The Women’s Institute
2016-2017 Annual Report
Endless Possibilities
New Patient Tower

Endless Possibilities
With extensive construction on our campus throughout 2016, we are excited about the opening of our new facilities which will allow us to continue to provide outstanding clinical care.

• New Emergency Department opens on 06/27/17
• Expanded Surgery Department opens first quarter 2018
• Patient tower opens third quarter 2018
• Main Tower Renovation – to be completed middle of 2019
• New main entrance/lobby to open 2020
• We are adding a total of 256 new private beds and converting our currently double occupancy rooms in the current tower to single occupancy rooms. The campus will be at a bed count of 768 when complete.
• Construction costs over $400 million

On April 25, 2017 Banner - University Medical Center Phoenix placed the two final steel beams in the construction of their new 13-story tower, marking an important milestone in the project.

Throughout the month of April, team members, patients, volunteers and others signed the last two beams for the event that drew more than 200 Banner team members. Division leadership, construction partners and members of the community were also on-hand for the ceremony.

“Banner-University Medicine Phoenix is honored and humbled for the investments being made on this campus,” said CEO Steve Narang, MD. “The topping off ceremony reminded us all of the 100-year history this proud medical center has enjoyed serving our most complex and vulnerable patients and their families.”

With the recent affiliation of the University of Arizona College of Medicine – Phoenix alone with the recent investments to support a new Emergency Department, the new inpatient tower and the new ambulatory clinics to support the Institutes, BUMCP is poised to be a national leader in the transformation of academic medicine.

“We believe that by fostering a culture of compassion, discovery and education, we will accelerate our ability to offer easy access to high value care for consumers seeking solutions to their complex health care needs,” Dr. Narang said.
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Introduction

As collaborative health care leaders, we strive to improve the quality of life for women across generations through comprehensive patient care, exceptional education and innovative research.

Innovation, integration and collaboration have provided the primary drive and focus for the Department of Obstetrics and Gynecology at Banner-University Medical Center Phoenix. The past 2 years marked the unprecedented official merger of Banner Health with the University Of Arizona. This innovative model brings the academic identity of the University of Arizona together with one of the largest non-profit healthcare delivery systems in America, Banner Health. A clear strength and advantage of our UA Department of Obstetrics and Gynecology is our distributive model of education. Our affiliated partners include Maricopa Integrated Health Systems (MIHS), St. Joseph’s Hospital and the Phoenix Veterans Administrative Hospital. The breadth and depth of clinical and research experiences provided through our distributive model of education is unprecedented.

The Women’s Institute at Banner-University Medical Center Phoenix has been transitioned to the previous Banner Health Corporate Center in order to expand services and facilitate the development of Integrated Practice Units (IPU) in women’s health. Through facilitated collaboration with specialties such as cardiovascular services, bariatrics, and endocrinology, the focus shifts from silo care to coordinated multi-specialty care teams; i.e. Virtual Obstetric ICU.

Our national symposiums in Critical Care in Obstetrics and Minimally Invasive Gynecologic Surgery have received international acclaim for innovation and integrated teaching utilizing on-line lectures, flipped classroom, and bedside simulation. In 2016, we have embraced the realms of virtual and augmented reality to compliment the learning styles of our millennial learners. New interactive educational innovations are currently underway to further enhance the education of our millennial learners. We are looking forward to a successful and fulfilling 2017.

As educators and caregivers, we must strive to capably manage and understand the true essence of “disease.”

To know what you do not know is best. To pretend to know when you do not know is disease.

Michael R. Foley, MD
Professor and Chair
Department of Obstetrics and Gynecology
University of Arizona College of Medicine Phoenix

To know what you do not know is best. To pretend to know when you do not know is disease.

– Lao Tsu
In 2017, we celebrate the two year anniversary of the merger between Banner Health and The University of Arizona COM Phoenix. This merger led to the change of our residency program from Banner Good Samaritan to the University of Arizona COM Phoenix OBGYN Residency Program. This has been an energizing transition which has made our previously outstanding residency program even stronger.

We have continued to pursue growth in academia, teaching and research. We attract the nation’s top medical school applicants and are once again thrilled with our Match this year. In addition to our 9 residents per year, we now have fellowships in Minimally Invasive Gynecologic Surgery and Maternal Fetal Medicine. Through our MIGS program we have recently achieved COEMIG certification. We are excited to see the growth in these two fellowship programs and the positive impact their educational opportunities and scholarly endeavors have on our residents. We are rolling out these fellowships in a very thoughtful manner, taking great care to preserve the resident experience and culture which has defined our residency program for decades. Finally, our structured and mentored research program is flourishing in both basic science and clinical investigations. Over the past 2 years, we have seen significant growth in the number of residents presenting their research on the national stage.

Our program has had continuous accreditation since 1951 and we have had no citations since our last full ACGME site visit in 2011. We are extremely proud of the diverse educational experience we provide and the outstanding physicians we have graduated and sent to practice or to continued fellowship education throughout the country.

Laurie Erickson, MD  
Residency Program Director  
Clinical Associate Professor  
Department of Obstetrics and Gynecology  
University of Arizona College of Medicine Phoenix
Dr. Foley received his medical degree in 1984 from Chicago Medical School. His internship and residency in obstetrics and gynecology were completed at The Ohio State University Hospital in Columbus, Ohio, in 1985 and 1988, respectively. His fellowship in Maternal-Fetal Medicine was also completed at The Ohio State University in 1990.

Dr. Foley has published numerous scientific articles and is a reviewer for several medical journals. He is a national and international lecturer as well as an award winning teacher and author. He has also served as a Board Examiner in the subspecialty of Maternal Fetal Medicine. He is considered a national authority on Critical Care Medicine in Obstetrics. Dr. Foley is Past President of the Society for Maternal Fetal Medicine-National (2008) and the recipient of the Society for Maternal Fetal Medicine Lifetime Achievement Award (2013).


Dr. Foley is a seventh-degree black belt and the founder of The Center for Humane Living, a 501c3 organization whose mission is “to inspire all people to live peaceful and compassionate lives.” He has been teaching students martial arts out of his home for the past 25 years and has written an award-winning book, The Art of Humane Living – Martial Arts as a Path to Peace, published in 2004. He also authored Ancient Wisdom for Life Fulfillment which was published in 2010.

He is married to Dr. Lisa Dado who is a pediatric anesthesiologist. They have three children, Bonnie (29), Molly (25) and Michael (23).
Dr. Erickson graduated from the University of Arizona College of Medicine Tucson and completed her residency at Banner Good Samaritan Medical Center in Phoenix in 1997. She then joined Maricopa OB/GYN Associates which is one of the major generalist teaching groups affiliated with our residency program. Dr. Erickson became an Assistant Director in 2007, Associate Program Director in 2009 and the full-time Program Director in 2014. She is a Clinical Associate Professor at the University of Arizona COM Phoenix. Dr. Erickson is a national leader, having served as an ACOG officer for the Arizona Section of District VIII and on the ACOG Consortium for Simulation. Dr. Erickson has completed the APGO Scholars and Leaders Program and the CREOG Program Directors School. She has presented posters at national meetings, including 2016 and 2017 ACOG and CREOG Annual meetings. Dr. Erickson is very active on institutional committees, most importantly Medical Executive Committee and the Student Progress Committee.

After graduating from the University of Colorado Medical School, Dr. Urig came to Phoenix where he completed his residency at Banner Good Samaritan in 1989. Following residency, he joined Maricopa OB/GYN Associates (MOGA) which is one of the primary teaching groups at Banner. He serves as President of Arizona OB/GYN Associates (AOA), the largest group of private practice OB/Gyn physicians in the state. Dr. Urig has been on the teaching faculty in this department for more than 20 years and is currently the Associate Chair and Associate Director of the residency program. Dr. Urig is an Associate Clinical Professor at the University of Arizona-College of Medicine, Phoenix Campus.

Dr. Urig serves on many hospital committees including serving as Chief of Service for many years. He is a co-lead on the Clinical Consensus Group for the Banner system and plays an integral role in assuring evidence-based medicine is used to optimize patient care throughout the system.
Dr Laura Mercer earned her bachelor degree from Northern Arizona University and her medical degree from the University of Arizona. She completed her specialty training in obstetrics and gynecology at Banner-University Medical Center Phoenix. She is a specialist in comprehensive obstetrics and gynecology with Maricopa OB/GYN Associates (MOGA) and is part of the core teaching faculty at Banner - University Medical Center Phoenix. Dr Mercer is a Clinical Assistant Professor at The University of Arizona College of Medicine—Phoenix and is the Medical Student Clerkship Director for students as they are introduced to the best specialty medicine has to offer.

Dr Mercer’s interests include contraception, adolescent health, minimally invasive surgery, collaborative care and medical student and resident education. She remains actively involved in the American Congress of Obstetricians and Gynecologists (ACOG), where she serves on several section, district and national boards and committees.

After attending Stanford University and receiving his Master and Bachelor of Science in Biology and Medical Microbiology with honors and distinction, Dr. Laband obtained his MD at The Mount Sinai School of Medicine in New York City. From there, he relocated to Phoenix where he has been part of the BUMCP family for over thirty years. In addition to serving on various committees, his duties include Clinical Assistant Professor, Associate Program Director, and Section Head, Gynecology Division.
Division Directors
Matthew P. Borst, MD   Gynecologic Oncology
Steven J. Laband, MD   Gynecology
C. Kevin Huls MD   Maternal-Fetal Medicine
Michael A. Urig, MD   Obstetrics
Drew V. Moffitt, MD   Reproductive Endocrinology-Infertility
Shazia Malik, MD   Female Pelvic Medicine and Reconstructive Surgery

Assistant Directors
David I. Glassman, DO
C. Kevin Huls, MD
Megan Cheney, MD
Jamal Mourad, DO
Candice C. Wood, MD
Debra Wickman, MD

Professor Emeritus
John H. Mattox, MD
Fellowships

Maternal Fetal Medicine Fellowship

The Maternal-Fetal Medicine (MFM) fellowship at Banner University Medical Center will be the first MFM subspecialty program for Banner, the city of Phoenix and the University of Arizona in Phoenix. The training program will complement and elevate the current residency training program at Banner University Medical Center. This is a 3-year specialized training program for the care of complicated pregnancies, research methodology, education and teaching. Fellows who are accepted into the program have already completed a residency in Obstetrics & Gynecology at an ACGME accredited program.

The mission for the fellowship is to provide clinical focus, stimulating research, develop master teachers, develop compassionate communicators, leadership in self and others, and to develop versatility and special interests for the fellow.

The fellowship will take 1 fellow per year and provide them with an additional 18-24 months of clinical experience plus 12-18 months of research. The fellow will rotate on Labor and Delivery, High-Risk antepartum, Adult ICU, Neonatal ICU, ultrasound imaging, outpatient MFM, genetics, pediatric cardiology, and elective time. The fellow will pursue additional clinical experience based on their interests, research, and career development. The fellow will also have a faculty research mentor who will help the fellow in developing hypothesis-based research questions, methodology to answer those questions, and to create projects to test those hypothesis.

During their time, the fellow will be exposed to and able to perform advanced procedures. These include amniocentesis, chorionic villous sampling, percutaneous umbilical cord sampling, and intrauterine transfusions. The fellow will also be exposed to fetal interventional procedures such as bladder shunt and chest tube placement, radio frequency cord ablation, and ex-utero intrapartum therapy (EXIT) procedures. Additional time will be spent within the Center of Excellence for Placenta Accreta taking care of abnormally invasive placentation with specialists from interventional radiology, trauma surgery, anesthesia, and gynecology-oncology. These specialized procedures will also enhance the fellow’s ability to collaborate with multiple specialties and engage change in a large health care system.

There are several unique aspects for the MFM fellowship program. The fellow will spend a 1 month elective creating and utilizing Ob simulation with the Banner Simulation Center in Mesa AZ. There are several national conferences that the fellow will participate in here in Phoenix including the Society of Maternal Fetal Medicine’s Obstetric Critical Care course in the fall and the Obstetrical Challenges Conference during the spring each year. The fellow will be encouraged to pursue an advanced degree within the University of Arizona in an area of focus. Opportunities include a Master’s of Science, Biostatistics, as well as the Masters of Public Health. Lastly the fellow will receive additional training, mentoring and coaching in leadership with Dr Foley and the Society of Maternal-Fetal Medicine’s Leadership Academy.

The Fellowship is now accredited with the ACGME and therefore is an extension of the Ob/Gyn residency. Fellows receive salary and benefits consistent with the PGY 5, 6, and 7 level for the program. There will be additional moonlighting opportunities available to the fellow with the approval of the fellowship director.

The core faculty include Drs. C Kevin Huls M.D., M.Sc., Jordan Perlow M.D., Roman Starikov M.D., Kisti Fuller M.D., Melissa Herbst-Kralovetz Ph.D. and Michael R Foley, M.D.

C. Kevin Huls, MD, MSc
Maternal Fetal Medicine Fellowship Director
Minimally Invasive Gynecologic Surgery Fellowship

The BUMCP MIGS Fellowship Program is a comprehensive 2-year program designed to advance the fellow’s surgical skills and confidence level in multiple areas of surgical gynecology. Our full academic integration with the University of Arizona, College of Medicine allows for ample research, academic and didactic opportunities to enhance the fellow’s learning and training experience.

Our comprehensive curriculum encompasses all facets of MIGS including: vaginal hysterectomy, hysteroscopic procedures, in-office endometrial ablation and tubal occlusion procedures, laparoscopy and robotics. Our diverse core faculty includes surgeons from several specialties allowing for exposure to a variety of different procedures and techniques to maximize the fellow’s surgical repertoire. During the two-year program the fellows rotate through the general gynecology service, general surgery, colorectal surgery, urology, female pelvic medicine reconstruction surgery and gyn oncology. At the end of their 2-year training program, fellows have the ability to function as independent gynecologic surgical consultants.

The fellows actively participate in the teaching of OB/GYN residents and medical students. The fellows present a Grand Rounds topic related to MIGS twice a year and conduct morning GYN Rounds with the residents.

Our unique, state-of-the-art Simulation Center offers our fellows a unique opportunity for surgical simulation training, allowing 24/7 access to hysteroscopic, laparoscopic and robotic skills set training. We are the only simulation program in the world that is accredited as an entire system. As such, each fellow is expected to present every year at the national level (AAGL) with the intention of submitting a manuscript for a peer review publication; i.e. Journal of Minimally Invasive Surgery, Green Journal, etc.

We also offer a Master of Science (MS) degree in CTS from the University of Arizona. The Clinical Translational Sciences (CTS) Graduate Program is designed to provide a strong foundation in clinical translational sciences for post-baccalaureate and postgraduate candidates.

The mission of the Master’s Program is to provide an avenue for the fellow to gain more experience in and exposure to the diverse areas of the clinical translational science and to offer a mechanism to obtain in-depth knowledge in a specific area of biomedical research. To this end, fellows participate in a specific laboratory or clinical research project working with a CTS faculty mentor.

The FMIGS administrative faculty are Dr. Jamal Mourad, Director; Nichole Mahnert, MD, Dr. Kelly Roy, Associate Director, and Dr. Javier Magrina, Consultant.

Jamal Mourad, DO, FACOG
Minimally Invasive Gynecologic Surgery Fellowship Director
Medical Student Program

Banner—University Medical Center Phoenix is a core clerkship site for The University of Arizona College of Medicine—Phoenix. Third year medical students spend 6 weeks working with our outstanding faculty and residents during their core clerkship in obstetrics and gynecology and fourth year students return for a variety of electives. We also host students from Midwestern University College of Osteopathic Medicine and visiting students from medical schools across the country.

The University of Arizona College of Medicine—Phoenix continues in its successful path through LCME accreditation as an independent allopathic medical school. Ongoing innovation of a new curriculum places an emphasis on adult learning theory with an integration of a multi-disciplinary, team-based care in an evolving health care system. No longer do students sit through “lectures”... instead, they are engaged in hands-on problem solving based on real and simulated patient experiences. Through a flipped-classroom model, learners do their reading and preparation before didactic sessions and have access to multimedia resources for self-study. When brought together in teams with faculty mentors, they participate in case-based care and hands-on simulation of obstetric and gynecologic clinical experiences. This careful and novel approach augments a robust exposure to the field of obstetrics and gynecology through participation in patient care at Banner UMC.
Residency Program

The University of Arizona College of Medicine – Phoenix Obstetrics and Gynecology Residency program is located on the campus of Banner – University Medical Center in Phoenix, a nationally recognized academic teaching hospital in Arizona that offers the highest level of care to the most critically ill patients. Located in the heart of metro Phoenix, more than 300 new physicians are trained here annually.

Established in 1951 and previously known as Banner Good Samaritan, our Obstetrics and Gynecology Residency program helps new physicians make the transition from student to practitioner by providing the support they need to develop clinical competence, relationship-building with patients and colleagues, and methods for lifelong learning.

Our esteemed faculty is led by Department Chair Michael R. Foley, MD, a lifetime achievement award recipient by the Society for Maternal-Fetal Medicine, and our Program Director Laurie Erickson, MD. The faculty includes Perinatologists, Gynecologic Oncologists, Urogynecologists and Reproductive Endocrinologists, in addition to our experienced Generalist staff.

Our Program
- Now accepting 9 residents each year
- Night call at only one hospital
- No night float; specialized night rotation for interns
- Traditional call schedule years two through four

Teaching & Education
- Clinical clerkship site for University of Arizona
- State-of-the-art Simulation Education and Training at SimET Center with DaVinci trainer at Banner – University Medical Center Phoenix
- Dual-console DaVinci robots in operating rooms
- Daily protected educational lectures with catered lunch
- Consistently at or above 50th percentile nationally for operative numbers

Benefits
- Salary stratified by year of experience: $54,075 – $62,006
- Daily catered lunch with additional meal card allowance
- Three weeks of paid vacation annually, with additional days off for holidays
- Free health insurance for resident and family
- Specialized OB/GYN resident call rooms adjacent to L&D
- Annual resident retreat
- Moonlighting permitted for qualified upper-level residents
- Third-year elective and fourth-year selective rotations

Patient Population
- 5,500 deliveries per year
- Central tertiary care center with large referral area
- Work side-by-side with other residency programs including: General Surgery, Orthopedic Surgery, Psychiatry, Internal Medicine, Med/Peds, Family Medicine, Emergency Medicine and fellows across many specialties

Research
- Supported research by faculty mentors in field of resident’s choice
- Faculty assistance with statistical analysis
- Funding provided for traveling for presentations

Beyond Residency
- Demonstrated success in fellowship match across all sub-specialties
- About 50 percent of graduates stay in Arizona to practice
Management of the critically-ill pregnant patient presents a clinical dilemma in which there is sparse objective data to determine the optimal setting for provision of high-quality care to these patients. This clinical scenario will continue to present a challenge for providers as the chronic illness and comorbid conditions continue to become more commonly encountered in the obstetric population. Various care models exist across a broad spectrum of facilities that are characterized by differing levels of resources; however, no studies have identified which model provides the highest level of care and patient safety while maintaining a reasonable degree of cost-effectiveness. The healthcare needs of the critically-ill obstetric patient calls for clinicians to move beyond the traditional definition of the “ICU” and develop a well-rounded, quickly-responsive, and communicative interdisciplinary team that can provide high-quality, unique, and versatile care that best meets the needs of each particular patient. We propose a model where a “Virtual ICU” team composed of pre-selected specialists from multiple disciplines (maternal-fetal medicine, neonatology, obstetric anesthesiology, cardiology, pulmonology, etc.) participate in the provision of individualized, pre-contemplated care that is readily adapted to the specific patient’s clinical needs, regardless of setting. With this team-based approach, an environment of trust and familiarity is fostered amongst team members and well thought-out patient care plans are developed through routine “pre-brief” discussions regarding individual clinical care for parturients anticipated to required critical care services. Incorporating debriefings between team members following these intricate cases will allow for the continued evolution of care as the medical needs of this patient population change as well.

**Key Words:** critical care, care model, intensive care unit, multidisciplinary care, Virtual ICU.
Banner Simulation Centers

Banner Health runs one of the largest multidisciplinary simulation education programs in the United States to train physicians, nurses, allied health care professionals and emergency responders to treat a range of patients, from infants to adults. We are transforming health care delivery through simulation, learning and research across our three locations in Mesa and Phoenix in Arizona and Loveland in Colorado.

At Banner’s state-of-the-art simulation centers, we use mannequins, simulators and virtual-reality programs to train the next generation of health care professionals in an environment that mirrors real-life medical situations. Hundreds of medical students, residents, physicians and nursing staff are educated using simulations each year.

Our cutting-edge medical mannequins breathe, blink, code, seize, bleed, speak and even give birth, all with programmable complications to simulate potential medical conditions. Participants can practice their response to critical medical emergencies and hone their skills in commonly performed procedures such as inserting chest tubes or central lines.

With this training, health care providers can acquire the skills needed to deliver the highest quality of patient care.

Key Features Offered

- Laparoscopic Hysteroscopic and FLA trainers
- Ultrasound trainer
- ICU/PCU unit
- Birthing suite
- Operating unit with da Vinci robot

Physician Classes/Tests Offered

- Fundamentals of Laparoscopic Surgery (FLS) testing
- Central Venous Catheter (CVC) insertion
- Basic airway management course

Simulation Medical Center Staff

Karen Josey, M.Ed., BSN, CHSE
Sr. Director of Simulation – Banner Health

Roxann R. Edelman, M.ED., RNC-OB
RN Director – Clinical Education

Carrie Brandon, MD, RN
Simulation Sr. Manager

Linda Tinker, MSN, RN, CHSE
Simulation Sr. Manager

Terry Chavez, MSN
Simulation Sr. Manager
Our Specialty Programs

Cameroon–Arizona Partnership
The World Health Organization estimates that about 830 women die each day from preventable causes related to pregnancy and childbirth. Nearly 99 percent of all maternal deaths occur in developing countries. Two thirds of these occur in sub-Saharan Africa.

The University of Arizona has partnered with the University of Buea in Cameroon to help address this maternal health disparity. Utilizing a model that has proven successful through the 1000+ OBGYN Project, UA and UBuea faculty have come together to start the first English-speaking OBGYN residency program in Cameroon. Collaborative meetings in both countries over several years have culminated with the signing of the Memorandum of Understanding in 2015 and the approval and support from the Cameroonian Ministry of Higher Education and Ministry of Health in 2016.

The first class of Cameroon residents at the University of Buea will begin in fall 2017. In preparation, the Cameroon-Arizona Partnership has been active in securing resources – financial, educational, people, and material. An alliance with Project CURE has helped secure donated medical equipment of supplies and ongoing efforts with the community in Arizona continues to help bolster other resources. For more information, please see cameroonarizonapartnership.org and 1000obgyn.org.
Female Pelvic Medicine and Reconstructive Surgery

The Division of Female Pelvic Medicine and Reconstructive Surgery (Urogynecology) at Banner – University Medical Center Phoenix consists of specialty-trained physicians who are experts in the care of women with advanced pelvic floor disorders such as:

- Moderate to severe pelvic organ prolapse
- Genitourinary fistulas
- Bladder pain syndrome
- Defecatory dysfunction
- Voiding dysfunction
- Urinary incontinence
- Fecal incontinence

Patients have the opportunity to have a consultation to discuss both conservative and surgical management options for these conditions.

The following tests and treatments are available to patients at Banner Good Samaritan:

- Advanced pelvic floor therapy
- Minimally invasive surgery
- Complex surgical revisions
- Endoanal ultrasound
- Anal manometry
- Pelvic ultrasound
- Cystoscopy
- Urodynamic testing
Gynecology

The Division of Gynecology at Banner – University Medical Center Phoenix involves outpatient and inpatient management encompassing the spectrum of Women’s Health issues. Management opportunities include:

- **Well Woman Visits**
- **Menstrual abnormalities**
  - Anovulation and infrequent periods
  - Heavy periods
    - Hormonal treatment
    - In Office Endometrial ablation
- **Basic infertility evaluation and treatment**
- **Abnormal pap smears and cervical dysplasia**
  - Colposcopy
  - Chemical ablative and excisional procedures
- **Contraception and Family Planning**
  - Hormonal Contraception
    - Birth Control Pills
    - Nuvaring
    - Depoprovera
    - Birth control patch
  - Long Acting Reversible Contraception
    - Mirena IUD
    - Copper IUD
    - Hormonal implants
  - Permanent Contraception
    - Laparoscopic + hysteroscopic tubal sterilization procedures.
- **Polycystic Ovarian Syndrome**
- **Pelvic pain**
- **Endometriosis**
- **Menopause management**
- **Postmenopausal bleeding**
- **Gynecological Ultrasound**
- **Ovarian Cysts**

Uterine fibroids: medical management + surgical management including:

- Hysteroscopic resection
- Fibroid removal (myomectomy)
- Hysterectomy
- Endometrial ablation

Laparoscopy for diagnosis and treatment of various conditions
  - Vaginal
  - Laparoscopic
  - Robotic
  - Mini laparotomy surgical techniques

Ongoing development involves Integrative Gynecology and a surgical gynecology consensus group to determine best surgical route for each individual patient. We work closely other specialists when a patient’s pathology requires expertise outside of our scope.
The Division of Gynecologic Oncology at Banner – University Medical Center Phoenix is dedicated to the diagnosis and treatment of women with reproductive tract malignancies, pre-malignancies or suspected malignancies. These include:

- Ovarian and fallopian tube cancer
- Vulvar cancer
- Vaginal cancer
- Uterine cancer
- Cervical cancer
- Gestational trophoblastic disease

Our mission is to provide comprehensive and multidisciplinary care resulting in the most up-to-date and innovative treatment for these conditions. Special attention is made to provide a caring and supportive environment through a dedicated unit with experts including board-certified physicians, specialty nurses, oncology pharmacists, case managers and dietitians.

Our gynecologic oncology services include:

- Inpatient surgery
- Outpatient surgery
- Advanced minimally invasive surgery (including robotic assisted surgery)
- Chemotherapy
- Participation in National Clinical Trials Research
- Coordinated care with Radiation Oncology services
- Integrated care with Palliative Care services
- Cancer genetics program with counseling and testing
The Division of Maternal-Fetal Medicine (MFM) at Banner – University Medical Center Phoenix is dedicated to providing the utmost in compassionate state-of-the-art medical care to women with high-risk pregnancies.

We treat a wide variety of maternal and fetal conditions at any gestational age which increase risks for adverse outcomes. These include:

- High-order multiples
- Placenta accreta
- Placenta previa
- Pre-term labor
- Premature rupture of membranes
- Morbid obesity
- Fetal anomalies (such as omphalocele, neural tube defects and cardiac defects)

We accept transports of patients by fixed-wing aircraft or via helicopter from across Arizona to receive their care at Banner-University Medical Center Phoenix.

A team of Maternal-Fetal Medicine and Neonatal specialists are available 24/7 to provide bedside care. We work closely in caring for critically-ill pregnant patients with a readily available, highly specialized diverse team of:

- Intensivists
- Cardiologists
- Pulmonologist
- Trauma surgeons
- Gynecologic oncologists
- Urologists
- Interventional radiologists
Obstetrics

Our inpatient Obstetrical unit provides 28 Labor and Delivery Rooms (LDR’s). Each LDR is designed for the spectrum of natural, unmedicated labor in family oriented environment, to the Hi-risk ICU level type of complicated labor and delivery. Over 5000 deliveries are performed each year in our unit. A supportive environment is provided for our patients who desire minimal intervention, active movement during labor, minimal monitoring, and the option for labor tubs. Skin-to-skin bonding is emphasized in all deliveries, even cesarean section, immediately after delivery, with “the golden hour” being considered very important for initiation of bonding and breastfeeding. Midwifery has been instituted and plans are in place for growth of midwifery practice in the department. There are 4 obstetrical Surgical Suites on the unit within a minute of the LDR, including a multiples Surgical Suite with a connecting room for multiples neonatal immediate care.

Evidence-based protocols have been put in place for outpatient cervical ripening prior to admission for induction of labor. This has helped to decrease the cesarean section rate, postpartum hemorrhage, and shoulder dystocia and to reduce costs and improve safety and outcomes for mother and baby. The development of an Obstetrical Rapid Response team comprised of nurses, resident physicians, anesthesiologists, obstetricians, and maternal fetal medicine specialists has allowed us to respond to emergencies anywhere in the hospital. Twenty-four hour in-house anesthesia, maternal fetal specialists, neonatal specialists, and obstetricians allows us to respond to all of the needs of our patients at all times. Indicators such as elective delivery before 39 weeks, length of stay, readmission, incidence of postpartum hemorrhage, percentage of patients threatening delivery before 34 weeks receiving steroids, and breast feeding success are just some of the indicators that are evaluated on a regular basis to maximize safety, insure excellent outcomes, and provide better quality care.

Placenta Accreta

With a commitment to excellence in the care of patients with abnormal placentation, Banner – University Medical Center Phoenix has developed a multidisciplinary approach utilizing a team of highly skills specialists. Our comprehensive care management program addresses patient and family needs throughout the pregnancy, at the time of delivery, and postpartum.

An individualized plan of care is created for each mom-to-be by a team of experts in Maternal-Fetal Medicine, Trauma Surgery, Gynecological Oncology, Anesthesiology, Interventional Radiology, Urology, Neonatology, Nursing, Social Work and Case Management among others. Additionally, the hospital’s laboratory and blood bank are readily mobilized so the patient benefits from having a coordinated approach to care.

Our experienced doctors and nurses are prepared to care for these highly complex pregnancies and deliveries, and for any emergencies that may arise. Patients have the knowledge and peace of mind that Banner – University Medical Center Phoenix has the resources to promptly assemble highly skilled specialists from multiple disciplines should the need arise.
**Obstetric Anesthesia**

The division of Obstetric Anesthesiology at Banner – University Medical Center Phoenix consists of Board Certified Anesthesiologists who head a team of highly trained medical professionals that bring state-of-the-art anesthesia care to all of our obstetric patients. As part of our commitment to the highest level of both high-risk and routine obstetric care, we staff the labor and delivery floor 24/7 and 365 days a year.

We are the providers of Obstetric Anesthesiology and elective training for the Obstetric/Gynecology resident training program. We have designed and implemented a Core Curriculum which combines didactic teaching with supervised hands-on experience.

We are experienced in treating the highest risk, critically ill patients at Banner – University Medical Center Phoenix, and are well versed in life saving fluid resuscitation, invasive monitoring, advanced airway management as well as complex pain management problems.

The Department of Obstetric Anesthesia works closely and collaboratively with our “virtual” obstetric intensive care team, our simulation department and Banner Health's Women’s Institute. Team members from Obstetric Anesthesiology regularly participate in multi-disciplinary obstetric board checkout rounds to provide insight, teaching and up-to-date consultations.

**Integrative Medicine Program**

The Integrative Medicine in Residency Program is a 200-hour competency-based, online curriculum in integrative medicine, designed for incorporation into primary care residency education. It is currently used in family medicine, pediatrics, and psychiatry residencies across the country.

Banner – University Medical Center Phoenix is the first Obstetrics-Gynecology program to implement this curriculum. The curriculum includes topics in integrative medicine including nutrition, exercise, cardiovascular health, women’s health, supplements, botanicals and herbal medicine, energy medicine, and manual medicine. It also has a strong focus on resident health and well-being, with the goal of developing physicians who model the healthy lifestyle they learn about, have a positive sense of well-being, and are relationship-centered in their approach to medical care.

It is an online, interactive curriculum, and the modules can be incorporated longitudinally or as a rotation, elective, or area of concentration.
Minimally Invasive Gynecologic Surgery

At Banner University Medical Center we strive to provide and deliver exceptional care in the most minimally invasive approach as possible. While offering all of our patients state-of-the-art, safe and compassionate treatment plans, we continuously track our patients’ data and outcomes so that we can understand what measures, procedures and treatments result in the best possible outcomes. Our patients can expect a caring and welcoming environment where academia and clinical medicine come together to deliver the highest possible quality care.

Clinical Services

Office Procedures
- Endometrial Ablation
- Hysteroscopy
- Cystoscopy
- ESSURE
- Colposcopy
- LEEP

Minimally Invasive Surgery
- Hysterectomy
  - Vaginal
  - Laparoscopic
  - Robotic
- Ovarian cystectomy
- Removal of fibroids (Myomectomy)
- Removal of polyps (Polypectomy)
- Repair of pelvic prolapse (Sacrocolpopexy)
- Incontinence treatment
- Trans-abdominal cerclage

Medical Treatment
- Hormone replacement
  - Pellets
  - Bio-identical hormones
- Couples therapy

Banner – University Medical Center Phoenix

Department of Minimally Invasive Gynecologic Surgery

<table>
<thead>
<tr>
<th>Hysterectomy Approach</th>
<th>Total</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUMCP 2016 Hysterectomies</td>
<td>691</td>
<td>100%</td>
</tr>
<tr>
<td>Abdominal Approach</td>
<td>66</td>
<td>9.6%</td>
</tr>
<tr>
<td>Robotic Assisted Laparoscopy</td>
<td>302</td>
<td>43.7%</td>
</tr>
<tr>
<td>Vaginal Approach</td>
<td>94</td>
<td>13.6%</td>
</tr>
<tr>
<td>Conventional Laparoscopy</td>
<td>229</td>
<td>33.1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MIS Department Stats</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimally Invasive Hysterectomy Total</td>
<td>90.4%</td>
</tr>
<tr>
<td>Same Day Discharge for MIS Procedures</td>
<td>97%</td>
</tr>
<tr>
<td>Readmission to Hospital</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Major Complications</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Our Commitment to Excellence

Our Minimally Invasive Gynecologic Surgery Program offers a number of advantages:
- Delivery of exceptional care
- Outpatient clinic conveniently located on the Banner University Medical Center campus
- Expertise of locally and nationally renowned medical and surgical leaders in all specialties
- Multi-disciplinary care at every level
- State-of-the-art equipment: hysteroscopy, laparoscopy and robotics
- A robust vaginal surgery program
- Collaboration with Women’s Sexual Medicine
- High volume experience with complex procedures
Reproductive Endocrinology and Infertility

Banner – University Medical Center Phoenix provides compassionate, comprehensive, individualized care for women with a variety of infertility and reproductive endocrine conditions. These include:

- Unexplained infertility
- Male factor infertility
- Fallopian tube disease
- Uterine disease
- Amenorrhea
- Polycystic ovarian disease
- Ovulatory disorders
- Recurrent Pregnancy Loss
- Endometriosis
- Diminished Ovarian Reserve Advanced Maternal Age
- Complicated Menopausal Syndromes
- Recessive Genetic disorders
- Galactorrhea

Our treatment programs include:

- Ovulation induction
- Superovulation and insemination
- State-of-the-art In-Vitro Fertilization (IVF)
- Laser-assisted pre-implantation genetic screening
- Assisted Hatching
- Fertility preservation
- Egg and blastocyst vitrification
- Embryo Banking
- Fresh donor egg services
- Frozen Donor egg services
- Embryo Donation
- Gestational Carrier
- Hormonal therapy
- Minimally invasive surgery

Our physicians are all fellowship trained, board certified and have over 20 years of experience. They are not only leaders in their field, but have led the implementation of procedures to make each patient’s experience safe and reduce the risk of multiple pregnancy.
The Sexual Medicine Program operates within the Women’s Institute as a unique and innovative resource for women throughout the greater Phoenix area, and beyond. It is the only practice dedicated to sexual health for women, and has launched new integrative programs to address both mind and body concepts that are crucial toward improving and resolving the sexual concerns of women. Aligned with that goal, we offer complete evaluation and care for all hormonal treatment options; and diagnosis and treatment of all vulvar and vaginal pain disorders. Because sexual concerns are often linked with other medical conditions or medication side effects, we fully collaborate with primary care physicians or appropriate providers in other disciplines to provide a safe and well-managed plan of care for each woman.

The Sexual Medicine Program specializes in:

Comprehensive diagnosis and treatment of women’s sexual concerns such as:
- Low libido/desire
- Diminished arousal
- Difficult or absent orgasm
- Sexual pain/trauma

Diagnosis, treatment and long-term care of vulvar disorders such as:
- Vaginismus and disorders of vaginal penetration
- Vaginal stenosis/narrowing
- Vulvar vestibulitis
- Inflammatory vulvar disorders
- Chronic vulvar irritation, vaginal infections
- Sexual effects from associated medical illnesses, surgery or medications
- Menopause and all options regarding hormone therapy
- Sexuality counseling related to body image, sexual trauma, cancer treatment, and/or any sexual concerns
- Premarital empowerment program – sexuality education and counseling session

We regularly conduct community workshops dealing with sexual health, as well as professional trainings for the medical community. In 2016 we hosted the first multidisciplinary women’s health symposium and invited obstetricians, gynecologists, behavioral health professionals and nurses to attend. Research projects in women’s sexual medicine have resulted in presentations in international meetings – The World Congress of Sexual Medicine in Beijing, China; The World Association of Sexual Health in Prague, Czech Republic; and annual clinical/scientific meetings of American professional societies such as ACOG and AASECT. Our Ob-Gyn residents regularly spend time in the sexual medicine clinic, learning one-on-one to talk with patients about sexual issues, and plan appropriate treatment interventions. Over the past year, we have conducted a sponsored research project investigating the role of a pelvic floor training device in resolving urinary incontinence and improving sexual satisfaction for women. In conducting the research, we collaborated with the University of Arizona-College of Medicine to provide a site for the medical student scholarly research project.

Our model of diagnosis and treatment incorporates programs that uniquely educate, empower and encourage personal growth, sexual discovery and healing for women. The Program looks beyond a singular medical, pharmaceutical or behavioral therapy, and instead integrates all approaches from a mind body perspective. Using a holistic sexuality approach, the physical aspect of healing is paired with facets of emotion and connection to treat the whole sexual being.
Banner – University Medical Center Phoenix (BUMC-P) opened in an apartment building in 1911 and was then called Arizona Deaconess Hospital. When a new hospital was built in 1923, it had room for 105 patients, five operating rooms and a special obstetrical delivery unit and Arizona’s first incubator. The hospital has always been a leader in obstetrics, and in the 1960s opened a neonatal intensive care unit, pictured, and hired the state’s first neonatologist to care for premature babies. When BUMC-P opened the NICU in 1964, Arizona went from 40th in infant mortality to fifth within 10 years.

The hospital already had been well-known for its promotion of mother-baby bonding, a practice it had been following since the 1940s.

BUMC-P has delivered more high order multiples – triplets, quadruplets and quintuplets – than any other facility in the world and in 2007 sextuplets were delivered here. The six babies and mom did fine.

Today the hospital’s Maternal-Fetal Center uses state-of-the-art equipment and software to insure patients receive the most recent innovative technology. Services range from basic fetal testing to complex therapeutic procedures, including identification of the need to perform fetal surgery while the baby is still in the womb. BUMC-P also provides comprehensive care to the families of developing babies diagnosed with a congenital defect.

BUMC-P is certified as a Level III Perinatal/Neonatal Center by the Arizona Perinatal Trust, which allows the hospital to care for patients with Obstetrical/Neonatal medical conditions at different stages of pregnancy and early neonatal gestation. It offers the very best in education and support. BUMC-P NICU is also an active center of Medical and Nursing Education training tomorrow’s medical and nursing providers. Additionally, BUMC-P is active in NICU research participating in and creating multiple trials both in Arizona and across the United States.
Banner – University Medical Center Phoenix continues with the recognition of being designated as a Magnet facility, a prestigious status awarded to health care organizations recognize nursing excellence. B–UMCP was originally awarded this distinction in June 2005 by the American Nurses Credentialing Center. Magnet certification is based on a cultural foundation focused on nurses’ involvement and decision-making to deliver quality and safe nursing care to achieve positive patient outcomes. We promote nurses’ professional growth, spark innovation, enlist enthusiasm for evidence-based care and process improvement, and enhances a collegial relationship between all members of the team. Approximately 7% of hospitals nationally have attained Magnet status.

B–UMCP was re-certified by the Arizona Perinatal Trust (APT) as a Level 3 Perinatal facility in 2016, which recognizes our ability to provide outstanding clinical care for patients with obstetrical medical conditions. Whether low-risk or high-risk, we recognize that every birth is a unique experience and work to provide that special memory for patients and families through comprehensive specialty care and family education. In 2016, we were also awarded Specialized Service certification for our high-risk Accreta Program, which is currently the only certified program in Arizona. B-UMCP Perinatal nurses & physicians recognized the community need and worked together to create & implement a comprehensive interdisciplinary program that is providing excellent outcomes.

Our Women’s Institute Inpatient service includes: Labor & Delivery, Antepartum, Postpartum, NICU, and Gynecologic and GYN Oncology. In addition to our Physicians, Nurse Practitioners, our Women & Infants staff consists of RNs, Patient Care Assistants, Surgical Techs, Lactation Consultants, Educators, and Clinical Nurse Specialists. Within this diversity of clinical subspecialties, there is concentrated emphasis on collaborative communication, continual learning, evidence-based practice & research. Many of our nurses have achieved additional certification in their specialty. In collaboration with physicians, our nurses also deliver needed specialty care to pregnant patients housed outside of the WIS service through provision of a co-management model of nursing care or through individual nursing consultations.

Our Women’s Institute Outpatient service is elevating the standard of care for women in Arizona and beyond with a delivery model that promotes collaboration through a multidisciplinary approach to care. Its services span everything from routine obstetrics and gynecology, to the more complex maternal-fetal medicine, breast health, diseases of the female reproductive system, menopause management, sexual health, and more. Physicians, Medical Assistants, Office Staff, and Practice Leaders comprise the key staff. Over this last year there has been an increased collaboration between inpatient and outpatient in order to provide improved seamless care delivery to patients.

Our work environment is one that is built on collaboration, learning and mutual respect. Teamwork among nursing, resident physicians, attending physicians, and ancillary departments is the basis for our care delivery model.

For all of our patients, we are dedicated to providing quality, individualized, holistic nursing care in a compassionate, family-centered environment.
Quality and Patient Safety Unit

The Women’s Institute utilizes a multidisciplinary team model to oversee quality and patient safety outcomes in order to deliver reliable, value-based care. Quality indicators are identified annually by the leaders of the specialty areas that comprise the Women’s Institute. These areas include OB, NICU, Well Newborn, OB Anesthesia, GYN/GYN Oncology, and The Women’s Center Clinic. Indicators such as medication reconciliation, management of postpartum hemorrhage, massive transfusion protocol utilization, safe surgery compliance for vaginal and c/section deliveries as well as labor epidural administration, infection rates, length of induction time, depression screening, timeliness of antibiotic administration to infants exposed to chorioamnionitis, and frequency of use of general anesthesia are examples of the types of clinical outcomes that are reviewed and trended. Additionally, the Joint Commission’s Perinatal Core Measures, patient satisfaction, length of stay, and the general hospital quality indicators (CAUTI, CLABSI, falls, etc.) are integrated into our quality monitoring model as well. Sustained results that consistently meet or exceed benchmark are our goals. Items that are not meeting identified targets are discussed and assigned to defined owners. Our Women’s Institute team connects to the facility’s Quality & Patient Safety Council through a defined reporting structure.

The below graph highlights the decrease in length of stay for the DRGs of Vaginal delivery without complications, C/Section without complications, and Normal Newborn at our facility that occurred as a result of process improvement efforts.

![Graph showing decrease in length of stay for Vaginal delivery without complications, C/Section without complications, and Normal Newborn over the years 2014-2016.](image)

**BUMCP WIS Average Length of Stay in Days**

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaginal delivery</td>
<td>3.41</td>
<td>3.03</td>
<td>2.88</td>
</tr>
<tr>
<td>C/Section without</td>
<td>2.15</td>
<td>1.95</td>
<td>1.82</td>
</tr>
<tr>
<td>complications</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal newborn</td>
<td>1.72</td>
<td>1.69</td>
<td></td>
</tr>
</tbody>
</table>

Legend:
- **Vaginal delivery without complications**
- **C-section without complications**
- **Normal newborn**
This past academic year has been outstanding from the perspective of the department’s research efforts. There have been two major concurrent program efforts. The first objective focused on enhancing the research program for the residents who are required to complete a scholarly project during their training. All of the elements of success are in place including written Resident Research Guidelines, access to expertise in research design, funding, statistical analysis and editing. The residents entering into the program now will be required to submit a manuscript along with a poster, an abstract and PowerPoint presentation for the annual Resident Research Day. The topics, enthusiasm and productivity have dramatically increased. Second, at a faculty level there has been an increasing relationship and integration with the College of Medicine-Phoenix (COM-PHX). Dr. Melissa Herbst-Kralovetz is a basic science scholar who has a joint appointment in Obstetrics and Gynecology; she can dedicate time to this department and assists Dr. Foley to begin efforts examining the microbiome of the female genital tract in health and disease. Preliminary discussions are in place to establish a collaborative scientific program to include multiple disciplines at the COM-PHX looking at the female microbiome. Certainly this program is in its nascent stage, but ideas, dedication and energies are in play.

Laura Wilkes
General Research Questions
602.839.3266

Nichole Mahnert, MD
Obstetrics and Gynecology Department
602.521.5700
Scholarship

Scholarship is one of the major components of the Women's Institute. Under the leadership of Dr. Michael Foley, focused steps have been taken to demonstrate the importance of scholarly activity. There is a broad definition of scholarship which includes, but is not limited to research. Designing innovative educational programs, actively participating in educational organizations at a local, regional and national level, quality improvement projects and any contribution to the scientific literature are examples.

A Scholarship Subcommittee meets quarterly to review scholarly activities of the residents and faculty such as oral poster presentations, papers published, as well as to review policies which could enhance the goal of increasing scholarly involvement.

All residents are required to satisfactorily complete a research project in order to graduate. As part of this program residents are given one-on-one instruction on approaching and developing a research project with their mentors, financial support for needed resources, data analysis and the capability to develop posters and oral presentations.

As the department transitions to a university-based academic medical program the emphasis on scholarly activity will increase not only integrating the collaboration of basic science faculty but increasing publications eventually to obtain extramural funding.

The Obstetrics and Gynecology Department physicians and nurses at Banner - University Medical Center Phoenix are actively engaged in scholarship on a local, national, and international level. This includes authoring a book, authoring a book chapter, research on their own or in collaboration with a resident, lecture(s) at a conference, editing a book, or a chapter, developing educational materials, writing an article for a peer reviewed journal, etc.

Our obstetrics and gynecology residents, MFM Fellows and MIGS Fellows are required to produce a research project during their tenure. Each chooses their project and a physician mentor to assist them. Banner University acknowledges these projects at an annual review where the resident explains the research and the results there from.

Banner University takes pride in the recognition of our scholarship and has established ways to fund residents’ travel and there is an annual award given at our House Commencement in June.

Now that we are a University Medical Center, scholarship will take center stage and our name will be prominent in academia.
The Banner University Women’s Center takes a unique approach to women’s health by combining academic training for obstetrics and gynecology residents with experienced board-certified faculty physicians. This allows the practice to provide advanced care for complicated women’s health issues as well as routine exams.

Our Women’s Center is a key resource in central Phoenix because Banner-University Medical Center Phoenix is the primary referral site for high-risk and complicated women’s services. The Center has several accomplished surgeons to accommodate the most complex surgeries to routine matters.

Meet Our Physicians:

Megan Cheney, MD  
Specialty: Gynecology, Obstetrics

Debra Wickman, MD  
Specialty: Gynecology, Sexual Health

Nichole Mahnert, MD  
Specialty: Minimally Invasive Gynecologic Surgery, Gynecology

Jamal Mourad, DO  
Specialty: Minimally Invasive Gynecologic Surgery, Gynecology

Candice Wood, MD  
Specialty: Gynecology, Obstetrics

Locations:

Gynecology & Obstetrics  
1441 N. 12th St.  
Phoenix, AZ 85006  
Fax: 602.521.5701

155 E. Warner Rd.  
Gilbert, AZ 85296

7555 E. Osborn Rd.  
Scottsdale, AZ 85251

Schedule an appointment at all 3 locations:  
602.521.5700
Banner – University Medical Center Phoenix
2017-2018 Educational Conferences

Minimally Invasive Gynecologic Surgery (MIGS)
Banner – University Medical Center Phoenix and the University of Arizona – College of Medicine, Phoenix are proud to offer their third hands-on conference in Minimally Invasive Gynecologic Surgery.

When: April 2018
Where: Talking Stick Resort and Spa
Scottsdale, Arizona
Host: Jamal Mourad, DO

Experience a fresh approach to minimally invasive gynecologic education with an emphasis on evidence-based protocols and the most current state-of-the-art innovations in the operating room. Topics will include surgical anatomy, prevention of surgical complications, simulation medicine, a practical approach to teaching vaginal hysterectomy, choice of hysterectomy route, discussion of open power morcellation, management of pelvic floor relaxation and stress urinary incontinence. There will also be an opportunity to practice laparoscopic suturing, sling placement and to perform a simulated TVH on the Hopkins low-fidelity model.

Who should attend?
MIGS Surgeons / MIGS Fellows / Practicing OB/Gyn Physicians / Nurse Practitioners and PAs / OB/Gyn Nurses / OB/Gyn Residents and Medical Students

To register, please call: 602.230.2273 (CARE) or www.BannerHealth.com/230CARE

Critical Care in Obstetrics - An Innovative and Integrated Model for Learning the Essentials
Banner – University Medical Center Phoenix, the Society for Maternal Fetal Medicine, and the University of Arizona – College of Medicine, Phoenix are proud to offer the second hands-on conference in Critical Care in Obstetrics.

When: November 2, 3, and 4, 2017
Where: Talking Stick Resort and Spa
Scottsdale, Arizona
Host: Michael R Foley, MD

This innovative and integrated program will address essential learning in the discipline of critical care obstetrics. Integrating pre-recorded digital didactive sessions (ensuring materials), virtual on-line simulations, case-based facilitated group learning and bedside preceptor-directed simulation drills form the basis for this progressive and original program.

Who should attend?
MFM Physicians and Fellows / Practicing OB Physicians / OB Hospitalists / Emergency Room Physicians / OB/Gyn Residents / Medical Students / Certified Nurse Midwives / Nurse Practitioners / Obstetrical Nurses

To register, please call: 602.230.2273 (CARE) or www.BannerHealth.com/230CARE
Advanced Critical Care:  
A Multispecialty Simulation-Based Symposium  

When:  January 2018  
Where:  The University of Arizona  
College of Medicine Phoenix  
Center for Simulation and Innovation  
435 N. Fifth Street  
Phoenix, AZ 85004  

Host:  Robert A. Raschke, MD, MS  

Objectives:  
Focusing on the clinical situations of highest concern to bedside intensivists, including the emergency evaluation of the patient with undifferentiated shock, the failed airway, refractory ARDS and obstetrical code arrest, this conference will bring participants up-to-date on rapidly evolving technologies such as point-of-care ultrasonography, ECMO, automated chest compression and pharmacogenomics.

Who should attend?  
ER Physicians / ER Nurses, / Anesthesiologists / OB/Gyn Physicians
OB/GYN Faculty

These physicians make it possible for The Women’s Institute to be able to say, “We exist to make a difference in people’s lives through excellent patient care.”

Farshad Agahi, MD  Jesse Hade, MD  David Orenstein, MD
Mohammad Ahmad, MD  Carol Hahn, MD  Erin O’Sullivan, MD
Mariana Amaya, MD  Karen Hannaford, MD  Jordan Perlow, MD
Martin Arellano, MD  John Harpenau, MD  Eugenia Politis, MD
Randall Ball, MD  Lexine Hebets, MD  Enriqueta Porras, MD
Belinda Beck, MD  Michael Hervey II, MD  Celeste Pottorff, DO
Ivor Benjamin, MD  Amanda Hill, MD  Marquia Redden-Grier, MD
Alka Bennion, MD  Althea Hoilett-Barrett, MD  Deanna Rolstead, MD
Snehalalkumar Bhoola, MD  Kathleen Horowitz, MD  Mary Romero, MD
Matthew Borst, MD  W David Huff, MD  Kelly Roy, MD
Cesar Castro-Marin, MD  C Kevin Huls, MD  Kathleen Schwartz, MD
William Chavira, MD  Paul Isaacs, MD  Dennis Scribner, Jr, MD
Megan Cheney, MD  Brock Jackson, MD  Diane Spieker, MD
Curtis Cook, MD  Mike Janicek, MD  Eleanor Stanley, MD
Scott Crawford, MD  Mark Johnson, MD  Roman Starikov, MD
Bruce Culbertson, MD  Robert Johnson, MD  Thomas Strong, Jr, MD
Emily Cyr, MD  Laurel Kubby, MD  Keri Sweeten, MD
George Davidson, MD  Kathleen Kuhlman, MD  Mani Tehranchi, MD
Gregory Desanto, MD  Steven Laband, MD  Sharon Thompson, MD
Lydia Ehlenberger, MD  Kristin Livingston, MD  Neil Trachtenberg, MD
John Elliott, MD  Brian MacArthur, MD  Michael Urig, MD
Laurie Erickson, MD  Shazia Malik, MD  Felipe Videla, MD
George Figueroa, MD  Paul Marshburn, MD  Debra Wickman, MD
Michael Foley, MD  Staci Mayer, MD  Danielle Williams, MD
Kisti Fuller, MD  Michael Medchill, MD  Marneece Williams, MD
Caroline Geer, MD  Laura Mercer, MD  Lyndsay Willmott, MD
Denise Gentles-Ford, MD  Drew Moffitt, MD  Shana Wingo, MD
Jill Gibson, MD  Jean Moon, MD  Candice Wood, MD
Brian Gilpin, MD  Janet Moore, MD
Key Faculty Scholarship

Michael R Foley, MD

National and International Presentations
- Visiting Professor - Cornell system hospitals - New York. Critical Care Obstetrics seminar 5 lectures.
- Improving Obstetrical Hemorrhage Morbidity and Mortality by a Checklist Based Management Protocol: Rachael Bailey, DO, Michael Foley, MD, Laurie Erickson, MD, Laura Mercer, MD
- Obstetric Challenges - Mesa - Invited speaker
- Hypertensive Emergencies in Pregnancy
- Visiting Professor - Columbia University New York Inaugural Speaker - “Dr. Gadipaddi Lecture” May 2016 “Hypertensive Emergencies during Pregnancy”
- Improving Obstetrical Hemorrhage Morbidity and Mortality by a Checklist Based Management Protocol (CREOG/APGO)—in development
- Dallas Morning News- About national trends in maternal mortality with Terri Langord---interview

Books/Chapters/Papers/Publications
- Book-Seminars in Perinatology. Critical Care in Obstetrics—began work for July publication
- Open Journal of Obstetrics and Gynecology (OJOG)”The Active Management of Postpartum Uterine Atony – a Checklist Based Approach”
- “Pregnancy in women with a bicuspid aortic valve,” --Up To Date on line publication 2016
- Pregnancy in women with congenital heart disease: General principles-----Up To Date 2016
- Proposed diagnostic criteria for the case definition of amniotic fluid embolism in research studies American Journal of Obstetrics & Gynecology Oct 2016 Pg. 408

National Leadership Positions
- SMFM Academy for Leadership and Developing in Denver (March and April) – primary faculty
- Elected - Pregnancy Foundation Board - Development Committee
- Elected in Dec 2016 to lead the National Program—“Putting the “M” back into MFM” to reduce national maternal mortality.

Research Projects/Mentoring
- The Pregnancy Foundation “Honor Your Mentor”
Key Faculty Scholarship

Jamal Mourad, MD

National and International Presentations

March 2016
- Host for Minimally Invasive Gynecologic Surgery Symposium, Scottsdale, Arizona
- Robotic Hysterectomy - Here to Stay
- MIGS The Next Generation - Scottsdale, AZ

May 2016
- Faculty - ASSESS Course
- ACOG National Meeting, Washington DC

October 2016
- Porcine Laparoscopic Lab - TLH
- Banner – University Medical Center Phoenix
- FMIGS and OBGYN Residency Program

November 2016
- Video/Abstract : 3 Port Robotic Hysterectomy: A Minimalist Approach
- AAGL Global Congress on Minimally Invasive Gynecology. Orlando Florida
- Video/Abstract : Laparoscopy in Pregnancy: A Minimalist’s Approach
- AAGL Global Congress on Minimally Invasive Gynecology. Orlando Florida
- Advances in Minimally Invasive Gynecology: Mexican Red Cross/OBGYN Society, Puerto Penasco, Mexico

December 2016
- Avoiding Injury in Pelvic Surgery – Anatomical Implications.
- Workshop on Surgical Anatomy of the Pelvis and Procedures in Patients with Chronic Pelvic Pain.
- AAGL - Dignity Health, St Joseph’s Medical Center, Phoenix, AZ.
- The Minimalist Approach to Minimally Invasive Gynecology: 3 Port RTLH
- Grand rounds: Banner – University Medical Center; University of Arizona School of Medicine – Phoenix. OBGYN residency program.

Publications

2016-17
- Journal of Minimally Invasive Gynecologic Surgery

Research

Sep 2016

Nov 2016
- Comparative Analysis of Fascial Closure Devices Hong, W.; Mourad, J. (In Progress)
- Hysterectomy in Obesity and How Route of Surgery Impacts Outcomes for Benign Disease
Laurie P Erickson, MD

Poster Presentation
• Statewide Intern Boot Camp: A Pilot Program to Promote Collaboration in Education. Mercer L, Habak P, Erickson L.
• ACOG Annual Scientific and Clinical Meeting, Washington DC, May 2016

Leadership and Committee Membership
• University of Arizona COM Phoenix Student Progress Committee
• BUMCP Medical Executive Committee
• BUMCP Peer Review Committee
• BUMCP Credentials Committee
• BUMCP OBGYN Committee
• BUMCP OBGYN Peer Review Committee
• ACOG Simulation Consortium

Ongoing Resident Research Mentorship
• Rachael Smith, PGY3: Creation of a PPH Checklist
• Willis Hong, PGY2: Suture Optimization in Labor and Delivery
• Dani Weise, PGY2: Criterion for Diagnosis of Chorioamnionitis
• Joseph Chen, PGY2: Safe Surgery Process in Labor and Delivery
• Tony Canestraro, PGY1: Implementation of Nitrous Oxide in Labor
• Jared Sander, PGY1: Implementation of a Vacuum Delivery Curriculum

Laura Mercer, MD

National and International Presentations
• “Before, Between, and Beyond Pregnancy: A Focus on Preconception and Interconception Care” Telluride Midwinter Conference in Women’s and Children’s Healthcare; Telluride, Colorado; Jan 2016
• Multiple lectures and didactic sessions; Visiting Professor, University of Buea Faculty of Medicine, Buea, Cameroon; October 2016

National Leadership Positions
• American Congress of OBGYN: Arizona Section Secretary
• American Congress of OBGYN: Arizona Section Legislative Committee Member
• American Congress of OBGYN: District VIII Medical Student Recruitment Co-Chair
• American Congress of OBGYN: Patient Education Review Board

Research/Mentoring
• Christian Garcia, PGY2: Postpartum Contraception Plans and Follow up, a multi-center analysis
• Olga Borodulin, PGY2: Cameroonian Medical Students’ Perceptions of Postgraduate Specialty Training
• Dani Weise, PGY2: Diagnostic Criteria for Chorioamnionitis and Neonatal Outcomes
• Rachael Simon, PGY3: Postpartum Hemorrhage management with a Checklist-Based management Protocol; a Collaborative Quality Improvement Project
• Kelley Saunders, PGY3: Evaluating Appropriate Preoperative Antibiotic Use in Gynecologic Surgery
• Educational research projects:
  • Optimizing Learning in Fundamentals of Laparoscopic Simulation
  • The Use of a Low Cost, High Fidelity Obstetrical Laceration Simulation Model in Order to Improve OBGYN Resident Knowledge and Confidence
  • The Use of Standardized Patients to Increased Medical Student Knowledge about Screening for Human Trafficking
Key Faculty Scholarship

Debra Wickman, MD

National and International Presentations

March 2016
• Female Sexual Health and MIGS – Important Clinical Considerations. MIGS – The Next Generation, Clinical Symposium. Banner University Medical Center – Phoenix, Arizona

April 2016
• Interfacing Medicine with Sex Therapy – Collaborating with Behavioral Therapists. Regional Meeting for Arizona Members of AASECT. Phoenix, AZ

May 2016 and October 2016
• Sexual Health and Wellness for Women. Recurring lecture for Nursing Grand Rounds

September 2016
• Pre-meeting Symposium: Is Testosterone the Missing Link in Hormone Therapy for Women? Innovations in Health Care Changing Women’s Lives, Phoenix, AZ

October 2016
• Key Note: Holistic Sexual Medicine for Women – Addressing Both Body and Brain; How We Can All Make an Impact, Multidisciplinary Symposium: Innovations in Health Care Changing Women’s Lives, Phoenix, AZ

Research/Mentoring
• Principle Investigator: The effectiveness of the Kegel Smart pelvic floor training device in resolving urinary incontinence and improving female sexual satisfaction. Clinical trial ongoing via Banner – University Medical Center IRB. November 2015 to present.

C. Kevin Huls, MD

National and International Presentations

November 2016
• Invited lecturer at Critical Care in Obstetrics Symposium, Phoenix, Arizona “Obstetric Trauma”

Publications

September 2016
• C-Hyst and uterine preserving alternatives - - pub med 27521882 - Ob Gyn Clin North Am
Staci Mayer, MD

Community Lecture
• Prenatal Care Community Lecture

Develop Educational Program/Material
• Foundational Learning: Maternal Anatomy and Physiology, Neonatal and Abnormal Labs

Ryan Stratford, MD

National and International Presentations
• Faculty Speaker at UofA MIGS conference March 2016

Publications/Books/Chapters
• EBook – The Truth about Urinary Incontinence

National Leadership Positions
• IUGA PR Committee Member 2016-2017
• Immediate Past President – Maricopa County Medical Society 2016

Research Projects/Mentoring
• Journal Reviewer for Female Pelvic Medicine & Reconstructive Surgery 2016-2017
• Medical Student instructor – UofA 3rd year medical school rotation

Shazia Malik, MD

National Leadership Positions
• Member of the AUGS (American Urogyn Society) Membership Committee (2016-2019).
• Member of the AUGS Leadership Program.