research and scientifically-based, compassionately delivered clinical care employing the latest advanced techniques and technology. More than half of our procedures are now exclusively or partially catheter-based and minimally invasive. This has greatly broadened the scope of our clinical activities and is reflected in the name change of the Division, from Division of Vascular Surgery to the Division of Vascular Surgery and Endovascular Therapy. As one of the Divisions within the Department of Surgery, we participate fully in its academic and educational programs. The Division is also an integral component of the Harrington Heart and Vascular Institute of University Hospitals Case Medical Center (UHCMC), working closely with colleagues from cardiovascular medicine, cardiac surgery, and radiology to create system-wide integration and improvements in cardiovascular care. Vascular medicine focuses on the non-surgical and non-interventional management of a wide variety of vascular disorders

including wound care, lymphedema, arteriovascular risk factor modification and clinical thrombosis.

The Division is composed of eight full-time faculty. These faculty members provide inpatient services to the following University Hospitals Centers: Case, Ahuja, Bedford, Geauga, and Richmond Medical Centers. Outpatient clinical practice occurs at multiple suburban Cleveland locations including: University Suburban, Chagrin Highlands, Twinsburg, Concord, Westlake, and Mentor Health Centers. In addition to two vascular surgery fellows, the Division has a full-time nurse, medical assistant, three secretaries, and a billing and coding specialist. As the Vascular Center of the Heart and Vascular Institute, we also are responsible for the Vascular Diagnostic Center, where more than 10,000 non-invasive vascular examinations are performed annually.

The Division supports a highly successful and competitive ACGME-approved residency (Fellowship) in Vascular Surgery. This 2-year program is approved for one resident per year leading to certification in Vascular Surgery by the American Board of Surgery. In addition, we actively participate in the education of general surgery residents and medical students





from Case Western Reserve University School of Medicine. Recently, the Division was approved for a novel Vascular Surgery Residency (5 years) starting in 2012.

## FACULTY

### Henry Baele, MD, FACS

#### Assistant Professor of Surgery

Dr. Baele has been affiliated with UHCCM for over 20 years and serves as Director of the Vascular Laboratories. He has a busy clinical practice, focused primarily on complex aortic disease, and he plays an important role in the education of vascular fellows. He is certified by the American Board of Surgery in general surgery and vascular surgery.

### Teresa Carman, MD

#### Assistant Professor of Vascular Medicine

Dr. Carman is board certified in Internal Medicine and Vascular Medicine. She serves as Director of the Vascular Medicine program, as well as the Center for Wound Care at UHCCM. Her clinical research interests include thrombophilia, therapies for venous thromboembolism and vascular laboratory assessment. She plays an active role in the vascular surgery educational and clinical programs.

### Howard Darvin, MD, FACS

#### Clinical Assistant Professor of Surgery

Dr. Darvin completed his general surgery training at Mount Sinai Medical Center in Cleveland and a vascular fellowship at St. Anthony's Hospital in Columbus. He is the Director of Vascular Services at Geauga Medical Center where he maintains a busy clinical practice. He is board certified by the American Board of Surgery in general surgery.

### Jerry Goldstone, MD, FACS, FRCSE (hon)

#### Professor of Surgery

Dr. Goldstone serves as Division Chief Emeritus, having led the Division for nine years, from 1999-2008, and again as interim chief in 2010. He has been a member of the UHCCM faculty since 1999. He has played a significant leadership role within the Department of Surgery, the Hospital and Case

Western Reserve University School of Medicine. He is certified by the American Board of Surgery in general surgery and vascular surgery.

### Vikram Kashyap, MD, FACS

#### Professor of Surgery

Dr. Kashyap was recruited to lead the Division and assumed this role in February, 2011. His clinical expertise is in the areas of cerebrovascular disease, aortic pathologies, peripheral arterial disease, and venous problems. He has been awarded numerous NIH and Foundation grants to fund his research. The translational laboratory is devoted to the study of endothelial dysfunction. He is certified in both general surgery and vascular surgery.

### James Persky, MD, FACS

#### Clinical Assistant Professor of Surgery

A native Clevelander and graduate of the Case Western Reserve University School of Medicine, Dr. Persky received his general surgery training at Case Western Reserve University followed by a vascular surgery fellowship at the University of Cincinnati. He is the first-elected Chief of Surgery at Ahuja Medical Center. He is certified by the American Board of Surgery in both general and vascular surgery.

### John Wang, MD

#### Assistant Professor of Surgery

Dr. Wang joined the faculty in 2009 following training in general and vascular surgery at Temple University in Philadelphia. He has quickly become a busy clinician with expertise in endovascular therapies and is now beginning to develop a research program. He is Associate Program Director of the Vascular Surgery Fellowship. He is certified by the American Board of Surgery in general surgery and vascular surgery.

### Virginia Wong, MD, FACS

#### Assistant Professor of Surgery

Dr. Wong has been a member of the faculty since completing her general and vascular surgery training at UHCCM in 2006. She completed additional fellowship training in advanced endovascular techniques at Eastern Virginia Medical School (2005) and Baylor (2006). She has been a leader in

the application of endovascular techniques to the treatment of vascular disease and has also become a leader in dialysis access program. She leads the Vascular Services at Richmond Medical Center. Dr. Wong is certified by the American Board of Surgery in both general surgery and vascular surgery.

## PATIENT CARE

The Division's multidisciplinary team is composed of highly trained academic physicians, surgeons, nurses and technicians in multiple locations across Northeast Ohio. We are dedicated to the diagnosis and treatment of patients with vascular problems including cerebrovascular, aortic, peripheral occlusive and venous disease. All aspects of evaluation and treatment of vascular diseases including advanced diagnostic imaging, medical therapies, endovascular treatment and surgery are available for our patients. The Division's physicians are pioneers in a number of cutting-edge research studies and novel therapies. We have many innovative clinical and research resources for the most challenging and ill patients. Our patients have access to the latest technologies including stem cell therapy for peripheral arterial disease, advanced cardiovascular imaging, novel endovascular devices and surgical techniques. In addition, the results of the Medical Center's patient satisfaction surveys show vascular surgery to be at or near the very top of the rankings in every category.

## DIVISION EDUCATIONAL ACTIVITIES

We have responsibility for the education of 24 PGY-1 general surgery and surgery specialist residents providing care for patients with vascular disease. This is both a rewarding and stimulating activity. However, our major educational focus involves the training of our advanced vascular fellows in a two-year program that has completion of a general surgery residency as a necessary precursor. The vascular residents must become not only familiar with, but expert in, the diagnosis and management of diseases of the arterial and venous systems. One measure of the quality of such training programs is the success rate of the graduates in passing the vascular board examinations of the American Board of Surgery. Over the past 10 years our fellows'

record is nearly 100%. Faculty also participate in the education of medical students through the core surgery clerkships as well as advanced electives. In addition, faculty are involved in CME activities, lecturing and sharing their expertise to other practicing physicians in local, regional, national and international venues. The faculty gave nearly 100 presentations this year.

## DIVISION RESEARCH

### Basic or Translational Research:

- Development of implantable flow sensors to monitor bypass graft function has been initiated and employs SmartGraft technology
- Endothelial Function in Human Peripheral Arteries, K23 HL080247
- Biomimetic Engineering of Vascular Prostheses, R01 HL087483

### Clinical Research:

- The Rheos implantable baroreceptor stimulator for the treatment of resistant hypertension
- MarrowStim PAD Kit for the Treatment of Critical Limb Ischemia in Subjects with Severe Peripheral Arterial Disease
- Carotid Revascularization with ev3 Arterial Technology Evolution Post Approval Study – Post Market Surveillance Arm (CREATE PAS)
- Post Approval Study Evaluating The Long Term Safety and Effectiveness Of The Endurant Stent Graft System (ENGAGE PAS)
- A randomized, double-blinded, placebo-controlled, Phase IIa dose-ranging study to assess the safety, pharmacokinetics, and tolerability of multiple doses of sodium nitrite in diabetic patients with peripheral arterial disease (PAD)-SONIC; sponsored by Theravasc
- A multicenter, randomized, double-blind, placebo-controlled, parallel group study to evaluate the efficacy, safety, and tolerability of ixmyelocel-T in subjects with critical limb ischemia and no options for revascularization; Aastrom REVIVE CLI

### Selected Publications

- Sandadi S, Johannigman JA, Wong VL, Blebea J, Altos MD, Hurd WW. Recognition and management of major vessel injury during laparoscopy. *J Minim Invasive Gynecol.* 2010 Nov-Dec; 17(6): 692-702.
- Kashyap VS, Gilani R, Bannazadeh M, Bena JF, Sarac TP, Endovascular Therapy for Acute Limb Ischemia, *Journal of Vascular Surgery* 2011; 53:340-6, PMID: 21050699.
- Kashyap VS, Intravascular Ultrasound in Vascular Disease and Treatment, *Vascular Disease Management* 2011; 8:E80, <http://www.vascular-disease-management.com/>.
- Lakin RO, Bena JF, Sarac TP, Shah S, Krajewski LP, Srivastava SD, Clair DG, \* Kashyap VS, The Contemporary Management of Splenic Artery Aneurysms, *Journal of Vascular Surgery* 2011; 53:958-65, PMID: 21215563.
- Moise MA, Kashyap VS, Treatment of Aortoiliac Occlusive Disease: Medical versus Endovascular versus Surgical Therapy, *Current Treatment Options in Cardiovascular Medicine* 2011; 13:114-28, PMID: 21327584.
- Sarac TP, Bannazadeh M, Rowan AF, Bena J, Srivastava S, Eagleton M, Lyden S, Clair DG, and Kashyap V, Comparative Predictors of Mortality for Endovascular and Open Repair of Ruptured Infrarenal Abdominal Aortic Aneurysms, *Annals of Vascular Surgery* 2011; 25:461-8, PMID 21549913.
- Abdelmalak B, Maheshwari A, Kovaci B, Mascha EJ, Cywinski JB, Kurz A, Kashyap VS, Sessler DI, Validation of the DeLiT Trial Intravenous Insulin Infusion Algorithm for Intraoperative Glucose Control in Non-cardiac Surgery: a randomized controlled trial, *Canadian Journal of Anesthesia* 2011; 58:606-16, PMID 21598057.
- Kashyap VS, Part One: the vast majority of patients with renal artery stenoses require intervention, *European Journal of Vascular and Endovascular Surgery* 2011; 42:135-9, PMID: 21816338.

### Co-published simultaneously in:

- Kashyap VS, Schneider F, Ricco JB, The Role of Interventions for Atherosclerotic Renal Artery Stenoses, *Journal of Vascular Surgery* 2011; 54:563-70, PMID: 21819928.
- Hileman CO, Carman TL, Storer NJ, Labbato DE, White CA, McComsey GA. Omega-3 fatty acids do not improve endothelial function in virologically-suppressed HIV-infected men: a randomized placebo-controlled trial. *AIDS Res Hum Retroviruses* 2011; epub.
- Azam SM, Carman TL. Diagnostic approach to peripheral arterial disease. *Cardiol Clin* 2011;29:319-329.
- Carman TL, Gegaj F. Management of Pulmonary Embolism: 2010 State-of-the-Art Update. *Curr Treat Options Cardiovasc Med* 2010;12(2):168-184.
- Hileman CO, Carman TL, Gripshover BM, O'Riordan M, Storer NJ, Harrill DE, White CA, McComsey GA. Salsalate is Poorly Tolerated and Fails to Improve Endothelial Function and Insulin Resistance in Virologically Suppressed HIV-infected Patients. *AIDS* 2010;24:1958-1961.
- Carman TL. History, Physical Examination, and Diagnostic Approach to Venous Disorders. *Manual of Vascular Disease* (2nd ed). Rajagopalan, Mukherjee, Dean, Mohler (eds), Lipincott Williams & Wilkerson, 2010
- Goldstone J. Brachiocephalic Reconstruction. In: Cameron JL and Cameron AM(eds):*Current Surgical Therapy*, 10th Edition. Elsevier, Philadelphia, 2011, pages 756-752.
- Reznick D, Blebea J, Boccardo J, Baele H. Treatment of Isolated Celiac Artery Aneurysms. *J Vasc Surg* (submitted).

## DIVISION GOALS

Our overall goal is to increase our ability to serve the patients of Northeast Ohio with the most innovative, comprehensive and personal care. In order to help achieve this goal, we plan to:

- Expand the number of clinical research projects.
- Expand clinical activities to include the new UH Ahuja Medical Center.
- Develop new clinical programs utilizing endovascular, minimally invasive therapies.
- Develop an inter-departmental center for the outpatient management of varicose veins.
- Develop a robust translational laboratory with additional NIH funding.

## HONORS AND AWARDS

### Henry Baele, MD

- "Best Doctors in Northeast Ohio"

### Jerry Goldstone, MD

- "Best Doctors in Northeast Ohio"
- "Best Doctors in America"

### Vikram S. Kashyap, MD

- American College of Surgeons Traveling Fellow to Australia and New Zealand, 2012
- Salzman Visiting Professor in Vascular Surgery, Beth Israel Deaconess Medical Center
- Treasurer, Peripheral Vascular Surgery Society

## 2011 Accomplishments of the Division of Vascular Surgery and Endovascular Therapy:

- Integration of UHMG-UHMP surgeons into one group
- Initiation of incentive-based contracts
- Open surgical and endovascular growth of 24.1%
- Hybrid operating room—both hybrid and percutaneous cases
- Achieved ICAVL certification for Geneva Vascular Lab
- Continue to develop system Wound Center integration
- Surgeon realignment with coverage at Ahuja, Geauga, Richmond, Conneaut and Geneva
- Expanded services at Twinsburg, Concord, Medina and Mentor
- Centralized scheduling using the HVI 844 3800 number for enhanced access
- Installation and use of 3D Phillips Portal
- Standardizing access, billing, and preop visits

## Clinical firsts:

- Thrombolysis for arterial and venous occlusions
- Carotid artery stenting
- Thoracic endografting for aneurysms, and dissections
- Endoscopic vein harvest for lower extremity bypass
- New endografts for AAA: Endologix, Medtronic
- Iliac recanalization, PTA/stenting
- Branding of Vascular Center
- Initiation of multiple (9+) new clinical trials
- Recruitment of an Allen Fellow



Research at UHCMC includes animal research, basic science research and clinical research opportunities.



## RESEARCH HIGHLIGHTS

The Department of Surgery provides a unique, multi-specialty academic environment where ideas are exchanged and cooperative research programs are planned. Research areas span the different Divisions within the three Hospitals, and include animal research, basic science research, and patient clinical trials. Much of the research is sponsored through the National Institutes of Health (NIH), as well as industry sources, such as Acell, Gore, Novus Scientific, and others. These research projects provide excellent teaching opportunities for General Surgery residents, as well as for our Allen Research Scholars, residents chosen during their second year to participate in two fully-funded years of research.

The past academic year was very research productive. Many of the past year's research findings have been presented at national and international forums and published in prestigious journals. We will continue to expand our research endeavors in the coming year. Some of the studies include:

- ABLATE Trial – AtriCure Synergy Bipolar RF Energy Lesions for Permanent Atrial Fibrillation Treatment During Concomitant On-Pump Endo/Epicardial Cardiac Surgery (Alan Markowitz, MD, Adnan Cobanoglu, MD)  
Sponsored by AtriCure, Inc.
- Mechanisms of Infection of Artificial Surfaces (Arie Blitz, MD)  
Sponsored by NIH

- UH-Socrates Project (Conor Delaney, MD, PhD)  
Sponsored by Cleveland Foundation
- M# Mobile Mentor, International Collaborator (Conor Delaney, MD, PhD)  
Sponsored by Norwegian Government
- Nitric Oxide Releasing Hernia Mesh for Hernia Repair and Infection Prevention (Michael Rosen, MD)  
Sponsored by Michigan Tech
- Anti-scarring Therapy to Prevent Stricture Following Endoscopic Esophageal Mucosectomy (Michael Rosen, MD)  
Sponsored by SAGES 2012 Research Grant Award
- Novitsky Grant (Yuri Novitsky, MD)  
Sponsored by Kensey Nash Corporation
- The Use of Cone Beam Computer Tomography to Volumetrically Assess Buccal Bone Defects (Faisal Quershay, MD, DDS) (IRB Protocol)
- Long-Gap Pure Esophageal Atresia: Development of a Survival Rabbit Model and Minimally Invasive Repair Techniques (Todd Ponsky, MD)  
Sponsored by International Pediatric Endosurgery Group (IPEG) Research Grant
- Molecular Studies of T Cell Clones for Adoptive Therapy (Julian Kim, MD)  
Sponsored by NIH – National Cancer Institute (NCI)
- A Phase 3 Study of Chemotherapy and Chemoradiotherapy with or without HyperAcute-Pancreatic Cancer Vaccine in Subjects with Surgically Resected Pancreatic Cancer (Jeffrey Hardacre, MD)  
Sponsored by NewLink Genetics Corp.





- Novel Use of Navigation Bronchoscopy for Placement of Cyberknife Fiducials in High Risk Patients (Carsten Schroeder, MD)
- Noninvasive monitoring to predict outcome in De Novo kidney transplant recipients  
Sponsored by NIH
- Biomimetic Engineering of Vascular Prostheses (Vikram Kashyap, MD)  
Sponsored by NIH – National Heart, Lung, and Blood Institute
- Endothelial Function in Human Peripheral Arteries (Vikram Kashyap, MD)
- Yield of Repeat Fine Needle Aspiration Biopsy and Rate of Malignancy in Patients with Atypia or Follicular Lesion of Undetermined Significance: The Impact of the Bethesda System for Reporting Thyroid Cytopathology (Christopher McHenry, MD)
- Facial Trauma and Concomitant Injuries (Alan Martinez, DDS; Keith Schneider, DMD; John Como, MD; Jeffrey Claridge, MD; Michael Nowak, PhD)
- Y Transconjunctival Approach for the Management of ZMC Fractures (Alan Martinez, DDS; John Bradrick, DDS)
- VA Cooperative Studies Program, VA Coronary Artery Revascularization in Diabetes Study (VACARDS) (Brian Cmolik, MD)
- Multidisciplinary Breast Cancer Care (Melanie Lynch, MD)  
Sponsored by VA Center of Excellence Research Grant

This is only a partial listing of the studies conducted by our faculty, and speaks to the depth and diversity of the Department's research commitment. Each individual Division section includes a complete listing of the research projects for the different faculty in that area.



## GENERAL SURGERY RESEARCH UPDATE

The Department of General Surgery's Research Section is comprised of two registered nurses. Under the direction of Bridget O'Brien-Ermlich, RN, MSN, research has continued to grow over the past several years. In addition to the full management and coordination of clinical trials, the research section assists and mentors residents, students and other staff investigators in the development of protocols, consent forms and IRB submissions such as departmental databases and other low risk research projects.

This past year, members of the research team were certified as Clinical Research Professionals by the Society for Clinical Research Associates (SoCRA). SoCRA established the Certification Program for Clinical Research Professionals in order to create an internationally accepted level of knowledge, education, and experience by which clinical research professionals will be recognized by the medical research community.

A Clinical Research Professional may serve as a clinical investigator, sub-investigator, clinical researcher, research nurse, administrator, coordinator, data manager, project manager, IRB coordinator, quality assurance specialist, regulatory affairs specialist, research pharmacist, consultant, or educator in clinical trials management. A Clinical Research Professional is involved in one or more aspects of clinical trials (GCP) research, including data collection, analysis, or monitoring; case management of protocol participants; recruitment and enrollment of human subjects; protection of subjects and subjects' rights through IRB relations; development of informed consent documents; preparation of adverse event experience reports; construction or monitoring of case report forms; maintenance of drug accountability records; grant and budget development; report preparation; education of other health-care professionals, patients or families regarding clinical trials, protocol development, program administration; and research program audit.

The past year was an excellent year for research productivity. Surgeons in the department participated in over 24 clinical trials, and over 25 departmental and chart review studies. Throughout 2011, approximately 32 subjects were enrolled in various studies within the Department of Surgery. A total of 10 clinical trials were completed this past year. The Surgery Protocol Review Committee also reviewed a total of 26 continuing reviews and 8 new protocols.

### Bridget O'Brien-Ermlich, RN, MSN

#### Senior Clinical Research Study Coordinator

Bridget came to UHCMC from the Cleveland Clinic where she served as a research nurse for the Digestive Disease Center from 2001 to 2005. Prior to that, she worked as a Wound, Ostomy and Continence nurse for approximately seven years. While at CCF, she was responsible for managing an extensive database on Crohn's Disease with an average accrual of 400 patients per year. Bridget continues to lead the research team in the Department of Surgery and is responsible for the budgets and administrative financial obligations for research. Bridget has authored and co-authored articles for a variety of clinical journals and has presented at many clinical programs and symposia. Bridget received her Bachelor's of Science in Nursing from College Misericordia in Dallas, Pennsylvania. In 2009, Bridget received her Master's in Nursing from Kent State University. Bridget serves as a member of the IRB Executive Committee, the Research Committee for Electronic Health Record Committee and the SOP Committee.





## Publications

- A randomized trial comparing cost and effectiveness of bipolar vessel sealers vs clips and vascular staplers for straight laparoscopic colorectal resections. Adamina M, Champagne BJ, Hoffman L, Ermlich B, Delaney CP. Br J Surg, 2011; 98(12): 1703-12.
- A feasibility and dosimetric evaluation of endoscopic radiofrequency ablation for human colonic and rectal epithelium in a treat and resect trial. Trunzo, Joseph A. McGee, Michael F. Poulouse, Benjamin K. Willis, Joseph E. Ermlich, Bridget. Laughinghouse, Michelle. Champagne, Bradley J. Delaney, Conor P. Marks, Jeffrey M. Surgical Endoscopy. 25(2):491-6, 2011 Feb.

## Conference Presentations

"Self-Monitoring Program to Promote Quality Assurance," Society of Clinical Research Associates National Conference, B. O'Brien-Ermlich, C. Ferrazzano Yaussy

\*\*Received Annual Conference Poster Award and Recognition in the Clinical Research Management Category

## Study Coordinator for Studies

Efficacy of Bioabsorbable Staple Line Reinforcement in Colorectal and Coloanal Anastomoses: A Prospective Randomized Study

Principal Investigator: Conor Delaney, MD, PhD

Sponsor: W.L. Gore & Associates

A Prospective Randomized Comparison of Pancreatic Stump Stapled Closure and Stapled Closure Utilizing an Autologous Falciform Patch in Patients Undergoing Distal Pancreatectomy

Principal Investigator: Jeffrey Hardacre, MD

Sponsor: Department of Surgery

Pilot Study Evaluating the Efficacy of AlloMEM in Prevention of Intraperitoneal Adhesions and Peritoneal Regeneration after Loop Ileostomy

Principal Investigator: Conor Delaney, MD, PhD

Sponsor: Proxy Biomedical Limited and Community Tissue Services

Circular Anal Dilator for Transanal Hemorrhoidectomy

Principal Investigator: Brad Champagne, MD

Sponsor: Ethicon-Endosurgery INC

A Randomized Trial Comparing Outcomes for the Ligasure and Disposable Stapling Instruments for Laparoscopic Colectomy

Principal Investigator: Conor Delaney, MD, PhD

Sponsor: Tyco Healthcare/Valley Labs

A Phase III Prospective Randomized Trial Comparing Laparoscopic-Assisted Resection Versus Open Resection of Rectal Cancer

Principal Investigator: Conor Delaney, MD, PhD

Sponsor: American College of Surgeons Group

A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Intravenous (IV) Ulimorelin Administered Post-Operatively to Accelerate Recovery of Gastrointestinal (GI) Motility in Subjects Who Have Undergone Partial Bowel Resection (IRB# 2-11-05)

Principal Investigator: Sharon L. Stein, MD

Sponsor: Tranzyme Inc.

Hernia Repair Database

Principal Investigator: Michael Rosen, MD

Sponsor: None

## **Tina Seafler, RN**

### **Research Nurse**

Tina has almost 30 years of clinical nursing experience. Tina started her nursing career working with post op surgical patients and in cardiology. She then moved into the role of a Nurse Specialist working closely with patients in the office setting and performing nuclear stress testing. Her interest in research developed when she was a clinical coordinator for a program looking at peripheral artery disease. She also worked in the community screening and educating for wellness and prevention. She has assisted on research projects that focused on risk factors associated with diabetes and cardiovascular disease. She currently coordinates clinical trials in the Department of Surgery on several PI-initiated and sponsored studies. She is excited to be working in the clinical research department at UHCMC working closely with patients and improving patient care.

## **CONFERENCE PRESENTATIONS**

Poster Presentation:

"Communication Tool for Perioperative Research Study Patients", M.A. Domanovic, C. Seafler, L. Canala, B. O'Brien-Ermlich. 2011 Association of Perioperative Registered Nurses National Conference.

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## **STUDY COORDINATOR FOR STUDIES**

Prospective Randomized Controlled Trial of Traditional Laparoscopic Cholecystectomy versus SILS™ Port Laparoscopic Cholecystectomy

Principal Investigator: Raymond Onders, MD

Sponsor: Covidien

Evaluation of Postoperative Pain Following Laparoscopic Hernia Repair: A Prospective, Randomized Comparison to evaluate the incidence of postoperative pain associated with absorbable fixation (AbsorbaTack) vs. conventional fixation (ProTack) following laparoscopic hernia repair

Principal Investigator: Jeffrey Ponsky, MD

Sponsor: Covidien

Prospective, Multicenter, Observational Study To Evaluate Single-Stage Open Complex Ventral Incisional Hernia Repair Using a Bioabsorbable Material For Midline Fascial Closure Reinforcement (GORE® BIO-A® Tissue Reinforcement)

Principal Investigator: Michael Rosen, MD

Characterization of Explanted Hernia Meshes from Human Subjects: A Multi-Center, Prospective Study

Principal Investigator: Michael Rosen, MD

The Challenge of Assessing Infectious Risk and Visceral Closure in NOTES: A Prospective Study Examining Routine Colorectal Surgery as a Model in Humans  
 Principal Investigator: Jeffrey Marks, MD

Randomized Control Trial of Biologic Mesh (XenMATRIX™) vs. Component Separation Alone in Contaminated Ventral Hernia Repair: A Pilot Study  
 Principal Investigator: Michael Rosen, MD  
 Sponsor: Davol

Quality of Life Evaluations in Patients with Abdominal Wall Hernia  
 Principal Investigator: Michael Rosen, MD

Evaluation of a Novel Endoscopic Suturing Device in a Treat and Resect Model  
 Principal Investigator: Jeffrey Marks, MD  
 Sponsor: Apollo-Endosurgery

Evaluation of a Novel Endoscopic Polypectomy Device in Excised Human Colon and Gastric Tissue  
 Principal Investigator: Jeffrey Marks, MD  
 Sponsor: Apollo-Endosurgery



**DIAPHRAGM PACING RESEARCH UPDATE**

There have now been over 500 Diaphragm Pacing Systems (DPS) implanted worldwide for various indications since the first implant over 10 years ago. The first patient continues to utilize the device 24 hours a day. Diaphragm Pacing (DP) was initially approved for Spinal Cord Injury (SCI) in June 2008. Since that time, we have implanted many SCI patients from around the country at University Hospitals Case Medical Center (UHCMC). DPS has freed over 100 SCI persons from mechanical ventilation. Diaphragm pacing changes the lives of its users. It stimulates physiologic breathing and decreases pneumonias. It enables people to speak more normally, improves the sense of smell, increases mobility, and sense of independence.

Diaphragm Pacing received FDA approval as a HDE this past year in Amyotrophic Lateral Sclerosis (ALS), also called Lou Gerhig's disease. This disease is a progressive neurodegenerative disease of unknown cause that has devastating effects on the muscle of the respiratory system. The multi-center clinical trial data showed DP significantly improved survival in this population.

A series of pediatric spinal cord patients have been implanted under a separate IRB protocol. This data with highlights on the differences between the pediatric and adult patient were presented at The 12<sup>th</sup> Annual Pediatric Trauma Symposium in April 2011.

#### Some highlights in 2011:

- HDE approval for Diaphragm Pacing in Amyotrophic Lateral Sclerosis. DP is 2<sup>nd</sup> FDA approved therapy to treat ALS.
- Two podium presentations were presented at the 22<sup>nd</sup> International ALSMND symposium.
- Papers were also presented at 13<sup>th</sup> International Conference on Home Mechanical Ventilation and 4<sup>th</sup> European Respiratory Care Association Congress, Barcelona, March 17<sup>th</sup>, 2012.
- The first two UHCMC patients with post cardiac surgery phrenic nerve neuropathy were implanted. Both successfully weaned off mechanical ventilation and were able to have tracheostomies removed.
- Patients with Central Hypoventilation Syndrome and Central Sleep Apnea were implanted.

#### DIVISION OF SURGICAL ONCOLOGY CLINICAL RESEARCH UPDATE

Research activities within the Division of Surgical Oncology span clinical, translational and basic and are funded from a variety of sources including the National Institutes of Health, cooperative oncology groups such as NSABP, and industry. Extramural grant support within the Division ranks as one of the highest within the Department of Surgery. Dr. Julian Kim is the principal investigator of an NIH award which aims to develop novel methods of adoptive immunotherapy of cancer using T cell receptor molecular signatures. The data from this NIH study is currently being used to develop a Phase I study of adoptive immunotherapy of patients with metastatic melanoma. Preclinical mouse studies are also being conducted within the Kim lab on regulation of macrophages as a cancer therapy using the development of nanoparticles to target tumor-associated macrophages for therapy and imaging. Dr. Jeffrey Hardacre is principal investigator on a Phase II study evaluating a novel hyperacute pancreatic cancer vaccine in patients with resected pancreatic cancer, and he will serve as the national principal investigator in the planned Phase III pivotal FDA registration trial. Dr. Robert





Shenk is a co-investigator on an NIH grant in collaboration with the Department of Human Genetics and has teamed with Dr. Janice Lyons in the Department of Radiation Oncology to develop methods of partial breast irradiation. Dr. Rosemary Leeming is the institutional principal investigator and oversees all NSABP studies in patients with breast and colorectal cancers, which constitutes a significant proportion of all clinical trial activity within the UH Seidman Cancer Center. Finally, Dr. John Ammori has competed for and received an institutional NIH K12 career development award for work examining T cells responses in draining lymph nodes in patients with pancreatic cancer which will commence in July 2012.

### IRB-Approved Clinical Trials

- "Molecular Analysis of T Cell Clones for Adoptive Therapy" (Kim, PI). Sponsor- NIH/NCI.
- "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" (Kim, PI). Sponsor- Neoprobe Corporation.
- "A Phase III Clinical Trial to Evaluate the Safety and Efficacy of Treatment with 2 mg Intralesional Allovectin-7 Compared to Dacarbazine (DTIC) or Temozolomide (TMZ) in Subjects with Recurrent Metastatic Melanoma" (Kim, PI). Sponsor- Vical Corporation.
- "A Phase II Study of Hyperacute Pancreatic Cancer Vaccine in Subjects with Surgically Resected Pancreatic Cancer" (Hardacre, PI). Sponsor- NewLink Genetics Corporation.
- "A Prospective, Randomized Comparison of Pancreatic Stump Closure Techniques Utilizing an Autologous Falciform Patch and Fibrin Glue Compared to Standard Closure Following Distal Pancreatectomy with or without Splenectomy". (Hardacre, PI).
- NSABP B-37 "A Randomized Clinical Trial of Adjuvant Chemotherapy for Radically Resected Loco-Regional Relapse of Breast Cancer". (Leeming, PI).
- NSABP B-39 "A Randomized Phase III Study of Conventional Whole Breast Irradiation versus Partial Breast Irradiation for Women with Stage 0-II Breast Cancer. (Leeming, PI).
- NSAPB B-40 "A Randomized Phase III Trial of Neoadjuvant Therapy in Patients with Palpable and Operable Breast Cancer Evaluating the Effect on Pathologic Complete Response (pCR) of Adding Capecitabine or Gemcitabine to Docetaxel when Administered Before AC with or without Bevacizumab and Correlative Science Studies Attempting to Identify Predictors of High Likelihood for pCR with Each of the Regimens". (Leeming, PI).
- NSABP B-41 "A Randomized Phase III Trial of Neoadjuvant Therapy for Patients with Palpable and Operable HER2-Positive Breast Cancer Comparing the Combination of Trastuzumab and Lapatinib to Trastuzumab and to Lapatinib Administered with Weekly Paclitaxel Following AC Accompanied by Correlative Science Studies to Identify Predictors of Pathologic Complete Response". (Leeming, PI).
- NSABP B-42 "A Clinical Trial to Determine the Efficacy of Five Years of Letrozole Compared to Placebo in Patients Completing Five Years of Hormonal Therapy Consisting of an Aromatase Inhibitor or Tamoxifen Followed by an AI in Prolonging Disease-Free Survival in Post-Menopausal Women with Hormone Receptor Positive Breast Cancer". (Leeming, PI).
- NSABP FB-5 "A Phase II Clinical Trial of Epirubicin Plus Cyclophosphamide Followed by Docetaxel Plus Trastuzumab and Bevacizumab Given as Neoadjuvant Therapy for HER2-Positive Locally Advanced Breast Cancer or Given as Adjuvant Therapy for HER2-Positive Pathologic Stage III Breast Cancer". (Leeming, PI).
- NSAPB B-43 "A Phase III Clinical Trial Comparing Trastuzumab Given Concurrently with Radiation Therapy and Radiation Therapy Alone for Women with HER2-Positive Ductal Carcinoma In Situ Resected by Lumpectomy". (Leeming, PI).
- NSABP B-44I "A Multicenter Phase III Randomized Trial of Adjuvant Therapy for Patients with HER2-Positive Node-Positive or High Risk Node-Negative Breast Cancer Comparing Chemotherapy Plus Trastuzumab with Chemotherapy plus Trastuzumab plus Bevacizumab". (Leeming, PI).

- ICC5102 Expression of Estrogen Regulation Genes. PI: M. Montano, Ph. D.
- CWRU 11107 Partial Breast Re-Irradiation for Patients with Ipsilateral Breast Tumor Recurrence, After First Being Treated with Breast Conservation for Early Stage Breast Cancer: An Efficacy Trial Comparing Mammosite and Intraoperative Radiation. PI: J. Lyons, M.D.
- CWRU Feasibility and Efficacy of Breast Conserving Surgery in Patients with MRI Detected Multicentric Breast Cancer. PI: J. Lyons, M.D.

#### IACUC approved animal protocols:

- CASE 2012-0019: Adoptive immunotherapy using ex vivo activated melanoma-draining lymph node (MDLN) T cells against human melanoma xenografts.
- CASE 2010-0127: Modulation of mammary tumor growth, metastasis and tumor-induced immune suppression.
- CASE 2010-0152: Effects of KLF4 knock-out macrophages on B16 melanoma murine model.



#### Research Grants and Awards

##### Julian Kim, MD

Funding source	NIH/NCI
Role on project	Principal investigator
Project title	Molecular Analysis of T Cell Clones for Adoptive Therapy
Project period	9/30/06-9/30/12
Award amount (total)	\$672,300

Funding source	Vical Corporation
Role on project	Principal Investigator
Project title	A Phase III Clinical Trial to Evaluate the Safety and Efficacy of Treatment with 2 mg Intralesional Allovectin-7 Compared to Dacarbazine (DTIC) or Temozolomide (TMZ) in Subjects with Recurrent Metastatic Melanoma

Funding source Neoprobe Corporation  
 Role on project Principal Investigator  
 Project title 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

**Rosemary Leeming, MD**

Funding source National Surgical Adjuvant Breast and Bowel Project  
 Role on project Principal Investigator  
 Project title NSABP studies

**Jeffrey Hardacre, MD**

Funding source NewLink Genetics Corp  
 Role on project Principal Investigator  
 Project title A Phase 3 Study of Chemotherapy and Chemoradiotherapy with or without HyperAcute®-Pancreatic Cancer Vaccine in Subjects with Surgically Resected Pancreatic Cancer

**Scott Wilhelm, MD**

Funding source NIH/NCI R01 (pending)  
 Role on project Co-investigator (Dean Nakamoto, PI)  
 Project title Modeling Via MRI for Detecting Thyroid Cancer

**Robert Shenk, MD**

Funding source NIH/NCI R21  
 Role on project Co-Investigator (Louise Acheson, PI)  
 Project title Evaluation of Genetic Risk Easy Assessment Tool

Funding source Case 1104  
 Role on project Co-Investigator (Maryann Fitzmaurice, PI)  
 Project title Laser Spectroscopy of Breast Tissue

Funding source NIH/NCI R18 (pending)  
 Role on project Co-investigator (Jason Sohn, PI)  
 Project title Use of Biometric Patient Identification System Prior to Medical

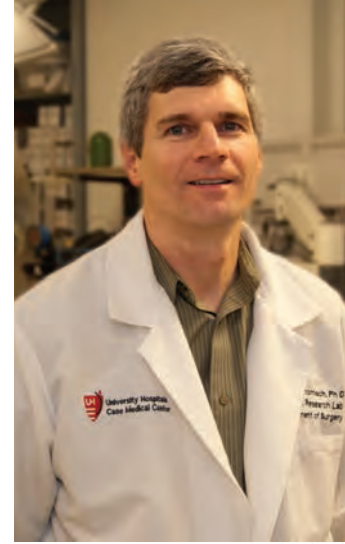
## BASIC SCIENCE UPDATE

### Steve Schomisch, PhD, Clinical Instructor, CWRU

#### Director of the Surgical Research and Skills Lab

Dr. Schomisch was recruited from the Center for Anesthesia Research at the Cleveland Clinic in 1998. Dr. Schomisch received his undergraduate degree from John Carroll University and his PhD in regulatory biology from Cleveland State University.

Dr. Schomisch is responsible for all operations of the Surgical Research and Animate Skills Lab, including: supervision and training of technical support staff, surgical residents and students; use of space and equipment; documentation of laboratory budget; assisting investigators with experimental design, feasibility of techniques and planning of technical aspects of projects, conducting experimental studies, preparing and managing IACUC protocols and coordinating training courses. Dr. Schomisch has authored or co-authored 30 publications in various journals, including the Annals of Thoracic Surgery and Surgical Endoscopy.



### Jeffrey Blatnik, MD and David Krpata, MD

#### Dudley P. Allen Research Scholars

Our research scholars are currently performing studies on acute and chronic ventral hernia models. Their studies are investigating immune response to synthetic and biologic mesh, mesh-related infections, antibiotic impregnated mesh, abdominal wall remodeling following hernia formation, pediatric laparoscopic inguinal hernia repair and fibrin glue application of mesh at the hiatus.

## BASIC RESEARCH GRANTS AND AWARDS

### Steve Schomisch / Jeffrey Marks

Funding source: Acell Inc  
 Role on project: Co-investigators  
 Project title: Circumferential Esophageal Endoscopic Mucosal Resection  
 Project period: 10/30/11-  
 Award amount (total): \$10,000

### Steve Schomisch / Jeffrey Marks

Funding source: W.L. Gore and Associates  
 Role on project: Co-investigators  
 Project title: Evaluation of a Novel, Removable Ileostomy Device  
 Project period: 1/01/12-  
 Award amount (total): \$12,483

### Jeffrey Blatnik / David Krpata / Michael Rosen

Funding source: Baxter Healthcare  
 Role on project: Co-investigators  
 Project title: Fibrin Glue for Fixation of Mesh at Hiatus  
 Project period: 6/30/10-  
 Award amount (total): \$44,373



**Jeffrey Blatnik / David Krpata / Michael Rosen**

Funding source: Cook Biomedical  
 Role on project: Co-investigators  
 Project title: Evaluation of a Novel Mesh in the Setting of Infection in a Porcine Model  
 Project period: 1/30/11-  
 Award amount (total): \$59,709

**Jeffrey Blatnik / David Krpata / Michael Rosen**

Funding source: Kensey Nash  
 Role on project: Co-investigators  
 Project title: Role of Infection in Ventral Hernia Repair  
 Project period: 6/30/10-  
 Award amount (total): \$31,530

**Jeffrey Blatnik / David Krpata / Michael Rosen**

Funding source: Novus Scientific  
 Role on project: Co-investigators  
 Project title: Role of Infection in Ventral Hernia Repair  
 Project period: 6/30/10-  
 Award amount (total): \$19,019

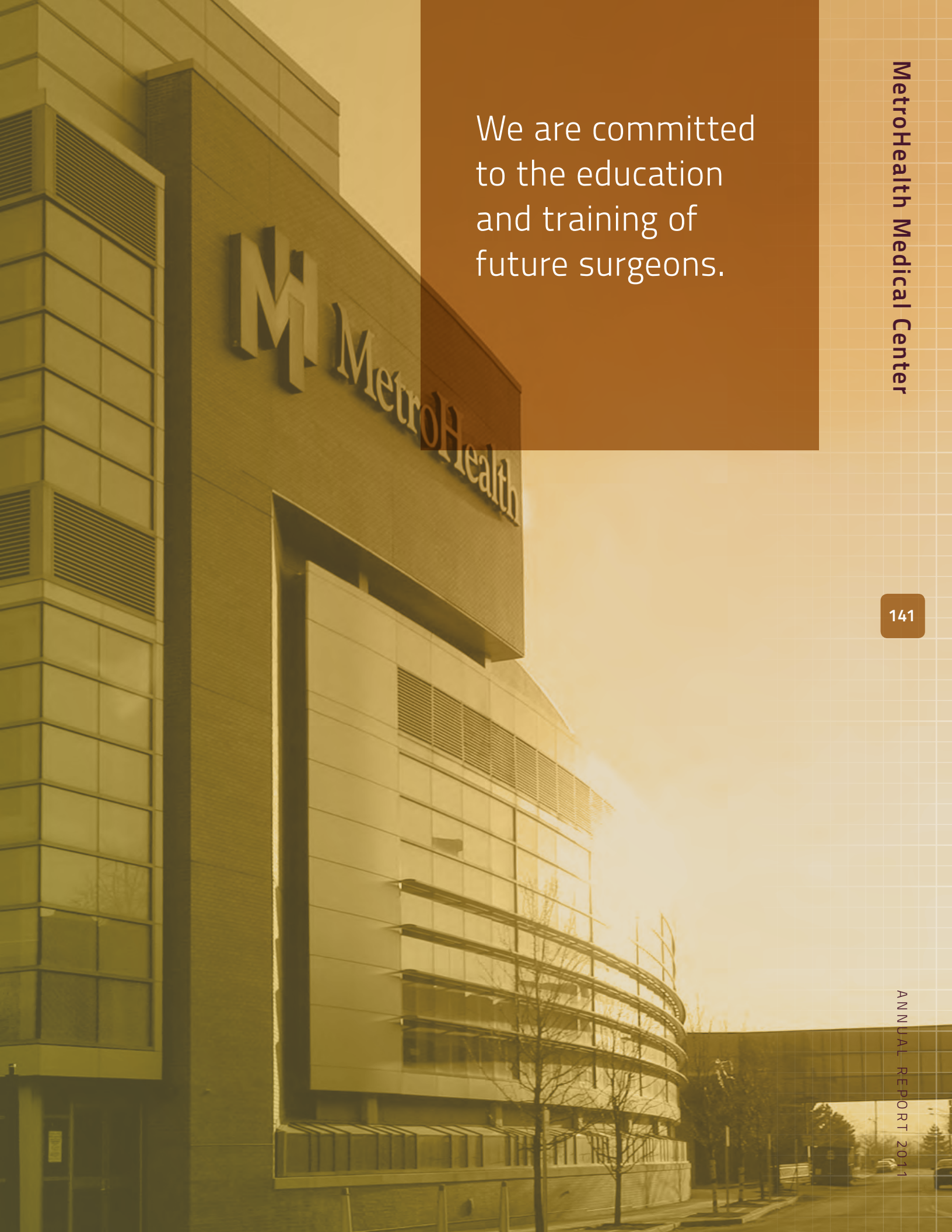
**Jeffrey Blatnik / David Krpata / Michael Rosen**

Funding source: Coulter Foundation  
 Role on project: Co-investigators  
 Project title: Antibiotic Delivery Materials-Phase II of a Novel Synthetic Mesh  
 Project period: 3/1/10-  
 Award amount (total): \$120,000

**Jeffrey Blatnik / David Krpata / Michael Rosen**

Funding source: SAGES Foundation  
 Role on project: Co-investigators  
 Project title: Evaluation of Tension Free Ventral Hernia Repair  
 Project period: 6/30/10-  
 Award amount (total): \$25,000





We are committed  
to the education  
and training of  
future surgeons.

MetroHealth Medical Center is the public hospital for Cuyahoga County, Ohio. MetroHealth serves as the American College of Surgeons Committee on Trauma and State of Ohio verified Level I Trauma Center and Level I Burn Center for the area. MetroHealth is also a Level II verified Pediatric Trauma Center. The hospital functions as the tertiary care referral center for the west side of Cleveland and the surrounding counties, providing a rich and diverse mix of patients.



Christopher P. Brandt, MD

The Department of Surgery provides a full spectrum of clinical services, including Divisions of: General Surgery, with specialists in colorectal, endocrine, hepatobiliary, bariatric surgery, endoscopy, and advanced laparoscopic procedures; Surgical Oncology, with emphasis in the care of breast cancer and melanoma; Trauma, Burns, and Surgical Critical Care; Vascular Surgery, including endovascular procedures; Pediatric Surgery; Plastic and Reconstructive Surgery; Oral and Maxillofacial Surgery; Cardiothoracic Surgery; Ophthalmology; and Urology. The residency in Surgical Critical Care is based at MetroHealth and is approved to train two fellows each year.

MetroHealth is fully integrated with the surgical residency program and all faculty have full-time appointments at the Case Western Reserve University School of Medicine. The Department had more than 4,500 surgical admissions, 2,400 trauma and 160 burn unit admissions. Our faculty performed 7,300 operations, and saw more than 70,000 surgical outpatient visits in 2011. The Medical Center has over 100,000 emergency department visits each year. The resources of the Institution and Department include 24 state-of-the-art surgical suites, and 27 Surgical Intensive Care unit beds. There is a laparoscopic skills training facility for use by the Surgery residents, with plans for opening a full Simulation Center later this year.

The Department takes great pride in resident and medical student education and research. There are numerous educational conferences scheduled weekly. The faculty hold leadership positions within the Institution, the University, and in local, state, regional, and national professional organizations, including the American College of Surgeons and the American Board of Surgery. Faculty members have regularly received teaching awards from the Department and School of Medicine and are active in surgical education at a national level.

We are committed to the education and training of future surgeons in Surgery and its specialties. Our core value is that surgical care should be of high quality, patient-centered, humane, responsive, and readily accessible to all.

Christopher P. Brandt, MD  
 Professor, Case Western Reserve University  
 Chair, Department of Surgery  
 MetroHealth Medical Center



All MetroHealth Medical Center faculty have full-time appointments at Case Western Reserve University.





### Christopher P. Brandt, MD

Chair, Department of Surgery  
 Professor, Case Western Reserve University  
 General Surgery, Surgical Endoscopy, Laparoscopy, Burns

**Medical School:** Case Western Reserve University, Cleveland, Ohio  
**Residency:** University Hospitals, Cleveland, Ohio

## Cardiothoracic Surgery

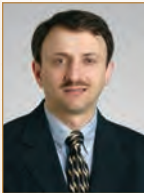
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### Inderjit Gill, MD

Director, Division of Cardiothoracic Surgery  
 Cardiothoracic Surgery

**Medical School:** Christian Medical College, India  
**Residency:** University of Ottawa, Canada; Christian Medical College, India; Colchester General Hospital, England; Hull Royal Infirmary, U.K.  
**Fellowship:** University of Ottawa, Canada; Cleveland Clinic Foundation, Cleveland, Ohio



### Rami Akhrass, MD

Cardiothoracic Surgery

**Medical School:** Damascus University, Syria  
**Residency:** University Hospitals of Cleveland, Cleveland, Ohio  
**Fellowship:** Cleveland Clinic Foundation, Cleveland, Ohio; University Hospitals of Cleveland, Cleveland, Ohio



### R. Thomas Temes, MD

Thoracic Surgery

**Medical School:** Johns Hopkins University, Baltimore, Maryland  
**Residency:** University of California-Davis Medical Center, Sacramento, California  
**Fellowship:** Barnes-Jewish Hospital, St. Louis, Missouri



### Joseph Lahorra, MD

Cardiothoracic Surgery

**Medical School:** Johns Hopkins University School of Medicine, Baltimore, Maryland  
**Residency:** University Hospitals of Cleveland, Cleveland, Ohio  
**Fellowship:** Massachusetts General Hospital, Boston, Massachusetts

## General Surgery

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### Christopher R. McHenry, MD

Vice Chair, Department of Surgery  
 Director, Division of General Surgery  
 Professor, Case Western Reserve University  
 General Surgery, Endocrine Surgery, Head and Neck Surgery

**Medical School:** Northeastern Ohio Universities College of Medicine, Rootstown, Ohio  
**Residency:** Loyola University Chicago, Maywood, Illinois  
**Fellowship:** University of Toronto Mount Sinai Hospital, Canada



### Christopher P. Brandt, MD

Chair, Department of Surgery  
 Professor, Case Western Reserve University  
 General Surgery, Surgical Endoscopy, Laparoscopy, Burns

**Medical School:** Case Western Reserve University, Cleveland, Ohio  
**Residency:** Case Western Reserve University, University Hospitals, Cleveland, Ohio



### Walter S. Cha, MD

Assistant Professor, Case Western Reserve University  
 Director of Bariatric Surgery, MetroHealth Medical Center  
 General and Bariatric Surgery

**Medical School:** Hahnemann University School of Medicine, Philadelphia, Pennsylvania  
**Residency:** MCP-Hahnemann University Hospitals, Philadelphia, Pennsylvania; General Surgery, Temple University Hospitals, Philadelphia, Pennsylvania



### Jeremy M. Lipman, MD

Assistant Professor, Case Western Reserve University School of Medicine  
 Colorectal Surgery, Surgical Endoscopy, Minimally Invasive Surgery

**Medical School:** Drexel University College of Medicine  
**Residency:** Case Western Reserve University; University Hospitals, Cleveland, Ohio  
**Fellowship:** Cleveland Clinic, Cleveland, Ohio



### Paul P. Priebe, MD

Associate Professor, Case Western Reserve University  
 General Surgery, Surgical Endoscopy

**Medical School:** Medical College of Wisconsin, Milwaukee, Wisconsin  
**Residency:** University Hospitals of Cleveland, Cleveland, Ohio  
**Fellowship:** University Hospitals of Cleveland, Cleveland, Ohio

## Oral and Maxillofacial Surgery



### Jon P. Bradrick, DDS

Director, Division of Oral and Maxillofacial Surgery  
 Associate Professor, Case Western Reserve University  
 Oral and Maxillofacial Surgery

**Dental School:** University of Iowa, Iowa City, Iowa  
**Residency:** MetroHealth Medical Center, Cleveland, Ohio; University of Chicago, Chicago, Illinois



### Alan Y. Martinez, DDS

Full Time Faculty, Division of Oral and Maxillofacial Surgery  
 Oral and Maxillofacial Surgery

**Dental School:** Universidad Nacional Autonoma de Honduras  
**Residency:** Peruvian Universtiy Cayetano Heredia

## Plastic and Reconstructive Surgery

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### **Roderick B. Jordan, MD**

**Director, Division of Plastic and Reconstructive Surgery**  
**Assistant Professor, Case Western Reserve University**  
 Plastic Surgery

**Medical School:** Case Western Reserve University, Cleveland, Ohio

**Residency:** University Hospitals of Cleveland, Cleveland, Ohio



### **Bram R. Kaufman, MD**

**Assistant Professor, Case Western Reserve University**  
 Plastic Surgery

**Medical School:** Case Western Reserve University, Cleveland, Ohio

**Residency:** University Hospitals of Cleveland, Cleveland, Ohio

**Fellowship:** University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania



### **Daniel A. Medalie, MD**

**Assistant Professor, Case Western Reserve University**  
 Plastic Surgery

**Medical School:** Cornell University Medical College, New York, New York

**Residency:** University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania



### **Ali Totonchi, MD**

**Assistant Professor, Case Western Reserve University**  
 Plastic and Reconstructive Surgery, Craniofacial and Facial Cosmetic Surgery

**Medical School:** Tabriz University of Medical Sciences

**Residency:** University Hospitals of Cleveland, Cleveland, Ohio

**Fellowship:** University Hospitals of Cleveland, Cleveland, Ohio

## Surgical Oncology

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### **Bruce A. Averbook, MD**

**Associate Professor, Case Western Reserve University**  
 General Surgery, Surgical Oncology

**Medical School:** George Washington University, Washington, D.C.

**Residency:** University of California Irvine Medical Center, Orange, California; National Cancer Institute, Bethesda, Maryland



### **Natalie E. Joseph, MD**

**Assistant Professor, Case Western Reserve University**  
 Surgical Oncology

**Medical School:** Temple University School of Medicine, Philadelphia, Pennsylvania

**Residency:** Case Western Reserve University, Cleveland, Ohio

**Fellowship:** Surgical Oncology, Fox Chase Cancer Center



### Edward G. Mansour, MD

Professor Emeritus, Case Western Reserve University  
Surgical Oncology, General Surgery

**Medical School:** American University of Beirut, Lebanon  
**Residency:** MetroHealth Medical Center, Cleveland, Ohio



### Jean T. Stevenson, MD

Associate Professor, Case Western Reserve University  
Surgical Oncology, General Surgery

**Medical School:** Medical College of Virginia, Richmond, Virginia  
**Residency:** University Hospitals of Cleveland, Cleveland, Ohio

## Trauma, Critical Care and Burns



### Jeffrey A. Claridge, MD

Division Director, Trauma, Critical Care and Burns  
Assistant Professor, Case Western Reserve University  
Interim Director, Section of Trauma  
Surgery, Trauma and Critical Care, Bariatric Surgery

**Medical School:** University of Rochester, Rochester, New York  
**Residency:** University of Virginia, Charlottesville, Virginia  
**Fellowship:** University of Tennessee, Memphis, Tennessee



### John J. Como, MD

Associate Professor, Case Western Reserve University  
Associate Director, Section of Trauma  
Trauma Surgery, General Surgery, Critical Care

**Medical School:** Robert Wood Johnson University Hospital, New Brunswick, New Jersey  
**Residency:** Beth Israel Medical Center, New York, New York; North Shore University Hospital, Manhasset, New York  
**Fellowship:** University of Maryland, Baltimore, Maryland



### Richard B. Fratianne, MD

Director Emeritus, Comprehensive Burn Care Center  
Professor Emeritus, Case Western Reserve University  
Burns, Critical Care

**Medical School:** Case Western Reserve University, Cleveland, Ohio  
**Residency:** MetroHealth Medical Center, Cleveland, Ohio



### Amy Ann McDonald, MD

Assistant Professor, Case Western Reserve University  
Trauma Surgery, General Surgery, Critical Care

**Medical School:** Indiana University, Indianapolis, Indiana  
**Residency:** University Hospitals of Cleveland, Cleveland, Ohio  
**Fellowship:** MetroHealth Medical Center, Cleveland, Ohio





### David Porembka, DO

Co-Director, Surgical Intensive Care Unit  
 Professor, Case Western Reserve University  
 Anesthesia, Critical Care Medicine

**Medical School:** Michigan State University College of Osteopathic Medicine, East Lansing, Michigan  
**Residency:** Botsford Hospital, Farmington Hills, Michigan; Cleveland Clinic Foundation, Cleveland, Ohio  
**Fellowship:** Cleveland Clinic Foundation, Cleveland, Ohio



### Charles J. Yowler, MD

Director, Comprehensive Burn Care Center  
 Professor, Case Western Reserve University  
 Trauma Surgery, Burns, Critical Care

**Medical School:** Creighton University, Omaha, Nebraska  
**Residency:** Walter Reed Army Medical Center, Washington, D.C.  
**Fellowship:** Walter Reed Army Medical Center, Washington, D.C.

## Vascular Surgery



### J. Jeffrey Alexander, MD

Director, Division of Vascular Surgery  
 Associate Professor, Case Western Reserve University

**Medical School:** University of Pittsburgh, Pittsburgh, Pennsylvania  
**Residency:** University of Chicago, Chicago, Illinois  
**Fellowship:** University of Chicago, Chicago, Illinois

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### Mireille Astrid Moise, MD

Vascular Surgery


**Medical School:** University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania  
**Residency:** Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania  
**Fellowship:** Cleveland Clinic Foundation, Cleveland, Ohio



### Christopher J. Smith, MD

Director, Endovascular Surgery  
 Assistant Professor, Case Western Reserve University  
 Vascular Surgery/Endovascular Surgery

**Medical School:** Tufts University School of Medicine, Boston, Massachusetts  
**Residency:** Case Western Reserve University, Cleveland, Ohio  
**Fellowship:** University of Cincinnati, Cincinnati, Ohio



The MetroHealth  
Medical Center  
Divisions of  
Surgery provide a  
full spectrum of  
clinical services.

**STAFF/FACULTY****Division of Cardiothoracic Surgery**

Inderjit S. Gill, MD, Director  
 Rami Akhrass, MD  
 R. Thomas Temes, MD  
 Joseph Lahorra, MD

**Division of General Surgery**

Christopher R. McHenry, MD, Director  
 Bruce J. Averbook, MD  
 Christopher P. Brandt, MD  
 Walter S. Cha, MD  
 Natalie Joseph, MD  
 Jeremy Lipman, MD  
 Paul P. Priebe, MD  
 Jean T. Stevenson, MD

**Division of Oral and Maxillofacial Surgery**

Jon P. Bradrick, DDS, Director  
 Alan Y. Martinez, DDS

**Division of Plastic and Reconstructive Surgery**

Roderick B. Jordan, MD, Director  
 Bram R. Kaufman, MD  
 Daniel A. Medalie, MD  
 Ali Totonchi, MD

**Division of Surgical Oncology**

Christopher R. McHenry, MD, Acting Director  
 Bruce J. Averbook, MD  
 Natalie Joseph, MD  
 Edward G. Mansour, MD  
 Jean T. Stevenson, MD

**Division of Trauma, Critical Care and Burns**

Jeffrey A. Claridge, MD, Director  
 Christopher P. Brandt, MD  
 John J. Como, MD  
 Richard B. Fratianne, MD  
 Amy A. McDonald, MD  
 David Porembka, DO  
 Charles J. Yowler, MD

**Division of Vascular Surgery**

J. Jeffrey Alexander, MD, Director  
 Mireille Astrid Moise, MD  
 Christopher J. Smith, MD

**RESIDENT/FELLOW PROGRAM**

The Department of Surgery at MetroHealth Medical Center (MHMC) is a major affiliate hospital for the surgical residency programs of Case Western Reserve University. General surgery residents have educational rotations at MHMC on General Surgery, Vascular Surgery, Thoracic Surgery, Burn Surgery, Pediatric Surgery, Trauma Surgery, and Surgical Critical Care. General surgery residents spend nearly half of their residency at MHMC. Residents from a number of other residency programs in the region, including the Cleveland Clinic Foundation, Akron General Hospital, and the South Pointe Consortium, send residents for additional and Surgical Critical Care services. Residents from specialty programs, including Neurosurgery, Urology, Otolaryngology, and Plastic Surgery, undertake a significant portion of their training at MHMC.

In addition to ongoing teaching and training at MHMC in areas of particular expertise, such as Trauma, Burn, in the operating rooms, outpatient clinics and inpatient care units, the educational mission is enhanced by numerous teaching conferences, including a weekly General Surgery conference, Morbidity and Mortality conference, Grand Rounds, and weekly individual service conferences. Educational space has been renovated to provide residents and students with offices with computers as well as a surgical skills lab.



**Jennifer Lastic**  
 Surgical Education Coordinator

## HONORS AND AWARDS

### Bruce J. Averbok, MD

- US News and World Report Top Doctors 2011- and noted in Castle Connolly's estimation, to be among the top 1% in the nation in his or her specialty

### Christopher R. McHenry, MD

- Director, American Board of Surgery
- Board of Governors, American College of Surgeons
- Board of Governors Committee on Surgical Practices
- Surgical Oncology Board for the American Board of Surgery
- Board of Directors, Academy of Medicine of Cleveland and Northern Ohio
- Nominating Committee, Ohio Chapter of American College of Surgeons
- Best Doctors in America 2011-2012
- Editorial Board for the:
  - American College of Surgeons Web Portal
  - American Journal of Surgery
  - American Surgeon
- World Journal of Endocrine Surgery
- Board of Trustees, Brittingham Library

### John J. Como, MD

- Master of Public Health degree from CWRU, May 2011

## BOOK CHAPTERS

### Christopher R. McHenry, MD

- McHenry CR and Jin J. The Management of Thyroid Cancer. In: Current Surgical Therapy, 10<sup>th</sup> edition, Cameron JL and Cameron AM (eds), Elsevier Science, Philadelphia, PA, 2011: 602-610
- McHenry CR and Lo Cy. The Surgical Management of Hyperthyroidism. In: Surgery of the Thyroid and Parathyroid Glands second edition. Randolph (ed), Elsevier Science, Philadelphia, PA (in press)
- McHenry CR. Thyroidectomy and Parathyroidectomy. In: Netter's Surgical Anatomy and Approaches. Delaney CE (ed), Elsevier Science, Philadelphia, PA (in press).

## PUBLICATIONS

### Bruce J. Averbok, MD

- Averbok, B.J., District Councilor Reports: Northeast Ohio District. In "Pulse: The Official Newsletter of the Ohio Chapter American College of Surgeons." Winter 2010/2011, 20-21.
- Averbok, B.J., The Cleveland Medical Mart and Convention Center: Where Innovation and Education Meets Commerce. In "Pulse: The Official Newsletter of the Ohio Chapter American College of Surgeons." Winter 2010/2011, 23-24.
- Averbok, B.J., Invited Editorial: Mitotic Rate and Sentinel Lymph Node Tumor Burden Topography: Integration into Melanoma Staging and Stratification Use in Clinical Trials. *J. Clin Oncol* 29 (16): 2137-2141, 2011
- Averbok, B.J., Northeast Ohio District Councilor Report. In "Pulse: The Official Newsletter of the Ohio Chapter American College of Surgeons." Summer 2011, 35-36.
- White, RL, Stel, VH, Soong, S., Ding, S, Salo, JC, Pockaj, BA, Essner, R, Charney, KJ, Avisa, E, Hauschild, Averbok, BJ, Garberoglio, CA, Vetto, JT, Ross, MI, Gershenwald, JE, Biel, M, Chu, D, Trisal, J, Hoekstra, H, Whitman, E, Wanebo, HJ, DeBonis, D, Vezeridis, M, Chevinski, A, Kashani-Sabet, M, Leong, S. Factors Predictive of the Status of Sentinel and Non-Sentinel Lymph Nodes in Melanoma from a Large, Multi-center Database. *Annals of Surgical Oncology*, 18 (13):3593-600, 2011 (Epub Jun 7, 2011)



**John J. Como, MD**

- Cullinane DC, Schiller HJ, Zielinski MD, Bilaniuk JW, Collier BR, Como J, Holevar M, Sabater EA, Sems SA, Vassy WM, Wynne JL. Eastern Association for the Surgery of Trauma practice management guidelines for hemorrhage in pelvic fracture – update and systematic review. *J Trauma* 2011; 71: 1850-1868.
- Nahm NJ, Como JJ, Wilber JH, Vallier HA. Early appropriate care: definitive stabilization of femoral fractures within 24 hours of injury is safe in most patients with multiple injuries. *J Trauma* 2011; 71: 175-185.
- Como JJ, Leukhardt WH, Anderson JS, Wilczewski PA, Samia H, Claridge JA. Computed tomography alone may clear the cervical spine in obtunded blunt trauma patients - a prospective evaluation of a revised protocol. *J Trauma* 2011; 70: 345-351.

**Jeffrey A. Claridge, MD**

- Como JJ, Leukhardt WH, Anderson JS, Wilczewski PA, Samia H, Claridge JA. Computed Tomography Alone May Clear the Cervical Spine in Obtunded Blunt Trauma Patients: A Prospective Evaluation of a Revised Protocol. *Journal of Trauma*. 2011 Feb;70(2):345-51. (Peer Reviewed Manuscript)

**Christopher R. McHenry, MD**

- McHenry CR. Invited commentary: Endoscopic minimally invasive thyroidectomy (eMIT): A prospective proof of concept study in humans. *World J. Surg* 35 (3), 552, 2011.
- Wormer BA, McHenry CR. Hashimoto's thyroiditis. Outcome of surgical resection for patients with thyromegaly and compressive symptoms. *Am J. Surg* 201: 416-419, 2011
- Choi AH, Bohn OL, Beddow TD, McHenry CR. Inflammatory myofibroblastic tumor of the small bowel mesentery: an unusual cause of abdominal pain and uveitis. *J Gastrointest Surg* 15: 584-588, 2011
- McHenry CR, Phitayakorn R. Follicular adenoma and follicular carcinoma of the thyroid gland. *The Oncologist* 16 (5): 585-593, 2011
- Welch K and McHenry CR. Total Thyroidectomy for Graves' disease: Is the morbidity higher than for patient with nontoxic goiters. *J Surg Res* 170: 96-99, 2011
- Chen J, McHenry CR. Retroperitoneal cystic teratoma masquerading as an incidentally – discovered adrenal mass. *Endoc Pract.* 17: e130-e134, 2011
- McHenry CR. Prophylactic central neck dissection for papillary thyroid cancer. The search for justification continues. *Surgery* 150 (6): 1058-1060, 2011
- Welch K, McHenry CR. The role of transcervical thymectomy in patients with hyperparathyroidism. *Am J Surg* (in press)
- Jin J, Sandoval V, Lawless ME, Seghal A, McHenry CR. Disparity in the management of Graves' disease observed in an urban county hospital: A decade long experience. *Am J Surg* (in press).
- Richards MK, Slavin ER, Tamarkin SW, Machekano RN, McHenry CR. Technetium – 99m - sestamibi imaging: Are the results dependent on the reviewer. *J Surg Res* (in press).
- Chen J, Pace SC, Khiyami A, Chen BA, and McHenry CR. Yield of repeat fine needle aspiration biopsy and rate of malignancy in patients with atypia or follicular lesion of undetermined significance: The impact of the Bethesda System for Reporting Cytopathology Surgery (in press)
- PhitayaKorn R, McHenry CR. Preoperative considerations in patients with adrenal tumors: Seminars in Surgical Oncology: Adrenal Carcinoma. *Journal of Surgical Oncology* (in press)

**PRESENTATIONS AND INVITED LECTURESHIPS**

**Jon P. Bradrick, DDS**

- Bradrick JP. Surgery for Obstructive Sleep Apnea. Grand Rounds for the Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Medicine, Metrohealth Medical Center, January 10, 2011
- Bradrick JP. Bisphosphonates: The Good, the Bad and the Ugly. Presented at the Hillcrest Dental Study Club meeting, Beechwood, OH, April 11, 2011
- Bradrick JP. Bisphosphonates: The Good, the Bad and the Ugly. Presented at the OAIDT Dental Study Club, Middleburgh Heights, OH, April 13, 2011

**Christopher R. McHenry, MD**

- Thyroid nodules and thyroid cancer. The Academy of Medicine of Cleveland and Northern Ohio, Health Lines radio program January 31, 2011.
- Thyroidectomy for Cancer. Modern Evidence – Based Management of Thyroid Cancer. Post Graduate Course 97<sup>th</sup> Annual Clinical Congress, American College of Surgeons. San Francisco, California, October 24, 2011.
- Goiter Surgery – When and How? Meet the expert luncheon, 97<sup>th</sup> Annual Clinical Congress, American College of Surgeons, San Francisco, California, October 26, 2011
- Visiting Professor, University of Southern California, Keck School of Medicine, Los Angeles, California. Contemporary Management of Differentiated Thyroid Cancer, Nov, 18, 2011.



**Director**

Inderjit S. Gill, MD

**Faculty**

Rami Akhrass, MD

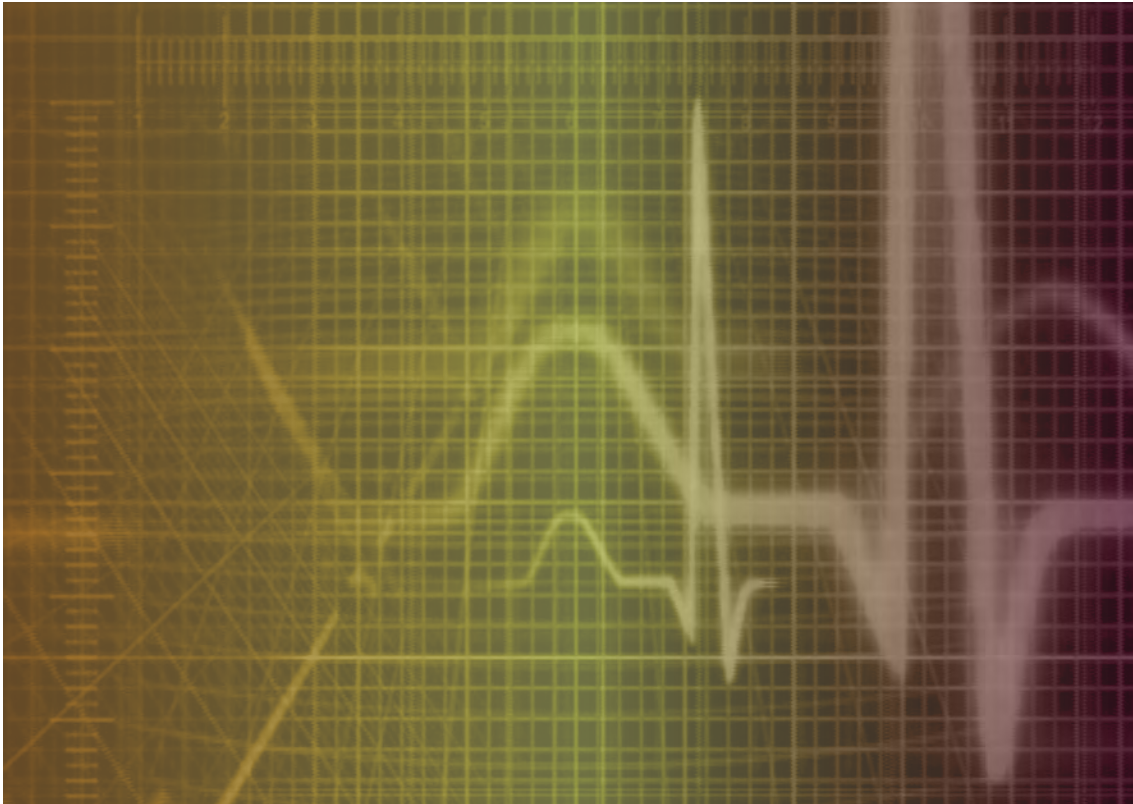
R. Thomas Temes, MD

Joseph Lahorra, MD



The Division of Cardiothoracic Surgery at MetroHealth Medical Center is committed to providing state-of-the-art cardiothoracic care. The service focuses on all aspects of adult cardiac and thoracic surgery including thoracic aortic surgery. We are actively involved in a variety of innovative methods, such as robotic cardiac surgery, beating heart surgery, minimal access approaches and endoscopic saphenous vein harvest.

The Division is involved in training general surgery residents on the thoracic surgery service. The educational responsibilities are complemented by clinical research and the Division has published regularly in peer reviewed journals on topics such as robotic cardiac surgery, traumatic aortic disruptions and other aspects of cardiac and thoracic surgery.





**Director**

Christopher McHenry, MD

**Staff/Faculty**

Bruce J. Averbrook, MD

Christopher P. Brandt, MD

Walter S. Cha, MD

Natalie Joseph, MD

Jeremy Lipman, MD

Paul P. Priebe, MD

Jean T. Stevenson, MD

Theresa Dowling, RN, MSN, CNP

Deb Valadez, RN, BSN



The Division of General Surgery is divided into two clinical services: a Green Surgery Service and a Blue Surgery Service. The Green Surgery Service consists of Drs. Brandt, Cha, Claridge, Como, and McHenry. The Blue Surgery Service consists of Drs. Averbook, Joseph, Lipman, McDonald, Priebe, Stevenson, and Ustin. One attending from each service covers the outpatient General Surgery responsibilities for a two-week interval. There is also an Acute Care Surgery service which handles all of the Emergency Department and inpatient General Surgery consultations. One General Surgeon covers the service for a one-week interval. The General Surgery attendings are responsible for training General Surgery residents and providing core training in General Surgery for 3rd and 4th year medical students.

There are several areas of specialized expertise in the Division of General Surgery including bariatric surgery, colorectal surgery, oncologic surgery, endocrine surgery, flexible endoscopy, gastrointestinal surgery, hepatobiliary surgery, pancreatic surgery, and advanced laparoscopy. MetroHealth Medical Center's bariatric program is led by Dr. Walter Cha, who is the Director of Weight Loss Surgery. Dr. Cha and Dr. Jeffrey Claridge

provide bariatric surgical services to morbidly obese patients. They work closely with their medical, mental health and nutritional colleagues in providing care in a multidisciplinary fashion. The majority of the procedures are performed using minimally invasive techniques.

Dr. Jeremy Lipman offers a wide range of colorectal disease treatments including the comprehensive, multidisciplinary management of colorectal malignancies, the coordinated care of patients with inflammatory bowel disease, the diagnosis and treatment of complex pelvic floor disorders, and minimally invasive surgery for both benign and malignant colorectal conditions. All patients treated for colorectal malignancies are managed by a team of care providers including physicians, nutritionists, nurses, geneticists, and others ensuring a comprehensive, patient-focused approach to cancer care. Patients with inflammatory bowel disease are cared for in coordination with a team of gastroenterologists ensuring the multidisciplinary needs of these patients are fully addressed. Together with colleagues from gastroenterology and urogynecology, women with pelvic floor disorders, including urinary and fecal incontinence, are treated by a team of physicians with special interests



in these areas. MetroHealth has a variety of physicians trained in minimally invasive surgery and are capable of offering laparoscopic and single incision colon resection for cancer and benign conditions.

Dr. Christopher McHenry has a focused interest in endocrine surgery and is involved with the treatment and follow-up of patients with endocrine tumors involving the thyroid, parathyroid and adrenal glands and the endocrine pancreas. Specialized endocrine evaluation and testing is performed in the outpatient surgery clinic. This includes fine needle aspiration biopsy of thyroid nodules, neck masses and cervical lymph node metastases; office-based ultrasound examination of the neck; vocal cord evaluation using flexible fiberoptic laryngoscopy; functional evaluation of adrenal and pancreatic tumors; and coordination of genetic testing for familial endocrinopathies. Modern, state-of-the-art surgical techniques are utilized for treatment of patients with endocrine tumors including: minimally invasive parathyroidectomy, and the use of the "quick PTH assay" for intraoperative parathyroid hormone monitoring and laparoscopic adrenalectomy.

Dr. Christopher Brandt has an interest in advanced laparoscopic techniques and has been a leader in this initiative for the Division of General Surgery. Minimally invasive procedures are presently performed at MetroHealth Medical Center for treatment of diseases of the adrenal gland, colon, small bowel, stomach, liver, and pancreas, as well as for the management of obesity, gastroesophageal reflux disease, achalasia and abdominal wall hernias. The use of laparoscopy in trauma and critical care patients has also been an active focus of clinical investigation.

Gastrointestinal surgery at MetroHealth Medical Center features expertise in gastroesophageal, pancreaticobiliary, liver and colorectal surgery. Expertise in open surgical techniques is now complemented by laparoscopic approaches to gastroesophageal reflux disease and diaphragmatic

hernia, hepatobiliary disease and colorectal disease. Gastrointestinal endoscopy is provided by our surgeons, including therapeutic endoscopy for benign and malignant esophageal disease, peptic ulcer disease and endoscopic retrograde cholangiopancreatography for biliary and pancreatic disease, as well as therapeutic colonoscopy for benign and malignant colonic disease. Dr. Paul Priebe has led the Division's efforts in flexible endoscopy and has had a strong interest in remedial gastrointestinal surgery.

There is a long track record for outstanding surgical education provided by the faculty in the Division of General Surgery at MetroHealth Medical Center. Seven faculty members have been awarded the faculty teaching award in the Department of Surgery at Case Western Reserve University. This is an award that is given based on voting by the residents in General Surgery. The past recipients of this award include: Drs. Brandt, Mansour, McDonald, McHenry, Priebe and Yowler. Dr. Joseph, recruited from the Fox Chase Cancer Center, has received an "Excellence in Teaching" award. The Division of General Surgery is responsible for six weekly educational conferences. There is a Blue Surgery Conference on Tuesday mornings and a Green Surgery Conference on Friday mornings in which residents and medical students are exposed to interactive case-based learning. Dr. Brandt leads the weekly Morbidity and Mortality Conference which occurs on Tuesday mornings. This is a quality assurance and improvement conference in which all surgery patients who develop a complication or die as a result of their surgical disease are critically reviewed. There is a General Surgery Conference on Thursday afternoons organized and moderated by Dr. McHenry, in which a wide variety of topics are reviewed, with special emphasis on surgical pathology, hematology/oncology, management of critically ill General Surgery patients and case management controversies. Dr. Jeremy Lipman is responsible for the Resident Education series occurring at MetroHealth Medical Center on Wednesday mornings.

Dr. Christopher Brandt is the Director for the Core Clerkship in Surgery for 3rd year medical students at MetroHealth Medical Center. He is responsible for the organization of the clerkship and evaluation of the students. He coordinates the didactic teaching sessions for the medical students in which all of the general surgical faculty participate.

Dr. Walter Cha is the Associate Program Director for the General Surgery Residency Program at MetroHealth.

The Division of General Surgery at MetroHealth Medical Center consists of 13 full-time and one part-time faculty member. Five surgeons have their principal appointment in the Division of General Surgery: Christopher P. Brandt, MD; Walter Cha, MD; Jeremy Lipman, MD; Christopher McHenry, MD; and Paul Priebe, MD. Nine surgeons have secondary appointments in the Division of General Surgery, five with their principal appointment in the Division of Trauma, Critical Care and Burns: Jeffrey Claridge, MD; John Como, MD; Amy McDonald, MD; Jeffrey Ustin, MD; and Charles Yowler, MD. Four have their principal appointments in the Division of Surgical Oncology: Bruce Averbook, MD; Natalie Joseph, MD; Edward Mansour, MD; and Jean Stevenson, MD. All are certified by the American Board of Surgery. Therese Dowling, RN, MSN, CNP is the clinical nurse practitioner for General Surgery, Maryann Ambrose, MSN, CNS, OCN, ANP-BC is the clinical nurse practitioner for Surgical Oncology, and Deb Valadez, RN is the bariatric nurse coordinator for the Division.

### **Christopher P. Brandt, MD**

Dr. Brandt completed medical school and a residency in General Surgery at Case Western Reserve University. He joined the faculty at MetroHealth Medical Center and Case Western Reserve University School of Medicine in July 1989. He is a Professor of Surgery at Case Western Reserve University School of Medicine. He was named Chair of the Department of Surgery in 2011 and also serves as the Co-Director of the Comprehensive Burn Care Center and the Director of the Outpatient Burn Clinic. He is the Director of the Surgical Clerkship for

the 3rd and 4th year medical students. He received the Department of Surgery Faculty Teaching Award in 1998 and 2004, Scholarship in Teaching Awards at Case Western Reserve University School of Medicine in 2004, 2005 and 2006, the Kaiser Permanente Award for Excellence in Teaching in 2009, and the Philip J. Wolfson Outstanding Teacher Award for the Association for Surgical Education in 2010. He has authored 41 papers in peer reviewed journals and ten book chapters. He serves on the Editorial Committee for the Midwest Surgical Association and the Program Committee for the Association for Surgical Education, and is the current Past President of the Cleveland Surgical Society. Dr. Brandt's clinical interests are in general surgery with focused interests in gastrointestinal surgery, advanced laparoscopy and burns.

### **Walter S. Cha, MD**

Dr. Cha is a graduate of Hahnemann University School of Medicine. He completed his General Surgery residency training at MCP-Hahnemann University and Temple University. He was in private practice at Crozer-Chester Medical Center from 2002 to 2006. He joined the faculty at MetroHealth Medical Center as an Assistant Professor of Surgery in July 2006 and is the Director of Weight Loss Surgery. Dr. Cha is the Associate Program Director for the Surgery Residency Training Program and serves on the Residency Committee for the Department of Surgery. Dr. Cha has a broad range of interests in general surgery with focused interests in advanced laparoscopy and bariatric surgery.

### **Jeremy Lipman, MD**

Dr. Lipman earned his medical degree from Drexel University College of Medicine in Philadelphia, Pennsylvania. He completed his General Surgery Residency at Case Western Reserve University and did a Colorectal fellowship at the Cleveland Clinic Foundation, where he received the outstanding clinical fellow award. He is board certified by the American Board of Surgery. Dr. Lipman joined the staff of MetroHealth Medical Center in July 2010 and is an Assistant Professor of Surgery at Case Western Reserve University School of Medicine.



He oversees the educational program of general surgery residents at MetroHealth Medical Center. He has published many peer-reviewed articles and presented his work at several national meetings. He serves as a reviewer for Annals of Surgery. His clinical interests include laparoscopic and single incision colorectal surgery, colorectal cancer, inflammatory bowel disease, diverticular disease, colonoscopy, re-operative abdominal surgery and benign anorectal disease.

### **Christopher McHenry, MD**

Dr. McHenry is the Director of the Division of General Surgery. He is also the Vice-Chairman of the Department of Surgery and the Interim Director of the Division of Surgical Oncology. Dr. McHenry graduated from a six-year combined BS/MD program at Northeastern Ohio Universities College of Medicine. He completed his General Surgery residency training at Loyola University Medical Center followed by a fellowship in Endocrine and Head and Neck Surgery at the University of Toronto. He joined the faculty at Case Western Reserve University and MetroHealth Medical Center in 1990. He is a tenured Professor of Surgery at Case Western Reserve University School of Medicine. In addition to broad-based General Surgery, Dr. McHenry has a focused interest in endocrine and neck surgery. He is a past President of the American Association of Endocrine Surgeons, the Midwest Surgical Association, the Cleveland Surgical Society, and the Ohio Chapter for the American College of Surgeons. He is the treasurer for the Central Surgical Association and serves on the Surgical Oncology Advisory Committee of the American Board of Surgery. He is on the Editorial Board for the American College of Surgeons Web Portal, the American Journal of Surgery, and the American Surgeon. Dr. McHenry has authored 119 papers in peer reviewed journals and 40 book chapters. In 2010, he gave six invited lectures including "Thyroid and Parathyroid Controversies and Difficult Case Management Issues" for the Endocrine Surgery University at the Mayo Clinic.

### **Paul P. Priebe, MD**

Dr. Priebe completed medical school at the Medical College of Wisconsin followed by a General Surgery residency at Case Western Reserve University School of Medicine. He joined the faculty at MetroHealth Medical Center in 1988. He is an Associate Professor of Surgery at Case Western Reserve University School of Medicine. He is the past President of the Cleveland Surgical Society and the Northeastern Ohio Society for Gastrointestinal Endoscopy. He received the Department of Surgery Teaching Award in 1995. In addition to his interest in broad based general surgery, Dr. Priebe has a focused interest in complex gastrointestinal surgery and endoscopy including endoscopic retrograde cholangiopancreatography.

### **Therese M. Dowling, RN, MSN, CNP**

Ms. Dowling is a clinical nurse practitioner for the Division of General Surgery. She completed her nursing degree at Cuyahoga Community College and then earned a Master of Science Degree in Nursing and certificate in Family Nurse Practitioner at Case Western Reserve University. She has national certification through the American Academy of Nurse Practitioners. Prior to joining the Division of General Surgery, she worked as an emergency room and cardiac care unit staff nurse. She has been in her current position since 2001. Her responsibilities are primarily with the evaluation and management of patients in the outpatient setting. Ms. Dowling assists with and performs minor surgical procedures and has developed her own expertise in the performance of advanced testing of patients with endocrine tumors.

### **Deb Valadez, RN, BSN**

Ms. Valadez received her Bachelor's Degree from Bowling Green State University in consortium with The University of Toledo College of Nursing. She came to MetroHealth in 2000 and worked in the Surgical Intensive Care Unit. Currently, Ms. Valadez is the research coordinator and bariatric coordinator for the Department of Surgery.

**Director**

Jon P. Bradrick, DDS

**Faculty**

Alan Y. Martinez, DDS

The Division concentrates on facial trauma, pathology, dentoalveolar surgery and reconstruction cases. The Division sees approximately 4,000 patients per year in the ambulatory clinic. Multiple procedures are done by the faculty and residents in the clinic under local anesthesia, general anesthesia and intravenous sedation. The loss of the independent MetroHealth residency program accreditation, has resulted in a merger with the Oral Surgery residency based at the CWRU School of Dentistry.

**Jon P. Bradrick, DDS**

Dr. Bradrick is the Director of the Division of Oral and Maxillofacial Surgery, and is an Associate Professor of Surgery. He graduated from the University of Iowa College of Dentistry. His internship and anesthesia training was at the University of Chicago Hospitals and Clinics. Dr. Bradrick’s Oral and Maxillofacial Surgery residency was completed at

MetroHealth Medical Center. Following completion of residency, he remained as faculty at MetroHealth until 1997. Dr. Bradrick was the Division Director of Oral and Maxillofacial Surgery at Herman Memorial Hospital, University of Texas Medical Center in Houston until 2000, when he returned to Cleveland to lead this Division. Dr. Bradrick also holds a dual appointment with the Department of Otolaryngology and Head and Neck Surgery.

**Alan Y. Martinez, DDS**

Dr. Martinez is an Assistant Professor of Surgery, and started as full time faculty at MetroHealth in June 2009. Dr. Martinez is a 2005 graduate of the Roberto Beltran Neyra Universidad Peruana Cayetano Heredia, Lima, Peru. Dr. Martinez was also Auxiliary Professor of Oral and Maxillofacial Surgery, Department of Oral Medicine, Oral Pathology and Oral and Maxillofacial Surgery School of Stomatology at the same institution before moving to Cleveland.





**Director**

Roderick B. Jordan, MD

**Staff/Faculty**

Bram R. Kaufman, MD

Daniel A. Medalie, MD

Ali Totonchi, MD

Andrea E. Gallup, CNP



The Division of Plastic and Reconstructive Surgery has four full-time board certified faculty members and a certified nurse practitioner who provide a full spectrum of plastic surgical services. Patient care is delivered on campus at MetroHealth Medical Center, off-campus at the MetroHealth Ambulatory Surgery Center, and in three suburban outpatient offices. The Division performs in excess of 900 major surgical procedures and has over 6,800 outpatient visits yearly. The Division is teamed with the Orthopedic Service to provide hand services for the community and northeastern Ohio. Other services include craniofacial trauma, bariatric reconstruction, pediatric plastic surgery, gender re-assignment surgery, aesthetic and reconstructive breast surgery, lower extremity reconstruction, and facial aesthetic surgery.

#### **Roderick B. Jordan, MD**

Dr. Jordan received his medical degree in 1982 from Case Western Reserve University School of Medicine in Cleveland, Ohio. He completed his training in General Surgery and Plastic Surgery at University Hospitals of Cleveland. A member of the faculty at MetroHealth Medical Center since 1988, Dr. Jordan is an Assistant Professor of Surgery at Case Western Reserve University and Director of the Division. He is a past-president of the Ohio Valley Society of Plastic Surgeons. Dr. Jordan's special practice interests include body contouring after massive weight loss, aesthetic breast surgery, and the treatment of maxillofacial trauma.

#### **Bram R. Kaufman, MD**

Dr. Kaufman received his medical degree in 1987 from Case Western Reserve University School of Medicine in Cleveland, Ohio. He completed his residency in General Surgery at University Hospitals of Cleveland. Dr. Kaufman completed fellowships in Plastic Surgery and Hand and Microsurgery at the University of Pittsburgh. He is an Assistant Professor of Surgery at Case Western Reserve University School of Medicine. Dr. Kaufman holds a Certificate of Added Qualification in Hand Surgery. Dr. Kaufman's practice interests include breast and body contouring, facial aesthetic surgery, trunk reconstruction, hand surgery, and microsurgery.

#### **Daniel A. Medalie, MD**

Dr. Medalie attended Harvard University and spent a year studying at the Parsons School of Design and Art Students League in New York City. He subsequently earned his medical degree from Cornell University School of Medicine. His General Surgery and Plastic Surgery residencies were completed at the University of Pittsburgh. He also completed a burn fellowship at Massachusetts General Hospital and Shriners Burns Institute in Boston. A full-time faculty member and an Assistant Professor of Surgery at Case Western Reserve University School of Medicine, Dr. Medalie's special interests include aesthetic breast and body contouring, reconstructive breast surgery, reconstructive microsurgery of the head, neck and extremities, gender re-assignment surgery, and facial aesthetic surgery.

#### **Ali Totonchi, MD**

Dr. Totonchi received his medical degree in 1996 from Tabriz University of Medical Sciences. He completed his residency in Plastic Surgery at University Hospitals Case Medical Center in Cleveland, Ohio. Dr. Totonchi completed fellowships in Craniofacial/Pediatric Plastic Surgery at Rainbow Babies and Children's Hospital in Cleveland and Facial Cosmetic Surgery at University Hospitals Case Medical Center. He joined MetroHealth Medical Center in 2010. Dr. Totonchi is an Assistant Professor of Surgery at Case Western Reserve University School of Medicine. His practice interests include pediatric plastic surgery, surgical treatment of migraine headaches, craniofacial surgery, cosmetic surgery and post-oncologic reconstruction. Dr. Totonchi received the 2011 American Society of Maxillofacial Surgeons National Fellowship Award.

#### **Andrea E. Gallup, CNP**

Ms. Gallup joined the Division of Plastic Surgery at MetroHealth in 2004. Andrea received her BSN degree from the University of Pittsburgh in 1996. She earned her master's degree from and completed the Family Health Nurse Practitioner program at Gannon University in 2001. Ms. Gallup participates in all patient care activities including in-patient/out-patient care, patient education and perioperative services.

Currently, residents from the integrated Plastic Surgery residency based at University Hospitals rotate through the Division of Plastic Surgery at MetroHealth. The PGY-1 and PGY-2 residents each spend two months at MetroHealth. The PGY-6 residents from the program spend 6 months at MetroHealth. Cleveland Clinic Plastic Surgery residents also complete rotations with the Division of Plastic Surgery at MetroHealth Medical Center. The residents gain experience in all clinical areas with emphasis on the treatment of major traumatic defects and burn injuries.

Current Division research includes post-bariatric reconstruction, reconstruction of the burn defects of the hand and upper extremity, fat metabolism, craniofacial surgery and treatment of facial trauma, migraine surgery, and facial aesthetics.

**Acting Director**

Christopher R. McHenry, MD

**Staff/Faculty**

Bruce J. Averbook, MD

Natalie E. Joseph, MD

Edward G. Mansour, MD

Jean T. Stevenson, MD



The Division of Surgical Oncology is a key component of the Comprehensive Cancer Care Center at MetroHealth Medical Center. Dr. Christopher McHenry is the Acting Director of the Division of Surgical Oncology and serves on the Surgical Oncology Board of the American Board of Surgery. There are three full-time faculty members in the Division, Bruce Averbook, MD, Natalie Joseph, MD, and Jean Stevenson, MD, who specialize in the surgical management of cancer with additional expertise in the areas of breast cancer, colorectal cancer, and melanoma. Edward Mansour, MD has retired from his full-time Surgical Oncology practice; however he continues to see outpatients and provide teaching in the Breast Surgery Clinic. He also runs a "lump and bump" clinic performing minor procedures in the outpatient surgery clinic and sees patients in follow up for cancer.

The surgical oncologists are responsible for staffing a weekly outpatient clinic for evaluation of patients with complex breast disease and for coordinating a multidisciplinary conference to reach management decisions for these patients. In addition, the faculty provides surgical care for cancer patients, educates medical students and residents on surgical oncology, and participates in multidisciplinary Tumor Boards.

The Division of Surgical Oncology is actively involved in clinical trials through the Eastern Cooperative Oncology Group (ECOG) and the American College of Surgeons Oncology Group. Dr. Bruce Averbook is the Principal Investigator for the Case Western Reserve University ECOG program. In this capacity, he administers clinical trials at MetroHealth Medical Center, University Hospitals Case Medical Center and five affiliate institutions. The Division also maintains databases on all breast cancer and melanoma patients cared for at MetroHealth since 1975 and is involved in clinical research in these areas.

**Bruce J. Averbook, MD**

Dr. Averbook completed medical school at the George Washington University, followed by a General Surgery residency at the University of California, Irvine. He completed a resident postdoctoral fellowship in Cancer Immunology at the University of California, Irvine in the Department of Molecular Biology and Biochemistry. Following his General Surgery residency, Dr. Averbook completed a Surgical Oncology fellowship at the Surgery Branch of the National Cancer Institute. He is an Associate Professor of Surgery and has a joint appointment in the Division of General Medical Sciences (Oncology) at Case Western Reserve





University School of Medicine. He recently received a joint appointment as an Associate Professor in Dermatology at MetroHealth Medical Center. He has been an attending at MetroHealth Medical Center since 1993. He has a special interest in the management of melanoma, sarcoma and breast cancer and is the Toxicity Monitor for the Eastern Cooperative Oncology Group (ECOG) Melanoma Core Committee. He is the Principal Investigator (PI) for the Case Western Reserve University Eastern Cooperative Oncology Group and the institutional PI for the American College of Surgeons Oncology Group (ACOSOG). He just received an additional 3 years of funding from the NIH for \$1.3 million after competitive renewal for the ECOG grant that is now in its 36th consecutive year. He recently conducted the NIH, NCI, and ECOG Site Visit for UT Southwestern/Simmons Cancer Center. He is the institutional PI for the Neoprobe Lymphoseek Trial. He is currently a council member (NE Ohio District Councilor, Member of the Education/Program Committee, and Chairman of the Audit Committee) of the Ohio Chapter of the American College of Surgeons (ACS) and was Program Chairman for the Annual Meeting in 2009. He completed service in October 2010 as the Alternate Governor Representative for the ACS Board of Governors for the Ohio Chapter. He was recently elected to National Membership for the ACS Commission on Cancer. He is a member of the MetroHealth Appointments, Promotions, and Tenure Committee and Member of the Case Western Reserve Faculty Senate and Nominating Committees. He has presented recent work on an International Database on Pediatric Melanoma at the American Society for Clinical Oncology. Dr. Averbook has published 20 papers in peer reviewed journals and 5 book chapters. An invited editorial on melanoma will appear in the Journal of Clinical Oncology in 2011.

#### **Natalie E. Joseph, MD**

Dr. Joseph earned a Bachelor of Arts degree at the University of Pennsylvania where she majored in Biological Basis of Behavior. She obtained her medical degree from Temple University School of Medicine where she was also inducted into the

Alpha Omega Alpha Honor Society. She completed her General Surgery residency training at Case Western Reserve University followed by a Fellowship in Surgical Oncology at the Fox Case Cancer Center. Prior to her being recruited to MetroHealth Medical Center, Dr. Joseph was an Attending Surgeon in the Department of Surgical Oncology at the Fox Chase Cancer Center and an Assistant Professor of Surgery at Temple University School of Medicine for five years. While at the Fox Chase Cancer Center, she was the Liaison Physician for the American College of Surgeons Commission on Cancer. She has previously earned an American Society of Clinical Oncologist Merit Award. She has distinguished herself as an educator and received an Excellence in Teaching Award. Dr. Joseph has a special interest in the management of breast cancer and colorectal cancer. She is the Director of the Breast Clinic at MetroHealth Medical Center.

#### **Edward G. Mansour, MD**

Dr. Mansour completed medical school at the American University of Beirut followed by a General Surgery residency training at MetroHealth Medical Center. He is a Professor of Surgery and Oncology. He has been an attending surgeon at MetroHealth Medical Center for 36 years. He is the past Director of the Division of Surgical Oncology and the past Director of the Cancer Care Center at MetroHealth Medical Center. He was a Principal Investigator for the Eastern Cooperative Oncology Group, earning continuous funding from the National Cancer Institute for 30 years. He is internationally recognized for his expertise in Surgical Oncology, particularly in the areas of breast cancer and melanoma. Dr. Mansour is past President of the Ohio Division of the American Cancer Society and the Cleveland Surgical Society. He has authored 47 papers and 12 book chapters. He was the recipient of the Department of Surgery Faculty Teaching Award in 2001. He was inducted into the Cleveland Medical Hall of Fame in 2002, the American Cancer Society Cancer Hall of Fame in 2003 and the MetroHealth Hall of Honor in 2011.

**Jean T. Stevenson, MD**

Dr. Stevenson received a Bachelor of Arts degree from Cornell University in Biology. She then completed medical school at the Medical College of Virginia followed by a General Surgery residency at Case Western Reserve University. She is an Associate Professor of Surgery and has been an attending at MetroHealth Medical Center since 1989. She has a special interest in breast surgery and is the Director of Breast Services at MetroHealth. Dr. Stevenson was recently appointed as the Co-Chair for the Ohio State Commission on Cancer's Cancer Liaison Physician group, in addition to serving as the hospital's CLP for many years. She is on the American Cancer Society's Board of Directors (Cuyahoga County Unit) and Ohio State Quality of Life Program Team, the Ohio Department of Health Comprehensive Cancer Medical Advisory Committee, the Ohio Partners for Cancer Control, and is a past-President of the Cleveland Surgical Society. She has received numerous awards, including the Russell Weisman Scholar Award, Cancer Liaison Physician Outstanding Performance Award, Top Docs Northern Ohio Live Magazine in 2005 and 2008, Best Doctors in America 2007-2011 Cleveland Magazine, Breast and Cervical Cancer Coalition Ninth Annual Janet Voinovich Service Award, and the Ohio Partners for Cancer Control State Award.

The Division is active in community outreach through a program entitled BRinging Education, Advocacy, and Support Together (BREAST). Dr. Stevenson directs this project which provides free breast cancer screening services in community locations for uninsured minority women over 35 years of age. Susan G. Komen for the Cure Northeast Ohio Affiliate, the American Cancer Society, PNC Bank, the National Breast Cancer Foundation, and the William Bingham Foundation fund this effort. The program was inducted into the American Cancer Society's Hall of Fame (Cuyahoga Unit) in 2006 and received awards from Inside Business Magazine, "Giving Back: Health Outreach Among the Best Places to Work" and the American Cancer Society for Ohio Latino Breast Cancer Best Practices in 2009.

**Director**

Jeffrey Claridge, MD

**Staff/Faculty**

John Como, MD

Amy McDonald, MD

David Porembka, DO

Charles Yowler, MD

Tammy Coffee, MSN, RN, ACNP-BC





MetroHealth Medical Center is the only American College of Surgeons verified Level I Trauma Center for more than two million people in the metropolitan Cleveland area. MetroHealth is also verified by the American College of Surgeons as a Level II Pediatric Trauma Center and by the American Burn Association as a Level I Burn Center. The faculty consists of six surgeons with Board Certification in Surgical Critical Care and an Anesthesiologist with Board Certification in Anesthesia Critical Care. Upon arrival to MetroHealth, the trauma patient is evaluated and treated by a multidisciplinary team consisting of trauma surgeons, emergency physicians, and surgical subspecialists. Approximately 2,700 trauma patients are admitted annually, making this one of the busiest Trauma Centers in Ohio and in the U.S. We are also dedicated to the treatment of injured children with assistance from subspecialty teams of pediatric medical and surgical specialists.

The Division supervises a 27-bed Surgical Intensive Care Unit. Almost 2,000 patients are admitted annually to the Intensive Care Unit, making this one of the busiest Intensive Care Units in the City. The 14-bed Burn Intensive Care Unit at MetroHealth

Medical Center is the only adult and pediatric Burn Center for the metropolitan Cleveland area. We treat 1,700 burn patients annually with more than 100 patients having burns severe enough to be admitted.

**Jeffrey Claridge, MD**

Dr. Claridge is an Associate Professor of Surgery and is the Director of the Section of Trauma. His NIH-funded research is in the area of trauma outcomes, surgical infections, and medical informatics. He is also primarily responsible for the two-year resident research fellowship offered by the Division. His clinical interests are in the areas of Acute Care Surgery and Advanced Laparoscopic Surgery, including bariatric surgery. Dr. Claridge is a Counselor for the Surgical Infection Society. He is also the Medical Director for the Northern Ohio Trauma System (NOTS) which is a partnership of hospitals across northern Ohio. The mission of NOTS is to provide the highest quality of care to trauma patients across the region, by rigorously evaluating and improving outcomes, optimizing resources, and providing education across the region, utilizing a collaborative approach with hospitals, emergency medical services, and the public health services.







### **John Como, MD**

Dr. Como is an Associate Professor of Surgery and serves as Associate Director for Trauma. Dr. Como is responsible for prevention activities and treatment guidelines used for our injured and critically ill patients. He has a broad background in guideline development and is a member of the Eastern Association for the Surgery of Trauma Guidelines Committee. His clinical interest is in the area of Acute Care Surgery with emphasis on trauma and complex hernia repair. He is currently pursuing a Master's of Public Health degree at Case Western Reserve University.

The Division offers two ACGME-approved Fellowships in Surgical Critical Care and offers a Trauma Research Fellowship. The Division provides education in the areas of Trauma, Surgical Critical Care, and Burn Care to the residents of the Case Western Reserve University Surgical Program and the Cleveland Clinic.

Divisional research is centered in the area of trauma outcomes, burn care, medical informatics, and surgical infection. Approximately eight to ten peer-reviewed articles are published annually by the attending staff.

### **Amy McDonald, MD**

Dr. McDonald is an Assistant Professor of Surgery and is the Interim Director of the Surgical Intensive Care Unit. She is responsible for the education of surgical residents and medical students rotating through the Division. Her clinical interests are in the areas of General and Acute Care Surgery and Surgical Infections.

### **Charles Yowler, MD**

Dr. Yowler is a Professor of Surgery and is Director of the Comprehensive Burn Care Center and Program Director for the Surgical Critical Care Fellowship. His primary clinical interest is in Acute Care Surgery with an emphasis on trauma and burn injury. As Director of the Comprehensive Burn Care Center, he also treats a wide range of complex wound problems including necrotizing tissue infections. Dr. Yowler is Chairman of the Ohio Committee on Trauma.

### **Tammy Coffee, MSN, RN, ACNP-BC**

Ms. Coffee received her diploma from Akron General Medical Center School of Nursing in 1984 and her Bachelor's Degree in Nursing from the University of the State of New York in 1995. She went on to receive her Master's Degree in Nursing from Case Western Reserve University. She is board certified as an Acute Care Nurse Practitioner. For 25 years, Ms. Coffee has dedicated her career to caring for the burn victim and their families. She currently sits on the American Burn Association Board of Trustees and has presented at national meetings and published in journals and nursing books.

**Director**

J. Jeffrey Alexander, MD

**Staff/Faculty**

Mireille Astrid Moise, MD

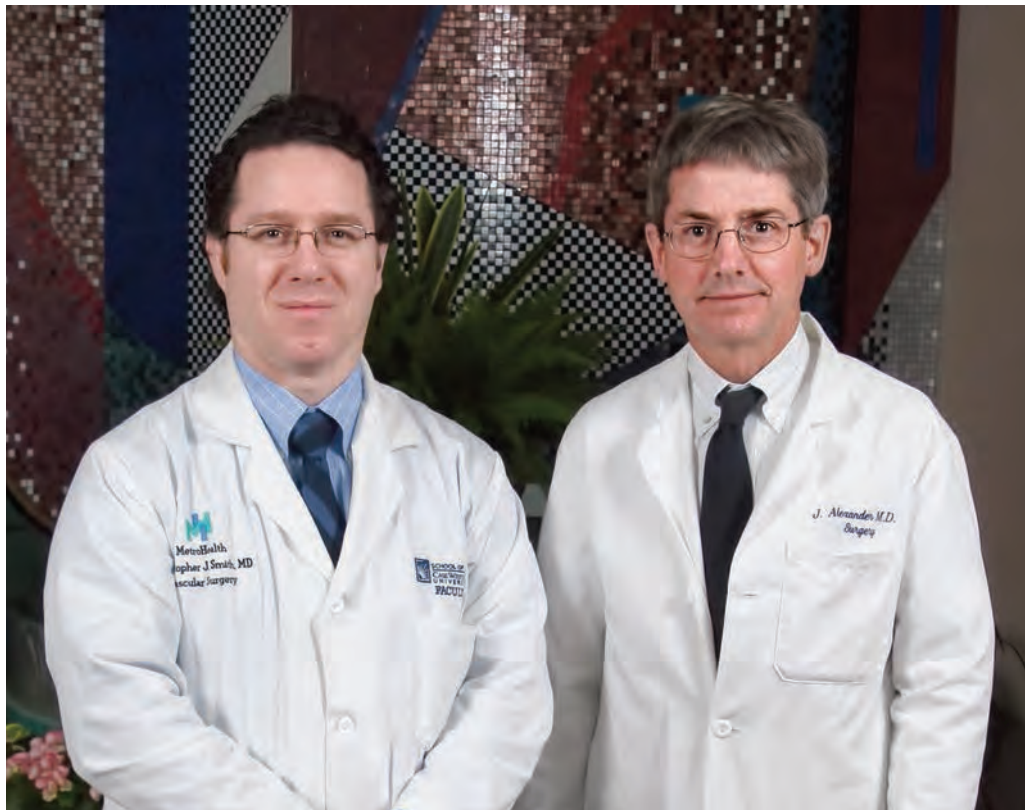
Christopher J. Smith, MD



The Division of Vascular Surgery at MetroHealth Medical Center is committed to providing exceptional care for patients with arterial and venous disorders. To achieve this goal, it is linked with the Divisions of Cardiology, Cardiothoracic Surgery, and Vascular and Interventional Radiology to form the Heart and Vascular Center, whose overall goal is to provide broad-based screening and preventative programs as well as to offer a comprehensive diagnostic and therapeutic plan utilizing a patient centric and disease oriented approach. The surgical service focuses on the treatment of extracranial, aortic, visceral, and extremity arterial occlusive disease, arterial aneurysms, vascular trauma, and venous disease. In addition, it is active in providing and maintaining hemodialysis access. Diagnosis of these varied conditions is assisted through its ICAVL-accredited vascular laboratory, and by means of other contemporary diagnostic modalities such as enhanced MRA, CTA, and standard or biplanar angiography. Treatments provided by the service include both conventional surgical approaches and newer endovascular options including angioplasty, stent placement, stent graft repair of abdominal and thoracic aneurysms, ultrasound guided treatment

of pseudoaneurysms and thrombolytic therapy. The Division is also involved with more innovative approaches to enhance the treatment of arterial and venous disease catheter-based atherectomy, cryoplasty and endoluminal vein ablation.

Educational activities of the Division are diverse. Weekly didactic conferences are held with students, residents and interventional fellows to discuss the evaluation and treatment of vascular patients. Monthly conferences are also held in conjunction with the Division of Nephrology to review issues specific to hemodialysis access. In addition, regular lectures are given to medical students rotating on the surgical service. Rotating podiatry students take advantage of teaching within the busy outpatient clinics. These educational activities are complemented by clinical research studies which have focused on such topics as arterial bypass in patients with renal failure, the use of vena caval filters, venous thrombosis in trauma patients, the outcome of ruptured aortic aneurysms and the natural history of carotid occlusive disease. Current projects are concerned with arterial reconstruction in the younger patient, the prevalence of aspirin



resistance in patients with peripheral vascular disease, and the use of vagal stimulation for the treatment of congestive heart failure.

J. Jeffrey Alexander, MD is Director of the Division of Vascular Surgery and Director of the Noninvasive Vascular Laboratory at MetroHealth Medical Center. He graduated from the University of Pittsburgh School of Medicine and completed both his surgical residency and vascular surgical fellowship at the University of Chicago. He is a tenured Associate Professor of Surgery at Case Western Reserve University and is board-certified in general and vascular surgery. He is also a certified vascular technologist. His concentration has been on the operative treatment of carotid and peripheral vascular disease, aortic aneurysms and visceral arterial occlusive disease. He is also active in the treatment of vascular trauma and in arteriovenous access surgery. He has authored more than fifty articles in peer reviewed journals and several book chapters. He is a member of many regional and national vascular societies. He has received the honor of Best Doctors in America.

Christopher J. Smith, MD graduated from Tufts University School of Medicine where he was distinguished with induction into the AOA Honor

Society. He received his general surgical training at Case Western Reserve University and completed his vascular surgery fellowship at the University of Cincinnati. He has since held attending positions at Case Western Reserve University, Tufts University and Temple University. He currently holds the rank of Assistant Professor of Surgery at Case Western Reserve University. He is board certified in vascular and general surgery. Dr. Smith has a focused interest in advanced endovascular therapy and is the Director of Endovascular Surgery. He also has a wide interest in the surgical treatment of arterial and venous disease and is active in program development and vascular screening.

Mireille Astrid Moise, MD graduated from the University of Pennsylvania School of Medicine, where she received awards for humanitarianism and academic achievement, and where she later served as a postdoctoral research fellow. She completed her vascular fellowship at the Cleveland Clinic Foundation and joined the Vascular Surgery Division at MetroHealth Medical Center as an Assistant Professor of Surgery at Case Western Reserve University. Dr. Moise has special expertise in the endovascular treatment of arterial disease and has an interest in open surgical treatment modalities as well.



Our surgeons  
are committed to  
the care of men  
and women who  
have sacrificed in  
war and peace for  
our freedom.



The Louis B. Stokes Cleveland VA Medical Center is the flagship hospital for VISN 10 (Veterans' Integrated Service Network in Ohio). The Cleveland VA serves northeast Ohio and serves as the tertiary care referral center for all of Ohio and portions of western Pennsylvania and West Virginia. It is one of the Veterans' Health Administration's top spinal cord injury centers serving America's veterans. It houses a major inpatient psychiatry service and a unique domiciliary. For many years, there have been two campuses — the Wade Park facility and a facility in the south suburb of Brecksville. A major consolidation initiative was completed in 2011 which brought many Brecksville services to the Wade Park campus, to the recently completed and newly constructed C.A.R.E.S. Tower and other new facilities across 105th Street. A new state-of-the-art, community-based outpatient clinic was also completed in the suburb of Parma, Ohio, replacing the imploded Brecksville campus. More than 2,600 new parking spaces have been added to the campus in the past one-and-a-half years. The makeover of the Cleveland VA Medical Center was made possible by a more than \$500 million investment by the federal government and partners in the City of Cleveland. The hospital is fed from a coordinated network of 13 community-based outpatient clinics (CBOC's) across northeast Ohio.



Frederick D. Cason, MD

The Department of Surgery consists of 11 Sections (General Surgery, Vascular, Cardiothoracic, Plastics, Otorhinolaryngology and Head and Neck Surgery, Orthopedics, Ophthalmology, Urology, Optometry, Podiatry, and Surgical Intensive Care). General Surgery has two Divisions: Surgical Oncology and Colorectal Surgery. Over 500 operations a month are performed by our faculty in our eight surgical suites. We have ten surgical critical care beds and several step-down beds. There is construction underway to completely renovate the operating theater and the surgical intensive care unit in the next fiscal year, which will make them state-of-the-art facilities. There will be a net gain of two operating suites and two critical care beds. The Department participates in a robust quality surveillance and management program, as well as VASQIP (Veterans Administration Surgical Quality Improvement Program) and SCIP (Surgical Care Improvement Program).

The Louis B. Stokes Cleveland VA Medical Center is fully integrated with the surgical residency programs of University Hospitals and most of our faculty have full-time appointments at Case Western Reserve University School of Medicine. Our faculty is intimately involved in resident and medical student education and regular teaching conferences are conducted on "Education Thursday" at the Wade Park facility.

Research opportunities for residents interested in longitudinal database projects and some funded opportunities are available in conjunction with our faculty with Merit and Young Investigator awards. An on-site Assistant Residency Program Director works closely with the Program Director to assure good communication with our faculty and compliance with the objectives of the Case Surgery educational program. The Department Chairman has been a member of the Association of Program Directors in Surgery and previously a Residency Program Director in a university program. A laparoscopic skills training facility is located across the street from the hospital on the VA campus, which is utilized on a regular basis by the residents during their rotation at the VA Medical Center, and protected time is provided for them to utilize the opportunity. Residents have access to broad and complex cases and surgical pathology and are given the opportunity to focus their experience at the VA on areas of their unique interest. Inpatient care is shared with a small army of extenders hired over the past two years to reduce resident workload and to promote compliance with ACGME work hour requirements, while maintaining a high quality of patient care. The Chief of Staff and the Department have a strong commitment to surgical resident education.

Our surgeons are extremely proud of their unique responsibilities, which is for the care of the men and women who have 'borne the battle' and sacrificed in war and peace for our freedoms.

Frederick D. Cason, MD  
 Chairman, Department of Surgery  
 Surgeon-in-Chief, Louis B. Stokes Cleveland VA Medical Center

Our faculty is intimately involved in resident and medical student education.







**Frederick D. Cason, MD, FACS**

Surgeon-in-Chief  
Chairman, Department of Surgery

**Medical School:** St. Louis University School of Medicine, St. Louis, Missouri  
**Residency:** Naval Regional Medical Center, Oakland, California; University of California at San Francisco Affiliated Hospitals, San Francisco, California

Cardiothoracic Surgery



**Brian Cmolik, MD**

Section Chief  
Cardiothoracic Surgery and Video Assisted Thoracic Surgery

**Medical School:** Northeastern Ohio Universities College of Medicine  
**Residency:** Allegheny Hospital  
**Fellowship:** Allegheny Hospital



**Yakov Elgudin, MD**

Cardiothoracic Surgery

**Medical School:** School of Medicine, Kemerovo, Russia  
**Residency:** Exempla-Saint Joseph Hospital  
**Fellowship:** UCLA



**Jason Robke, MD**

Thoracic and Esophageal Surgery  
Thoracic Oncology, Esophageal Surgery, Minimally Invasive (VATS) Surgery, Airway and Esophageal Stenting, GERD, Paraesophageal Hernia Surgery, and YAG Laser Therapy

**Medical School:** Medical College of Ohio at Toledo  
**Residency:** Allegheny Hospital  
**Fellowship:** Allegheny General Hospital



**Diana Whittlesey, MD**

Cardiothoracic Surgery and Thoracic Oncology

**Medical School:** Johns Hopkins University  
**Residency:** Johns Hopkins Hospital, Case Western Reserve University / University Hospitals of Cleveland  
**Fellowship:** Case Western Reserve University / University Hospitals of Cleveland





## General Surgery



### Frederick D. Cason, MD, FACS

Surgeon-in-Chief

Chairman, Department of Surgery

Gastrointestinal Surgical Oncology, Liver, Foregut, and Endocrine Surgery

**Medical School:** St. Louis University School of Medicine

**Residency:** US Naval Hospital and Regional Medical Center (Oakland, Ca.) and the University of California at San Francisco Affiliated Hospitals



### Melanie Lynch, MD, PhD

Section Chief

Surgical Oncology, Endocrine Surgery, and General Surgery

**Medical School:** The Ohio State University School of Medicine and Public Health, Columbus, Ohio

**Residency:** General Surgery, University Hospitals of Cleveland, Ohio

**Fellowship:** Surgical Oncology, University Hospitals of Cleveland, Ohio



### Eric Marderstein, MD, MS

Director of Colorectal Surgery

Colorectal and Anal Cancer, Inflammatory Bowel Disease, and Benign Colorectal diseases

**Medical School:** University of Virginia School of Medicine

**Residency:** University of Pittsburg School of Medicine

**Fellowship:** Cleveland Clinic Foundation – Colorectal Surgery



### Mujjahid Abbas, MD

General Surgery

**Medical School:** King Edward Medical College

**Residency:** Montefiore Medical Center/Albert Einstein College of Medicine, New York, NY

## Plastic Surgery



### Devra Becker, MD

Section Chief

Plastic and Reconstructive Surgery

**Medical School:** Washington University School of Medicine, St. Louis, MO

**Residency:** Washington University School of Medicine, St. Louis, MO

**Fellowship:** Paris, France (with Dr. Marchac/University of Case School of Medicine)



### David Rowe, MD, MS

Plastic and Reconstructive Surgery

**Medical School:** Albany Medical College

**Residency:** Medical College of Wisconsin

## Vascular Surgery



### Jessie Jean-Claude, MD

Section Chief

Peripheral Vascular Surgery and Endovascular Surgery

**Medical School:** Columbia University College of Physicians and Surgeons, New York, NY

**Residency:** St. Luke's/Roosevelt Hospital Medical Center, New York, NY

**Fellowship:** University of California at San Francisco; University of Lund/Malmo, Sweden



### Gilles Pinault, MD

Peripheral Vascular Surgery, Endovascular Surgery and Surgical Critical Care

**Medical School:** McGill University Faculty of Medicine, Quebec, Canada

**Residency:** Case Western Reserve University School of Medicine / University Hospitals of Cleveland

**Fellowship:** Peripheral Vascular Surgery, University Hospitals of Cleveland



### Preet Singh Kang, MD

Chief, Interventional Vascular Radiology

**Medical School:** MMBS, Maulana Azad Medical College, New Delhi, India, University of Delhi

**Residency:** Radiology Residency, Hospital of Saint Raphael, Yale University, New Haven, Connecticut

**Fellowship:** Vascular and Interventional Radiology, Yale New-Haven Hospital, Yale University, New Haven Connecticut

## Surgical Critical Care



### Edward Noguera, MD

Director of Surgical Critical Care

**Medical School:** Universidad Nacional de Colombia

**Residency:** Anesthesiology, The Cleveland Clinic Foundation

**Fellowship:** Critical Care Medicine, The Cleveland Clinic Foundation



### Joel Peerless, MD

Surgical Critical Care

**Medical School:** University of Cincinnati College of Medicine, Cincinnati, Ohio

**Residency:** Internal Medicine, Metropolitan General Hospital, Cleveland, Ohio; Anesthesiology, Northwestern University Hospital, Chicago, Illinois

**Director:** Surgical Intensive Care Unit, MetroHealth Medical Center, Cleveland, Ohio 1986-2009

The VA Surgical Service provides a full range of surgical care to the nation's veterans.



The Surgical Service (Department of Surgery) at the Louis B. Stokes Cleveland VA Medical Center provides a full range of surgical care to the nation's veterans under the leadership of Frederick D. Cason, MD, FACS, Surgeon-in-Chief (Associate Professor at Case Western Reserve University School of Medicine). The General Surgery, Vascular Surgery, and Cardiothoracic Surgery Sections, with which the surgical residency is involved, is lead by Section Chiefs Melanie Lynch, MD, FACS (Assistant Professor at CWRU-SOM), Jesse Jean-Claude, MD (Associate Professor at CWRU-SOM), and Brian Cmolik, MD, FACS (Assistant Professor at CWRU-SOM), respectively. The Service is comprised of 12 sections, including general surgery, vascular surgery, cardiothoracic surgery, gynecologic surgery, plastic surgery, podiatry and podiatric surgery, ophthalmology, optometry, orthopaedic surgery, otorhinolaryngology, surgical critical care, and urology. The Cleveland VA has regional programs within the VA system for cardiac surgery and minimally invasive vascular surgery. A new program in prostate cryosurgery was implemented in 2009 and continues to build momentum. Facilities include 8 operating rooms, an endoscopy suite, a 10-bed surgical intensive care unit with overflow capacity into the Medical Intensive Care Unit, and 8 potential step-down beds to handle the busy Service. The operating rooms will be undergoing a complete makeover with the net addition of two rooms, bringing the total to 10 operating rooms starting in late 2012. This major renovation project is well underway with 3 temporary operating rooms now completed and ready for use. The Surgical Intensive Care Unit will also undergo complete reconstruction in 2012 with updates to state-of-the-art equipment and infection control measures. An outpatient Surgical Ambulatory Care Center is planned which will provide 2 additional operating rooms and an endoscopy suite. An RFP (request for proposals) has been issued to Cleveland area construction contractors, builders, and land owners for bids on location and construction or reconfiguration of this new facility, which has been budgeted by the Veterans Health Administration in Washington, DC. Completion is planned for early 2013. This new facility will help to decompress the

busy operating suite and the Short-Stay Unit in the main hospital, where there is demand for additional major operations, and it will increase the capacity to manage the outpatient demands in ophthalmology, podiatry, otorhinolaryngology, orthopedics, plastics, and general surgery.

Two of the new hospital operating rooms will be outfitted as hybrid suites for evolving minimally invasive peripheral vascular and cardiac operations. The new surgical intensive care unit facility will be updated to the latest standards for infection control, noise control, technology, and patient safety. The surgical patient care wards were completely renovated a few years ago, including updated patient care technology, resulting in improved patient privacy and satisfaction over previous years. A Tele-health Clinic was started remotely to the Wade Park facility from the Akron Community-Based Outpatient Clinic in early 2011.

The Louis B. Stokes Cleveland VA Medical Center is the flagship tertiary care medical facility of Veteran's Integrated Service Network-10 (VISN 10) with a total of over 600 beds (approximately 275 acute care beds). It serves 13 Community-Based Outpatient Clinics located across northeast Ohio.





## CARDIOTHORACIC SURGERY

The Cardiothoracic Surgery section is comprised of three full-time and one part-time surgeons, as well as two physician assistants, one nurse practitioner, and a nurse scheduler. Two of our surgeons specialize in non-cardiac thoracic surgery and thoracic oncology. About 275 cardiac operations are performed yearly at the Cleveland VA, with patients referred from throughout the state of Ohio, as well as from Indiana, Kentucky, and West Virginia. More than half of the cardiac surgery cases are referred from more than 50 miles away. The cardiac group led the VA in the use of off-pump cardiac bypass, and is actively involved in an ongoing study comparing outcomes of off-pump with on-pump bypass surgery. Surgical outcomes, as assessed by the VA Continuous Improvement in Cardiac Surgery Program, are excellent. Thoracic surgical procedures are performed using both open and minimally invasive techniques, and include a large number of lung and esophageal cancer cases.

## GENERAL SURGERY

The General Surgery Section is staffed by four full-time surgeons, four nurse practitioners, a Physician's Assistant, a scheduling nurse, and a wound care and ostomy nurse, providing expertise in surgical oncology, colorectal surgery, and general gastrointestinal and soft tissue surgery. Surgical oncology represents the largest component of the General Surgery Section, offering care of major tumors of the stomach, esophagus, pancreas, large bowel, bile duct, retroperitoneum, endocrine organs, breast, and malignant melanoma.

Three residents, one each at the PGY-4, PGY-3 and PGY-1 levels, are assigned to the Service. There are third year medical students rotating for their core surgery rotations. The Section performed nearly 1,400 operations last fiscal year, affording the residents significant experience in management of a wide range of surgical problems. There is one half-day of general surgery clinic per week. The Section operates four days per week, running two rooms each day. There has been a significant increase in clinical activity at the Cleveland VA since late 2009, which has been consistent and continues to grow.

## VASCULAR SURGERY

Vascular Surgery is staffed by two full-time surgeons (a third is being recruited), three nurse practitioners, and a research nurse. Trainees include a vascular surgery fellow, a PGY-4 as chief resident, and a PGY-1 rounding out the team. There are third year medical students who rotate in 2-week blocks. A non-invasive vascular laboratory is staffed by three vascular technologists. The Vascular Surgery group provides care for patients with aneurysmal and occlusive disease of the extremity, visceral, and extracranial vessels and the aorta. Our vascular surgeons have an active endovascular program and work collaboratively with our interventional radiologists both in the operating rooms and radiology suite. Each case is presented and discussed in a multidisciplinary format where treatment planning is initiated. The Vascular Surgery section sees patients in the outpatient clinics one day per week and operates four days per week. More than 450 vascular operations were performed at the Cleveland VA in fiscal year 2011. The vascular laboratory serves not only the Wade Park division, but outlying clinics throughout northern Ohio.

## DIVISION EDUCATION

The Louis B. Stokes Cleveland VA Medical Center is an integrated teaching site for the general surgical residency program at Case Western Reserve University. Residents rotate on general surgery, vascular surgery, and cardiothoracic surgery. Residents are afforded significant responsibility for patient care in the operating rooms, on the wards, in the surgical intensive care unit, and in the outpatient clinics with attending supervision. In addition to teaching in the clinical setting, each of the VA rotations has a structured educational program. The general surgical experience includes weekly, half-day sessions dedicated to education with SICU teaching rounds, a general surgery conference with case-based teaching, and pathology conference where specimens from the previous week are reviewed with the pathology staff. The vascular surgical service also has a formal weekly half-day of teaching, including SICU teaching rounds, case-based teaching rounds, an angiography conference, and an Indications

Conference. Residents on the cardiothoracic surgery service have one-on-one weekly teaching sessions with faculty, including technical teaching of bedside procedures. These residents also participate in a weekly tumor board with their faculty. Residents from all services participate in the weekly morbidity and mortality conference.

Residency programs in the surgical subspecialties, including plastic surgery, ophthalmology, orthopaedic surgery, otorhinolaryngology and urology include the VA as a primary teaching site and share faculty with University Hospitals Case Medical Center. The Cleveland VA Medical Center also sponsors two VA-based residency programs; one in podiatry and podiatric surgery in conjunction with the Ohio College of Podiatric Medicine; and one in optometry in conjunction with the Ohio State University.

### DIVISION RESEARCH

Surgical sections at the Cleveland VA are active participants in the VA cooperative studies program and have served as sites for a number of cooperative studies projects. Current cooperative studies include comparison of open and endovascular repair of aortic aneurysms and a comparison of outcomes in coronary artery bypass surgery performed versus off-pump bypass. Several members of the Service are involved with the Cleveland Functional Electrical Stimulation (FES) program and have primary responsibility for projects within the FES center. There is ongoing clinical research in the areas of outcomes in carotid disease, atherectomy, hernia repair, colorectal cancer, and urologic surgical oncology. One surgical faculty member has obtained a grant to study and initiate novel approaches to the multidisciplinary care of patients with breast cancer which will be expanded to include our large population of colorectal cancer patients in its second phase anticipated to begin in 2014.

A state-of-the-art, fully integrated electronic medical record system provides the opportunity to investigate a large volume of clinical data across the spectrum of each patient's care and across the VA population. Utilization of this capability can lead to some very interesting database clinical research projects. Residents and students are strongly

encouraged to take advantage of these longitudinal research opportunities during their training.

### PATIENT CARE

The Surgical Service at the Cleveland VA Medical Center offers a wide range of surgical care. Patient care is provided by house staff under the supervision of full-time and part-time faculty and with the assistance of a number of nurse practitioners and physician assistants. Over 4,400 surgical procedures were performed in the operating rooms in 2011. Surgical outcomes at the Cleveland VA are quite good, with the Service achieving better than predicted outcomes in the Veterans Administration Surgical Quality Improvement Project (VASQIP) in 9 of the last 12 years and serving as a model for quality in the Veterans' Integrated Service Network in Ohio and in the Cleveland surgical community.

### ON-CALL COVERAGE AT THE CLEVELAND VA MEDICAL CENTER

A surgical hospitalist covers the Surgical Service along with junior residents four of the seven nights of the week from 5:00 p.m. to 7:00 a.m., providing senior in-house supervision, back-up, and teaching for the junior residents. In addition, the surgical hospitalist takes all responsibility for patients in the Surgical Intensive Care Unit those four nights of the week. The Chief resident is expected to cover one of the three weekend nights in the SICU as the only in-house responsibility, providing optimum opportunity for the Chief resident to participate in operative cases throughout the week, to manage his/her service, and to prepare for teaching conferences and other administrative responsibilities.



## DEPARTMENT OF SURGERY RESEARCH ACTIVITY

- VA Cooperative Studies Program, "Open versus Endovascular Repair of Aortic Aneurysms (OVER)." Jessie Jean-Claude, MD, Site PI.
- VA Cooperative Studies Program, "VA Coronary Artery Revascularization in Diabetes Study (VACARDS)." Brian Cmolik, MD, Site PI.
- Clinical Trial of the ON-X Valve Using Low Dose Anticoagulation, Brian Cmolik, MD, PI.
- VA Cooperative Studies Program, "Outcomes Following Cardiovascular Revascularization: On and Off Cardiopulmonary Bypass." Diana Whittlesey, MD, Site PI.
- VA Career Development Award, "Photoreceptors During Chromophore Deprivation and Supplementation." Johnny Tang, MD, PI.
- VA Merit Review, "Joint Replacement Utilization Disparity: The Role of Communication." Denise Kresevic, RN, PhD, PI.
- Cuff Electrodes in Functional Electrical Stimulation, Gilles Pinault, MD, PI.
- Quality Scholars Program Fellowship: Melanie Lynch, MD.
- VA Center of Excellence Research Grant, "Multidisciplinary Breast Cancer Care". Melanie Lynch, MD, PI.

## DIVISION GOALS

Goals include expansion of services to meet ever increasing veteran patient demand. This will include the need to expand our operating rooms. New construction is underway. We also plan to expand our outpatient clinics to accommodate a significant increase in demand across the surgical sections and to reduce outpatient clinic waiting times. The General Surgery section plans to expand its educational program with a teaching series of core topics frequently encountered in the VA population. The Vascular Surgery Section will anticipate participating in a VA cooperative study of carotid stent outcomes. A large study of catheter-based atherectomy outcomes will begin soon.

In conjunction with interventional radiology, we have established a minimally invasive Vascular Center of Excellence for our network. The Cardiac Surgery staff has pursued training in minimally invasive techniques and plans to participate in a clinical study comparing outcomes of coronary artery bypass grafting with angioplasty and stenting in diabetic patients. We have expanded our non-physician clinical staff to meet both patient care needs and resident duty hours restrictions. We are also working to expand our research activities in all sections.

## TEACHING CONFERENCE SCHEDULE

Mondays	Tumor Board Conference
Breast Cancer Case Conference	8:00 – 9:00 a.m.
8:00 – 9:00 a.m.	Conference Room K-119
Dept. of Radiology Conference Room	
	General Surgery Indications Conference
GI Multidisciplinary Tumor Board Conference	9:00 – 10:00 a.m.
12:00 – 1:00 p.m.	SICU Conference Room
Lincoln Conference Room	
	Critical Care Walk Rounds
Tuesdays	10:00 – 11:00 a.m.
Vascular Section Walk Rounds	SICU
7:30 – 9:00 a.m.	
Ward 5A	Pathology Gross and Microscope Conference
	11:00 a.m. – 12:00 p.m. (monthly only)
Multidisciplinary Vascular Conference	Dept. of Pathology Morgue Conference Room
9:00 – 10:00 a.m.	
SICU Conference Room	
	Fridays
Thursdays	CV Surgery/Cardiology Multi-disciplinary
Morbidity and Mortality Conference	Catheterization Conference
(General and Vascular Surgery Sections)	7:00 – 8:00 a.m.
7:00 – 8:00 a.m.	Cardiac Catheterization Lab Conference Room
Conference Room K-119	