Welcome to the...

**first university – based medical center**
**and the first academic Department of Surgery** in a unique partnership between **Banner Health** and the **University of Arizona College of Medicine – Phoenix**

which is the **first medical school to grant MD degrees** in the fifth largest city in the country Phoenix, AZ

Why Choose Us?

because All of us are committed to you every day no matter who you are that day
**PATIENT, PEER, STUDENT, COLLABORATOR, LEADER, NEIGHBOR** to make health care easier so life can be better

because we have one–of–a–kind experts who are experienced, respected, trusted

who innovate in Surgery to cure and give hope

earning national and international reputations

because they aim to achieve best outcomes

and teach future generations of surgeons who like us will lead their Communities and their field of surgery

because we trailblaze for Arizona by creating solutions and opportunities to make a difference and always
devote compassionate care to you

BECAUSE THE COMBINATION OF ALL OF THESE AMAZING THINGS is Rare to Find in Surgery all in One Place

This is only the beginning...

Look in to glimpse our future
How we are the difference – makers?

Recognized as a top health system in the country for the clinical quality consistently provided to patients in our hospitals, nonprofit Banner Health is headquartered in Phoenix, Arizona, with hospitals and other healthcare entities in in six states. With over one million covered lives currently served by the Banner Health provider networks, Banner has demonstrated the ability to effectively manage the health and wellness of populations of insured members in both government and private plans. Consider the facts:

- One of the country’s largest nonprofit hospital systems
- Largest private employer in Arizona
- Nearly 52,000 employees with 10,000+ physicians
- U.S. News Best Hospital 2019-2020 rankings
  Banner Health ranked #2 in Arizona
- Gives $733 million in community benefits
- Gives $84 million in charity care
- Gives $60 million in professional education
- Gives $20 million to University of Arizona for academic enhancement

The University of Arizona College of Medicine – Phoenix opened its four – year medical education program in 2007 after serving as a regional campus for the Tucson medical school since 1992. LCME accreditation as a separate school granting Medical Doctor (MD) degrees was gained in 2017, the first in Phoenix. Throughout the UA College of Medicine – Phoenix journey of creation, we have held and continue to have an expansive vision for the future. We value our past, are proud of our accomplishments to date and believe that collectively, our future is framed by how expansive our vision is and limited only by boundaries we place on these dreams. The College is committed to four pillars that empower its mission and vision for the future: Education, Research, Clinical Care and Community Service.

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Volume 1, 07/2019
Published by the Department of Surgery
The University of Arizona College of Medicine – Phoenix
Banner – University Medical Center Phoenix
As we enter our second decade as a true 21st century institution, we at the University of Arizona College of Medicine – Phoenix have charted an ambitious strategy.

**We aim to improve the health of communities through distinction in personalized medical education, translational research and patient care, within a culture of inclusive excellence.**

As we expand and train greater numbers of medical students to address the physician shortage, we will lead in innovation and personalized medical education.

To develop tangible solutions to improve health, we will develop outstanding programs in translational and clinical research.

We will identify new opportunities to better address our community’s health needs via targeted research, educational and clinical programs.

Through collaboration and education, we will work together to elevate the quality of clinical care for those we serve.

The Department of Surgery embodies all four foundational pillars of our College of Medicine.

Highlighted in this Annual Report are the activities of a diverse and pioneering surgery community composed of faculty, residents, medical students, clinical support teams and administrative leaders who inspire.

I congratulate them on living out the core values of our College: **Collaboration, Community, Diversity, Excellence, Innovation, Integrity and Servant Leadership.**

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**MESSAGE FROM**

The Dean
Guy Reed, MD, MS

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**MESSAGE FROM**

The Chair

Michael R. Foley, MD
Chair, Department of Obstetrics and Gynecology
Interim Chair, Department of Surgery
May 2018 - October 2019

Mira Milas, MD
Chief, Division of Endocrine Surgery
Interim Chair, Department of Surgery
October 2019 - present

Bold vision and fearless leadership gave birth to our motto:  
“To create the first academic Department of Surgery in the fifth largest city in the country.”

The surgeons featured in this inaugural Annual Report catalyzed the union of a department that combines the best of all worlds.

The 50-year heritage of **excellence** in surgery and surgical education by legendary Phoenix surgeons continues via one of the oldest general surgery residency programs in Arizona.

Attraction of new faculty with national and international **expertise** expanded our horizons.

Inspiration to reimagine and reinvent Phoenix takes place every day by celebrating and growing the city’s first ever allopathic medical school, the University of Arizona College of Medicine – Phoenix.

Banner Health’s **commitment** as Arizona’s largest healthcare provider and largest private employer is every day to make “health care easier so life can be better.”

This history and the future we look forward to are nothing short of magnificent.

This dynamic department will define surgery for a changing world.

As we look forward to 2020, please join us in celebrating the extraordinary and unique talents and contributions of our surgical faculty, residents, clinical support teams and collaborators. Welcome to the Department of Surgery.
Who We Are

“We choose to go to the moon in this decade, and do the other things, not because they are easy but because they are hard. Because that goal will serve to organize and measure the best of our energies and skills. Because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one we intend to win.” President John F. Kennedy, Rice University, September 1962.

We are surgeons, pioneers, teachers, learners, leaders, administrators, caregivers, innovators, dreamers and game-changers. We care. We aim high for the start of a new decade.

The Department of Surgery was formally founded in 2017 with the appointment of the first Chair of Surgery by the University of Arizona College of Medicine – Phoenix. Coinciding with the 10th anniversary of the founding of the UA College of Medicine Phoenix itself, 2017 was also the year it received formal national accreditation as a separate and distinct allopathic medical school in Arizona and the first ever for Phoenix.

Championed as a surgery residency program, our department’s heritage is over 50 years old. We gained fame in the 1990’s as the nation’s preeminent community residency program that trained the best “general surgeon.” Excellence as surgeons remains one of our core values. Our residents are respected and cherished, and their opinions are valued. They have a voice.

We are committed to collaboration, community, diversity, excellence, innovation, integrity, and servant leadership. Always to our patients.

Ideas and words can change the world. In 1962 they inspired a generation to achieve what seemed impossible. Until it was done in 1969 when Apollo 11 landed on the moon. We celebrate the 50th anniversary of that feat. And look forward to inspiring and shaping who we will be 50 years from now in the world of surgery.

Academic medical centers transform the communities in which they reside and create leadership in all spheres of civic life. Our great challenge in 2020 is to integrate a legendary community hospital with an emerging and transformative medical university. Some in our department have already and will continue to change the world by skillful surgery. Some have and will serve the rural and native American populations with a lifetime pledge. Others will guide the strategy of preparation and discipline to make a vision possible: academic surgery in Phoenix.

At the beginning of our identity as a unified Department of Surgery, we are proud to highlight here the best of our achievements, to emphasize the truths that drive our care of fellow human beings, and to herald amazing breakthroughs in sight.
The Department At-a-Glance 2019-2020

- Cardiac Transplant Surgery (1)
- Endocrine Surgery (2)
- General Surgery (3)
- Metabolic and Bariatric Surgery (3)
- Oral and Maxillofacial Surgery (5)
- Pediatric Surgery (4)
- Podiatry and Wound Care Surgery (2)
- Trauma, Critical Care/Acute Care Surgery (8)
- Banner MD Anderson Head and Neck Surgery (2)
- University of Arizona
- Banner University Medical Group
- Banner Medical Group
- Banner MD Anderson
- Veterans Affairs (VA)
- Alaska Native Medical Center
- Private Practice

We are a diverse community of surgeons. When tallied by specialty, the chart on the left is as colorful as the Arizona desert. When tallied by employer, the chart on the right highlights several fiduciary models. The bright blue bar indicates surgeons employed by University of Arizona or Banner Health, and the dark blue those in private practice. Without question, our Department of Surgery and its residency programs live in a unique academic medical center.

BANNER – UMC PHOENIX

Cardiothoracic Surgery
Orazio L. Amabile, MD
Francisco Arabia, MD
Modesto Colon, MD
H. Kenith Fang, MD
Mark R. Tasset, MD*
Colorectal Surgery
Stephen Brown, MD
Lynne Calcote, MD*
Eugene Kim, MD
Jason Weiss, MD*
Endocrine Surgery
Rose Metzger, MD, MPH
Mira Milas, MD (ASA)
General Surgery
Venkata (Bob) Emani, MD
Richard Harding, MD
Richard T. Perry, MD
Jennifer Preston, MD
Metabolic and Bariatric Surgery
Robin Blackstone, MD (ACS)
Christine Lovato, MD
Melissa Davis, DNP
Hepatobiliary/Transplant
James Cashman, MD*
Thomas Chaly, MD
Alfredo Fabrega, MD
Lawrence Koep, MD
Willem Van Der Werf, MD
Oral and Maxillofacial Surgery
Jack Buhrow, DDS, MS
Karel deLeeuw, MD, DDS, MBA
Benjamin Johnson DDS
Sudheer Surpure, MD, DDS
Savannah Weedman, MD, DDS
Otolaryngology/Head and Neck
Tom Shellenberger, MD, DDS
Chafeek Tomeh, MD
Urology
Shane M. Daley, MD
Adrian Feng, MD
Scott Kalinowski, MD
Bruce Kletscher, MD

VETERANS AFFAIRS

Howard Bourdages, MD
Sheldon Brown, MD
Ambuahshan Dildeep, MD
William Dolan, MD
Vivienne Halpern, MD
Wesley Lewis, MD
Madhavi Meka, MD
Bruce Potenza, MD
J. Dudley Pyeat, MD
Eric Romanucci, MD
Mark Runfolo, MD*
Ping Wang, MD

ALASKA

Charles Baldwin, MD
Rebecca Barnes, MD
Elisha Brownson, MD
Marc Connelly, MD*
Nathaniel Eastman, MD*
David Fredenberg, MD
Bijibaa Garrison, MD
Jon Gery, MD
Ted Rosenzweig, MD*
Mark Thorndike, MD*
Frank Sacco, MD*
Kevin Stange, MD*
Fram Wilson, MD

*FACULTY WHO ARE SURGERY RESIDENCY ALUMNI ARE NOTED WITH ASTERISK IN THIS REPORT

SURGEONS IN ITALICS ARE 10+ YEAR AWARDEES OF PHOENIX “TOP DOCS” OR OTHER SIGNIFICANT ARIZONA HONOR.
ALL SURGEONS ON THIS PAGE HAVE BEEN HONORED AT LEAST ONCE BY PATIENT AND PEER SELECTED POLLS, INCLUDING BY U.S. NEWS AND WORLD REPORT.

AMERICAN COLLEGE OF SURGEONS GOVERNOR (Dr. Blackstone)

AMERICAN SURGICAL ASSOCIATION MEMBER (Dr. Milas)
...from a Phoenix eye view

2,212
FACULTY
UA COLLEGE OF MEDICINE – PHOENIX

261
SURGICAL FACULTY

97
DEPARTMENT OF SURGERY
AND RESIDENCY PROGRAM TEACHING FACULTY

80
MEDICAL STUDENTS CHOSEN FROM
5,700 APPLICANTS, REPRESENTING 32 UNDERGRADUATE
SCHOOLS IN 13 STATES. THIS REPRESENT THE 13TH CLASS
TO BEGIN THEIR JOURNEY AT
UA COLLEGE OF MEDICINE – PHOENIX.

50
SURGERY RESIDENTS

1,350
AVG CASE NUMBER/GRADUATING CHIEF

20,000
ANNUAL PROCEDURE VOLUME
BANNER – UNIVERSITY MEDICAL CENTER PHOENIX

$3.1 BILLION
ECONOMIC IMPACT BY 2025 OF UA COLLEGE OF
MEDICINE – PHOENIX BIOMEDICAL CAMPUS
Clinical and Training Sites

UNIVERSITY OF ARIZONA COLLEGE OF MEDICINE — PHOENIX
475 N 5th St, Phoenix, AZ 85004   602-827-2002
The UA College of Medicine – Phoenix provides state of the art programs of medical education, groundbreaking research opportunities, and leading-edge patient care. In 1967, the College was founded as the state’s only MD degree granting program. The Phoenix branch became the city’s 1st medical school in 2006 and achieved independent accreditation as UA College of Medicine – Phoenix in 2017. UA ranks among the top medical schools in the nation for research and primary care. http://phoenixmed.arizona.edu

BANNER — UNIVERSITY MEDICAL CENTER PHOENIX
1111 E McDowell Rd, Phoenix, AZ 85006   602-839-2000
The state’s largest hospital, part of the Banner Health system, is an important clinical education site. Banner – University Medical Center Phoenix (formerly Banner Good Samaritan) has served the area for more than 100 years and is known as a top teaching hospital. Banner – UMC Phoenix has several nationally renowned programs such as high-risk obstetrics, neurology and transplant. https://www.bannerhealth.com

PHOENIX VETERANS AFFAIRS HEALTH CARE CENTER
650 E Indian School Rd, Phoenix, AZ 85012   602-277-2002
The Phoenix VA Health Care System (VAHCS) has cared for America’s Veterans in Phoenix for more than half a century. The medical center first opened its doors in 1951. The VA Medical Center provides acute and chronic surgical care to the more than 322,000 veterans who reside in the facility’s primary service area. The program is the only surgical residency involved in the Phoenix VA. https://www.phoenix.va.gov

BANNER DESERT MEDICAL CENTER
1400 S Dobson Rd, Mesa, AZ 85202   480-412-3000
Banner Desert serves as a tertiary referral center for the East Valley of metropolitan Phoenix and treats the highest levels of acuity in the East Valley. Surgery residents experience a wide breadth of exposure at Banner Desert through working with the general surgery and trauma critical care groups on site. https://www.bannerhealth.com

ALASKA NATIVE MEDICAL CENTER
431 S Diplomacy Dr., Anchorage, AK 99508   855-482-4382
The Alaska Native Medical Center (ANMC) offers comprehensive medical care in all specialties to Alaska Native and American Indian people living in Alaska. It houses Alaska’s first Level II Trauma Center and Level II Pediatric Trauma Center. The hospital works in partnership with rural health facilities statewide. https://anmc.org

Clinical and Training Sites

CARDON CHILDREN’S MEDICAL CENTER
1400 S Dobson Rd, Mesa, AZ 85202   480-412-5437
Cardon Children’s Medical Center was designed “Through the Eyes of a Child,” meaning it has all the comforts of home and does not feel institutional. The hospital is meant to inspire healing, learning and imagination. The state of the art facility provides surgical residents invaluable experiences focused on pediatric surgical care. https://www.bannerhealth.com

BANNER ESTRELLA MEDICAL CENTER
9201 W Thomas Rd, Phoenix, AZ 85037   623-327-4000
Banner Estrella Medical Center was built in 2005 in West Phoenix to meet the health care needs of a growing West Valley community. Estrella includes an ultramodern facility that offers surgical residents a closer look at the type of practice one might expect to establish when choosing a private practice opportunity in a community hospital. https://www.bannerhealth.com

BANNER THUNDERBIRD MEDICAL CENTER
9201 W Thomas Rd, Phoenix, AZ 85037   602-865-5555
Banner Thunderbird Medical Center has served the Northwest Valley for more than 25 years. It is now a Level I Adult Trauma Center for patients 15 and older. Banner Thunderbird is a training site for the Oral and Maxillofacial Surgery residents and has become one of the most preferred hospitals in the Valley. https://www.bannerhealth.com

BANNER MD ANDERSON CANCER CENTER
925 E McDowell Rd, Phoenix, AZ 85006   480-256-6444
Banner MD Anderson patients experience customized, comprehensive and compassionate cancer care. Patients have a team of experts who understand the nuances of each type of cancer to develop an individualized treatment plan. Resident exposure to this center comes via elective rotations. https://www.bannerhealth.com
Clinical and Training Sites: Rural Outreach

Department of Surgery faculty members have a decades-long tradition of serving rural communities and members of the 22 Native American tribal communities who call Arizona home. Programs that are led by Corey Detlefs, MD have resulted in 100+ engagements, conferences and direct medical care provided to these communities. An airplane pilot, Dr. Detlefs has often flown to many remote areas himself for community medical service. Likewise, Robin Blackstone, MD has spearheaded programs for medical and surgical care related to weight management, diabetes and overall health for members of the Apache Indian Nation residing in San Carlos. The flags on the map mark just a selection among many areas that have benefitted from these acts of service and contributions of medical care. Communities of Arizona that have been part of these devoted outreach efforts include Chinle, Whiteriver, Tuba City, Winslow Indian Health Center, Little Colorado Medical Center and Keyenta Health Center among countless others.

Clinical and Training Sites: Global Health

- INDIA: TRAUMA/“STOP THE BLEED” CAMPAIGN/ALLISON TOMPECK, MD
- KENYA: UA COLLEGE OF MEDICINE – PHOENIX GLOBAL OUTREACH / NIRAV PATEL, MD
- AFRICA: GOITER SURGERY/KENYA RELIEF/RICHARD HARDING, MD
- HONDURAS: ADVANCED SURGICAL ASSOCIATES/ KEVIN MASUR, MD
  GREG RULA, MD/DAVESHI KUMAR, MD/ALEX NELSON, MD /
  SARAH ARNCE, PA
- ALASKA: ALASKA NATIVE AND AMERICAN INDIAN COMMUNITIES/
  CORE CURRICULUM TRAINING SITE FOR RESIDENCY
The Phoenix Integrated Surgical Residency has a 70-year history of training excellent general surgeons, many of whom stay right here in the Phoenix community. In addition to our main training site at Banner – University Medical Center Phoenix, we are fortunate to have multiple community partners who help with this mission. These include the Phoenix VA Health Care System, Banner Desert Medical Center, Banner Thunderbird Medical Center, Banner Estrella Medical Center and the Alaska Native Medical Center. As we embrace a time of transformation into a university-based academic medical center, we continue to hold tightly to our mission to train competent, confident general surgeons and we are inspired to find ways to improve, grow and innovate in surgical education.

The year 2019 has seen ongoing growth and refinement of our core didactic curriculum, improvement in our evaluation/feedback process, creation of a surgical education research group, launch of a nationally-linked program for Faculty-as-Educators and formalization of annual achievement categories for faculty recognition.

As a program, we encourage scholarly creativity in broad definitions. Our residents have pioneered projects with UA Tech Transfer. We champion a novel team-based Quality Improvement (QI) initiative that culminates in podium and poster presentations at the annual Harlan Stone Scholarship Day. We sponsor senior residents each year to attend the American College of Surgeons (ACS) Residents-as-Leaders conference and chief residents to attend the ACS Clinical Congress.

In 2020 we look forward to continued growth as this coming academic year implements an innovative, longitudinal simulation curriculum and sustains the commitment to our resident wellness program. We are proud of our residents and residency program. Our pledge is to strive for excellence in surgical education.
In 2017 we implemented a longitudinal, multidisciplinary robotic surgery curriculum for our residents. The curriculum involves a stepwise progression through online training, simulation, hands-on courses and bedside assisting, with the ultimate result of safe robotic surgery by residents as the primary console surgeon. The graduating chief resident class of 2019 was our second class to graduate fully certified in robotic surgery.

Our robotic surgery program for residents is the only one of its kind in Arizona. In 2019, robotic surgery at Banner – University Medical Center Phoenix witnessed substantial growth with investment in more robot console systems and the latest Xi technology. This improved access for all surgeons who currently perform robot-assisted procedures (general, colorectal, urology, gynecology) and expanded new service lines (bariatric and thoracic surgery).

In 2019, robotic surgery at Banner University Medical Center Phoenix witnessed substantial growth with investment in more robot console systems and the latest Xi technology. This improved access for all surgeons who currently perform robot-assisted procedures (general, colorectal, urology, gynecology) and expanded new service lines (bariatric and thoracic surgery).

**Innovative Curriculum: Resident Quality Initiative Scholarly Projects**

**RECENT TOPICS: RESIDENT WELLNESS | SURGEON AWARENESS OF SURGICAL DEVICE PRICING | TELEHEALTH | MINIMIZING UNPLANNED ICU EXTUBATIONS | UROLOGY DIFFICULT CATHETERIZATION | OPTIMIZING THORACOSTOMY TUBE MANAGEMENT**

**Message from the Associate Program Director for Simulation**

Amy Sisley, MD

Recognizing the importance of simulation in surgical education, we have developed an innovative, longitudinal simulation curriculum to begin in the 2019 - 2020 academic year. This curriculum incorporates national curricula including the ACS/APDS skills curriculum, Fundamentals of Laparoscopic Surgery and the Fundamentals of Endoscopy Curriculum. In addition, we have included the Simsei laparoscopy program that is a novel, deliberate practice model for basic laparoscopy skills. We are excited for the value this will add to resident surgical education. It will also enhance our existing didactic program of Residents-as-Educators, with chief residents teaching skills to interns.
Residency Programs: General Surgery

Innovative Curriculum: Advanced Fellowships
The general surgery residency program encourages residents to consider academic careers, among other great career options, and supports those who identify and pursue advanced fellowship training prior to graduation. While dedicated research time is not required for residents, we are proud to highlight several successful opportunities and recent achievements.

University of Arizona College of Medicine – Phoenix Master of Science in Clinical Translational Sciences
http://phoenixmed.arizona.edu/cts/ms
Neuroscience-focused research related to traumatic brain injury was the focus of Dr. Sarah Ogle’s research (Class of 2019).

Aerospace Medicine Residency NASA/University of Texas Medical Branch Galveston, TX
Eric Petersen, MD (2022) was the first surgery resident ever in the history of this prestigious NASA program to be accepted and complete an aerospace medicine residency. UA and NASA have partnered in exploration since the Apollo 11 mission to current Bennu asteroid destined OSIRIS-REx.

“With a background in aerospace engineering, this discipline was a perfect way to merge my previous interests with my career in medicine. Aerospace Medicine studies how to take care of humans in abnormal environments, from divers to astronauts. It is a subdivision of preventive medicine, and there is currently one NASA-supported residency that focuses on space medicine at the University of Texas Medical Branch in Galveston. The first year entailed earning a master’s degree in aerospace medicine, an MPH equivalent. Rotations throughout the second year included medical care of astronauts at NASA’s Johnson Space Center, working with SpaceX as a crew medical fellow and training with the US Air Force to take care of high-performance pilots. After graduating in June 2019, I am now Aerospace Medicine board eligible and will take the board certification exam this fall. I hope to combine my backgrounds in engineering and aerospace medicine with my love of surgery to help solve surgical and critical care issues that could arise during spaceflight or on other planets.”
Eric Petersen MD, MS (Hometown: Centennial, CO)

Medical Student Education
2019-2020: The Surgical Clerkship Innovative Curriculum

Message from the Surgery Clerkship Director
University of Arizona College of Medicine – Phoenix
Natasha Keric, MD
Assistant Professor

This year the Surgery Clerkship at UA College of Medicine – Phoenix has become one of the four pilot programs (joining the ranks of Duke University, Medical College of Wisconsin and University of California San Francisco) to launch a national medical student curriculum. This curriculum was designed by the members of the Association of Surgical Education (ASE) Curriculum Committee and the American College of Surgeons (ACS) Division of Education to address the growing need of standardizing the third-year medical education. It will ensure that all medical students will learn the basic principles in the care of a surgical patient, regardless of the ultimate specialty choice. In addition, the National Board of Medical Examiners (NBME) will be working with the ASE and ACS to use this curriculum as a foundation for the surgery shelf exam. The curriculum spans didactics and simulation and has been successfully implemented and launched in our Surgery Clerkship as of April 2019.
https://www.facs.org/education/program/core-curriculum

In trailblazing fashion, eight women from the Class of 2020 have entered the general surgery residency match. It is the largest group of students to select this specialty since the birth of UA College of Medicine – Phoenix, and the first to feature all women. We wish them tremendous success in their future surgical careers.

The inaugural meeting of the Women in Surgery Interest Group, led by UA College of Medicine – Phoenix medical students

Jason Taylor
Clerkship Coordinator
Who We Are: The General Surgery Residents

PGY1
CATEGORICAL
Ryan Bachofer, MD
University of Washington
Valeria Leon-Risemberg, MD
University of Arizona – Tucson
Amanda Mesa, MD
University of Hawaii
Taylor Norton, MD
University of Tennessee
Kelsey Rupp, MD
Virginia Commonwealth University
Alex Vaciuc, MD
Indiana University School of Medicine
Alexandra Weston, MD
State University of NY Upstate
Michael Zhou, MD
University of Texas Southwestern

PGY2
Harriet Barratt, MD
Texas Tech School of Medicine
Ovninder “Kevin” Johal, MD
University of Arizona – Phoenix
Maryam Khan, MD
University of Texas Southwestern
Kashif Malik, MD
University of Arizona – Tucson
Falak Patel, MD
University of Nevada – Reno
Lora Shirey, MD
Drexel University College of Medicine
Alicia Taase, MD
University of Arizona – Phoenix

PGY3
Panagiotis “Takis” Bletsis, MD
Indiana University School of Medicine
Colin Bohannan, MD
Oregon Health Sciences University
Seda Bourikian, MD
Virginia Commonwealth University
Daiji Kan, MD
University of Pittsburgh
Eric Petersen, MD
University of Colorado
Yafei Ouyang, MD
Baylor College of Medicine
Brittany Wheelock, MD
University of Washington

RESEARCH
Caitlin Thornley, MD
Georgetown University

PGY4
Angela Arreola, MD
Case Western Reserve University
Jena Bunda, DO
Midwestern University
Morgan Crigger, MD
University of Louisville
Kelsey Hoidal, MD
University of Arizona – Phoenix
Robert Maher, MD
Wayne State University
Anchit Mehrotra, MD
University of Arizona – Phoenix
Ralitza Parina, MD
University of California San Diego

PGY5
Eduardo Alcantar, MD
University of Arizona – Phoenix
Stacey Klyn, DO
AT Still University of Health Sciences
Annalise Koenig, PharmD, MD
University of Arizona – Phoenix
Jerome Manson, MD
University of Kentucky
Alexa Mers, MD
University of California – Los Angeles
Jessica Sloan, MD
University of Texas San Antonio
Emily Watters, MD
University of Texas San Antonio

2019 GRADUATES
Milad Behbahaninia, MD
Trauma/Critical Care Fellowship
Vanderbilt University
Nashville, TN
Mark Cowan, MD
General Surgery Practice
Wyoming
Erin Kloos, MD
General Surgery Practice
Phoenix, AZ
Britton Mehr, MD
Endocrine Surgery Fellowship
Baylor Scott & White
Temple, TX
Alex Nelson, DO
Endocrine Surgery Fellowship
University of Michigan
Ann Arbor, MI
Sarah Ogle, DO
Pediatric Bariatric MIS Fellowship
Denver, CO
"Alone we can do so little. Together we can do so much" – Helen Keller

Safe and successful surgery and perioperative care rely on talented teams who place patients first at all times. These teams span many key areas: Administration and Leadership of Departments, Banner Institutes and Private Practices, Ambulatory Clinics, Preoperative and Surgical Suites, and Postoperative Recovery Units. These teams exist at all hospitals and organizational units that interface with the Department of Surgery. Highlighted here for 2019-2020 are teams at Banner – University Medical Center Phoenix, the primary clinical partner for University of Arizona College of Medicine – Phoenix. They symbolize all who "Make It Happen" at Banner – UMC Phoenix and beyond. We are grateful for your tireless and committed work as the best and brightest of our healthcare system.

John Spearman, Jr., MBA
Department Administrator
Department of Surgery

Jeffery Fowler, RRT, MBA
Practice Administrator

Matt Kraemer, PT, DPT
Institute Director

Jacob Hyatt, PT, DPT
Institute Director

Jody Runge, MS, RN
Institute Director

Carl Olvera, MSN, BSN, RN
Director of Surgery

Staff of the Operating Rooms (top) and “1441” Ambulatory Clinics (above)
Surgical Specialties

Cardiothoracic Surgery
Colorectal Surgery
Endocrine Surgery
General Surgery and Laparoscopic/Robotic Surgery
Hepatobiliary/Transplant Surgery
Metabolic and Bariatric Surgery
Oral and Maxillofacial Surgery
Otolaryngology/Head and Neck Surgery
Pediatric Surgery
Plastic/Reconstructive Surgery
Trauma, Critical Care and Acute Care Surgery
Urology
Vascular Surgery

Phoenix Cardiac Surgery believes excellence in patient care resides at the intersection of Experience, Innovation and Compassion. Our team prides ourselves on providing heart patients access to the latest advances in medicine, combined with the knowledge needed to make informed, confident decisions. We offer all aspects of cardiothoracic surgery, from "traditional" bypass heart surgery, to minimally invasive heart, lung, and electrophysiologic surgery. It is a privilege to be part of the University of Arizona College of Medicine – Phoenix general surgery residency teaching faculty where residents rotate with us at Banner – University Medical Center Phoenix and Banner Estrella. Our group is led by experienced, board-certified surgeons, each of whom is dedicated to the goal of returning patients to an active lifestyle as quickly and safely as possible. We are honored that our surgeons have been voted as PHOENIX magazine "Top Doctors" for multiple years.

Dr. Tasset performs all aspects of adult heart and lung surgery with a special interest in minimally invasive thoracic surgery, ECMO for acute lung failure, mechanical assist devices for heart failure, and TAVR.

Dr. Amabile has a special interest in the treatment of complex aortic disease and the use of mechanical assist devices for heart failure. His expertise includes TAVR, mechanical circulatory assist of failing hearts and complex aortic surgery.

Visit Bibliography of Faculty Publications on page 48
Dr. Brown has served the Phoenix metropolitan community for decades with his colorectal surgery expertise. He was a member of the Health Care Advisory Council to the Honorable Matt Salmon and is a volunteer physician at the Neighborhood Christian Clinic. Dr. Brown has a legacy of teaching residents and medical students.

Dr. Calcote has devoted significant additional time beyond his elective surgical practice to colorectal surgical care of patients in rural underserved areas. He also completed reserve officer training and volunteered with Hinds County S.W.A.T. in 2013-14.

Dr. Weiss specializes in laparoendoscopic (minimally invasive) treatment of colon and rectal disorders. He has special interest in and passion for utilizing technology effectively to minimize perioperative pain in surgical patients.

Dr. Kim’s dedication to surgical education was recognized in 2011, when he received the Attending of the Year award from the Phoenix Integrated Surgery Residency program. He also has special expertise in robotic-assisted colorectal surgery and teaches residents.

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Surgical Specialties: Colorectal Surgery

Stephen Brown, MD
Assistant Professor
Past Chief of Staff
Banner – UMC Phoenix

Lynn Calcote, MD*
Assistant Professor

Jason Weiss, MD*
Faculty Physician

Surgical Specialties: Endocrine Surgery

The Division of Endocrine Surgery is a center of excellence providing state-of-the-art patient care that is compassionate and comprehensively treats all thyroid, parathyroid and adrenal disorders. We are fellowship-trained, experienced, high-volume endocrine surgeons who together have performed thousands of endocrine operations in our careers. We are grateful for the trust placed in our care by patients who come from a national and international referral geography (see map). Banner – University Medical Center Phoenix performs the highest number of index endocrine surgery procedures (>500/yr) of all 28 hospitals in the Banner system. We are committed to a patient-centered, multidisciplinary approach that coordinates expert care for the most complex endocrine surgery conditions. Surgeon-performed ultrasound, personalized surgical treatment plans using genomic medicine, and expertise in hereditary cancer and endocrine syndromes are some of the elements behind our national reputation for outstanding patient care and satisfaction. With robust track records in research, innovation and education, Endocrine Surgery at University of Arizona College of Medicine – Phoenix is committed to serving Phoenix, Arizona and the Southwest as a major referral center and trailblazing academic hub.

Several “firsts” distinguish Endocrine Surgery:

➢ First academic division chief in Department of Surgery formally appointed by UA College of Medicine – Phoenix
➢ First Nurse Navigator clinical role for patient care coordination in Banner – UMC Phoenix ambulatory clinics
➢ First IRB clinical registry for Surgery and Endocrinology (BEACON© powered by ORION©)
➢ First multidisciplinary institute with all specialists co-localized for one-stop care (Diabetes & Endocrine Institute)
➢ First Endocrine Electronic Dashboard with Banner-wide metrics (Tableau©)
➢ First match into Endocrine Surgery Fellowship 2019 by Britton Mehr, MD and Alex Nelson, DO who are first in our residency program’s history to choose this specialty and be candidate members of American Association of Endocrine Surgeons (AAES)

Mira Milas, MD, FACS
Professor of Surgery
Chief, Division of Endocrine Surgery

Rose Metzger, MD, MPH, FACS
Associate Professor
Director, Endocrine Surgery Education

Patient Care Team
Beatriz Rojas, MBA
Tammy Brindle, MA
Rich Greetley, RN
Ana Diaz Catalan, MA
Aulana McMullen, BS

Surgery residents in the OR and at the AAES
Mira Milas, MD, Britton Mehr, MD PGY5, Mamoona Khochar, MD (Assistant Professor 2017-2019), Ralitza Parina, MD PGY4, Milad Behbahani, MD PGY5, Alex Nelson, DO, PGY5
Jenna Bunda, DO PGY3 operating

AAES 2019

Surgical Specialties: Colorectal Surgery

Eugene Kim, MD
Assistant Professor
Section Chief, Colorectal Surgery at Banner – UMC Phoenix

Mira Milas, MD, FACS
Professor of Surgery
Chief, Division of Endocrine Surgery

Rose Metzger, MD, MPH, FACS
Associate Professor
Director, Endocrine Surgery Education

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AAES 2019
The Division of General Surgery at Banner – UMC Phoenix and University of Arizona College of Medicine – Phoenix has been described as legendary, comprised of master surgeons who have trained most of the general surgeons in Arizona over the last 40 years. Three primary surgeons now employed by the Banner – University Medical Group together form the heartbeat of the general surgery program, with further department, residency program and Banner Health executive leadership roles. Together they have performed over 30,000 operations in their careers and remain among the busiest surgeons on the Banner – UMC Phoenix campus.

The faculty have led several significant initiatives over the years. Dr. Evani and Dr. Perry have moderated the longest-running multidisciplinary conference for the care of patients with breast disease in Phoenix. Dr. Evani serves as Team Physician for the Phoenix Diamondbacks with focus on hernia care. Dr. Preston has strengthened the partnership with the Banner – UMC Phoenix Swallowing and Reflux Center by providing collaborative care for patients with complex esophageal pathology. The ongoing success of a multidisciplinary Foregut Case Conference and development of care pathways to streamline care have led to substantial growth in foregut surgical volume. Dr. Perry’s clinical career achievements include several historical “firsts” for Arizona related to laparoscopic cholecystectomy and adrenalectomy, liver transplant, and over 1,000 living-related laparoscopic donor nephrectomies. Collaboration with community surgeons, including Dr. Jon King and Dr. Richard Harding, occurs both within the framework of these clinical interactions and their participation as surgery residency faculty.

The Division of General Surgery is a cornerstone clinical team that is a key component of the Department of Surgery. It has provided trusted care and leadership for decades and looks forward to ongoing growth. The motto displayed in clinic says it best.

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The Division of General Surgery is a cornerstone clinical team that is a key component of the Department of Surgery. It has provided trusted care and leadership for decades and looks forward to ongoing growth. The motto displayed in clinic says it best.
Alaska Native Medical Center, Anchorage, AK

Alaska Native Medical Center’s affiliation with the general surgery residency dates to the early 1990’s. It represents one of the most successful and beloved teaching relationships between former alumni and current residents of our program. Mark Thorndike, MD and Ted Rosenzweig, MD narrate here this unique history for the first time.

Prior to being a resident at Phoenix Integrated Residency program (PISR), Kevin Stange, MD was a General Medical Officer (GMO) at the Alaska Native Medical Center (ANMC) – this was the original connection. Dr. Stange fulfilled his United States Public Health Services Corps obligation via this GMO appointment at ANMC. The Indian Health Service then subsidized his surgery training and salary as a PISR resident. On his return to ANMC, Dr. Stange thought that it would be a wonderful experience for PISR residents to have surgery rotations in Alaska. At that time in the 1990’s, PISR had a very strong relationship with the Phoenix Indian Medical Center, thus the United Public Health Service connection facilitated this new site. The relationship is basically borne of an affiliation with Indian Health Service.

Frank Sacco, MD next came to Alaska, having similarly devoted a 1-year GMO obligation to its rural and remote communities. Dr. Sacco was the first alumnus and attending surgeon from PISR to be employed by ANMC. During his PISR residency, Dr. Sacco rotated on the PGY4 service at ANMC formed by Dr. Stange as a 3-month elective where the PGY4 resident shared call with the GMO. Dr. Rosenzweig was the first resident in the mid 1990’s to rotate both as PGY2 and PGY4, since the clinical needs had grown to warrant two residents.

Eventually ANMC recognized that the PISR residency was the main pipeline for recruiting and employing talented surgeons. The generations of friendships are priceless and unique. Frank Sacco was Dr. Thorndike’s chief resident. Mark was Ted Rosenzweig’s chief resident. Ted was chief resident to Mark Connolly, MD during his PGY2 year. Nathaniel Eastman, MD served as PGY1 then PGY2, interrupting residency to fulfill in Iowa a military obligation. Dr. Eastman returned to Alaska as a private practice bariatric surgeon and eventually re-joined ANMC. Thirteen surgeons are now on staff and dedicated to the education of our surgery residents, with Dr. Thorndike as Site Director.

Historically the ANMC rotation grew to need a team of PGY4, PGY2 and PGY1 residents. The current resident team composition is PGY4, PGY3 and PGY2. Unanimously viewed by residents as an “awesome rotation,” ANMC demonstrates how a group of extraordinary and dedicated surgeons and alumni can create a 30-year legacy of excellence in surgical training.

Charles Baldwin, MD
Rebecca Barnes, MD
Elisha Brownson, MD
Marc Connolly, MD*
Nathaniel Eastman, MD*
David Fredenberg, MD
Bijibaa Garrison, MD
Jon Gerry, MD
Ted Rosenzweig, MD*
Mark Thorndike, MD*
Frank Sacco, MD*
Kevin Stange, MD*
Fran Wilson, MD

HIGHLIGHTS
✓ Dedicated to serve Native American populations
✓ Dedicated endoscopy curriculum
✓ Alumni are Faculty
✓ Beloved by Residents
✓ Large & varied case volume
✓ Residents maximize surgical skills & talent
✓ ALASKA!

Welcome to the
Phoenix VA Health Care System

The Phoenix VA Health Care System proudly honors and serves Veterans in central Arizona at the Carl T. Hayden VA Medical Center and nine community-based outpatient VA clinics. The Department of Surgery at the VA has been an integral and tremendously respected component of the general surgery residency program for decades.

Beginning in 2016 and continuing through most of the 2018-2019 academic year, Bruce Potenza, MD served as the Chief of Surgery until his departure for a tour of military service in Afghanistan. Howard Bourdages, MD currently serves as the Assistant Chief of Surgery and the director of VASQIP surgical quality programs, which originated at the VA more than a decade ago. The surgery residency program dedicates several residents (three PGY1, one PGY2, and two PGY5 chief residents) each month to gain experience in varied fields at the VA.

The core values witnessed in action at the VA include integrity, excellence in providing the highest quality of surgical care with continuous innovation and improvement of healthcare delivery, and profound commitment to education. The VA is the nation’s largest single provider of medical education for students and residents and is a unique complement to university and private practice models of funding and healthcare delivery.

Faculty at the VA have distinguished national and international scopes of accomplishments. They have garnered multiple teaching awards bestowed by faculty peers, residents and medical students including Teacher of the Year Award from the graduating chief resident class (Dr. Bourdages, Mark Runfola MD*), Clinical Excellence Award (Ping Wang, MD), and keynote speaker for the White Coat Ceremony inaugurating a new class at our medical school (William Dolan, MD).

Dr. Potenza, Dr. & Mrs. Bourdages at graduation, Dr. Wang receiving award from Dr. Preston, Dr. Dolan in military uniform and with surgery resident Dr. Thornley at Grand Rounds.
University Medical Center Phoenix, celebrated its 50th Anniversary. At the same time, the Transplant Center at Banner – University Medical Center Phoenix led by Dr. Koep was recognized as the oldest liver transplant program in the United States and a top center in the country.

In 1981, Dr. Koep performed the first liver transplant in Arizona, bringing to our state the expertise of his collaboration with Thomas Starzl, MD, PhD. That same year, Richard Perry, MD likewise established his general surgery practice and assisted in this first liver transplant surgery. In 2011, Good Samaritan Hospital, now Banner – University Medical Center Phoenix, celebrated its 100th Anniversary. At the same time, the Transplant Center at Banner – UMC Phoenix led by Dr. Koep was recognized as the oldest liver transplant program in the United States and a top performing program by the U.S. Department of Health and Human Services.

Our physicians are certified by the American Board of Surgery and are members of several distinguished medical societies. Current actively practicing surgeons include Jeffrey Brink, MD, James Cashman, MD, Thomas Chaly, MD, Alfredo Fabrega, MD, and Willem Van der Werf, MD. In 2017 the founding surgeon and decades-long leader of the practice, Lawrence J. Koep, MD, retired from surgery and was honored by the Department of Surgery and the Residency Program as the Stone Professor.

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The Arizona Transplant Associates are specialists in hepatobiliary and pancreas surgery, including liver, kidney, pancreas and kidney-pancreas transplantation, and vascular surgery related to these fields. The practice was established in 1981 as one of the few hepatobiliary and pancreas surgery specialty practices in Maricopa County. Since then, it has developed into the premier hepatobiliary and transplant surgery program in the Southwest. With a reputation of unparalleled clinical excellence, the program is among the busiest abdominal organ transplant centers in the country.

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The Institute for Obesity and Metabolic Disorders provides a medical home for patients with obesity through alignment and collaboration between medical and surgical colleagues. Bariatric, endoscopic, and general surgical care in a multidisciplinary setting is the hallmark of this clinical care delivery model for the patient with obesity.

Designated as a nationally accredited comprehensive center with both adult and adolescent qualifications by the American College of Surgeons in December 2016, the faculty and staff are committed to providing the highest quality standards of care.

Robin Blackstone, MD, FACS, FASMBS established the program at Banner – University Medical Center Phoenix in October 2015 and provides international and national leadership in research, education, and clinical care to the public, medical students, fellows and colleagues. Dr. Blackstone, appointed the Ira Fulton Endowed Chair in Bariatric Surgery and Metabolic Disorders in October 2018, serves as a MBSAQIP Clinical site reviewer and represents on the National Academy of Sciences, Engineering, and Medicine Roundtable on Obesity Solutions addressing global health initiatives and public policy issues.

Christine Lovato, MD, FACS, FASMBS joined the practice in February 2018. Dr. Lovato serves as the Site Director for the bariatric subspecialty rotation and Assistant Clerkship Director for the University of Arizona College of Medicine – Phoenix where she leads the yearly OSCE for third year medical students rotating on surgery.

Melissa Davis, DNP is a board-certified adult nurse practitioner, clinical nurse specialist, assistant in surgery, AANP Fellow and Assistant Clinical Professor in the Department of Surgery at the University of Arizona College of Medicine – Phoenix. She is nationally certified in perioperative and bariatric nursing. Dr. Davis has been caring for bariatric medical and surgical patients since 2001.

Dr. Davis has been a co-investigator for several FDA trials, presented at both local and national conferences and has had numerous publications, most recently as lead author of the chapter “Pregnancy in the Woman with a History of Bariatric Surgery” in Bariatric Surgery Complications (2017).

The program has received the following designations:

- Metabolic and Bariatric Surgery Accreditation & Quality Improvement Program
- Blue Distinction Center for Bariatric Surgery
- Aetna Institutes of Quality Bariatric Designation
- CIGNA Bariatric Center of Excellence

The OMFS Division is to become the preeminent destination for oral and maxillofacial clinical care and resident education in Phoenix and the Southwest. In its ninth year, the division accomplishments include:

- OMFS residency program matched both of its top candidates from a pool of over 186 applicants for residency positions nationwide
- Six former residents passed the oral board and one passed the written board examination for the American Board of Oral and Maxillofacial Surgery
- The division’s operative volume continues to grow as the faculty now provide facial trauma coverage at Banner Thunderbird Medical Center
- With three full-time faculty members, the OMFS division is also in the beginning stages of building a research program. Savannah Weedman, MD, DDS, FACS was the recipient of a research seed grant for the application of 3D printing technology to facial reconstruction surgical planning.

We are extremely fortunate to have multiple community partners such as Banner Thunderbird Medical Center, the Phoenix VA Health Care System, Midwestern University College of Dental Medicine - Arizona, and St. Vincent De Paul dental clinic.

In 2020, we look forward to welcoming Karel deLeeuw, MD, DDS, MBA, FACS as OMFS Division Chief and OMFS Center Medical Director to join Benjamin Johnson, DDS as our new OMFS Residency Program Director. Our operative caseload and referral networks continue to grow. We are now regularly receiving consultations for patient care and treatment from all four corners of Arizona. Our OMFS division is now the main facial trauma care provider for patients at both Banner – University Medical Center Phoenix and Banner Thunderbird Medical Centers. In 2019-2020 we will be adding faculty members with various skills to broaden the scope of our residency training program. Recruitments are actively under way and we hope to share more exciting news with you in the very near future.
Surgical Specialties: Otolaryngology/Head and Neck Surgery

Head and Neck Surgical Oncology

The Head and Neck Surgical Oncology program of Banner MD Anderson Cancer Center, caring for patients with head and neck cancers as part of the multidisciplinary team at Banner Gateway Medical Center since 2012, has enjoyed ongoing collaboration with Endocrine Surgery since 2015 to serve patients with the most complex of thyroid cancers.

Thomas Shellenberger, DMD, MD
Chafeek Tomeh, MD

In this context, Thomas Shellenberger, DMD, MD and Chafeek Tomeh, MD regularly engage with and contribute to the teaching activities of the general surgery residency program of the Department of Surgery. Additionally, Head and Neck Surgical Oncology services for patients with non-endocrine head and neck cancers commenced in 2019 at the newly established Banner MD Anderson Cancer Center on the campus of Banner University Medical Center – Phoenix. Head and Neck Surgical Oncology will be adding new initiatives in robotic surgery, complex microvascular reconstructive surgery, state-of-the-art systems for radiation therapy, and surgery for complications of treatment to the ongoing broad scope of therapy for all cancer types of the head and neck. The Tree of Hope with colorful ribbons greets all at the entry.

Otolaryngology at Banner – University Medical Center Phoenix

Numerous distinguished surgeons contribute to giving the best care possible to patients with general otolaryngology conditions at Banner – UMC Phoenix. They represent varied fiduciary backgrounds including surgeons in prominent private practices in the Phoenix Valley, surgeons aligned with Banner Health, and those contracted to provide inpatient coverage via locum tenens arrangements. Diseases of the Ear, Nose and Throat (ENT) are managed with expertise and areas of focus include endoscopic sinus surgery, laryngology, voice and swallowing disorders, facial and airway trauma, skull base surgery, oncologic head and neck surgery and other sophisticated ENT subspecialty procedures.

Dan Chapel, MD, Chetan Gujrathi, MD, Tim Haegen, MD, John Macias, MD, John Milligan, MD, Ryan Rehl, MD, Griffin Santarelli, MD, Manikandan Sugumaran, MD, Shawn Stevens, MD, and Mark Whitaker, MD are respected colleagues with national expertise in ENT specialty surgery and decades-long service to the Phoenix community.

Surgical Specialties: Pediatric Surgery

Pediatric Surgery at Cardon Children’s Medical Center provides a comprehensive experience for the PGY3 residents in managing surgical ailments in children, while working closely with the attending surgeons. Residents have a balanced learning experience in the clinic, operating room and on-call. They are able to perform surgeries in children safely in a highly supervised atmosphere. An additional unique aspect of the Pediatric Surgery rotation is that residents work with Advanced Practice Providers every day and obtain direct opportunity to learn about work in a non-academic environment.

Led by Dr. Ravindra Vegunta, Pediatric Surgery at Cardon’s is centered around the philosophy that surgeons devote their lives to help others perform at their best and achieve more than they thought was possible, especially in restoring health to children, who are the most vulnerable and most priceless for humanity’s future. Research is viewed as essential for progress and the pediatric surgeons at Cardon’s contribute scientific publications and numerous community public service speaking engagements.

Ravindra Vegunta, MD
Chief, Pediatric Surgery
Professor of Surgery
Professor of Child Health

Heidi Cox, MD
Professor of Surgery
Professor of Child Health

Jonathan Greenfield, MD
Associate Professor
Surgery and Child Health

Wayne Truong, MD
Assistant Professor
Surgery and Child Health

“Every child is a story yet to be told.”

- On a wall of the infant/toddler unit at Cardon Children’s Medical Center in Mesa
Surgical Specialties: Plastic/Reconstructive and Wound Care Surgery

Glenn Silverstein, DPM
Assistant Professor

Vas Saheeh, MD
Plastic and Reconstructive Surgery

David C. Yao, MD
Plastic and Reconstructive Surgery

Molly F. Walsh, DO
Plastic and Reconstructive Surgery

Joshua Mirrer, MD, Todd Richards, MD, Christopher Yang, MD, and Josef Zoldos, MD

The Division of Plastic and Reconstructive Surgery is a fully integrated program of employed, contracted and community-aligned physicians focused on executing the vision of providing highly reliable, evidence-based academic plastic and reconstructive care through the performance of the most progressive interventions and the training of highly effective clinicians achieving highly reliable outcomes. A continuous focus on innovation, evidence-based practice and quality outcomes is the primary driver of our pursuit of excellence.

A large, urban academic center such as Banner – University Medical Center Phoenix requires the support of a plastic surgery division in the care of many of its patients. Plastic Surgery supports the Level 1 Trauma Center with plastics call coverage 365 days a year. Team members consult on new patients in the hospital setting and provide post hospital/post surgical care in the Plastic Surgery Center on campus. New referrals to the program originate from all over the metropolitan area, from across the state and the Southwest. Patients are seen in our modern clinic which is supported by allied physicians in vascular surgery, general surgery, orthopedic surgery, wound care, podiatry and hyperbaric medicine. In addition to the physicians above, who are part of the residency teaching faculty, contributors to this division include surgeons Lloyd Champagne, MD, Kevin Han, MD, Michael Larsen, MD, Allen Liu, MD, Joshua Mirrer, MD, Todd Richards, MD, Christopher Yang, MD, and Josef Zoldos, MD as well as allied health providers Mariel Price, FNP and Kathryn Graeve, FNP.

Our clinicians partner with surgeons in our other surgical departments in providing the safest care. Through the support of plastic surgery, patients with complex needs can be treated. This includes patients with abdominal wall defects, face and head trauma and disorders, gynecological and rectal reconstructive needs, breast reconstruction post breast surgery, medically necessary body contouring, hand to shoulder injuries and disorders, aesthetic plastic surgery, and a variety of other conditions requiring the support of skilled clinicians.

The immediate focus of this program will be to grow and develop the best plastic and reconstructive surgeons in an effort to drive program development and provide education for the next generation of surgeons. This also includes leadership roles to assist with directing the strategy for specialty center development, residency and fellowship formation.

Surgical Specialties: Trauma, Surgical Critical Care and Acute Care Surgery at Banner – University Medical Center Phoenix

The Division of Trauma, Surgical Critical Care and Acute Care Surgery is dedicated to exceptional patient care, advancing surgical knowledge through innovative research and training future surgeons in a diverse, inclusive environment. The Division was designed to respond to any emergency surgical issue 24/7 with fully equipped state-of-the-art trauma bays and Surgical Trauma Intensive Care Unit (STICU) in our fully-verified American College of Surgeons Level 1 Trauma Center.

Patrick Bosarge, MD, FACS, FCCM was appointed the inaugural Chief of the Division in February 2019 to increase the faculty to eight double-boarded surgeons who also practice surgical critical care medicine. Their collective focus continues to be to provide outstanding education to residents, medical students, and the community and to increase our research portfolio.

Allison Tompeck, MD has been appointed the Director of the Surgical Trauma Intensive Care Unit. Under her leadership, the goal is to expand expert surgical critical care for all surgical specialties at Banner – University Medical Center Phoenix.

Natasha Keric, MD, Allison Tompeck, MD and Amy Sisley, MD have spearheaded the development of a Comprehensive Necrotizing Soft Tissue Service for the Banner Healthcare System. This unique service provides expert care through initial operative intervention to ICU care to reconstruction.

Rural Trauma Outreach has been a long-time passion of Corey Detlefs, MD. Dr. Detlefs continues this important mission throughout the state of Arizona with more than 100 Rural Trauma Team Development Courses (RTTDC) since the inception of the program, which he was instrumental in building for the American College of Surgeons.
Advanced Surgical Associates is a comprehensive practice providing general surgery and surgical subspecialty care, primarily focused to serve the East Valley of Phoenix. It is a distinguished practice with long-standing roots in the Phoenix community and many years of recognition for its board-certified surgeons as Phoenix Top Docs. One of its specialty divisions is Trauma Surgery and Critical Care, which the group provides at Banner Desert Medical Center, designated as a Level I Trauma Center. To their patients, the surgery partners of Advanced Surgical Associates provide the highest quality surgical care and to the residents an additional breadth of exposure to expert care of trauma patients.

The Division of Urology is committed to providing high quality, state-of-the-art urologic care to the community and the region. The unique program is staffed entirely by private practice urologists who are passionate about medical education. Over the past year, the Urology Division has experienced substantial growth in both total patient volume and surgical caseload. This has allowed, among other achievements, an expansion to include full-time outpatient urodynamic capabilities in order to reach a broader array of patients and to meet the needs of other academic departments on campus.

The Urology Institute is an ambulatory setting through which a broad spectrum of urologic care is delivered on the campus of Banner University Medical Center – Phoenix. Surgeons dedicated to this campus have national reputations with considerable scholarly activities and include Bruce Kletscher, MD, Scott Kalinowski, MD, Shane Daley, MD and Adrian Feng, MD. Integral to their team for patient care at Banner – UMC Phoenix are Chris Ferguson PA-C, Sarah Moore AGNP-C, Patric Sierzega PA-C, and Jeanine Yates FNP-BC. Dr. Kletscher was elected by hospital staff to serve as Chief of Surgery for Banner – UMC Phoenix in 2020. These surgeons provide expertise in general urology disorders, subspecialty care for both male and female urologic conditions and urinary tract disorders, and pelvic restoration.
Finding the right medical solution for a vascular condition can sometimes be intimidating and confusing. Vascular Surgery Specialists understand those concerns and are committed to listening to the patient, answering questions with up-to-date information, and providing the highest quality care with respect and compassion. The philosophy of our care is to treat each of our patients in the manner that we would want for our own families and ourselves. Vascular Surgery Specialists provide expertise in the full range of treatment options—from minimally invasive and endovascular procedures to open exposure surgery—tailored to finding the best solution for you. Our professional surgical team and staff are dedicated to making your experience the best it can be.

In addition to being expert vascular surgeons, Jeromy Brink, MD, Brett Siegrist, MD, Martin Zomaya, MD and Winston Thomas, MD are integral members of the teaching faculty for the Department of Surgery. They contribute countless educational sessions, surgical training in the operating room, scholarly research project participation and inspiration. Annually, Dr. Jeromy Brink hosts the Vascular Surgery Grand Rounds Lectureship dedicated to the legacy of legendary Phoenix and Good Samaritan Hospital vascular surgeon Dr. Ismar Cintora. In the last decade, the Vascular Surgery teaching faculty have inspired the highest number of residents to choose their specialty and seek dedicated fellowship training in Vascular Surgery.

Name the Brink: Which of these surgeons is vascular surgeon Dr. Jeromy Brink? (answer on inside back cover)
Academic medicine, academic surgery and academic medical centers (AMC) are terms that have been in use for so long that most physicians no longer pause to consider what they mean. The complexity and diversity of academic brands obscure this further: “once you have seen one AMC, you have seen one AMC.” When surgeons of the Department of Surgery embraced the trailblazing mission statement “To create the first Academic Department of Surgery in the fifth Largest City in the Country,” they faced a challenging question: What is Academic Surgery?

Over the last two years, our Department of Surgery has explored that question and navigated the evolution of a new academic campus that joined the first ever MD degree-granting university in Phoenix with a six-state healthcare giant. The “triple threat” (mastery of clinical care, education and research) in modern AMCs functions more like a “quadraple aim” with the 4th arm being healthcare systems and their complexity. The Annual Report highlights and celebrates some of our academic accomplishments. We present the top three discoveries from this unique point in the lifetime of a department.

**The Effect of Ketogenic Diet on Traumatic Brain Injury**

Patrick Bosarge, MD

The presentation of work by Dr. Bosarge at the 2019 International Surgical Congress in Amsterdam has already been highlighted in a Top 10 list. His previous work on the effect of ketogenic diet on traumatic brain injury (J Surg Res 97, 1-8; 2001) as president of the Association of Academic Surgeons.

**Cervical Spine Clearance Guidelines in Blunt Trauma**

Natasha Keric, MD

This work was presented at the American Association for the Surgery of Trauma meeting recently in St Louis, Missouri. The paper on cervical spine guidelines for blunt trauma continues the legacy of research started in the mid-1990s.

**Early Fecal Microbiota Transplantation for Severe C. Diff**

Allison Tompeck, MD

This work was presented at the American Society for Gastrointestinal Endoscopy meeting in Denver, Colorado. It is a continuation of the very successful work presented at the ISLTS meeting earlier this year.

**The Effectiveness of 3D Printing for Maxillofacial Reconstructions**

Savannah Weedman, MD, DDS

This work was presented at the American Academy of Facial Plastic and Reconstructive Surgery meeting in Chicago, Illinois. It is a continuation of the very successful work presented at the ISLTS meeting earlier this year.

**ACADEMIC SURGERY**

**Message from the Vice Chair for Academic & Faculty Affairs**

Mira Milas, MD

**1. The “Why” Matters**

In addition to the “Golden Rule” living by the “Golden Circle” makes life better. Explore the “WHYS” shared on the next pages. Visit the original TED Talk by Simon Sinek on how great leaders inspire action.

https://www.ted.com/talks

**2. Words Matter**

A most enlightening perspective of what it means to be an academic surgeon came from David I. Soybel, MD (J Surg Res 97, 1-8; 2001) as president of the Association of Academic Surgery. “Academic surgery is a community.” “Mainly what is required is clinical competence and a willingness to be part of the community’s effort to raise the young.” And to be centered around the patient, hence we were inspired to sketch these ideas here.

Dr. Soybel also proposed the need for devotion to a domain of expertise: surgery and clinical care, education, research, innovation, health systems. These are echoed in the joint Banner and University of Arizona mission statement on page 49. Aspirations like these help encourage the path onward. They also hold us accountable to the future.

Every one of us in medicine exists because of an academic medical center. Every one of us also is fully qualified to be an academic surgeon. How will you partake in this diagram?

**3. Your Home Matters**

Bloom where you are planted. Some surgeons in our AMC can trace their Arizona roots for generations. The past and the future can coexist. A new academic Department of Surgery leaves an immeasurable legacy to future generations.

**Faculty Seed Grant Winners**

As a stimulus for research and innovation by a new academic surgery department, Steven B. Johnson, MD, the first chair of surgery, established an annual grant awarding cycle in 2018. Listed here are the faculty principal investigators and their research studies which received seed grants via this peer-reviewed process.

**THE EFFECT OF KETOCGENIC DIET ON TRAUMATIC BRAIN INJURY**

Patrick Bosarge, MD

**CERVICAL SPINE CLEARANCE GUIDELINES IN BLUNT TRAUMA**

Natasha Keric, MD

**EARLY FECAL MICROBIOTA TRANSPLANTATION FOR SEVERE C. DIFF**

Allison Tompeck, MD

**3D PRINTING FOR MAXILLOFACIAL RECONSTRUCTIONS**

Savannah Weedman, MD, DDS

**Faculty Annual Recognition Awards**

**Alfredo Fabrega, MD**

Teaching

“This is an individual who is widely regarded by residents for their efforts in teaching. Residents recognize that they learn something new or acquire a new skill because of direct coaching from this individual. This is a person who is capable of making even the most complex topics understandable.”

**Natasha Keric, MD**

Innovation

“This is an individual who developed or implemented a new program or idea that created positive change, perhaps by finding a novel solution to a common problem or applying new solutions to meet new requirements. This person is recognized as a trailblazer.”

**Jon King, MD**

Leadership

“This is an individual who leads by example in all aspects of our profession. This individual inspires others to their best performance and motivates the teams he/she leads to accomplish their goals.”

**Robin Blackstone, MD**

Research

“This is an individual who has made significant contributions to medical knowledge. This person is academically productive, with scholarly publications representing UA/Banner nationally and/or internationally. This person has contributed to the infrastructure of our academic center and has established new research collaborations. This person actively mentors residents and/or medical students on scholarly projects.”

**Ping Wang, MD**

Clinical Excellence

“This person is the surgeon’s surgeon. He/she has consistent dedication to patient best practices and outcomes and commitment to evidence-based practice. This person is known as a patient advocate. He/she lives out their expertise in a maximal fashion not only sharing their wisdom with their learners but encouraging their colleagues to adopt evidence-based best practices.”

**Richard T. Perry, MD**

THE MASTER AWARD

“Lifetime achievement award. One of a kind. Best of the best. Surgeon who has received or symbolizes all five of the other award categories.”

Inaugurated in June 2019 by being bestowed on Richard T. Perry, MD, Professor of Surgery and Chief of General Surgery.
The Stone Surgery Day is a tradition inaugurated in 2004 to honor Harlan Stone, MD, legendary and beloved Program Director of the Phoenix Integrated Surgery Residency Program (PISR). Dr. Stone propelled the PISR program to national prominence as the top community-based general surgery residency in the USA during the 1990’s. Stone Surgery Day takes place annually in June and precedes the day of graduation by the chief residents. Invited speakers are always surgeons of exceptional national and international distinction. In 2019, for the occasion of the 15th annual Stone Surgery Day, our department launched the first Scholarship Day, expanding the academic festivities to include poster and podium presentations by surgery residents. Thank you to our clinical and scientific collaborators for the success of this amazing day.

**The Stone Visiting Professors**

- 2005: William Stone, MD
- 2006: Richard Mullins, MD
- 2007: Bhagwan Satiani, MD
- 2008: Tim Fabian, MD
- 2009: William Brouder, MD
- 2010: Christopher “Chip” Baker, MD
- 2011: Lee Swanstrom, MD
- 2012: David V. Feliciano, MD
- 2013: J. David Richardson, MD
- 2014: Richard Mullins, MD
- 2015: Bhagwan Satiani, MD
- 2016: Tim Fabian, MD
- 2017: Lawrence J. Koep, MD
- 2018: Anthony "Tony" Meyers, MD
- 2019: Richard Thirlby, MD

**Investigator-Initiated Studies Registered with the UA IRB for 2019-2020**

- Robin Blackstone, MD (BARIATRICS)
  - POST-OPERATIVE OUTCOMES IN BARIATRIC SURGERY PATIENTS TREATED WITH NARCOTIC VS NON-NARCOTIC PAIN MANAGEMENT
  - THE ROLE OF LIVER FIBROSIS IN BARIATRIC SURGICAL PATIENTS ASSESSMENT OF PATIENT OUTCOMES FOLLOWING REVISIONAL BARIATRIC SURGERY
  - LAPAROSCOPIC CHOLECYSTECTOMY IN PATIENTS WITH CARDIOGENIC SHOCK
  - CARDIOGENIC SHOCK: MORBIDITY AND MORTALITY OF PATIENTS BASED ON STATUS OF PRIOR CHOLECYSTECTOMY

- Jeffrey Brink, MD (TRANSPLANT)
  - UTILIZATION OF THE LEFT RENAL VEIN FOR SMV RECONSTRUCTION DURING WHIPPLE PROCEDURES
  - IR STENTING FOR GASTRODUODENAL ARTERY LEAKS FOLLOWING WHIPPLE PROCEDURES

- Natasha Keric, MD (TRAUMA)
  - INFECTION AFTER PENETRATING BRAIN INJURY (MULTICENTER)
  - TRAUMA INCIDENCE PATTERNS AFTER INTRODUCTION OF MEDICAL MARIJUANA
  - CERVICAL SPINE CLEARANCE GUIDELINES IN BLUNT TRAUMA
  - AC/AE MEDICAL STUDENT SIMULATION-BASED SURGICAL SKILLS CURRICULUM

- Patrick Bosarge, MD (TRAUMA)
  - PHASE III EFFICACY AND SAFETY STUDY OF ABDS IN THE TREATMENT OF PATIENTS WITH NECROTIZING SOFT TISSUE INFECTIONS (ACUTE)
  - PHASE 2 STUDY OF RELECMOD VS PLACEBO IN PATIENTS WITH SEPSIS-ASSOCIATED ACUTE KIDNEY INJURY
  - OPTIMAL MANAGEMENT OF TRAUMATIC ESOPHAGEAL PERFORATION
  - KETOGENIC DIET FOLLOWING A TRAUMATIC BRAIN INJURY

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Message from the Vice Chair for Quality and Patient Safety
Nirav Patel, MD

How will you improve the health of an entire population? Banner Health asks this question daily. How will we make healthcare be easier? Less costly? More accessible? With better outcomes? How can we make life better? Our teams in Quality and Patient Safety address these same questions as they affect surgeons. How will you make a difference? We aim to prevent complications, save lives, and reduce healthcare costs. Highlighted here are quality improvement resources available to our surgeons and key accomplishments and recognitions that reflect our daily commitment to each person we serve.

Nirav Patel, MD
Associate Professor
Trauma and Critical Care Surgery

Executive Surgical Careers

Leadership is critical to all aspects of the Department of Surgery. Highlighted here are surgeons who by their influence, talent and vision serve the surgical community via executive roles within both hospital domains at Banner – University Medical Center Phoenix, formerly Banner Good Samaritan Medical Center, and corporate domains at Banner Health (BUMD: Banner University Medical Division, BMG: Banner Medical Group).

Watson Health: 100 Top Hospitals® 2019

Banner – University Medical Center Phoenix has been named to the nation’s 100 top hospitals by Watson Health (formerly Truven Health Analytics) in recognition of clinical, operational and customer satisfaction scorecard metrics such as
- Higher survival rates
- Fewer complications and infections
- Shorter length of stay
- Shorter ED wait times
- Lower inpatient expenses
- Higher profit overall margins
- Higher customer satisfaction
DR. BLACKSTONE 
Because no one else will

DR. SOURDEGE 
LOVING WHAT YOU DO WHICH IS THE CLASSICAL 
TRUTH OF THE MATTER DR. JEFFREY BRINK 
WHY? I KNOW I DID THE RIGHT THING WHEN I LIFTED A BURDEN. IN THAT 
MOMENT WHEN AFTER FINISHING A SURGERY AND GOING TO GREET MY PATIENT'S FAMILY I CAN HEAR THE RELIEF 
THEY HAVE DR. JEROMY BRINK 
I TRULY HAVE A PASSION FOR VASCULAR DISEASE AND THE PATIENTS WHO HAVE IT. 
THEY ARE SOME OF THE MOST GRACIOUS AND KIND PATIENTS AND IF I CAN HELP OUT A LITTLE BIT AND IF I CAN GIVE 
A LITTLE THEN IT IS A WIN WIN DR. BROWN 
BECAUSE I'M PERSON DRIVEN TO HELP OTHER PEOPLE 

DR. BROWN 
BECAUSE THERE'S ALWAYS A WAY TO DO BETTER; IF WE DO NOT, WE WILL NEVER HAVE "ARRIVED" DR. 
DABROWSKI 
"THE GREATEST ACCOMPLISHMENT COMES FROM THE GREATEST OF COMMITMENTS"/MARIAN 
DIAMOND PHD 

DR. DOBROW 
TO HELP PEOPLE 

DR. DOBROW 
REWARDING.

IT'S ALWAYS MORE BLESSED TO GIVE THAN TO RECEIVE DR. EVANI 
BECAUSE I LOVE IT

DR. FABREGA 
I JUST ENJOY WORK. PEOPLE MATTER, SO I TRY TO HELP 

DR. GOODMAN 
BECAUSE THERE'S ALWAYS A WAY TO DO BETTER; IF WE DO NOT, WE WILL NEVER HAVE "ARRIVED" DR. 
FANG 
EVERY TIME YOU STEP INTO THE OPERATING ROOM YOU HAVE SOMEONE'S LIFE IN YOUR HAND AND YOU GET TO 
MAKE AN IMPACT DR. FEINSTEIN 
THE JOY IS IN THE WORK NOT IN THE ACCOLADES DR. KERIC 
PATIENT CARE AND 
MENTORSHIP DR. KING 
PATIENTS ALWAYS FIRST DR. LOVATO 
ADVANCE RESEARCH AND ADVOCACY FOR THE CARE OF 
ALL PATIENTS WITH OBESITY DR. METZGER 
WHY? BECAUSE SURGERY IS GENUINELY BEAUTIFUL AND FASCINATING 
WORK AND IT IS A PRIVILEGE TO DO DR. MILAS 
TO MAKE A DIFFERENCE DR. PATEL 
CLEARLY TO IMPACT LIVES. THAT'S WHAT'S IMPORTANT DR. PERRY 
BECAUSE I CARE DR. PRESTON 
WHY? I JUST LOVE IT JODY RUNGE MS, RN 
TO SERVE ALL I ENCOUNTER IN ORDER TO TRANSFORM MEDICINE AND IMPROVE THE WELL-BEING OF OUR BELOVED PATIENTS 

DR. SILVERSTEIN 
I'M THE HAPPIEST WHEN I HELP TO HEAL AND TO MAKE YOU SMILE AMBER SANDOVAL-MENENDEZ 
MS4 GIVE MORE TO THE MOST IMPORTANT PEOPLE IN YOUR LIFE DR. SILVERSTEIN

DO YOUR DUTY (DO A GOOD JOB, BE TRUE TO MYSELF DR. SISLEY

BECAUSE I WANT TO PASS IT ON KNOWLEDGE, COMPASSION, ENTHUSIASM, PASSION, SKILL JOHN SPEARMAN MBA 
BECAUSE IN THE MOMENTS BEFORE WE LEAVE THIS EARTH, EVERY PERSON SHOULD KNOW IN THEIR HEART THAT THEY HAD THE OPPORTUNITY TO LIVE LIFE TO THEIR HIGHEST POTENTIAL... HEALTHCARE IS A RIGHT... YOU ONLY LIVE ONCE DR. SURPURE 
WHY? YOU CAN'T KNOW WHERE YOU WANT TO GO UNLESS YOU THINK ABOUT IT FROM TIME TO TIME DR. TOMPECK 
MAKE A DIFFERENCE IN JOE PATIENT OUTCOMES VIA EDUCATION AND COLLABORATION DR. WEEDMAN 
TO RAISE AWARENESS, RAISE STANDARDS AND CHAMPION QUALITY OF LIFE FOR PATIENTS NEEDING HEAD AND NECK RECONSTRUCTIVE SURGERY DR. WOLFORT 
SOLVE DIFFICULT PROBLEMS MORE THAN ONE SURGEON DO THE RIGHT THING/COMMITMENT/BECUSE IT'S THE COOLEST THING IN THE WHOLE WORLD/ENTHUSIASM/LOVE/DO SOMETHING GOOD/BE THE BEST AT GIVING SOMEONE THEIR LIFE BACK/BUILD THE FUTURE/DUTY/I AM A SURGEON AND I AM HUMAN BANNER HEALTH MAKING HEALTH CARE EASIER SO LIFE CAN BE BETTER UNIVERSITY OF ARIZONA COLLEGE OF MEDICINE PHOENIX INSPIRE AND TRAIN EXEMPLARY PHYSICIANS, SCIENTISTS AND LEADERS TO OPTIMIZE HEALTH AND HEALTH CARE IN ARIZONA AND BEYOND #WHATSYOURWHY
The Answer from Our Surgery Residents

Community, Camaraderie and Commitment
Heritage and Legacy: Phoenix Integrated Surgical Residency

The Phoenix Integrated Surgical Residency (PISR) was one of the first surgical training programs in the Southwest and is proud to have trained more Arizona surgeons that any other program in the country. Founded in 1954, it became the University of Arizona College of Medicine – PISR in 2015. A comprehensive educational experience is provided, involving a wide breadth of patient diseases and operative opportunities in the community and academic environments. We take pride in giving each resident the experience, knowledge, and training to become an independent, confident and technically proficient surgeon: a great “general” general surgeon.

The saguaro cactus only grows in the Sonoran Desert. In the USA, the mighty saguaro can be found only in Arizona. It takes 50 years before it can grow a branch. The saguaro pictured here is 180 years old.
DISCLAIMER
Welcome to this 1st edition of the Annual Report ("Report"). The information here contained is for general information purposes only and provided by UA and Banner Health. While we endeavor to keep the information up to date and correct, we make no representations or warranties of any kind, express or implied, about the information or related graphics. We take no responsibility for, and will not be liable for, any omissions, representations or other use of report contents.

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Advanced Health Care is What We Do
Finding answers to inspire endless possibilities
is our mission at the institutes at Banner - University Medical Center Phoenix

- **Advanced Liver Disease (1441 Bldg)** 602.521.5800
- **Bariatric Surgery/Obesity Medicine (1441 Bldg)** 602.521.3050
- **Behavioral Health Center (Edwards Bldg)** 602.521.3600
- **Breast Center (Main Hospital)** 602.839.6300
- **Concussion Center (1320 Bldg)** 602.839.7285
- **Diabetes & Endocrine Institute (1441 Bldg)** 602.521.5200
- **Digestive Institute (1441 Bldg)** 602.521.5180
- **Endocrine Surgery (1441 Bldg)** 602.521.5969
- **Family Medicine (Edwards Bldg)** 602.839.4567
- **General Surgery (1441 Bldg)** 602.521.5969
- **Heart Institute (755 Bldg)** 602.521.3090
- **Infectious Disease (Edwards Bldg)** 602.521.4675
- **Infusion Center (Main Hospital)** 602.839.3963
- **Imaging (Main Hospital)** 602.839.5097
- **Internal Medicine (Edwards Bldg)** 602.839.3927
- **Interventional Radiology Center (Main Hospital)** 602.839.5097
- **Lung Institute (755 Bldg)** 602.521.3400
- **Medical Imaging Center (Main Hospital)** 480.684.7500
- **Neuroscience Institute (755 Bldg)** 602.521.3300
- **Oral Maxillofacial Surgery Center (1441 Bldg)** 602.521.5150
- **Orthopedic & Spine Institute (755 Bldg)** 602.521.3250
- **Outpatient Therapy Services (755 Bldg)** 602.521.3060
- **Physical Medicine and Rehabilitation (755 Bldg)** 602.521.3300
- **Rheumatology (Edwards Bldg)** 602.521.3000
- **Rehabilitation Institute (755 Bldg)** 602.521.3300
- **Sickle Cell Center (Main Hospital)** 602.839.5200
- **Toxicology (Edwards Bldg)** 602.839.6690
- **Transplant Institute (1441 Bldg)** 602.521.5900
- **Trauma and Emergency Surgery (1441 Bldg)** 602.521.5968
- **Urology Institute (1441 Bldg)** 602.521.5770
- **Women’s Institute (1441 Bldg)** 602.521.5700
- **Wound & Reconstruction Institute (1012 Bldg)** 602.839.6040