

Department of Surgery
Boston University Chobanian & Avedisian School of Medicine/Boston Medical Center
ANNUAL REPORT 2024

The Power and Promise of Teamwork



Boston University Chobanian & Avedisian School of Medicine



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The Department of Surgery

By the Numbers

14 Clinical Divisions/Sections

67 Faculty

1 ACGME-Accredited Surgical Residency

1 CPME-Accredited Podiatric Surgery Residency

47 Interns and Residents

2 ACGME-Accredited Surgical Fellowships

5 Fellows

6,677 Operations*

70,356 Outpatient Visits*

The 2023–2024 Boston Medical Center general surgery chief residents, flanked by their co-residents and faculty

*July 1, 2023–June 30, 2024



Message from the Chair



The Department of Surgery at Boston Medical Center (BMC) has been my home for almost 20 years. Since day one, I have felt a deep camaraderie with the faculty, trainees, and staff—the committed team—that powers our equity-led medical center. On countless occasions I have seen colleagues go above and beyond to take the best care of our patients. In my two decades at BMC and Boston University Chobanian & Avedisian School of Medicine (BUCASM), I have held a number of roles, and I am honored to accept a new one. As this report went to press in October 2024, I was named Surgeon-in-Chief at BMC and James Utley Professor and Chair of Surgery at BUCASM. Prior to my appointment, I served as interim Chief and Chair and am pleased to have the opportunity to share some of our department's many achievements over the past year in this report.

October also saw another significant event, this one at the BMC level. On October 1, we officially welcomed St. Elizabeth's Medical Center and Good Samaritan Medical Center to the Boston Medical Center Health System. This is an exciting development, which expands our mission into the community. Many details are still being ironed out, as the acquisition of these two hospitals took place at an accelerated pace following the bankruptcy of their former owner, Steward Health Care.

We are working strategically and thoughtfully on multiple fronts to support priorities in patient care, research, and education, while ensuring that we foster an inclusive environment that respects and values all. For 150 years, we have served the residents of the city of Boston and beyond and are proud to continue this legacy, while focusing on advances that enable us to provide high-quality, compassionate care in the most efficient manner.

One highlight of the last year, featured in this report, occurred just prior to the academic year close. On June 29, 2024, the first patient in Massachusetts to receive a life-saving, prehospital whole blood transfusion was transported to BMC. In collaboration with the Canton Fire Department, we are excited to launch this very promising pilot program, spearheaded by trauma surgeon Crisanto Torres, MD, MPH. Research by Dr. Torres recently published in *JAMA Surgery* has strengthened the evidence base demonstrating the safety and efficacy of whole blood transfusion, which is increasingly becoming the standard of care for traumatic injury and acute blood loss.

Also in 2024, BMC was pleased to be recognized for high performance in Heart & Vascular Surgery, GI Surgery, and Lung Surgery in the *U.S. News & World Report Best Hospitals* rankings. The Department of Surgery has a wealth of talent to carry us forward, and we were happy to build on this through the recruitment of new faculty in several divisions. To meet ever-growing surgical volume, construction of five new operating rooms is underway and will be complete by next summer.

This report also highlights the dedicated faculty in the always bustling Division of Podiatric Surgery, as well as the strong multidisciplinary teamwork taking place in the surgical intensive care unit to reduce patient ventilator days. We also spotlight one of our distinguished alums, 2009 BMC General Surgery Residency graduate Cary Aarons, MD, MSEd, as well as our Surgery Internship Prep Course, which brings together more than 60 educators to prepare fourth-year medical students for their first year of residency.

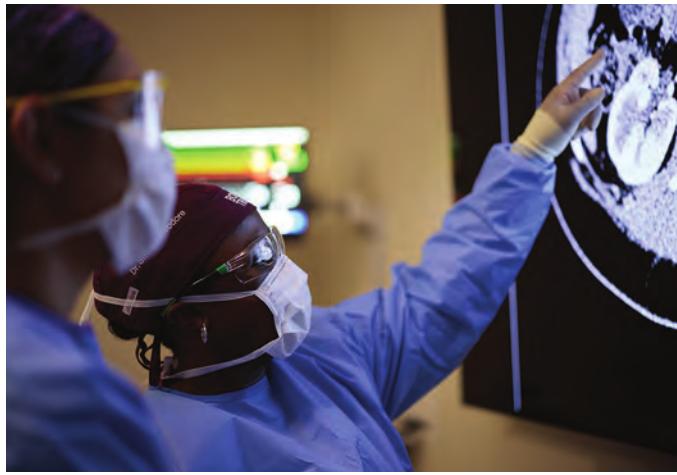
Our patients inspire us every day, and our accomplishments are only possible because of the hard work and teamwork of our faculty, residents, and staff.

A handwritten signature in black ink that reads "Alik Farber". The signature is fluid and cursive, with a distinct "A" and "F".

Alik Farber, MD, MBA

James Utley Professor and Chair of Surgery, Boston University
Surgeon-in-Chief, Boston Medical Center





The Department of Surgery

The Department of Surgery has historic roots that extend back 150 years. In 1873, Boston University School of Medicine (now Boston University Chobanian & Avedisian School of Medicine) opened its doors, combining the New England Female Medical College with the medical staff of the Massachusetts Homeopathic Hospital. Since then, we have trained scores of surgeons and have made innumerable contributions in clinical care, education, and research.

Today, the department comprises 14 divisions and sections and includes more than 60 faculty members who provide the full spectrum of adult and pediatric surgical care and teach our residents, fellows, and medical students at Boston Medical Center (BMC) and affiliated institutions. The largest safety-net hospital in New England, BMC is the primary teaching affiliate for the Chobanian & Avedisian School of Medicine. BMC operates 67 residency training programs, with more than 600 resident and fellowship positions.

A well-established relationship with Boston Children's Hospital provides shared faculty in pediatric critical care and pediatric surgery, as well as pediatric training for residents. The department also has affiliated faculty members from Roger Williams Medical Center, the Veterans Administration (VA) Boston Healthcare System, Cape Cod Hospital (Cape Cod Healthcare), and St. Elizabeth's Medical Center. These institutions are valued partners in teaching and training medical students and residents. Three other hospitals also actively participate in the third-year surgery clerkship: Berkshire Medical Center, MetroWest Medical Center, and Kaiser Permanente Santa Clara.

Department Leadership



Alik Farber, MD, MBA

*James Utley Professor and Chair of Surgery,
Boston University
Surgeon-in-Chief, Boston Medical Center*



Jennifer Davids, MD

Interim Associate Chair for Clinical Operations



Kevin T. Hart, MBA

*Senior Administrative Director
Departments of Surgery and Urology*



Donald Hess, MD

*Associate Chair for Education
Program Director for Surgery Residency*



Kelly Kenzik, PhD, MS

Associate Chair for Research



Sabrina Sanchez, MD, MPH

*Associate Chair for Faculty Development
and Diversity*



Jeffrey Siracuse, MD, MBA

Associate Chair for Quality and Patient Safety

Division and Section Leadership



Tracey Dechert, MD
Chief, Section of Acute Care and Trauma Surgery



Ewald Mendeszoon, DPM
Chief, Division of Podiatric Surgery



Noelle Saillant, MD
Chief, Section of Surgical Critical Care



Teviah Sachs, MD, MPH
Chief, Section of Surgical Oncology



Alexandros Karavas, MD
Interim Chief, Division of Cardiac Surgery



F. Thurston Drake, MD, MPH
Chief, Section of Endocrine Surgery



Jennifer Davids, MD
Chief, Section of Colon and Rectal Surgery



Laurence Brinckerhoff, MD
Chief, Division of Thoracic Surgery



Donald Hess, MD
Chief, Division of General Surgery
Chief, Section of Minimally Invasive
and Weight Loss Surgery



Jeffrey Cooper, MD
Chief, Division of Transplant Surgery



Christopher Muratore, MD
Chief, Section of Pediatric Surgery



Alik Farber, MD, MBA
Chief, Division of Vascular and
Endovascular Surgery



Jaromir Slama, MD
Chief, Division of Plastic and
Reconstructive Surgery

Faculty

DEPARTMENT OF SURGERY FACULTY

Acute Care and Trauma Surgery/ Surgical Critical Care

Tracey Dechert, MD
Section Chief
Associate Professor of Surgery,
Boston University

Noelle Saillant, MD
Section Chief, Surgical Critical Care
Associate Professor of Surgery,
Boston University

Lisa Allee, MSW, LICSW
Assistant Professor of Surgery,
Boston University

Peter Burke, MD
Professor of Surgery, Boston University

Abraham Jaffe, MD
Assistant Professor of Surgery,
Boston University

Megan Janeway, MD
Assistant Professor of Surgery,
Boston University

Danby Kang, MD
Assistant Professor of Surgery,
Boston University

Aaron Richman, MD
Assistant Professor of Surgery,
Boston University

Sabrina Sanchez, MD, MPH
Associate Professor of Surgery,
Boston University

Dane Scantling, DO
Assistant Professor of Surgery,
Boston University

Sheina Theodore, MD
Assistant Professor of Surgery,
Boston University

Crisanto Torres, MD, MPH
Assistant Professor of Surgery,
Boston University

Kathryn Twomey, MD
Assistant Professor of Surgery,
Boston University

Cardiac Surgery

Alexandros Karavas, MD
Interim Division Chief
Assistant Professor of Surgery,
Boston University

Morgan Harloff, MD
Assistant Professor of Surgery,
Boston University

Colon and Rectal Surgery

Jennifer Davids, MD
Section Chief
Associate Professor of Surgery,
Boston University

Olga Beresneva, MD
Assistant Professor of Surgery,
Boston University

Samantha Rivard, MD
Assistant Professor of Surgery,
Boston University*

Minimally Invasive and Weight Loss Surgery

Donald Hess, MD
Section Chief
Associate Professor of Surgery,
Boston University

Brian Carmine, MD
Assistant Professor of Surgery,
Boston University

Joshua Davies, MD
Assistant Professor of Surgery,
Boston University

Jacob Nudel, MD
Assistant Professor of Surgery,
Boston University

Luise Pernar, MD, MHPE
Associate Professor of Surgery,
Boston University

Pediatric Surgery

Christopher Muratore, MD
Section Chief
Clinical Professor of Surgery,
Boston University

Plastic and Reconstructive Surgery

Jaromir Slama, MD
Division Chief
Assistant Professor of Surgery,
Boston University

William Kelly Collins III, MD, MBA
Assistant Professor of Surgery,
Boston University

Jorge Lujan, MD
Assistant Professor of Surgery,
Boston University

Daniel Roh, MD, PhD
Assistant Professor of Surgery,
Boston University

Podiatric Surgery

Ewald Mendeszon, DPM
Division Chief
Assistant Professor of Surgery,
Boston University

Ashley Daniel, DPM, MBS
Instructor of Surgery,
Boston University

Justin Ogbonna, DPM
Assistant Professor of Surgery,
Boston University

Hau Pham, DPM
Research Director
Assistant Professor of Surgery,
Boston University

Elizabeth Sanders, DPM
Assistant Professor of Surgery,
Boston University

Wei Tseng, DPM
Assistant Professor of Surgery,
Boston University

Vitaliy Volansky, DPM
Assistant Professor of Surgery,
Boston University

Surgical Oncology and Endocrine Surgery

Teviah Sachs, MD, MPH

Section Chief, Surgical Oncology
Associate Professor of Surgery,
Boston University

F. Thurston Drake, MD, MPH

Section Chief, Endocrine Surgery
Associate Professor of Surgery,
Boston University

Michael R. Cassidy, MD

Medical Director, Belkin Breast Health Center
Associate Professor of Surgery,
Boston University

Alaina Geary, MD, MHPE

Assistant Professor of Surgery,
Boston University*

David McAneny, MD

Chief Medical Officer, Boston Medical Center
Professor of Surgery, Boston University

Thoracic Surgery

Laurence Brinckerhoff, MD

Division Chief
Clinical Associate Professor of Surgery,
Boston University

Christopher Digesu, MD

Assistant Professor of Surgery,
Boston University

Transplant Surgery

Jeffrey Cooper, MD

Division Chief
Clinical Professor of Surgery,
Boston University*

Aman Kumar, MD

Assistant Professor of Surgery,
Boston University

Vascular and Endovascular Surgery

Alik Farber, MD, MBA

James Utley Chair of Surgery, Boston University
Surgeon-in-Chief, Boston Medical Center
Division Chief
Professor of Surgery and Radiology,
Boston University

Jeffrey Kalish, MD

Associate Professor of Surgery and Radiology, Boston University

Elizabeth King, MD

Assistant Professor of Surgery and Radiology, Boston University

Jeffrey Siracuse, MD, MBA

Professor of Surgery and Radiology,
Boston University

Surgical Research and Education

Erica Brotschi, MD

Associate Professor of Surgery,
Boston University

Andrea Geisz, PhD, MS

Laszlo Tauber Assistant Professor of Surgery

Kelly Kenzik, PhD, MS

Associate Chair for Research
Associate Professor of Surgery,
Boston University

Marina Malikova, PhD, MSci, MA, MBA

Executive Director, Surgical Translational Research
Assistant Professor of Surgery,
Boston University

Pamela Rosenkranz, RN, BSN, MEd

Assistant Professor of Surgery,
Boston University

Vivian E. Sanchez, MD

Assistant Professor of Surgery and Assistant Dean for Student Affairs,
Boston University

* Recommended for



Faculty

Emeritus

Robert Beazley, MD

Professor Emeritus of Surgery,
Boston University

Benedict Daly, MD

Professor Emeritus of Surgery,
Boston University

Amitabh Gautam, MD

Assistant Professor Emeritus of
Surgery, Boston University

Andrew Glantz, MD

Associate Professor Emeritus of
Surgery, Boston University

Karl Karlson, MD

Assistant Professor Emeritus of
Surgery, Boston University

Maureen Kavanah, MD

Assistant Professor Emeritus of
Surgery, Boston University

John Polk, MD

Assistant Professor Emeritus of
Surgery, Boston University

Jennifer Tseng, MD, MPH

Professor Emeritus of Surgery,
Boston University

CAPE COD HOSPITAL (CAPE COD HEALTHCARE)

Lawrence Novak, MD

Surgery Residency Site Director

Stephen Brooks, MD

Clinical Assistant Professor of Surgery,
Boston University

ROGER WILLIAMS MEDICAL CENTER

N. Joseph Espan, MD, MS

Chair, Department of Surgery,
Roger Williams Medical Center
Professor of Surgery, Boston University

Abdul Saeid Calvino, MD

Assistant Professor of Surgery,
Boston University
Associate Director, Boston University
Surgery Clerkship

Sung Kwon, MD, MPH, MBA

Associate Professor of Surgery,
Boston University*

Ponnandai Somasundar, MD

Associate Professor of Surgery,
Boston University

ST. ELIZABETH'S MEDICAL CENTER

Mark F. Conrad, MD, MMSc

Interim Chair of Surgery
Professor of Surgery, Boston University

Virginia Little, MD

Professor of Surgery, Boston University

Eduardo Vega, MD

Assistant Professor of Surgery,
Boston University
Associate Director, Boston University
Surgery Clerkship

VETERANS AFFAIRS (VA) BOSTON HEALTHCARE SYSTEM

General Surgery

Kamal Itani, MD

Chief of Surgery
Professor of Surgery, Boston University

Gentian Kristo, MD, MPH

Chief of Acute Care Surgery
Adjunct Clinical Instructor of Surgery,
Boston University
Associate Chief of Surgery for
Education and Site Director,
General Surgery Program

Patrick B. O'Neal, MD

Chief of Endocrine Surgery
Assistant Professor of Surgery,
Boston University
Associate Director, Boston University
Surgery Clerkship

Cardiac Surgery

Miguel Haime, MD

Assistant Professor of Surgery,
Boston University

Research

Hillary Mull, PhD, MPP

Associate Professor of Surgery,
Boston University

Amy Rosen, PhD

Professor of Surgery, Boston University

* Recommended for

Faculty News



Olga Beresneva, MD,

Colon and Rectal
Surgery, gave a podium
presentation at the
American College of
Surgeons Clinical
Congress and has been
appointed as an at-large member of the
executive council of the New England
Society of Colon and Rectal Surgeons.



Laurence Brinckerhoff,

MD, Chief of Thoracic
Surgery, was chosen by
the graduating chief
residents to receive the
Erwin F. Hirsch, MD,
Teaching Award.



Jennifer Davids, MD,

Chief of Colon and Rectal
Surgery, was promoted to
Senior Examiner for the
American Board of Colon
and Rectal Surgery, and
was also selected to be
the Society for Surgery of the Alimentary
Tract representative for the National
Accreditation Program for Rectal Cancer.



Tracey Dechert, MD,

Chief of Acute Care and
Trauma Surgery, was
elected Secretary of the
Association for Surgical
Education and gave
grand rounds on social
responsibility in surgery for the Department
of Surgery at the University of Pennsylvania.



Alik Farber, MD, MBA,

Chief of Vascular and
Endovascular Surgery and
Chair of Surgery, received
the Presidential Citation
from the Society for
Vascular Surgery in
recognition of his dedication to clinical
science and contributions made as co-
principal investigator of the BEST-CLI trial.



Alexandros Karavas, MD, interim Chief of Cardiac Surgery, moderated a session on novel approaches in endocarditis at the American College of

Cardiology Annual Meeting in Atlanta and co-authored papers published in the *Journal of Cardiothoracic and Vascular Anesthesia*, *Journal of Cardiothoracic Surgery*, and *Chest Critical Care*.



Marina Malikova, PhD, MSci, MA, MBA,

Executive Director of Surgical Translational Research, became Vice President of the North American chapter of the

International Society of Pharmacovigilance (ISoP) and chaired the scientific committee for the chapter's annual meeting. In addition, Dr. Malikova was an invited speaker at the ISoP annual meeting in Bali. She also made podium presentations at the annual SCOPE Summit for Clinical Ops Executives in Orlando and at the SCOPE global summit in Barcelona. Dr. Malikova served as a mentor for two trainees who made poster presentations at a national meeting in 2023. And over the course of the year, she published eight peer-reviewed articles in leading journals, including *Therapeutic Innovation & Regulatory Science*, *World Journal of Surgery*, and *Annals of Vascular Surgery*.



David McAneny, MD, Endocrine Surgery and Chief Medical Officer of Boston Medical Center, was awarded the Nathan Smith Distinguished Service Award at the

annual meeting of the New England Surgical Society in 2023. In addition, Dr. McAneny was once again chosen to be included in the listing of America's Top Doctors.



Luise Pernar, MD, MHPE, Minimally Invasive and Weight Loss Surgery, was appointed to the Fellowship Council Accreditation Committee. Dr. Pernar co-authored

four papers, published in *Journal of Surgical Education* and *JAMA Surgery*, and also authored an invited commentary for *JAMA Surgery*. In addition, she was a guest on a Behind the Knife podcast entitled *Surgical M&M: Can We Do Better?*



Daniel Roh, MD, PhD,

Plastic and Reconstructive Surgery, received a Paul B. Beeson Emerging Leaders Career Development Award in Aging from the National

Institute on Aging (NIA) to support his research on wound healing and cellular senescence. In addition, he received a grant from the Hevolution Foundation, which has previously supported his research. Dr. Roh is co-principal investigator with Jeroen Eyckmans, PhD, Boston University Research Assistant Professor, on this grant to explore the impact of the extracellular matrix on impaired wound healing in aging. Dr. Roh also serves as a co-investigator on two new grants awarded by the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS). He was invited to be a grant reviewer for study sections of NIAMS, NIA, and the Plastic Surgery Foundation. Dr. Roh was an invited speaker at the International Cell Senescence Association Conference in 2023 and published peer-reviewed articles in the *Journal of Investigative Dermatology* and *Arthritis & Dermatology*.



Noelle Saillant, MD, Chief of Surgical Critical Care, received a grant from the Massachusetts Institute of Technology/Department of Defense Combat Casualty Care

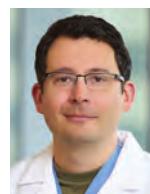
Research Program to further her research on using the Field Artificial Intelligence Triage tool to predict injuries created by gunshot wounds and develop a decision tree for treatment of these injuries in the field. Dr. Saillant also published seven peer-reviewed papers and co-authored three chapters.



Elizabeth Sanders, DPM,

Podiatric Surgery, lectured both locally and nationally on diabetic foot care, limb salvage, and Achilles tendinopathy, and

authored an article published in *Annals of Vascular Surgery*. Dr. Sanders was selected to chair the Boston University Medical Group Engagement Committee.



Dane Scantling, DO, MPH,

Acute Care and Trauma Surgery, received the C. James Carrico, MD, FACS, Faculty Research Fellowship for the Study of Trauma and

Critical Care from the American College of Surgeons (ACS) and became a fellow of the ACS. He also received an NIH Loan Repayment Program Health Disparities Award and funding from the Gillian Reny Stepping Strong Center for Trauma Innovation. In addition, Dr. Scantling served as co-chair of the Eastern Association for the Surgery of Trauma (EAST) Research-Scholarship Committee. Over the course of the year, he published 15 articles in *JAMA Surgery* and other high-impact journals and served as a mentor for residents and medical students who gave podium presentations at the ACS Clinical Congress and the EAST and American Association for the Surgery of Trauma annual meetings.



Top Doctors

Congratulations to the following Department of Surgery faculty members who were recognized in Boston magazine's 2024 Top Doctors issue.

Laurence Brinckerhoff, MD

Chief of Thoracic Surgery

Jennifer Davids, MD

Chief of Colorectal Surgery

F. Thurston Drake, MD, MPH

Chief of Endocrine Surgery

Alik Farber, MD, MBA

Chair of Surgery and

Surgeon-in-Chief;

Chief of Vascular and

Endovascular Surgery

Donald Hess, MD

Chief of Minimally Invasive

and Weight Loss Surgery;

Chief of General Surgery

Jeffrey Kalish, MD

Vascular and Endovascular Surgery

David McAneny, MD

Endocrine Surgery and

Chief Medical Officer,

Boston Medical Center

Jaromir Slama, MD

Chief of Plastic and

Reconstructive Surgery



Jeffrey Siracuse, MD, MBA, Vascular and Endovascular Surgery, was editor of a special issue of *Annals of Vascular Surgery* devoted to peripheral artery disease. Dr. Siracuse

was a visiting professor at McGill University and Beth Israel Deaconess Medical Center and gave multiple talks at national meetings, including the Society for Vascular Surgery and Society of Clinical Vascular Surgery annual meetings and the American College of Surgeons Clinical Congress. Dr. Siracuse was appointed Associate Chair for Quality and Patient Safety in the Department of Surgery at Boston Medical Center. In addition, he received an award from the Boston University Clinical Translational Science Institute to fund research on a soft robotic catheter for non-compressible torso hemorrhage. As site principal investigator at BMC for a clinical trial focused on stem cell treatment for no-option critical limb threatening ischemia, he began enrolling patients at BMC. Over the course of the year, Dr. Siracuse co-authored 30 peer-reviewed articles.



Crisanto Torres MD, MPH, Acute Care and Trauma Surgery, gave two invited national talks and published 14 peer-reviewed manuscripts, six as first or senior author, in journals that included *JAMA Surgery*, *Journal of the American College of Surgeons*, and *Journal of Trauma and Acute Care Surgery*. Dr. Torres was first author of a paper in the *Journal of Trauma and Acute Care Surgery* that was selected as an "Editor's Choice Best of Surgical Critical Care" article.



Kathryn Twomey, MD, Acute Care and Trauma Surgery, was nominated and selected as a peer supporter through the Boston Medical Center Peer Support Program.

She is trained to provide emotional support for clinical and ancillary staff in the Departments of Surgery and Anesthesia facing work- or life-related stressors. In addition, she now serves as co-advisor for the Association of Women Surgeons chapter at the Boston University Chobanian & Avedisian School of Medicine.



Vitaliy Volansky, DPM, Podiatric Surgery, was Boston Medical Center site principal investigator for four industry-sponsored clinical trials focused on wound care

and served as a mentor to trainees who made poster presentations at the Symposium on Advanced Wound Care in Las Vegas.

Boston University Chobanian & Avedisian School of Medicine Promotions



Michael Cassidy, MD
Associate Professor of Surgery



Donald Hess, MD
Associate Professor of Surgery

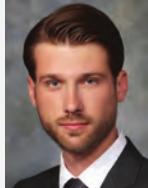
New Faculty



Ashley Daniel, DPM, MBS

Instructor of Surgery,
Boston University
Podiatric Surgery

Dr. Daniel is a Boston native who received her undergraduate degree from the Massachusetts College of Pharmacy and Health Sciences and earned a master's degree in biomedical science from Geisinger Commonwealth School of Medicine. She obtained her doctor of podiatric medicine degree from Barry University School of Podiatric Medicine in Miami. Dr. Daniel completed podiatric surgery residency at Boston Medical Center (BMC) and is board certified by the American Board of Podiatric Medicine. She was in private practice before being recruited back to BMC in 2024.



Morgan Harloff, MD

Assistant Professor of
Surgery, Boston University
Cardiac Surgery

Dr. Harloff received his undergraduate degree in biology from the University of Michigan and his medical degree in 2014 from Kaohsiung Medical University in Taiwan. In 2024, Dr. Harloff completed the six-year Cardiothoracic Surgery Integrated Residency Program at Brigham and Women's Hospital. During residency, he was the recipient of a Partners in Excellence Award in the category of Commitment to an Exceptional Patient Experience. Dr. Harloff has been very active in the research realm, with a significant focus on multiple aspects of valve replacement surgery. He has published 45 peer-reviewed articles in top journals in his field.



Aman Kumar, MD

Assistant Professor of
Surgery, Boston University
Transplant Surgery

Dr. Kumar received his medical degree from Grant Medical College in Mumbai, India, and completed residency

at the affiliated Sir J.J. Group of Hospitals. In 2022, he completed his post-doctoral training as a transplant surgery fellow at the University of North Carolina (UNC) School of Medicine, and then became an attending surgeon at UNC performing liver, kidney, and pancreas transplants; laparoscopic donor nephrectomies; and hepato-pancreato-biliary surgeries. He has a special interest in total pancreatectomy and autologous islet cell transplant (TPAIT). Active in research, Dr. Kumar has participated in clinical trials looking at everything from vascular staples in donor surgeries to the use of social media in organ donor referrals. He has presented his research at multiple national and international meetings.



Jacob Nudel, MD

Assistant Professor of
Surgery, Boston University
Minimally Invasive and
Weight Loss Surgery

Dr. Nudel received his undergraduate degree from Bates College, summa cum laude, and his medical degree from Harvard Medical School. He did his residency in general surgery at Boston Medical Center and completed a bariatric surgery fellowship at Lahey Hospital & Medical Center in 2024. Dr. Nudel's research interests include applying advanced computational models to optimizing obesity management, decision-making related to weight-loss surgery, and post-surgery adverse outcome prediction.



Samantha Rivard, MD

Assistant Professor
of Surgery*
Colon and Rectal Surgery

Dr. Rivard received her undergraduate degree from the University of Michigan and her medical degree from the Medical University of South Carolina. She went on to complete general surgery residency at the University of Michigan in 2023, followed by a colon and rectal surgery fellowship at the UMass Chan Medical School in 2024. During residency,

she spent two very productive years as a fellow in the University of Michigan's Center for Healthcare Outcomes and Policy, where she formed expertise in qualitative methodology. Her research interests include surgical resident education and improving care quality and quality of life of colorectal patients, especially rectal cancer patients and patients with ostomies. She has obtained grant funding from the American Society of Colon and Rectal Surgeons and Blue Cross Blue Shield of Michigan, with the latter supporting a statewide quality improvement project to decrease ileostomy readmissions due to dehydration. Dr. Rivard has published 29 papers in peer-reviewed journals.



Alaina Geary, MD, MHPE

Assistant Professor
of Surgery*
Department of Surgery

Dr. Geary, a 2024 graduate of the Boston Medical Center General Surgery Residency

Program, was selected as the 2024 physician fellow for the Boston Medical Center Ravin Davidoff Physician Executive Fellowship in Health Equity. Fellows work on projects and programs that specifically aim to reduce racial and ethnic inequities in health outcomes. Dr. Geary received her medical degree from Tufts University School of Medicine in 2016 and also earned a master's degree in health professions education (MHPE) at Boston University. During residency, she received the AAS/AASF (Association of Academic Surgery/Association of Academic Surgery Foundation) Trainee Research Fellowship Award. Additionally, she was recognized in 2020 by the AAS for having the best manuscript by an AAS resident member.

* Recommended for

Alumni Profile: Cary Aarons, MD, MSEd

The initial career plans that Cary Aarons, MD, MSEd, made to become an engineer were short-lived. Early in his college career he pivoted to medicine and went on to graduate from Harvard University with a degree in biology. After earning his medical degree at Howard University College of Medicine, he entered the general surgery residency program at Boston Medical Center (BMC), graduating in 2009.

"BU was my first choice," says Dr. Aarons. "It provided the opportunity to work with an underserved community in a safety-net hospital. During residency, I felt like we were a close-knit team making a meaningful difference while working on the front lines in a busy hospital and trauma center." He remembers, "I was a sponge as an intern. Every rotation I did, I could see myself doing that particular thing, in large part because the faculty were so great in getting interns involved in clinical care and in the OR." He ultimately settled on colorectal surgery and completed a fellowship in the Department of Colon and Rectal Surgery at the Mayo Clinic in Rochester, Minn.

Glimpsing the Future

It was during Dr. Aarons' time as administrative chief resident at BMC that he got his first insight into what education leadership would really look like as part of his career path. He credits James Petros, MD, General Surgery Residency Program Director at the time, for guiding and encouraging him to think seriously about incorporating education leadership into his future plans. In the 15 years since completing residency, surgical education and education leadership have become passions for Dr. Aarons. He says, "One of the things that has informed my research, career, and scholarly activity is understanding that the workforce that we have really should reflect and support the patients that we serve." Through his scholarship, invited lectures, and work on numerous committees of the American College of Surgeons (ACS), the Association for Surgical Education (ASE), the Association of Program Directors in Surgery, and other professional organizations, he has gained national recognition.

Dr. Aarons began his clinical practice in 2010 in the Division of Colon and Rectal Surgery at Hahnemann University Hospital in Philadelphia, where he was on the faculty of Drexel University College of Medicine. A year later, he joined the faculty at the Perelman School of Medicine at the University of Pennsylvania



Photo by Daniel Burke

(Penn), rising to Professor of Clinical Surgery in 2022. Today, he is a Professor of Surgery at NewYork-Presbyterian/Columbia University Irving Medical Center, after being recruited to Columbia in 2023. Dr. Aarons is Vice Chair of Education for the Department of Surgery and director of the general surgery residency program, as well as interim Chief of the Division of Colorectal Surgery.

During most of the 12 years he spent at Penn, he was intimately involved in medical student and trainee education in various capacities, serving first as the student clerkship director, followed by a year as associate director of the general surgery residency program, and finally five years as program director. In addition, while there, he earned a master's degree in medical education from the University of Pennsylvania Graduate School of Education.

Role Models

"I think one of the real gems of my training at Boston Medical Center was Dr. Erwin Hirsch." The legendary Chief of Trauma Surgery for more than 30 years, Dr. Hirsch passed away in 2008 after a boating accident. "We all struggled to impress him all the time and to be like him. I remember when he passed tragically in my fourth year. He really was a giant in the field and to have had the opportunity to work with him for four years was really special to me and to my colleagues."

Other faculty members who come to mind when Dr. Aarons thinks about BMC are David McAneny, MD, and Jonathan Woodson, MD. "Dr. McAneny was just an impressive surgeon and an impressive human being, who taught us a lot about surgery but also academic surgery." Dr. McAneny is now Senior Vice President of Medical Affairs and Chief Medical Officer at BMC and a Professor of Surgery at Boston University Chobanian & Avedisian School of Medicine. A highly regarded vascular surgeon, Dr. Woodson went on to serve as Assistant Secretary for Health Affairs for the U.S. Department of Defense and is now President of the Uniformed Services University of the Health Sciences. Dr. Aarons says there weren't a lot of faculty of color during his residency, but "Dr. Woodson gave representation of what it looked like to be a person of color in academic surgery, and I vividly recall what a great leader he was."

Change Agent

In his scholarly activity and practice in education leadership, Dr. Aarons has championed a more holistic approach to residency selection. He says, "We've seen that the field of

"I've worked really hard as a program director and in education leadership so that as a field we embrace meaningful change."

— Cary Aarons, MD, MSEd

surgery has lagged behind in terms of gender representation and in representation of those who are traditionally underrepresented in medicine, and I think this is an important and multifaceted problem to take on. Certainly, one approach is to be more thoughtful in how we make selections in the first place. I've worked really hard as a program director and in education leadership so that as a field we embrace meaningful change."

During Dr. Aarons' time at Penn, employing a targeted outreach plan and implementing changes in the resident selection process over a period of years proved successful. He was integral to driving change, and during his tenure, the percentage of general surgery residents underrepresented in medicine increased significantly. A key component of the outreach efforts, in collaboration with Penn's Alliance of Minority Physicians, was offering month-long visiting clerkships, inviting underrepresented students into the learning environment to ensure they would get a sense of the Penn community, while also providing mentorship for them going forward.



Cary Aarons, MD, MSEd, performs surgery with mentee Madison Grasty, MD.

One of the most significant changes in the resident holistic selection process was expanding the pool of reviewers and blinding them to standard metrics. Dr. Aarons says, "They never saw photos, never saw grades, never saw USMLE scores. We tasked them explicitly with looking at criteria within the rest of the application that we thought resonated with the mission of the department." He adds, "I think it is just one way to address potential biases people may have. Metrics are important and are always considered in any holistic review process, but I don't think they paint the whole picture of who an applicant is or will be. Intentionally changing the narrative and changing the focus helped us to be a little more mission driven about what we were looking for in an applicant." He notes that studies that have looked at employing a holistic versus a more traditional approach to recruitment have found there is no change in graduation rates, passing of specialty boards, and GPAs.

Testament to the impact that Dr. Aarons had while at Penn is the creation of the Cary B. Aarons Equity and Inclusion Award. The winner is selected by surgical residents and faculty and awarded annually to a member of the surgical housestaff or faculty who demonstrates commitment to creating an equitable and inclusive learning environment for surgical residents.

Familiar Territory

At Columbia, Dr. Aarons has a busy clinical practice and has hit the ground running in his new educational leadership roles. He is no stranger to New York City and still has family there, having spent part of his childhood in the Bronx, after emigrating from Jamaica at the age of 12. He says that the residency programs and health systems are remarkably similar at both Columbia and Penn, with a lot of the same benefits and challenges.

Looking back at his time at BMC, Dr. Aarons says that there were some inherent challenges in terms of resources but there was also a camaraderie among the residents, who took pride in serving the residents of Boston who count on BMC. "I couldn't be more proud to have trained there."



Vitaliy Volansky, DPM, consults with a patient during a clinic visit.

On Firm Footing

The Division of Podiatric Surgery at Boston Medical Center (BMC) was established 25 years ago by the late Geoffrey Habershaw, DPM. With more than 20,000 clinic visits annually, it is going strong. "We're running at full tilt because of the demand," says Ewald Mendeszoon, DPM, Chief of Podiatric Surgery and Assistant Professor of Surgery at Boston University Chobanian & Avedisian School of Medicine (BUCASM).

The six clinically active providers in the department see patients with bunions, hammertoes, plantar fasciitis, and all of the common conditions that can affect the foot and ankle. But a large part of their practice is dedicated to wound care for diabetic patients and those with peripheral vascular disease. Dr. Mendeszoon says, "Because of their multiple comorbidities, these patients can be more challenging, and we work

closely with the vascular surgeons on limb preservation."

In addition to providing excellent patient care, the division is home to a three-year podiatric surgery residency program, accredited by the Council on Podiatric Medical Education. The program accepts two new residents per year, for a total of six residents.

Dedicated Team

The podiatric surgery team is a tight group. Four surgeons completed part of their training here at BMC. Wei Tseng, DPM, was recruited to become an attending surgeon after completing her residency here in 2015. Elizabeth Sanders, DPM, and Ashley Daniel, DPM, MBS, also did their residencies at BMC, in 2017 and 2022, respectively. And Justin Ogbonna, DPM, completed a fellowship (no longer offered) at BMC in 2011. All are on the BUCASM faculty.

Dr. Sanders, who returned to BMC in 2022 after fellowship and three years in private practice in Puerto Rico, says, "I love being in academia, and I truly appreciate the mission of BMC. Because we are treating such a diverse patient population, the pathology we see is a lot more varied and complex than in private practice." She points to an ancillary role that the podiatric surgery team takes on in the foot care they provide for diabetic patients. "We educate patients on disease prevention, including diet, exercise, and the importance of proper footwear. Many primary care physicians are overwhelmed. They have 20 minutes to address all the ailments a patient may have, so if we can help in this way, we want to do it."

Mission Driven

Of all the procedures Dr. Tseng does for patients, she says that wound care is her passion. "It is rewarding to heal

"I love being in academia, and I truly appreciate the mission of BMC. Because we are treating such a diverse patient population, the pathology we see is a lot more varied and complex than in private practice."

— Elizabeth Sanders, DPM

a patient and save a limb." One of the things she is most proud of is that BMC is a judgment-free zone. "We treat all patients, no matter their financial or social background. Those who want and need help are not turned away."

Each attending has a wound clinic session every week because the need is so great. Like Dr. Tseng, Vitaliy Volansky, DPM, who recently marked 10 years at BMC, is similarly passionate about wound care and says the dream is to have a full-fledged wound center. He says, "Diabetes is a socioeconomic problem. We see the patients who are most in need of medical care, with A1c levels through the roof and nonexistent blood flow."

Related to this, a concerning trend has emerged, according to Podiatric Surgery Research Director Hau Pham, DPM, Assistant Professor of Surgery at BUCASMS, who has done research on amputation rates. He says that since 2018, the podiatric surgery team has seen a very significant increase in the number of toe amputations and a large increase in midfoot amputations as well. During an on-call week, Dr. Volansky says it is not uncommon to perform several amputations. With a dedicated wound center, which the hospital is exploring, he believes it might be possible to reduce the number of amputations by simplifying the logistics for patients, enabling them to see a podiatric surgeon, a vascular surgeon, and if needed, a plastic surgeon, in one visit.

In the Wings

Minimally invasive bunion surgery is back. This approach was introduced several years ago when medical equipment manufacturers developed new instrumentation that made this option possible, but Dr. Mendeszoon says it never really took off in the U.S. However, in the U.K., it has been increasing in popularity and with a new generation of products on the market, it is slowly catching on here. Although skepticism remains among some podiatrists about its advantages over traditional bunionectomy, the products and

Innovations continue in new products that aid in complex wound healing. BMC is an active site for clinical trials of several of these products, with Dr. Volansky serving as site principal investigator. Therapies recently evaluated range from a potentially promising treatment for soft tissue regeneration made from decellularized fish skin to harvesting a patient's own healthy skin, and shipping it overnight to a biomedical manufacturing facility to create an autologous heterogenous skin construct.

For 25 years, the Division of Podiatric Surgery has embodied the exceptional



Chief of Podiatric Surgery Ewald Mendeszoon, DPM, and Elizabeth Sanders, DPM, plan for a surgical reconstruction with external fixation.

techniques are demonstrating promise. The BMC podiatric surgery team, which focuses heavily on education and continuing to advance the field with new and innovative procedures, is on track to introduce this minimally invasive option to patients in the future.

and inclusive care that is at the core of BMC, and it shows no sign of slowing down in providing individualized, compassionate care for the next 25—and beyond.

High Reliability on the Horizon

Hospitals are increasingly embracing principles that the airline industry and other so-called high-reliability organizations (HROs) use to operate safely and efficiently despite complex challenges. The high-stress, high-stakes environment and massive resource utilization in the surgical critical care unit (SICU) make it a logical place to implement tenets associated with HROs.

At Boston Medical Center (BMC), the 28-bed SICU includes both surgical and neurocritical patients, as well as a small volume of cardiothoracic surgery patients. Over the last year, the SICU team has been engaged in a deep dive on quality and safety, collecting and quantifying monthly statistics as part of a larger multidisciplinary effort. Early results from one recently implemented initiative to reduce patient ventilator days look promising. Chief of Surgical Critical Care Noelle Saillant, MD, says, "We've drilled down to capture detailed

"The hope is that we're getting patients extubated earlier, out of the ICU earlier, and on their way to recovery," says Dr. Saillant, Associate Professor of Surgery at the Boston University Chobanian & Avedisian School of Medicine (BUCASMS). "But we want to be sure we're not causing any unsafe intubations or more reintubations." Based on extensive planning, this ventilator management initiative was piloted in the medical ICU, with no increase in reintubation rates, before being implemented in the SICU.

Critical Infrastructure

At the heart of this initiative was work done in collaboration with IT to build infrastructure that provides detailed metrics. New dashboards were created by layering data from patients' medical records in Epic with quality data and processing it with analytics software. Dr. Saillant says, "We're pulling monthly stats on every patient who is intubated—

"So far, we've done at least 50% of our extubations before noon, and the goal is to get 100% before the day starts. We've seen that we are making a dent in our length of stay and ventilator days, which we hope will translate into decreased pneumonia risk."

— Noelle Saillant, MD

patient data to help guide decisions about extubation, and we're utilizing the respiratory therapy team during the overnight shift to safely extubate patients deemed clinically appropriate." This shift in timing means that patients can be monitored over the course of the day, and those who do well can be moved out of the SICU before nighttime.

how long they're intubated, reintubation rates, vent days, and ICU length of stay. We've never had this kind of data."

Typically, Dr. Saillant says that the results of spontaneous breathing trials (SBTs) conducted by the respiratory therapy team would not be available until mid-afternoon, with the breathing tubes of

patients deemed clinically appropriate not removed for an hour or longer.

"As part of the pilot for this initiative, we made changes in extubation timing gradually, in hourly increments, and monitored the data."

A large multidisciplinary group—ICU directors, respiratory therapists, project managers, the Epic team, hospital and Surgery quality teams, and nursing—worked together to create the new workflow. Under the current protocol, respiratory therapists conduct SBTs between midnight and 4 am, typically a low-volume time. Dr. Saillant says, "So far, we've done at least 50% of our extubations before noon, and the goal is to get 100% before the day starts. We've seen that we are making a dent in our length of stay and ventilator days, which we hope will translate into decreased pneumonia risk."

"Moving our SBTs to the early hours of the morning was certainly an adjustment for the night shift clinicians," says Director of Respiratory Care Services Nicholas Nuccio, MS, RRT-ACCS.

"Fortunately, the positive results have been both satisfying and motivating for the respiratory therapists. We're excited about the future and look forward to further improving our process and its impact on patient outcomes."

Righting the Ship

The same expanded set of metrics was utilized when data from the American College of Surgeons Trauma Quality Improvement Project, which provides benchmarks for comparisons to other institutions, showed that BMC was out of range for deep vein thrombosis (DVT) and pulmonary emboli (PE), specifically for trauma patients, but largely in the SICU.

Pamela Rosenkranz, RN, BSN, MEd, Senior Director of Quality and Patient



(L to R) Nicholas Nuccio, Director of Respiratory Care Services; Robert Canelli, MD, Director of Anesthesia Critical Care; Andrisa Jefferson, Administrative Manager for Clinical Operations, Rehabilitative and Respiratory Care Services; and Noelle Saillant, MD, Chief of Surgical Critical Care

Safety for the Department of Surgery, and Sabine Clasen, RN, PhD, Senior Quality and Patient Safety Specialist, launched a root cause analysis. Dr. Saillant says, "They were extremely detailed in using a systematic analytical approach to identify contributing factors impacting every single patient. Working with trauma surgeon Crisanto Torres, they found multiple systems issues and dealt with all of them to fix the problems. Their work went hospital wide, and the pharmacy is in the final process of changing every order set for the hospital." Ms. Rosenkranz, Assistant Professor of Surgery at BUCASM, says, "For several years we have been working with trauma, ortho, and neurosurgery to develop an algorithm guideline that can be applied to all TACS [trauma and acute care surgery] multispecialty patients to

prevent VTEs. It is so exciting that this has been approved by the hospital antithrombotic task force and will be implemented with the overall goal of preventing VTEs."

Balancing Act

Members of the quality and SICU teams met with the orthopedic surgery and neurosurgery teams to come up with new anticoagulation guidelines, which are more aggressive in terms of starting heparin to prevent DVTs and Lovenox to prevent PE in orthopedic and brain-injured patients. "Just like the breathing trials, we're really trying to get this perfect, Goldilocks scenario where the risk of brain bleed is minimized and the protection against DVT and PE is maximized," says Dr. Saillant. She adds,

"Every micro-decision you make affects something downstream and resource utilization. Just by shifting your heparin dosing schedule, you allow optimization of the operating room and minimize canceling of patients. Managing this is difficult. Patients need this medication, but if they're going to the OR, it increases the chance of bleeding. If they're not going because the OR gets busy, you're not putting them at risk because you're still giving the patient a medication they need."

Ensuring excellence in patient safety and quality of care requires a sustained, multidisciplinary effort. Dr. Saillant says, "An ICU is a valuable and expensive resource, so capitalizing on using it effectively and for good outcomes is a real responsibility. The goal is to make that happen."



Crisanto Torres, MD, MPH, and Canton EMS Coordinator Leo Reardon during a dry run.

Wholly Invested

Removing barriers to prehospital whole blood transfusion

During the early morning hours of June 29, 2024, a 35-year-old man was involved in a serious car crash in Braintree, about 12 miles south of Boston, and was transported to Boston Medical Center (BMC) via ambulance. But this was no routine transport. While in the ambulance, the patient received a whole blood transfusion that helped to save his life—the first-ever prehospital whole blood transfusion in Massachusetts. As of early September, 11 other severely injured patients have received whole blood transfusions in an ambulance.

The new Field Transfusion Paramedic Program is a partnership between BMC and the fire department in Canton, Mass., another community south of Boston.

Trauma surgeon Crisanto Torres, MD, MPH, Assistant Professor of Surgery at Boston University Chobanian & Avedisian School of Medicine, is leading the program at BMC. He worked very closely with Canton Fire over a two-year period on protocol planning and securing approvals, as well as training paramedics to do transfusions. After the Massachusetts Department of Public Health gave the green light to a one-year pilot, the program went live in the spring of 2024.

Standard of Care

Whole blood is the standard of care in the military when treating wounded soldiers. Its use has gained traction across the U.S. in civilian trauma centers,

with approximately 30% of centers now using it but only about 1% of emergency medical services (EMS) employing whole blood in the prehospital setting.

Prehospital blood programs have been pioneered in Louisiana and Texas, and recently introduced by EMS in Washington, D.C. The city of San Antonio has a well-established program that began in 2018, with more than 2,000 patients now having received whole blood transfusions en route to a hospital. The BMC–Canton partnership is only the second in New England, joining a program based in Hartford, Conn.

“With the support of Dr. Torres and the trauma surgeons at BMC, we are creating a survival bridge from the point of trauma to the trauma center,” says Michael

Valkanas, MD, EMS Medical Director for Canton Fire. He believes that before long paramedics doing transfusions will become completely normal, just as paramedics obtaining a prehospital 12-lead ECG did in the 1990s.

Multiple Benefits

At least two units of whole blood are kept at the ready in the trauma bay at BMC, and are frequently needed. Dr. Torres says, "Study after study has shown the survival benefit associated with whole blood. These studies have also identified another benefit, the need for less blood product because whole blood stops bleeding more robustly than blood component therapy."

Through his own research, Dr. Torres has bolstered the evidence underlying the safety and efficacy of whole blood transfusion. In a retrospective cohort study that included more than 2,700 patients with severe hemorrhage at Level I and Level II trauma centers in the U.S. and Canada, Dr. Torres and colleagues found that patients who received whole blood as an adjunct to traditional component-based therapy had better survival rates at 24 hours and at 30 days than those who received component therapy alone. The study, published in 2023 in *JAMA Surgery*, also found that survival curves for the two groups separated within five hours of emergency department (ED) arrival and initiation of whole blood transfusion, suggesting that whole blood is associated with an early effect in blunting trauma-induced coagulopathy.

Another study led by Dr. Torres and published in *JAMA Surgery* in 2024, illustrates the importance of starting whole blood transfusion as quickly as possible upon arrival in the ED. He says, "There was a decrease in survival probability for each minute delay in whole blood transfusion, but the most pronounced reduction in probability of survival was seen after 14 minutes." Dr. Torres predicts that as more evidence emerges, whole blood will eventually become the standard of care for patients with severe hemorrhage. A multicenter

randomized trial is currently underway comparing whole blood and component therapy for trauma patients who present to the ED with severe bleeding.

On Call

Canton Fire received federal and state grants to start the pilot program, which includes participation from 25 surrounding towns. One capital cost was purchasing a new vehicle equipped with a special cooler to store the low-titer group O whole blood, which is supplied by the BMC blood bank. Blood Bank Director Reggie R. Thomasson, MD, says, "When whole blood units are not transfused and the expiration date is approaching, we have a system in place so that Canton Fire returns those units to our blood bank. In order to minimize product waste, we can further process the whole blood to make red cell components to be used for hospital-based transfusions."

When contacted by an EMS service, Canton Fire can respond to calls up to 30 minutes away and if needed, can intercept an ambulance from another EMS service that is on the way to the hospital. As has already happened, the specialized truck and ambulance meet up for a brief stop so a paramedic can

transfusion reaction, and whole blood can make a tremendous difference in saving a patient's life in the prehospital space." He adds, "The forward-thinking nature of both the trauma surgeons and the blood bank at BMC has been essential to making this game-changing program a reality."

Improving Access

Boston has five Level I trauma centers. But south of the city and all the way to Cape Cod, there are no Level I centers and just one Level II and one Level III center. Some of the communities south of Boston are home to economically disadvantaged populations faced with inequities in health care, including access to trauma care. Dr. Torres says, "This program is helping to address the inequities in trauma center access and quality of care with blood, a temporizing intervention, so that someone can survive at the scene and survive transport to the hospital for a definitive intervention that will give them a fighting chance."

Canton Fire has been a proponent of instituting a whole blood field program for several years, even before meeting Dr. Torres, who was equally invested in building such a program.

"Study after study has shown the survival benefit associated with whole blood. These studies have also identified another benefit, the need for less blood product because whole blood stops bleeding more robustly than blood component therapy."

— Crisanto Torres, MD, MPH

jump on the ambulance with the blood and a mobile transfuser.

Canton Fire EMS Coordinator Leo Reardon, who is directing the Field Transfusion Paramedic Program, says, "Doing a transfusion is not a complicated procedure, with very low risk of a

Together, they hope that they can demonstrate the lifesaving benefits of prehospital whole blood transfusion and work to educate and train other EMS providers across the state interested in starting their own programs.

Surgery Internship Prep Course Marks 12 Years

Danielle Eble, MD, is now in her last year of a plastic and reconstructive surgery residency at the University of Washington, but in July of 2019, she had just begun her intern year, when one of her patients suffered a STEMI. She had to run the initial rapid response alone. As a newly minted graduate of the Boston University Chobanian & Avedisian School of Medicine (BUCASM), she had recently completed the Department of Surgery's "bootcamp" for fourth-year students going into general surgery and subspecialties. In a note she sent at the time to express her thanks for the course, she wrote:

Without the bootcamp course, I would not have been remotely prepared to manage the acute phase of her MI quickly, calmly, and appropriately. As such, I wanted to take this opportunity to thank you and all of the Department of Surgery faculty, staff, and residents who contribute to the bootcamp course each year. It was, without question, the

most valuable and applicable experience of my medical school career and, just two weeks into intern year, it has already helped me to play a small role in saving a patient's life.

Basic life support (BLS) is just one of the many skills covered in the Surgery Internship Prep Course, as it is officially and aptly known now. Students attain BLS and advanced cardiac life support (ACLS) certification during the popular month-long course. Since its inception in 2013, it has now been offered 12 times. A true collaborative effort across departments, in 2024, 60 faculty and residents from Boston University and Boston Medical Center (BMC) participated, as well as members of the broader Boston medical community.

For course director Alik Farber, MD, MBA, Chair of Surgery and Surgeon-in-Chief at BMC, who also created the course, it is a labor of love. He says, "Bootcamp is not about lecturing students. It's about engaging them in a special way in order to impart concrete

skills and knowledge that they will really need. The goal is to help them excel as interns."

Dynamic Curriculum

When the Surgery Internship Prep Course launched in 2013, BUCASM was one of 15 schools participating in the National Preparatory Surgery Curriculum Initiative pilot program, a collaboration among the American College of Surgeons (ACS), the Association of Program Directors in Surgery (APDS), and the Association for Surgical Education (ASE). At BUCASM, customized modules were added to the required core content, much of which was based on a template developed at the University of Michigan, one of the first institutions to offer a course of this kind. The pilot ended in 2016, but the ACS/APDS/ASE collaboration continues under the auspices of the Resident Prep Curriculum, with Boston University and more than 100 other medical schools now participating in this project.

Medical students practice their laparoscopic surgery skills during the annual Surgery Internship Prep Course in 2024.



Since its inception, the core components of the Surgery Internship Prep Course have essentially stayed the same, but the course has expanded, evolved, and pivoted when necessary. The Boston Marathon bombings took place in April 2013 as the first-ever course was underway, and during COVID, the mock surgery modules had to be discontinued for a time because of difficulty in obtaining lightly embalmed cadavers.

The emphasis of this learning experience remains on high-fidelity simulation and skills acquisition, including suturing, placing chest tubes and central lines, and inserting nasogastric tubes. Wound management and the use of laparoscopic instruments are also covered, along with a mix of classroom modules. There are sections dedicated to quality, risk management, ethics, and time management. The course is dynamic, so new topics—What Senior Residents Wish Interns Knew—have been added while others have been retired and additional changes made each year based on student feedback. Dr. Farber, Professor of Surgery and Radiology at BUCASM, says, “Through pre- and post-course surveys gauging anxiety levels and confidence, we know that the course lowers the former and increases the latter.”

Rites of Passage

In reflecting on the month she spent in surgery bootcamp in 2021, BUCASM graduate Alexandra Forsyth, MD, had this to say about the course: “The bootcamp gave me a framework to use from Day 1 for approaching patients on the floor, starting with receiving the page from nursing. I remember early on during intern year, I got a page about a patient with shortness of breath after a bypass. I was able to recall an approach and differential discussed during the course for my initial workup and management that I could bring to my seniors.” Now



Seven BUCASM students completed the first Surgery Internship Prep Course in 2013.

a PGY4 vascular surgery resident at the UMass Chan Medical School, Dr. Forsyth adds, “I have come a long way since bootcamp. Every year builds on the last, and to do well anywhere in medicine, you need a strong foundation. I am extremely grateful that I came out of BU

approach home meds prior to surgery. It also served as useful practice for technical skills such as suturing. And anatomy lab week not only helped us review clinically relevant anatomy but also common approaches for OR positioning, incisions, and exposure.”

“I have come a long way since bootcamp. Every year builds on the last, and to do well anywhere in medicine, you need a strong foundation. I am extremely grateful that I came out of BU with a strong foundation, and surgical bootcamp was a large part of the base I had when I entered internship.”

— Alexandra Forsyth, MD

with a strong foundation, and surgical bootcamp was a large part of the base I had when I entered internship.”

Max Zhu, MD, is a 2024 BUCASM graduate and a PGY1 vascular surgery resident at the University of Rochester, who recently took the Surgery Internship Prep Course. He says, “It was one of the most useful courses in medical school and prepared me for surgery internship. I specifically remember learning how to

He adds, “The course provided an environment where I was able to ask questions and address misconceptions prior to practice and also gave me tips for a successful career even beyond intern year.”

“Over the years, we’ve heard from many students who’ve taken the course,” says Dr. Farber, “and it is extremely gratifying to know that the course has been so valuable.”

Surgery Education Office

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Program Director

Luise Pernar, MD, MHPE

Associate Director

Aaron Richman, MD

Associate Director

Lana Ketlere

Residency Program Coordinator

Grace Catanzaro

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Surgical Critical Care Fellowship

Noelle Saillant, MD, Director

Robert Canelli, MD, Deputy Director

Vascular and Endovascular Surgery Fellowship

Jeffrey Siracuse, MD, MBA, Director

PODIATRIC SURGERY RESIDENCY PROGRAM

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Director

Justin Ogbonna, DPM

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Shay Mansoor, MD, Assistant Director, Kaiser Permanente Santa Clara

Michael DiSiena, DO, Assistant Director, Berkshire Medical Center

Eduardo Vega, MD, Assistant Director, St. Elizabeth's Medical Center

Lorenzo Bucci, MD, Assistant Director, MetroWest Medical Center

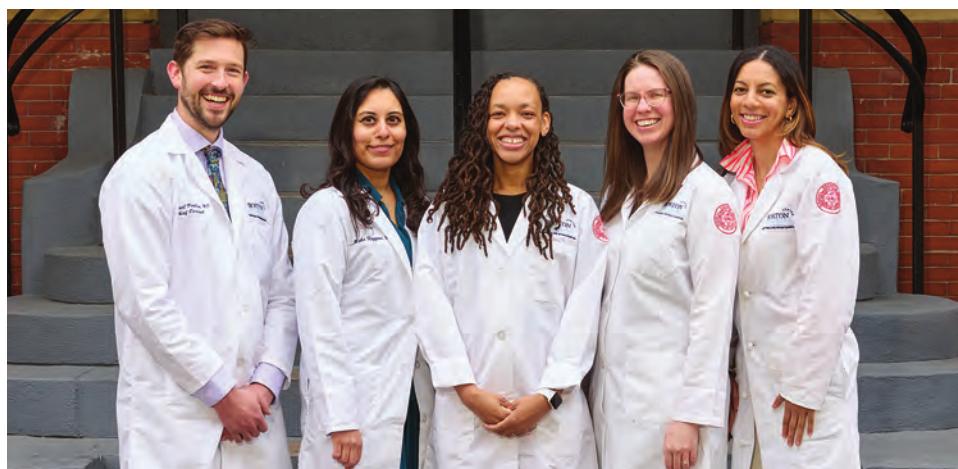
SURGERY RESIDENCY PROGRAM

The Boston University General Surgery Residency Program provides residents with the range and depth of surgical experience and academic exposure required to develop superior surgical skills and an ability to make informed, independent judgments. The five-year program, which is accredited by the Accreditation Council for Graduate Medical Education, is committed to preparing future generations of highly skilled surgeons.

The surgery residency program is based at the Boston University Medical Campus, a modern medical complex located in the heart of Boston's South End. The campus includes the Boston University Chobanian & Avedisian School of Medicine, the Boston University School of Public Health, the Henry M. Goldman School of Dental Medicine, and the National Emerging Infectious Diseases Laboratories, as well as Boston Medical Center.

Through exposure to a large, diverse patient population, residents gain broad and deep experience in complex open and minimally invasive surgery. With very few fellowship programs, the focus of the program is the education of general surgery residents.

Residents interested in careers in academic surgery develop the necessary skills in surgical research through a broad range of training opportunities designed to maximize academic development.



(L to R) Michael Poulson, MD, MPH; Maha Haqqani, MD; Alaina Geary, MD, MHPE; Gillian Goddard, MD; Loreski Collado, MD

2024 Surgery Residency Graduates

Loreski Collado, MD

Endocrine Surgery Fellowship
Emory University School of Medicine

Alaina Geary, MD, MHPE

Physician Fellow, Ravin Davidoff Executive Fellowship in Health Equity
Boston Medical Center

Gillian Goddard, MD

Intestinal Failure Fellowship
Cincinnati Children's Hospital

Maha Haqqani, MD

Vascular Surgery Fellowship
NewYork-Presbyterian Hospital – Columbia/Cornell

Michael Poulson, MD, MPH

Surgical Critical Care Fellowship
University of Chicago Medicine

CURRENT RESIDENTS (2024–2025 Academic Year)

PGY1	PGY2	PGY4	Olivia Sacks, MD Geisel School of Medicine at Dartmouth
Categorical	Categorical	Brendin Beaulieu-Jones, MD, MBA, MBI Geisel School of Medicine at Dartmouth	Allan Stolarski, MD Albany Medical College
Joseph Dao, MD Pennsylvania State University College of Medicine	Daniel Counihan, MD The University of Toledo College of Medicine and Life Sciences	Priyanka Chugh, MD, MS Cooper Medical School of Rowan University	Spencer Wilson, MD University of North Carolina School of Medicine
Deborah Dele-Oni, DO Kansas City University College of Osteopathic Medicine	Josue Bryant Estrella, MD University of Colorado School of Medicine	Nicole Cimbak, MD Sidney Kimmel Medical College at Thomas Jefferson University	RESEARCH RESIDENTS
Laurynn Garcia, MD Baylor College of Medicine	Dylan Kaye, MD Drexel University College of Medicine	Heba Elassar, MD Oakland University William Beaumont School of Medicine	Andrea Alonso, MD Boston University Chobanian & Avedisian School of Medicine
Emanuele Lagazza, MD University of Genoa Faculty of Medicine and Surgery	Phoebe Otchere, MD Northeast Ohio Medical University	Gordana Rasic, MD, MS Eastern Virginia Medical School	Khu Aten Maaneb de Macedo, MD University of Minnesota Medical School
Jessica Lee, MD Geisel School of Medicine at Dartmouth	Rebecca Reardon-Lochbaum, MD Western Michigan University Homer Stryker M.D. School of Medicine	PGY5	Abdimajid Mohamed, MD Tufts University School of Medicine
Shirline Wee, MD Creighton University School of Medicine	Lawson Traylor, MD University of South Carolina School of Medicine, Greenville	Carlos Fairen Oro, MD University of Valencia Faculty of Medicine and Dentistry (PGY1-2: Johns Hopkins School of Medicine)	Sara Myers, MD Case Western Reserve University School of Medicine
Preliminary	PGY3	Louis Kester, MD Drexel University College of Medicine	Ashlee Seldomridge, MD West Virginia University School of Medicine
Granville Baxa, MD Medical University of South Carolina College of Medicine	Kiyah Anderson, MD University of Tennessee Health Science Center College of Medicine	Emily Gervais, MD Robert Larner, M.D., College of Medicine at the University of Vermont	Sophia Smith, MD, MS Tulane University School of Medicine
Michael Ferraton, MD Boston University Chobanian & Avedisian School of Medicine	Anna Kobzeva-Herzog, MD Boston University Chobanian & Avedisian School of Medicine	Jeffrey Melvin, MD Albert Einstein College of Medicine	
Mason Merriel, MD Boston University Chobanian & Avedisian School of Medicine	Maia Nofal, MD Boston University Chobanian & Avedisian School of Medicine	Colten Yahn, MD Eastern Virginia Medical School	
Tina Phan, MD Tufts University School of Medicine			
David Posawatz, MD Tufts University School of Medicine			



CURRENT FELLOWS

Surgical Critical Care Fellowship

Edward-Michael Dusson, MD
Sunhee Kim, MD

Vascular and Endovascular Surgery Fellowship

Alex Lin, MD
Evan Merle, MD
Carolyn Song, MD

CURRENT PODIATRIC SURGERY RESIDENTS

PGY1

Joshua Choi, DPM
Temple University School of Podiatric Medicine

Rafael Moradian, DPM
Western University of Health Sciences College of Podiatric Medicine

PGY2

Alyssa Miyasato, DPM
Western University of Health Sciences College of Podiatric Medicine

Subin Siby, DPM
Temple University School of Podiatric Medicine

PGY3

Marall Abbaszadeh, DPM
Dr. William M. Scholl College of Podiatric Medicine

Christian Costales, DPM
California School of Podiatric Medicine at Samuel Merritt University

Resident News



Marall Abbaszadeh, DPM, gave oral and poster presentations at the American Podiatric Medical Association Region One Conference in 2023.



Josue Estrella, MD, was selected by third-year medical students to receive the Junior Resident Teaching Award.



Andrea Alonso, MD, gave a plenary presentation at the 2024 Vascular Annual Meeting on the association of relative surgeon volume of carotid endarterectomy to transcarotid artery revascularization and perioperative outcomes. Dr. Alonso was awarded a scholarship from the New England Society of Vascular Surgery to attend the organization's 51st annual meeting, where she will present her study on long-term outcomes in patients suffering stroke following carotid artery stenting. She also had three poster presentations accepted and was first author of a paper published in the *Journal of Vascular Surgery*. In addition, she received a patient safety grant from the Boston Medical Center Resident/Fellow Quality Improvement Council to focus on improving rates of supervised exercise therapy for intermittent claudication.



Emily Gervais, MD, received the Surgical Critical Care Award, presented to the junior resident who has excelled in the management of critically ill surgical patients.



Louis Kester, MD, matched to the surgical critical care fellowship at the University of Michigan.



Priyanka Chugh, MD, MS, completed her second year as a research fellow at Boston Children's Hospital. Dr. Chugh was awarded the Society of University Surgeons Resident Research Award to fund her project "Medication and Nutrition Adherence in Adolescents and Young Adults with Intestinal Failure." In addition, she received the Society for Surgery of the Alimentary Tract Writers Workshop Scholarship. Over the course of the year, she gave presentations at the annual meetings of the Association for Surgical Education, the American Academy of Pediatrics, the Society of Asian Academic Surgeons (SAAS), and at the American College of Surgeons Clinical Congress. Dr. Chugh was a panelist on webcasts sponsored by SAAS and the Association of Women Surgeons. She authored or co-authored papers published in the *Journal of Pediatric Surgery*, *Academic Medicine*, *Vascular and Endovascular Surgery*, *Journal of Surgical Research*, *The American Journal of Surgery*, and *Global Surgical Education* and was recognized as a top reviewer for the latter.



Anna Kobzeva-Herzog, MD, completed her second year as the Quality Improvement and Research Surgical Fellow at Boston Medical Center (BMC) and received several awards over the course of the year.

These included a Best Abstract Award at the American College of Surgeons Quality and Safety Conference and at the New England Surgical Society Annual Meeting, first place for her brief podium presentation on the sustained success of a postoperative venous thromboembolism protocol at BMC. Dr. Kobzeva-Herzog also made oral presentations at the Eastern Association for the Surgery of Trauma Annual Scientific Assembly and at the American College of Surgeons Clinical Congress Scientific Forum. She was first author of a paper published in the *Journal of Trauma and Acute Care Surgery* that was selected by the editors as the "Best of Surgical Critical Care." In addition to this manuscript, she co-authored nine papers that were published in *Annals of Vascular Surgery*, *Journal of Vascular Surgery*, and *The American Journal of Surgery*.



Brenda Lin, MD, matched to the vascular surgery fellowship at Boston Medical Center.



Alyssa Miyasato, DPM, gave a poster presentation at the American Podiatric Medical Association Region One Conference in 2023.



Maia Nofal, MD, MPH, completed the second year of her academic development time, launching a multicenter study at four hospitals in Rwanda to implement

surgical infection prevention and antibiotic stewardship practices. Dr. Nofal gave oral presentations at the College of Surgeons of East, Central, and Southern Africa and at the Academic Surgical Congress. She also gave a talk at the University of Global Health Equity in Rwanda to graduate students in the Global Health Delivery program. In addition, she co-authored papers in *JAMA Surgery*, *British Journal of Surgery*, and *Surgical Infections*.



Olivia Sacks, MD, received an American Society of Colon and Rectal Surgeons Health Equity Grant to design and implement a novel smartphone-based patient education program to improve health literacy and preparedness for colonoscopy at Boston Medical Center (BMC). Videos and text-message instructions will be translated into the most common languages spoken by BMC patients. Dr. Sacks also co-authored a review article on management of diverticulitis and an invited commentary, both published in *JAMA Surgery*.



Sophia Smith, MD, gave podium presentations at the Academic Surgical Congress and the American Association for the Surgery of Trauma Annual Meeting, where she also made a poster presentation. Dr. Smith co-authored eight articles, five as first author, in the following journals: *Journal of the American College of Surgeons*, *Surgery*, *Journal of Surgical Research*, and *International Journal of Surgical Education*.



Allan Stolarski, MD, matched to the trauma and surgical critical care fellowship at the University of Pennsylvania. Dr. Stolarski won first place for his paper in the

associate member category at the American Association for the Surgery of Trauma Annual Meeting and second place for his presentation.



Spencer Wilson, MD, matched to the surgical critical care fellowship at Johns Hopkins Hospital. Over the course of the year, Dr. Wilson co-chaired a panel on climate change and surgery at the Association of Surgical Education Annual Meeting and made a poster presentation at the American College of Surgeons Clinical Congress. He was selected by third-year medical students to receive the Senior Resident Teaching Award.



Surgery resident Anna Kobzeva-Herzog, MD, and mentor David McAneny, MD, at the American College of Surgeons Quality and Safety Conference, where she received a "best abstract" award.

Residents on Research

Residents have the option to spend one to three years conducting research, typically after their second or third year, to pursue their academic development. Often this research is done in collaboration with other departments at Boston Medical Center and other schools at Boston University. In addition, residents may choose to conduct research with faculty from other institutions, providing them with a wealth of opportunities to pursue their interests, develop as academic surgeons, and make significant contributions.

Andrea Alonso, MD

Site: Boston University Chobanian & Avedisian School of Medicine

Research Mentors: Jeffrey Siracuse, MD, MBA and Marc LaRochelle, MD, MPH

Area of research: Dr. Alonso is obtaining a master's degree in population health research, with a focus on epidemiology, through the Boston University Chobanian & Avedisian School of Medicine. With her primary mentor, Dr. Jeffrey Siracuse, she is working on projects evaluating a diverse array of topics in vascular surgery, focusing on social disparities of health, carotid artery disease, chronic limb-threatening ischemia, and intermittent claudication. Her projects include studies evaluating vascular disease and surgical practice patterns in the U.S., as well as short- and long-term outcomes for vulnerable populations, including patients with health disparities, trauma patients, and elderly patients. She is also working on multidisciplinary quality improvement projects to improve exercise therapy rates for intermittent claudication at Boston Medical Center.

Khu Aten Maaneb de Macedo, MD

Site: Boston University Chobanian & Avedisian School of Medicine

Research Mentors: Jeffrey Siracuse, MD, MBA; Pamela Rosenkranz, RN, BSN, MEd; David McAneny, MD; and Megan Janeway, MD

Area of research: Dr. Maaneb de Macedo is the Quality Improvement and Research Surgical Fellow. She focuses on improving the quality of surgical care through both research efforts and Boston Medical Center-wide quality improvement programs. In this role, she aims to lead several multidisciplinary projects to: standardize VTE prophylaxis; reduce the risk of breakthrough VTE; assess how

language barriers impact the quality of patient care; understand better the social determinants of health that impact our patient population, with a focus on immigrant populations; and work to find ways our healthcare community can better serve the underserved. Dr. Maaneb de Macedo currently serves as the Junior Administrative Research Resident.

Abdimajid Mohamed, MD

Site: Boston Children's Hospital

Research Mentor: Benjamin Zendejas, MD, MSc

Area of research: During his academic development time, Dr. Mohamed will primarily focus on collaborating with the multidisciplinary Esophageal and Airway Treatment (EAT) team at Boston Children's Hospital. His research centers on innovative endoscopic approaches to manage esophageal atresia and related strictures, exploring surgical techniques to improve long-term perioperative care, and enhancing outcomes and quality of life for affected children.

Sara Myers, MD

Site: Boston University Chobanian & Avedisian School of Medicine

Research Mentors: Kelly Kenzik PhD, MS, and Jennifer Davids, MD

Area of research: Dr. Myers will be researching geospatial disparities in access to colorectal surgical care at the local and national levels. She will investigate factors associated with urgent and elective presentation for colorectal cancer, financial burden among urban and rural colorectal cancer patients undergoing surgery, and will also explore healthcare resource differences in urban areas associated with colorectal cancer surgery outcomes.

Ashlee Seldomridge, MD

Site: MD Anderson Cancer Center

Research Mentors: Beth Helmink, MD, PhD; Ashley Holder, MD; and Jennifer Wargo, MD

Area of Research: Dr. Seldomridge is involved in basic and translational research. She is focusing on targeted therapy, immunotherapy, and the impact of the gut and tumor microbiome in melanoma, appendiceal cancer, and peritoneal dissemination of cancer. She is also interested in information and data science in oncology and computational modeling for discovery, development, and optimization of precision medicine.

Sophia Smith, MD, MS

Site: Boston University Chobanian & Avedisian School of Medicine

Research Mentor: Sabrina Sanchez, MD, MPH

Area of Research: Dr. Smith is interested in trauma outcomes and reducing healthcare system waste and inefficiencies. Her primary research project is a multistage, retrospective evaluation of loss to follow-up, emergency department (ED) utilization, and readmissions after traumatic injury, including identification of high-risk patients for intervention prior to an ED visit or readmission. Dr. Smith currently serves as the Senior Administrative Research Resident.

Visiting Professors

In addition to multiple eminent grand rounds speakers, the Department of Surgery was honored to welcome these surgical leaders as named visiting professors during the 2023–2024 academic year.



Grasberger Research Symposium Lecture and Visiting Professorship

Shimul A. Shah, MD, MHCM, FACS

James and Catherine Orr Endowed Chair of Liver Transplantation
Division Chief of Transplantation
Vice Chair for Health Services Research
Professor of Surgery, University of Cincinnati School of Medicine



Diversity, Equity & Inclusion Lecture and Visiting Professorship

Selwyn O. Rogers, Jr., MD, MPH

Dr. James E. Bowman, Jr. Professor in the Biological Sciences, University of Chicago
Chief of Trauma and Acute Care Surgery and Founding Director, Trauma Center, University of Chicago Hospitals
Executive Vice President, Community Health Engagement



Smithwick Visiting Professorship in Vascular Surgery – Fall 2023

Vincent L. Rowe MD, FACS

Wiley Barker Professor of Surgery, David Geffen School of Medicine at UCLA
Chief, Division of Vascular and Endovascular Surgery, Gonda Venous Center



George H. Clowes, Jr., MD, Trauma Lecture and Visiting Professorship

Ajai K. Malhotra, MD, FACS

Professor of Surgery, Robert Larner, M.D. College of Medicine, University of Vermont



Smithwick Visiting Professorship in Vascular Surgery – Spring 2024

Audra A. Duncan, MD, FRCSC, FACS

Chair/Chief, Division of Vascular Surgery
John Denstedt Chair of Surgical Simulation
Schulich School of Medicine & Dentistry at Western University, London, Ontario, Canada



Peter J. Mozden, MD, Visiting Professorship in Surgical Oncology

Atilla Nakeeb, MD

Chair, Division of General Surgery
Chief of Surgical Oncology
Lahey Hospital & Medical Center



Chief of Surgical Oncology Teviah Sachs, MD, presents Mozden Visiting Professor Atilla Nakeeb, MD, with a "Beazley bowl" made by Professor of Surgery Emeritus Robert Beazley, MD.

Selected Grants

Research underway in the Department of Surgery reflects a major commitment to advancing knowledge and improving patient care and outcomes. The department's faculty and trainees are engaged in all aspects of research, from explorations at the basic science level to translating discoveries into treatments that improve human health.

Collaborations with colleagues at the Boston University Chobanian & Avedisian School of Medicine as well as the Schools of Engineering, Public Health, and Business enhance projects in the clinical, health services, and education research arenas.

NEW

Targeting Extracellular Matrix-Senescence Crosstalk as a Novel Approach to Improve Tissue Repair in Aging

Principal Investigators:
Daniel Roh, MD, PhD; Jeroen E.G. Eyckmans, PhD
Sponsor: Hevolution Foundation
Grant amount: \$2,000,000

Improving Access to Trauma Care for Boston Victims of Firearm Violence

Principal Investigator:
Dane Scantling, DO
Sponsor: American College of Surgeons
Grant amount: \$80,000

Field Artificial Intelligence Triage

Principal Investigators:
Noelle Saillant, MD; Brian Telfer, PhD
Sponsor: Massachusetts Institute of Technology/DoD Combat Casualty Care Research Program
Grant amount: \$650,000

Text-Messaging-Based Quality Improvement Intervention to Increase Colonoscopy Completion Rates in a Safety-Net Hospital

Principal Investigator:
Olivia Sacks, MD (Jennifer Davids, MD, faculty mentor)
Sponsor: American Society of Colon and Rectal Surgeons
Grant amount: \$20,000

Vascular Surgery Research Training Program

Principal Investigator:
Jeffrey Siracuse, MD, MBA
Sponsor: W. L. Gore & Associates
Grant amount: \$20,000

ONGOING

Targeting Senescence to Improve Wound Healing in Aging

Principal Investigator:
Daniel Roh, MD, PhD
Sponsor: National Institutes of Health/National Institute on Aging
Grant amount: \$1,215,000

Targeting Senescence to Improve Wound Healing in Aging

Principal Investigator:
Daniel Roh, MD, PhD
Sponsor: Hevolution Foundation/American Federation for Aging Research
Grant amount: \$373,000

Understanding Rural Mortality Disparities in Cancer: A Multi-level Approach

Principal Investigator:
Kelly Kenzik, PhD, MS
Sponsor: National Institutes of Health/National Cancer Institute
Grant amount: \$1,381,999

Understanding Rural Mortality Disparities in Cancer: A Multi-level Approach (R37 Supplement with Crisanto Torres, MD, MPH)

Principal Investigator:
Kelly Kenzik, PhD, MS
Sponsor: National Institutes of Health/National Cancer Institute
Grant amount: \$423,009

BEST-CLI Data Analysis and Publications Core

Principal Investigator:
Alik Farber, MD, MBA
Sponsor: Novo Nordisk Foundation
Grant amount: \$1,107,933

Mechanism of Trypsin Activation in Pancreatitis

Principal Investigator:
Andrea Geisz, PhD, MS
Sponsor: National Institutes of Health/National Institute of Diabetes and Digestive and Kidney Diseases
Grant amount: \$1,800,480

Impact of Biological, Clinical, and Social Determinants on Trauma and Trauma Outcomes

Principal Investigators:
Daniel Remick, MD; **Kelly Kenzik, PhD, MS**
Sponsor: National Institutes of Health/National Institute of General Medical Sciences
Grant amount: \$1,254,240

Community Violence Response Team

Principal Investigator:
Lisa Allee, MSW, LICSW
Sponsor: Massachusetts Office for Victim Assistance
Grant amount: \$757,850

Selected Clinical Research Projects

There are 113 open clinical research protocols in the Department of Surgery, managed by dedicated teams of researchers in state-of-the-art facilities within the Boston University Chobanian & Avedisian School of Medicine/Boston Medical Center.

Selected Clinical Trials Currently Open for Enrollment

DIVISION OF GENERAL SURGERY, SECTION OF ENDOCRINE SURGERY

Comparison of Outcomes of Antibiotic Drugs and Appendectomy (CODA) Trial

BMC Site Co-Principal Investigator:

F. Thurston Drake, MD, MPH

BMC Site Co-Principal Investigator:

Sabrina Sanchez, MD, MPH

Sponsor: Patient-Centered Outcomes Research Institute (PCORI)

DIVISION OF VASCULAR AND ENDOVASCULAR SURGERY

Phase 1/2 Open-Label & Double-Blind Randomized Placebo-Controlled Study to Assess the Feasibility of BGC101 in the Treatment of PAD with CLI

Principal Investigator:

Jeffrey Siracuse, MD, MBA

Sponsor: BioGenCell Ltd.

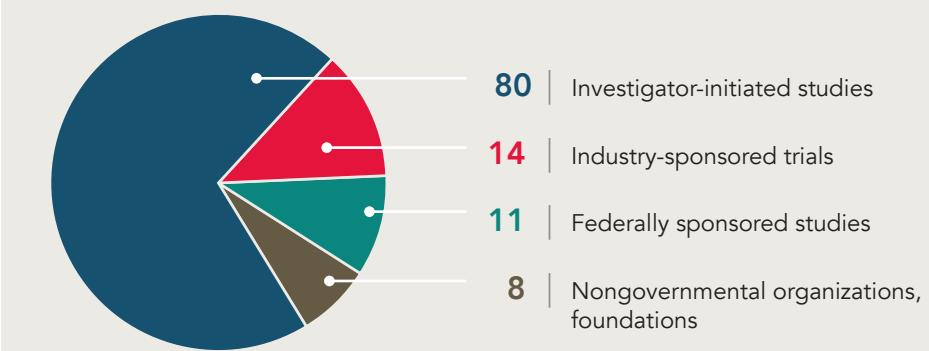
A Prospective, Global, Multicenter, Single-Arm Post-Approval Study Investigating the Clinical Use and Safety of the LUTONIX Drug-Coated Balloon PTA Catheter for the Treatment of Dysfunctional AV Fistulae (Lutonix AV PAS)

Principal Investigator:

Elizabeth King-Paulson, MD

Sponsor: Bard, Inc.

DEPARTMENT OF SURGERY PORTFOLIO OF CLINICAL RESEARCH PROJECTS (N=113), FY 2024



A Phase 3 Randomized Study to Compare the Efficacy and Safety of the Humacyte Human Acellular Vessel (HAV) with that of an Autogenous Arteriovenous Fistula (AVF) in Female Patients with End-Stage Renal Disease Requiring Hemodialysis

Principal Investigator:

Jeffrey Siracuse, MD, MBA

Sponsor: Humacyte Global, Inc.

A Prospective, Multi-Center, Non-Randomized, Single-Arm Study of the BDTM Low Profile Vascular Covered Stent in Peripheral Artery Disease (AGILITY)

Principal Investigator:

Jeffrey Siracuse, MD, MBA

Sponsor: Bard Peripheral Vascular, Inc.

SECTION OF COLON AND RECTAL SURGERY

The Comparison of Surgery and Medicine on the Impact of Diverticulitis (COSMID) Trial

Principal Investigator:

Jennifer Davids, MD

Sponsor: George Washington University

A Study to Evaluate the Safety and Effectiveness of the Standard of Care Diversion, Diverting Ileostomy, Following Low Anterior Resection

Principal Investigator:

Jennifer Davids, MD

Sponsor: SafeHeal, Inc.

Publications

Research conducted by faculty, residents, and fellows in the Department of Surgery is published widely in leading journals and textbooks. During the 2023–2024 academic year, the department had more than 165 articles published in peer-reviewed journals and five published books or book chapters.

Selected Papers

Association of Race, Ethnicity, Language, and Insurance with Time to Treatment Initiation Among Women with Breast Cancer at an Urban, Academic, Safety-Net Hospital. **Beaulieu-Jones BR**, Ha EJ, Fefferman A, Wang J, **Chung SH**, Tseng JF, Merrill A, **Sachs TE**, Ko NY, **Cassidy MR**. Ann Surg Oncol. 2024 Mar; 31(3):1608-1614.

Trends in Access to Minimally Invasive Pancreaticoduodenectomy for Pancreatic Cancers. **Seldomridge AN**, **Rasic G**, Papageorge MV, Ng SC, de Geus SWL, Woods AP, **McAneny D**, Tseng JF, **Sachs TE**. HPB (Oxford). 2024 Mar; 26(3):333-343.

Delay and Disparity in Observed vs Predicted Incidence Rate of Screenable Cancer During the COVID-19 Pandemic. **Romatoski KS**, **Chung SH**, **Kenzik K**, **Rasic G**, Ng SC, Tseng JF, **Sachs TE**. J Am Coll Surg. 2023 Sep 01; 237(3):420-430.

Limited English Proficiency and Graves' Disease at an Urban Safety-Net Hospital. Annesi CA, Woods AP, Kim NE, Pearce EN, Merrill AL, **McAneny D**, **Drake FT**. J Surg Res. 2024 Apr;296:56-65. Epub 2024 Jan 13.

Assessing Time to Removal of Tunneled Dialysis Catheters after Arteriovenous Access Creation. **Kobzeva-Herzog AJ**, Levin SR, Young S, McNamara TE, **Alonso AG**, **Farber A**, **King EG**, **Siracuse JJ**. Ann Vasc Surg. 2024 May:102:35-41. Epub 2024 Feb 2.

BEST-CLI International Collaborative: Planning a Better Future for Patients with Chronic Limb-Threatening Ischaemia Globally. **Farber A**, Menard MT, Bonaca MP, Bradbury A, Conte MS, Debus ES, Eldrup N, Goodney P, Gupta PC, Hinchliffe RJ, Houlind KC, Kolh P, Kum SWC, Nordanstig J, Parikh SA, Patel MR, Patrone L, Sillesen H, Strong MB, Varcoe RL, Vega de Ceniga M, Venermo MA, Rosenfield K. Br J Surg. 2024 Jan 31;111(2).

Investigator Attitudes on Equipoise and Practice Patterns in the BEST-CLI Trial. J Vasc Surg. 2024. **Farber A**, **Siracuse JJ**, Giles K, Jones DW, Laskowski IA, Powell RJ, Rosenfield K, Strong MB, White CJ, Doros G, Menard MT. Apr;79(4):865-874. Epub 2023 Dec 5.

Outcomes of Lower Extremity Revascularization in Octogenarians and Nonagenarians for Intermittent Claudication. **Haqqani MH**, Kester LP, Lin B, **Farber A**, **King EG**, **Cheng TW**, **Alonso A**, Garg K, Eslami MH, Rybin D, **Siracuse JJ**. J Vasc Surg. 2023 Dec;78(6):1479-1488.e2. Epub 2023 Oct 6.

Perioperative Complications Following Open or Endovascular Revascularization for Chronic

Limb-Threatening Ischemia in the BEST-CLI Trial. **Siracuse JJ**, **Farber A**, Menard MT, Conte MS, Kaufman JA, Jaff M, Kiang SC, Ochoa Chaar CI, Osborne N, Singh N, Tan TW, Guzman RJ, Strong MB, Hamza TH, Doros G, Rosenfield K. Randomized Controlled Trial. J Vasc Surg. 2023 Oct;78(4):1012-1020.e2. Epub 2023 Jun 14.

Timing to First Whole Blood Transfusion and Survival Following Severe Hemorrhage in Trauma Patients. **Torres CM**, **Kenzik KM**, **Saillant NN**, **Scantling DR**, **Sanchez SE**, Brahmbhatt TS, **Dechert TA**, Sakran JV. Comment JAMA Surg. 2024 Apr 1;159(4):374-381.

Social Determinants of Health Associated with the Need for Urgent Versus Elective Cholecystectomy at an Urban, Safety-Net Hospital. **Myers S**, **Kenzik K**, **Allee L**, **Dechert T**, **Theodore S**, **Jaffe A**, **Sanchez SE**. Surg Infect (Larchmt). 2024 Mar;25(2):101-108. Epub 2024 Feb 1.

Death by the Minute: Inequities in Trauma Care for Victims of Firearm Violence. **Poulson M**, Jay J, **Kenzik K**, **Torres C**, **Sanchez SE**, **Saillant N**, Holena D, Galea S, **Scantling D**. J Trauma Acute Care Surg. 2024 Apr 1;96(4):589-595. Epub 2023 Nov 23.

Prospective Study of a System-Wide Adrenal Incidentaloma Quality Improvement Initiative. Woods AP, Feeney T, Gupta A, Knapp PE, **McAneny D**, **Drake FT**. J Am Coll Surg. 2024 May 1;238(5):961-970. Epub 2024 Apr 17.

Familiarity, Communication, and Entrustment in the Operating Room. **Pernar LI**. JAMA Surg. 2024 Mar 1;159(3):285-286.

Management of Penetrating Cardiac Injury and Tricuspid Regurgitation with Extracorporeal-Membrane Oxygenation (ECMO): A Case Report. **Karavas AN**, Olia K, **Scantling D**, **Nudel J**, Kriegel J, Edwards NM. Case Reports, J Cardiothorac Surg. 2024 Feb 6;19(1):64.

The Evaluation and Management of Intestinal Ischemia. **Theodore S**, Xia T, **Saillant N**. Review NEJM Evid. 2024 Apr;3(4):EVIDra2400057. Epub 2024 Mar 26.

Disparities in Rectal Cancer Care—What Are We Missing? **Sacks OA**, **Davids JS**. JAMA Surg. 2023 Nov 1;158(11):1203.

Genetic Ablation of the C-Type Lectin Receptor CLEC2D Increases Peritonitis Mortality, Inflammation and Physiology Without Diminishing Organ Injury. **Stolarski AE**, Lai JJ, Kim J, Rock KL, Remick D. Shock. 2024 Jun 11. Online ahead of print.

Invited Commentary: Impact of Preoperative Weight Loss on 30-Day Complication Rate after

Bariatric Surgery. **Hess DT**. J Am Coll Surg. 2024 Jun 01; 238(6):999-1000.

Sustained Success of a Caprini Postoperative Venous Thromboembolism Prevention Protocol Over One Decade. **Anna J Kobzeva-Herzog**, Akshay Ravandur, **Spencer B Wilson**, **Pamela Rosenkranz**, Stephanie D Talutis, Ryan Macht, **Michael R Cassidy**, **Jeffrey J Siracuse**, **David McAneny**. Am J Surg. 2024 May 28:115783. Online ahead of print.

Higher Stroke Risk After Carotid Endarterectomy Associated with Surgeons Who Perform Transcarotid Revascularization for the Majority of Interventions. **Alonso A**, Ribyn D, **Kobzeva-Herzog A**, **Yahn C**, **Farber A**, **King EG**, Hicks C, Eslami MH, Patel VI, Rybin D, **Siracuse JJ**. J Vasc Surg. 2024 Jun 19:S0741-5214(24)01214-X. Online ahead of print.

Comparing Healthcare Needs in Extremely Low Birth Weight Infants with NEC and Spontaneous Intestinal Perforation. **Chugh PV**, Nes E, Culbreath K, Keefe G, Edwards EM, Morrow KA, Ehret D, Soll RF, Modi BP, Horbar JD, Jaksic T. J Pediatr Surg. 2024 Mar 16. Online ahead of print.

Scheduled Follow-Up and Association with Emergency Department Use and Readmission after Trauma. **Sophia M Smith**, Xuewei Zhao, **Kelly Kenzik**, Cara Michael, Kendall Jenkins, **Sabrina E Sanchez**. J Am Coll Surg. 2024 Apr 17. Online ahead of print.

Nearly 20 Years Since the Federal Ban: Can State-Level Assault Weapon Prohibitions Fill the Void? Comparative Analysis of Case Fatality and Assault Weapon Recovery in States With and Without an Assault Weapon Ban. **Beaulieu-Jones BR**, Sunkara N, **Kenzik K**, Davis ES, **Torres CM**, Seamon MJ, **Sanchez SE**, **Scantling D**.

Characterization of Cardiovascular Serious Adverse Events after Bypass or Endovascular Revascularization for Limb-Threatening Ischemia in the BEST-CLI Trial. **Siracuse JJ**, Menard MT, Rosenfield K, Conte MS, MD, Powell RJ, MD, Hamburg N, Doros D, Strong MB, **Farber A**. J Vasc Surg. 2024 Apr 16:S0741-5214(24)00987-X. Online ahead of print.

Quality of Life in Patients With Chronic Limb-Threatening Ischemia Treated With Revascularization. Menard TM, **Farber A**, Powell RJ, Rosenfield K, Conte MS, Hamza TH, Kauffman JA, Cziraky MJ, Creager MA, Dake MD, Jaff MR, Reid D, Sopko G, White CJ, Strong MB, van Over M, Chisci E, Goodney PP, Gray B, Kayssi A, **Siracuse JJ**, Choudhry NK. Circulation. 2024 Apr 16;149(16):1241-1253. Epub 2024 Apr 10.



Shaping the Future

The tripartite mission of patient care, education, and research is strong in the Department of Surgery. Our innovative educational initiatives and award-winning resident-as-teacher curriculum prepare future surgeons to practice in a changing world.

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Alumni and other friends: Please keep in touch!

Reach us at: surgery@bu.edu

**Boston University Chobanian & Avedisian School of Medicine/
Boston Medical Center Department of Surgery**

85 East Concord Street, Suite 3000, Boston, MA 02118

Phone: 617.638.8609 | E-mail: surgery@bu.edu | Website: bumc.bu.edu/surgery

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