

Michael E. DeBakey



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> Baylor College of Medicine

It has been a great privilege to serve as chair of the Michael E. DeBakey Department of Surgery for the past decade. This journey began with our welcoming Denton A. Cooley, M.D., back as a distinguished emeritus professor. It has been marked by the comments of family and protégés of Dr. DeBakey commending our progress and noting that he would have been proud of the department today. Reflecting on these and other events, I am pleased to share this report.

Some highlights of the past 10 years include our being consistently ranked as "Top 20" among departments of surgery by U.S. News & World Report, exceeding \$16 million in extramural research funding, becoming one of the largest surgical training programs in the nation and increasing our surgery volume by threefold.

The expansion of our department to 16 divisions and sections, nearly 240 faculty and 600 department members is evidence of our strong growth. In the past 10 years, we have recruited over 170 faculty physicians and scientists, more than 70% of whom are women or underrepresented minorities.

The new procedures and technologies we have pioneered over the past decade continue the DeBakey legacy of innovation. These and other advances, including robotic cardiothoracic and scarless transoral thyroid surgery, have led to historic case volumes in transplantation, congenital heart surgery, robotic heart and lung surgery and more.

Our Office of Surgical Research oversees more than 400 grants and clinical trials, including breakthrough research in cell and gene therapy, immunotherapy and machine learning. Programmatic innovations that have become core resources at Baylor College of Medicine and other institutions include our academic relative value unit (aRVU) model, Global Surgery and Innovations residency tracks, INSTINCT Surgery Incubator, Surgical Simulation Lab and CfAST Center for Advanced Surgical Therapeutics.

We have also seen the growth of a richly diverse, inclusive and collaborative culture. This culture is reflected in our current 94% ACGME resident approval rating, 97% faculty retention rate and nearly 90% AAMC faculty satisfaction score. These all exemplify a modern #DeBakeySurgeon.

> Todd K. Rosengart, M.D., F.A.C.S. Professor and Chair Department of Surgery



By the Numbers





Divisions and Sections



130

Residency

and fellowship

programs

Residents and fellows



NIH funding



Extramural research funding

ARRADARAR JUL LA LAL Faculty, staff and trainees

#DeBakeySurgeon

1,35 Alumni

30K/100K

Surgical cases

Endowed chairs and professorships

Resident approval (ACGME survey)



Surgery Graduate programs U.S. News & World Report



Patient visits

Mission RESEARCH



Our research program expansion is accelerating. More than 50 research and clinical trial coordinators and other staff in our Office of Surgical Research manage over \$16 million in research funding and over 400 grants and clinical trials.



NIH-funded department researchers are studying key tumorigenic molecules such as mesothelin, trop 2 and sempaphorin 3E. Research in the department led by Vice Chair for Research Scott LeMaire, M.D., is growing at an accelerating pace. More than 50 staff members in the Office of Surgical Research, manage total extramural funding support exceeding \$16 million and oversee more than 400 grants and clinical trials.

Livia Eberlin, Ph.D., director of translational and innovations research, a MacArthur Fellow and prolific researcher, has energized our basic science research with new seminar series and team events, and redirected the efforts of the Interdisciplinary Surgical Technology and Innovation Center (INSTINCT).

INSTINCT seeks to foster and streamline the development of new medical technologies in the department. The program offers our scientist and inventors support for design innovation, invention disclosure, prototyping and product commercialization. Since its launch, INSTINCT has yielded more than 90 patent disclosures, seven licenses and over a half-dozen commercial startups.

Catalysts of our research growth include our seed grant program that funds junior faculty and advanced practice providers. The 17 grants worth \$340,000 funded by this program since 2014 have returned nearly \$6.4 million in extramural funding an astounding 1,800% return on investment. Similar seed programs with Rice University and colleagues in our basic science departments represent other foundational collaborations. Our grant peer review program, leveraging the experience of senior faculty, has generated a 25% funding rate on submitted grants.

Mission **EDUCATION**

Our 16 residency and fellowship programs provide leading-edge training to 130 residents and fellows in specialties ranging from trauma and plastic surgery to cardiothoracic transplantation and congenital heart surgery.

Our 16 residency and fellowship programs train 130 postgraduates at four hospital affiliates in the Texas Medical Center and satellite programs, including suburban Colorado and rural Texas. The training includes specialties ranging from acute care surgery to transplantation and from advanced neonatal surgery to caring for the underserved. Our programs attract the top 10% of U.S. medical students and our Summer Surgery Program for undergraduate and medical students draw potential surgeons from around the nation.

We have expanded our general surgery program to 10 categorical positions-making it one of the nation's largest. Through this expansion, we have added tracks in vascular surgery, thoracic surgery, global surgery and design-innovation and have created an NIHfunded T32 Research Training Program in Cardiovascular Surgery.

Launched in 2015 and still the only National Resident Matching Program-listed residency track in the nation, the Global Surgery Track provides experience in the "44 essential skills" for performing surgery in under-resourced communities. Our global surgery trainees treat the underserved in our community and study global health abroad at the WHO and other international agencies.

Launched this past year, our Innovation Track gives trainees opportunities to design and prototype medical devices and participate in science initiatives in he Texas Medical Center and offsite academic and industry incubators.

Innovative programs such as Chalk Talk and Movie Night foster team transparency and respect while bringing together trainees and faculty to discuss surgical techniques and clinical care.

Our Human Factors and resident-led clinical quality improvement programs provide a framework to identify and prevent adverse clinical events through campus-wide quality improvement and cognitive training initiatives.







Mission HEALTHCARE

BEST HOSPITALS USIN EVORUBREPORT CARDIOLOGY & HEART SURGERY 2022-23

Growth of Surgery Faculty



Our department performs over 30,000 surgical cases and 100,000 patient visits annually.

Growth of Surgical Volume







2022-23



PULMONOLOGY &

Christy Chai, M.D., Chief of General Surgery and Surgical Oncology at the Michael E. DeBakey VA Medical Center

Patients and colleagues from around the world seek our highly trained and specialized surgeons who care for patients at four renowned hospitals (Baylor St. Luke's Medical Center, the Michael E. DeBakey Veterans Affairs Medical Center, Ben Taub Hospital and Texas Children's Hospital) and more than a half dozen satellite programs. Under the leadership of William Fisher, M.D., vice chair for clinical affairs, we perform more than 30,000 surgical cases and conduct 100,000 patient visits annually. Our high quality clinical outcomes include "TQIP" top ranking for our Ben Taub trauma surgery program, Center of Excellence designations for our bariatric surgery and transplantation programs, and U.S. News & World Report top-tier rankings for all five of our eligible surgery service lines (cardiac, cancer, gastroenterology, thoracic and pediatric surgery).

Our surgical pioneers continue to develop advanced techniques and technologies that transform surgery. Kenneth Liao, M.D., Ph.D. has established one of the nation's largest and fastest growing robotic heart programs. Raymon Grogan, M.D. has developed the scarless transoral thyroid surgery technique and is one of the world's highest-volume experts in this procedure. Bryan Burt, M.D., has likewise pioneered a transthoracic robotic approach for treating thoracic outlet syndrome and Joseph Coselli, M.D., is one of the all time highestvolume surgeons for performing thoracoabdominal aortic surgeries.

This past year we established the Center for Ambulatory Surgery Therapeutics, an officebased ambulatory surgery program that partners with its sister Office-Based Endovascular Lab, launched in 2019, to provide expeditious, cost-effective and patient-centered care. The department is further leading efforts at Baylor to extend our surgical programs and establish faculty practices at our CommonSpirit Health hospital affiliates throughout the Houston and southeast Texas regions.

Mission OUTREACH & INCLUSION

Outreach

The department's outreach mission continues its long-standing commitment to provide surgical care to underserved communities around the globe. The Center for Global Surgery is led by Rachel Davis, M.D., who founded our Global Surgery Residency Track while still a surgery resident. The program strives to improve the healthcare of those with limited resources through the efforts of our complement of seven global surgery trainees. We are excited about new collaborations which will aid in this effort, including one with the Baker Institute for Public Policy at Rice University to study firearms safety.

Other well-established collaborations include Smile Train, which has performed more than 1.2 million procedures, including more than 150,000 pediatric cleft surgeries annually in 85 countries. Our Surgical Saturdays program likewise offers free surgical procedures for patients in need in our community and the Reach for the Stars STEM Festival engages young women in high schools to inspire them to pursue careers in science and engineering.

Inclusion

Our inclusion initiatives have expanded the diversity and engagement in the department. Over the past 10 years, 75% of our faculty recruits have been women and underrepresented minorities. Our Staff Council and our Outreach and Inclusion Committee, led by Vice Chair for Outreach and Inclusion Michele Loor, M.D., supports equity in faculty and staff promotion and compensation as well as other outreach and wellness programs. Amongst other initiatives, the efforts of the committee have led to far greater representation of women and underrepresented minorities among our grand rounds speakers, the institution of promotions workshops and a compensation dashboard to promote transparency and equity in faculty advancement.



Faculty Diversity



From 2012 to 2022, underrepresented minority faculty members have increased from 37% to 54% and female faculty members have increased

ABDOMINAL TRANSPLANTATION

Since its inception in the 1990s, the division is one of the highest volume programs in the United States. Its five division surgeons have performed more than 2,300 liver transplants and 2,500 kidney transplants with outcomes that significantly exceed UNOS expectations.

Since its inception in the 1990s, the Division of Abdominal Transplantation remains one of the highest-volume programs in the United States. The surgical team has performed more than 2,300 liver transplants and 2,500 kidney transplants with outcomes that significantly exceed UNOS expectations. The pediatric liver transplant program is the largest in the country. Notably the faculty has performed many firsts in the Texas Medical Center: in-situ-split adult-pediatric liver transplant, adult-adult split liver transplant and adult living donor liver transplant.

As a core element of our multidisciplinary Transplant Institute, led by Division Chief John Goss, M.D., the division offers patients access to clinical trials of the latest diagnostic tests and therapies through the Advanced Liver Therapies Research Center.





Our Immune Evaluation Laboratory continues to expand its research activities as the largest program of its kind in the Texas Medical Center. The Clinical Research Collaborative, through a National Science Foundation grant, is pursuing machine-learning techniques to improve predictive models in transplant medicine. Other faculty are embarking on 3D bio-additive implantable artificial kidneys as the next era of transplant medicine. The division also provides outstanding clinical training for the next generation of transplant surgeons through its highly-sought two-year transplant fellowship.

CARDIOTHORACIC SURGERY

The Division of Cardiothoracic Surgery continues the groundbreaking work of Michael E. DeBakey, M.D., Denton Cooley, M.D., and E. Stanley Crawford, M.D., in advancing the surgical treatment of cardiothoracic disease. Succeeding the historic 20-year tenure of Joseph Coselli, M.D., Marc Moon, M.D., serves as division chief as well as chief of cardiac surgery at Texas Heart Institute. The department now boasts a record of four former presidents of the American Association for Thoracic Surgery (including Dr. DeBakey).

> **Top 3** Robotic cardiac surgery case volume in the U.S.



The division and its 20 faculty surgeons performmore than 2,000 surgical procedures annually at all three of our primary adult hospital affiliates. These surgical procedures range from robotic valve and coronary surgery to thoracoabdominal aneurysm repair. The division has one of the largest and fastest growing robotic valve and coronary surgery practices in the United States, led by Kenneth Liao, M.D., Ph.D. Dr. Coselli and team are among the world's most-experienced surgeons in thoracoabdominal aneurysm repair, with more than 3,700 total cases. Additionally, our division surgeons have also performed well over 1,000 TAVR procedures.

The research portfolio of the six research faculty in the division includes more than \$1.5 million in NIH funding for studies of the pathogenesis of aortic disease, gene therapy to treat end-stage coronary disease and the application of cell reprogramming to treat heart failure.



Our NIH-funded Laboratory for Cardiac Regeneration has multiple patent claims describing techniques to regenerate functional myocardium from cardiac scar tissue. The Aortic Disease Research Lab maintains one of the world's most extensive aortic tissue banks, enabling high-quality research at Baylor and other academic institutions around the world. Clinical faculty also participate in multiple other studies as a member institution of the NIH Cardiothoracic Surgical Trials Network.

With more than 20 residents and fellows, the division supports one of the largest cardiac surgery training programs in the United States. It offers traditional and integrated tracks and a specialty fellowship in aortic surgery. Our select NIH T32 Research Training Program in Cardiovascular Surgery provides M.D.s and Ph.D.s with two years of dedicated research training.

Aortic Surgical Experience



CARDIOTHORACIC **TRANSPLANTATION** & **CIRCULATORY SUPPORT**

Division Chief Kenneth Liao, M.D., Ph.D., and team recently celebrated completion of their 350th robotic cardiac surgery procedure.



Division Chief Kenneth Liao, M.D., Ph.D., is also one of a group of hand-selected investigators in the EXPAND Heart Trial that led to FDA approval for this donor heart ex vivo preservation technology. Bud Frazier, M.D. and Billy Cohn, M.D., are also in final pre-clinical testing of a revolutionary, continuous flow total artificial heart. Dr. Frazier continues NIH-funded development of a next-generation pediatric ventricular assist device.

BIVACOR total artificial heart being developed in collaboration with the Texas Heart Institute.

Following the legacy of iconic leaders, including George Noon, M.D., and O.H. "Bud" Frazier, M.D., the division continues to set standards and make advances in treating advanced heart and lung failure. With innumerable firsts and its performance of more than 1,560 heart transplants and 1,550 left ventricular assist device implants, this division remains one of the world's highest volume programs in heart transplantation and circulatory support. Ranking in the top quarter in outcomes by UNOS and INTERMACS, the programs have been granted Center of Excellence status by regional and national certifying agencies.

Among its many research efforts, the division is a national leader of the EvaHeart LVAD trial led by Alexis Shafii, M.D., principal investigator. Gabriel Loor, M.D., served as national principal investigator for the breakthrough EXPAND Lung Trial, which examined ex vivo lung perfusion for donor lung resuscitation and laid the foundation for FDA approval of the device.





In addition to participating in the thoracic residency program, the division currently offers one-year fellowships in cardiothoracic transplantation and mechanical circulatory support as well as robotic and minimallyinvasive cardiac surgery.



CONGENITAL HEART SURGERY

The division is a key member of the Texas Children's Heart Center, ranked first nationally for the past six years by *U.S. News & World Report.*

The division is a global leader in pediatric congenital heart surgery, cardiac transplantation, lung transplantation, mechanical circulatory support and surgical treatment of adults with congenital heart disease. Founded in 1954, it is one of the oldest such specialty groups in the world. The seven faculty surgeons perform more than 1,000 congenital open heart and more than 50 heart and lung transplantation procedures annually.

Led by Chris Caldarone, M.D., and Surgical Director for Heart and Lung Transplantation Jeffrey S. Heinle, M.D., the program is a national leader for volume in congenital heart surgery and cardiothoracic transplantation. The division is a key member of the Texas Children's Heart Center, ranked first nationally by U.S. News & World Report for the last six years. The Heart Center is located in a state-of-the-art facility and includes 58 ICU beds, four operating rooms and four catheterization labs. Division faculty hold NIH funding to develop a pediatric ventricular assist device. In addition to participating in the department's thoracic surgery residency, the division offers a congenital cardiac surgery fellowship, one of only 15 such programs nationwide.

Congenital Heart Procedures





Division Chief Christopher Caldarone, M.D., (pictured left), along with Iki Adachi, M.D., and Jeffrey Heinle, M.D., use an intensive team-based approach to optimize outcomes for every patient treated for congenital heart disease.

METABOLIC & BARIATRIC SURGERY

The Baylor St. Luke's Medical Center Weight Loss and Metabolic Center is staffed by a team of surgeons in the Division of Metabolic and Bariatric Surgery, the surgeons work with colleagues in gastroenterology and a multidisciplinary group of dietitians, psychologists, physical therapists and other staff to provide a comprehensive portfolio of care for those with morbid obesity.

Under the leadership of Division Chief Samer Mattar, M.D., past president of the American Society for Metabolic and Bariatric Surgery, the program in 2020 became one of our newest divisions, reflecting the complexity and specialization of this discipline. The program has since achieved American College of Surgeons accreditation and Blue Cross/Blue Shield Center of Distinction, joining fewer than 25% of bariatrics programs in the nation with this rating. The center most recently received a coveted Center of Excellence designation from the Optum Clinical Sciences Institute.

Offering a broad array of both robotic surgical procedures and outpatient endoscopic interventions performed in collaboration with colleagues in gastroenterology, the program achieves high-quality care, low mortality rate and low inpatient hospital readmissions and reoperations compared to national averages. Community education efforts include virtual, on-site and community-based seminars by faculty and staff that have yielded significant annual program growth.



The program is recognized by Blue Cross/Blue Shield as a Blue Distinction Center and an Optum Center of Excellence.

Afrier G. Mattai, MD Bariatric Surgery

PEDIATRIC SURGERY

Division Chief Sundeep Keswani, M.D., leads one of the world's largest pediatric surgical programs that includes 17 faculty surgeons overseeing multiple specialty programs, including those treating solid tumors, adolescent obesity, colorectal disease, pediatric trauma and congenital deformities. The division supports one of only five major fetal centers in the United States that performs complex in-utero procedures. These top-ranked programs have contributed to the reputation of Texas Children's Hospital, recognized by U.S. News & World Report as first in Texas and second in the nation among children's hospitals.

> in Texas by U.S. News & World Report

Division faculty are engaged in a wide variety of research efforts including NIH-funded studies of tissue regeneration and cardiac repair, a pending FDA-approved study of gastroschisis repair, and foundation-funded studies for the development of new in-utero surgical techniques.

The division's pediatric surgery fellowship program is regarded as one of the best and most highly competitive in the nation.



Surgical Volume

Texas Children's Fetal Center[®] is one of only five major fetal centers in the United States that performs complex in-utero procedures and is one of the nation's leaders in the diagnosis and treatment of abnormalities in unborn and newborn infants.



Photo by Allen Kramer, courtesy Texas Children's Hospita



PLASTIC SURGERY

With 18 trainees, our six-year integrated residency in plastic surgery is one of the largest, longest established and consistently top-ranked plastic surgery residency programs in the country.

The Division of Plastic Surgery provides adult and pediatric surgical care including reconstructive surgery for adult trauma, breast microsurgical reconstruction, lymph node transplantation for the treatment of post-mastectomy lymphedema and various other procedures for the correction of congenital defects.

Our pediatric plastic surgery practice is one of the largest congenital reconstruction programs in the nation and includes 12 plastic surgeons,fourpediatricplasticandorthopedictrained hand surgeons, two craniofacial orthodontists and an oral surgeon. Our adult plastic surgery program collaborates with dermatology and otolaryngology to perform elective outpatient cosmetic surgery at the Baylor Medicine Aesthetics Center. Division faculty pursue a wide variety of clinical and basic science research projects generating more than 100 peer-reviewed publications annually. One example of the innovation led by the division is the newly formed discipline of spino-plastic reconstruction, a surgical technique providing enhanced access for spinal stabilization procedures. More than 100 clinicians and researchers have attended our annual spino-plastic reconstruction conferences co-sponsored by the Department of Neurosurgery to learn about this new subspecialty.

With 18 trainees in a six-year integrated track, our plastic surgery residency program is one of the largest, longest established, and consistently most highly rated programs in the United States.



Developed by the Division of Plastic Surgery and the Department of Neurosurgery, the newly formed discipline of spino-plastic reconstruction brings together the expertise of orthopedics, neurosurgery and plastic surgery to provide highly creative surgical techniques to treat challenging spinal pathology.

SURGICAL ONCOLOGY



The Division of Surgical Oncology and collaborative sections for breast, colorectal, endocrine and hepato-pancreato-biliary (HPB) surgery includes 22 faculty physicians and scientists, with 16 surgeons practicing at all three of our adult hospital affiliates. Division Chief E. Ramsay Camp, M.D. is service line chief for oncology at Baylor St. Luke's Medicial Center and chair of our membership in the American College of Surgeons Commission on Cancer.

The division is a core leader of our NCIdesignated Dan L Duncan Comprehensive Cancer Center, one of only 48 such centers in the United States. Our expert faculty members work closely with multidisciplinary units at the cancer center advancing innovative surgical procedures ranging from trans-anal colorectal surgery to scarless transoral thyroid procedures pioneered by Section Chief Raymon Grogan, M.D.-one of only a few surgeons in the world offering this technique.

Scarless transoral thyroid procedures allow thyroid and parathyroid surgery without an external incision.

These efforts have helped both our cancer and gastroenterology programs attain top 25 ranking by U.S. News & World Report.

Research in the division ranges from NIH-funded basic science studies of immunotherapy and checkpoint inhibitor interventions to the NIH-funded research of Livia Eberlin, Ph.D., using mass spectrometry to identify tumor margins in real time intraoperatively. Our clinical research features the international leadership of Alastair Thompson, M.D., section chief for breast oncology, a who is investigating margin analysis techniques and other new breast cancer therapies. Our high-volume HPB group, performing more than 100 Whipple procedures annually, leads an NIH-funded multicenter trial under the direction of William Fisher, M.D., to examin microbiota for the early detection of pancreatic cancer.



Mass Spec Pen developed by Livia Eberlin, Ph.D., director for translational and innovations research, in collaboration with surgical oncologist James Suliburk, M.D., detects molecular markers of malignancies in real time to identify cancerous tumors and tumor margins intraoperatively.



THORACIC SURGERY

The division was founded in 2014 by David J. Sugarbaker, M.D., and has performed more than 1,000 operations annually for malignant and benign thoracic conditions. Division surgeons have performed more than 1,100 total robotic thoracic procedures.

The Division of Thoracic Surgery was founded in 2014 by David J. Sugarbaker, M.D. and renamed in his honor in 2022–the only named division in our department. The division has grown to perform more than 1,000 operations annually for malignant and benign thoracic conditions and has performed more than 1,100 total robotic thoracic procedures.

The Mesothelioma Treatment Center, Center for Dysphagia and Swallowing Disorders and Thoracic Outlet Clinic have become national referral destinations performing procedures ranging from extrapleural pneumonectomy for mesothelioma to robotic thoracic outlet syndrome surgery.

Research in the division is performed in two NIH-funded laboratories-the Surgery Systems Onco-Immunology Laboratory and the Thoracic Carcinogenesis Laboratory. These programs are funded by grants from the Cancer Prevention and Research Institute of Texas (CPRIT), the Department of Defense and the National Cancer Institute, including a prestigious NIH R37 research grant to Bryan Burt, M.D.

In addition, faculty are NIH-funded to study the proteomic determinants of response to checkpoint blockade, mitochondrial mechanisms induced by environmental exposures that initiate carcinogenesis, and live-tumor cell bioassays called dynamic BH3 profiling that predicts therapeutic synergy in malignant pleural mesothelioma, lung cancer, and esophageal cancer.

Division faculty train the next generation of thoracic surgeons in three distinct graduate medical education tracks: a dedicated thoracic track residency program, a thoracic residency program and an independent, advanced fellowship.



Friends and colleagues of David J. Sugarbaker, M.D., gathered with members of his family to dedicate the division in his honor and to celebrate the establishment of an endowed fund in his memory.

> 1,100 Total robotic thoracic procedures



Robotic Thoracic Cases





TRAUMA & ACUTE CARE SURGERY

Deploying state-of-the-art intensive care in five ICUs supporting 100 critical care beds across the Texas Medical Center, the division's clinical programs are first in class. The Ben Taub trauma program regularly leads the nation in the ACS Trauma Quality Improvement Program quality performance.

Created in 2021, the new Division of Trauma and Acute Care Surgery leverages our world-class American College of Surgeons "TQIP"-leading trauma program at Harris Health's Ben Taub Hospital, one of two level I trauma centers in the surrounding Houston area. The division also supports the quaternary critical care efforts of faculty overseeing 100 critical care beds in five intensive and intermediate care units across the Texas Medical Center.

The division includes 24 surgeons and 12 advance practice provider faculty, making it the largest division in our department. Led by Martin Zielinski, M.D., recently recruited from the Mayo Clinic to serve as our inaugural division chief, the division also leads sub-specialty programs including elective and emergency general surgery at each of our affiliates and the new Baylor Medicine Hernia Center. Research in the division includes community and international health services projects at our Center for Global Surgery to improve care of the underserved and a new health policy collaboration with the Baker Institute at Rice University expected to further expand the range of this outreach effort. Biomaterials research in collaboration with the Hernia Center seeks to develop more durable biografts for surgical reconstruction.

Our critical care fellowship trains four fellows annually and was recently expanded to a second year to allow acute care surgery training in a faculty instructor position.





Harris Health System leadership dedicated their new, hybrid surgical suites in honor of Kenneth L. Mattox, M.D. in April 2022 following his retirement from more than 60 years of service and 31 years as chief of staff for Ben Taub Hospital.

The Ben Taub Hospital trauma program regularly scores in the very top echelon of institutions nationally in the American College of Surgeons Trauma Quality Improvement Program (TQIP).

Kenneth L Mattox, N Surgical Suite

VASCULAR SURGERY & ENDOVASCULAR THERAPY

Our Save the Extremity Program is a clinical and research collaboration dedicated to recognizing diabetic foot-related conditions and providing interventional treatments to prevent amputations and save limbs.

multidisciplinary vascular surgery Our program integrates clinical vascular surgeons, podiatrists, physical therapists and other vascular team specialists to provide advanced care for individuals with complex vascular diseases. Under the leadership of Joseph Mills, Sr., M.D., president-elect of the Society of Vascular Surgery, the division emphasis has evolved from performing primarily traditional open surgical procedures to offering a wide range of cutting-edge, minimally-invasive endovascular interventions.

The Save the Extremity Program (STEP) is a regional, national and international leader in multidisciplinary care for diabetic foot ulcers and chronic limb-threatening ischemia. STEP is currently expanding into a regional consortium for limb salvage that regularly presents at national and international meetings. The division is also at the forefront of distal vein arterialization, a limb salvage approach using the venous system when arterial strategies are impossible. The Interdisciplinary Consortium on Advanced Motion Performance (iCAMP), led by Bijan Najafi, Ph.D., MSc, has secured multiple NIH, Department of Defense and other extramural grants to apply biomedical engineering to enhance the mobility and safety of individuals with motion defects.

iCAMP Research Funding



The division offers ACGME-accredited 5-2 and 0-5 residency programs and recently graduated the first 0-5 trainee in the institution's history.



Endowed Chairs and Professors

PURSU

Baylor College of Medicine

Cullen Foundation Endowed Chair Joseph S. Coselli, M.D.

DeBakey Bard Chair in Surgery Todd K. Rosengart, M.D.

George L. Jordan, MD Chair of General Surgery William E. Fisher, M.D.

George P. Noon , M.D. Chair in Surgery Gabriel Loor, M.D.

Jimmy and Roberta Howell Professorship in Cardiovascular Surgery Scott A. LeMaire, M.D.

John W. "Jack" Reid, MD, '43 and Josephine L. Reid Endowed Professorship in Surgery Joseph L. Mills, Sr. M.D.

Josephine Abercrombie Endowed Professorship in Plastic Surgery Research Vacant

Lester and Sue Smith Endowed Chair in Surgery Kenneth K. Liao, M.D., Ph.D.

Meyer-DeBakey Chair in Investigative Surgery George P. Noon, M.D.

Olga Keith Wiess Chair of Surgery Alastair Thompson, BSc (Hons), MBChB, M.D.

Olga Keith Wiess Chair of Surgery **E. Ramsay Camp, M.D.**

Translational and Innovations Research Chair Livia S. Eberlin, Ph.D.

William J. Pokorny, M.D. Professorship in Pediatric Surgery Timothy C. Lee, M.D.

Texas Children's Hospital

Brad and Melissa Juneau Jeffrey A. Heinle, M.D.

Clayton Endowed Chair in Iki Adachi, M.D.

Clayton Endowed Chair in Adult Congenital Heart Surgery Edward Hickey, M.D.

Clayton Endowed Chair in Surgical Research Sundeep G. Keswani, M.D.

Donovan Chair in Congenital Heart Surgery Christopher A. Caldarone, M.D.

JLH Foundation Chair in Transplant Surgery John A. Goss, M.D.

Melvin Spira MD Endowed Chair in Plastic Surgery Edward P. Buchanan, M.D.

Samuel Stal, MD Endowed Chair in Plastic Surgery William C. Pederson, M.D.

S. Baron Hardy Endowed Chair in Plastic Surgery Larry H. Hollier, M.D.

Susan Vaughan Clayton Endowed Chair in Pediatric Surgery Vacant

St. Luke's Foundation

Denton A. Cooley, MD Chair in Cardiac Surgery Marc Moon, M.D.

Brad and Melissa Juneau Endowed Chair in Congenital Heart Surgery

Clayton Endowed Chair in Cardiac Transplant and Mechanical Support