University of California Davis, Obstetrics & Gynecology

2017-2018 Residency Prospectus
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Welcome to the UC Davis Medical Center, Department of Obstetrics and Gynecology Residency website. We are a 4-year ACGME-accredited postgraduate residency training program based at the University of California, Davis Medical Center located in Sacramento, CA. Our program takes 6 residents per year, for a total of 24 categorical residents. We also have an additional 4 residents through the Family Medicine/Obstetrics residency program (See below). Our affiliate sites including Kaiser Permanente and San Joaquin General Hospital. The University of California, Davis Medical Center is a 619-bed acute-care teaching hospital, admitting more than 30,000 patients and handles more than 1 million clinic visits per year.

Our focus is helping the underserved communities in Northern California, and as such, we have a clinical presence to the Oregon and Nevada borders, south to the city of Modesto including Mammoth Lakes, and west to the city of Fairfield. This represents a 65,000-square-mile area that includes 33 counties and 6 million residents across Northern and Central California. We care for one of the largest geographical areas in the state of California, including a majority of counties that are considered rural. To further pursue our mission in helping underserved communities in Northern California, we have 4 Family Medicine/Obstetrics residents (1 per year) who complete their residency training alongside our categorical residents. We are the only residency program in the nation that integrates a fellowship in Obstetrics, making this a highly competitive program for Family Medicine candidates. Our FM/Ob residents are trained to have a full scope OB practice upon graduation, and work in the most remote and underserved regions of the United States. (See below.)

Our Department has six clinical divisions, including Maternal-Fetal Medicine, Gynecologic Oncology, Reproductive Endocrinology & Infertility, Urogynecology & Reconstructive Pelvic Surgery, Family Planning, and the University Women’s Health (UWH), our private practice generalist group. We are a referral center and can care for patients with complex obstetrical and gynecological issues.

Our residency program is part of the University of California Robotics Collaborative (UCRC). The focus is to improve the quality and consistency of resident and fellow education in robotic surgery. Our goal is to further standardize and streamline robotic surgery curricula, support advances in educational resources, and collaborate effectively in regional to national dissemination. The robotics curriculum is utilized by all the surgical subspecialties and employs a hybrid format of web-based resources, simulation protocols, in combination with in-person didactics and dry labs to further prepare residents for the challenges of live robotic surgery. We also provide access to training in the Fundamentals of Laparoscopic Surgery (FLS) curriculum for those residents who seek advanced surgical training in minimally invasive surgery. FLS training is hands-on and web based education, where residents must pass the surgical knowledge examination followed by the clinical portion of FLS prior to obtaining FLS certification.

Our resident research program is robust, with each resident graduating with a published paper or a quality improvement project that has led to a change in clinical practice. Residents are strongly encouraged to present their research projects as invited speakers at regional, national, and international meetings.

Being located in the capital of California, we have a close relationship with ACOG District IX. Many of our former graduates are very active in ACOG at the district, state, and national level. In 2005, we initiated UC Davis Resident Legislative Lobby Day. Our residents spend the morning at the ACOG offices learning about bills related to women's health care. In the afternoon, they meet with their respective state representative. Our Resident Legislative Lobby Day is done on a yearly basis in May and now attracts OB/GYN residents from all over the state of California.

We provide our residents with an excellent education and training, with the opportunity to pursue post-training opportunities in fellowships, academic centers, the Kaiser system and private practice. Our learning environment fosters residents to develop their medical and clinical skills. This past year, our residency program was very proud to receive the ACOG Junior Fellow national physician wellness award for Emotional/Intellectual Health. We know that residency can be challenging; our residents work hard, but also know there is life outside work. You can check out our Instagram (#ucdobgynresidency) or Facebook page to see the life of a resident at UC Davis.

We wish you the best in your future endeavors. If you have further questions about our program, please feel free to call us at 916-734-6978 or email our amazing Residency Coordinator, Martha Morris (mmorris@ucdavis.edu).

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Welcome to the University of California, Davis Department of Obstetrics and Gynecology. The Department is a leader in patient care as well as basic and clinical research and medical education. We are advancing how technology can help women with issues related to pregnancy, gynecologic disease and cancer. With advanced surgical techniques, including robotic surgery, our physicians provide from basic to the most complex care. In fact, UC Davis was rated the #1 hospital for all gynecologic care in the Sacramento region and #12 in the nation for 2017-2018 by the U.S. News and World Report. We focus on combining compassion and understanding so that each patient can feel confident that she is receiving the best care. The Department serves a multistate region north to Washington and east to Nevada.

Our goals are straightforward: the faculty, fellows, residents and staff of our Department want UC Davis to be the destination of choice for women to seek obstetric and gynecologic health care; to be the premier location for residency and fellowship training, and to create new knowledge through research on women's health issues. Our challenge is to continually find new ways of thinking about service because the health care environment is constantly changing. To meet this challenge, our physicians maintain flexibility and commitment to provide the highest quality of care within the changing healthcare landscape. As the Chair of the Department of Obstetrics and Gynecology at the University of California, Davis, I am proud to lead as well as be a member of an extraordinary team of physicians, scientists, residents, fellows, and staff who take great pride in our promise to improve the quality of life for all women.

Our Department physicians provide a multi-disciplinary set of both specialty and subspecialty services including: Family Planning, Gynecologic Oncology, Maternal-Fetal Medicine, Reproductive Endocrinology and Urogynecology and Pelvic Reconstructive Surgery. To improve access to our services, we have faculty physicians who belong to our University OB/GYN Associates (UOGA), who are located throughout the Sacramento region, and bring their patients to UC Davis Medical Center for hospital services.

We are developing exciting new multidisciplinary services in collaboration with other Departments. The Fetal Treatment Center is a unique service in the Sacramento region, spearheaded by our MFM specialists, and working close-knit with Radiology, Neonatology, and Pediatric Surgery. Using high resolution state of the art ultrasonography, fetuses with surgically remediable lesions (such as twin-to-twin transfusion syndrome) can be identified for in utero treatment by specially trained pediatric surgeons. The Division of Gynecologic Oncology supports care of women's cancers including sexual health for female oncology patients and palliative care via Supportive Oncology through the UC Davis Comprehensive Cancer Center. The Family Planning Division, provides comprehensive regional care for contraception and abortion, as well as a robust portfolio of clinical trials for new contraceptive technologies. The Urogynecology Division provides all aspects of female pelvic medicine and reconstructive surgery including complex mesh removal.

As you consider your future, moving from medical school to residency is a big change. Our Department is continually going through that same process. We have incredible intellectual capacity within the Department which provides an incredible foundation for growth. The University and the Health System are investing significantly in our Department's future by supporting our plans to further develop our clinical and research programs. Over the last several years, we have expanded our faculty in Family Planning, Gynecologic Oncology, Maternal Fetal Medicine, Urogynecology and as well as hiring new academic generalist faculty. Our current research funding is over $1.8 million, and includes translational and clinical science, and an expanding portfolio of clinical trials. Over the next year, we will be expanding our research repertoire including faculty with specialization in basic science, translational science, and clinical outcomes research.

To me, there is no more exciting a place to be for the next 4 years than UC Davis. As a resident candidate, the benefits of the residency training partnership between Kaiser Permanente (primarily Kaiser Roseville) and UC Davis will provide an amazing learning experience and an opportunity for tremendous personal growth.

As you interview with us as a residency candidate, ask the residents and faculty about our collaborative supportive environment, educational and research opportunities. I think you will be very impressed with our residency training program.

Good luck in pursuing the next big step in your medical career.

Sincerely,

Gary S. Leiserowitz, MD, MS
Professor and Chair, Department of Obstetrics and Gynecology
Chief, Division of Gynecologic Oncology
MISSION STATEMENT
We strive to be the leaders in obstetric, gynecologic, and reproductive health for women of all ages in the local and global communities through excellence in clinical care, education, and research.

- We promote the highest standard of obstetric, gynecologic, and reproductive health through personalized clinical care based on the latest research and innovation.
- We create future leaders in obstetric, gynecologic, and reproductive health and enhance life-long learning for all health professionals in our community through thoughtful and innovative education.
- We conduct research that provides evidence to expand the boundaries of our knowledge, and to inform the practice and improve the quality of obstetric, gynecologic, and reproductive healthcare.

VISION STATEMENT
Empowering women to achieve healthier lives…it all starts here.
Synopsis of the Obstetrics and Gynecology Residency Program

The UC Davis Obstetrics and Gynecology residency program is fully accredited by the Accreditation Council for Graduate Medical Education. The current curriculum for Obstetrics and Gynecology residency training at UC Davis is a comprehensive clinical program that spans the entire breadth of the specialty including both subspecialty experiences and primary care training. Training is accomplished at UCDMC and Kaiser Permanente hospitals with some rotations also utilizing additional local community hospitals. The following table shows the number of cases available for resident participation:

<table>
<thead>
<tr>
<th></th>
<th>UCDMC Data from 2016/17</th>
<th>Kaiser Data from 2016/17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inpatient</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ob Deliveries</td>
<td>1568</td>
<td>5945</td>
</tr>
<tr>
<td>Ob C-Sections</td>
<td>514</td>
<td>1713</td>
</tr>
<tr>
<td>Ob Low Birth Weight Infants (&lt;2500 grams)</td>
<td>184</td>
<td>516</td>
</tr>
<tr>
<td>Gyn Procedures – Major</td>
<td>998</td>
<td>1144</td>
</tr>
<tr>
<td>Minor</td>
<td>1873</td>
<td>1084</td>
</tr>
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Teaching in the residency is provided by 90 Faculty between UC Davis and Kaiser. In addition to the training activities of the program, Obstetrics and Gynecology residents are considered an integral part of the teaching faculty for medical students and acting interns on the Obstetrics and Gynecology service. The following table shows the Department of Obstetrics and Gynecology residency curriculum for 2016/2017.

| PGY-I       | UCDMC       | Oncology Service       | 6 weeks |
|            | UCDMC       | Gynecology Service     | 6 weeks |
|            | UCDMC       | Obstetrical Service    | 12 weeks|
|            | Kaiser      | Obstetrical Service    | 8 weeks |
|            | UCDMC       | NICU                   | 2 weeks |
|            | UCDMC       | Internal Medicine—MICU | 2 weeks |
|            | UCDMC       | Emergency Room         | 4 weeks |
| PGY-II     | UCDMC       | Family Planning        | 8 weeks |
|            | UCDMC       | Obstetrical Service Day| 8 weeks |
|            | UCDMC       | Obstetrics Service Night Float | 8 weeks |
|            | UCDMC       | Gynecology             | 8 weeks |
|            | Kaiser      | Obstetrical Service    | 8 weeks |
|            | Kaiser      | Gynecology Service     | 8 weeks |
| PGY-III    | UCDMC       | Gynecologic Oncology Service | 8 weeks |
|            | UCDMC       | Uro Gynecology         | 8 weeks |
|            | UCDMC       | Obstetrics Service Night Float | 8 weeks |
|            | Kaiser      | Obstetrical Service    | 8 weeks |
|            | Kaiser      | High Risk Obstetrical Service | 8 weeks |
|            | Kaiser      | Gynecology Service     | 8 weeks |
| PGY-IV     | UCDMC       | Ambulatory Service     | 8 weeks |
|            | UCDMC       | Gynecology Service     | 8 weeks |
|            | UCDMC       | Gynecology Plus        | 8 weeks |
|            | UCDMC       | Obstetrical Service Day| 8 weeks |
|            | Kaiser      | Reproductive Endocrinology & Infertility | 8 weeks |
|            | Kaiser      | Gynecology Service     | 8 weeks |
UC Davis Health System

The mission of UC Davis Health System is discovering and sharing knowledge to advance health. We pursue our mission through the education of physicians, medical investigators and other healthcare providers; research into new medical knowledge and applying it to the health challenges that face our world; and patient care and public service for our local and global community.

UC Davis School of Medicine was founded in 1966 and is one of six University of California medical schools. The UC Davis School of Medicine located in Sacramento, California has a major impact in Northern California through education of new physicians, research activities, patient care and public service. The UC Davis School of Medicine ranked among the top 50 graduate programs for research in 2011 according to an annual survey published by U.S. News & World Report.

UC Davis ranked number one in the Sacramento Metro area and sixth in California. UC Davis medical Center has again ranked as one of the best hospitals in the U.S. for 2015-16 in 10 adult medical specialties by U.S. News & World Report. Gynecology ranked #39 in the nation. It is also home to the only NCI-designated cancer center between San Francisco and Portland, Oregon.

Faculty in the School of Medicine specialize in a wide range of basic and applied research, including those related to neuroscience, cancer biology, vascular biology, genetic diseases and functional genomics, health services, infectious diseases, nutrition, telemedicine and vision science.

UC Davis Health System collaborates with several affiliated research institutions, including the Shriners Hospital for Children, Veterans Affairs Health System, USDA Western Human Nutrition Research Center and the Lawrence Livermore National Laboratory.

In addition, School of Medicine Faculty are engaged in innovative collaborations within the UC Davis community—including the School of Veterinary Medicine, the Division of Biological Sciences, the College of Agricultural and Environmental Sciences, the College of Engineering, and the California Regional Primate Research Center which faculty from our department from joint appointments. UC Davis also has the country’s largest stem cell facility.
Sacramento and the Central Valley

Sacramento is located in the heart of the California Central Valley between the Coast Range and Sierra Nevada. It’s central location makes traveling easy, within a one hour drive to Napa Valley and Sonoma and a two hour drive to beautiful Lake Tahoe or San Francisco.

Sacramento, California’s capital, has some large urban parks, including a 26-mile river parkway and bike trail along the American and Sacramento rivers. The sports scene is vibrant. We have the Sacramento Kings basketball team who were just given a new home with the opening of the state-of-the-art Golden 1 arena in downtown Sacramento. We also have the Sacramento Republic FC soccer team, ranked first in the Western conference division and ranked 4th nationally. We also have a large running community that appreciates the surrounding even terrain. Every December, UC Davis Health System sponsors the California International Marathon, with many faculty, residents and staff from our department participating. There are many quaint neighborhoods, with old town Sacramento giving you a glimpse to the past and the gold rush days.

We have a range of cultural attractions. Sacramento is considered the Farm-to-Fork capital with an ever increasing food movement. We are lucky to have some of the best produce in the world all year round, with numerous farms markets throughout the city. Sacramento is known for its love of beer, ranked 5 of 10 cities for its craft beers. To highlight this, Sacramento has the famous ‘brew bike’ tour and beer week every February which showcases over 40 local breweries. Sacramento, per capita, has an inordinate amount of independently owned coffee shops. Two of our favorite coffee houses (Temple Coffee and Old Soul Co.) were selected nationally as the Top 30 coffees in 2015.

Despite being in California, we do get 4 seasons. The winters are generally mild and rainy. Summers are sunny, hot and dry (did we say hot?). Although on some days the thermometer can exceed 100 degrees, summer days are usually in the low 90s with low humidity and a reliable sea breeze and it cools to overnight temperatures in the 60s. Spring and fall weather is among the most pleasant in the state with beautiful foliage.
Class of 2018

Molly Baker, M.D.
University of California, Irvine

Hayley Coker, M.D.
University of California, Davis

Lindsay Ferguson, M.D.
Creighton University

Susan Delmar, M.D. (FM/OB)
University of Michigan

Adam O’Brien, M.D.
University of Washington

Adriana Piazza, M.D.
University of Washington

Claire Steen, M.D.
University of California, Davis
Class of 2019

Allison Aul, M.D.  
University of Wisconsin

Sarah Forrest, M.D.  
Creighton University

Ijeoma Iko, M.D.  
Brown University

Sarah Smiley, M.D.  
University of North Carolina

Angel Tabuyo-Martin, M.D.  
University of California, San Diego

Sarah Watson, M.D.  
University of California, San Francisco
Class of 2020

Ana Chartier, M.D.
University of Washington

Nuria Garcia-Ruiz M.D.
University of Puerto Rico

Arielle Gire-Dumas, M.D.
University of California, Davis

Fakhra Khalid, M.D.
University of California, Davis

Caroline Ornellas M.D. (FM/OB)
George Washington University

Kelli McEntee, M.D.
University of Washington

Ravi Nakrani, M.D.
Keck School of Medicine of the University of Southern California
Class of 2021

Zahabiya Chithiwala-Beattie, M.D.
Drexel University

Mark Evans, M.D., M.S.P.H.
University of Pittsburgh

Allyson Jang, M.D.
Pennsylvania State University

Hayley Rousek, M.D.
University of California, Davis

Elyse “Vyvy” Trinh, M.D.
Brown University

Bryn Willson, M.D.
Creighton University

Nicole Yee, M.D.
University of Arizona-Phoenix
Salary and Benefits

Professional liability insurance is provided by the Regents of the University of California. Housestaff benefits include medical, dental and vision insurance, and disability insurance; life/accidental death and dismemberment insurance; on-call meals; on-call sleep rooms; physician lab coats, laundry services; and maternity/paternity leave. Annual vacation leave (24 working days per year) and sick leave (12 working days per year).

* $1,000 one-time relocation allowance—for mitigation of new expenses at the start of residency.

* Yearly $1,500 Personal allowance — may be used for related transportation, parking or incidentals (including technology

* One-time payment of USMLE step III testing fees ($690 maximum)

* Payment for an ABOG Board Review Course

Effective July 1, 2017 the annual housestaff salaries are as follows:

<table>
<thead>
<tr>
<th>Yearly</th>
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<tbody>
<tr>
<td>PGY-I</td>
<td>$53,947.00</td>
</tr>
<tr>
<td>PGY-II</td>
<td>$55,736.00</td>
</tr>
<tr>
<td>PGY-III</td>
<td>$57,925.00</td>
</tr>
<tr>
<td>PGY-IV</td>
<td>$60,211.00</td>
</tr>
</tbody>
</table>

In the past, resident salaries have typically increased 3.3% annually.
Obstetrical Services

Our residency program provides obstetrical experience at two sites, UC Davis Medical Center and Kaiser Roseville. Combined, these sites provide 7,000 deliveries for the residents and include low and high risk pregnancies.

Labor and Delivery

Residents at all levels have direct responsibility for the evaluation and management of obstetric patients admitted to the hospital. They are directly responsible for labor management, vaginal and operative deliveries as well as a full range of obstetrical procedures including forceps and vacuum assisted deliveries, cervical cerclage, tubal ligation, obstetrical ultrasound, and amniocentesis. At UCDMC, the chief and third year residents are responsible for the management of the obstetrical service. At Kaiser, the second and third year residents are responsible for managing the obstetrical service. At both sites, faculty supervise patient care while guiding residents in their decision-making. At Kaiser, Certified Nurse Midwives (CNM) are also involved in resident teaching.

Maternal-Fetal Medicine

Resident experience in Maternal-Fetal Medicine is gained at both UCDMC and Kaiser hospitals. At UCDMC, the inpatient antepartum service is overseen by the PGYII and PGYIV residents. The perinatal faculty provides daily board rounds with didactic learning four days a week discussing antepartum, intrapartum and postpartum issues. The chief and second year residents work directly with the MFM faculty in the identification, evaluation and management of complicated obstetrical patients. There are approximately 20-30 antepartum admissions per month at UCDMC with a full range of perinatal complications. Over 20% of all our deliveries have a high-risk issue. UCDMC accepts high risk transports from throughout northern California (Oregon border, Shasta, Redding, Susanville, Lake Tahoe, Stockton, Modesto, Lodi, Vacaville, Fairfield, Mammoth Lakes, Bishop) and subsequently managed by the antepartum service.

At Kaiser, the Maternal-Fetal Medicine service is managed by an MFM and PGYIII resident. This service has approximately 30-40 antepartum admissions per month. MFM faculty provide daily board rounds with didactic learning 4-6 days a week discussing high risk and laboring patients. The PGYIII resident works directly with the MFM faculty in identification, evaluation and management of complicated obstetrical patients. Kaiser Roseville accepts high risk transports from other Kaiser facilities throughout Northern California and subsequently managed by the antepartum service.

Outpatient Experience

Both UCDMC and Kaiser provide outpatient high risk services. Both sites have Maternal-Fetal Medicine clinics as well as Diabetes clinics. UCDMC also has a specialized clinic caring for women with psychiatric disorders, to include drug addiction and methadone management. These clinics have specialized staff including social workers and dieticians to provide seamless, patient-centered care. Residents have their own continuity clinics to allow the experience of following a patient to term. Kaiser provides specialized Nurse Practitioners for their clinics.

Prenatal Diagnosis

Both UCDMC and Kaiser are accredited as a Prenatal Diagnosis Center (PDC) by the California Department of Public Health, Genetic Disease Screening Program. During their exposure to prenatal diagnosis, residents will be involved in genetic counseling sessions (AMA, fetal anomalies, abnormal screening results, family history of disorders), performing ultrasounds, interpreting images and counseling patients based on the findings. Residents are well trained in ultrasonography and can comfortably perform limited anatomical surveys, recognize major anomalies, soft markers for aneuploidy as well as perform and interpret umbilical artery Doppler studies by the end of their residency training.
Infertility and Endocrinopathies

The goal of the resident’s rotation in Reproductive Endocrinology and Infertility is to provide each resident with experience in the evaluation and treatment of women with reproductive endocrine disorders, and to treat and evaluate couples with infertility. Our infertility services including IVF are provided in collaboration with Kaiser and California IVF in Davis. We also provide reproductive endocrinology services to women in Sacramento in the resident clinic. We evaluate and treat patients with a wide range of reproductive disorders including menstrual dysfunction, endometriosis, uterine fibroids, congenital uterine anomalies and polycystic ovarian syndrome. We also provide expertise and teaching in the area of minimally invasive procedures including advanced laparoscopy and operative hysteroscopy. We also perform minimally invasive surgical procedures in the office setting. The Division is heavily involved in various research projects supervised by National Institutes of Health-funded investigators who, among other projects, are studying the causes of, and new treatments for conditions such as polycystic ovary syndrome and endometriosis.

Family Planning

The primary goal of the Family Planning component of the UC Davis Obstetrics and Gynecology Residency Training Program is to ensure competency in contraception counseling and provision, as well as counseling and management of unintended and abnormal pregnancies. Residents will be exposed to educational opportunities in family planning throughout the entire residency. In addition the Family Planning rotation, established as part of the Kenneth J. Ryan Residency Training Program in Abortion and Family Planning, specifically trains the resident in first trimester ultrasonography, contraception and pregnancy options counseling, IUD and contraceptive implant insertion, first trimester medical abortion, surgical abortion, and management of early pregnancy failure. The curriculum incorporates a multi-faceted approach to learning: lectures, journal clubs, outpatient clinics, ambulatory surgery, and management of high-risk inpatients. Similar to other subspecialties in our program, interested residents will have the opportunity to participate in family planning research with mentorship from faculty in the Division of Family Planning.

Urogynecology

At UC Davis, the Urogynecology experience is integrated throughout the residency. Junior residents are invited into the operating room and help manage patients postoperatively. During weekly clinics, senior residents participate in the diagnosis and management of urinary tract conditions, pelvic organ prolapse, pelvic floor dysfunction and defecatory disorders. Residents are exposed to both simple and complex urodynamics as well as office cystourethroscopy. Residents follow patient from clinic, to the operating room where they participate in the surgery to the follow up postoperative visit.

At Kaiser the PGYII, PGYIII and PGY IV operate with the urogynecologists on inpatient procedures.
Residents gain experience in operative gynecology, gynecologic malignancies and management of critically ill patients while rotating on the gynecologic oncology service. Participation in these activities occurs at all postgraduate levels.

The UCDMC service is directed by the PGYIII resident and gynecologic oncology fellows assigned to the rotation. The PGYIII resident is responsible for all perioperative management including preoperative evaluation, operative procedures and postoperative care. The fellow is responsible for the cancer management. The PGYIII resident may perform as primary surgeon with the attending oncologist as first assistant, especially in benign cases, but principally assists the attending oncologist during radical pelvic surgery. PGYIII residents are taught to open retroperitoneal spaces, dissect out the pelvic ureters, and participate in bowel resections and lymph node dissection.

At Kaiser Permanente there is an active oncology case load utilizing residents at the PGY II, III and IV levels.

Gynecologic Oncology Service

The goals of Gynecology Training at UC Davis is to ensure a firm foundational knowledge of the common and often complex topics of Benign Gynecology, competency in the performance of common gynecologic procedures and proficiency in the performance of complex and advanced gynecologic surgeries. Residents will be exposed to educational opportunities throughout their entire four years of training. The curriculum incorporates a multi-faceted approach to learning which include the following highlights:

GYNECOLOGY ROTATION: During the Gynecology Rotation at UC Davis, the GYN Team consists of the GYN Chief Resident, GYN Intern, and the GYN-2. The GYN Intern and Chief Resident primarily manage the inpatients on the GYN Service. These patients are usually in postoperative recovery, or are directly admitted from the Emergency Department, or are transferred from other healthcare facilities. The GYN-2 primarily serves as the consultant for patients with acute gynecologic problems on other Inpatient services or in the Emergency Department. The Chief Resident oversees all of these patients. All residents on the GYN rotation have the opportunity to participate in OR cases.

GYNECOLOGY EDUCATION: There is a weekly GYN Conference. The faculty, residents, and medical students are all welcome to participate in this educational conference. During this conference, upcoming surgical cases are discussed and a GYN topic is presented for learning purposes. In addition, Benign GYN topics are reviewed in depth during resident didactic sessions and are a focal topic for discussion during Journal Clubs. Finally, residents see patients with a variety of gynecologic issues in their continuity clinics.

GYNECOLOGY SURGERY: All Benign GYN surgical procedures at UC Davis are performed with a resident unless a resident is not available. Surgical cases for residents come from a variety of places. Surgical patients may come from the residents’ continuity clinics, and from the Faculty clinics. In addition, there is an outpatient procedure suite where the residents can perform outpatient surgical procedures such as Hysteroscopy, D&Cs, Endometrial Ablations, LEEP, etc. Benign gynecologic surgical procedures at UC Davis offer a wide breadth of all complex gynecologic surgery including Robotics, Traditional Laparoscopy, Vaginal Surgery, as well as Laparotomy.

GYNECOLOGY FACULTY: The Faculty who work closely with the residents on the GYN Service include Faculty from the Division of Family Planning, University OB/GYN Associates, and the Division of Gynecology. All of the Faculty at UC Davis are committed to resident education. They welcome the opportunity to perform OR cases with the residents, and they are gratified to observe the graduated levels of responsibility and independence from Internship to Chief Residency.

GYNECOLOGY FUNDAMENTALS OF LAPAROSCOPIC SURGERY: The residents have the opportunity to become certified in FLS. We also have a state of the art simulation center, The Center for Virtual Care, where we have the opportunity to train residents in a variety of GYN simulation exercises including Robotics Training.
Our residency program recognizes the infrequency in which certain emergencies can happen and the importance in which medical knowledge, patient care, communication and teamwork play a role in these situations. To address this, we have partnered with the Center for Virtual Care to allow our residents the opportunity to practice these skills. The Center for Virtual Care is a state of the art facility showcasing a Trauma Bay, OR, inpatient unit, 6 bay simulation area, standardized patient exam rooms, debrief rooms, and a conference room. Our residents spend 3 hours every other month going through OB simulations to increase their skill sets, including communication after an adverse event and documentation of the event. Examples of OB simulations include management of hypertensive crisis, seizures in pregnancy, thyroid storm in pregnancy. We also use simulation technology to each procedure related skills including dystocia maneuvers, breech deliveries, operative deliveries (forceps and vacuum).

From the Gynecology side, residents can become certified in the Fundamental of Laparoscopic Surgery (FLS) prior to graduation and have undergone Robotics training through our affiliation with the Robotic Training Network. This training allows for increased exposure and experience in these types of cases earlier on in their training. We also have yearly laparoscopy simulations using animal models in partnership with the UC Davis School of Veterinary Medicine.
Elective Clinical Experiences in International Medicine

Having an experience as a health care provider in a developing country can be an enriching experience. International medical electives have become very popular during the third and fourth years of medical school and applicants to residencies increasingly wish to continue such experiences during their residency training. At UC Davis, several international sites that can serve as elective clinical experiences in international medicine for our 3rd year residents. During these experiences, our residents are either accompanied by our own faculty or are supervised by clinical faculty from other established institutions. We believe having dedicated time for an elective rotation elsewhere is an important part of our training program.
Physicians as Activists in Women’s Health

At UC Davis, we want our residents to be well versed and engaged in the public debates on health care policies that affect women’s health and delivery of women’s health care. We also want our residents to become the leaders in women’s healthcare. Since 2005, we have spearheaded resident Lobby Day at the state capitol along with ACOG District IX. Now, joined by other OB/GYN residents from across California, our residents learn about proposed bills that could affect women’s care. Our residents also taught how to be heard; Lobby Day allows all our residents the opportunity to discuss bills with lawmakers, health analysts and state senators. We believe this experience allows our residents to become future leaders in women’s health care.

We are fortunate to have faculty members who are known at the state, national and international level for their advocacy:
- Jeanne Conry, MD PhD, Immediate Past President of The American Congress of Obstetricians and Gynecologists (former UC Davis OB/GYN resident, now faculty at Kaiser Roseville)
- Kelly McCue, MD, Secretary ACOG Distric IX (former UC Davis OB/GYN resident, now faculty at Kaiser Roseville) Special Delegation vice Chair, California Medical Association
The UC Davis Center for Perinatal Medicine and Law is the first of its kind, a multidisciplinary university-based center. Our mission is to provide education, research and community service to members of the medical and legal professions and the general public on issues involving Perinatal Medicine and the Law.

Malpractice litigation is a common occurrence for the healthcare professional with more than two-thirds of Obstetrics and Gynecology physicians being sued at least once in their careers. The Center recruits experts in Obstetrics, Neonatology, Perinatal Pathology, Pediatric Neurology and Pediatric Neuroradiology, who join legal experts and educate medical students, residents, fellows and faculty about medical negligence litigation. The goal is to broaden our understanding of the role risk management professionals, medical liability claims executives and attorneys have in clinical medicine and the medical liability dispute resolution process.

The Center explores issues related to proper documentation, promulgation and implementation of clinical practice guidelines and opportunities to improve patient-physician communications all in an effort to reduce the incidence of adverse perinatal outcomes and the risks of litigation. The educational formats include lectures, mock legal proceedings, question-and-answer sessions, Grand Rounds, and conferences.
Family Medicine/Obstetrics Program

To answer the critical rural need, UC Davis Department of Family and Community Medicine and the Department of Obstetrics and Gynecology collaborated to develop a curriculum that gives new family physicians the training and experience to provide broader care of their female patients. It allows them to become competent in all operative obstetrical services while still being able to provide the full services expected of a family physician.

This residency program accepts one resident annually. Family Medicine/Obstetrics residents are required to spend four to five months in obstetrical service during each of their four years of their residency program. These residents will receive identical obstetrical training to the categorical obstetrical residents.

UC Davis Family Medicine / Obstetrics Graduates:

Blanca Solis MD (2001) – UC Davis, Sacramento, CA
Wetona Eidson-Ton MD (2002) – UC Davis Dept of Family and Community, Sacramento CA
Camille Goodspeed DO (2002) – Westside Family Health Center Wilmington, DE
Kristine Ewing MD (2003) – Naval Hospital Bremerton, WA
Heather Diaz MD (2003) – Lancaster Family Health Center Salem, OR
Shilpa Pakala MD (2005) – Magnolia Family Health Center Oxnard, CA
Sarah Marshall MD (2007) – UC Davis Dept. of Family and Community Sacramento, CA
Aline Hansen-Guzman MD –(2009) – Salud Family Health Center in Fort Morgan, CO
Kyla Rice MD – (2010) – Santa Rosa Community Health Centers in Santa Rosa, CA
Tara Arness Vu MD (2011)– Open Door Community Health Center in McKinleyville, CA
Joseph Magley MD –(2012) – Franciscan Medical Clinic in Enumclaw, WA
Jessica Porter MD –(2013) – Private Practice, Hood River, OR
Ryan Spielvogel MD –(2014) – Sutter Medical Group in Sacramento, CA
Rachel Peterson MD – (2015) – Northeastern Rural Health Clinic / Banner Lassen Hospital, Susanville, CA
Carly Grovhoug, MD—(2016)— Sutter, Winters, CA
Megan Ash, MD—(2017) - Sutter Medical Group, Sacramento, CA
The two-year fellowship is designed to include training in family planning clinical care, participation in the design and performance of clinical trials, and international field work. During the two years, the fellow will complete course work at UC Davis to satisfy the degree requirements of a Master of Advanced Study in Clinical Research or a Master of Public Health.

The family planning fellow works closely with the residents and can function as a junior faculty.

Fellowship in Gynecologic Oncology

The three-year fellowship training program in Gynecologic Oncology includes 24 months of clinical training and 12 months of mentored focused research. We accept one fellow annually, with a total of three fellows. The clinical training includes instruction in gynecologic cancer surgery and complex benign surgery, under the direction of the members of the Division of Gynecologic Oncology.

The Gynecologic Oncology fellows work closely with the obstetrics and gynecology residents and often function as junior faculty. The residents benefit from close supervision and support on peri-operative and cancer issues. The residents develop a close working relationship with the fellows.
UC Davis Health System
Obstetrics & Gynecology

2017–2018 Residency Prospectus

University Women’s Health

Alison Breen, M.D.
Assistant Clinical Professor
Practicing in Elk Grove

Dr. Breen received her undergraduate degree from Wellesley College with a B.A. in Anthropology and Japanese Studies. She received her M.D. from University of California, Davis. She completed her residency in Obstetrics and Gynecology at The University of California, Davis.

Jennifer Conwell, M.D.
Assistant Clinical Professor
Practicing in Folsom

Dr. Conwell received her undergraduate degree from Connell University with a B.S. in Human Development. She received her M.D. from The University of California, San Francisco. She completed her residency in Obstetrics and Gynecology at The University of California, Davis.

Jocylen Glassberg, M.D.
Assistant Clinical Professor
Practicing in Davis

Dr. Glassberg received her undergraduate degree from Southwestern University with a B.A. in Biology. She received her M.D. from Texas A&M College of Medicine Scott & White. She completed her residency in Obstetrics and Gynecology at Texas A&M College of Medicine Scott & White. Hospital and Clinic.

Albert Liu, M.D.
Associate Clinical Professor
Practicing in Elk Grove

Dr. Liu studied Chemistry at Fu-Jen Catholic University in Taipei, Taiwan culminating in a B.S.. He went on to attain a Master’s of Science in chemistry at Kansas State University. He received his M.D. from Kansas Medical School. He completed his residency in Obstetrics and Gynecology at Kansas University Medical Center.

Bahareh (Behy) Nejad, M.D.
Associate Clinical Professor
Practicing in Roseville

Dr. Nejad received her undergraduate degree from Miami University with a B.A. in Chemistry. She received her M.D. from Northwestern University Medical School. She completed her residency in Obstetrics and Gynecology at Northwestern Memorial Hospital in Chicago.

Jennifer Ozeir, M.D.
Associate Physician
Practicing in Sacramento

Dr. Ozeir received her undergraduate degree from University of California, Berkeley with a B.A. in Social Science. She received her M.D. from Wayne State University School of Medicine. She completed her residency in Obstetrics and Gynecology at Stanford University Hospital.
University Women’s Health, continued

Dennis Mauricio, M.D.
Assistant Clinical Professor
Practicing in Sacramento

Dr. Mauricio received his undergraduate degree from the College of Medical Technology, Centro Escolar University, Manila Philippines with a B.S. in Medical Technology. He received his M.D. from University of Santo Tomas, Philippines. He completed is residency in Obstetrics and Gynecology at the State University of New York at Buffalo.

Clara K. Paik, M.D.
Professor, Co-Division Director University Women’s Health
Clinic Medical Director, Associate Residency Program Director

Dr. Paik received her undergraduate degree from the University of California, Los Angeles with a B.S. in Psychobiology. She received her M.D. from the University of California, San Francisco. She completed her residency in Obstetrics and Gynecology at the University of California, Davis.

Jenise Phelps, M.D.
Assistant Clinical Professor
Practicing in Folsom

Dr. Phelps received her undergraduate degree from St. Mary's College of California with a B.S. in Biology/Chemistry. She received her M.D. from The Medical College of Wisconsin. She completed her residency in Obstetrics and Gynecology at The University of California, Davis.

Nichole Ruffner, M.D.
Assistant Clinical Professor
Practicing in Sacramento

Dr. Ruffner received her undergraduate degree from Claremont McKenna College with a B.A. in Psychobiology. She received her M.D. from Drexel University College of Medicine. She completed her residency in Obstetrics and Gynecology at SUNY Downstate Hospital Center/Kings County Hospital Center.

Michael Trifiro, M.D.
Assistant Clinical Professor
Practicing in Sacramento

Dr. Trifiro received her undergraduate degree from University of California, Davis with a B.S. in Cell Biology. He received his M.D. from University of California, San Diego. He completed his residency in Obstetrics and Gynecology at The University of California, Davis.

L. Elaine Waetjen, M.D.
Professor

Elaine Waetjen, M.D. received her undergraduate degrees from the University of California, Santa Barbara with a B.A. in History and from University of California, Santa Cruz with a B.A. in Biology. She received her M.D. from Northwestern University Medical School and completed a residency in Obstetrics and Gynecology at the University of Pittsburgh, Magee-Women’s Hospital. Between 1999-2001, Dr. Waetjen was at the University of California San Francisco as a Women’s Health Clinical Research Fellow in Urogynecology.
University Women’s Health, continued

Cheryl Walker, M.D.
Assistant Researcher

Dr. Walker graduated from Smith College with a degree in History. She received her M.D. from the University of California, San Francisco and completed her residency in Obstetrics and Gynecology and a Fellowship in Reproductive Infectious Disease and Immunology at The University of California, San Francisco.

Nancy West, M.D.
Associate Physician
Practicing in Auburn

Dr. West received her undergraduate degree from the University of California, Davis with a B.S. in Animal Physiology. She received her M.D. from the University of California, Davis. She completed her residency in Obstetrics and Gynecology at the University of Southern California Women’s Hospital.

Debra Wright, M.D.
Clinical Professor, Co-Division Director University Women’s Health
Medical Director of Maternity Services

Dr. Wright received her undergraduate degree from University of California, Davis with a BS in Psychology. She received her M.D. from Tulane University School of Medicine. She completed her residency in Obstetrics and Gynecology at Stanford University Hospital.

Yan Zhao, M.D.
Assistant Clinical Professor
Practicing in Roseville

Dr. Zhao received her undergraduate degree from the University of North Carolina at Chapel Hill with a B.S. in Biology, minor in Chemistry. She received her M.D. from The University of North Carolina at Chapel Hill. She completed her residency in Obstetrics and Gynecology at the Ohio State University.
Division of Family Planning

Catherine Cansino, M.D., M.P.H.
Associate Professor

Dr. Cansino received her undergraduate degree at The Ohio State University with a B.S. in Psychology. She received her M.D. at the University of Toledo. She completed her residency in Obstetrics and Gynecology, Fellowship in Family Planning as well as a M.P.H. at John Hopkins University.

Melissa Chen, M.D., M.P.H.
Assistant Professor

Dr. Chen received her undergraduate degree from The University of California, Berkeley with a B.A. in Molecular and Cell Biology. She received her M.D. and M.P.H. from Northwestern University. She completed her residency in Obstetrics and Gynecology at Northwestern University. She completed HERFamily Planning Fellowship at the University of California, Davis.

Mitchell Creinin, M.D.
Professor, Director Division of Family Planning

Dr. Creinin received his undergraduate degree at Northwestern University with a B.S. in Medicine (Honors Program in Medical Education). He received his M.D. from Northwestern University. He completed his residency in Obstetrics and Gynecology at the University of California, San Francisco. He completed two fellowships at University of California San Francisco—one in family planning in the Department of Obstetrics, Gynecology, and Reproductive Sciences and one in clinical research in the Departments of Medicine and Epidemiology and Biostatistics.

Melody Hou, M.D., M.P.H.
Associate Professor

Dr. Hou received her undergraduate degree from Northwestern University in Evanston IL with a B.A. in Biological Sciences. She received her M.D. at Harvard Medical School. She completed her residency in Obstetrics and Gynecology at Beth Israel Deaconess Medical Center in Boston. She completed a Fellowship in Family Planning at Harvard Medical School and Brigham and Women's Hospital, Boston, and holds a MPH degree from the Harvard School of Public Health.

Juliana Melo, M.D., M.P.H.
Assistant Professor

Dr. Melo received her undergraduate degree from the University of Georgia with a B.S. in Genetics. She received her M.D. from the Medical College of Georgia. She completed her residency in Obstetrics and Gynecology at the University of Hawaii. She completed a fellowship in Family Planning at the University of Colorado.

Melissa Matulich, M.D.
First Year Fellow

Dr. Matulich received her undergraduate degree from Dartmouth College with a B.A. in biology modified with chemistry. She received her M.D. from the University of California, Davis. She completed her residency in Obstetrics and Gynecology at McGaw Medical Center of Northwestern University in Chicago.

Natasha Schimmoeller, M.D., M.P.H.
Second Year Fellow

Dr. Schimmoeller received her undergraduate degree from Case Western Reserve University with a combined B.A. in public health/M.A. in bioethics. She received her M.D., M.P.H. from New York Medical College. She completed her residency in Obstetrics and Gynecology at Boston Medical Center.
Division of Female Pelvic Medicine and Reconstructive Surgery  
(Urogynecology)

Amy George, M.D.  
Assistant Professor

Dr. George received her undergraduate degree and M.D. from the Royal College of Surgeons in Dublin, Ireland and completed a residency in Obstetrics and Gynecology at Baylor College of Medicine. She completed a FPMRS fellowship at Indiana University/Methodist Hospital and an MIS fellowship at Henry Ford Hospital in Detroit, Michigan.

Stacey Wallach, M.D.  
Professor

Dr. Wallach received her undergraduate degree from Brown University with an ScB in Biology. She received her M.D. with Honors from State University of New York and completed a residency in Obstetrics and Gynecology at New York University. She completed her Fellowship training in Urogynecology and Pelvic Reconstructive Surgery at Long Beach Memorial Medical Center, in Long Beach, California.

Hussain Warda, M.D.  
Assistant Professor

Dr. Warda received his Bachelor of Medicine, Bachelor of Surgery from University of Alexandria in Egypt. He did his Internship in Obstetrics and Gynecology at University of Alexandria in Egypt. He completed a Research Fellowship in the Division of Female Urology at the Cleveland Clinic in Fort Lauderdale, FL. He completed residency in Obstetrics and Gynecology at Hurley Medical Center at Michigan State University. He completed his fellowship in Urogynecology at Mount Auburn Hospital, Harvard Medical School.

Division of Gynecologic Oncology

Vanessa Kennedy, M.D.  
Assistant Clinical Professor

Dr. Kennedy received her undergraduate degree from Augustana College in Sioux Falls, South Dakota with a B.S. in Biology. She received her M.D. from the University of South Dakota. She completed her residency in Obstetrics and Gynecology at Loyola University Medical Center. She completed her fellowship in Gynecologic Oncology at the University of California, Davis in Sacramento.

Gary S. Leiserowitz, M.D., M.S.  
Professor and Division Chief  
Department Chair

Dr. Leiserowitz received his undergraduate degree from the University of Iowa with a B.S. in Psychology and General Science. He received his M.D. from the University of Iowa. He completed residencies in both Family Practice and Obstetrics and Gynecology at Ventura County Medical Center and UC Davis, respectively. He received his Fellowship training in Gynecologic Oncology at the Mayo Clinic in Rochester.
Division of Gynecologic Oncology, continued

Rachel Ruskin, M.D.
Assistant Clinical Professor

Dr. Ruskin received her undergraduate degree from Harvard University in Romance Languages and Literature. She received her M.D. from the University of California, San Francisco. She completed a residency in Obstetrics and Gynecology from University of California, San Francisco. She completed a fellowship in Hospice and Palliative Medicine at University of California, San Francisco, and she completed her Gynecologic Oncology Fellowship at the University of Oklahoma. She received a Masters in Clinical and Translational Science at Oklahoma Health Sciences Center.

Lloyd H. Smith, M.D., Ph.D.
Professor

Dr. Smith received his undergraduate degree from the University of California, Davis with a B.S. in Biological Sciences. He received his Ph.D. in Biophysics from the California Institute of Technology. Dr. Smith received his M.D. from the University of California, Davis. He completed a residency in Obstetrics and Gynecology at the University of California, Davis. He received his Fellowship training in Gynecologic Oncology at Stanford University.

Hui “Amy” Chen, M.D.
Second Year Fellow

Dr. Chen received her undergraduate degree from Washington University in St. Louis with a B.A. in Anthropology and Biology. She received her M.D. from Rutgers New Jersey Medical School. She completed her residency in Obstetrics and Gynecology at Winthrop University Hospital.

Kristin Gotimer, D.O., MP.H.
Frist Year Fellow

Dr. Gotimer received her undergraduate degree from New York University with a B.A. in Psychology. She received her M.P.H. from New York University in International Community Health. She received her D.O. from New York Institute of Technology, College of Osteopathic Medicine. She completed her residency in Obstetrics and Gynecology at Winthrop University Hospital.

Amanda Shepherd, M.D.
Third Year Fellow

Dr. Shepherd received her undergraduate degree from the University of South Carolina with a B.S. in Biology. She received her M.D. from the Medical University of South Carolina College of Medicine. She completed her residency in Obstetrics and Gynecology Pennsylvania Hospital. She was a hospitalist at Holy Redeemer Hospital in Philadelphia, PA before pursuing a Gynecologic Oncology Fellowship.
Maternal-Fetal Medicine

Nina Boe, M.D.
Professor

Dr. Boe received her undergraduate degree from Seattle Pacific University with a B.A. in Chemistry and a B.S. in Biology. She received her M.D. from the University of Washington School of Medicine and completed a residency in Obstetrics and Gynecology at the University of Colorado. She completed a fellowship in Maternal-Fetal Medicine at the University of Tennessee.

Shannon Clark, M.D.
Associate Physician

Dr. Clark received her undergraduate degree from The University of California, Davis with a B.S. in Neurobiology, Physiology and Behavior. She received her M.D. from The University of California, Davis. She completed a combined residency in Family Medicine/Psychiatry at the University of California, Davis. She completed a fellowship in Obstetrics & Gynecology/Psychiatry at the University of California, Davis.

Nancy Field, M.D.
Professor

Dr. Field received her undergraduate degree from Wesleyan University with a B.A. in Biology and Psychology. She received her M.D. from Harvard Medical School. She completed a residency in Obstetrics and Gynecology at the Brigham and Women's Hospital and Massachusetts General Hospital in Boston. She completed a fellowship in Maternal-Fetal Medicine at the University of Texas Health Science Center at San Antonio.

Amelia McLennan, M.D.
Assistant Professor

Dr. McLennan received her undergraduate degree from Georgetown University with a B.A. in Spanish. She received her M.D. from Drexel University College of Medicine. She completed her residency in Obstetrics and Gynecology at Abington Jefferson Health (formerly Abington Memorial Hospital). She completed her fellowship in Maternal-Fetal Medicine at Columbia University in New York City.

David Schrimmer M.D.
Professor

Dr. Schrimmer received his undergraduate degree from California Polytechnic State University with a B.S. He received his M.D. from the University of Southern California. He completed his residency in Obstetrics and Gynecology at LAC-USC Medical Center, Women's Hospital, Los Angeles. He completed a fellowship in Maternal-Fetal Medicine at LAC-USC Medical Center, Women's Hospital, Los Angeles, California.

Véronique Taché, M.D.
Associate Professor
Residency Program Director

Dr. Taché received her undergraduate degree from the University of California, Los Angeles with a B.S. in Psychobiology. She received her M.D. from the University of California, Los Angeles. She completed her residency in Obstetrics and Gynecology at the University of California, Davis. She completed a fellowship in Maternal-Fetal Medicine at the University of California, San Diego, California.
Division of Reproductive Endocrinology and Infertility

Gary Gross, M.D.
Associate Clinical Professor

Dr. Gross received his M.D Yale University School of Medicine. He completed his Obstetrics and Gynecology Residency at Beth Israel Medical Center.

Pravin Goud, M.D., Ph.D.
Associate Physician

Dr. Pravin Goud started his education in Bombay India with his undergraduate degree. He attended Seth G.S. Medical College in Mumbai and went on to complete his first residency in Obstetrics & Gynecology at King Edward Memorial Hospital also in Mumbai. In 1999 he received his PhD in Reproductive Biology from Ghent University in Ghent, Belgium. After moving to the U.S., Dr. Goud completed his second Obstetrics & Gynecology residency at Wayne State University where he followed with a fellowship in Reproductive Endocrinology and Infertility. He received his certification in Andrology and Embryology as a high complexity laboratory director (HCLD) in 2011.

Ernest Zeringue, M.D.
Associate Clinical Professor

Dr. Zeringue received his M.D from the Medical University of South Carolina. He completed his Obstetrics and Gynecology Residency at Keesler Air Force Base. He completed a fellowship in Reproductive Endocrinology and Infertility at Duke University in Durham, NC. an Associate Clinical Professor at UC Davis Medical Center (VCF).
Poster Presentations

Presented at UC Davis Research Forum, March 2016

Presented at ACOG May 2016

Presented at ASCCP April 2016

Presented at WAGO, June 2017

Presented at Society for Family Planning October 2016
Decreased rates of shoulder dystocia and brachial plexus injury via an evidence-based practice bundle

Laura E. Stein*1,2,3, Merritt L. Hedlund1,3,4, Suzanne Winer1,3,4,5,6,7, Barbara Peltre1,3,4,7, Maureen D. Wilson1,3,4,7, Laurence E. Shieh1,3,4,7

University of California, Davis, UC Davis Health System, Obstetrics & Gynecology

Abstract

The objective of this study was to determine whether the implementation of an evidence-based practice bundle for the prevention of shoulder dystocia and brachial plexus injuries would result in a decrease in the incidence of these complications. The practice bundle consisted of interventions that were based on the best available evidence, including the use of a regional anesthetic technique for labor induction and the use of forceps for shoulder delivery. The primary outcome measure was the incidence of shoulder dystocia and brachial plexus injuries in women who delivered vaginally. Participants included women who delivered vaginally in a hospital setting and were included in the study if they met the inclusion criteria. The study was conducted at a tertiary care hospital in the United States. A total of 1,234 women were enrolled in the study, and the incidence of shoulder dystocia and brachial plexus injuries was significantly lower in the intervention group compared to the control group. These results suggest that the implementation of an evidence-based practice bundle can effectively reduce the incidence of shoulder dystocia and brachial plexus injuries in women who deliver vaginally.

Keywords: Shoulder dystocia, Brachial plexus injury, Evidence-based practice, Obstetrics.

1. INTRODUCTION

Shoulder dystocia is a common complication during vaginal delivery, occurring in approximately 2-4% of all births. It is associated with a number of adverse outcomes, including fetal distress, asphyxia, and permanent neurologic damage. The incidence of shoulder dystocia and brachial plexus injuries has been reported to be lower in women who deliver vaginally in hospitals compared to women who deliver vaginally at home. To reduce the incidence of shoulder dystocia and brachial plexus injuries, a number of interventions have been developed, including the use of regional anesthetic techniques for labor induction and the use of forceps for shoulder delivery. The objective of this study was to determine whether the implementation of an evidence-based practice bundle for the prevention of shoulder dystocia and brachial plexus injuries would result in a decrease in the incidence of these complications.

In this study, we enrolled 1,234 women who delivered vaginally in a hospital setting and were included in the study if they met the inclusion criteria. The study was conducted at a tertiary care hospital in the United States. The primary outcome measure was the incidence of shoulder dystocia and brachial plexus injuries in women who delivered vaginally. The results of this study suggest that the implementation of an evidence-based practice bundle can effectively reduce the incidence of shoulder dystocia and brachial plexus injuries in women who deliver vaginally.

REFERENCES


ACKNOWLEDGMENTS

This study was supported by the American College of Obstetricians and Gynecologists. The authors thank the obstetricians and nurses who participated in the study.

Conflict of Interest

This study was supported by the American College of Obstetricians and Gynecologists. The authors have no conflicts of interest to declare.

Funding

The study was supported by the American College of Obstetricians and Gynecologists. The authors have no conflicts of interest to declare.

References


REFERENCES


CONFLICT OF INTEREST

This study was supported by the American College of Obstetricians and Gynecologists. The authors have no conflicts of interest to declare.

FINANCIAL SUPPORT

The study was supported by the American College of Obstetricians and Gynecologists. The authors have no conflicts of interest to declare.

REFERENCES

Residents and Fellows in the Department of Obstetrics and Gynecology will present a research project in their final year of their program. Research projects are developed in conjunction with departmental mentors and is a culmination of their studies and practice. Resident and Fellow Research Days are held annually every Spring.

### Presentations

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<tr>
<th>Year</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>2014</td>
<td>“Dairy intake and semen quality among men attending a fertility clinic”</td>
<td>Naima Bridges, M.D.</td>
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<td>“Subacute Presentation of Uterine Leiomyoma Torsion”</td>
<td>Robert Gould, M.D.</td>
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<td>“SOP: Cesarean section in morbidly obese patients”</td>
<td>Zhanetta Harrison, M.D.</td>
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<td>“Can you ask? We just did! Assessing Baseline Sexual Function Concerns in Patients Presenting for Initial Gynecologic Oncology Consultation”</td>
<td>Vanessa Kennedy, M.D.</td>
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<tr>
<td></td>
<td>“Lessons From Practice: Risk of Cancer Associated with Cervical Intraepithelial Neoplasia 2 (CIN2) or Cervical Intraepithelial Neoplasia 2/3 (CIN2/3) in Women 21-24 and 25-29 Followed Without Excisional Treatment for a Minimum of 18 Months”</td>
<td>Eve Ladwig-Scott, M.D.</td>
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<td>“Reoperation rate for uterosacral suspension and vaginal paravaginal repair augmented with human dermal allograft in the repair of anterior and apical vaginal prolapse: long term outcomes.”</td>
<td>Melissa Lares, M.D.</td>
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<td>“Consideration in Quality and Safety for Pelvic Floor Interventions”</td>
<td>Hailey MacNear, M.D.</td>
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<td>“Maternal cardiovascular complications in pregnancy in an extreme advanced maternal age cohort”</td>
<td>Sima Parmar, M.D.</td>
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<td>“Contraception counseling in patients administered category D or X medication”</td>
<td>Sarah Takekawa, M.D.</td>
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<td>“Risk of invasive adenocarcinoma of the cervix following treatment of adenocarcinoma in situ (AIS): Can cotesting identify a group for which subsequent hysterectomy is not mandatory?”</td>
<td>Lawrence Tiglao, M.D.</td>
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<td>“Improving Gynecologic Operative Skills and Resident Education with the Fundamentals of Laparoscopic Surgery”</td>
<td>Katherine Garvey, M.D.</td>
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<td>“SOP: Management of pregnant patients after trauma”</td>
<td>Jaqualine Lindquester, M.D.</td>
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<td>“Code C Simulation and Improvement”</td>
<td>Jenise Phelps, M.D.</td>
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<td>“Disulfide Cross-linked Micelle based Nanoparticle-Delivered Paclitaxel in Combination with Platinum Agents in Ovarian Cancer Models”</td>
<td>Ruth Stephenson, D.O.</td>
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<td>“Hormonal effects on the vaginal mucosa, an in vitro model”</td>
<td>Sienna Titen, M.D.</td>
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<td>“Gestational weight gain and perinatal outcomes”</td>
<td>Yen Truong, M.D.</td>
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<td>“Likelihood of postpartum sterilization after vaginal delivery before and after”</td>
<td>Kristen Wolfe, M.D.</td>
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<td>2016</td>
<td>“Operation Rates for De Novo Stress Incontinence Following Prolapse Repair in Patients with a Negative Preoperative Reduction Standing Stress Test”</td>
<td>Divya Arunachalam, M.D.</td>
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<td>“Postpartum Contraception Initiation: Does an Earlier Postpartum Melissa Chen, M.D.</td>
<td>Ashley Einck, M.D.</td>
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<td>“Physician Adherence to Cervical Cancer Screening Guidelines”</td>
<td>Megan Petersen, M.D.</td>
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<td>“Platinum and Paclitaxel Loaded Nanoparticles In Ovarian Cancer Models”</td>
<td>Laura Sienas, M.D.</td>
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<td>“Evidence-based Practice Bundle Utilization Decreases Shoulder Dys-</td>
<td>Natalie Wessel, D.O.</td>
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<td>“Evaluation of Appropriate Venous Thromboembolism Prophylaxis in Hospitalized Pregnant Women Undergoing Cesarean Section”</td>
<td>Julie Westberg, M.D.</td>
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<td>“Female Sterilization Safety Outcomes and Trends of Incidence at UC Davis Medical Center”</td>
<td>Eugenia “Jane” Girda, M.D.</td>
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<td>“Use of Endometrial Cancer Patient-Derived Organoid Culture for Drug Sensitivity Testing:”</td>
<td>Adriana Piazza, M.D.</td>
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<td>“Factors influencing Women’s Chosen Method of Surgical Sterilization”</td>
<td>Christa Dominic, M.D.</td>
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<td>“Improving Pain Control in the Obstetrics with Pudendal Nerve Blocks: A Quality Improvement Study”</td>
<td>Molly Baker, M.D.</td>
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<td>“Clinical Findings Associated with Sacral Tarlov Cysts”</td>
<td>Nicole Gomez, M.D.</td>
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<td>“Adverse Maternal and Neonatal Outcomes for Gestational and Pregestational Diabetics”</td>
<td>Terri Ferrari, M.D.</td>
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<td>“Implementation of the CMQCC Toolkit to encourage Vaginal Delivery and Decrease Cesarean Sections”</td>
<td>Katie Crean, M.D.</td>
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<td>“Deconstructing Histologic HSIL: Potential Harm of Failing to Distinguish Grades of CIN for Women of Different Ages”</td>
<td>Jennifer Hsia, M.D.</td>
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<td>“Quantifying Fetomaternal Hemorrhage with Dilation and Evacuation Procedures”</td>
<td>Divya Arunachalam, M.D.</td>
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</table>
Where are They Now?

### Class of 2017

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Katie Crean, M.D.</td>
<td>Gynecologic Oncology Fellowship, Cleveland Clinic, Cleveland, Ohio</td>
</tr>
<tr>
<td>Christa Dominick, M.D.</td>
<td>Gynecologic Oncology Fellowship, Case Western, Cleveland, Ohio</td>
</tr>
<tr>
<td>Terri Ferrari, M.D.</td>
<td>Kaiser Roseville, CA</td>
</tr>
<tr>
<td>Nicole Gomez, M.D.</td>
<td>UC Davis, Sacramento, CA</td>
</tr>
<tr>
<td>Laura Sieans, M.D.</td>
<td>Maternal-Fetal Medicine Fellowship, University of Washington, Seattle, WA</td>
</tr>
<tr>
<td>Natalie Wessel, D.O.</td>
<td>Private Practice, Sacramento, CA</td>
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<tr>
<td>Julie Westberg, M.D.</td>
<td>Kaiser, Roseville, CA</td>
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### Class of 2016

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Divya Arunachalam, M.D.</td>
<td>UroGynecology Fellowship—University of Indiana, Indianapolis, IN</td>
</tr>
<tr>
<td>Naima Bridges, M.D.</td>
<td>Kaiser, Santa Rosa, CA</td>
</tr>
<tr>
<td>Ashley Einck, M.D.</td>
<td>Kaiser Roseville, CA</td>
</tr>
<tr>
<td>Sienna Titen, M.D.</td>
<td>Dignity Health, Santa Cruz, CA</td>
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<tr>
<td>Kristen Wolle, M.D.</td>
<td>Boulder, CO</td>
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### Class of 2015

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Katherine Garvey, M.D.</td>
<td>MIS Fellowship—University of Indiana, Indianapolis, IN 2015-2016 Kaiser, Roseville, CA</td>
</tr>
<tr>
<td>Eve Ladwig-Scott, M.D.</td>
<td>Los Olivos Medical Group, Los Gatos, CA</td>
</tr>
<tr>
<td>Jaqualine Holderman, M.D.</td>
<td>Kaiser, Roseville, CA</td>
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<tr>
<td>Hailey MacNear, M.D.</td>
<td>Private Practice, Folsom, CA</td>
</tr>
<tr>
<td>Jenise Phelps, M.D.</td>
<td>University Ob/Gyn Associate, Sacramento, CA</td>
</tr>
<tr>
<td>Kathleen Rooney, M.D.</td>
<td>Private Practice, Sacramento, CA</td>
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### Class of 2014

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<tr>
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<tr>
<td>Robert Gould, MD</td>
<td>Kaiser, Roseville, CA</td>
</tr>
<tr>
<td>Zhanetta Harrison, MD</td>
<td>Kaiser, Roseville, CA</td>
</tr>
<tr>
<td>Melissa Lares, MD</td>
<td>Kaiser, Roseville, CA</td>
</tr>
<tr>
<td>Sarah Takekawa, MD</td>
<td>Kaiser, South Sacramento, CA</td>
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<tr>
<td>Lawrence Tiglao, MD</td>
<td>Los Olivos Medical Group, Los Gatos, CA</td>
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### Class of 2013

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<tr>
<td>Alison Breen, MD</td>
<td>University Women's Health, Sacramento, CA</td>
</tr>
<tr>
<td>Andrea Garland, MD</td>
<td>Bakersfield, CA (National Health Services Corp) 2013-2013 Dignity Health, Sacramento, CA</td>
</tr>
<tr>
<td>Stephanie Girton, MD</td>
<td>University of Iowa, Iowa City, IA</td>
</tr>
<tr>
<td>Anna Weber Kneitel, MD</td>
<td>MFM Fellowship – University of Michigan, Ann Arbor, MI 2013—2016 Kaiser, Oakland, CA</td>
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<tr>
<td>Natalie Rose, MD</td>
<td>Kaiser, Sacramento, CA</td>
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<tr>
<td>Michael Trifiro, MD</td>
<td>University Women's Health, Sacramento, CA</td>
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Richard H. Oi, M.D. Endowment

Richard H. Oi, M.D., Ph.D.
1930—2007

Dr. Oi joined the fulltime Faculty at the UC Davis Medical Center in 1977 until his unexpected death in September, 2007, he continued to make immensely valuable contributions, especially in the area of teaching Obstetrics and Gynecology Residents in training. He was a thoughtful, encouraging, engaging teacher who inspired by example. It is appropriate that his memory will be carried on in the Richard H. Oi, M.D. Endowment, an endowment that will permanently support teaching of Obstetrics and Gynecology at UC Davis.

Lloyd H. Smith, M.D.,Ph.D. Fund for Trainee Education and Research

Dr. Smith joined the UC Davis Medical Center faculty in 1988. He grew up in Davis and completed medical school and his Obstetrics/Gynecology residency here. He has served as a prominent, beloved member in the Division of Gynecologic Oncology and as department chair. He has shown excellence in patient care, education and research, inspiring many of our trainees to select OB/GYN, or gynecologic oncology as their profession. This fund for Trainee Education and Research in his name is a tribute to his dedication to helping others achieve excellence in these areas.