Welcome from the Chairman

Since its origins in the 1860s under the leadership of David Williams Cheever, MD (1831–1915), the Department of Surgery at the Beth Israel Deaconess Medical Center, originally referred to as the “Fifth (Harvard) Surgical Service,” has been a preeminent center of surgical care, training, and research. In this tradition, we continue to rededicate ourselves each and every day to providing innovative care of the highest quality, developing next-generation therapies for the surgical patient through basic and clinical investigation, and preparing future leaders who will be inspired to invent the future of American surgery.

We believe that the challenge to any surgical training program is to understand the value of individual freedom, nurture intellectual diversity, appreciate flexibility, and promote originality. We believe in fostering the development of imaginative master surgeons and surgeon-innovators who will cross boundaries to identify new solutions to current and future challenges.

For 150 years, a foundation of excellence in the Department of Surgery at BIDMC has been nurtured and sustained by a variety of outstanding leaders of Harvard Medical School. Our duty has always been to create a supportive, nurturing, and collaborative environment that encourages each and every member of our community to think differently and challenge the status quo so that modern medical miracles continue to occur.

Elliot L. Chaikof, MD, PhD
Chairman, Department of Surgery
Surgeon-in-Chief, Beth Israel Deaconess Medical Center
Johnson and Johnson Professor of Surgery, Harvard Medical School
Welcome from the Program Director

On behalf of the faculty of the Beth Israel Deaconess Medical Center Department of Surgery, I welcome your interest in our general surgery training program.

With a wealth of clinical experience and exceptional research opportunities, we are committed to training superior clinicians who will also become future leaders in American surgery. As a Harvard surgical training program, we are proud of our longstanding commitment to surgical education and innovation at every level.

The impact of the alumni of our residency program – as leaders in both academia and in their communities — attests to the high quality, depth, and breadth of our program.

Our residents are predominantly selected from the top 10 percent of their graduating class, with corresponding national board scores. Interested individuals who are committed to excellence in clinical care, education, and research are encouraged to apply through ERAS.

We appreciate your interest in the Beth Israel Deaconess Medical Center General Surgery Residency Program, and look forward to receiving your completed application.

Tara S. Kent, MD, MS
Program Director, General Surgery Residency, Beth Israel Deaconess Medical Center
Vice Chair, Education, Department of Surgery
Assistant Professor of Surgery, Harvard Medical School

“The surgical residency at BIDMC emphasized meticulous attention to detail and critical thinking. The scholarly culture was second to none, and I attribute all of my subsequent successes to the many wonderful mentors who inspired me and instilled in me all the best values of academic surgery.”

— Jeffrey B. Matthews, MD (1990), Chairman, Department of Surgery; Dallas B. Phemister Professor, The University of Chicago
Training Program Leadership

Elliot L. Chaikof, MD, PhD
Chairman, Department of Surgery
Johnson and Johnson Professor of Surgery, Harvard Medical School

Tara S. Kent, MD, MS
Program Director
Division of General Surgery
Assistant Professor of Surgery, Harvard Medical School

Jonathan F. Critchlow, MD
Associate Program Director
Division of General Surgery
Assistant Professor of Surgery, Harvard Medical School

Christopher G. Boyd, MD
Assistant Program Director
Division of General Surgery
Assistant Professor of Surgery, Harvard Medical School

Sidhu Gangadharan, MD
Assistant Program Director
Division of Thoracic Surgery/Interventional Pulmonology
Associate Professor of Surgery, Harvard Medical School

Allen D. Hamdan, MD
Assistant Program Director
Division of Vascular and Endovascular Surgery
Associate Professor of Surgery, Harvard Medical School

Scan this QR code to read about the experiences of some of our alumni.

“The residency promoted core values such as honesty, compassion, professionalism, stamina, and evidence-based practice — all under a ubiquitous demand for excellence. These were the most transformative years of my life.”

— C. Keith Ozaki, MD (1995), Vascular and Endovascular Surgery, Brigham and Women’s Hospital; John A. Mannick Professor of Surgery, Harvard Medical School
About Beth Israel Deaconess Medical Center

Beth Israel Deaconess Medical Center, a major teaching affiliate of Harvard Medical School, is renowned for excellence in patient care, research, teaching, and community service. Located in the heart of Boston’s medical community, it serves more than a half million patients annually from Boston and surrounding communities, as well as patients from around the nation and the world.

The roots of the Harvard Surgical Service at Beth Israel Deaconess Medical Center reach back to 1864, establishing it as one of the oldest academic programs in the nation. Our explicit mission is to provide advanced surgical care of the very highest quality to those in need, improve health through innovation and discovery, and prepare future leaders in American surgery.

In 1864, a brilliant young surgeon named David Williams Cheever, MD (standing, center), joined the staff at the newly established Boston City Hospital, which was one of two Boston hospitals associated with Harvard Medical School.

Dr. Cheever, the son and grandson of physicians who trained under Dr. Oliver Wendell Holmes Sr., created and grew a vibrant surgical program that rapidly established itself as a vital center for clinical care, training, and research of Harvard Medical School. A pioneering surgeon and man of immense dedication and integrity, Dr. Cheever served as the second Chair of Surgery at Harvard Medical School, succeeding Henry J. Bigelow at the Massachusetts General Hospital. He was editor of the Boston Medical and Surgical Journal (a predecessor of the New England Journal of Medicine), and in 1889 served as President of the American Surgical Association. In 1915, the year of Dr. Cheever’s death, the Harvard Surgical Service was renamed the Fifth (Harvard) Surgical Service.

In 1973, William V. McDermott, MD, Director of the Fifth (Harvard) Surgical Service and Cheever Professor of Surgery at Harvard Medical School, moved the entire surgical service — staff, residents, students, and research activities alike, as well as the Cheever Chair — to New England Deaconess Hospital following Boston City Hospital’s change in affiliation, where he assumed the position of Chief of Surgery.

The Beth Israel and New England Deaconess hospitals came together as Beth Israel Deaconess Medical Center in 1996, but for nearly a century each was a national leader in health care with a long history of excellence in patient care, innovative research, and outstanding medical education. The New England Deaconess Hospital was originally founded to care for the city’s underserved residents in 1896 as part of the charter of the Methodist deaconess movement. In 1916, Beth Israel Hospital was established by Boston’s Jewish community to meet the needs of the growing immigrant population.

Today, the medical center is a tertiary/quaternary hospital with a wide range of multidisciplinary, cutting-edge clinical programs. Nearly 30,000 operative procedures are conducted each year at Beth Israel Deaconess Medical Center, making it one of the busiest centers for surgical care in the United States.
Patient Care
Beth Israel Deaconess Medical Center is a nonprofit health-care institution providing care for patients of any race, creed, color, or nationality. The medical center features:

- A state-of-the-art inpatient clinical center, including 40 operating rooms
- 649 licensed beds, including 77 ICU beds
- Emergency care provided in the modern, 23,000-square-foot Berenson Emergency Department, which has more than 55,000 patient visits a year and offers a full range of emergency services, including a Level I Trauma Center and rooftop heliport

- The Carl J. Shapiro Clinical Center, a nine-story, technologically advanced ambulatory care center. The majority of ambulatory surgery takes place in the Shapiro and its connected Feldberg operating rooms

Nearly 30,000 operative procedures are conducted at BIDMC every year.

Research
Innovative biomedical and clinical research is supported by grants from private foundations and government agencies. Beth Israel Deaconess Medical Center is one of the top three independent teaching hospitals in the nation in terms of biomedical research funding from the National Institutes of Health.

Beth Israel Deaconess Medical Center shares important clinical, research, and educational programs with institutions such as the Harvard-wide Dana-Farber/Harvard Cancer Center, Joslin Diabetes Center, Boston Children’s Hospital, the Wyss Institute for Biologically Inspired Engineering of Harvard University, the Harvard Stem Cell Institute, the Harvard-MIT Broad Institute, and the Center for Integration of Medicine and Innovative Technology (CIMIT).
Medical Education
Beth Israel Deaconess Medical Center has a longstanding commitment to educating medical students, residents, and postgraduate fellows.

— UNDERGRADUATE MEDICAL EDUCATION
As one of Harvard Medical School’s major teaching sites, BIDMC provides major core clerkships for the school’s third-year students, and each department offers a wide variety of clinical electives for fourth-year students.

— GRADUATE MEDICAL EDUCATION
In addition to its General Surgery Residency Program, BIDMC sponsors residencies in anesthesiology, medicine, emergency medicine, obstetrics/gynecology, ophthalmology, orthopedics, otolaryngology, pathology, psychiatry, radiology, urology, and integrated vascular surgery.

— POSTGRADUATE MEDICAL EDUCATION
BIDMC sponsors clinical fellowships in breast surgical oncology, cardiothoracic surgery, hand/microvascular surgery, minimally invasive surgery, plastic and reconstructive surgery, surgical critical care, transplantation, and vascular surgery, in addition to a wide variety of medical specialties.

“\textit{I benefited from the broad and diverse training and research opportunities offered by the BIDMC surgical residency, which in my view is the best in Boston.}”

— David Linehan, MD (1997), Chairman of Surgery, University of Rochester Medical Center
General Surgery Residency Program

The General Surgery Residency Program is non-pyramidal. The surgical housestaff is composed of 19 first-year residents, including nine categorical (full five-year), and nine non-designated preliminary residents. In addition to our nine non-designated preliminary interns, we also have an ENT-designated preliminary intern and a categorical integrated vascular surgery intern.

In the PGY-2 year there are nine categorical residents and four preliminary residents. In the PGY-3, PGY-4, and PGY-5 Chief Resident level, there are nine categorical residents. All members of the housestaff hold academic appointments as Clinical Fellows in Surgery at Harvard Medical School.

The surgical training program produces the country’s future surgical leaders. Clinical excellence is the foundation upon which that leadership is built, and our training programs strive to help young surgeons develop both technical and cognitive expertise. At all levels, the housestaff receive training and practical experience in the preoperative, operative, and post-operative care of patients.

The Beth Israel Deaconess program places a strong emphasis on resident-faculty interaction to enhance trainees’ education. Teaching conferences and seminars for housestaff capitalize on working relationships developed with the attending staff.

Upon completion of five years of surgical training, residents are eligible for the American Board of Surgery Examination. Our graduates consistently obtain outstanding specialty fellowships in surgical oncology, trauma, critical care, cardiothoracic, pediatric, transplant, colorectal, plastic, and vascular surgery. Graduates typically attain superb opportunities in either academic or private practice.

— PGY-1 Year
The internship year focuses on the acquisition of basic principles and clinical skills in general and vascular surgery. The majority of these rotations are at Beth Israel Deaconess Medical Center, supplemented by a pediatric surgery rotation at Boston Children's Hospital, as well as experiences with Harvard-affiliated faculty at a number of external sites, including Mount Auburn Hospital, Brockton Hospital, or Saint Vincent Hospital. Pre- and post-operative patient care is emphasized under the guidance of attending surgeons and resident staff. Interns participate in procedures that are appropriate for their stage of training and can expect to perform approximately 150 surgical cases.

— PGY-2 through PGY-4
The second and third years of residency include longer rotations to provide more in-depth training in general surgery, transplant, vascular, and trauma surgery, as well as critical care and endoscopy. In the fourth year, senior-level experience is obtained in general surgery, vascular, thoracic, and pediatric surgery, and a significant portion of the year is spent as the senior resident in acute care and trauma surgery.

— PGY-5 Chief Residency
During the fifth year of training, chief residents hone their clinical skills, performing more than 250 operations as surgeon in their final year. In their chief year, residents are also encouraged to develop their administrative and teaching skills by leading didactic sessions, heading inpatient teams, and teaching junior residents. Two chief residents are selected by their peers to serve as administrative chief residents, who also serve as resident representatives to the Housestaff Education Committee. During the chief year, residents may tailor their experiences to be most relevant to their future subspecialty.
External Rotations
While most of the residency years are spent at Beth Israel Deaconess Medical Center, that experience is rounded out with clinical rotations with Harvard-affiliated surgical staff at nearby hospitals:

— BOSTON CHILDREN’S HOSPITAL
Boston Children’s Hospital is the largest pediatric hospital in the United States with one of the largest pediatric surgery programs in the world. The Department of Surgery at Boston Children’s Hospital provides general and specialized surgical services to infants, children, and adolescents suffering from a wide range of congenital and acquired conditions. Rotations at Boston Children’s Hospital for BIDMC surgical residents in their first and fourth years offer a concentrated experience in pediatric and adolescent surgery. Opportunities to gain additional research experience at Children’s during elective periods are also available.

— BETH ISRAEL DEACONESS HOSPITAL–NEEDHAM
Beth Israel Deaconess Hospital–Needham is an acute-care community hospital that has served Needham, Massachusetts and surrounding communities for more than 80 years. The hospital provides outpatient and inpatient services, complete diagnostic facilities, and a full-service emergency department. This preceptorship provides the mid-level resident a unique window through which to view the practice of community general surgery, surgical oncology, and colorectal surgery offering a broad exposure in all venues – from evaluation in the emergency room, to the operating room and SICU, to post-operative follow-up in the clinic.

— MOUNT AUBURN HOSPITAL
Mount Auburn Hospital, located near Harvard Square, is a 191-bed acute-care, teaching hospital serving the health-care needs of residents in Boston’s northern and western suburbs. The hospital offers comprehensive inpatient and outpatient medical, surgical, obstetrical, and psychiatric services. Mount Auburn has a strong surgical orientation in general and vascular surgery, surgical oncology, and colorectal surgery.

— SIGNATURE HEALTHCARE BROCKTON HOSPITAL
Signature Healthcare Brockton Hospital is the oldest and largest inpatient facility in Brockton, Massachusetts and 21 surrounding towns. With 245 beds, the hospital provides medical/surgical, pediatric, and obstetrics services. For the intern and mid-level resident, this rotation offers excellent operative experience in general and vascular surgery.

— CAMBRIDGE HOSPITAL AND HEALTH ALLIANCE
Cambridge Hospital is a 169-bed, acute-care hospital located in Cambridge. Its ambulatory care division offers medical/surgical emergency rooms, a Level 2 Trauma Center, a primary care center, and more than 25 specialty clinics. Residents assigned to Cambridge Hospital gain experience with serious surgical problems in an urban hospital and extensive training in endoscopy, as well as ambulatory surgery experience.

— SAINT VINCENT HOSPITAL
Saint Vincent Hospital, a 348-bed acute care hospital located in the new Worcester Medical Center, has a longstanding reputation for providing quality care for residents of central Massachusetts. The hospital includes general surgery as well as vascular surgery, cardiothoracic surgery, neurosurgery, plastic surgery, ophthalmology, otolaryngology, urology, and oral surgery. Trainees at the chief resident level can expect substantial complexity in general, vascular, and thoracic surgical procedures at Saint Vincent.
Didactic Teaching
The residency program has dedicated education time, including a strong didactic conference schedule, to provide a basic foundation of surgical knowledge and skills. The core curriculum didactics are based on the SCORE® curriculum, to which each resident has full access. In addition to a range of conferences that are unique to each clinical service, there are a number of additional department-wide conferences focused on resident education.

Regular weekly conferences include:
Tuesdays: Core Curriculum Conference, including ABSITE® review
Wednesdays: Surgical Service Morbidity and Mortality Surgical Grand Rounds

Regular monthly conferences include:
Mondays: Surgical Horizons Seminar Series
Wednesdays: Chairman’s Conference

State-of-the-Art Simulation and Skills Center
In 2006, the Carl J. Shapiro Simulation and Skills Center (SASC) at Beth Israel Deaconess Medical Center became the first regional Simulation and Skills Center in North America accredited by the American College of Surgeons. The SASC offers the latest advances in medical simulation technology combined with progressive teaching methods to replicate real-life patient-care situations, from routine procedures to acute management crises. The scale and scope of the SASC make it one of the most comprehensive centers in the country. In addition to high-fidelity mock operating and intensive care unit rooms, the SASC features two skills lab areas, providing

“I’M VERY FORTUNATE TO HAVE trained at BIDMC, where I had fantastic mentors and a broad experience with many high-risk, high-acuity patients. When I went into combat, I felt so well-trained that I was able to walk into the OR without fear and get to work.”

— Jeremy W. Cannon, MD (2005), Trauma, Critical Care, and Emergency Surgery, University of Pennsylvania; and recipient of the U.S. Air Force 2011 Paul W. Myers Award
learners with hands-on training for basic clinical procedures; open surgical skills; and endoscopic, ultrasonography, and laparoscopic skills.

In the SASC, residents have the opportunity to learn and practice skills that are specific to their rotation through skills sessions. During the PGY-1 year, interns attend an additional 75 hours of practical skills sessions taught by BIDMC faculty members and senior residents. These sessions include: laparoscopic skills, central line training, and chest tube training. PGY-2 residents have monthly skills sessions.

**Distinguished Visiting Professors**
As part of our commitment to surgical education, the Department of Surgery invites a dozen or more distinguished national leaders in surgery as visiting professors each year. During their tenure, each visiting professor has the opportunity to interact closely with surgical residents in small group forums. Visiting professors also present at Grand Rounds, providing faculty and residents with the opportunity to gain insight into their areas of expertise.

**Surgical Horizons Seminar Series**
Emerging and senior leaders from both surgical and non-surgical disciplines who are currently pursuing endeavors that promise to dramatically alter the landscape of care for surgical patients are invited to speak as part of our monthly Surgical Horizons Seminar Series. Topics range from medical device development to bioengineering, stem cell therapy, immunotherapy, tissue engineering and biomaterials, and drug design.

**Affinity Research Collaboratives**
Affinity Research Collaboratives (ARC) are aimed at promoting interdisciplinary basic, translational, and clinical research among faculty and residents who share a common research interest. Ongoing ARCs are in the area of metabolism and cancer, stroke, wound healing, bioengineering, and innate immune activation in surgery.

**Clinical Scholarship Program**
Our Clinical Scholarship Program pairs all first-year categorical general surgery residents with a faculty research mentor who guides the residents throughout the year as they acquire the skills to develop and implement a clinical research project. Residents are given one month of protected time during the second half of the first year in which to complete their project. The objectives of the Clinical Scholarship Program are to provide residents with a robust foundation for scholarship early in their training, increase their academic productivity, and enhance their opportunities to compete for national grants.
By providing this experience early in the training program, our goal is to facilitate residents’ interests in scholarship, research, and an academic career.

**Surgical Outcomes Analysis & Research**

Surgical Outcomes Analysis & Research (SOAR) is the virtual and physical epicenter of clinical research within the Department of Surgery. Co-led by three experienced clinical investigators, SOAR offers access to resources and expertise in one location for residents and faculty interested in, or currently engaged in, clinical research. SOAR provides: access to experienced clinical investigators who serve as mentors and facilitators; an environment in which to share ideas, present abstracts, and receive feedback; information about and access to biostatisticians, research analysts, and other experienced research personnel; assistance with grant applications and funding opportunities; access to potential collaborators; and a place to discover resources and find solutions to challenges through informal conversations and networking. In addition, in collaboration with the Clinical Scholarship Program, SOAR hosts two informal monthly meetings where research projects are discussed and ideas are shared.

**Research and Innovation in Surgical Education**

Research and Innovation in Surgical Education (RISE) is an initiative for residents and faculty to discuss, develop, and conduct surgical education research. Meeting quarterly, members of the group present project updates, determine next steps, and discuss innovative papers or educational projects. Occasional guest speakers round out the experience by providing insight into their areas of educational expertise.

**Resident as Educator Program**

Throughout training, a primary responsibility of senior residents is to teach more junior surgical residents and medical students on their service. Senior residents are also responsible for assigning cases, clinically supervising medical students and residents, and preparing material for service and teaching conferences. Our Resident as Educator Program facilitates and supports the development of our residents as outstanding surgeon-educators. Senior residents are encouraged to apply for admission to the BIDMC Academy of Medical Educators.

The Resident as Educator Program curriculum includes three components:

**Seminars**

Interactive, team-based learning seminars are held using a “flipped classroom” approach. The goal of these sessions is to introduce the theory and practice of adult teaching and learning, including bedside and intraoperative teaching that promotes the transmission of clinical and technical knowledge, behavior, and skills.

**Self-study**

A multidisciplinary curriculum includes a series of five videos and an accompanying facilitator guide that reviews effective adult learning principles with the following goals: review knowledge, skills, and methods associated with best clinical teaching practices; encourage application of adult learning principles in any clinical setting; and develop experience serving in supervisory roles; providing effective feedback, leading small-group discussions, and teaching procedural skills to medical students and resident colleagues.
Dedicated Teaching Experience
Each senior resident has a general surgery rotation during which a portion of time is dedicated to training residents and students.

BIDMC Academy of Medical Educators
The BIDMC Academy of Medical Educators is an important forum for residents interested in medical education. Open to senior residents at or above the PGY-3 level, Academy membership provides the opportunity to participate in professional development seminars, engage in collaborative projects, and take advantage of educational services for the advancement of innovation and science in medical education. Academy offerings include workshops on the flipped classroom, navigating educational change, and providing feedback to the difficult learner.

Mount Desert Island Biological Laboratory: Comparative Physiology
Mount Desert Island Biological Laboratory (MDIBL) is a non-profit marine biology lab in Maine where permanent and visiting scientists and students study marine and non-marine organisms to learn about the basic biology of life. Five PGY-2 residents are selected each year to receive a scholarship to attend a weeklong course in comparative clinically focused physiology, which covers topics including cardiac augmentation, water balance, chloride secretion, biliary function, vascular tone, and hematology. The course also allows time for exploring the Maine coastline, including nearby Acadia National Park.

Anatomical Basis of General Surgery
This course, taught by Harvard Medical School’s Director of Clinical Applications of Anatomy Course in conjunction with BIDMC surgical faculty, provides PGY-3 residents with a solid foundation in the anatomical basis of all aspects of general surgery. Through 10 sequential cadaver laboratories, each focusing on a different aspect of anatomy, residents will acquire the in-depth anatomical knowledge, techniques of exposure, and skills required of a general surgeon.

Harvard Program in Global Surgery and Social Change
The mission of the Harvard Program in Global Surgery and Social Change (PGSSC) is to achieve excellence and equity in global surgical and anesthesia care through leadership and innovation in education, training, research, clinical care, and advocacy. Projects undertaken by the PGSSC consist of sustainable efforts to improve delivery of quality surgery and anesthesia in low- and middle-income countries in the Americas, Africa, and the Caribbean. Through the Paul Farmer Global Surgery Research Fellowship, surgical residents are able to obtain the medical and non-medical skills they need to improve the health of some of the world’s most impoverished people. Interested fellows may incorporate a Masters of Public Health degree during their fellowship. John G. Meara, MD, DMD, MBA, is the Director of the Harvard PGSSC within the Department of Global Health and Social Medicine at Harvard Medical School and Chief of Plastic and Oral Surgery at Boston Children’s Hospital.
Research
Beth Israel Deaconess Medical Center ranks among the top three recipients in National Institutes of Health funding among independent hospitals nationwide. With nearly $14 million per year in extramural (direct and indirect) research support, the Department of Surgery ranks among the top five academic surgical departments in NIH funding. With faculty appointments at Harvard and MIT, our surgical faculty are members of the Harvard Stem Cell Institute, the Wyss Institute of Biologically Inspired Engineering, the Harvard-MIT Broad Institute, the Harvard Program in Global Surgery and Social Change, and the Center for Integration of Medicine and Innovative Technology (CIMIT).

Following the third clinical year, residents are required to pursue a two-year research elective in any number of available areas that include basic science or clinical outcomes. It is also possible for residents to seek advanced degrees in public health, business administration, or education. The Department of Surgery has agreed to support tuition for one individual annually to pursue a master’s degree in any of the Harvard schools of graduate education. This is a competitive process that is awarded to the resident proposing the most meritorious project.

These opportunities are intended to teach residents the requisite skills to become leaders in academic surgery and make an impact early in their careers. BIDMC surgery residents have been very successful in obtaining high-quality research and clinical fellowships in Boston and nationwide.

Residents are candidates for support by one of three mechanisms:
- Four NIH-funded NRSA training grants (Surgical Critical Care, Gastrointestinal Diseases, Vascular Surgery, and Transplantation)
- A principal investigator in Surgery may support the salary for two fellowship years
- A prospective fellow and principal investigator may apply for the NRSA fellowship grant from the NIH or apply for funding through many other mechanisms available to support fellowship research

Opportunities are also available for surgical housestaff during their clinical training to participate in clinical research conducted by members of the Department of Surgery.

“I was allowed and encouraged to pursue diverse and even ‘alternative’ projects during my research time. I was able to combine my interests in surgery, global health, legislative advocacy, and health policy and pursue an MPH at the Harvard School of Public Health.”

— Nakul Raykar, MD (2017), Paul Farmer Global Surgery Research Fellow
Program Division Chiefs

Acute Care Surgery, Trauma, and Surgical Critical Care
Charles H. Cook, MD
Associate Professor of Surgery, Harvard Medical School

Cardiac Surgery
Kamal R. Khabbaz, MD
Associate Professor of Surgery, Harvard Medical School

Colon and Rectal Surgery
Deborah A. Nagle, MD
Assistant Professor of Surgery, Harvard Medical School

General Surgery
Mark P. Callery, MD
Professor of Surgery, Harvard Medical School

Plastic and Reconstructive Surgery
Bernard T. Lee, MD, MBA
Associate Professor of Surgery, Harvard Medical School

Surgical Oncology
Jennifer F. Tseng, MD, MPH
Associate Professor of Surgery, Harvard Medical School

Thoracic Surgery/Interventional Pulmonology
Sidhu Gangadharan, MD
Associate Professor of Surgery, Harvard Medical School

Transplant Surgery
Robert A. Fisher, MD
Professor of Surgery, Harvard Medical School

Vascular and Endovascular Surgery
Marc L. Schermerhorn, MD
Associate Professor of Surgery, Harvard Medical School

Department Leadership

Elliot L. Chaikof, MD, PhD
Chair of Surgery and Surgeon-in-Chief
Johnson and Johnson Professor of Surgery, Harvard Medical School

Richard D. Cummings, PhD
Vice Chair, Basic and Translational Research
Member of the Faculty, Harvard Medical School

Allen D. Hamdan, MD
Vice Chair, Communications Associate Professor of Surgery, Harvard Medical School

Per-Olof Hasselgren, MD, PhD
Vice Chair, Research George H. A. Clowes Jr. Professor of Surgery, Harvard Medical School

Daniel B. Jones, MD
Vice Chair, Technology and Innovation Professor of Surgery, Harvard Medical School

Tara S. Kent, MD, MS
Vice Chair, Education Assistant Professor of Surgery, Harvard Medical School

Sidney Levitsky, MD
Senior Vice Chairman David W. and David Cheever Professor of Surgery, Harvard Medical School

James R. Rodrigue, PhD
Vice Chair, Clinical Research Professor of Surgery, Harvard Medical School

Richard Whyte, MD, MBA
Vice Chair, Quality, Safety, and Clinical Affairs Professor of Surgery, Harvard Medical School
Selected Research Programs

Acute Care Surgery, Trauma, and Surgical Critical Care
Charles H. Cook, MD
Bacterial sepsis and reactivation of latent cytomegalovirus

Carl J. Hauser, MD
Regulation of innate immunity in trauma with an emphasis on translational biology

Wolfgang G. Junger, PhD
Inflammatory responses to trauma

Michael B. Yaffe, MD, PhD
DNA damage and trauma

Cardiac Surgery
Kamal R. Khabbaz, MD
Transcatheter aortic valve replacement (TAVR), mitral valve repair, predictive markers of postoperative adverse events, 3D printing for cardiac repair

Center for Drug Discovery and Translational Research
Lijun Sun, PhD
Design of new therapeutic compounds in the fields of oncology, immunology, and innate immunity. Dr. Sun has taken four compounds to phase 3 clinical trials

Colon and Rectal Surgery
Deborah A. Nagle, MD
Quality and safety in colorectal surgery

Vitaliy Y. Poylin, MD
Neuropeptides in the pathophysiology of inflammatory bowel diseases

Gastrointestinal and Hepatopancreatobiliary Surgery
Mark P. Callery, MD
Outcomes research in high-acuity pancreaticobiliary surgery

Susan J. Hagen, PhD
Cellular mechanisms in the development of gastric cancer

Tara S. Kent, MD, MS
Patient-centered outcomes research in high-acuity pancreaticobiliary surgery

A. James Moser, MD
Multi-center research study of biomarker discovery for therapeutics in pancreatic cancer

Ranjna Sharma, MD
Diagnostic and therapeutic strategies in breast cancer

Jennifer F. Tseng, MD, MPH
Predicting risk for hepatopancreatobiliary and upper GI malignancy and related diseases

Barbara Wegiel, PhD
Heme degradation pathway and the cytoprotective protein heme oxygenase-1 in the development and prevention of cancer

Michael B. Yaffe, MD, PhD
Cell signaling: Approaches to targeted cancer therapy

Jin-Rong Zhou, PhD
Mechanisms of nutraceutical components on the prevention and treatment of cancer

Glycobiology
Richard D. Cummings, PhD
Glycobiology of cancer, inflammation, and infectious disease
Metabolism and Obesity
George Blackburn, MD, PhD
Nutrition and clinical interventions for cancer, hypertension, diabetes, and obesity

Daniel B. Jones, MD
Comparative effectiveness and outcomes of bariatric surgery; evaluation of new clinical interventions for the treatment of obesity; simulation in surgical education

Plastic and Reconstructive Surgery
Bernard T. Lee, MD, MBA
Near-infrared imaging technologies for flap perfusion in face transplantation models; clinical outcomes and patient satisfaction in breast reconstruction surgery

Samuel J. Lin, MD, MBA
Microelectromechanical systems devices for peripheral nerve modulation; clinical outcomes in breast reconstruction and cosmetic surgery

Transplant Surgery
Amy Evenson, MD
Clinical outcomes in abdominal transplantation, hepatobiliary surgery, and dialysis access

Robert A. Fisher, MD
Hepatocyte transplantation for fulminate hepatic failure, living donor liver transplantation, liver cancer treatment

Maria Koulmanda, PhD
Molecular and cellular basis of tolerance to islet allograft and xenograph rejection

Leena Pradhan-Nabzdyk, PhD, MBA
Mechanisms of prosthetic arterial graft failure and prevention of intimal hyperplasia in vein grafts; role of neuropeptides in diabetic wound healing

Terry Strom, MD
The development of new approaches and strategies for the induction of tolerance in transplantation and autoimmune diseases

Vascular and Endovascular Surgery
Elliot L. Chaikof, MD, PhD
Thrombosis, atherosclerosis, biologically inspired materials and drugs, tissue engineering

Mauricio A. Contreras, MD
Developing novel biomaterial surfaces

Christiane C. Ferran, MD, PhD
Role of A20 in organ transplantation, diabetes, atherosclerosis, and hepatitis

Frank W. LoGerfo, MD
Developing novel biomaterial surfaces; mechanisms of prosthetic arterial graft failure and prevention of intimal hyperplasia in vein grafts; role of neuropeptides in diabetic wound healing

Marc L. Schermerhorn, MD
Re-engineering the delivery of care for patients with vascular disease; comparative effectiveness of surgery and endovascular therapy for treatment of vascular disease

Aristidis Veves, MD, DSc
Mechanisms of microvascular disease, wound healing, and peripheral neuropathy in diabetes
About Boston

Founded in 1630, Boston is rich in history and culture. The city is an academic center with more than 100 colleges and universities, and a center of technology, with more than 3,000 computer and biotech businesses. Boston is also home to three medical schools and more than 20 hospitals.

Boston offers historic sites, beautiful parks, world-class museums, a renowned symphony orchestra, excellent dining, a diverse population, and five professional sports teams. For more information about Boston, please visit www.visitboston.org or www.bostonusa.com.
Houseofficer Salaries and Benefits
Resident salaries are similar for all members of the Council of Boston Teaching Hospitals; rates are adjusted annually to account for cost of living. Training conditions and work schedules follow the guidelines of the Residency Review Committee for Surgery of the Accreditation Council on Graduate Medical Education.

The program provides a wide range of benefits, including malpractice insurance coverage, on-call meals, and short- and long-term disability insurance. The program also offers the opportunity to purchase several types of health, dental, and life insurance. Each resident is allotted three weeks of vacation per year; all chief residents are allotted travel to one conference. In addition, the program has a liberal leave of absence policy for residents who are new parents, require medical leave, or need to care for a seriously ill family member.

Licensure
All residents and clinical fellows appointed to the Beth Israel Deaconess Surgical Service must have either a current limited license or a full license to practice medicine in the Commonwealth of Massachusetts. Applications for the limited license may be obtained from the Surgery Education office. Limited licenses must be renewed every year, up to a maximum of five years. The cost of the license is $100 annually.

Applications for full licensure should be made directly to the Massachusetts Board of Registration in Medicine, 200 Harvard Mill Square, Suite 330, Wakefield, MA 01880; mass.gov/massmedboard.org.

Application Process and Deadline
The Beth Israel Deaconess Medical Center Surgical Residency Program participates in the Electronic Residency Application Service (ERAS). The program selects interns through the National Resident Matching Program (NRMP) in accordance with the policies established by the NRMP.

“The culture was intensely focused on providing the best patient care possible and I’ve always tried to maintain that focus.”
— Richard Hodin, MD (1990), Chief for Academic Affairs of the Department of Surgery; Surgical Director, MGH Center for Inflammatory Bowel Disease; Chief of Endocrine Surgery, Massachusetts General Hospital; Professor of Surgery, Harvard Medical School