

# ANNUAL REPORT 2019-2020

 **Banner Health.**



THE UNIVERSITY OF ARIZONA  
COLLEGE OF MEDICINE PHOENIX

**Surgery**







**Banner – University Medical Center Phoenix New Patient Tower** Our new 16-story patient tower opened in November 2018 and anchors the largest medical complex in Arizona: Banner – UMC Phoenix. Prominently visible along the I-10 corridor, our growing campus features *all new private rooms, 24 state-of-the-art operating rooms, specialized ICUs and ER, advanced Surgical Simulation Center and the Canyons Conference Center*. On the cover, a surgeon views the new tower and her future from the iconic round window architecture of the original Good Samaritan Hospital constructed in 1980. *The future is full of endless possibilities.*



# 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.

## Table of Contents

Introduction .....	1
Who We Are .....	7
The Department At-a-Glance .....	8
Clinical and Training Sites .....	12
Residency Programs.....	16
Innovative Curriculum.....	18
Simulation	
Robotic Surgery	
Medical Student Education	
Fellowships and NASA	
Who We Are: The Residents.....	22
Surgery Specialties.....	24
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	
Academic Surgery.....	46
What is Your Why?	
Quality and Patient Safety	
Executive Surgical Careers	
Scholarship, Research & Awards	
Publications	
Heritage and Legacy.....	58



---

**MESSAGE FROM**  
**The Dean**  
**Guy Reed, MD, MS**



As we enter our second decade as a true 21<sup>st</sup> 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.***

---

**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 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.

## 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 10<sup>th</sup> 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 50<sup>th</sup> anniversary of that feat. And look forward to inspiring and shaping who we will be 50 years from now in the world of surgery.

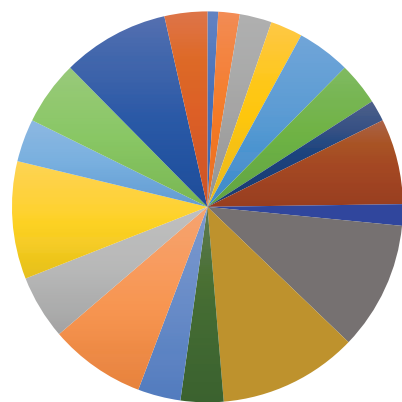
Academic medical centers transform the communities in which they reside and create leadership in all spheres of civic life. Our great challenge in 2020 is to integrate a legendary community hospital with an emerging and transformative medical university. Some in our department have already and will continue 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.

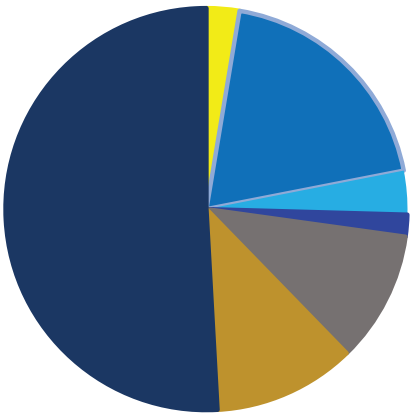




The Department At-a-Glance 2019-2020



- 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)
- Phoenix Veterans Affairs Center (12)
- Alaska Native Medical Center (13)
- Cardiothoracic Surgery (4)
- Colorectal Surgery (4)
- General Surgery (9)
- Hepatobiliary and Transplant Surgery (6)
- Plastic and Reconstructive Surgery (11)
- Vascular Surgery (4)
- Trauma and Critical Care Surgery (6)
- Otolaryngology/Head and Neck Surgery (10)
- Urology (4)



- 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.

The Department At-a-Glance 2019-2020

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) Evani, 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**

Jeffrey Brink, MD\*  
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

**Trauma/Critical Care/EGS**

Patrick Bosarge, MD  
Paul Dabrowski, MD  
Corey Detlefs, MD\*  
Ara Feinstein, MD, MPH  
Natasha Keric, MD  
Jon King, MD\*  
Nirav Patel, MD  
Amy Sisley, MD, MPH  
Allison Tompeck, MD

**Plastic/Reconstructive and  
Wound Surgery**

Glenn Silverstein, DPM  
Nathan Plaskey, DPM  
Vasif Sabeeh, DO  
David Yao, MD  
Molly Walsh, DO  
Lloyd Champagne, MD  
Jozef Zoldos, MD

**Vascular Surgery**

Jeromy Brink, MD  
Brett Siegrist, MD  
Winston S. Thomas, MD  
Martin Zomaya, MD

BANNER DESERT

**Pediatric Surgery**

Heidi Cox, MD  
Jonathan Greenfield, MD  
Wayne Truong, MD  
Ravindra Vegunta, MD

**General Surgery/EGS**

Susan Cortesi, MD  
Lawrence Damore, MD  
Daveshni Kumar, MD\*  
Matthew Marini, MD\*  
Kevin Masur, MD\*  
Mark Runfola, MD\*  
Greg Rula, MD\*

**Trauma/Critical Care**

Lindsay Bartholome, MD  
Kristina Bermas, MD  
Jeffrey Perumean, MD  
John Kizer, MD  
Jeffrey Salomone, MD  
Julie Wynne, MD

VETERANS AFFAIRS

Howard Bourdages, MD  
Sheldon Brown, MD  
Ambuhakshan Dildeep, MD  
William Dolan, MD  
Vivienne Halpern, MD  
Wesley Lewis, MD  
Madhavi Meka, MD  
Bruce Potenza, MD  
J. Dudley Pyeatt, MD  
Eric Romanucci, MD  
Mark Runfola, MD\*  
Ping Wang, MD

ALASKA

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

## ECONOMIC IMPACT BY 2025 OF UA COLLEGE OF MEDICINE – PHOENIX BIOMEDICAL CAMPUS



<https://www.arizona-leisure.com/phoenix-area-map.html>



## 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 1<sup>st</sup> 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 602-277-5551

The Phoenix VA Health Care System (PVAHCS) 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

4315 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

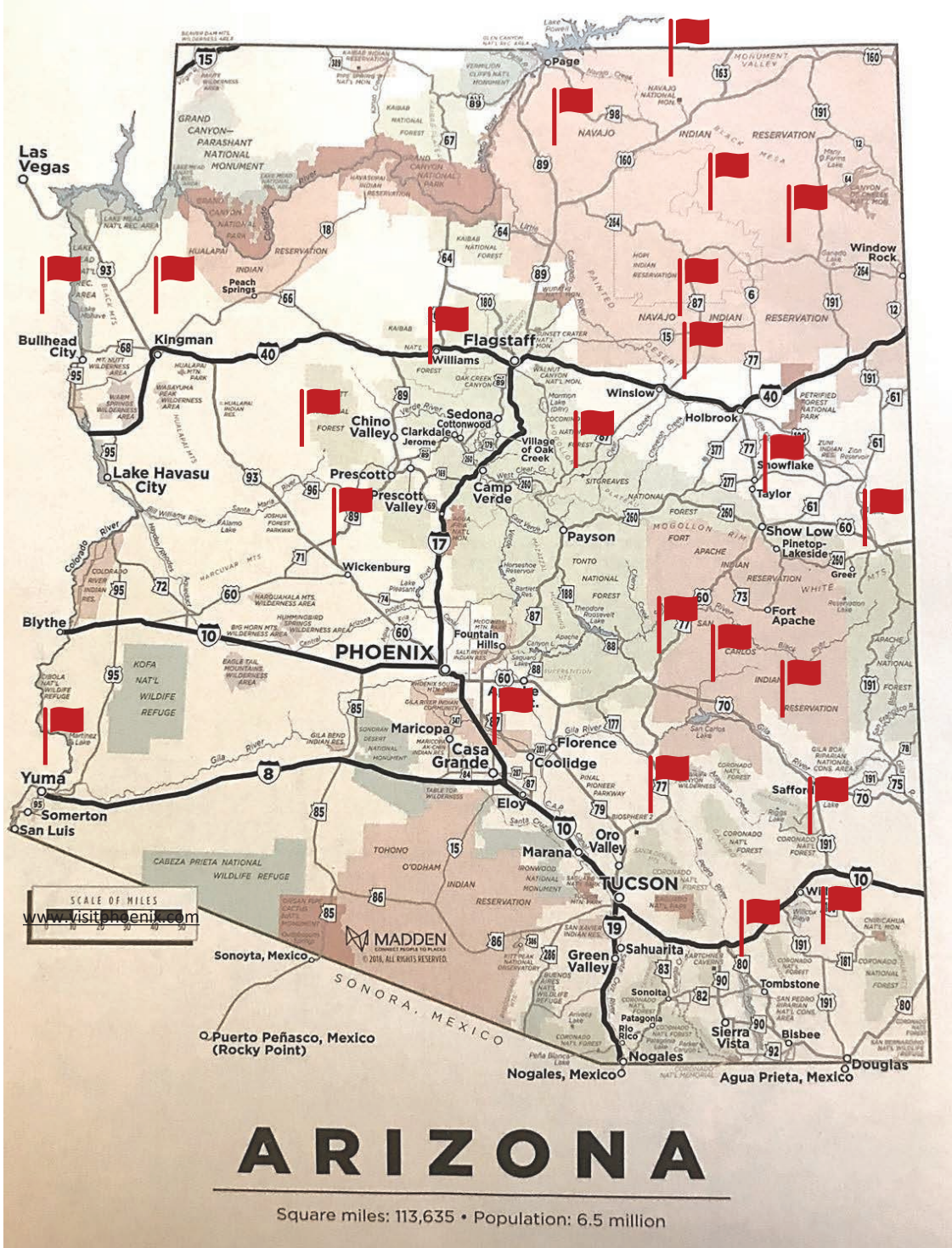
925 E McDowell Rd, Phoenix, AZ 85006 480-256-6444

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>

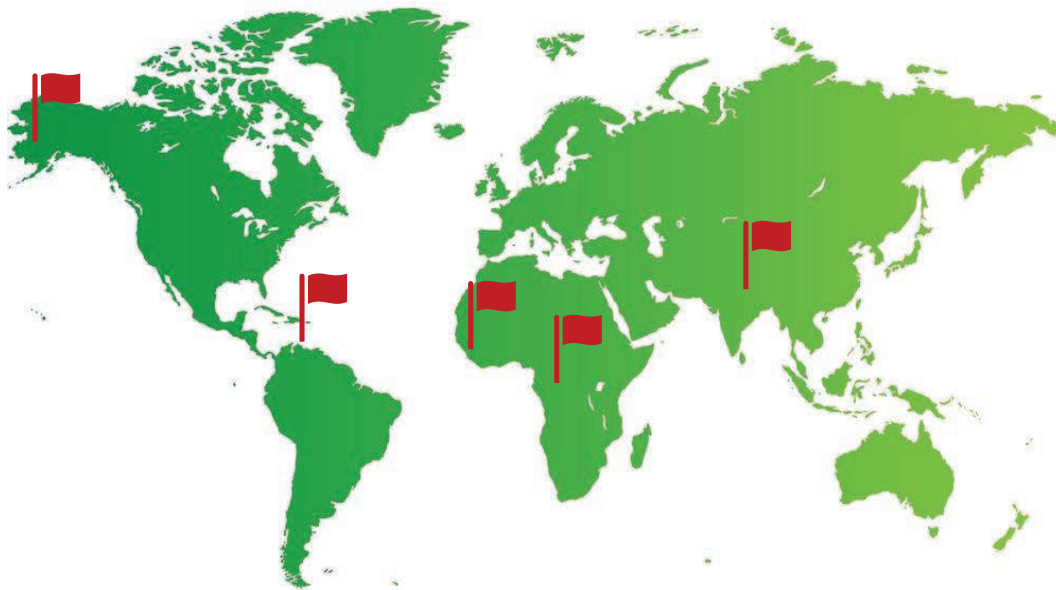


Clinical and Training Sites: Rural Outreach

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/DAVESHNI KUMAR, MD/ALEX NELSON, MD / SARAH ARNCE, PA
- ALASKA ALASKA NATIVE AND AMERICAN INDIAN COMMUNITIES/ CORE CURRICULUM TRAINING SITE FOR RESIDENCY





## Residency Programs: *General Surgery*

### Message from the Program Director, General Surgery Residency

Jennifer F. Preston, MD



**Jennifer Preston, MD**  
Program Director  
Assistant Professor



**Julie Ladwig, C-TAGME**  
Residency Coordinator



**Wendy Hylton, BA**  
Administrative  
Assistant

#### **Congratulations**

##### **Julie Ladwig**

was appointed to the Association of Residency Administrators in Surgery.

She also serves as the Executive Committee's liaison for the

**American College of Surgeons**

**SCORE Curriculum.**

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.



## Residency Programs: *Oral and Maxillofacial Surgery*

### Message from the Program Director, Oral and Maxillofacial Surgery Residency

Sudheer J. Surpure, MD, DDS, FACS



**Sudheer Surpure, MD, DDS, FACS**  
Assistant Professor



**Lori Warren**  
OMFS Program  
Coordinator

The University of Arizona College of Medicine – Phoenix Oral and Maxillofacial Surgery (OMFS) Residency Program is now nine years old and has graduated 12 residents. For a relatively new program, we have come a long way in a short time and celebrate the following achievements. This year we matched our two top candidates from a national pool of 186 applicants. For two consecutive years, 2018-2019, our residents collectively scored above average in all areas on our yearly in-service exam. Six of our residents have completed the two-year American Board of Oral and Maxillofacial Surgery certification process. Recent OMFS graduates pursued careers in private practice in Arizona, Oregon, Illinois and Washington. Some have completed fellowships or entered into academia.

We are extremely fortunate to have multiple community partners such as Banner Thunderbird Medical Center, the Phoenix VA Medical Center, Midwestern University College of Dental Medicine – Arizona and St. Vincent De Paul dental clinic. Forging these alliances has helped us achieve our educational goals of training well-rounded OMFS surgeons. Later in 2019 we look forward to our five-year accreditation site visit with the Commission on Dental Accreditation (CODA). In anticipation of the CODA visit, we have made additional updates and renewed our commitment to the excellence of our OMFS curriculum. In 2020, we look forward to welcoming **Karel deLeeuw, MD, DDS, MBA, FACS** as OMFS Division Chief and Center Medical Director to join **Benjamin Johnson, DDS** as our new OMFS Residency Program Director.

### Who We Are: *The OMFS Residents*



#### **PGY4 (Class of 2020)**

Emad Abdou, DDS  
Michael Hansen, DMD

#### **PGY3 (Class of 2021)**

Bentley Anderson, DDS  
Gordon Wong, DMD

#### **PGY2 (Class of 2022)**

Adam Bellack, DDS  
Thinh Nguyen, DMD

#### **PGY1 (Class of 2023)**

Taylor Duckworth, DDS  
Tyler King, DMD  
Kunal Patel, DMD

*Back row:* Thinh Nguyen, DMD, Taylor Duckworth, DDS, Michael Hansen, DMD, Travis Scholer, DMD (2019), Eric Wood, DDS (2019), Emad Abdou, DDS, Gordon Wong, DMD, Kunal Patel, DMD, Adam Bellack, DDS.  
*Front row:* Bentley Anderson, DDS and Tyler King, DMD



Residency Programs: *General Surgery*

Innovative Curriculum: *Robotic Surgery*



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).

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



Anchit Mehrotra, MD and Sarah Ogle, DO gave podium presentations at the 2019 Stone Scholarship Day. Guests in the audience included Harlan Stone, MD, William Stone MD, and Guy Reed, MD, MS, Dean of University of Arizona College of Medicine – Phoenix.

Residency Programs: *General Surgery*

Innovative Curriculum: *Surgical Simulation*

Message from the Associate Program Director for Simulation

Amy Sisley, MD



Amy Sisley, MD, MPH  
Associate Professor

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.

PGY	Module	Equipment	Preparation
2A	Endoscopy	Endoscopy Trainers	FES modules 1-5
1	Knot tying	Suture Knot tying board	ACS/APDS Module 2 Knot tying
1	Suturing	Banana/Orange Peels Suture Material	ACS/APDS Module 3 Suturing
2B	Endoscopy	Endoscopy Trainers	FES modules 1-5
5	Oral Board Practice	Prep Books	None
2	Ultrasound	US Machine Human Models	None
3A	FLS Practice	FLS Trainers	None
4A	FES Practice	Endoscopy Trainers	FES modules 6-12
1	Central Line Insertion	Mannequin US Machine Central Line Kits	ACS/APDS Module 9 Central Line Insertion
<b>Pig Lab</b>			
2	Laparotomy		ACS/APDS Modules 8, 11 Chest Tube Insertion Laparotomy Opening/Closure
3	Laparoscopic Left Colectomy		ACS/APDS Phase 2 Module 3 Laparoscopic sigmoid colectomy
4	Trauma Simulation		
2	Skin Grafts	Pig Dermatome/Mesh	ACS/APDS Module 5 Skin Grafts
1	Simsei Module 5	Lap trainers	
2	Bowel Anastomosis	Pig Intestine Suture Staplers ACS/APDS module	ACS/APDS Module 14,15 Hand Sown, Stapled
5	Oral Board Practice	Prep Books	None
1	Simsei Module 6	Lap trainers	
2	Arterial Anastomosis	PTFE or Home Depot material Suture ACS/APDS module	ACS/APDS Module 16 Arterial Anastomosis
1	Simsei Module 7	Lap trainers	Laparoscopic cholecystectomy



**SimET** is the new state-of-the-art Banner Simulation and Education Training Center that opened in June 2019 and features a fully-equipped OR and peri-operative staging areas. Ultrasound features prominently in the didactic curriculum and includes FAST, cardiac and neck modules.



## 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).



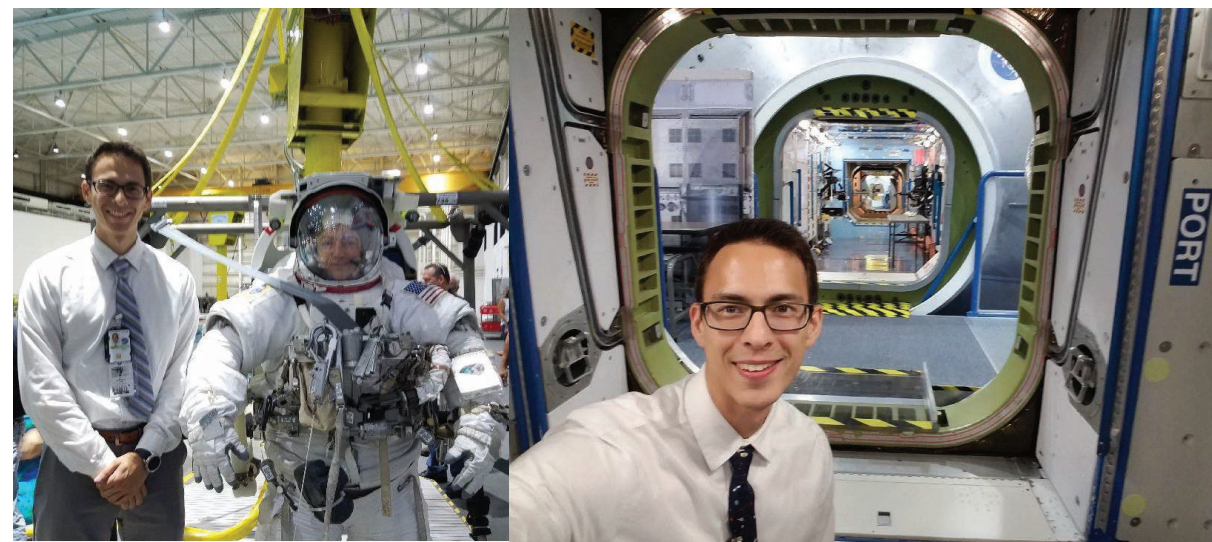
#### **Aerospace Medicine Residency NASA/ University of Texas Medical Branch Galveston, TX**

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.



#### **Department of Surgery Faculty-sponsored Resident Research Fellowships**

These are clinically oriented and database-driven one-year fellowships resulting in publications for Stacey Klyn, DO (2020), Ralitza Parina, MD (2021) and Caitlin Thornley, MD (2023).



"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**



Natasha Keric, MD  
Assistant Professor



Jason Taylor  
Clerkship Coordinator

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



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 Vaicius, MD  
*Indiana University School of Medicine*
- Alexandra Weston, MD  
*State University of NY Upstate*
- Michael Zhou, MD  
*University of Texas Southwestern*

PGY1  
PRELIMINARY

- Briana Britton, MD  
*Loyola University*
- Nicole Broden, MD  
*University of Washington*
- Steven Cross, MD  
*Michigan State University*
- Gregory Mozdyniewicz, DO  
*Midwestern University*
- Katherine “Katie” Wood, MD  
*University of Texas San Antonio*

- 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 Bohannon, MD  
*Oregon Health Sciences University*
- Seda Bourikian, MD  
*Virginia Commonwealth University*
- Daiji Kano, 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*

Who We Are: *The General Surgery Residents*

- 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*

- 2019 GRADUATES
- Milad Behbahania, 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*

- 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 Merz, MD  
*University of California – Los Angeles*
- Jessica Sloan, MD  
*University of Texas San Antonio*
- Emily Watters, MD  
*University of Texas San Antonio*





# SURGICAL SPECIALTIES

*“Alone we can do so little. Together we can do so much” — Helen Keller*

## Those Who Make It Happen

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



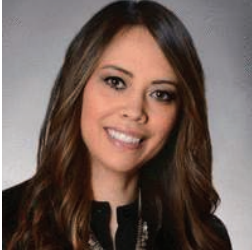
**Jeffery Fowler, RRT, MBA**  
Practice Administrator



**Matt Kraemer, PT, DPT**  
Institute Director



**Jacob Hyatt, PT, DPT**  
Institute Director



**Jody Runge, MS, RN**  
Institute Director



**Cari Olvera, MSN, BSN, RN**  
Director of Surgery



### Clinical Leaders and Managers

Linda Archambault, BA  
Sam Chamas, MBA  
Alexandra Lowery, BSA  
Mark Loudenslagel, MA, MBA  
Christopher Myatt, MBA

### Surgery Leaders and Managers

Susan Howden, MSN, RN  
Georgie Elias, BSN, RN  
Deb Donovan, BSN, RN  
Lamond Dean, C-CSPD  
Veronica Molinar, BA

### Nursing Unit Leaders

Veronica Carmack, RN, BSN  
Director of Nursing  
Med/Surg Units

Jill Evans, RN, BSN  
Director of Nursing  
Surgical ICU

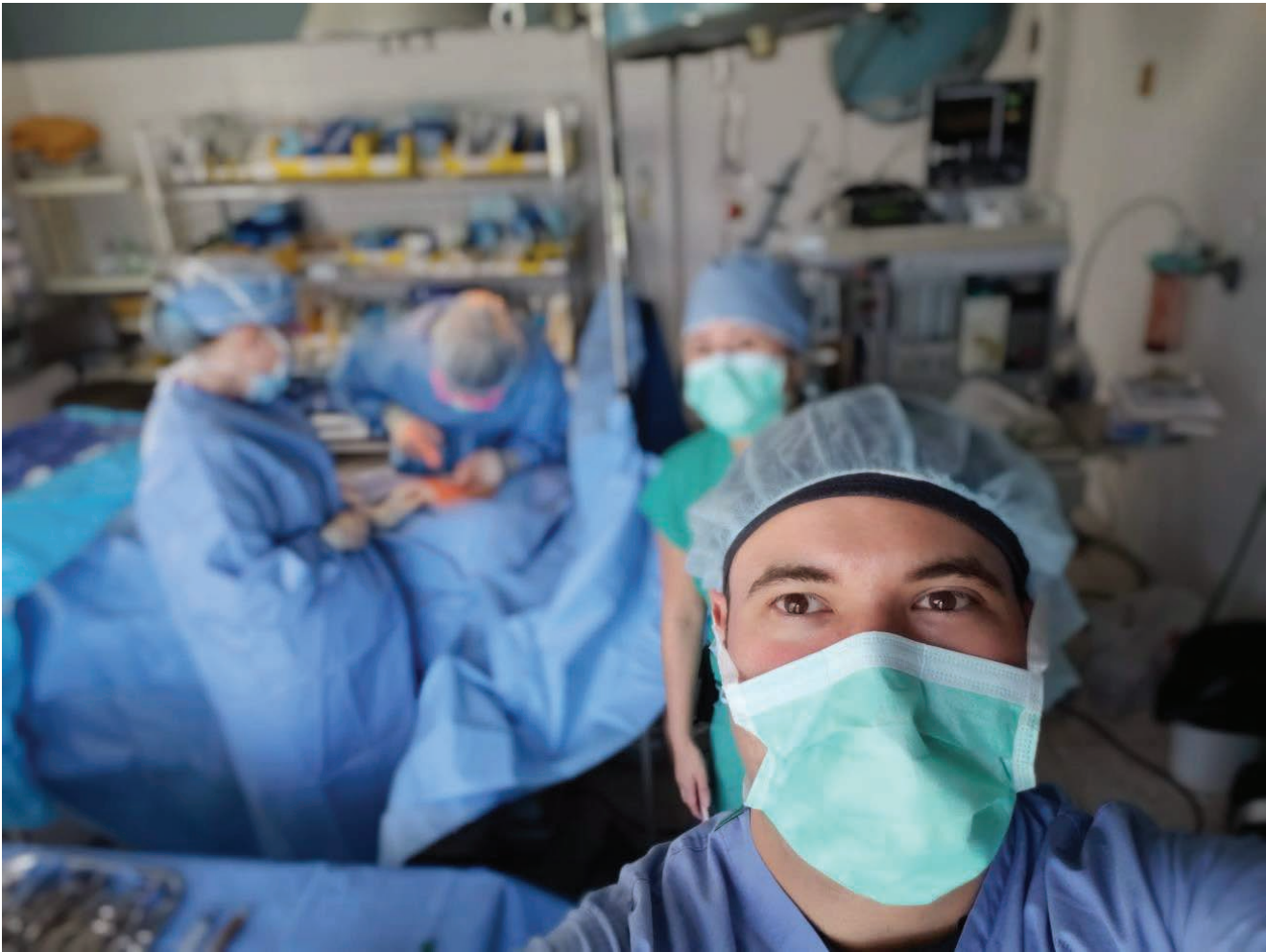


Staff of the Operating Rooms (top) and “1441” Ambulatory Clinics (above)



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



Surgical Specialties: *Cardiothoracic 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.



**Francisco Arabia, MD**  
Professor and Physician Executive

**Dr. Francisco Arabia** is a world-renowned leader in the field of advanced cardiac failure surgery, thoracic, cardiovascular and transplant surgery. He forms a key partnership with surgeons of **Phoenix Cardiac Surgery**, whose national and international areas of expertise likewise include structural heart disease and advanced cardiac failure surgery. Their research and pioneering contributions are significant. As part of an amazing Banner and University of Arizona systemwide initiative, the **Advanced Heart Failure and Mechanical Circulatory Support Program** will offer patients life-saving therapy via left ventricular assist device (LVAD) surgery, cardiac transplantation and total artificial hearts.



**Kenith Fang, MD**  
Associate Professor  
Chief, CT Surgery

Dr. Fang is recognized internationally in the field of transcatheter valve therapies (TAVR: Transcatheter Aortic Valve Replacement), surgery for atrial fibrillation, minimally invasive heart/lung surgeries, including The first robotic-assisted heart surgery in Arizona.



**Mark Tasset, MD**  
Assistant Professor

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.



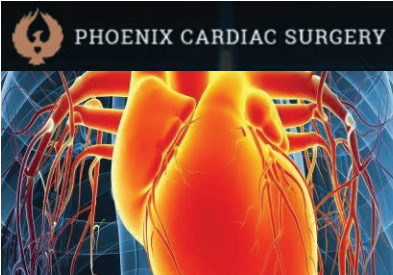
**Orazio Amabile, MD**  
Assistant Professor

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.



**Modesto Colón, MD**  
Assistant Professor

Dr. Colón performs the TAVR procedure and is expert in the entire spectrum of minimally invasive heart valve surgery. Additionally, he has special interest and expertise in the treatment of aortic aneurysms.



Visit Bibliography of Faculty Publications on page 48



Surgical Specialties: *Colorectal Surgery*



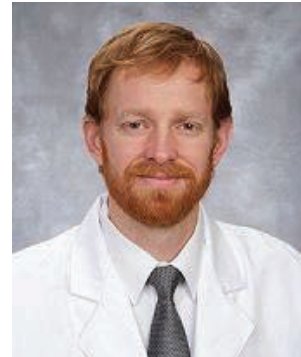
**Stephen Brown, MD**  
Assistant Professor  
Past Chief of Staff  
Banner – UMC Phoenix

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.



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

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



**Lynn Calcote, MD\***  
Assistant Professor

Dr. Calcote he 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.



**Jason Weiss, MD\***  
Faculty Physician

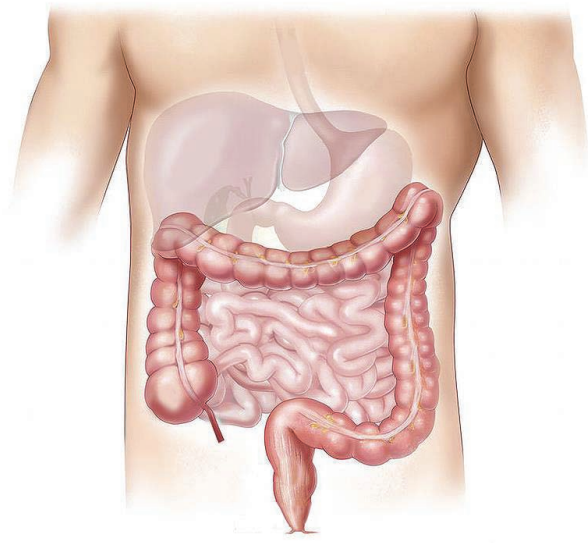
Dr. Weiss specializes in laparoendoscopic (minimally invasive) treatment of colon and rectal disorders. He has special interest in and passion for utilizing technology effectively to minimize perioperative pain in surgical patients.



**AFFILIATED**  
**COLON AND RECTAL SURGEONS, P.C.**  
Specializing in Colorectal Surgery and Colonoscopy  
<http://acrsurgeons.com>



**PINNACLE**  
**COLON AND RECTAL SURGEONS**  
Colon and Rectal Surgery and Colonoscopy  
<http://pcrsurgeons.com>



Surgical Specialties: *Endocrine Surgery*



**Mira Milas, MD, FACS**  
Professor of Surgery  
Chief, Division of 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 of 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.



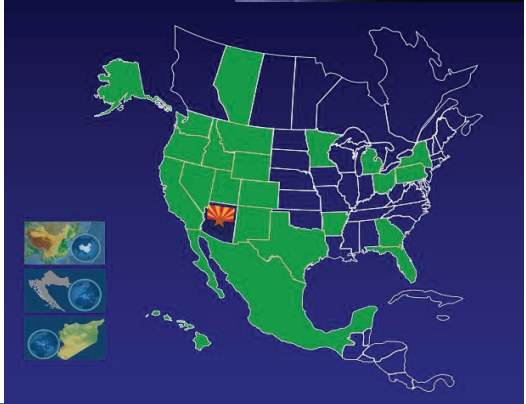
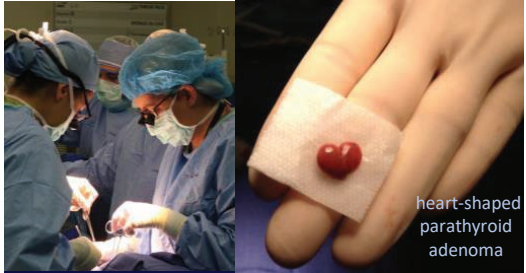
**Rose Metzger, MD, MPH, FACS**  
Associate Professor  
Director, Endocrine  
Surgery Education



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



**AAES 2019**



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

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)



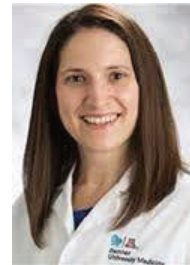
Surgical Specialties: *General Surgery, Advanced Laparoscopic and Robotic Surgery*  
*Banner – University Medical Center Phoenix*



**Richard Perry, MD**  
Professor of Surgery  
Chief, General Surgery



**Venkata "Bob" Evani, MD**  
Assistant Professor  
Physician Executive



**Jennifer Preston, MD**  
Assistant Professor  
Residency Program Director

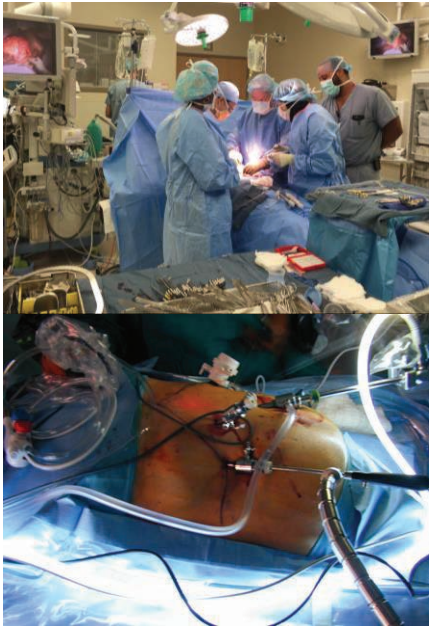


**Richard Harding, MD**  
Assistant Professor



**Jon King, MD**  
Assistant Professor

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 wide breadth of general surgery



of general surgery is addressed: abdominal solid organ disease (spleen, gallbladder, small bowel), simple and complex hernias, esophageal and gastric pathology, and breast diseases. The Division of General Surgery is proud to lead the Banner – UMC Phoenix campus and community in the use of robotics for the management of complex foregut disease, in addition to offering minimally invasive options for gastrectomy, small bowel resection, splenectomy and abdominal wall hernia repair.

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.



**Greg Rula, MD\***  
General Surgery  
Founding Partner  
Assistant Professor



**Susan Cortesi, MD**  
General and  
Breast Surgery



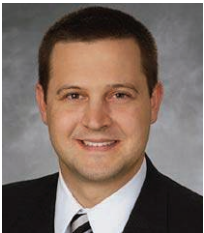
**Lawrence Damore II, MD**  
Advanced Laparoscopic  
and General Surgery  
Assistant Professor



**Daveshti Kumar, MD\***  
General Surgery



**Matthew Marini, MD\***  
General Surgery



**Kevin Masur, MD\***  
General Surgery  
Assistant Professor



**Mark Runfola, MD\***  
Surgical Oncology  
Assistant Professor



<https://www.advancedsurgery.com/>

Surgical Specialties: *General Surgery*  
*BANNER DESERT*



LAPAROSCOPIC SURGERY  
GENERAL SURGERY  
BREAST SURGERY  
ROBOTIC SURGERY  
SURGICAL ONCOLOGY  
COLORECTAL SURGERY  
PLASTIC SURGERY  
BARIATRIC SURGERY



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. Several alumni (\*) have become beloved teaching faculty and the resident rotation at Banner Desert is coveted for the opportunities of resident autonomy. To their patients, the surgery partners of Advanced Surgical Associates provide the highest quality surgical care in the areas of general surgery, bariatrics, breast surgery, colon and rectal surgery, surgical oncology and plastic surgery. This multi-specialty surgical practice offers the latest in surgical techniques, holds memberships in national professional organizations and delivers a remarkable standard of care.





## 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 PG2, 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 Connelly, MD\***  
**Nathaniel Eastman, MD\***  
**David Fredenberg, MD**  
**Bijiibaa Garrison, MD**  
**Jon Gerry, MD**  
**Ted Rosenzweig, MD\***  
**Mark Thorndike, MD\***  
**Frank Sacco, MD\***  
**Kevin Stange, MD\***  
**Fran Wilson, MD**



Displayed at Ted Stevens Anchorage International Airport

### 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!**



## 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**).

### GENERAL SURGERY

**Howard Bourdages, MD**  
**William Dolan, MD**  
**Bruce Potenza, MD**  
**J. Dudley Pyeatt, MD**  
**Eric Romanucci, MD**  
**Mark Runfola, MD\***  
**Ping Wang, MD**

### VASCULAR SURGERY

**Vivienne Halpern, MD**  
**Madhavi Meka, MD**  
**Ping Wang, MD**

### HEAD & NECK SURGERY

**Sheldon Brown, MD**  
**Ambuhakshan Dildeep, MD**  
**Wesley Lewis, MD**



### HIGHLIGHTS

- ✓ **Dedicated to Veterans**
- ✓ **Resident autonomy**
- ✓ **Key surgical cases**
- ✓ **VA is core GME partner with UA College of Medicine – Phoenix**
- ✓ **Faculty as leaders and role-models**
- ✓ **Dedicated participation in teaching conferences**



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.



Surgical Specialties: *Hepatobiliary and Transplant Surgery*

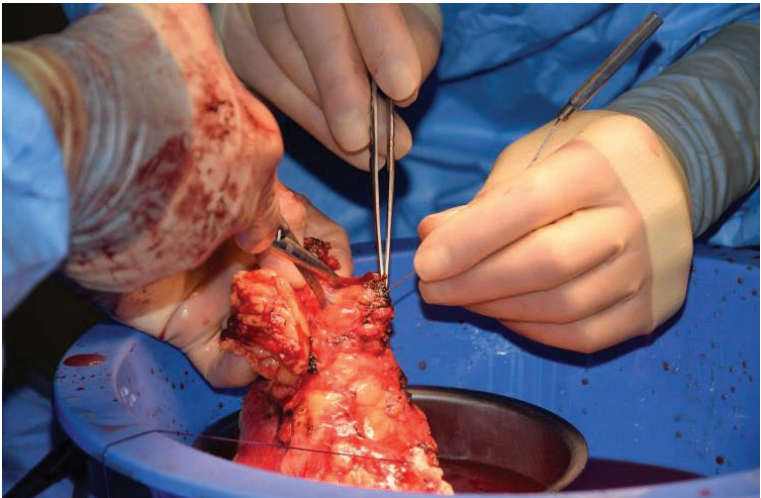
The Arizona Transplant Associates are specialists in hepatobiliary and pancreas surgery, including liver, kidney, pancreas and kidney-pancreas transplantation, and vascular surgery related to these fields. The practice was established in 1981 as one of the few hepatobiliary and pancreas surgery specialty 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.



From left: Drs. Brink, Chaly, Cashman, Koep, Van Der Werf, Fabrega

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.

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 100<sup>th</sup> 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.



From 2017-2018

1370

WHIPPLE PROCEDURES

1557

LIVER RESECTIONS

844

LIVER TRANSPLANTS

1158

PANCREAS AND BILE DUCT RESECTIONS

1763

KIDNEY TRANSPLANTS

62

KIDNEY-PANCREAS TRANSPLANTS

12

PANCREAS TRANSPLANTS

Arizona Transplant Associates

<https://aztransplant.com/>



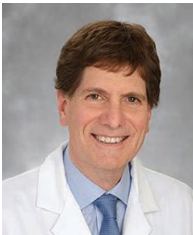
James Cashman, MD\*  
Associate Professor

Dr. Cashman has been in practice since 2000. He is the Director of Liver Transplantation for Banner – University Transplant Center. Originally from Texas, he received his medical degree from the University of Texas McGovern Medical School – Houston and is an alumnus of our General Surgery Residency Program. Dr. Cashman’s transplant fellowship was at the University of California San Diego Medical Center.



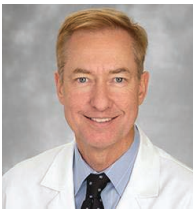
Jeffrey Brink, MD\*  
Assistant Professor

Dr. Brink joined the practice in July 2004. Originally from Nebraska, Dr. Brink received his medical degree from the University of Arizona College of Medicine – Tucson and is an alumnus of our General Surgery Residency Program. In addition, he completed a fellowship in liver, kidney and pancreas transplantation at the University of California San Diego Medical Center.



Alfredo Fabrega, MD  
Associate Professor

Alfredo Fabrega, MD, FACS has been a transplant surgeon for over 25 years. He is the Director of the Kidney and Pancreas Transplant Programs at Banner – UMC Phoenix. Dr. Fabrega is originally from Panama, where he received his medical degree in 1982. He completed General Surgery Residency at McGill University in Montreal, Canada and a Multiorgan Transplant Fellowship at the University of Minnesota.



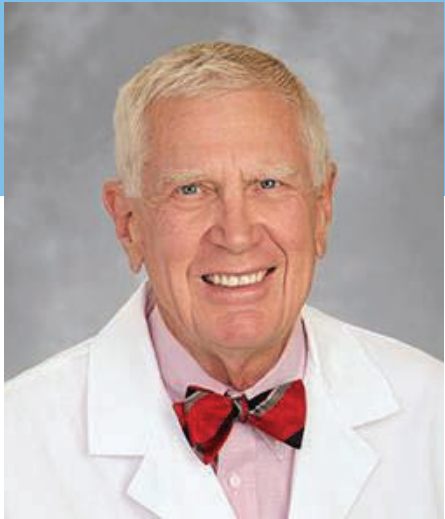
W. Van Der Werf, MD  
Associate Professor

Dr. Van Der Werf is currently Chief of Transplant Surgery and Surgical Director of Pediatric Kidney and Liver Transplant at Phoenix Children’s Hospital. He received his medical degree from the University of California San Francisco and completed General Surgery Residency at the University of Miami Jackson Memorial Hospital. His fellowships include research (Harvard Medical School) and transplant surgery (University of Wisconsin).



Thomas Chaly, MD  
Assistant Professor

Dr. Chaly joined the practice in 2017 from the University of Utah. Originally from New York, he received his medical degree and completed General Surgery Residency at Tulane University School of Medicine. In addition, he completed his fellowship in Multiorgan Transplant Surgery at Icahn School of Medicine at The Mount Sinai Hospital in New York City where he served as Chief Administrative Fellow.



Lawrence J. Koep, MD  
Professor of Surgery

Dr. Koep was in private practice from 1981-2016 and is legendary in the Phoenix and wider Arizona surgical communities for his talent and contributions to transplant surgery. Dr. Koep was previously at the University of Colorado as a Transplant and Vascular Surgeon as well as Associate Professor of Surgery from 1976-1981. He received his medical degree from Johns Hopkins School of Medicine in 1970. He completed his surgical internship and residency and a transplant fellowship at Johns Hopkins Medical Center in 1976. Upon his arrival to Phoenix, he revitalized the transplant program at Banner University Medical Center. He is beloved by all for his operative skills, devotion to his work and life families, and irreplaceable wit.





## Surgical Specialties: *Metabolic and Bariatric Surgery*

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**  
Professor of Surgery  
Ira A. Fulton Chair in Bariatric Surgery and Metabolic Disorders

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**  
Assistant Professor

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**  
Assistant Professor

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

## Surgical Specialties: *Oral and Maxillofacial Surgery (OMFS)*

The mission of 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.

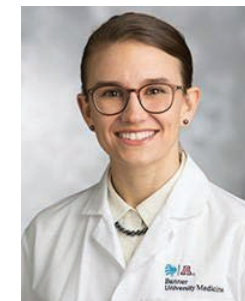
Our operative caseload and referral networks continue to grow. We are now regularly receiving consultations for patient care and treatment from all four corners of Arizona. Our OMFS division is now the main facial trauma care provider for patients at both Banner – University Medical Center Phoenix and 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.



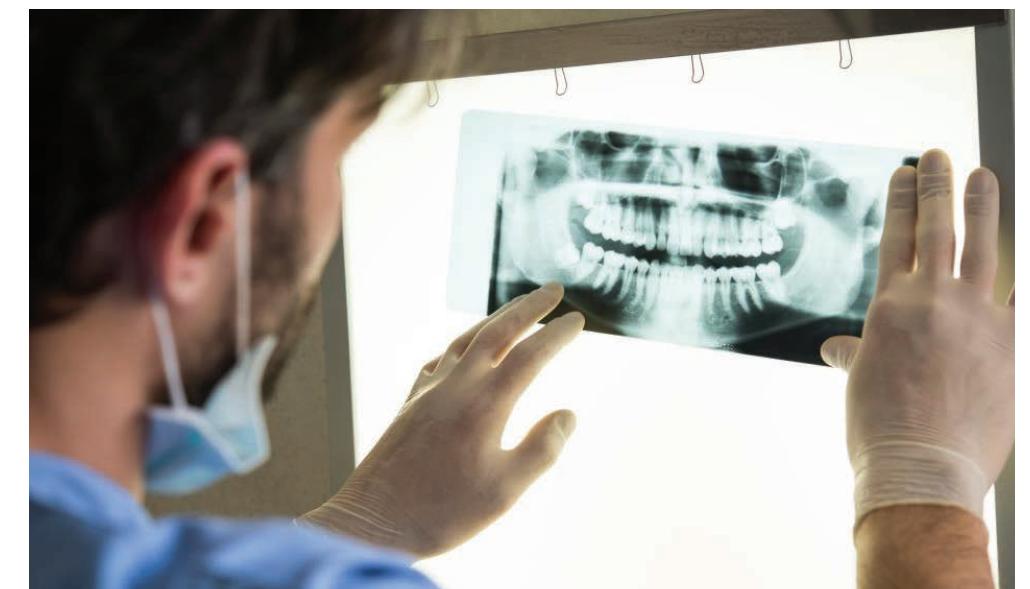
**Sudheer Surpure, MD, DDS, FACS**  
Assistant Professor  
Chief of OMFS



**Jack Buhrow, DDS**  
Associate Professor



**Savannah Weedman, MD, DDS, FACS**  
Assistant Professor

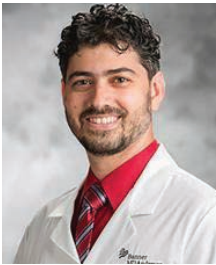




Surgical Specialties: *Otolaryngology/Head and Neck Surgery*



**Thomas Shellenberger, DMD, MD**

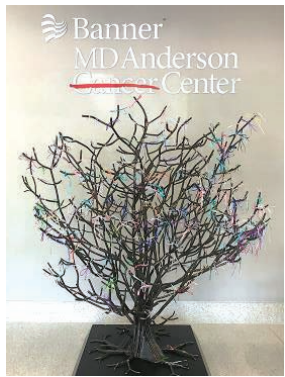


**Chafeek Tomeh, MD**

**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.

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*



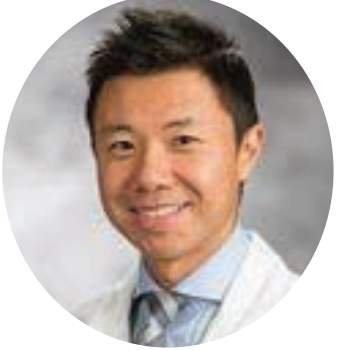
**Ravindra Vegunta, MD**  
Chief, Pediatric Surgery  
Professor of Surgery  
Professor of Child Health



**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

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.



<https://www.raisingarizonakids.com/2016/08/twin-to-twin-transfusion-syndrome-ttts-queen-creek-family-beats-odds/>

“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 Sabeeh**  
DO, FACS  
Plastic and Reconstructive  
Surgery



**David C. Yao**  
MD, FACS  
Plastic and Reconstructive  
Surgery



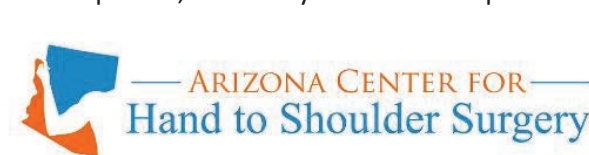
**Molly F. Walsh**  
DO  
Plastic and Reconstructive  
Surgery

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 **Maribel 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*



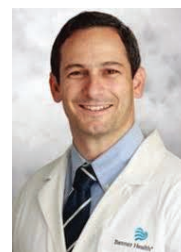
**Patrick Bosarge, MD, FACS, FCCM**  
Associate Professor  
Division Chief



**Paul Dabrowski, MD**  
Associate Professor  
Immediate Past Chief



**Corey Detlefs, MD**  
Assistant Professor  
Chief of Surgery



**Ara Feinstein, MD**  
Associate Professor  
Physician Executive



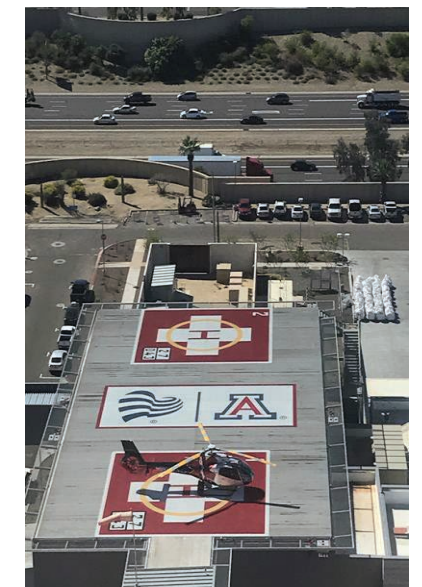
**Natasha Kerik, MD**  
Assistant Professor  
Clerkship Director

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 Kerik, 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.



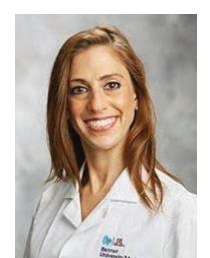
**Jon King, MD**  
Assistant Professor  
AZ Assoc. Surgeons  
PISR Alumni Chair



**Nirav Patel, MD**  
Associate Professor  
Physician Executive



**Amy Sisley, MD**  
Associate Professor  
Associate Residency  
Program Director



**Allison Tompeck, MD**  
Assistant Professor  
Medical Director, ICU





**Lindsay  
Bartholome, MD**



**Kristina  
Bermas, MD**



**John  
Kiser, MD**



**Jeffrey  
Perumean, MD**



**Jeffrey  
Salomone, MD**



**Julie  
Wynne, MD**

## Surgical Specialties: *Trauma Surgery* **BANNER DESERT**



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.



## Surgical Specialties: *Urology*



**Shane Daley, MD**  
Assistant Professor



**Scott Kalinowski, MD**  
Assistant Professor



**Adrian Feng, MD**  
Assistant Professor



**Bruce Kletscher, MD**  
Assistant Professor  
Chief of Surgery 2020-2022  
Banner – UMC Phoenix

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.



Surgical Specialties: *Vascular Surgery*



**Jeromy Brink, MD**  
Assistant Professor



**Brett Siegrist, MD**  
Assistant Professor



**Martin Zomaya, MD**  
Assistant Professor



**Winston Thomas, MD**  
Assistant Professor



Vascular Surgery  
Specialists  
<http://www.vascularsurgerydocs.com/index.html>



*The Cintora  
Visiting Professors  
in Vascular Surgery*

- 2019 Peter Glovicki, MD
- 2018 Carlos Timaran, MD
- 2017 Rodney White, MD
- 2016 Jean Panneton, MD
- 2015 Julie Freischlag, MD

*Vascular Surgery  
Fellowships*

- 2019 Stacey Klyn, DO  
UA-Tucson
- 2017 Grant Scott, MD  
West Virginia  
University
- 2017 Tiziano Tallarita, MD  
Mayo Clinic

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)*

Honoring Trailblazers of the Future



*Forty-two general surgery residents will trailblaze future contributions. They work hard for patients. They inspire. We honor them. The 2019 graduating chief residents in turn honored Dr. Greg Rula with the most prestigious recognition given annually.*



**Greg Rula, MD**  
Residency Program Alumnus  
Teacher Of The Year 2019





Mira Milas, MD, FACS  
Professor of Surgery  
Academic Vice Chair

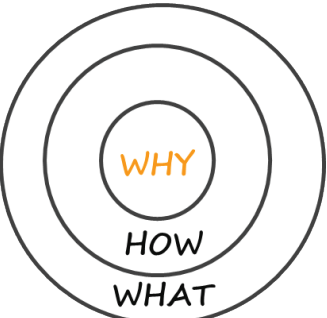
Academic medicine, academic surgery and academic medical centers (AMC) are terms that have been in use for so long that most physicians no longer pause to consider what they mean. The complexity and diversity of academic brands obscure this further: “once you have seen one AMC, you have seen one AMC.” 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 “quadruple aim” with the 4<sup>th</sup> 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.

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 **TEDTalk** by Simon Sinek on how great leaders inspire action.

<https://www.ted.com/talks>



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.

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?



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 KETOGENIC DIET ON TRAUMATIC BRAIN INJURY <i>Patrick Bosarge, MD</i>	CERVICAL SPINE CLEARANCE GUIDELINES IN BLUNT TRAUMA <i>Natasha Keric, MD</i>	EARLY FECAL MICROBIOTA TRANSPLANTATION FOR SEVERE C.DIFF <i>Allison Tompeck, MD</i>	3D PRINTING FOR MAXILLOFACIAL RECONSTRUCTIONS <i>Savannah Weedman, MD, DDS</i>	NARCOTIC VS NON-NARCOTIC PAIN MANAGEMENT AND BARIATRIC SURGERY OUTCOMES <i>Robin Blackstone, MD</i>
--	---	--	---	--

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 Harlan Stone Surgery Scholarship Day



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 15<sup>th</sup> 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 Phillip Burns, MD
- 2015 Martin Croce, MD
- 2016 Harlan Stone, MD
- 2017 Lawrence J. Koep, MD
- 2018 Anthony “Tony” Meyers, MD
- 2019 Richard Thirlby, MD



Eric Chickris, MSHA, Mira Milas, MD, Dan Butorovich, Dionisia Saner, Drew Bailey, Jason Chesley, Kaitlyn Norman-Powers, PhD, Jason Taylor, Julie Ladwig, Wendy Hylton, Jody Runge, MS, RN, Elena Young, Regina Montero MSN, RN, Mrinalini Kala PhD



Above: Kenneth Tidwell, Amy Sisley, MD, Milad Behbahaninia, MD, Richard Thirlby, MD, Jennifer Preston, MD, Eduardo Alcantar, MD; Left: Alexandra Lowery and Jennifer Mitchell facilitate annual faculty development

Academic Activities: New Knowledge, New Research, New Ways of Thinking



From left: Patricia Teran, Dr. Milas, Eric Chickris, Ken Tidwell

Led by **Eric Chickris, MSHA**, appointed in 2018 as the Director of Research for the Department of Surgery, academic engagement has skyrocketed. Currently, the department is engaged in at least 24 different studies with surgeons as the Principal Investigators. Assisting these scientific efforts are **Patricia Teran, BA** and **Krenare Nebija, BS** (Research Coordinators) and **Kenneth Tidwell, AB, CMP** (Research Data Manager).

**Grand Rounds** was restructured to address annually all themes highlighted with the intent to inspire and expand how we think about daily events in surgery.

BANNER AND THE UNIVERSITY OF ARIZONA, POWERED BY THEIR PARTNERSHIP, CAN AND WILL TRANSFORM MEDICINE FOR THE FUTURE.

INTEGRATING ADVANCED EDUCATION, INNOVATIVE MEDICAL DISCOVERY AND OUR SYSTEM-WIDE DATA, WE SEAMLESSLY DELIVER HIGH-VALUE, RELIABLE, COMPASSIONATE AND INDIVIDUALIZED CARE TO THE KEY COORDINATOR OF ALL THE HEALTHCARE NEEDS OF A MULTI-GENERATIONAL, EXTENDED FAMILY.

IN A DYNAMIC CULTURE OF CURIOSITY WE FOSTER THE SCIENTIFIC PASSION TO CREATE AND APPLY NEW KNOWLEDGE THAT RESOLVES CURRENT AND EVOLVING CHALLENGES IN HEALTHCARE.

BANNER-UNIVERSITY MEDICINE MISSION STATEMENT

GRAND ROUNDS – EXPERTS ON EXPERT TOPICS

LEADERSHIP, INNOVATION, TECH TRANSFER, EDUCATION, NASA, HISTORY, WELLNESS, SURGICAL SPECIALTY THEMES, SURGERY RESIDENCY, PROFESSIONALISM, FINANCES, CAREER DEVELOPMENT, GLOBAL HEALTH, ART & HUMANITIES IN SURGERY, QUALITY & PATIENT SAFETY, ETHICS, THE PATIENT

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

<b>Robin Blackstone, MD (BARIATRICS)</b> POST-OPERATIVE OUTCOMES IN BARIATRIC SURGERY PATIENTS TREATED WITH NARCOTIC VS NON-NARCOTIC PAIN MANAGEMENT THE ROLE OF LIVER FIBROSCAN 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	<b>Patrick Bosarge, MD (TRAUMA)</b> PHASE III EFFICACY AND SAFETY STUDY OF AB103 IN THE TREATMENT OF PATIENTS WITH NECROTIZING SOFT TISSUE INFECTIONS (ACCUTE) PHASE 2 STUDY OF RELTECIMOD VS PLACEBO IN PATIENTS WITH SEPSIS-ASSOCIATED ACUTE KIDNEY INJURY OPTIMAL MANAGEMENT OF TRAUMATIC ESOPHAGEAL PERFORATION KETOGENIC DIET FOLLOWING A TRAUMATIC BRAIN INJURY	<b>Mira Milas, MD (ENDOCRINE SURGERY)</b> BEACON ENDOCRINE REGISTRY THYROID CANCER CARE COLLABORATIVE (TCCC) FLUOBEAM LOCALIZATION AND VISUALIZATION OF PARATHYROID
<b>Jeffrey Brink, MD (TRANSPLANT)</b> UTILIZATION OF THE LEFT RENAL VEIN FOR SMV RECONSTRUCTION DURING WHIPPLE PROCEDURES IR STENTING FOR GASTRODUODENAL ARTERY LEAKS FOLLOWING WHIPPLE PROCEDURES	<b>Natasha Keric, MD (TRAUMA)</b> INFECTION AFTER PENETRATING BRAIN INJURY (MULTICENTER) TRAUMA INCIDENCE PATTERNS AFTER INTRODUCTION OF MEDICAL MARIJUANA CERVICAL SPINE CLEARANCE GUIDELINES IN BLUNT TRAUMA ACS/ASE MEDICAL STUDENT SIMULATION-BASED SURGICAL SKILLS CURRICULUM	<b>Jennifer Preston, MD (GENERAL SURGERY)</b> MINIMALLY INVASIVE SURGERY (MIS) PROGRAM VIEW BY DIRECTORS MIS PERCEPTION AMONG PROGRAMS WITH A FORMALIZED CURRICULUM MIS PERCEPTION AMONG MEDICAL STUDENTS IN SURGERY CLERKSHIP FORMAL LAPAROSCOPIC SURGICAL SIMULATION CURRICULUM IN GENERAL SURGERY RESIDENCY PROGRAM
		<b>Allison Tompeck, MD (CRITICAL CARE SURGERY)</b> EFFORT TRIAL: THE EFFECT OF PROTEIN DOSING IN CRITICAL ILLNESS DIVERTING LOOP ILEOSTOMY WITH COLONIC LAVAGE/EARLY FECAL MICROBIOTA TRANSPLANTATION FOR SEVERE CLOSTRIDIUM DIFFICILE INFECTION



Academic Surgery: *Quality and Patient Safety*



*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



*CCG's are Banner Health system-wide Clinical Consensus Groups focused on quality care.*



*Annual Quality & Safety Day with Resident High Value Idea Competition surgeon winner Ashley Casano, DO\* (2<sup>nd</sup> from right)*



**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



Academic Surgery: *Executive Surgical Careers*

*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).



**Venkata "Bob" Evani, MD**  
Physician Executive, BUMD  
Past Chief of Staff,  
Banner – UMC Phoenix  
General Surgeon



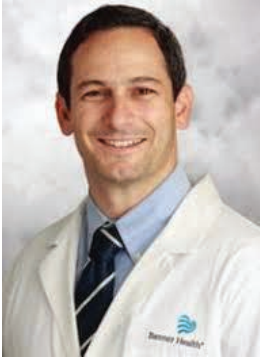
**Corey Detlefs, MD**  
Chief of Surgery  
Past Chief of Staff  
Banner Good Samaritan  
Banner – UMC Phoenix  
Trauma Surgeon



**Jeremy Goodman, MD, MBA**  
Chief Medical Officer  
Banner – UMC Phoenix  
Transplant Surgeon



**Robin Blackstone, MD**  
FACS, FASMBS  
Perioperative Medical  
Director  
Banner – UMC Phoenix  
Bariatric Surgeon



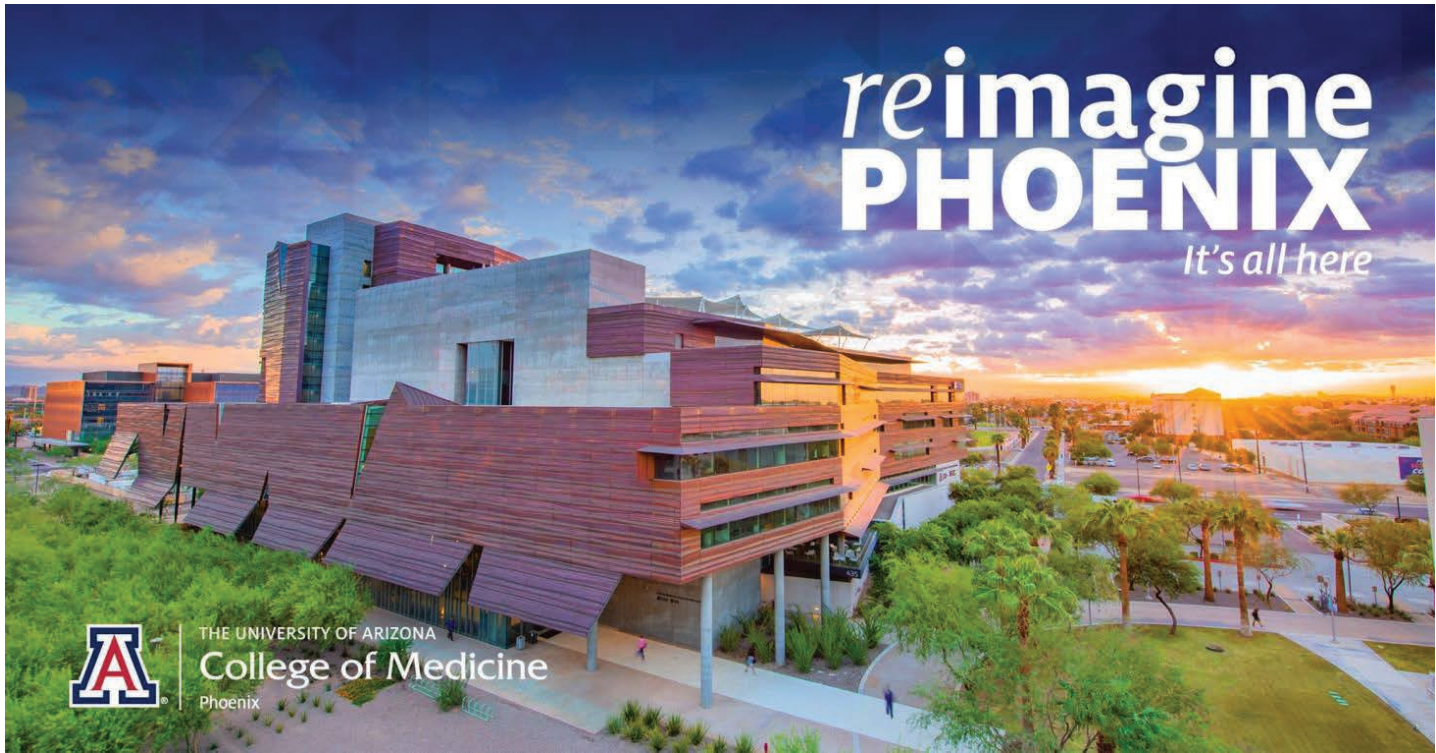
**Ara Feinstein, MD, MPH**  
Physician Executive  
BMG Specialties  
Trauma Surgeon



**Nirav Patel, MD**  
Director of Surgical  
and Procedural Services  
Banner Health  
Trauma Surgeon







**DR. BLACKSTONE** BECAUSE NO ONE ELSE WILL **DR. BOURDAGE** 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. BUHROW** HOW I CAN HELP PEOPLE TODAY **DR. CALCOTE** CONTRIBUTE TO THE WORLD, TO THE PATIENTS, TO MY FAMILY **DR. DABROWSKI** "THE GREATEST ACCOMPLISHMENT COMES FROM THE GREATEST OF COMMITMENTS"/**MARIAN DIAMOND PHD DR. DETLEFS** TO HELP PEOPLE **DR. DOLAN** 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 ICU 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/BECAUSE 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**



*What is yours?*



**THANK YOU**  
for being the heart of Banner.





The Answer from Our Surgery Residents

chofer Because I love being challenged to learn more and be better everyday, with the goal of passing on what I learn by teaching and caring for people. **Takis Bletsis** Being able to help patients understand what is happening to them and provide solutions to set them living their best lives again. **Colin Bohannon** Because we get the privilege and honor of directly intervening in our patients lives when they are at their sickest and most vulnerable. Because we get to watch our skills and competency grown each year. And it's legitimately fun on the good days. **Briana Britton** Because I find my purpose sitting at the bedside talking with my patient. Because I feel most alive when I'm in the OR and handed an instrument. Because I'm at my happiest when I'm in the resident room working alongside new friends. **Nicole Broden** I have to be here. I need to be here - there is no other way to describe it. It is a must, a calling. **Morgan Crigger** Because there is no better job in the world. **Steven Cross** I've been blessed with some truly amazing abilities and I believe it is so I can use them to serve others any way I can. **Kevin Johal** Because my mother taught me that you're supposed to leave the world a better place than you found it and that you're supposed to use the skills and abilities you were given to do that most effectively. Every patient that I can educate, comfort, make more functional or make happier allows me to do that and makes all the hardship worth it. **Maryam Khan** To play an integral role in our patient's lives to get them back to their loved ones. **Stacey Klyn** Because I love getting to be the person to bridge the gap between patients, their families understanding, conquering their disease processes. **Anna Lise Koenig** Helping fellow humans makes me feel like a better human. **Valeria Leon-Risemberg** Because it makes me happy to be able to help alleviate someone's pain and improve their lives. **Robert Maher** Because there is nothing better than helping someone on what might be the worst day in their entire life. The satisfaction of seeing your patients do well is worth it. **Jerome Manson** The satisfaction of making a tangible difference in people's lives. **Gregory Mozdyniewicz** Aristotle comments on virtue being one of the highest human goods and what is a better way to exercise this human good than in the practice and development of our knowledge and skills as physicians, for the benefit of others and those in need. **Taylor Norton** It's how I fulfill God's calling to love and serve others. **Yanyang** If I'm able to help, then I should. **Falak Patel** Utilize my life in such a way to make the lives of others better. **Ben Petersen** I love making people happy and encouraging them to see the world - or their situation - from a different perspective. I love the moment when someone not only learns, but truly understands something new for the first time. **Casey Rupp** The buck stops with surgery. We take ownership of our patients, their medical ailments and we get together to help heal patients. It's an honor and privilege to be a surgeon. **Lora Shirey** The satisfaction in seeing the immediate relief of patients after choles or appys. The pride of being the team that is called when everything else has been tried. The moment you realize a patient is giving you a great deal of trust in a very vulnerable moment. **Jessica Sloan** Because it's a chance to make a positive impact on patient lives, even during their most vulnerable states and it's the coolest feeling ever. **Caitlyn Thornley** To afford other people a chance to have a better quality of life. **Anon** To make Dr. Prescud. **Anon** I want to make people feel good about themselves and confident in their own skin. I want to make a difference in people's lives. **Anon** There's no greater feeling than seeing your patients face with pure gratitude and appreciation. Showing up to be there for your fellow residents, learning, growing, and struggle-bus riding. To make them finally proud of the person they made. **Alex Vaicius** Because the joy of making a positive change in patient's lives is worth more than the sacrifices I have to make and the personal difficulties I must face in order to reach that goal. **Alexandra Weston** To improve patient's quality of life. To make the world a more compassionate and caring place. **Kate Wood** Caring for others and holding their lives in our hands is the greatest responsibility and the ultimate honor. **Michael You** Because during their darkest times, people need to know that someone cares. **Angela Arreola** Because it rocks. Surgery you are uniquely able to impact significant change in someone's life. **Jake Bachofer** Because I love being challenged to learn more and be better everyday, with the goal of passing on what I learn by teaching and caring for people. **Takis Bletsis** Being able to help patients understand what is happening to them and provide solutions to set them living their best lives again. **Colin Bohannon** Because we get the privilege and honor of directly intervening in our patients lives when they are at their sickest and most vulnerable. Because we get to watch our skills and competency grown each year. And it's legitimately fun on the good days. **Briana Britton** Because I find my purpose sitting at the bedside talking with my patient. Because I feel most alive when I'm in the OR and handed an instrument. Because I'm at my happiest when I'm in the resident room working alongside new friends. **Nicole Broden** I have to be here. I need to help people - there is no other way to describe it. It is a must, a calling. **Morgan Crigger** Because there is no better job in the world. **Steven Cross** I've been blessed with some truly amazing abilities and I believe it is so I can use them to serve others any way I can. **Kevin Johal** Because my mother taught me that you're supposed to leave the world a better place than you found it and that you're supposed to use the skills and abilities you were given to do that most effectively. Every patient that I can educate, comfort, make more functional or make happier allows me to do that and makes all the hardship worth it. **Maryam Khan** To play an integral role in our patient's lives to get them back to their loved ones. **Stacey Klyn** Because I love getting to be the person to bridge the gap between patients, their families understanding, conquering their disease processes. **Anna Lise Koenig** Helping fellow humans makes me feel like a better human. **Valeria Leon-Risemberg** Because it makes me happy to be able to help alleviate someone's pain and improve their lives. **Robert Maher** Because there is nothing better than helping someone on what might be the worst day in their entire life. The satisfaction of seeing your patients do well is what might be the worst day in their entire life. **Jerome Manson** The satisfaction of making a tangible difference in people's lives. **Gregory Mozdyniewicz** Aristotle comments on virtue being one of the highest human goods and what is a better way to exercise this human good than in the practice and development of our knowledge and skills as physicians, for the benefit of others and those in need. **Taylor Norton** It's how I fulfill God's calling to love and serve others. **Yanyang** If I'm able to help, then I should. **Falak Patel** Utilize my life in such a way to make the lives of others better. **Ben Petersen** I love making people happy and encouraging them to see the world - or their situation - from a different perspective. I love the moment when someone not only learns, but truly understands something new for the first time. **Casey Rupp** The buck stops with surgery. We take ownership of our patients, their medical ailments and we get together to help heal patients. It's an honor and privilege to be a surgeon. **Lora Shirey** The satisfaction in seeing the immediate relief of patients after choles or appys. The pride of being the team that is called when everything else has been tried. The moment you realize a patient is giving you a great deal of trust in a very vulnerable moment. **Jessica Sloan** Because it's a chance to make a positive impact on patient lives, even during their most vulnerable states and it's the coolest feeling ever. **Caitlyn Thornley** To afford other people a chance to have a better quality of life. **Anon** To make Dr. Prescud. **Anon** I want to make people feel good about themselves and confident in their own skin. I want to make a difference in people's lives. **Anon** There's no greater feeling than seeing your patients face with pure gratitude and appreciation. Showing up to be there for your fellow residents, learning, growing, and struggle-bus riding. To make them finally proud of the person they made. **Alex Vaicius** Because the joy of making a positive change in patient's lives is worth more than the sacrifices I have to make and the personal difficulties I must face in order to reach that goal. **Alexandra Weston** To improve patient's quality of life. To make the world a more compassionate and caring place. **Kate Wood** Caring for others and holding their lives in our hands is the greatest responsibility and the ultimate honor. **Michael You** Because during their darkest times, people need to know that someone cares. **Angela Arreola** Because it rocks. Surgery you are uniquely able to impact significant change in someone's life. **Jake Bachofer** Because I love being challenged to learn more and be better everyday, with the goal of passing on what I learn by teaching and caring for people.

Community, Camaraderie and Commitment





# Academic Surgery: *Publications Selected from 2017-2019*

Faculty bibliography of career scholarly works includes approximately 700 peer-reviewed publications, 300 chapters, 20 books, 50 grants, 10 patents/IP inventions and 1200 presentations.

**Blackstone RP**, Pories WJ, Wolfe B, Bessler M, DeMaria EJ et al. Surgery and the Gordian Knot of Metabolic Syndrome. *Bulletin of the American College of Surgeons*, Chicago, IL. Jan 4, 2019

**Blackstone RP** Reversal of Roux-en-Y gastric bypass: largest single-institution experience. *Surg Obes Relat Dis* doi.org/10.1016/j.soard.2019.06.005. 2019

**Merz, AE, Blackstone RP**, Gagner M, Torres AJ, Himpens J, Higa KD et al. Duodenal switch in revisional bariatric surgery: conclusions from an expert consensus panel *Surg Obes Relat Dis*; doi.org/10.1016/j.soard.2019.03.009. 2019

**Blackstone R**, Clements RH, Morton JM, Nguyen N. Bariatric and Metabolic Surgery. In *Optimal Resources for Surgical Quality* Eds. Hoyt DB and Ko CY *American College of Surgeons*, Chicago, IL 2017

**Blackstone RP**, Editor. Bariatric Surgery Complications: The Medical Practitioners Essential Guide. Springer International Publishing AG Switzerland, 2017

Bunt JC, **Blackstone RP**, Thearle MS, Vinales KL, et al. Changes in Glycaemia, Insulin and Gut Hormone Responses to a Slowly Ingested Solid Low Carbohydrate Mixed Meal After Laparoscopic Gastric Bypass or Band Surgery. *International Journal of Obesity* 41:706-13, 2017

Stein DM, Kozar RA, Livingston DH, Luchette F, Adams SD, Agrawal V, Arbabi S, Ballou J, Barraco RD, Bernard AC, Biffi WL, **Bosarge PL**, et al. Geriatric traumatic brain injury – What we know and what we don’t. *J Trauma Acute Care Surg*. 85(4): 788-798. 2018

McDonald AA,Robinson, Bryce RH, Alarcon L, **Bosarge PL**, et al. Evaluation and Management of Traumatic Diaphragmatic Injuries: A Practice Management Guideline from the Eastern Association for the Surgery of Trauma. *J Trauma Acute Care Surg*. 85(1):198-207. 2018

Hu P, Uhlich R, White J, Kerby JD, **Bosarge P**. Sarcopenia measured using masseter area predicts early mortality following severe traumatic brain injury. *J Neurotrauma*. <https://doi.org/10.1089/neu.2017.5422>. 2018

Hu P, Uhlich RM, **Bosarge PL**. Prevention of Postoperative Infection. *Scientific American Surgery* [online]. Hamilton ON: Decker Intellectual Properties. 2017

Uhlich R, Hu P, **Bosarge PL**. Scientific Foundations. Nutritional Support. *Scientific American Surgery* [online]. Hamilton ON: Decker Intellectual Properties. 2017

Kobayashi L, Barmparas G, **Bosarge P**, Brown CV, et al. Novel Oral Anticoagulants and Trauma: The Results of a Prospective American Association for the Surgery of Trauma Multi-Institution Trial. *J Trauma Acute Care Surg*. 82(5):827-835. 2017

Hu PJ, Pittet JF, Kerby JD, **Bosarge PL**, Wagener BM. Acute Brain Trauma, Lung Injury and Pneumonia: More than Just Altered Mental Status and Decreased Airway Protection. *Am J Physiol Lung Cell Mol Physiol*. 313(1):L1-L15, 2017

Lazkani, M, Singh N, Patel N, Colon M, **Tasset M, Amabile O**, Morris M, **Fang HK**, Pershad A. An Updated Meta-Analysis of TAVR in Patients at Intermediate Risk for SAVR. *CardioVasc Revasc Med* 20(1):57-69. 2019

Mack, M, Leon M, Thourani V, Makkar R, and PARTNERS 3 Study Investigators (**Fang HK** ) et al. Transcatheter Aortic Valve Replacement with a Balloon Expandable Valve in Low-Risk Patients. *N Engl J Med* 380(18):1695-1705. 2019

Guerrero M and MITRAL Trial Collaborators (**Fang HK**) et al. 1-Year Outcomes of Transcatheter Mitral Valve Replacement in Patients with Severe Mitral Annular Calcification. *JACC* 71:1841-53. 2018

Lazkani M, Waggoner J, Morris M, Gellert G, **Fang K**, Pershad A. Double Trouble - Transapical Transcatheter Replacement of the Aortic and Mitral Valves in a Single Operation. *J Intervent Card* 30(6):E37. 2018

Morris M, Lazkani M, Stanish M, **Fang HK**, Pershad A. Software Modeling to Predict Paravalvular Leak Following Transcatheter Mitral Valve Replacement. *JACC CV Interventions* 11 (20): e167-169. 2018

Lazkani, M, Yerasi C, Prakash S, Pershad A, **Fang K**. Permanent Pacemaker Implantation and Paravalvular Leak Rates Following Sutureless Aortic Valve Operations. *J Cardiac Surg* 33(12):808-817. 2018

Reardon MJ and SURTAVI Study Investigators (**Fang HK**) et al. Surgical or Transcatheter Aortic Valve Replacement in Intermediate Risk Patients. *N Engl J Med* 376(14): 1321-1331. 2017

Verma DR, Pershad Y, Lazkani M, **Fang HK**, Morris M, Pershad A. Volume-Outcome Relationships for Transcatheter Aortic Valve Replacement - Risk adjusted and Volume Stratified Analysis of TAVR Outcomes. *Indian Heart J* 69(6): 700-706. 2017

Levine M, Jontz A, **Dabrowski GP**, Yee N, Claudius IA, Kreisler R, LoVecchio. Prevalence of marijuana use among trauma patients before and after medical marijuana became legal. *Journal of Medical Toxicology* 5: 53–107. 2019

Huls CK, **Detlefs C**. Trauma in pregnancy. *Seminars in Perinatology* 42: 13-18. 2018

Sein V, **Feinstein AJ**. Small Bowel. In *Pocket Journal Club: Essential Articles in General Surgery*. Ed. Butler KL McGraw-Hill, 2017.

Freeborn TL, Shinar R, Siegrist B, **Keric N, Patel N, Feinstein AJ**. I can’t find the left iliac artery. Abdominal stab wound leading to uncontrolled hemorrhage. *Trauma Cases and Reviews*. DOI: [10.23937/2469-5777/1510051](https://doi.org/10.23937/2469-5777/1510051). 2017

Leovic MP, Robbins HN, Starikov RS, **Foley MR** Learning the Essentials: Multidisciplinary Obstetric Critical Care Delivery. The Concept of the “Virtual” Intensive Care Unit. *Semin Perinatol* 42(1):3-8. 2018

Moroz L., Riley LE, D’Alton M., Brown HL, Davis AR, **Foley, M**, et al. Putting the “M” back in MFM: Addressing education about disparities in maternal outcomes and care. *American Journal of Obstetrics and Gynecology* 218(2). doi:10.1016/j.ajog. 2018

**Foley MR**, Strong TH, Garita TJ, Eds. *Obstetric Intensive Care Manual*, 5th Edition. McGraw Hill Publishers. New York, NY 2018

Scott S and **Foley MR** Organizing an Obstetrical Critical Care Unit: Care without Walls. In *Critical Care Obstetrics* (pp. 17-27). Eds. Phelan JP et al. Hoboken, NJ: Wiley Blackwell. 2018

**Keric, N**. *Trauma I: Initial Trauma Evaluation /Trauma II: Definitive Treatment*. ACS/ASE Medical Student Core Curriculum <https://www.facs.org/education/program/core-curriculum> 2018

**Khokhar M, Milas M**. Management of Nodal Disease in Thyroid Cancer. *Surg Clin North Am* 99(4):611-632. 2019

**Metzger R**. ATA Patient Education Resource Guide. <https://www.thyroid.org/patient-thyroid-information/what-is-thyroid-disease>. 2018

**Ogle S, Merz A, Parina R**, Alsayed M, **Milas M**. Ultrasound and the Evaluation of Pediatric Thyroid Malignancy: Current Recommendations for Diagnosis and Follow-up. *Journal of Ultrasound in Medicine* 37(10):2311-2324. 2018

Klyn S\*, **Milas M**. Surgical Trends in Ultrasound Applications for the Treatment of Thyroid Nodules, Thyroid Cancer, and Parathyroid Disease. In *Handbook of Thyroid and Parathyroid Ultrasound and Ultrasound-guided FNA*. Eds Duick, Levine, Lupo. Springer. New York, NY. 2018

Chockalingam V, Smith S, **Milas M**. Normal Neck Anatomy and Method of Performing Ultrasound Examination. In *Handbook of Thyroid and Parathyroid Ultrasound and Ultrasound-guided FNA*. Eds Duick, Levine, Lupo. Springer. New York, NY. 2018

Graff-Baker A, **Milas M**. Thyroid Nodules. In *Textbook of Complex General Surgical Oncology* Eds Morita et al. Access Surgery/McGraw-Hill Medical, Columbus, OH. 2018

Nikiforov Y, Abraham D, Baloch Z, Bernet V, Carty S, Hodak S, Hu S, Lackan D, Mandel S, **Milas M**, Nikiforova M, et al. Prevalence and Outcome of Thyroid Nodules Carrying DICER1 Mutations in Adult Patients: Study of 6,732 Thyroid Nodules Thyroid <https://doi.org/10.1089/thy.2018.29071.sc>. 2018

Taye A, Inabnet W and CESQIP group authors (**Milas M**) et al: Emergency Room Visits and Readmissions following Thyroidectomy: Initial Assessment from Collaborative Endocrine Surgery Improvement Program *JACS* 225(4): S1-S224. 2017

# Academic Surgery: *Publications*

**Milas M**, Mandel S, Langer J. Eds. *Advanced Thyroid and Parathyroid Ultrasound*. Springer. New York, NY. 2017

**Milas M**, Shindo M, Korngold E. The Use of Ultrasound in the Management of Thyroid Disorders. For Controversies in Thyroid Surgery. Eds. Hanks J and Inabnet B. Springer. New York, NY. 2017.

**Milas M**, Tollison D, Milas Z. Feature Illustration: Thyroid Nodule Margins and Extrathyroidal Extension and Invasion. In *Advanced Thyroid and Parathyroid Ultrasound*. Eds Milas, Mandel, Langer. Chapter 11, pp95-104. Springer. New York, NY. 2017

Chockalingam V, **Milas M**, Sturgeon C. Ultrasound Case Vignettes: Multigland Parathyroid Disease. In *Advanced Thyroid and Parathyroid Ultrasound*. Eds Milas, Mandel, Langer. Chapter 26, pp 289-298. Springer. New York, NY. 2017

**Milas M**. The Ultrasound Lexicon: Common Terminology for Thyroid and Parathyroid Sonography. In *Advanced Thyroid and Parathyroid Ultrasound*. Eds Milas, Mandel, Langer. Chapter 44, pp 445-450. Springer. New York, NY. 2017

**Parina R**, Drotar P, Westfall E, Bailey J, **Fang HK, Milas M**. Mediastinal Parathyroid Adenoma Resection Through Robotic Video-Assisted Thoracoscopy Utilizing Firefly Fluorescence. *VideoEndocrinology*, 4;4 <https://doi.org/10.1089/ve.2017.0107> 2017

**Merz AE, Preston JF**. Gastric Volvulus with Segmental Necrosis Treated with Wedge Resection and Gastrogastrostomy. *J Gastrointest Surg* 21 (12):2129-2131. 2017

Haisley K, **Preston JF**, Dolan JP, Diggs BS, Hunter JG. Twenty-year Trends in the Utilization of Heller Myotomy for Achalasia in the United States. *Am J Surg* 214 (2): p. 299-302. 2017

Myers M, Romney G, and **Surpure S**. *Malignancy*. In: *Anesthesia Considerations for the Oral and Maxillofacial Surgeon*. Mizukawa, M, McKenna, S and Vega, L. Quintessence Publishing. pp 352-360. 2017

**Tompeck AJ**, Gajidhar AR, Dowling M, Johnson AB, Barie PS, Winchell RJ, King D, Scalea TM, Britt LD, Narayan M. A Comprehensive Review of Topical Hemostatic Agents: The Good, The Bad, and the Novel. *J Trauma Acute Care Surg*. In press 2019

Taveras L, Imran JB, Cunningham HB, Clark AT, **Tompeck AJ**, Taarea R, Minshall CT, Eastman AL, Cripps MW. Trauma and Emergency General Surgery Patients Should Be Extubated with an Open Abdomen. *J Trauma Acute Care Surg*. 85(6):1043-1047.2018

**Tompeck A**, Narayan M: Laparoscopic Exploration for Free Air. In *Minimally Invasive Acute Care Surgery*, Eds. Khwaja K, Diaz JJ. New York, Springer Publishing Company, 2017

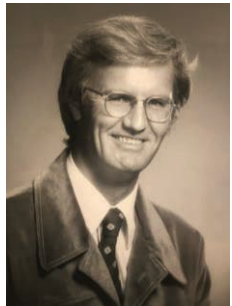
Pearl RH, Esparaz JR, Nierstedt RT, Elger BM, DiSomma NM, Leonardi MR, Macwan KS, Jeziorczak PM, Munaco AJ, **Vegunta RK**, Aprahamian CJ. Single-center protocol driven care in 150 patients with gastroschisis 1998-2017: collaboration improves results. *Pediatr Surg Int*. 34(11):1171-1176; 2018



Heritage and Legacy: Phoenix Integrated Surgical Residency



William Kleitsch, MD  
Founder  
1954



Robert Gilsdorf, MD, PhD  
Program Director  
1979-1982



Harlan Stone, MD  
Program Director  
1991-2003



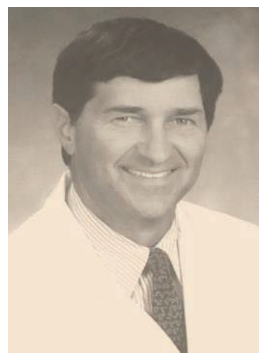
Jennifer Preston, MD  
Program Director  
2018-present



David James, MD  
Co-Founder  
1954



Merrill Brown, MD  
Program Director  
1982-1991

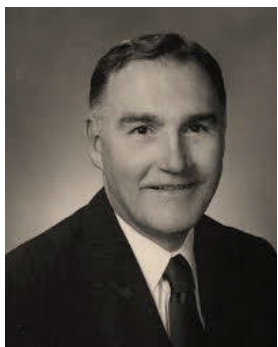


John Ferrara, MD  
Program Director  
2003-2010

**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 than 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.



George H. Mertz, MD  
Program Director  
1971-1979



Thomas Wachtel, MD  
Program Director  
1991



Steven B. Johnson, MD  
Program Director  
2010-2018

Inaugural Chair 2017-2018



Heritage and Legacy

2100

What mark will **you** leave?

2020

Phoenix population census metro area approximately 5,000,000

2019

Harlan Stone, MD, legendary surgeon and leader of Department of Surgery honored with Richard Perry, MD: “Always” motto (page 60)

2018

Videodocumentary “History of the Department of Surgery”

2017

University of Arizona College of Medicine – Phoenix accredited: first MD-granting school in Phoenix

2016

Good Samaritan Hospital renamed Banner – University Medical Center Phoenix

2015

Banner Health & University of Arizona partner to advance academic medicine & population health

2011

Celebrated 100<sup>th</sup> Anniversary and US News and World Report #1 ranking in AZ

1999

Banner Health born from merger of Samaritan & Lutheran Health

1991

First medical students arrive for clinical rotations in Phoenix coordinated by founding Dean Jacque Chadwick, MD

1989

Idea for Phoenix medical school is born and cultivated by Alan Leibowitz, MD

1982

First Liver Transplant in AZ performed at Good Samaritan Hospital inaugurating stature as the oldest liver transplant program in USA (Lawrence Koep, MD)

1980

Good Samaritan Hospital Iconic Tower

1969

First Organ Transplant (kidney) in AZ performed at Good Samaritan Hospital

1967

University of Arizona College of Medicine – Tucson accredited

1954

Phoenix Integrated Surgery Residency

1947

First Open Heart Surgery in AZ performed at Good Samaritan Hospital

1938

Lutheran Health System

1932

Phoenix census 50,000

1928

Samaritan Health System: Arizona Deaconess Hospital becomes Good Samaritan Hospital

1912

Arizona joins USA as 48<sup>th</sup> State

1903

Lulu Clifton, Methodist Deaconess, moves to Phoenix, founder of Good Samaritan

1868

Phoenix, Arizona founded by Jack Swilling who resurrects 1000-year-old Hohokam Indian irrigation canals to bring water

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.



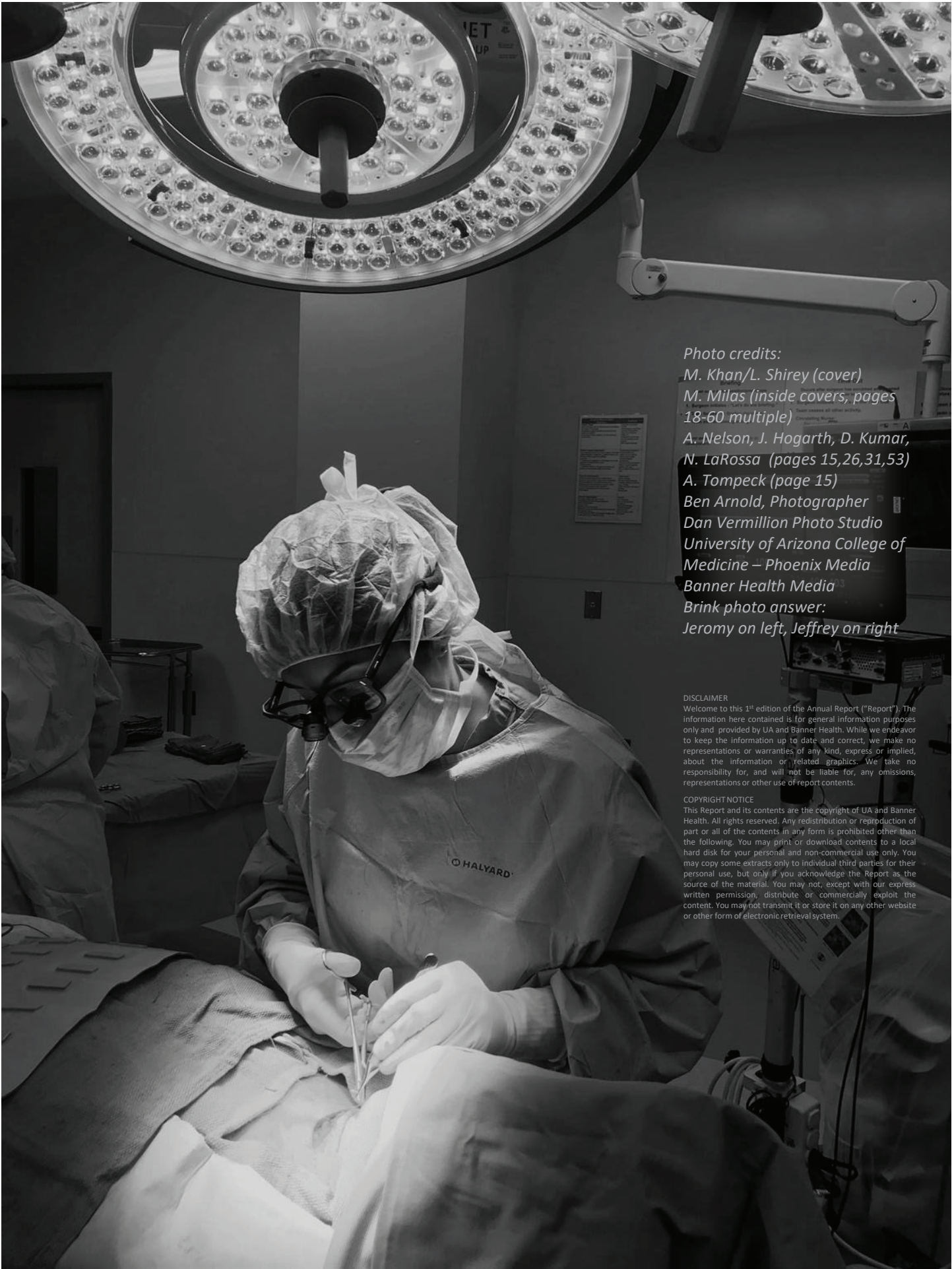


Photo credits:  
*M. Khan/L. Shirey (cover)*  
*M. Milas (inside covers, pages 18-60 multiple)*  
*A. Nelson, J. Hogarth, D. Kumar, N. LaRossa (pages 15,26,31,53)*  
*A. Tompeck (page 15)*  
*Ben Arnold, Photographer*  
*Dan Vermillion Photo Studio*  
*University of Arizona College of Medicine – Phoenix Media*  
*Banner Health Media*  
*Brink photo answer: Jeromy on left, Jeffrey on right*

**DISCLAIMER**  
 Welcome to this 1<sup>st</sup> 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.

**COPYRIGHT NOTICE**  
 This Report and its contents are the copyright of UA and Banner Health. All rights reserved. Any redistribution or reproduction of part or all of the contents in any form is prohibited other than the following. You may print or download contents to a local hard disk for your personal and non-commercial use only. You may copy some extracts only to individual third parties for their personal use, but only if you acknowledge the Report as the source of the material. You may not, except with our express written permission, distribute or commercially exploit the content. You may not transmit it or store it on any other website or other form of electronic retrieval system.



# 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



**Banner**  
**University Medicine**  
Medical Center Phoenix