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Message from the Chair

Welcome to Duke! That you have chosen to dedicate your time to visit Duke and consider our program for your residency training indicates you are seeking a high-caliber experience that will prepare you for a rewarding career in academic surgery. That you have been selected for an interview should provide affirmation you have the capacity to excel in surgery, and both derive benefit from and contribute to the field. I am thus very glad that you are here, and hope that your visit will help you determine whether Duke is the best fit for you. Your choice of training program will define your career, and indeed, our choice of residents defines our institution. As such, this is an important decision for us both.

During your visit to Duke, you will have an opportunity to meet our residents and faculty, tour our facilities, and gain insights into our training philosophy. You will no doubt find both breadth and depth in the resources available to you; including state-of-the-art clinical operating and patient care facilities, comprehensive training and simulation venues; a well-organized, enthusiastic and dedicated educational faculty engaged in a comprehensive didactic curriculum; and an exceptionally developed and well-funded surgical research enterprise embedded within the larger environment of a world-class research university. The comprehensive offering of clinical, educational, and research platforms organized within a single institution makes Duke among the few institutions that can deliver on the promise to create future leaders in surgery, and it is my personal commitment to offer each trainee the opportunity to go beyond mere assimilation of the current standard, and aspire to define future paradigms.

I genuinely look forward to meeting each of you, learning what contribution you hope to make to the field of surgery, and determining how I can help you reach your career goals.

Sincerely,

Allan D. Kirk, MD, PhD, FACS
David C. Sabiston, Jr. Distinguished Professor and Chairman
Department of Surgery
Duke University School of Medicine
Surgeon-in-Chief
Duke University Health System
Welcome

Message from Residency Program Director

I would like to welcome you on behalf of the Duke Department of Surgery and I am grateful for your interest in our General Surgery Residency Program. The decision on where to train in surgery represents the most important decision in the trajectory of a surgeon's career. Formal clinical training as well as research into basic or translational medicine will predict success in obtaining competitive fellowships and academic positions.

The Department of Surgery at Duke's primary goal is to provide an outstanding clinical and investigative program for students, residents, and faculty. The clinical training program in general surgery is dedicated to providing comprehensive training in patient care and operative surgery. This encompasses the entire breadth of core general surgery and the general surgery subspecialties, which includes cardiothoracic, abdominal transplant, oncology, vascular, endocrine, colorectal, trauma, and pediatric surgery. The Duke General Surgery Residency Program offers diverse clinical settings for training and includes operative experiences at Duke University, Duke Raleigh, Duke Regional, and the Asheville/Durham Veteran's Administration hospitals.

We have developed an exemplary and well-rounded educational program for residents in training. Formalized meetings include weekly conferences such as Grand Rounds, Deaths & Complications Conference, Chairman's Rounds, and the Chief Resident Conference, which provide a curriculum geared toward both formal and self-directed learning. We also have integrated into the educational program a world-class simulation curriculum housed in the American College of Surgeons-accredited Simulation and Educational Activities Lab (SEAL) located in the medical school. Our simulation activities encompass the entire gamut of modalities including video/box trainers, fresh-tissue preparations, live animal studies, and cadaver experiences.

The cornerstone of the General Surgery Residency at Duke is the two-year research fellowship, typically integrated between the second and third clinical years. During these two years, our surgical residents begin a dedicated investigative experience designed to give each resident an opportunity to develop granular expertise in an area of their choosing. These can include basic or translational science projects, experiences in health services or clinical outcomes research, studies in global medicine, or indeed any thoughtfully conceived knowledge creation endeavor. Innumerable basic science opportunities exist not only in the Department of Surgery, but also across both the graduate and undergraduate campuses.

There are also multiple dual-degree opportunities obtained via the Duke Clinical Research Training Program, the Fuqua School of Business, and the Duke Clinical Research Institute. The goal of this research experience is to create thought leaders in academic surgery at both an...
institutional and national level, and to provide each Duke resident with a concentrated expertise in their chosen field.

You should consider a number of factors when choosing a residency program and clearly one of the most important is the track record of the recent graduates. The training program is intentionally broad-based and has produced graduates with a wide variety of clinical and research interests. As you will find in the summaries enclosed, our graduates obtain access to the most highly sought-after academic jobs and specialty training fellowship programs, and make up a significant number of the chairs, chiefs, and program directors nationwide.

We are proud of our program and achievements, and we are honored that accomplished medical students like you have expressed interest in our residency. I hope that over the course of your interview experience you come away as excited as I am about our programs.

We encourage questions and hope you enjoy your visit.

Sincerely yours,

John Migaly, MD
Program Director
General Surgery Residency
As one of the top surgery programs in the world, the Duke Department of Surgery is dedicated to providing unparalleled clinical care, conducting pioneering research, and training the next generation of leaders in clinical and academic surgery. Patients from all over the world seek treatment from its team of experts, who have access to the clinical standard in all surgical domains, as well as experimental procedures and specialized care that extends beyond the current offerings of most hospitals. This provides the best opportunity for each patient to gain their best clinical outcome, and as such attracts a patient population representing an exceptionally broad clinical spectrum from which the trainee can learn.

Since the 1930s, Duke Surgery has led the way in medical innovations. It established the nation's first brain tumor program in 1937 and was one of the first U.S. institutions to successfully perform a kidney transplant nearly 30 years later. Duke surgeons have pioneered techniques in vascular free flaps and cardiopulmonary bypass, and led innovations in sterile technique, advanced immunotherapy, advanced oncologic viral therapy, and vaccine-based immunotherapy for cancer. In 2013, surgeons implanted a bioengineered vascular graft in a patient — a first-of-its-kind operation in the United States with potential to revolutionize vascular surgery.

The Department of Surgery's internationally recognized faculty is focused on making gains in basic, clinical, and translational research, and it has traditionally received more NIH funding than any other surgery department in the world. The faculty is also deeply committed to preparing tomorrow's leaders for careers in surgery with the highest level of training and access to unique research and leadership training opportunities.

The Department currently provides attending surgical coverage at Duke University Hospital, Duke Regional Hospital, Duke Raleigh Hospital, and two VA hospitals: Asheville VA and Durham VA hospitals. The general surgery faculty maintains an exceptionally busy practice, conducting over 30,000 operative procedures per year on a background of 70,000 procedures across all surgical specialities. As the Triangle area is perennially one of the fastest growing communities in the United States, Duke continues to expand with new operative platforms and a growing clinical and research faculty. This robust clinical volume combined with remarkably competitive faculty members adept in acquiring grant funding has led to a fiscally solvent department. It is this solvency that allows the Department to continue its unwavering dedication to residency training both on the wards and in the laboratory.
1891
Trinity College President John Franklin Crowell makes public a plan for starting a medical college with a teaching hospital at Trinity College.

1924
James B. Duke establishes The Duke Endowment and allocates part of his $40 million gift to transform Durham’s Trinity College into Duke University.

1925
James B. Duke makes an additional bequest to establish the Duke School of Medicine, Duke School of Nursing, and Duke Hospital, with the goal of improving health care in the Carolinas and nationwide.

1927
Construction begins on the medical school and Duke Hospital.

1929
Three thousand applicants apply to the new medical school. Seventy first- and third-year students are selected, including four women.
Duke University Medical Center History

1930
Duke Hospital opens July 20, 1930, attracting 25,000 visitors.
Classes begin in hospital administration, dietetics, and medical technology on August 15.
Eighteen third-year and 30 first-year medical students begin classes on October 2.

1931
The Duke School of Nursing’s first class of 24 undergraduate students begin classes on January 2.
The dedication ceremony for Duke Medical School and Duke Hospital is held on April 20.
The Private Diagnostic Clinic, Duke’s physician practice organization, is organized September 15.

1940
The first wing is added to Duke Hospital.
The 65th General Hospital is authorized as an affiliated unit of the Duke University School of Medicine on October 17.

1957
The Outpatient Clinic and Private Diagnostic Clinic as well as the Hanes and Reed private floors and operating rooms are opened.
The original medical school and hospital are renamed Duke University Medical Center.
1966
A new hospital entrance, the Woodhall Building, opens.

1980
The new $94.5 million, 616-bed Duke Hospital opens, bringing the total number of patient beds to more than 1,000.

1998
The Duke University Health System (DUHS)—an integrated academic health care system serving a broad area of central North Carolina—is officially created as Duke establishes partnerships with Duke Regional Hospital, Raleigh Community Hospital, and other regional health care providers. DUHS today includes three hospitals, ambulatory care and surgery clinics, primary care medical practice clinics, home health services, hospice services, physician practice affiliations, managed care providers, and other related facilities and services.

2007
Future DUHS expansion includes the development of the Hospital Addition for Surgery (HAFS) building.

The Emergency Department (ED) Expansion project provides 71 treatment spaces accommodating over 60,000 annual visits, including a full Pediatric ED, 4 trauma resuscitation rooms, CT scanner, X-ray, decontamination area, ambulance garage, a daylit waiting area, and a linear exam area arrangement for increased efficiency.

2009
DUHS moves forward with the construction of a dedicated, state-of-the-art cancer center and the new Duke Medicine Pavilion, a major expansion of surgery and critical care services at Duke University Hospital.
Duke University Medical Center

2012
A new landmark opens its doors on Duke's medical center campus—the seven-story, 267,000-square-foot Duke Cancer Center. More than just a modern space, it's an environment designed to transform the experience of every patient welcomed inside. The center consolidates outpatient cancer services and clinical research from across the campus into a patient-centered, multidisciplinary facility. The building adjoins the current Morris Cancer Clinic and is equipped with, among other features, 140 examination rooms, 75 infusion stations, a pharmacy, and an outdoor garden terrace where chemotherapy patients can go while receiving their infusions.

2013
The Mary Duke Biddle Trent Semans Center for Health Education opens in January 2013. The six-floor, 104,000-square foot building houses a meeting hall, a team-based learning auditorium, teaching labs, and clinical skills and medical simulation space, including the Surgical Education and Activities Lab (SEAL).
The Duke Medicine Pavilion at Duke University Hospital opens in June 2013. The eight-floor, 608,000-square foot pavilion includes 160 critical care rooms, 18 operating rooms, and an imaging suite. The operating suites feature the latest in surgical technologies, as well as intraoperative magnetic resonance and computed tomography (CT) imaging capabilities that enable greater real-time precision and safety in complex procedures. With Duke University Hospital having to turn more than 900 patients away the previous year due to lack of space, the newly created critical care beds were urgently needed. Also, the 64 new intermediate care beds allow for optimal transition of patients from intensive care beds to standard hospital rooms.

The expanded Duke clinical facilities also provide state-of-the-art training and education for the nearly 900 residents and fellows at Duke—one of the largest training programs in the United States.

This major expansion project follows several recent significant capital projects throughout Duke Health, including renovations at Duke Raleigh Hospital and Duke Regional Hospital, and the opening of several new clinics in Wake County (Brier Creek, Morrisville, Knightdale, and North Raleigh).

2016
Duke University begins construction of a third Medical Sciences Research Building (MSRB). The $103 million, 155,000-square-foot building will exclusively house bench lab research.

2017
Duke University Hospital broke ground on a new hospital tower due to open in 2020.
## Duke Surgery Milestones

### Blazing Trails in Medicine for More than Seven Decades

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<th>Event</th>
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<tr>
<td>1936</td>
<td>J. Deryl Hart, MD, introduces ultraviolet lamps into operating rooms to kill airborne germs that cause postoperative Staph infections, dramatically reducing the number of infections and related deaths.</td>
</tr>
<tr>
<td>1937</td>
<td>Duke establishes nation's first brain tumor program.</td>
</tr>
<tr>
<td>1955</td>
<td>Duke initiates children’s amputation clinic for prostheses and management as part of nationwide network.</td>
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<tr>
<td>1956</td>
<td>Duke becomes the first institution to use systemic hypothermia during cardiac surgery. This technique of cooling patients to less than 50 degrees Fahrenheit to minimize tissue damage during lengthy surgical procedures is now standard practice worldwide.</td>
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J. Deryl Hart and surgical team in protective clothing operating on a patient under the sterilamp in 1937 (DUMC Archives)

Open heart surgery, Dr. Will Camp Sealy operating, Circa 1956 (DUMC Archives)
### Blazing Trails in Medicine for More than Seven Decades

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<th>Event</th>
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<tr>
<td>1965</td>
<td>Duke is one of the first institutions in the country to successfully perform a kidney transplant.</td>
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<td>1968</td>
<td>Duke cardiac surgeon performs first operation to treat Wolf-Parkinson-White syndrome.</td>
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<td>1969</td>
<td>Duke orthopaedic surgeon performs first total hip replacement in the South.</td>
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<td>1971</td>
<td>Duke Comprehensive Cancer Center becomes one of the nation’s first cancer centers.</td>
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<td>1972</td>
<td>Duke surgeons are the first to reattach a severed thumb more than eight hours after it was amputated.</td>
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<td>1979</td>
<td>Duke surgeons are the first to treat avascular necrosis (AVN) of the femoral head with free vascularized fibular graft.</td>
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<td>1982</td>
<td>Duke conducts first and only randomized trial comparing radical surgery to radiation for adenocarcinoma of the prostate gland.</td>
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<tr>
<td>1984</td>
<td>Duke surgeons perform first liver transplant in the state of North Carolina.</td>
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<tr>
<td>1992</td>
<td>Duke physicians perform the first lung transplant and the first heart/lung transplant in hospital history.</td>
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<tr>
<td>1993</td>
<td>The anti-HIV drug therapy (Fuzeon) is developed by Trimeris as a direct result of research conducted in the Duke Surgical Oncology Labs. Duke Endosurgery Center opens.</td>
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# Duke Surgery Milestones

## Blazing Trails in Medicine for More than Seven Decades

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<td>1997</td>
<td>Duke Human Fresh Tissue Lab opens.</td>
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<td>2004</td>
<td>Duke Center for Translational Research is established.</td>
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Duke Human Fresh Tissue Laboratory opens in 1997

Duke Surgical Education and Activity Lab (SEAL) opens in 2005
## Blazing Trails in Medicine for More than Seven Decades

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<td>2006</td>
<td>Duke Thoracic Surgery and Duke Urology specialty clinics open in Raleigh, NC. Duke Weight Loss Surgery Center is designated as a Center of Excellence by the American Society of Bariatric Surgery.</td>
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<td>2007</td>
<td>Duke Otolaryngology - Head and Neck specialty clinic opens in Raleigh, NC.</td>
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<tr>
<td>2008</td>
<td>Duke’s Surgical Education and Activities Lab receives accreditation by the American College of Surgeons as Comprehensive Education Institute.</td>
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<tr>
<td>2011</td>
<td>Duke Neurosurgery specialty clinic opens in Raleigh, NC.</td>
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<tr>
<td>2012</td>
<td>Surgical Education and Activities Lab receives first in state robotic trainer.</td>
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<td>2013</td>
<td>Duke surgeons begin first ever clinical trial with bioengineered blood vessel. 2013 Duke Surgery partners with the departments of Anesthesiology and Pathology to launch MedBlue, a venture capital company developed to support early stage innovation by Duke faculty and residents.</td>
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<td>2014</td>
<td>Duke Heart Transplant team performs the 1000th heart transplant at Duke.</td>
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<td>2015</td>
<td>Duke pediatric surgeons separate conjoined twins.</td>
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<td>2016</td>
<td>Duke surgeons perform the first hand transplant in North Carolina. Surgical program at Duke Children’s Hospital receives Level 1 designation from ACS.</td>
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Duke’s first hand transplant was performed on May 27, 2016 (Credit: Shawn Rocco)
About the Department of Surgery

The rich history and high standards that bore Duke University are also deeply rooted within the Department of Surgery.

Duke Surgery Department Chairs

Dr. David Sabiston, Jr. conducting teaching rounds with residents under the portrait of Dr. Deryl Hart, founding Chairman of the Duke Department of Surgery (DUMC Archives)

A Tradition of Excellence

The rich history and high standards that bore Duke University are also deeply rooted within the Department of Surgery.

J. Deryl Hart, MD
1930–1960

Duke Hospital's first dean, Dr. Wilburt Davison, appointed a Johns Hopkins surgeon, Dr. J. Deryl Hart, to be professor of surgery and the first chairman of the department in 1930. After stepping down as chairman in 1960, Dr. Hart served as president of Duke University. During his tenure as chairman, Dr. Hart expected faculty members to assume major clinical and teaching responsibilities and to pursue laboratory research. He recruited the founding members of the surgical faculty and established Duke's surgery residency. Dr. Hart is also credited with originating the use of ultraviolet radiation to control airborne infections in surgical operating rooms.
The emphasis Dr. Hart placed on achieving excellence in patient care and teaching by integrating research with development laid the foundation for an institution that remains one of the top medical centers in the country. His philosophy was central to the department’s mission in 1930 and continues today. Under the leadership of the successive chairs — Drs. Clarence E. Gardner (1960-1964), David C. Sabiston, Jr. (1964-1994), Robert W. Anderson (1994-2003), Danny O. Jacobs, (2003-2012), and Allan D. Kirk (2014- present) — the model system of integrating the fundamental missions of academic medical centers (patient care, education, research, and administration) was enhanced within the Department of Surgery at Duke. Dr. Gardner was Dr. Hart’s first chief resident and continued on as a Duke faculty member after completing his surgical training.

Dr. David C. Sabiston, Jr. completed medical school and surgical training at Johns Hopkins Hospital under the mentorship of Dr. Alfred Blalock. He distinguished himself in the field of cardiovascular diseases. Notable among his academic achievements were his pioneering work in the surgical management of coronary artery disease and, while at Duke, groundbreaking work in the diagnosis and management of pulmonary embolism. Dr. Sabiston will be remembered most for his profound effect on surgical education, both nationally and internationally. This is most evident when reviewing the list of successful graduates who have gone on to lead departments, divisions, and programs and whose portraits adorn the hallways outside of the department offices.

Dr. Robert W. Anderson followed Dr. Sabiston as chairman and returned to the site of his surgical training. Social and economic influences were rapidly altering academic medicine in 1994. Dr. Anderson, an accomplished cardiothoracic surgeon with additional training in business administration, successfully led a department seeded as the epitome of traditional education and training, research, and clinical excellence while addressing the major changes in practice reimbursement that had occurred. This leadership solidified Duke’s fiscal stature and has facilitated a continued dedication to a tripartite mission of clinical, educational, and investigational achievement.
Dr. Danny Jacobs was recruited to Duke in 2003, where he served as the David C. Sabiston, Jr. professor and chair until October 2012. Dr. Jacobs currently is the executive vice president, provost, and dean of the School of Medicine at the University of Texas Medical Campus in Galveston. During his 10 years at Duke, Dr. Jacobs proved himself to be a highly effective leader, committed to the success of all three missions within the Department of Surgery. He left Duke in a good position for his successor to continue the legacy of excellence that is Duke Surgery.

Dr. Allan D. Kirk was named chair of the Department of Surgery at Duke University in May 2014. He also was named as the inaugural Surgeon-in-Chief for the Duke University Health System. Dr. Kirk received his MD from Duke University School of Medicine in 1987 and completed his PhD in immunology at Duke in 1992. He completed his general surgery residency at Duke in 1995, and his multiorgan transplant fellowship at the University of Wisconsin in 1997. An accomplished scientist and surgeon, Dr. Kirk is recognized by his peers for his pioneering work in transplantation and for his outstanding ability to lead. Prior to returning to Duke, he served as a Commander in the United States Navy at the Naval Medical Research Institute, became the inaugural Chief of the Transplantation branch at the National Institutes of Health, and served as Vice Chair for Research for the Department of Surgery at Emory University. He has been recognized by induction to the National Academy of Medicine. His commitment to rigorous education and training, innovative research, and the most advanced patient care make him an excellent leader for Duke Surgery.
The Department of Surgery’s residency program gives students the opportunity to gain hands-on experience providing care for diverse populations and treating a wide range of conditions. With five world-class facilities, surgical residents can take advantage of valuable training opportunities, from pediatric through geriatric procedures, including comprehensive experiences in hepatobiliary surgery, transplantation, vascular surgery, and advanced laparoscopic procedures. The program includes experience in community and VA-based care, which is crucial for surgeons interested in academic careers. Residents become equipped with the knowledge and skills needed to be competitive in the workforce.

**Duke University Hospital (DUH)**

Consistently ranked as one of the top ten hospitals by U.S. News & World Report, the 989-bed Duke University Hospital is a tertiary and quaternary care hospital and Level I trauma center. On its 210 acres, it houses comprehensive diagnostic and therapeutic facilities that serve a multistate region, drawing patients routinely from the Carolinas, eastern Tennessee, southern Virginia, Georgia, and Florida. Many of its programs also attract patients from other national and international sites. The main hospital is complemented by a state-of-the-art ambulatory surgery center situated two blocks away. Recent and ongoing additions to Duke Hospital continue to add operative capacity and the patient volume continues to grow, consistent with the booming population moving to the Triangle area.

**Duke Regional Hospital (DRH)**

DRH is a 369-bed acute care hospital that has been serving the community’s health care needs since 1976. A comprehensive facility, it offers Duke surgical residents experience in inpatient, outpatient, surgical, and emergency care. The medical facility also features a level II intensive care nursery, the 30-bed Durham Regional Rehabilitation Institute, and the Davis Ambulatory Surgical Center. It also has a nine-bed coronary care unit and a 17-bed intensive care unit. Other training opportunities include the highly acclaimed Duke Bariatric Surgery and Advanced Laparoscopic programs.
Facilities

Durham Veterans Administration Hospital (DVAMC)

This 274-bed general medical and surgical facility is located just across the street from Duke Hospital. The DVAMC provides general and specialty medical, surgical, psychiatric inpatient, and ambulatory services and is a major referral center for veterans in North Carolina, southern Virginia, northern South Carolina, and eastern Tennessee. In this capacity, the DVAMC accommodates veterans from these regions with complex general, vascular, and cardiothoracic needs and, in addition, serves local veterans requiring care for common general surgical disorders.

Asheville Veterans Administration Hospital (AVAH)

The Asheville VA Medical Center is a tertiary care, 112-bed acute care facility located in western North Carolina. Asheville VA operates a separate 120-bed Extended Care and Rehabilitation Center, serving the western North Carolina area and portions of South Carolina, Tennessee, and Georgia. General surgical residents rotating through AVAH gain additional experience in vascular surgery, general surgery, cardiac surgery, and endoscopy.

Duke Raleigh Hospital (DRaH)

This is a 148-bed general medical and surgical hospital in Raleigh. The Duke Raleigh rotation provides residents with a community-based general surgery experience that includes what would be considered “bread and butter” general surgery, such as cholecystectomy, hernia, breast biopsy, mastectomy, and colectomy. It is currently expanding to include a comprehensive weight management program and enhanced general surgical oncology.
Duke Health and Duke University

With a top-ranked medical school, health system, and university, Duke University is a hub for academic excellence and innovation. Located in Durham, N.C. — one of the fastest growing areas in the country and a center of biomedical research — it produces leaders in fields ranging from business to engineering to public policy. Duke Health, which comprises Duke University Health System, Duke University School of Medicine, and Duke University School of Nursing, consistently ranks as one of U.S. News & World Report's best medical centers.

Duke Health is an international leader in health care, research, and training. Its state-of-the-art facilities include the flagship Duke Hospital and two community hospitals, Durham Regional and Duke Raleigh. It's also affiliated with other health care facilities, including local hospitals, community-based primary care physician practices, and hospice care. The School of Medicine has 31 departments, centers, and institutes, and employs more than 2,000 faculty members. Duke logs more than 61,000 inpatient stays and 1.8 million outpatient visits each year.

Duke Health offers world-class education for some of the brightest minds in medicine. Programs promote multidisciplinary collaboration between basic science, translational, and clinical faculty. Trainees are encouraged to pursue research in their area of interest and, upon graduation, are uniquely positioned for sought-after clinical or research positions.
Durham, North Carolina

Located halfway between the stunning Blue Ridge Mountains and the spotless beaches of the Outer Banks, Durham is the fourth largest municipality in North Carolina. Visitors come to Durham for its sports teams, eclectic restaurants, and diverse culture; residents live here for its reasonable cost of living, strong sense of community, and agreeable weather. From Forbes to USA Today, the Raleigh-Durham area consistently lands on the major top 10 lists of best places in the country to visit, live, and do business.

Durham has the charm of a Southern college town with the amenities of a larger city. The nearby Research Triangle Park, the largest research park in the country, is a wellspring of advancements and career opportunities in biotechnology, environmental sciences, and pharmaceuticals. The annual Full Frame Documentary Film Festival brings together people from all over the world to showcase the work of new and established filmmakers. With more than 60 parks, an extensive network of running and biking trails, and several major waterways, the city offers abundant activities for outdoors enthusiasts. Access to and from Durham is convenient, as the RDU airport just 12 miles outside the city.

Community Engagement

**General Surgery Interest Group**

The Duke Department of Surgery sponsors the General Surgery Interest Group, a student-run organization that allows students to learn more about careers in general surgery through information sessions, case discussions, hands-on experiences, and professional mentorship facilitated by student-resident partnerships.

**ASSET Program**

The Department of Surgery has partnered with the Durham Nativity School to provide surgical skills workshops as part of the Academic Success Through Surgical Education and Training (ASSET) program. This program aims to foster high achievement in science through surgical education for financially disadvantaged students at the school.

**Duke Cycling Team**

The Department of Surgery sponsors the Duke University Cycling Team coached by Ben Turits. The triangle area is an exceptional area for cycling and outdoor activities in general. There are numerous cycling events year round, including group rides with the team and faculty.
Surgical Center for Outcomes Research (SCORES)

Duke SCORES (Surgical Center for Outcomes Research) is a novel, transdisciplinary effort that promotes excellence in HSR for various surgical patient populations. Duke SCORES serves as a hub for education, research, mentorship, and resources to enable trainees and faculty to ask and answer questions with direct translational relevance to clinical research, patient care, safety, and quality improvement.

Goals

• Support surgical faculty and trainees interested in HSR, and provide house staff with skills to engage in outcomes research.

• Provide resources for current and future investigators by establishing a central library of current datasets and other pertinent software.

• Educate investigators interested in HSR through alignment and expansion of an existing educational platform that will leverage the work of thought leaders across Duke University Medical Center and Duke University.

• Recognize excellence in surgical outcomes research by highlighting work done both within the Department of Surgery and by nationally prominent visiting professors.

SCORES Scholars Program

The Duke SCORES Scholars Program provides funding of up to $15,000 per project for 12 months to catalyze investigations of key questions in surgical outcomes research. The goals of this program are to foster new collaborations among Duke researchers, support research teams in obtaining preliminary data that will be used to apply for larger awards, and provide opportunities for mentoring and training for junior faculty, residents and medical students.
The Surgery Clinical Research Unit (CRU) operates within the Surgery Office of Clinical Research ("SoCR"). The SoCR was established to provide turn-key clinical trial support for the Department of Surgery's principal investigators, trainees, clinical research coordinators, and study sponsors.

The SoCR assists with protocol design, budget development, sponsor negotiations, site feasibility assessments, study operations, staffing support, database design and data integrity, regulatory document preparation, submission compliance, research practice training, clinical audit, and serves as a liaison with the contracts and finance offices as well as inter-departmental resources.

In keeping with the mission of Duke Medicine and the Department of Surgery, the SoCR is committed to providing training of tomorrow's leaders and the conduct of innovative research that impacts healthcare outcomes for all patients.

Residents and Fellows

Duke Surgery residency and fellowship programs offer opportunities to be involved in clinical research. Please contact the Residency or Fellowship Coordinator about the research training available and required in your residency or fellowship program.

Develop and discuss your research idea with a faculty member

- What is the research question being asked?
- What data is needed to answer the research question?
- Perform a literature search
SSCRS was developed in 2014 to support the increasing need for high-quality, well-characterized biological samples to enhance basic science research within the Department of Surgery. SSCRs collects, processes, banks, and manages high-grade biological samples combined with correlated clinical, histopathologic and phenotypic data. A variety of sample types are collected, such as whole blood, effluent, CSF, urine, stool, tissue, sputum, lavage, wound debridement and fluid collection from collection systems (e.g. wound vacuums, endotracheal tubes). SSCRSS processes and derivatizes these samples into blood and cellular fractions, RNA, DNA and small molecule RNAs. SSCRSS also provides histological and immunohistochemical processing and analysis ensuring comprehensive histological characterization of samples and performs RNA extraction-free, quantitative nuclease protection assay (qNPA) with next-generation sequencing (NGS) mediated quantification to measure gene expression utilizing the HTG EdgeSeq Oncology Biomarker Panel (2,560 genes) and the HTG EdgeSeq Immuno-Oncology Assay (549 genes) and the HTG EdgeSeq miRNA Whole Transcriptome Assay (2,083 human miRNA transcripts).

The SSCRSS supports quality translational science through validated, standardized methodology and protocols that are implemented across studies, reducing non-relevant variability in results. To support this standardization, the core is in compliance with internationally-recognized Good Clinical Laboratory Practices and 21 CFR Part 11. Reproducibility across supported research is achieved through continued monitoring of the quality system by the Quality Assurance for Duke Vaccine Immunogenicity Programs (QADVIP), an independent quality assurance unit providing support to the SSCRSS.

The SSCRSS supports more than 30 clinical trials and collaborative studies, including National Institute of Health (NIH), Food and Drug Administration (FDA), Department of Defense (DoD) and industry studies and operates as a core facility for multiple multicenter studies providing a single point of contact for feedback in protocol development, standardized collection, processing methods, sample preparation and sample shipping, receiving and distribution. The SSCRSS anticipates supporting over 56 studies over the next year and is currently supporting 32 investigators over 3 departments and 20 divisions within the Duke University Medical Center.
Residency Programs

General Surgery Residency
The General Surgery Residency Training Program at Duke focuses on both clinical and research education, producing competitive graduates who are prepared for careers in academic surgery. Residents gain broad experience in operative surgery as they learn to evaluate and manage a high number of patients requiring all types of procedures, from vascular to hepato-pancreatic biliary surgery.

Rotations in both community and VA medical centers mean that residents get valuable, unique, and comprehensive training for a career in academic surgery. The program is broad, but trainees have the opportunity to focus on one or more specialties, such as endocrine surgery or transplantation. General surgery residents are expected to complete at least two years of focused research, and opportunities for laboratory or other discovery experiences are available within and outside of the department. Most trainees choose specialization and seek fellowship training upon completion of the residency program, and the research experience is universally cited as a major reason that Duke residents are highly competitive for academic fellowships and faculty positions.
Surgical Education at Duke

Duke surgical residents experience a wide variety of educational settings by rotating through Durham Regional, Duke Raleigh, Durham VA, and Asheville VA hospitals. Residents during their first two years develop a solid foundation in patient care, ICU management, and consultations. Junior residents finish their first two years with well over the minimum 250 operative cases required by the ACGME, thanks in part to the Department’s growing number of excellent physician-extenders.

Junior and lab residents will also develop their operative skills by participating in an advanced simulation curriculum developed with input from faculty and residents. Our innovative simulation program optimizes the educational experience to better suit residents’ schedules and shifts it earlier in our residents’ training, where it is most effective. This curriculum allows residents to master complex operative skills earlier in their training and safely prepares them for the autonomy and operative responsibilities required during their upper-level rotations.

Senior residents lead inter-disciplinary surgical teams and learn to manage the complex, high-acuity patient services one would expect at a high-volume academic institution. Their role is to act predominantly as service chiefs for rotations in hepatobiliary, surgical oncology, trauma/acute care, pediatric, transplant, thoracic, vascular, colorectal, breast, and endocrine surgery. At Duke University Hospital, all services use a night float system, which means patient care is covered by a consistent overnight team led by a night in-house chief. By graduation, Duke general surgery residents have an excess of operative experience well beyond the ACGME requirement of 850 cases minimum.

It is not just the case numbers, the challenging patients, or the simulation curriculum that creates a great surgeon. It is the intangible, un-quantifiable attributes of a program that shape trainees not only into skillful technicians but also cultivates them into future surgical leaders. At Duke, our greatest unmeasurable strength is our faculty and residents. The supportive leadership of our faculty and the enthusiastic involvement of our residents make Duke an exceptional place to train as a surgeon and develop as a leader.
Surgical Education Research Group (SERG)

The Surgical Education Research Group (SERG) was cofounded in 2015 by Dr. John Migaly (Program Director) and Dr. Shanna Sprinkle (PGY-5). With the support of the faculty and department, SERG from the beginning has been a resident- and medical student-driven endeavor.

The group provides a collaborative space to brainstorm and develop projects that advance surgical education at our institution and beyond. SERG now has the support of a talented research coordinator to help with logistics and administrative duties, allowing students and residents to focus on idea development and methodology.

Objectives

• PROMOTE knowledge of high-quality education research and methodologies.

• SUPPORT development of skills as surgical educators.

• ELEVATE the quality and productivity of educational research efforts.

• ESTABLISH education research as a valuable pillar in the Duke Surgery research enterprise.
Program Highlights
In its short history, the group has obtained three separate grants, presented at several national meetings, and developed an iPhone application, podcast, and several devices. This past spring, the group also developed and ran the university's first Surgical Technique and Review (STAR) Intern course for third and fourth-year medical students.

We have ongoing projects within all realms of surgical education, working to improve surgical knowledge, curriculums, technical skills, and behavior. As we continue to grow, we look forward to exploring new, novel ideas that will keep Duke at the forefront of surgical education research!

Contact Us
If you would like to join, collaborate, or learn more about Duke SERG, please email Shanna Sprinkle at shanna.sprinkle@duke.edu.
## How Does Duke Compare?

### 2016 FREIDA Data

<table>
<thead>
<tr>
<th></th>
<th>National Average</th>
<th>Duke</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of accredited training</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Required length</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Average number of PY1 interviews</td>
<td>84.1</td>
<td>85</td>
</tr>
<tr>
<td><strong>Residents</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average number of residents/fellows</td>
<td>31.9</td>
<td>32</td>
</tr>
<tr>
<td>Average percent female</td>
<td>36.1</td>
<td>28.1</td>
</tr>
<tr>
<td>Average percent international medical graduates</td>
<td>18.4</td>
<td>6.25</td>
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<tr>
<td><strong>Faculty</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average number of full-time physical faculty</td>
<td>32.8</td>
<td>69</td>
</tr>
<tr>
<td>Average number of part-time physical faculty</td>
<td>3.5</td>
<td>0</td>
</tr>
<tr>
<td>Average percent female full-time physician faculty</td>
<td>18.3</td>
<td>27.0</td>
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<tr>
<td>Average ratio of full-time physician faculty to resident/fellow</td>
<td>1.0</td>
<td>2.1</td>
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<tr>
<td><strong>Resident work hours (PY1)</strong></td>
<td></td>
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</tr>
<tr>
<td>Average hours on duty per week</td>
<td>74.0</td>
<td>75.2</td>
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<tr>
<td>Average maximum consecutive hours on duty</td>
<td>17.9</td>
<td>16</td>
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<tr>
<td>Average days off duty per week</td>
<td>1.0</td>
<td>1.0</td>
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<tr>
<td><strong>Work environment and compensation (PY1)</strong></td>
<td></td>
<td></td>
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<tr>
<td>Average percent of training in hospital outpatient clinics</td>
<td>17.4</td>
<td>15.0</td>
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<tr>
<td>Average percent of training in non-hospital ambulatory care community settings</td>
<td>8.1</td>
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<tr>
<td>Average resident/fellow compensation</td>
<td>$52,607</td>
<td>$53,850</td>
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<tr>
<td>Average number weeks of vacation</td>
<td>3.3</td>
<td>2</td>
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</table>
Conferences

Schedule

**Monday**
Intern (PGY-1) Conference (Intern School) 5:30 p.m. – 6:30 p.m.

**Tuesday**
Duke Regional Hospital Conference 6:30 a.m. – 7:30 a.m.

**Wednesday**
Surgical D&C Case Conference* 6:00 a.m. – 7:00 a.m.
Surgical Grand Rounds* 7:00 a.m. – 8:00 a.m.
SCORE Curriculum Conference* 8:15 a.m. – 9:15 a.m.
Simulation Lab* 9:30 a.m. – 12:30 p.m.

**Thursday**
Durham VA Conference 7:00 a.m. – 8:00 a.m.
Duke Raleigh Hospital Conference 7:00 a.m. – 8:00 a.m.
Chairman Walk Rounds 4:30 p.m. – 5:30 p.m.

**Friday**
Asheville VA Conference 7:30 a.m. – 8:30 a.m.
Chief Resident Conference 4:30 p.m. – 5:30 p.m.

*General Surgery Core Conferences*
Clinical residents are required to attend a minimum of 80 percent of core conferences (D&C, Grand Rounds, SCORE, SEAL). Research residents are required to attend the core conferences plus Chairman’s Rounds and Friday Chief’s Conference.

**D&C, Grand Rounds, SCORE**
Required for all research and clinical residents rotating at Duke and the Durham VA. Those on night shift the night prior are required to attend.

Exceptions: ACU, SICU residents, Thoracic SAR, JTP residents rotating on cardiac, residents rotating at Asheville

**SEAL**
Required for all residents when assigned, including DRH and Duke Raleigh.

Exceptions: Any resident who was on a night shift the night prior, ACU, SICU residents, ThoracicSAR, JTP residents rotating on cardiac, residents rotating at Asheville

**Chairman’s Rounds**
All research residents and all clinical residents (at Duke and the Durham VA) not in the operating room or engaged in urgent clinical care.

**Chief’s Conference (Friday)**
All research residents and all clinical residents (at Duke and the Durham VA) not in the operating room or engaged in urgent clinical care.
Educational Laboratories

Surgical Education and Activities Lab (SEAL)

The Surgical Education and Activities Lab (SEAL) is a state-of-the-art surgical simulation center designed to provide advanced and innovative training for physicians, residents, fellows, physician assistants, nurses, medical students, health care providers, and industry professionals in a risk-free environment. Simulation training provides learners the opportunity to develop skills and practice minimally invasive procedures without the pressures of the operating room to advance medical education and improve patient safety.

Human Fresh Tissue Laboratory

The Duke Human Fresh Tissue Laboratory is a state-of-the-art medical skills lab where residents, attending physicians, and medical students can perform advanced surgical training on fresh tissue. The lab has been used to provide training to medical professionals from Duke and throughout the country since 1997.

Duke Vivarium

A key component of the Duke Animal Care and Use Program is the Surgical Pavilion that consists of four operating rooms as well as rooms for surgical preparation, anesthetic monitoring, post-operative recovery and surgical instrument processing. This facility provides resources for teaching and research endeavors and is supplied with state-of-the-art equipment and information technology.

3D Printing Lab

The Duke 3D printing lab offers unique research and educational experiences for surgical trainees. We have many printers that can be accessed remotely from anywhere and higher end printers located just next to the Duke Medicine Pavilion. We also have state-of-the-art software and a partnership with the multi-D lab for help with segmentation, which is the process of picking out particular areas of anatomical interest for printing.
InnovateMD is an educational program within Duke MEDx designed to provide medical/surgical trainees and faculty with an educational and experience-based opportunity to collaborate with engineering students and faculty in the field of medical device innovation. The program was co-founded in early 2016 by David Ranney, MD, Resident in General Surgery, and Ken Gall, PhD, Associate Director of Duke MEDx and Chair of the Department of Mechanical Engineering and Materials Science.

InnovateMD provides opportunities via two separate pathways: (1) a competitive one-year full-immersion fellowship for clinical trainees who will learn the process of medical device development from the early stages of needs finding to commercialization and starting a business, or (2) as a centralized educational platform for trainees and faculty outside of the fellowship program to learn this process with the goal of forming a team around a specific clinical project. The mission of InnovateMD is to serve as an educational “hub” that complements the projects and initiatives of MEDx and the various clinical departments at Duke Health.
Innovate MD

Program Highlights

- Opportunities for clinical observation
- Project-based learning experience
- Didactic course participation (fellowship only)
- Seminars from faculty, entrepreneurs, and industry experts
- Networking events on and off campus
- Mentorship from medical, surgical, and engineering faculty
- Dedicated resources and workshops

Program Leadership

- David Ranney, MD; Director, InnovateMD
- Ken Gall, PhD; Associate Director, InnovateMD; Associate Director, MEDx
- Geoff Ginsburg, MD, PhD; Director, MEDx
- Donna Crenshaw, PhD; Executive Director, MEDx
- Muath Bishawi, MD; Program Coordinator
- Soni Nag, MD; Program Coordinator

Advisory Team

- Allan Kirk, MD, PhD
- Shelley Hwang, MD, MPH
- Ranjan Sudan, MD
- Nandan Lad, MD, PhD
- Joe Knight, MBA
- Suresh Balu, MBA
- Bill Walker, PhD
- Neal Simmons, PhD
- Mark Palmeri, MD, PhD
- Kathie Amato
- Salman Azhar

Ongoing Collaborations

- Duke MEDx
- Department of Surgery
- Pratt School of Engineering
- Duke Innovation & Entrepreneurship
- Duke Institute for Health Innovation
In collaboration with the Duke Ergonomics Division and with support from Department of Surgery Chair Dr. Allan Kirk, several General Surgery residents initiated a program to teach junior residents and medical students about proper positioning in the OR. The program includes an ergonomic loupe fitting initiative currently in development, ergonomics labs with residents, one-on-one observation of the chief residents, and coach training for the rising chief residents.

As part of the program, each resident is fitted with loupes that sit at a proper declination angle to minimize neck flexion. Maintaining neck flexion at less than or equal to 25 degrees can prevent spine and neck strain during long stints in the OR. Additionally, the ergonomics team suggests that residents use anti-fatigue mats and take microbreaks for stretches to reduce the risk of injury.
Duke Surgery residents are standouts in their field. Graduates consistently go on to land prestigious fellowships and highly sought-after clinical positions and academic professorships. Some focus on teaching, garnering awards for training and mentoring the next generation of surgeons. Others devote their careers to research, making significant advancements in surgical care.

The residents are typically highly productive during their time in training. Most establish themselves as bona fide authorities in a chosen field and exemplify this through significant contribution to the medical literature. This productivity indicates not only the high level of talent and ingenuity typical of the Duke Surgery resident, but also speaks to the quality of mentorship in time management, prioritization, and other skills critical to academic success delivered during the residency period. The publications of the Chief Residents in Surgery from the past two years (over 200) are presented as an example of the ongoing productivity of Duke surgical trainees.
Residents’ Lounge

In 2017, Duke Surgery opened a lounge specifically for its residents, and designed to allow residents to make the most of their experience at Duke. Featuring a lounge area, kitchen, conference rooms, and work stations, the more than 150 residents in Duke Surgery have a multi-use space to meet with colleagues and rejuvenate.
The most important metric of a residency program is the success of its trainees. This is best captured by the most prominent position in one’s career (for established surgeons) and the initial position obtained after residency (either faculty or fellowship for junior faculty). To assist applicants in understanding the breadth and height of the careers of trainees of the Department of Surgery, we provide the most prominent positions of all graduates of the program since 1970, and the initial appointments of new graduates for the past 20 years. You will note that approximately 70 percent of graduates follow academic careers, with numerous individuals rising to the level of Department Chair, Dean, and other executive leadership positions.

### Positions of Chief Residents of Surgery

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hamza Aziz</td>
<td>Cardiothoracic Surgery Fellowship, Johns Hopkins</td>
<td>Cardiothoracic Surgery Fellowship, Johns Hopkins</td>
</tr>
<tr>
<td>Brian Englum</td>
<td>Pediatric Surgery Fellowship, Cincinnati Children's Hospital</td>
<td>Pediatric Surgery Fellowship, Cincinnati Children's Hospital</td>
</tr>
<tr>
<td>Asvin Ganapathi</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Brandon Henry</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Mohan Mallipeddi</td>
<td>Minimally Invasive Surgery Fellowship, Cedars-Sinai Medical Center</td>
<td>Minimally Invasive Surgery Fellowship, Cedars-Sinai Medical Center</td>
</tr>
<tr>
<td>Matthew Schechter</td>
<td>Cardiothoracic Surgery Fellowship, Wash U. in St. Louis</td>
<td>Cardiothoracic Surgery Fellowship, Wash U. in St. Louis</td>
</tr>
<tr>
<td>Paul Speicher</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Name</td>
<td>Initial Position</td>
<td>Most Prominent Position</td>
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</tr>
<tr>
<td>Anthony Castleberry</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Kristy Rialon Guevara</td>
<td>Pediatric Surgery Fellowship, Hospital for Sick Children</td>
<td>Pediatric Surgery Fellowship, Hospital for Sick Children</td>
</tr>
<tr>
<td>Jennifer Hanna</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Georgios Kokosis</td>
<td>Plastic &amp; Reconstructive Surgery Fellowship, Johns Hopkins</td>
<td>Plastic &amp; Reconstructive Surgery Fellowship, Johns Hopkins</td>
</tr>
<tr>
<td>Michael Lidsky</td>
<td>Surgical Oncology Fellowship, Memorial Sloan Kettering Cancer Center</td>
<td>Surgical Oncology Fellowship, Memorial Sloan Kettering Cancer Center</td>
</tr>
<tr>
<td>Kevin Southerland</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
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</table>
## Positions of Chief Residents of Surgery

### 2015

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>Nicholas Andersen</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Congenital Cardiac Surgery Fellowship, Boston Children's Hospital</td>
</tr>
<tr>
<td>Michael Barfield</td>
<td>Critical Care Fellowship, Duke University Medical Center</td>
<td>Vascular Surgery Fellowship, New York University</td>
</tr>
<tr>
<td>Georgia Beasley</td>
<td>Surgical Oncology Fellowship, Ohio State Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Marcus Darrabie</td>
<td>Surgical Research Fellowship, Duke University Medical Center</td>
<td>Critical Care Fellowship, University of Florida</td>
</tr>
<tr>
<td>David Lo</td>
<td>Plastic Surgery Fellowship, Emory University Medical Center</td>
<td>Plastic Surgery Fellowship, Emory University Medical Center</td>
</tr>
<tr>
<td>Lindsay Talbot</td>
<td>Critical Care Fellowship, Nationwide Children's Hospital</td>
<td>Pediatric Surgery Fellowship, University of Chicago</td>
</tr>
<tr>
<td>Ryan Turley</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Private Practice, Vein Solutions</td>
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### 2014

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<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Andrew Barbas</td>
<td>Transplant Surgery Fellowship, University of Toronto</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Syamal Bhattacharya</td>
<td>Pediatric Surgery Fellowship, Vanderbilt University Medical Center</td>
<td>Assistant Professor of Surgery, UT College of Medicine</td>
</tr>
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</table>
### 2014

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<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>Asad Shah</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Private Practice, REX Cardiac Surgical Specialists</td>
</tr>
<tr>
<td>Robert Smith</td>
<td>Vascular Surgery Fellowship, University of Alabama</td>
<td>Clinical Assistant Professor, Scott and White Memorial Hospital Associate Program Director, Vascular Surgery Fellowship Texas A&amp;M College of Medicine</td>
</tr>
<tr>
<td>Judson Williams</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Private Practice, WakeMed Heart Center</td>
</tr>
<tr>
<td>Giorgio Zanotti</td>
<td>Cardiothoracic Surgery Fellowship, University of Colorado</td>
<td>St. Vincent's Medical Group, Heart Center of Indiana</td>
</tr>
</tbody>
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### 2013

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Kyla Bennett</td>
<td>Vascular Surgery Fellowship, Duke University</td>
<td>Assistant Professor, University of Wisconsin School of Medicine and Public Health</td>
</tr>
<tr>
<td>Nicole DeRosa</td>
<td>Surgical Oncology Fellowship, MD Anderson, TX</td>
<td>Assistant Professor of Surgery, University of Nebraska Medical Center</td>
</tr>
<tr>
<td>Dawn Elfenbein</td>
<td>Endocrine Fellowship, Madison, WI</td>
<td>Clinical Instructor, University of Wisconsin</td>
</tr>
<tr>
<td>Sarah Evans</td>
<td>Plastic Surgery Fellowship, University of Cincinnati</td>
<td>Assistant Professor of Surgery, St. Peter's Hospital</td>
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## Positions of Chief Residents of Surgery

### 2013

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<thead>
<tr>
<th>Name</th>
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<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Keri Lunsford</td>
<td>Abdominal Transplant Fellowship, UCLA Medical Center</td>
<td>Clinical Instructor, UCLA Medical Center</td>
</tr>
<tr>
<td>Vanessa Schroder</td>
<td>Critical Care Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
</tbody>
</table>

### 2012

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<tr>
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<tbody>
<tr>
<td>Melissa Danko</td>
<td>Pediatric Surgery Fellowship, Vanderbilt University</td>
<td>Assistant Professor of Surgery, Vanderbilt University</td>
</tr>
<tr>
<td>Sapan Desai</td>
<td>Vascular Surgery Fellowship, UT Houston</td>
<td>Assistant Professor of Surgery, Southern Illinois University; Director of the Quality Alliance and Predictive Analysis, Memorial Medical Center; Chief Executive Officer, Surgisphere Corporation</td>
</tr>
<tr>
<td>Loretta Erhunmwunsee</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, City of Hope Cancer Center</td>
</tr>
<tr>
<td>Sean Lee</td>
<td>Minimally Invasive Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Medical College of Georgia</td>
</tr>
<tr>
<td>James Padussis</td>
<td>Minimally Invasive Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, University of Nebraska Medical Center</td>
</tr>
<tr>
<td>Elisabeth Tomlinson-Tracy</td>
<td>Pediatric Surgery Fellowship, Boston Children's Hospital</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Nestor Villamizar</td>
<td>Thoracic Surgery Fellowship, Brigham &amp; Women's Hospital</td>
<td>Assistant Professor of Surgery, University of Miami Hospital</td>
</tr>
</tbody>
</table>
## 2011

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mani Daneshmand</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Diana Diesen</td>
<td>Pediatric Surgery Fellowship, UT Southwestern</td>
<td>Assistant Professor of Surgery, UT Southwestern Medical Center</td>
</tr>
<tr>
<td>John Haney</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Kelley Hutcheson</td>
<td>Cardiothoracic Surgery Fellowship, Washington University</td>
<td>Assistant Professor of Surgery, Baylor University Medical Center</td>
</tr>
<tr>
<td>Luigi Pascarella</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, University of Iowa</td>
</tr>
<tr>
<td>Immanuel Turner</td>
<td>Cardiothoracic Surgery Fellowship, University of Michigan</td>
<td>Assistant Professor of Surgery, Carolinas Medical Center</td>
</tr>
<tr>
<td>Brian Untch</td>
<td>Surgical Oncology Fellowship, Memorial Sloan-Kettering Cancer Center</td>
<td>Assistant Professor of Surgery, Memorial Sloan-Kettering Cancer Center</td>
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## 2010

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
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<tbody>
<tr>
<td>Keki Balsara</td>
<td>Critical Care Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Washington University School of Medicine in St. Louis</td>
</tr>
<tr>
<td>Errol Bush</td>
<td>Cardiothoracic Surgery Fellowship, UCSF</td>
<td>Assistant Professor of Surgery, UCSF</td>
</tr>
<tr>
<td>Eugene Ceppa</td>
<td>Minimally Invasive Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Indiana University</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery

### 2010

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sebastian de la Fuente</td>
<td>Surgical Oncology Fellowship, Moffitt Cancer Center</td>
<td>Physician Research Coordinator and Director of Research of the General Surgery Residency Program, Florida Hospital, Orlando; Assistant Professor of Surgery, University of Central Florida and Florida State University</td>
</tr>
<tr>
<td>Jeffrey Nienaber</td>
<td>Vascular Surgery Fellowship, Mayo Clinic (Rochester)</td>
<td>Attending Surgeon, Asheville VA Medical Center</td>
</tr>
<tr>
<td>Srinevas Reddy</td>
<td>Surgical Oncology Fellowship, University of Pittsburgh</td>
<td>Assistant Professor of Surgery, University of Maryland</td>
</tr>
<tr>
<td>Tamarah Westmoreland</td>
<td>Pediatric Surgical Oncology Fellowship, St. Jude Hospital (Memphis)</td>
<td>Assistant Professor of Surgery, Nemours Children’s Hospital, FL</td>
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### 2009

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Brian Lima</td>
<td>Cardiothoracic Surgery Fellowship, Cleveland Clinic</td>
<td>Assistant Professor of Surgery, Baylor University Medical Center</td>
</tr>
<tr>
<td>Vanessa Olcese</td>
<td>Abdominal Transplant Fellowship, University of Wisconsin</td>
<td>Assistant Professor of Surgery, Ohio State University</td>
</tr>
<tr>
<td>Mayur Patel</td>
<td>Surgical Critical Care and Acute Care Surgery Fellow, Vanderbilt Medical Center</td>
<td>Assistant Professor of Surgery; Assistant Professor of Neurological Surgery, Vanderbilt University</td>
</tr>
<tr>
<td>Rebecca Prince-Petersen</td>
<td>Minimally Invasive Surgery Fellowship, University of Washington, Seattle</td>
<td>Assistant Professor of Surgery, University of Washington</td>
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## 2009

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Keshava Rajagopal</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Assistant Professor of Surgery,</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td>University of Maryland</td>
</tr>
<tr>
<td>Jacob Schroder</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Assistant Professor of Surgery,</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td>Duke University Medical Center</td>
</tr>
<tr>
<td>Jin Yoo</td>
<td>MIS/Bariatric Fellowship, Duke University Medical</td>
<td>Assistant Professor of Surgery,</td>
</tr>
<tr>
<td></td>
<td>Center</td>
<td>Duke University Medical Center</td>
</tr>
<tr>
<td>David Sindram</td>
<td>HPB Surgery Fellowship, Carolinas Medical Center</td>
<td>Faculty, Carolinas Medical Center</td>
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## 2008

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>James Appel</td>
<td>Plastic Surgery Fellowship, Vanderbilt Medical Center</td>
<td>Private Practice, Calabretta Cosmetic Surgery, Charlotte, NC</td>
</tr>
<tr>
<td>Matthew Hartwig</td>
<td>Cardiothoracic Fellowship, Duke University Medical</td>
<td>Assistant Professor of Surgery,</td>
</tr>
<tr>
<td></td>
<td>Center</td>
<td>Duke University Medical Center</td>
</tr>
<tr>
<td>Erich Huang</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
<td>Adjunct Assistant Professor, Duke University, Director of Cancer Research, Sage Bionetworks, Seattle, WA</td>
</tr>
<tr>
<td>Anthony Lemaire</td>
<td>Cardiothoracic Fellowship, Duke University Medical</td>
<td>Assistant Professor of Surgery,</td>
</tr>
<tr>
<td></td>
<td>Center</td>
<td>Robert Wood Johnson University Hospital</td>
</tr>
<tr>
<td>Mimi Pham</td>
<td>Cardiothoracic Fellowship, Duke University Medical</td>
<td>Assistant Professor of Surgery,</td>
</tr>
<tr>
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<td>Indiana University</td>
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### Positions of Chief Residents of Surgery

**2008**

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Jose Trani</td>
<td>Vascular Surgery Fellowship, University of North Carolina at Chapel Hill</td>
<td>Assistant Professor of Surgery, Cooper University Health System, Philadelphia, PA/Camden, NJ</td>
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**2007**

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Jennifer H. Aldrink</td>
<td>Pediatric Surgery Fellowship, Columbus Children's Hospital</td>
<td>Assistant Professor of Surgery, Nationwide Children's Hospital, Columbus, OH</td>
</tr>
<tr>
<td>Edward Cantu</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, University of Pennsylvania</td>
</tr>
<tr>
<td>Denise Ching</td>
<td>Surgical Oncology Fellowship, MD Anderson Cancer Center</td>
<td>Palo Alto Medical Foundation/Sutter Medical Network</td>
</tr>
<tr>
<td>Steve Hanish</td>
<td>Abdominal Transplant Fellowship, University of Wisconsin</td>
<td>Associate Professor of Surgery, University of Maryland Medical Center</td>
</tr>
<tr>
<td>Jonathan Hata</td>
<td>MIS Fellowship, Duke University Medical Center</td>
<td>Private Practice, Hickory Surgical Clinic, NC</td>
</tr>
<tr>
<td>Melissa Poh</td>
<td>Plastic Surgery Fellowship, Vanderbilt Medical Center</td>
<td>Private Practice, Los Angeles, CA</td>
</tr>
<tr>
<td>Joseph Turek</td>
<td>Cardiotoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor, Cardiotoracic Surgery, University of Iowa</td>
</tr>
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</table>
### 2006

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Kelli Brooks</td>
<td>Trauma/Critical Care Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Elizabeth Grubbs</td>
<td>Surgical Oncology Fellowship, MD And Anderson Cancer Center</td>
<td>Assistant Professor of Surgery, MD Anderson Cancer Center</td>
</tr>
<tr>
<td>Aftab Kherani</td>
<td>Consultant, McKinsey &amp; Company, New York</td>
<td>Principal of Aisling Capital Group</td>
</tr>
<tr>
<td>Jason Petrofski</td>
<td>Colorectal Fellowship, Cleveland Clinic</td>
<td>Private Practice, Atlanta Colon and Rectal Surgery</td>
</tr>
<tr>
<td>Shiva Sarraf-Yazdi</td>
<td>Instructor and Clinical Fellow, Duke-National University of Singapore</td>
<td>Assistant Dean of Recruitment and Admissions, Assistant Professor, Duke NUS</td>
</tr>
<tr>
<td>Richard Thompson</td>
<td>Cardiothoracic Surgery Fellowship, UVA, Charlottesville, VA</td>
<td>Faculty, Bryan Health, NE</td>
</tr>
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### 2005

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Jeffrey Gaca</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Matthew Kalady</td>
<td>Colorectal Fellowship, Cleveland Clinic</td>
<td>Assistant Professor of Surgery, Cleveland Clinic, among other appointments</td>
</tr>
<tr>
<td>Jamie Nathan</td>
<td>Pediatric Surgery Fellowship, Cincinnati Children's Hospital</td>
<td>Assistant Professor of Surgery, Director of Intestinal Transplantation Program, University of Cincinnati</td>
</tr>
</tbody>
</table>
Positions of Chief Residents of Surgery

2005

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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</thead>
<tbody>
<tr>
<td>Shawn Safford</td>
<td>United States Navy</td>
<td>Assistant Professor of Surgery, Penn State, Milton S. Hershey Medical Center</td>
</tr>
<tr>
<td>John Scarborough</td>
<td>Abdominal Transplant Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, University of Wisconsin School of Medicine and Public Health</td>
</tr>
<tr>
<td>Rebekah White</td>
<td>Surgical Oncology Fellowship, Memorial Sloan-Kettering Cancer Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
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2004

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
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<tbody>
<tr>
<td>Rolf Barth</td>
<td>Abdominal Transplant Fellowship, University of Wisconsin</td>
<td>Associate Professor of Surgery, University of Maryland Medical Center</td>
</tr>
<tr>
<td>Patrick Domkowski</td>
<td>Private practice, Palm Bay, FL</td>
<td>Private Practice, Sebastian River Medical Center, Sebastian, FL</td>
</tr>
<tr>
<td>Sitaram Emani</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Children's Hospital Boston</td>
</tr>
<tr>
<td>Jay Lee</td>
<td>Cardiothoracic Fellowship, Brigham &amp; Women's Hospital</td>
<td>Associate Professor of Surgery, Chief of Thoracic Surgery, UCLA Medical Center</td>
</tr>
<tr>
<td>Mark Onaitis</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Gretchen Purcell</td>
<td>Pediatric Surgery Fellowship, Children's Hospital of Pittsburgh</td>
<td>Assistant Professor of Surgery, Vanderbilt University</td>
</tr>
<tr>
<td>Christopher Touloukian</td>
<td>Assistant Professor of Surgery, Indiana University</td>
<td>Associate Professor of Surgery, Indiana University</td>
</tr>
<tr>
<td>Name</td>
<td>Initial Position</td>
<td>Most Prominent Position</td>
</tr>
<tr>
<td>-----------------------</td>
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<td>--------------------------------------------------------------</td>
</tr>
<tr>
<td>Thomas Aloia</td>
<td>Surgical Oncology Fellowship, MD Anderson Cancer Center</td>
<td>Associate Professor of Surgery, MD Anderson</td>
</tr>
<tr>
<td>Shankha Biswas</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private Practice, Partner, Synergy CT Surgery Partnership, Riverside, CA</td>
</tr>
<tr>
<td>G. Gonzalez-Stawinski</td>
<td>Cardiothoracic Fellowship, Cleveland Clinic</td>
<td>Chief of Heart Transplantation and MCS, Baylor University Medical Center-Dallas</td>
</tr>
<tr>
<td>G. Robert Stephenson</td>
<td>Abdominal Transplant Fellowship, University of Pennsylvania</td>
<td>Private Practice, Texas Health Care PLLC, Ft. Worth, TX</td>
</tr>
<tr>
<td>David White</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
</tr>
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<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>B. Zane Atkins</td>
<td>United States Air Force/ Cardiothoracic Fellowship Duke University</td>
<td>Clinical Assistant Professor of Surgery, UC Davis Medical Center; Chief of CT Surgery, USAF David Grant Medical Center</td>
</tr>
<tr>
<td>G. Chad Hughes</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery and Director, Aortic Surgery Program, Duke University Medical Center</td>
</tr>
<tr>
<td>Christine Lau</td>
<td>Cardiothoracic Fellowship, Washington University</td>
<td>Associate Professor of Surgery and Director Lung Transplant Program, University of Virginia</td>
</tr>
<tr>
<td>Kendra Merine</td>
<td>Vascular Surgery Fellowship, Washington Hospital Center</td>
<td>Private practice, Miramar, FL</td>
</tr>
</tbody>
</table>
Positions of Chief Residents of Surgery

2002

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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<tbody>
<tr>
<td>Paul Mosca</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center; Vice Chair, General Surgery Network</td>
</tr>
<tr>
<td>Aurora Pryor</td>
<td>MIS Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery and Vice Chair for Clinical Affairs, Chief General Surgery Division, Director Bariatric and Metabolic Weight Loss Center, Stony Brook School of Medicine</td>
</tr>
<tr>
<td>Ashish Shah</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Surgical Director of Heart and Lung Transplant, and Associate Director of Cardiac Surgery, The Johns Hopkins Hospital</td>
</tr>
</tbody>
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2001

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>William Burfeind</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Chief of Thoracic Surgery, St. Luke’s Health Network</td>
</tr>
<tr>
<td>Paul Chai</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Clinical Surgery, Columbia University Medical Center</td>
</tr>
<tr>
<td>Lisa Clark Picket</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Assistant Professor of Medicine and Chief Medical Officer, Duke University Medical Center</td>
</tr>
<tr>
<td>Pierre Dematos</td>
<td>Private practice, Asheville, NC</td>
<td>Private practice, Regional Surgical Specialists, Asheville, NC</td>
</tr>
</tbody>
</table>
### 2001

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Thomas Hayward</td>
<td>Trauma/Critical Care Fellowship, Maryland Shock Trauma</td>
<td>Assistant Professor of Surgery, Indiana University</td>
</tr>
<tr>
<td>Shu Lin</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Associate Professor in Pathology and Assistant Professor in Immunology, Duke University Medical Center</td>
</tr>
<tr>
<td>John Maurice</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private practice, Newport Beach, CA</td>
</tr>
<tr>
<td>Kirsten Wilkins</td>
<td>Colorectal Fellowship, UMDNJ–Robert Wood Johnson Hospital</td>
<td>Private practice, New Jersey</td>
</tr>
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### 2000

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Shabab Akhter</td>
<td>Cardiothoracic Fellowship, University of Michigan</td>
<td>Professor of Surgery and Chairman Division of Cardiothoracic Surgery, University of Wisconsin</td>
</tr>
<tr>
<td>Larkin Daniels</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private practice, Cardio-Thoracic and Vascular Surgical Associates, Mobile, AB</td>
</tr>
<tr>
<td>Kimberly Gandy</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Adjunct Associate Professor, Biomedical and Health Informatics, UMKC; Associate Clinical Professor, Pediatrics, Medical College of Wisconsin; Founder and CEO, Play-it Health; CMO, Infusion Express</td>
</tr>
<tr>
<td>Cleveland Lewis Jr.</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private practice, Hudson Valley Thoracic Associates, NY</td>
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</table>
## Positions of Chief Residents of Surgery

### 2000

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>Andrew Lodge</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery and Associate Professor of Pediatrics, Duke University Medical Center</td>
</tr>
<tr>
<td>Alan Kypson</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, East Carolina University Brody School of Medicine</td>
</tr>
<tr>
<td>Robert Noone</td>
<td>Colorectal Fellowship, Cleveland Clinic</td>
<td>Private practice, Main Line Health, Wynnewood PA</td>
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### 1999

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>R. Eric Lilly</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Medical College of Wisconsin</td>
</tr>
<tr>
<td>James St. Louis</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Co-Director, Division of Pediatric Cardiology; Associate Professor, Division of Cardiothoracic Surgery; Aldo Castaneda Professorship in Congenital Heart Surgery, University of Minnesota</td>
</tr>
<tr>
<td>Christopher Suhr</td>
<td>Private practice, Aiken, SC</td>
<td>Private practice, Onslow Surgical Clinic, Jacksonville, NC</td>
</tr>
<tr>
<td>Bryan Weidner</td>
<td>Surgical Critical Care Fellowship, Duke University Medical Center</td>
<td>Chief of Pediatric Surgery and Surgeon-in-Chief, Children's Hospital at Sacred Heart, Pensacola, FL</td>
</tr>
<tr>
<td>Jeffrey H. Lawson</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery, Professor in Pathology, and Program Director for Surgery Research, Duke University Medical Center</td>
</tr>
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### 1999

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Charles Hoopes</td>
<td>Cardiothoracic Fellowship, University of Michigan</td>
<td>Associate Professor of Surgery, Jason Alexander Gill Professor in Thoracic Surgery, Section Chief Cardiopulmonary Transplant, Director Heart Mechanical Circulator Support, and Director Comprehensive Transplant Institute, University of Kentucky College of Medicine</td>
</tr>
</tbody>
</table>

### 1998

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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</tr>
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<tbody>
<tr>
<td>Scott C. Silvestry</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Division of CT Surgery, Washington University, St. Louis, MO</td>
</tr>
<tr>
<td>R. Anthony Perez-Tamayo</td>
<td>Surgical Critical Care Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Associate Program Director, Rush University; Senior Attending, Stroger Hospital of Cook County (former Chief of CT 2006–2012); Associate Professor of Surgery, Loyola University, Chicago, IL</td>
</tr>
<tr>
<td>Adrian H. Cotterell</td>
<td>Transplantation Surgery Fellowship, University of Miami/Jackson Memorial Hospital</td>
<td>Associate Professor of Surgery, Division of Transplant Surgery, Virginia Commonwealth University Health System</td>
</tr>
<tr>
<td>Louis DiBernardo</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Pathology, Duke University Medical Center</td>
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## Positions of Chief Residents of Surgery

### 1998

<table>
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<tr>
<th>Name</th>
<th>Initial Position</th>
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<tbody>
<tr>
<td>Paul Kirshbom</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Professor of Surgery and Chief Pediatric Cardiac Surgery, Yale School of Medicine</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Christopher Mantyh</td>
<td>Colorectal Surgery Fellowship, Cleveland Clinic</td>
<td>Professor of Surgery and Chief of Gastrointestinal and Colorectal Surgery, Duke</td>
</tr>
<tr>
<td></td>
<td>Foundation</td>
<td>University Medical Center</td>
</tr>
<tr>
<td>Bryan Clary</td>
<td>Surgical Oncology Fellowship, Memorial Sloan</td>
<td>Professor and Chair of the Department of Surgery, M.J. Orlow Family Endowed Chair</td>
</tr>
<tr>
<td></td>
<td>Sloan Kettering Cancer Center</td>
<td>in Surgery, Surgeon-in-Chief, UC San Diego Health System</td>
</tr>
</tbody>
</table>

### 1997

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carmelo Milano</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Professor of Surgery and Surgical Director of Cardiac Transplant and LVAD Programs, Duke</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td>University Medical Center</td>
</tr>
<tr>
<td>Scott H. Pruitt</td>
<td>Assistant Professor of Surgery, Duke University</td>
<td>Senior Principal Scientist, Merck Research Labs</td>
</tr>
<tr>
<td>Lynne Skaryak</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Attending Surgeon, Medstar Georgetown University Hospital, Baltimore, MD</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Harmuth Bittner</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Director of Heart and Lung Transplantation, Florida Hospital, Orlando, FL</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
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### 1997

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bradley H. Collins</td>
<td>Transplant Surgery Fellowship, University of Wisconsin Hospital and Clinics</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Mark Davies</td>
<td>Vascular Surgery Fellowship, University of Washington</td>
<td>Professor of Surgery, Vice Chairman of Cardiovascular Surgery, The Methodist Hospital; Associate Quality Officer, The Methodist Hospital System, Houston, TX</td>
</tr>
<tr>
<td>Joseph M. Forbess</td>
<td>Cardiotoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery and Chairman of the Division of Pediatric Cardiotoracic Surgery, UT Southwestern Medical Center; Co-Director of the Heart Center, Children's Medical Center Dallas; Pogue Distinguished Chair in Pediatric Cardiac Surgery Research</td>
</tr>
</tbody>
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### 1996

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cary H. Meyer</td>
<td>Cardiotoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Private practice, Cardiovascular Associates, Kingsport, TN</td>
</tr>
<tr>
<td>Clarence H. Owen</td>
<td>Cardiotoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Private practice, Triad Cardiac and Thoracic Surgery, Greensboro, NC</td>
</tr>
<tr>
<td>Jeffrey C. Pence</td>
<td>Cardiotoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery and Associate Residency Program Director, Childrens Medical Center of Dayton, OH</td>
</tr>
</tbody>
</table>
# Positions of Chief Residents of Surgery

## 1996

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christina Weltz</td>
<td>Assistant Professor of Surgery, Mt. Sinai School of Medicine, NY</td>
<td></td>
</tr>
<tr>
<td>Mark Tedder</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Attending, St. Thomas Health, Nashville TN; Private practice, Cardiovascular Associates, Nashville, TN</td>
</tr>
<tr>
<td>Mark Anstadt</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Private practice, Miami Valley Heart &amp; Lung Surgeons; Holds voluntary faculty positions at Boonshoft School of Medicine, Wright State, OH; Formerly Professor of Surgery, Associate Professor of Pharmacology and Toxicology, Chair of CT Surgery, and Vice Chair of Department of Surgery</td>
</tr>
<tr>
<td>Ravi Chari</td>
<td>Hepatobiliary and Abdominal Transplant Fellowship, University of Toronto</td>
<td>Vice President of Clinical Excellence, Clinical Services Group, Hospital Corporation of America (HCA)</td>
</tr>
<tr>
<td>Michael Demaio</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery, Director of the Lung/Heart-Lung Transplant Program, and Director of Research, Department of CT Surgery, UT Southwestern Medical Center; Founder, Spectral MD</td>
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## 1995

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>James R. Mault</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Vice President and CMO of Qualcomm Life</td>
</tr>
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</table>
### 1995

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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<tbody>
<tr>
<td>David S. Peterseim</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Private practice, Charleston, SC</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>William N. Pugh</td>
<td>Private practice</td>
<td>Private practice, American Fork Surgical Associates, American Fork, UT</td>
</tr>
<tr>
<td>Cemil M. Purut</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Private practice, Hickory Heart Lung and Vascular, NC</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Paul M. Aheanne</td>
<td>Surgical Oncology Fellowship, MD Anderson</td>
<td>Private practice, Regional Surgical Specialists, Asheville, NC</td>
</tr>
<tr>
<td>Francis Duhaylongsod</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>VP and Chief Medical Director, Edwards Lifesciences</td>
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<tr>
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<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Allan D. Kirk</td>
<td>Multi-Organ Transplant Fellowship, University of</td>
<td>Chair of Surgery and Surgeon-in-Chief, Duke University Medical Center</td>
</tr>
<tr>
<td></td>
<td>Wisconsin</td>
<td></td>
</tr>
<tr>
<td>Theodore Koutlas</td>
<td>Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery, Pediatric Cards, ECU</td>
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### 1994

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<tr>
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<tbody>
<tr>
<td>Thomas A. D'Amico</td>
<td>Professor of Surgery; Chief, Section of General Thoracic Surgery; Vice Chair of Surgery; and Chief Medical Officer of Duke Cancer Institute, Duke University Medical Center</td>
</tr>
<tr>
<td>Andrew Davidoff</td>
<td>Chair of Surgery, St. Jude's Children Research Hospital, Memphis, TN</td>
</tr>
<tr>
<td>Stanley A. Gall Jr.</td>
<td>Prairie Thoracic and Cardiovascular Surgeons, Prairie Heart Institute, Springfield Illinois</td>
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# Positions of Chief Residents of Surgery

## 1994

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Jeffrey S. Heinle</td>
<td>Pediatric Cardiovascular Surgery, Cook Children's Medical Center, Fort Worth, TX</td>
</tr>
<tr>
<td>Scott H. Johnson</td>
<td>Assistant Professor, Department of Surgery, Washington University School of Medicine</td>
</tr>
<tr>
<td>Kevin P. Landolfo</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Lewis B. Schwartz</td>
<td>Assistant Professor, Section of Vascular Surgery, University of Chicago</td>
</tr>
<tr>
<td>Mark W. Sebastian</td>
<td>Assistant Professor, Department of Surgery, Duke University Medical Center</td>
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## 1993

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Gene D. Branum</td>
<td>Assistant Professor, Department of Surgery, Emory University Hospital</td>
</tr>
<tr>
<td>Nancy J. Crowley</td>
<td>Tolnitch Surgical Associates, Raleigh, NC</td>
</tr>
<tr>
<td>Joseph R. Elbeery</td>
<td>Assistant Professor of Surgery, Division of Cardiovascular Surgery, East Carolina</td>
</tr>
<tr>
<td>J. Scott Kabas</td>
<td>AnMed Health Heart and Vascular Center, Anderson, SC</td>
</tr>
<tr>
<td>Theodore C. Koutlas</td>
<td>Assistant Professor, Division of Cardiovascular Surgery, East Carolina University School of Medicine</td>
</tr>
<tr>
<td>John C. Lucke</td>
<td>Assistant Consulting Professor, Duke University Medical Center</td>
</tr>
<tr>
<td>Mark D. Plunkett</td>
<td>Fellow in Congenital Cardiac Surgery, Division of Cardiothoracic Surgery, UCLA Medical Center</td>
</tr>
<tr>
<td>Phillip D. Shadduck</td>
<td>Clinical Assistant Professor of Surgery, Duke University Medical Center</td>
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### 1992

<table>
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<tbody>
<tr>
<td>R. Duane Davis Jr.</td>
<td>Professor of Surgery, Director Transplant Services, Department of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Gregory P. Fontana</td>
<td>Assistant Clinical Professor, Department of Thoracic and Cardiovascular Surgery, UCLA School of Medicine</td>
</tr>
<tr>
<td>Robert C. Harland</td>
<td>Chief of Surgical Immunology and Transplantation, Brody School of Medicine</td>
</tr>
<tr>
<td>David H. Harpole Jr.</td>
<td>Professor of Surgery, Associate Professor in Pathology, Vice Chief Division of Surgical Sciences, Duke University Medical Center</td>
</tr>
<tr>
<td>Douglas A. Tyler</td>
<td>Chairman of Surgery, University of Texas Medical Branch</td>
</tr>
<tr>
<td>Ronald J. Weigel</td>
<td>Assistant Professor of Surgery, Stanford University Medical Center</td>
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### 1991

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<tbody>
<tr>
<td>Louis A. Brunsting</td>
<td>Associate Professor, University of Alabama at Birmingham</td>
</tr>
<tr>
<td>Robin G. Cummings</td>
<td>Medicaid Director, NC Dept. of Health &amp; Human Services</td>
</tr>
<tr>
<td>James W. Gaynor</td>
<td>Associate Professor of Surgery, Perelman School of Medicine, University of Pennsylvania</td>
</tr>
<tr>
<td>Robert L. Quigley</td>
<td>Regional Medical Director and Senior Vice President of Medical Assistance, Americas at International SOS</td>
</tr>
<tr>
<td>Michael A. Skinner</td>
<td>Professor of Surgery, Washington State University</td>
</tr>
<tr>
<td>Craig L. Slinghuff</td>
<td>Professor of Surgery, University of Virginia School of Medicine</td>
</tr>
<tr>
<td>Christopher R. Watters</td>
<td>Clinical Associate, Department of Surgery, Duke University Medical Center</td>
</tr>
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## Positions of Chief Residents of Surgery

### 1990

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Thomas D. Christopher</td>
<td>Cardiothoracic Surgical Associates, Richmond, VA</td>
</tr>
<tr>
<td>Michael E. Jessen</td>
<td>Professor and Chairman of the Department of Cardiovascular and Thoracic Surgery, UT Southwestern Medical Center</td>
</tr>
<tr>
<td>James J. Morris</td>
<td>Associate Professor of Surgery, University of North Carolina School of Medicine</td>
</tr>
<tr>
<td>Charles E. Murphy</td>
<td>Assistant Professor of Surgery, Director Cardiothoracic ICU and Stepdown Units, Duke University Medical Center</td>
</tr>
<tr>
<td>John A. Spratt</td>
<td>Cardiothoracic Surgery of Charleston, Charleston, SC</td>
</tr>
<tr>
<td>Bert A. Bowers</td>
<td>Sarasota Memorial Hospital, Sarasota, FL</td>
</tr>
<tr>
<td>H. Kim Lyerly</td>
<td>Professor of Surgery, Assistant Professor in Immunology and Associate Professor of Pathology, Duke University Medical Center</td>
</tr>
<tr>
<td>Raymond G. Makhoul</td>
<td>Surgical Associates of Richmond, Richmond, VA</td>
</tr>
<tr>
<td>George W. Maier</td>
<td>Carolina Cardiovascular &amp; Thoracic Surgery Associates, Gastonia, NC</td>
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### 1989

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<tbody>
<tr>
<td>Ralph H. Damiano Jr.</td>
<td>Professor of Surgery and Chief Division of Cardiothoracic Surgery, Washington University School of Medicine</td>
</tr>
<tr>
<td>James M. Douglas Jr.</td>
<td>Peacehealth Medical Group, Bellingham, WA</td>
</tr>
<tr>
<td>Donald D. Glower Jr.</td>
<td>Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Richard J. Peterson</td>
<td>Riverview Cardiac Surgery, FL</td>
</tr>
<tr>
<td>Stuart J. Knechtle</td>
<td>Distinguished Professor of Surgery, Duke University and Executive Director of the Duke Transplant Center</td>
</tr>
<tr>
<td>Year</td>
<td>Name</td>
</tr>
<tr>
<td>------</td>
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</tr>
<tr>
<td>1989</td>
<td>S. Chace Lottich</td>
</tr>
<tr>
<td></td>
<td>David H. Mahvi</td>
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<td></td>
<td>Francis S. Rotolo</td>
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1988

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<tr>
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<tbody>
<tr>
<td>T. Bruce Ferguson</td>
<td>East Carolina Heart Institute at ECU, Brody School of Medicine</td>
</tr>
<tr>
<td>Richard D. Floyd IV</td>
<td>St. Joseph Hospital, Lexington, KY</td>
</tr>
<tr>
<td>George S. Tyson Jr.</td>
<td>Thoracic Surgeon, St. Petersburg, FL</td>
</tr>
<tr>
<td>John F. Lucas III</td>
<td>Lucas Surgical Group, Greenwood, MS</td>
</tr>
<tr>
<td>Walter B. Vernon</td>
<td>SurgOne, P.C., Englewood, CO</td>
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1987

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>William L. Holman</td>
<td>Professor of Surgery, University of Alabama at Birmingham; Chief Surgical Services, Birmingham VA Medical Center</td>
</tr>
<tr>
<td>Robert B. Peyton</td>
<td>Clinical Associate Professor of Surgery, University of North Carolina School of Medicine</td>
</tr>
<tr>
<td>Peter K. Smith</td>
<td>Professor of Surgery and Division Chief, Cardiovascular and Thoracic Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Ross M. Ungerleider</td>
<td>Professor of Surgery, Wake Forest Baptist Health</td>
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# Positions of Chief Residents of Surgery

## 1987

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<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Warren J. Kortz</td>
<td>Private practice, Denver, CO</td>
</tr>
<tr>
<td>Douglas S. Reintgen</td>
<td>Professor of Surgery, Director of Cancer Initiatives, University of South Florida</td>
</tr>
<tr>
<td>Laurence H. Ross</td>
<td>Finney Trimble Surgical Associates at Greater Baltimore Medical Center</td>
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## 1986

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Gary K. Lofland</td>
<td>Children’s Mercy Hospitals and Clinic, Kansas City, MO</td>
</tr>
<tr>
<td>J. Mark Williams</td>
<td>Chairman, Department of Cardiovascular Sciences, East Carolina Heart Institute at ECU</td>
</tr>
<tr>
<td>Craig O. Olsen</td>
<td>Cardiovascular &amp; Chest Surgical Associates, Boise, ID</td>
</tr>
<tr>
<td>Peter Van Trigt III</td>
<td>Triad Cardiac &amp; Thoracic Surgeons, Greensboro, NC</td>
</tr>
<tr>
<td>Stephen K. Rerych</td>
<td>Pleasant Valley Hospital, Point Pleasant, WV</td>
</tr>
<tr>
<td>Thomas L. Novick</td>
<td>Southeast Surgical Specialists, Charlotte, NC</td>
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## 1984

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<tbody>
<tr>
<td>Robert L.R. Wesly</td>
<td>North Florida Regional Med Ctr, Gainesville, FL</td>
</tr>
<tr>
<td>L. George Alexander</td>
<td>Locums Physician, Catawba Piedmont Cardiovascular and Thoracic Surgery, Rock Hill, SC</td>
</tr>
<tr>
<td>Walter R. Chitwood Jr.</td>
<td>Director, East Carolina Heart Institute; Senior Associate Vice Chancellor for Health Sciences, Brody School of Medicine</td>
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### 1984

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>Richard A. Hopkins</td>
<td>Endowed Chair in Pediatric Surgery Research and Director, Cardiac Regenerative Surgery Research Laboratories, Children's Mercy Kansas City</td>
</tr>
<tr>
<td>J. Dirk Iglehart</td>
<td>Director, Susan F. Smith Center for Women's Cancers, Dana-Farber Cancer Institute</td>
</tr>
<tr>
<td>Erle H. Austin III</td>
<td>Professor of Surgery, University of Louisville School of Medicine</td>
</tr>
<tr>
<td>James D. Sink</td>
<td>Professor of Surgery, Allegheny University of the Health Sciences, Philadelphia, PA</td>
</tr>
<tr>
<td>Ronald C. Hill</td>
<td>VA Medical Hospital, Asheville, NC</td>
</tr>
<tr>
<td>Robert N. Jones</td>
<td>MidMichigan Physicians Group, Midland, MI</td>
</tr>
<tr>
<td>Peter M. Thurlow</td>
<td>Associated Physicians, Madison, WI</td>
</tr>
<tr>
<td>Bruce D. Schirmer</td>
<td>Professor of Surgery and Vice Chair, Department of Surgery, University of Virginia School of Medicine</td>
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### 1983

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Lary A. Robinson</td>
<td>Director, Division of Cardiovascular and Thoracic Surgery, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL</td>
</tr>
<tr>
<td>Peter Scholz</td>
<td>Professor of Surgery, Robert Wood Johnson Medical School</td>
</tr>
<tr>
<td>Jon F. Moran</td>
<td>ECU Physician, Thoracic Surgery, Brody School of Medicine</td>
</tr>
<tr>
<td>Thomas L. Spray</td>
<td>Chief, Division of Cardiothoracic Surgery, Endowed Chair in Pediatric Cardiothoracic Surgery, The Children's Hospital of Philadelphia</td>
</tr>
<tr>
<td>Charles E. Cox</td>
<td>CEO, Breast Health CRISP (Clinical and Research Integrated Strategic Program); McCann Foundation Endowed Professor of Breast Surgery, USF Health, Tampa, FL</td>
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## Positions of Chief Residents of Surgery

### 1983

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Richard L. McCann</td>
<td>Professor of Surgery, Duke University Medical Center; Assistant Chief of Surgery, Veterans Administration Medical Center</td>
</tr>
<tr>
<td>William C. Meyers</td>
<td>Founder, Vincera Institute, Philadelphia, PA</td>
</tr>
<tr>
<td>Arthur J. Ross III</td>
<td>Dean, West Virginia University School of Medicine</td>
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### 1980

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>John C. Alexander</td>
<td>Professor of Clinical Surgery, University of Chicago</td>
</tr>
<tr>
<td>Stephen A. Mills</td>
<td>Associate Professor of Surgery, University of North Carolina School of Medicine</td>
</tr>
<tr>
<td>Norman A. Silverman</td>
<td>Henry Ford Health System, Detroit, MI</td>
</tr>
<tr>
<td>R. Randal Bollinger</td>
<td>Professor of Surgery, Duke University Medical Center (Retired)</td>
</tr>
<tr>
<td>R. Morton Bolman</td>
<td>Professor of Surgery, Harvard Medical School</td>
</tr>
<tr>
<td>George A. Parker</td>
<td>Commonwealth Surgeons, Richmond, VA</td>
</tr>
<tr>
<td>James E. Lowe</td>
<td>Professor of Surgery and Professor of Pathology, Duke University Medical Center</td>
</tr>
<tr>
<td>W. Robins Howe</td>
<td>Founder, Director Cardiac Surgery Program, Western Baptist Hospital, Paducah, KY; Clinical Faculty, University of Louisville &amp; University of Kentucky</td>
</tr>
<tr>
<td>J. Scott Rankin</td>
<td>Associate Clinical Professor, Vanderbilt University Medical Center</td>
</tr>
<tr>
<td>Walter D. Holder Jr.</td>
<td>Polyclinic, Seattle, WA</td>
</tr>
<tr>
<td>Richard M. Larson</td>
<td>Clinical Associate Professor, East Carolina University</td>
</tr>
<tr>
<td>Charles H. Edwards II</td>
<td>Hawthorne Cardiovascular Surgeons, Charlotte, NC</td>
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1980

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>W. Peter Graper</td>
<td>Sarasota Cardiovascular-Thoracic, Sarasota, FL</td>
</tr>
<tr>
<td>Thomas H. Marsicano</td>
<td>Cardiac surgeon, Savannah, GA</td>
</tr>
<tr>
<td>John B. Hanks</td>
<td>Professor of Surgery, University of Virginia School of Medicine</td>
</tr>
<tr>
<td>Jeffrey A. Norton</td>
<td>Professor of Surgery and Chief of Oncologic and General Surgery, Stanford University</td>
</tr>
<tr>
<td>Worthington G. Schenk III</td>
<td>Professor of Surgery, University of Virginia School of Medicine</td>
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1979

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<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lynn H. Harrison</td>
<td>Professor and Chief, Cardiothoracic Surgery, University of Massachusetts Medical School</td>
</tr>
<tr>
<td>William C. DeVries</td>
<td>Clinical Professor of Surgery, George Washington School of Medicine and Health Sciences</td>
</tr>
<tr>
<td>Dana K. Anderson</td>
<td>Professor and Vice-Chair of Surgery, Johns Hopkins; Surgeon-in-Chief, Johns Hopkins-Bayview Medical Center</td>
</tr>
<tr>
<td>George S. Leight Jr.</td>
<td>Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Bruce M. Smith</td>
<td>Associate Professor of Surgery, Georgetown University School of Medicine</td>
</tr>
</tbody>
</table>

1978

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>James L. Cox</td>
<td>Chairman and Chief Executive Officer, World Heart Foundation; Emeritus Professor of Surgery, Washington University School of Medicine</td>
</tr>
</tbody>
</table>
# Positions of Chief Residents of Surgery

## 1978

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>John W. Hammon</td>
<td>Professor of Surgery, Wake Forest University School of Medicine</td>
</tr>
<tr>
<td>John P. Grant</td>
<td>Professor of Surgery and Director of the Bariatric Surgery Program, Duke University Medical Center</td>
</tr>
<tr>
<td>Gregory S. Georgiade</td>
<td>Professor of Surgery, Chief of Division of Plastic Surgery, and Vice Chair of Department of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>David K. Wellman</td>
<td>Chief Medical Officer, United Emergency Services, Durham, NC</td>
</tr>
</tbody>
</table>

## 1977

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<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kent W. Jones</td>
<td>Clinical Professor of Surgery, University of Utah; Surgeon, Intermountain Healthcare and Intermountain Medical Center</td>
</tr>
<tr>
<td>Roger C. Millar</td>
<td>Intermountain Cardiovascular, St. George, UT</td>
</tr>
<tr>
<td>William R. Beltz</td>
<td>Susquehanna Health Wound Healing Center, Williamsport, PA</td>
</tr>
<tr>
<td>Richard A. Perryman</td>
<td>Chief of Cardiac Surgical Service, Memorial Healthcare System, Hollywood, FL</td>
</tr>
</tbody>
</table>

## 1976

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>Fred A. Crawford Jr.</td>
<td>Distinguished University Professor, Medical University of South Carolina</td>
</tr>
<tr>
<td>M. Wayne Flye</td>
<td>Chief, Thoracic Surgery, St. Louis Veterans Administration Hospital; Chief of Surgery, Saint Louis Connect Care Health Systems</td>
</tr>
<tr>
<td>John W. Yarbrough</td>
<td>Thoracic Cardiovascular Assoc, Columbia, SC</td>
</tr>
<tr>
<td>Lewis H. Stocks III</td>
<td>Stocks Surgical Center, Raleigh, NC</td>
</tr>
</tbody>
</table>
### 1976

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>Robert P. Barnes</td>
<td>Department Chair, Cardiovascular Services, St. Luke's Hospital, Boise, ID</td>
</tr>
<tr>
<td>Richard O. Gregory</td>
<td>Private practice, plastic surgery, Orlando, FL</td>
</tr>
</tbody>
</table>

### 1975

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Thomas M. Daniel</td>
<td>Chief, Section of General Thoracic Surgery, University of Virginia</td>
</tr>
<tr>
<td>Robert H. Jones</td>
<td>Professor of Surgery, Duke University Medical Center</td>
</tr>
</tbody>
</table>

### 1974

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>James A. Alexander</td>
<td>Professor of Surgery, University of Florida College of Medicine</td>
</tr>
<tr>
<td>Andrew S. Wechsler</td>
<td>Professor of Surgery, Drexel University College of Medicine</td>
</tr>
<tr>
<td>Kenneth P. Ramming</td>
<td>Professor of Surgery, UCLA</td>
</tr>
</tbody>
</table>

### 1973

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<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Sewell H. Dixon</td>
<td>President &amp; CEO, St. Kitts Medical, Inc.</td>
</tr>
<tr>
<td>S. Kirby Orme</td>
<td>Cardiovascular &amp; Chest Surgical Associates, Boise, ID</td>
</tr>
<tr>
<td>James C.A. Fuchs</td>
<td>Union Memorial Hospital, Baltimore, MD</td>
</tr>
<tr>
<td>Bradley M. Rogers</td>
<td>Primary Care Center, Charlottesville, VA</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery

### 1972

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Don E. Detmer</td>
<td>University Professor of Health Policy Emeritus and Professor of Medical Education, University of Virginia</td>
</tr>
</tbody>
</table>

### 1971

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. Linwood Puckett</td>
<td>University of Missouri Health System, Columbia, MO</td>
</tr>
<tr>
<td>Robert E. Cline</td>
<td>President of Cline Cardiovascular Associates, FL</td>
</tr>
<tr>
<td>William A. Gay Jr.</td>
<td>Professor Emeritus of Surgery, Washington University School of Medicine</td>
</tr>
<tr>
<td>Robert W. Anderson</td>
<td>Chairman of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Walter G. Wolfe</td>
<td>Professor of Surgery, Duke University Medical Center; Chief of Thoracic Surgery, VA Medical Center</td>
</tr>
</tbody>
</table>

### 1970

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Newland Oldham Jr.</td>
<td>Professor of Surgery, Duke University Medical Center (Retired)</td>
</tr>
<tr>
<td>John M. Porter</td>
<td>Chief of Vascular Surgery, University of Oregon</td>
</tr>
<tr>
<td>Samuel A Wells Jr.</td>
<td>Chairman of Surgery, Washington University</td>
</tr>
</tbody>
</table>
MOHAMED OMER ABDELGADIR ADAM, M.B.B.S.

Education:
M.D., Faculty of Medicine and Health Science, 2004

Training:
- General Surgery (PGY1) 6/24/2010-6/30/2011
- General Surgery (PGY2) 7/1/2011-6/30/2012
- General Surgery (PGY3) 7/1/2012-6/30/2013
- Surgery Research Fellowship – Duke (PGY4) 7/1/2013-6/30/2014
- Surgery Research Fellowship – Duke (PGY5) 7/1/2014-6/30/2015
- Surgery Research Fellowship – Duke (PGY6) 7/1/2015-6/30/2016
- General Surgery (PGY7) 7/1/2016-6/30/2017
- General Surgery (PGY8) 7/1/2017-Present

Research Interests:
Health Services Research and Advanced Modeling in Surgical Oncology

Clinical Interests:
Surgical Oncology

Publications:


Chief Resident Profiles

S1199.


Residents


Youngwirth L, Adam MA, Scheri RP, Roman SA, Sosa JA. Extrathyroidal Extension is Associated with Compromised Survival in Patients with Thyroid Cancer. Thyroid. 2017 May;27(5):626-631.


Chief Resident Profiles


Kim J, Sun Z, Adam MA, Tracy ET. Younger Age is a Risk Factor for Metastatic Disease at Presentation in Pediatric Differentiated Thyroid Cancer. J Pediatr Surg. (Submitted).

BRIAN GULACK, MD

Education:
M.D., University of Pittsburgh School of Medicine, 2011

Training:
General Surgery (PGY1) 6/27/2011-6/30/2012
General Surgery (PGY2) 7/1/2012-6/30/2013
Surgery Research Fellowship – Duke (PGY3) 7/1/2013-6/30/2014
Surgery Research Fellowship – Duke (PGY4) 7/1/2014-6/30/2015
General Surgery (PGY5) 7/1/2015-6/30/2016
General Surgery (PGY6) 7/1/2016-6/30/2017
General Surgery (PGY7) 7/1/2017-Present
Research Interests:
Comparative Effectiveness Research, Modernization of Randomized Clinical Trials, Regionalization of Pediatric Surgical Care

Clinical Interests:
Pediatric Surgery

Publications:


Chief Resident Profiles


*Co-First Authors


Yang CF, Sun Z, Speicher PJ, Saud Sm, Gulack BC, Hartwig MG, Harpole DH Jr, Onaitis MW, Tong BC, D'Amico TA, Berry MF. Use and Outcomes of Minimally Invasive Lobectomy for Stage I Non-Small Cell Lung Cancer in the National Cancer Data Base. Annals of...
Chief Resident Profiles


JEFFREY KEENAN, MD

Education:
M.D., University of Maryland School of Medicine, 2011

Training:
General Surgery (PGY1) 6/27/2011-6/30/2012
General Surgery (PGY2) 7/1/2012-6/30/2013
Surgery Research Fellowship – Duke (PGY3) 7/1/2013-6/30/2014
Surgery Research Fellowship – Duke (PGY4) 7/1/2014-6/30/2015
General Surgery (PGY5) 7/1/2015-6/30/2016
Jt General Surgery & Thoracic Surgery (PGY6) 7/1/2016-6/30/2017
Jt General Surgery & Thoracic Surgery (PGY7) 7/1/2017-Present

Research Interests:
My primary research in the laboratory of Dr. Claude Piantadosi relates to genetic regulation of mitochondrial biogenesis and mitochondria quality control in the heart and their relationship to cardiomyocyte dysfunction, cardiac oxidative stress, and cardiomyopathy. Additionally, I have been involved in a number of clinical projects during residency including outcomes studies extracorporeal life support and thoracic aortic surgery and quality improvement studies.

Clinical Interests:
I am pursuing fellowship training in cardiothoracic surgery with a lead interest in cardiac surgery and advanced heart failure.
Residents

Publications:


Resident Profiles

Chief Resident Profiles


Benrashid E, Wang H, Andersen ND, Keenan JE, McCann RL, Hughes GC. Complementa-


CHRISTOPHER McCoy, MD

Education:
M.D., Emory University School of Medicine, 2011

Training:
General Surgery (PGY1) 6/27/2011-6/30/2012
General Surgery (PGY2) 7/1/2012-6/30/2013
Surgery Research Fellowship – Duke (PGY3) 7/1/2013-6/30/2014
Surgery Research Fellowship – Duke (PGY4) 7/1/2014-6/30/2015
General Surgery (PGY5) 7/1/2015-6/30/2016
General Surgery (PGY6) 7/1/2016-6/30/2017
General Surgery (PGY7) 7/1/2017-Present

Research Interests:
Coagulopathy of trauma and critical illness
Transfusion quality improvement and blood product utilization

Clinical Interests:
Trauma surgery
Surgical critical care
Vascular surgery

Publications:


Chief Resident Profiles


MITHUN SHENOI, MD, PhD

Education:
M.D., University of Minnesota Medical School, 2013
Ph.D., University of Minnesota, 2011

Training:
General Surgery (PGY1) 6/21/2013-6/30/2014
General Surgery (PGY2) 7/1/2014-6/30/2015
General Surgery (PGY3) 7/1/2015-6/30/2016
General Surgery (PGY4) 7/1/2016-6/30/2017
General Surgery (PGY5) 7/1/2017-Present

Research Interests:
Nanotechnology and cancer imaging
Thermal ablation therapies
Cancer immunology

Clinical Interests:
Colorectal malignancies
Inflammatory bowel disease
Anorectal disease

Publications:


CHI-FU JEFFREY YANG, MD

Education:
M.D., Harvard Medical School, 2011

Training:
General Surgery (PGY1) 6/27/2011-6/30/2012
General Surgery (PGY2) 7/1/2012-6/30/2013
Surgery Research Fellowship – Duke (PGY3) 7/1/2013-6/30/2014
Surgery Research Fellowship – Duke (PGY4) 7/1/2014-6/30/2015
General Surgery (PGY5) 7/1/2015-6/30/2016
General Surgery (PGY6) 7/1/2016-6/30/2017
General Surgery (PGY7) 7/1/2017-Present

Research Interests:
Lung cancer, mesothelioma, esophageal cancer

Clinical Interests:
Thoracic surgical oncology; minimally invasive thoracic surgery

Publications:

Gray PB, Yang CF [co-first author], Pope HG Jr. Fathers Have Lower Salivary Testosterone Levels Than Unmarried Men and Married Non-fathers In Beijing, China. Proceedings of the Royal Society of London Biological Sciences 2006; 273:333-339. PMID: 16543176

Chief Resident Profiles


Yang CF, Meyerhoff RR, Mayne NR, Singhapricha T, Toome CB, Speicher PJ, Hartwig MG,


Yang, CF, D’Amico TA. Recent Randomized Trials on Stage III Lung Cancer Treatment. Translational Cancer Research 2016; 5 (S2): S170-S173


Yang, CF, D’Amico, TA, Berry MF. Frozen section of N2 nodes is invaluable whenever unexpected suspicious operative findings are encountered. Journal of Thoracic and Cardiovascular Surgery 2016. 152(6):1643-1644. PMID: 27842692


Chief Resident Profiles


Residents

Current Residents

**PGY-1**

**Sunny Cai, MD**
Indiana University School of Medicine

**Marcelo Cerullo, MD**
Johns Hopkins University School of Medicine

**Sarah Commander, MD**
Baylor College of Medicine

**Konstantinos Economopoulos, MD**
University of Athens School of Medicine
PGY-1

Samuel Kesseli, MD
Geisel School of Medicine

Craig Luplow, MD
University of Washington School of Medicine

Dimitrios Moris, MD
University of Athens School of Medicine

Christian Refakis, MD
Stony Brook University School of Medicine
Current Residents

PGY-1

Vadim Rosin, MD
University of Michigan Medical School

Mariya Samoylova, MD
University of California at San Francisco

Robin Schmitz, MD
Medizinischen Fakultät Heidelberg

Brian Shaw, MD
University of California at San Francisco
PGY-2

David Becerra, MD
Indiana University School of Medicine

Norma Farrow, MD
Johns Hopkins University School of Medicine

Zachary Fitch, MD
East Virginia Medical School

Oliver Jawitz, MD
Yale School of Medicine
Residents

Current Residents

PGY-2

Vignesh Raman, MD
Dartmouth Medical School

Christopher Reed, MD
Virginia Tech Carilion School of Medicine

David Thompson, MD
Tulane University School of Medicine
Residents

PGY-3

James Meza, MD
University of Michigan Medical School

David Ranney, MD
University of Michigan Medical School

Zhifei Sun, MD
University of Texas Southwestern Medical School

Hanghang Wang, MD
Geisel School of Medicine
Residents

Current Residents

PGY-3

Alice Wang, MD
Duke University School of Medicine

Babatunde Yerokun, MD
The Pritzker School of Medicine, University of Chicago
PGY-4

Ehsan Benrashid, MD
University of Virginia School of Medicine

Robert Patrick Davis, MD, PhD
Michigan State University College of Human Medicine

Jina Kim, MD
University of Michigan Medical School

Daniel Nussbaum, MD
Keck School of Medicine of the University of Southern California
Current Residents

PGY-4

Linda Youngwirth, MD
University of Wisconsin Medical School
Residents in Research Fellowship

Justin Barr, MD, PhD
University of Virginia School of Medicine

Morgan Cox, MD
Indiana University School of Medicine

Brian Ezekian, MD
University of Virginia School of Medicine

Brian Gilmore, MD
Duke University School of Medicine
Residents

Current Residents

Residents in Research Fellowship

Whitney Lane, MD
Duke University Medical School

Carrie Moore, MD
Vanderbilt University School of Medicine

Michael Mulvihill, MD
Duke University School of Medicine

Uttara Nag, MD
University of Pittsburgh School of Medicine
Residents in Research Fellowship

Cecilia Ong, MD
Duke University School of Medicine

Paul Schroder, MD
The University of Toledo College of Medicine

Adam Shoffner, MD
Yale University School of Medicine

Karenia Soto, MD
University of Miami Leonard M. Miller School of Medicine
Current Residents

Residents in Research Fellowship

Shanna Sprinkle, MD
Perelman School of Medicine, University of Pennsylvania

Megan Turner, MD
University of Washington School of Medicine

Joshua Watson, MD
Johns Hopkins University School of Medicine

John Yerxa, MD
Duke University School of Medicine
Dedicated Resident Research Program in General Surgery

The General Surgery Residency Program offers a two-year research experience following the PGY2 year that is dedicated both to research experiences and learning. The research experiences are under the guidance of experienced mentors and include clinical and/or basic science research projects, applications for funding, and meeting abstract and paper submissions. Research topic and mentor selection officially begins during the PGY1 year and is aided through quarterly meetings with the Program Director for the research program and the Associate Director for Research Education. Together the resident and their mentor(s) design a research plan, which is presented to the Chair of Surgery during the PGY2 year.

Funding for the research years is shared between the Department of Surgery and the mentor’s division. All PGY2 residents develop and submit a Kirchstein National Research Service Award (NRSA) proposal for the April deadline prior to their first research year. The unique interaction between basic science and clinical faculty within the Department of Surgery, which includes the Division of Surgical Science and other education initiatives (Duke SCORES and DUKE MERITS), allows the resident to choose from a wide range research topics that can include cardiovascular, oncology, biomedical engineering, immunology, and transplant sciences. This interdisciplinary research and clinical education provides an essential academic experience—applying for a grant from the NIH—and gives fellows the opportunity to develop a research plan for internal NIH-funded fellowship (institutional T32) grants, the DCRI Research Fellowship Training Program, or foundation fellowships such as the Thoracic Surgery Foundation for Research and Education (TSFRE), Ethicon-SUS (Society of University Surgeons), American College of Surgeons Clinical Scholars in Residence Program, or American Cancer Society, amongst others.

Progress is monitored by quarterly meetings with the residents and their mentors with the Research Residency Director and Associate Director for Research Education. Adjustments can be made along the way, depending on progress and interest. This oversight ensures a rewarding and successful experience for each resident. Metrics for success include project funding application submission, meeting abstract submissions and presentations, and paper writing, submission, and publications.

If you have questions, contact:

**David H. Harpole, MD**  
Resident Research Director  
Professor of Surgery  
Cardiovascular and Thoracic Surgery

**Gayathri R. Devi, MS., PhD**  
Associate Professor of Surgery  
Associate Director for Research Education  
Surgical Sciences
Research Laboratories

An internationally recognized leader in laboratory and clinical investigation, the Duke Department of Surgery receives over $60 million dollars of grant and award funding each year. It has been the top department of surgery recipient of NIH awards for over 20 years.

Our team of over 200 faculty members publish hundreds of articles annually in peer-reviewed journals, disseminating key findings and insights far beyond our walls. We welcome the contributions of our residents in advancing the science of surgery in our research labs.

Highlights of research performed at Duke Surgery follow. Find more information at surgery.duke.edu.
Duke Endocrine Neoplasia Diseases Research Group

**Principal Investigator**
Julie Sosa, MD

Research in the Duke Endocrine Neoplasia Research Group focuses on benign and malignant diseases of the thyroid, parathyroid, pancreas, and adrenal glands. Although our primary emphasis is health services research and health outcomes, we are also interested in examining different issues along the continuum of patient care, including translational research, the psychological and economic impact on patients of endocrine diseases and their subsequent treatment, and patients' decisions regarding the different diagnostic and treatment strategies available to them. The group comprises surgeons, endocrinologists, medical and radiation oncologists, residents, fellows, health services researchers, epidemiologists, pathologists, biostatisticians, surgical scientists, pharmacologists, and environmental health scientists at Duke, as well as surgery and biomedical engineering faculty from UNC-Chapel Hill and NC State.

[Website](#)

Determinants of Progression in Early Breast and Ovarian Cancer

**Principal Investigators**
Jeffrey Marks, PhD
Eun-Sil Shelley Hwang, MD, MPH

Research in the Marks-Hwang laboratory focus on the earliest stages of breast cancer, exploring the genetics, microenvironment, and evolution of early breast cancer. We are studying primary human ductal carcinoma in situ (DCIS) lesions that have not progressed to invasive cancer and comparing these to lesions that have progressed to invasive and metastatic disease. Our central hypothesis regarding progression is that principles of evolution applied to human cancer can help to predict which lesions should be aggressively treated from those that are indolent and unlikely to progress. The lab is highly interdisciplinary and integrates scientific collaborators from UCSF, OHSU, Stanford University, USC, and member institutions of the TBCRC, a clinical trials translational research network.

[Website](#)
Cardiothoracic Surgery Translational Research Laboratory

**Principal Investigator**
Carmelo Milano, MD

The mission of the Cardiothoracic Surgery Translational Research Laboratory is to gain knowledge that will directly impact the clinical practice of cardiac surgery, heart failure therapy, heart transplantation, and mechanical circulatory support. We conduct translational research by utilizing clinical specimens obtained through the Duke Human Heart Repository and large and small animal models. The lab has expertise and experience with molecular assays, cell culture studies, tissue banking, biomarker development, viral-based gene therapy and large animal models of disease states. We welcome undergraduates, graduate and medical students, postgraduates, and medical residents interested in research investigation in these areas.

[Website](#)

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Cardiovascular and Pulmonary Biology Laboratory

**Principal Investigator**
Shu Shiuh-Shi Lin, MD, PhD

Research in the Cardiovascular and Pulmonary Biology Laboratory has investigated various aspects of chronic aspiration-induced lung injury in non-transplant settings by using a rodent model of chronic gastric fluid aspiration. Our ongoing studies have revealed that the development of obliterative bronchiolitis in this model, a major cause of chronic lung allograft dysfunction (CLAD) in patients, is dependent on a three-hit injury involving: (a) ischemia-reperfusion injury, (b) alloimmunity, and (c) chronic aspiration. In collaboration with Dr. William Parker at Duke, we also conduct research into factors present in post-industrial society that lead to aberrant immune function.

[Website](#)
Duke Center for Aortic Disease Research Program

Principal Investigator
G. Chad Hughes, MD

The goal of the Duke Center for Aortic Disease Research Program is to further our understanding of the pathophysiology of aortic diseases, develop better surgical and non-surgical treatments, and improve short- and long-term outcomes after thoracic aortic surgery. Our key projects include treatment and outcomes of acute and chronic aortic dissection; improving outcomes after proximal aortic surgery; improving outcomes after thoracic endovascular aortic repair; and developing and advancing transcatheter aortic valve replacement.

Website

Mechanical Support for Heart and Lung Disease Research

Principal Investigator
Mani Daneshmand, MD

Our research focuses on the use of mechanical circulatory support for individuals with acute treatable conditions causing lung or heart failure. Dr. Daneshmand and co-investigators seek to study important clinical questions regarding variables that influence outcomes for therapies for advanced heart or lung failure and how mechanical support is best applied in various clinical settings. We’ve used large databases and registries such as the Interagency Registry for Mechanical Assisted Circulatory Support (INTERMACS), United Network for Organ Sharing (UNOS), and the Nationwide Inpatient Sample (NIS) to evaluate cost-effectiveness, safety, and quality of life for mechanical circulatory support therapies.

Website
Fibrosis and Wound Healing

Principal Investigator
Howard Levinson, MD

This laboratory investigates the mechanisms of fibrosis and tissue remodeling and aims to develop a novel small molecule inhibitor to prevent fibrocontractile disease progression. There is a large unmet need for an effective pharmaceutical to prevent fibrosis. The main projects in the laboratory currently seek to: (1) evaluate the clinicopathologic correlation between expression of NMMII (isoforms IIA, IIB, IIC), myosin light chain kinase (MLCK), Rho kinase, MRLC, MYPT, and a-SMA as they relate to scar contracture progression and (2) clarify the relationship between NMMII regulation in fibroblasts, protomyofibroblasts, and myofibroblasts and tractional force generation.

Website

DataLab for Clinical Care & Population Health

Principal Investigator
Alexander C. Allori, MD

The DataLab for Clinical Care & Population Health utilizes epidemiology, research-design principles, biostatistics, and computational data-science methods to focus on the following areas of research:

- Comparative effectiveness research
- Pragmatic health-systems research
- Health-technology assessment
- Quality assessment, control and improvement
- Dissemination and implementation science
- Geospatial analysis
- Disparities of care
- Health policy
- Health care economics

Clinically, our predominant focus is on health and health care related to pediatric conditions, particularly congenital anomalies that require complex, multidisciplinary care.

Website
Tissue Engineering and Implantable Devices

Principal Investigator
Bruce Klitzman, PhD

Researchers in this lab are currently working on the attachment of endothelial cells to vascular grafts in order to impart a more blood-compatible surface. We are also studying methods to implant glucose sensors for diabetics, developing a new generation of glaucoma drainage devices, and improving the biocompatibility of implants through the coating of a special material that releases nitric oxide. Our projects receive funding from the National Institutes of Health and the Department of Defense.

Website

Vascularized Composite Allograft Laboratory

Principal Investigator
Linda Cendales, MD

Our research facilitates the translation of vascularized composite allotransplantation (VCA) from the bench to the bedside. VCA refers to the transplantation of multiple tissues, such as skin, muscle, tendon, nerve, and bone, as a functional unit (e.g., a hand). Several recent advances in clinical organ transplant immunosuppression and experimental VCA have now made it feasible to consider clinical VCA for functional restoration in patients with the loss of one or both hands or large tissue defects that may not be reconstructed with autologous tissue.

Website
Knechtle Lab

Principal Investigator
Stuart Knechtle, MD

Research in the Knechtle Lab focuses on the immunology of organ transplantation. Two unsolved problems in transplantation are: (1) injury caused by antibody directed at the donor organ and (2) recurrence of autoimmune disease after transplantation. Neither of these immunologic injuries is well addressed by current immunosuppressive therapy, and both prevent successful long-term allograft function. Our laboratory works in animal models to address the first of these problems and is engaged in human clinical trials to address the second.

Website

Immune Management Laboratory

Principal Investigator
Allan D. Kirk, PhD

When patients receive an organ transplant, they must take immunosuppressive medications for life to prevent rejection. These drugs are incompletely effective and cause significant morbidity. My research is directed toward understanding transplant rejection and translating this understanding into less morbid therapies for transplant recipients.

Our group uses in vitro and animal models to develop transplant strategies and then investigates them in clinical trials. We also receive samples from patients in clinical trials to help understand what the next questions should be. We have successfully targeted several costimulatory molecules with monoclonal antibodies in primates and in humans, and are currently working to determine the best means of using these molecules to prevent kidney transplant rejection.

Website
Research Labs

Vascular Surgery Research Laboratory

Principal Investigator
Jeffrey Lawson, MD, PhD

The Vascular Surgery Research Laboratory is actively pursuing basic, translational, and clinical research activities related to the fields of blood coagulation, vascular biology, and vascular surgery. The laboratory has become a leader in the field of vascular translational research and has successfully developed a number of molecular, cellular, and tissue engineered technologies through translational animal studies to first-in-man clinical trials. Projects include pre-clinical and clinical evaluation of human tissue engineered blood vessels; venous remodeling after arterial bypass and vascular access creation; and human blood coagulation response to trauma and elective surgery.

Website

Antiviral Drug Discovery Laboratory

Principal Investigator
Chin Ho Chen, PhD

The Laboratory of Antiviral Drug Discovery conducts research for the development of novel therapeutics against HIV-1 and influenza viruses. Projects include novel small molecules against HIV-1 and influenza viruses; identification of biological active principles from natural products; lead optimization of antivirals; and molecular mechanisms of antiviral actions. Among our achievements is the discovery of HIV-1 entry inhibitors through the study of HIV-1 Env-mediated cell-cell fusion.

Website
Cardiovascular Biology Laboratory

Principal Investigator
Bruce Sullenger, PhD

The Cardiovascular Biology Laboratory is focused on multidisciplinary translational research approaches to the study of blood coagulation, inflammation, and atherogenesis at the molecular level. Novel anti-coagulation approaches developed within the program are presently undergoing preclinical and clinical evaluation. Ongoing studies are aimed at exploring molecular therapeutic approaches in the treatment of cardiovascular disease. We strive to develop novel, safe, and effective nucleic acid therapeutics. The lab currently focuses on two areas: (1) RNA and DNA repair via targeted trans-splicing and (2) the development of RNA ligands to protein targets to block or alter their function.

Website

Cell Death Laboratory

Principal Investigator
Gayathri R. Devi, PhD

Our research group focuses on translational and clinical applications of programmed cell death signaling. We are particularly interested in elucidating molecular mechanisms of stress-induced cell survival/death signaling in normal and cancer cells and how this process regulates immune response. Current funded research projects in the lab focus on innovative approaches toward immunosuppressive minimization; in vitro and in vivo tumor biology models; novel approaches toward islet xenotransplantation; and innovative preclinical models and strategies to modulate this anti-cell death.

Website
Center for Applied Therapeutics

Principal Investigator
H. Kim Lyerly, MD

The Center for Applied Therapeutics encompasses a broad array of research activities involved in the development, preclinical testing, and clinical testing of novel therapies targeting cancer or precancerous conditions. Major research areas of focus are early cancer genomics and biology; in vivo detection of malignant cells; immune therapy of cancer; population sciences; environmental health scholars; and international/global studies.

Website

Endocrine Neoplasia Laboratory

Principal Investigator
James Koh, PhD

In collaboration with Dr. Julie Sosa, the Endocrine Neoplasia Laboratory employs a combination of molecular, murine modeling, and live-cell imaging approaches to examine the underlying mechanisms of disrupted calcium sensing in parathyroid tumors. Our group has shown recently that parathyroid adenomas are comprised of functionally discrete and separable cellular subpopulations that respond differentially to extracellular calcium stimulation and that arise in many cases following polyclonal expansion of progenitor cells within the parathyroid gland. Our goal is to understand how perturbed biochemical signaling can contribute to the development of preneoplastic lesions in human endocrine neoplasia.

Website
Immune Dysfunction and Evolutionary Mismatch Laboratory

**Principal Investigators**
William Parker, PhD

The primary focus of our laboratory is the concept of “evolutionary mismatch” and how that affects immune function in the modern world. An evolutionary mismatch is simply described as a condition in which an organism’s current environment leads to disease because it does not match the environment which drove the evolution of that organism’s genes. We are interested in normalizing immune function in Western society, in particular by dealing with one of the most profound and impactful consequences of evolutionary mismatch, “biome depletion”—the loss of biodiversity from the ecosystem of the human body.

[Website](#)

Immune Mechanisms of Disease Pathogenesis Laboratory

**Principal Investigator**
John S. Yi, PhD

The Immune Mechanisms of Disease Pathogenesis laboratory is focused on developing a comprehensive understanding of the cell-mediated immune responses to diseases spanning from cancer to autoimmune diseases. This disease spectrum is an example of the benefits and consequences of the immune response and the critical balance that is required to achieve immune homeostasis. In our laboratory, we are deeply interested in how this balance in the immune response gets skewed in favor of autoimmunity or skewed in the opposite direction to elicit a strong immune response to eliminate pathogens without damaging the host. To profile the immune response, we utilize high dimensional flow cytometry and multiplex cellular assays to define the phenotype and functional capacity of immune cell subsets.

[Website](#)
Immune Responses and Virology Laboratory

Principal Investigator
Georgia Tomaras, PhD

The goal of the Immune Responses and Virology Laboratory is to understand the cellular and humoral immune response to HIV-1 infection and vaccination that are involved in protection from HIV-1. Research in our laboratory centers around the following three main projects: (1) antiviral CD8+ T cell responses in HIV-1 infection and post-vaccination, (2) mucosal and systemic antibody responses to infection and vaccination in both non-human primates and humans, and (3) the ontogeny of neutralizing antibodies in HIV-1 infection.

Website

Immunologic Signatures Laboratory

Principal Investigator
Kent J. Weinhold, PhD

The Immune Signatures Laboratory is the academic home for the Duke Immune Profiling Core (DIPC), a School of Medicine Shared Resource. In addition to our ongoing HIV/AIDS research projects, we’re presently focused on utilizing a comprehensive repertoire of highly standardized and formerly validated assay platforms to profile the human immune system in order to identify immunologic signatures that predict clinical outcomes. These are the very same assay platforms that have proven extraordinarily useful in profiling immunologic changes during acute and chronic HIV infection as well as in the context of elite virologic control.

Website
Immunology, Inflammation, and Immunotherapy Laboratory

Principal Investigator
Smita Nair, PhD

The research in our laboratory focuses on the design and testing of novel vaccines against cancer and viral infections using murine and human assay systems. In a pioneering study, our group demonstrated that dendritic cells, pulsed with unfractionated total RNA isolated from tumor cells, stimulates tumor immunity both in murine tumor models and in vitro human assays. A large number of our preclinical strategies have been translated into Phase I clinical trials in cancer patients. The focus and challenge of our laboratory, both at the preclinical and clinical level, is to augment the clinical benefit associated with immunotherapy. Our long-term goals are to: (1) evaluate the combined effects of individual strategies, (2) extend the clinical exploration to multiple cancers, and (3) combine immunotherapy and immune modulation with targeted cytotoxic therapy (radiotherapy, chemotherapy, immunotoxin therapy, and oncolytic poliovirus therapy).

Website

Innate and Adaptive Cellular Cytotoxicity Laboratory

Principal Investigator
Guido Ferrari, MD

The overall goal of the laboratory is to understand the ontogeny of HIV-1 specific MHC class I-restricted and non-restricted immune responses that work by eliminating HIV-1 infected cells and how these can be induced by AIDS vaccine candidates. The studies gravitate around class I-mediated cytotoxic CD8+ T cell responses, antibody-dependent cellular cytotoxicity (ADCC), gene expression in effector cellular subsets, and development of Ab-based molecules that can engage cytotoxic effector subsets.

Website
Laboratory for AIDS Vaccine Research and Development

Principal Investigator
David Montefiori, PhD

Our major research interests are viral immunology and HIV vaccine development, with a special emphasis on neutralizing antibodies. One of our highest priorities is to identify immunogens that generate broadly neutralizing antibodies for inclusion in vaccines. Many aspects of neutralizing antibodies are studied in our laboratory, including mechanisms of neutralization, viral escape from neutralization, and epitope diversity among the many different genetic subtypes and geographic distributions of the virus.

Website
Duke Surgery faculty members are both expert practitioners and valuable mentors. They have been trained at some of the most prestigious institutions in the country, and many are regarded internationally as experts in their field. Every year, they perform more than 30,000 procedures, publish hundreds of articles in peer-reviewed journals, and treat some of the rarest and most challenging medical conditions.

At the same time, they are committed to providing comprehensive training and education to medical students, residents, and fellows. Faculty members show a high level of responsibility for trainees’ futures, taking the time to develop relationships that support a collaborative learning environment. Residents are encouraged to begin mentorship relationships with faculty in the first year of their training and to develop these into lasting collaborative associations. This direct access to experts allows residents to gain direct knowledge that cannot be found through classroom instruction.

In addition to being the academic home for faculty in the traditional general surgical specialties, the Department houses faculty in Cardiovascular and Thoracic Surgery, Otolaryngology, Plastic Surgery, Urologic Surgery, and Vascular Surgery, as well as basic science faculty within the Division of Surgical Sciences. This enhances the breadth of experience afforded the general surgery resident. Members of the General Surgery and Cardiovascular and Thoracic faculty are listed below, as rotations on these specialties are most prevalent for the general surgery resident.
Abdominal Transplant Surgery

Andrew Serghios Barbas, MD
Assistant Professor of Surgery
Duke Surgery Profile

Todd Victor Brennan, MD, MS
Associate Professor of Surgery
Duke Surgery Profile

Bradley Henry Collins, MD
Medical Director, Animal Research
Associate Professor of Surgery
Duke Surgery Profile

Allan Douglas Kirk, MD, PhD
David C. Sabiston, Jr. Professor of Surgery
Chair, Department of Surgery
Professor of Surgery
Duke Surgery Profile
Stuart Johnston Knechtle, MD
Mary and Deryl Hart Professor of Surgery
Professor of Surgery
Duke Surgery Profile

Jean Kwun, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Kadiyala Venkata Ravindra, MBBS
Director, Abdominal Transplant Surgical Fellowship
Associate Professor of Surgery
Duke Surgery Profile

Debra L Sudan, MD
Professor of Surgery
Duke Surgery Profile
Abdominal Transplant Surgery

Deepak Vikraman Sushama, MD
Assistant Professor of Surgery

Duke Surgery Profile
Advanced Oncologic and Gastrointestinal Surgery

Georgia Marie Beasley, MD, MHS
Assistant Professor of Surgery
Duke Surgery Profile

Dan German Blazer III, MD
Director, Hepatopancreatobiliary (HPB) Fellowship
Associate Professor of Surgery
Duke Surgery Profile

Gayle Ackerman DiLalla, MD
Assistant Professor of Surgery
Duke Surgery Profile

Oluwadamilola Motunrayo Fayanju, MD, MA
Assistant Professor of Surgery
Duke Surgery Profile
Advanced Oncologic and Gastrointestinal Surgery

Rachel Adams Greenup, MD, MPH
Director, Breast Fellowship
Assistant Professor of Surgery
Duke Surgery Profile

Eun-Sil Shelley Hwang, MD, MPH
Vice-Chair of Research
Chief, Section of Breast Surgery
Professor of Surgery
Duke Surgery Profile

Sandhya Anand Lagoo-Deenadayalan, MD, PhD
Associate Professor of Surgery
Duke Surgery Profile

Billy Y Lan, MD
Assistant Professor of Surgery
Duke Surgery Profile
Laura Lazarus, MD
Assistant Professor of Surgery
Duke Surgery Profile

George Staples Leight Jr., MD
Professor of Surgery
Duke Surgery Profile

Christopher Ritchie Mantyh, MD
Chief, Section of Gastrointestinal and Colorectal Surgery
Professor of Surgery
Duke Surgery Profile

John Migaly, MD
Director, General Surgery Residency Program
Associate Professor of Surgery
Duke Surgery Profile
Advanced Oncologic and Gastrointestinal Surgery

Harvey Gorden Moore III, MD
Assistant Professor of Surgery
Duke Surgery Profile

Paul Joseph Mosca, MD, PhD, MBA
Associate Professor of Surgery
Duke Surgery Profile

Thomas Leonard Novick, MD
Assistant Professor of Surgery
Duke Surgery Profile

David Masao Ota, MD
Professor of Surgery
Duke Surgery Profile
Theodore N. Pappas, MD
The Duke Surgical Innovation Professorship
Chief, Division of Advanced Oncologic and Gastrointestinal Surgery
Professor of Surgery
Duke Surgery Profile

Jennifer K Plichta, MD, MS
Assistant Professor of Surgery
Duke Surgery Profile

Sanziana Alina Roman, MD
Director, Endocrine Surgery Fellowship
Professor of Surgery
Duke Surgery Profile

Laura Horst Rosenberger, MD
Assistant Professor of Surgery
Duke Surgery Profile
Advanced Oncologic and Gastrointestinal Surgery

Randall Paul Scheri, MD
Associate Professor of Surgery
Duke Surgery Profile

Hilliard Foster Seigler, MD
Professor of Surgery
Professor of Immunology in the Department of Immunology
Duke Surgery Profile

Kevin Naresh Shah, MD
Assistant Professor of Surgery
Duke Surgery Profile

Karen Lynn Sherman, MD
Assistant Professor of Surgery
Duke Surgery Profile
Julie Ann Sosa, MD
Chief, Section of Endocrine Surgery
Director, Surgical Center for Outcomes Research (SCORES)
Professor of Surgery
Professor of Medicine
Duke Surgery Profile

Michael Tracey Stang, MD
Associate Professor of Surgery
Duke Surgery Profile

John Hubert Stewart IV, MD, MBA
Chief of Surgery, Durham VA Medical Center
Associate Professor of Surgery
Duke Surgery Profile

Julie K. Marosky Thacker, MD
Medical Director, Clinical Research Unit
Associate Professor of Surgery
Duke Surgery Profile
Advanced Oncologic and Gastrointestinal Surgery

Lisa Anne Tolnitch, MD
Assistant Professor of Surgery
Duke Surgery Profile

Sabino Zani Jr., MD
Assistant Professor of Surgery
Duke Surgery Profile
Cardiovascular and Thoracic Surgery

Albert Chang, MD  
Assistant Professor of Surgery  
*Duke Surgery Profile*

Thomas Anthony D'Amico, MD  
Gary Hock Professor of Surgery  
Director, Integrated Thoracic Surgery Residency Program and Joint General Surgery and Thoracic Surgery Residency Program  
Director, Advanced Training in Cardiothoracic Surgery  
Professor of Surgery  
*Duke Surgery Profile*

Mani Ali Daneshmand, MD  
Assistant Professor of Surgery  
*Duke Surgery Profile*

Jeffrey Giles Gaca, MD  
Associate Professor of Surgery  
*Duke Surgery Profile*
Cardiovascular and Thoracic Surgery

Donald D. Glower Jr., MD
Professor of Surgery
Duke Surgery Profile

John Carroll Haney, MD, MPH
Assistant Professor of Surgery
Duke Surgery Profile

David Harold Harpole Jr., MD
Resident Research Director
Professor of Surgery
Associate Professor in Pathology
Duke Surgery Profile

Matthew Hartwig, MD
Associate Professor of Surgery
Duke Surgery Profile
George Charles Hughes IV, MD  
Associate Professor of Surgery  
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Jacob A Klapper, MD  
Assistant Professor of Surgery  
[Duke Surgery Profile](#)  

Shu Shiu-Shi Lin, MD, PhD  
Associate Professor of Surgery  
Assistant Professor in Immunology  
Associate Professor in Pathology  
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Andrew James Lodge, MD  
Associate Professor of Surgery  
Associate Professor in Pediatrics  
[Duke Surgery Profile](#)
Faculty

Cardiovascular and Thoracic Surgery

**Terry Stephen Lowry, MD**
Assistant Professor of Surgery
[Duke Surgery Profile](#)

**Carmelo Alessio Milano, MD**
Surgical Director, Cardiac Transplantation and Left Ventricular Assist Device (LVAD) Programs
Director, Advanced Scholars in Contemporary Medicine Program
Professor of Surgery
[Duke Surgery Profile](#)

**Ryan P Plichta, MD**
Assistant Professor of Surgery
[Duke Surgery Profile](#)

**Jacob Niall Schroder, MD**
Assistant Professor of Surgery
[Duke Surgery Profile](#)
Peter Kent Smith, MD
Mary and Deryl Hart Professor of Surgery, in the School of Medicine
Chief, Division of Cardiovascular and Thoracic Surgery
Professor of Surgery
Duke Surgery Profile

Betty Caroline Tong, MD, MS, MHS
Associate Professor of Surgery
Duke Surgery Profile

Joseph W. Turek
Associate Professor of Surgery
Duke Surgery Profile

David Cloid White, MD
Associate Professor of Surgery
Duke Surgery Profile
Cardiovascular and Thoracic Surgery

Adam Richard Williams, MD
Assistant Professor of Surgery
Duke Surgery Profile

Walter George Wolfe, MD
Professor of Surgery
Duke Surgery Profile
Metabolic and Weight Loss Surgery

A Daniel Guerron, MD
Assistant Professor of Surgery
Duke Surgery Profile

Chan Woo Park, MD
Co-Director, Minimally Invasive and Bariatric Surgery Fellowship
Assistant Professor of Surgery
Duke Surgery Profile

Dana Dale Portenier, MD
Chief, Division of Metabolic and Weight Loss Surgery
Co-Director, Minimally Invasive and Bariatric Surgery Fellowship
Assistant Professor of Surgery
Duke Surgery Profile

Keri Anne Seymour, DO
Assistant Professor of Surgery
Duke Surgery Profile
Metabolic and Weight Loss Surgery

Ranjan Sudan, MD
Vice Chair of Education
Associate Professor of Surgery
Associate Professor in Psychiatry and Behavioral Sciences

Jin Soo Yoo, MD
Assistant Professor of Surgery

Duke Surgery Profile
Pediatric General Surgery

Obinna Ogochukwu Adibe, MD
Consulting Associate in the Department of Surgery
Assistant Professor in Pediatrics
[Duke Surgery Profile]

Tamara Noel Fitzgerald, MD, PhD
Assistant Professor of Surgery
[Duke Surgery Profile]

Henry Elliot Rice, MD
Chief, Division of Pediatric General Surgery
Professor of Surgery
Research Professor of Global Health
Professor in Pediatrics
[Duke Surgery Profile]

Elisabeth Tomlinson Tracy, MD
Assistant Professor of Surgery
[Duke Surgery Profile]
Plastic, Maxillofacial, and Oral Surgery

Alexander C Allori, MD
Assistant Professor of Surgery
Duke Surgery Profile

David Andrew Brown, MD, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Linda Carime Cendales, MD
Director, Duke Vascularized Composite Allotransplantation Program
Associate Professor of Surgery
Duke Surgery Profile

Detlev Erdmann, MD, MHS
Professor of Surgery
Duke Surgery Profile
**Faculty**

**Gregory S. Georgiade, MD**
Vice Chair of Clinical Practice  
Professor of Surgery  
[ Duke Surgery Profile ]

**Scott Thomas Hollenbeck, MD**
Associate Professor of Surgery  
[ Duke Surgery Profile ]

**Bruce Klitzman, PhD**
Associate Professor of Surgery  
Assistant Research Professor in Cell Biology  
Associate Professor of Biomedical Engineering  
[ Duke Surgery Profile ]

**Howard Levinson, MD**
Associate Professor of Surgery  
Assistant Professor in Pathology  
Associate Professor in Dermatology  
[ Duke Surgery Profile ]
Plastic, Maxillofacial, and Oral Surgery

Jeffrey Robert Marcus, MD
Paul H. Sherman, M.D. Associate Professor of Surgery
Chief, Division of Plastic, Maxillofacial, and Oral Surgery
Associate Professor of Surgery
Associate Professor in Pediatrics
Duke Surgery Profile

Suhail Kamrudin Mithani, MD
Director, Plastic and Reconstructive Surgery Residency Program
Assistant Professor of Surgery
Assistant Professor of Orthopaedic Surgery
Duke Surgery Profile

Wunimenghe Oriyanhan, MMed
Medical Instructor in the Department of Surgery
Duke Surgery Profile

David Bryan Powers, MD
Associate Professor of Surgery
Duke Surgery Profile
Pedro E Santiago, DMD
Associate Consulting Professor in the Department of Surgery
Duke Surgery Profile
Surgical Sciences

Francis Ali-Osman, DSc
Margaret Harris and David Silverman Professor of Neuro-Oncology Research
Professor of Surgery
Professor in Pathology
Duke Surgery Profile

Dani Paul Bolognesi, PhD
Professor Emeritus of Surgery
Duke Surgery Profile

Dawn Elizabeth Bowles, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Chin Ho Chen, PhD
Professor of Surgery
Duke Surgery Profile
Qing Cheng, PhD
Associate Professor of Surgery
Duke Surgery Profile

Gayathri R. Devi, PhD
Associate Director, Resident Research Education
Associate Professor in Surgery
Associate Professor in Pathology
Duke Surgery Profile

Guido Ferrari, MD
Associate Professor of Surgery
Associate Research Professor in Molecular Genetics and Microbiology
Duke Surgery Profile

Zachary Conrad Hartman, PhD
Assistant Professor of Surgery
Duke Surgery Profile
Surgical Sciences

Amy Claudine Hobeika, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Eda K Holl, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Li Huang, PhD
Assistant Professor of Surgery
Duke Surgery Profile

James Koh, PhD
Assistant Professor of Surgery
Duke Surgery Profile
Yuliya Krauchanka, MD, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Celia Crane LaBranche, PhD
Associate Professor in Surgery
Duke Surgery Profile

Jaewoo Lee, MS, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Herbert Kim Lyerly, MD
George Barth Geller Professor
Professor of Surgery
Professor in Immunology
Associate Professor of Pathology
Duke Surgery Profile
Surgical Sciences

Jeffrey R. Marks, PhD
Associate Professor of Surgery
Associate Professor of Pathology
Duke Surgery Profile

David Charles Montefiori, PhD
Professor of Surgery
Duke Surgery Profile

Smita Kesavan Nair, PhD
Professor in Surgery
Professor in Pathology
Duke Surgery Profile

Takuya Osada, MD, PhD
Associate Professor of Surgery
Duke Surgery Profile
William Parker, PhD
Associate Professor of Surgery
Duke Surgery Profile

Justin Joseph Pollara, PhD
Assistant Professor in Surgery
Duke Surgery Profile

Kevin O’Neil Saunders, PhD
Assistant Professor of Surgery
Duke Surgery Profile

Joshua Clair Snyder, PhD
Assistant Professor of Surgery
Assistant Research Professor of Cell Biology
Duke Surgery Profile
Surgical Sciences

Bruce Alan Sullenger, PhD
Joseph W. and Dorothy W. Beard Professor of Experimental Surgery, in the School of Medicine
Professor of Surgery
Professor of Pharmacology and Cancer Biology
Associate Professor in Molecular Genetics and Microbiology

Georgia Doris Tomaras, PhD
Professor in Surgery
Professor in Immunology
Professor in Molecular Genetics and Microbiology

Kent James Weinhold, PhD
Joseph W. and Dorothy W. Beard Professor of Experimental Surgery, in the School of Medicine
Chief, Division of Surgical Sciences
Director, Laboratories/Surgical Sciences, Basic Research
Professor of Surgery, Immunology, and Pathology

He Xu, MD
Assistant Professor of Surgery
John S Yi, PhD
Assistant Professor of Surgery

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Trauma and Critical Care Surgery

**Amy Rezak Alger, MD**
Assistant Professor of Surgery
[Duke Surgery Profile](#)

**Noran Maged Barry**
Assistant Professor of Surgery
[Duke Surgery Profile](#)

**Kelli Rachel Brooks, MD**
Assistant Professor of Surgery
[Duke Surgery Profile](#)

**Alison Suzanne Clay, MD**
Assistant Professor of Surgery
Assistant Professor in Medicine
[Duke Surgery Profile](#)
Sean Paul Montgomery, MD
Assistant Professor of Surgery
Duke Surgery Profile

Lisa Clark Pickett, MD
Assistant Professor of Surgery
Assistant Professor of Medicine
Duke Surgery Profile

Vanessa Teaberry Schroder, MD
Assistant Professor of Surgery
Duke Surgery Profile

Courtney Anne Sommer, MD, MPH
Assistant Professor of Surgery
Duke Surgery Profile
Faculty

Trauma and Critical Care Surgery

Steven Nicholas Vaslef, MD, PhD
Director, Surgical Critical Care Fellowship
Associate Professor of Surgery
Assistant Professor in Anesthesiology

Duke Surgery Profile

Cory Joseph Vatsaas, MD
Assistant Professor of Surgery

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Vascular and Endovascular Surgery

Mitchell Wayne Cox, MD
Director, Vascular Surgery Fellowship
Associate Professor of Surgery
Duke Surgery Profile

Ellen DeAnne Dillavou, MD
Associate Professor of Surgery
Duke Surgery Profile

Jeffrey Harold Lawson, MD, PhD
Professor of Surgery
Professor in Pathology
Duke Surgery Profile

Chandler Alexander Long, MD
Associate Director, Vascular Surgery Fellowship
Assistant Professor of Surgery
Duke Surgery Profile
Faculty

Vascular and Endovascular Surgery

Roberto Jose Manson, MD
Assistant Professor of Surgery
Assistant Professor in the Department of Mechanical Engineering and Materials Science
Duke Surgery Profile

Richard L. McCann, MD
Professor of Surgery
Duke Surgery Profile

Leila Mureebe, MD, MPH
Associate Professor of Surgery
Duke Surgery Profile

Daiva Nevidomskyte, MD
Assistant Professor of Surgery
Duke Surgery Profile
Cynthia Keene Shortell, MD
Chief of Staff
Chief, Division of Vascular and Endovascular Surgery, Interim Chief, Division of Trauma and Critical Care Surgery
Professor of Surgery
Associate Professor in Radiology
Duke Surgery Profile
United, for all patients.