ANNUAL REPORT

JULY 1, 2020 to JUNE 30, 2021

LEWIS KATZ SCHOOL OF MEDICINE AT TEMPLE UNIVERSITY

DEPARTMENT OF OBSTETRICS, GYNECOLOGY & REPRODUCTIVE SCIENCES

“EXCELLENCE IN SERVICE”
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We continued to have challenges in FY21 due to the COVID pandemic and a number of unexpected departures of some of our health care providers. At mid-year, for personal reasons, three of our faculty members moved to other states; one midwife retired; and another advanced practice nurse left our clinical practice. Fortunately, we were able to recruit a nurse midwife (Kathleen Nishida) to join our department in May 2021. Two other nurse midwives will be joining us in August (Melissa Landon) and September (Kristen Yoh). These three midwives will be joining Emma Dorsey, CNM to establish a midwifery practice at Temple Health. They will be working in the labor and delivery unit, postpartum unit and in our clinics.

Several physicians have been recruited to join our faculty in FY22. Dr. Emily Oliver will be joining the Division of Maternal-Fetal Medicine. She is a graduate of King’s College London School of Medicine. She has an MPH from Harvard School of Public Health. She completed residency in obstetrics and gynecology at The Ohio State Wexner Medical Center and a fellowship in MFM at the Sidney Kimmel Medical College at Thomas Jefferson University. Dr. Avita Pahwa joined the Division of Female Pelvic Medicine and Reconstructive Surgery (Urogynecology) in October 2020. She received her MD degree from UCLA where she also completed a residency in obstetrics and gynecology. She completed a 3-year fellowship in Female Pelvic Medicine and Reconstructive Surgery at the University of Pennsylvania. Drs. Clyatt, Huff and So will be joining the Division of General Gynecology and Obstetrics. Dr. Clyatt completed undergraduate studies (BA) at Harvard University. She is a graduate of the Perelman School of Medicine of the University of Pennsylvania. She did her residency in obstetrics and gynecology at Lankenau Hospital just outside of Philadelphia. Dr. Huff received a Bachelor of Arts (Biology) magna cum laude degree from Augustana College in Sioux Falls, SD. She graduated from the University of New England College of Osteopathic Medicine. She completed a residency in obstetrics and gynecology at Geisinger Medical Center in Danville, PA. Dr. So received a Bachelor of Science (Biology) from Villanova University. She completed her MD degree at Cooper Medical School of Rowan University. She completed a residency in obstetrics and gynecology at Cooper University Hospital.
Drs. Debra Somers and Gail Sullivan who are based at Temple University Hospital-Jeanes Campus joined our full-time faculty on July 1, 2021. As of July 1, 2021 our department assumed the responsibility of managing the Ob/Gyn practices previously managed by Temple Physicians, Inc. at the Jeanes Campus, Bustleton and Elkins Park.

The department faculty members participate in numerous intra- and extra-mural committees and hold multiple leadership positions. Eleven of our faculty members were listed in Philadelphia Magazine 2021 “Top Doctors”.

Our residency is a competitive fully approved 4-year program. We are approved to have six residents at each level plus a 7th non-categorical (preliminary) intern. In regards to recruitment, we continue to attract top tier applicants. We received 1072 applications for our six positions and interviewed 94 highly qualified applicants. We continue to match in the top quarter of our rank list. We successfully completed our last interview season via a virtual platform. Our gynecologic oncology fellowship is entering its seventh year. Our most recent graduating fellow joined the faculty of the University of Chicago.

In FY21 the medical school obstetrics and gynecology clerkship continued to evolve. The unprecedented time dictated the need for innovation, flexibility and creativity during which the faculty, residents and students all succeeded in providing a robust educational experience despite restrictions on normal patient care. In July, the students returned to clinical care under a newly modified 5-week clerkship. Despite the loss of one week of clinical time, the students still achieved great success in clinical and shelf exam performance. In FY21, in conjunction with the St. Luke’s campus, the LKSOM preclinical reproductive sciences curriculum was restructured for optimization of online learning and augmented with live chat groups and workshops. The success of the curriculum was demonstrated by the students’ USMLE Step 1 scores which were well above the national mean.

We continue to be a research site for several pharmaceutical industry-sponsored clinical trials. We continue to participate in NIH-funded Gynecologic Oncology Group (now NRG) clinical trials. We are also a member of the Perinatal Research Consortium. Our faculty continues to be academically productive with publications in peer-reviewed journals and presentations at national meetings, which are listed in this report.

The faculty clinical productivity through June 2021 was at 67.85 percentile of the MGMA benchmark, adjusted for clinical FTEs. The Department’s revenue and expense through June was very favorable, with a 25% positive variance to budget.

In FY21 there were 2251 obstetrical deliveries at TUH. The proportion of adolescent mothers continues to decrease. In FY21 6.3% of the mothers were younger than 19 years compared to 17% in FY06. Thirty-three percent of the obstetrical deliveries at Temple University Hospital in FY21 were by cesarean section. The most recent CDC data (2019) shows a 31.7% cesarean section rate nationally and 30.2% in Pennsylvania. In FY21 there were 5483 visits to our obstetrical triage unit. The complexity of the obstetrical cases continues to be high with over 1400 visits to our high-risk obstetrical service. Our perinatal diagnostic services continue to be busy with over 16,000 procedures performed at our Fetal Center in FY21 and another 1333 at
our satellites (Episcopal and Northeastern Ambulatory campuses). Just over 2600 patients received genetic screening or counseling in FY21.

In FY21, 1276 women underwent gynecologic surgery at Temple University Hospital (416 major and 860 minor procedures). This includes 121 major surgical procedures for suspected or documented gynecologic malignancies. Sixty-three abdominal, 168 laparoscopic and 35 trans-vaginal hysterectomies were performed. A total of 104 gynecologic surgical procedures were performed with robotic assistance at Temple University Hospital. There were 70 procedures for urinary incontinence and/or pelvic reconstructive surgery performed at Temple University Hospital in FY21. In addition to the laparoscopic hysterectomies, there were 49 operative laparoscopy procedures. We also performed 130 operative hysteroscopies and over 100 cystoscopies. There were also 145 surgical sterilizations. The full-time faculty also performs surgical procedures at Holy Redeemer Hospital, Jeanes Hospital and Chestnut Hill Hospital. In FY21, 23 robotic-assisted hysterectomies and 10 major open cases (laparotomy) were performed by our faculty at Chestnut Hill Hospital and 20 major cases at Holy Redeemer Hospital.

Third-year Ob/Gyn residents spent a 5-week block at the Fox Chase campus where they enhance their educational experience by being exposed to more surgical cases and to the care of hospitalized patients with complex medical situations. In FY21, 624 operations were performed by the gynecologic oncologists at the Fox Chase Cancer Center. Of these 424 were major surgical procedures to include 87 abdominal hysterectomies, 166 laparoscopic assisted vaginal hysterectomies and 25 robotic-assisted total laparoscopic hysterectomies.

In the months, years and decades to come we will continue to strive to completely fulfill our mission:
II. FACULTY

A. SUMMARY (as of September 2021)

Enrique Hernandez, MD, FACOG, FACS
J. Robert Willson Professor and Chairman

1. Clinical Faculty

Division of Gynecologic Oncology
Karen L. Houck, M.D., (Professor), Director
Enrique Hernandez, M.D. (Professor)

Division of Maternal-Fetal Medicine
Wadia Mulla, M.D. (Associate Professor), Director
John (Jack) FitzSimmons, M.D. M.B.A. (Associate Professor)
Laura Hart, M.D. (Assistant Professor)
Emily Oliver, M.D. (Assistant Professor)
Dimitrios Mastrogiannis, MD (Adjunct Clinical Professor)

Division of Reproductive Endocrinology and Infertility
Arthur Castelbaum, M.D. (Adjunct Assistant Professor), Co-director
Martin Freedman, M.D. (Adjunct Assistant Professor), Co-director

Urogynecology and Pelvic Reconstructive Surgery
Carol Glowacki, M.D. (Associate Professor), Director
Avita Pahwa, M.D. (Assistant Professor)

Division of Gynecology & General Obstetrics
Arlene Ayala, M.D. (Associate Professor), Interim Director
Tanise Branche, M.D. (Assistant Professor)
Divya Chillapalli, M.D. (Assistant Professor)
Bruce Carnivale, D.O. (Assistant Professor)
Julee Choi, M.D. (Assistant Professor)
Kylee Clyatt, M.D. (Assistant Professor)
Anagha Desai, M.D. (Adjunct Clinical Assistant Professor)
Gloria Diaz, M.D. (Assistant Professor)
Shaliz Dolan, M.D. (Associate Professor)
Emma Dorsey, CNM (Adjunct Clinical Instructor)
Michelle Duncan, M.D. (Associate Professor)
Isabel S. Eisner, M.D. (Assistant Professor)
Justin Gamez, M.D. (Assistant Professor)
Gail Herrine, M.D. (Professor)
Jessie Huff, D.O. (Assistant Professor)
Stacey Jeronis, M.D. (Professor), Associate Chair
Bruce Mabine, M.D. (Adjunct Clinical Assistant Professor)  
Deslyn Mancini, M.D. (Adjunct Clinical Assistant Professor)  
Patricia Mattingly, M.D. (Assistant Professor)  
Kathleen Nishida, CNM (Adjunct Clinical Instructor)  
Faith Pullinger, M.D. (Adjunct Clinical Assistant Professor)  
Marisa Rose, M.D. (Professor), Vice-Chair for Education  
Nishanth Sidduri, M.D. (Adjunct Clinical Assistant Professor)  
Samantha So, M.D. (Assistant Professor)  
Debra Somers, M.D. (Assistant Professor)  
Henry Su, M.D. (Adjunct Clinical Assistant Professor)  
Gail Sullivan, M.D. (Assistant Professor)  
Clinton Turner, M.D. (Adjunct Clinical Assistant Professor)  

Research  
Sarmina Hassan, MBBS., PhD (Adjunct Assistant Professor)  
Yukiko Washio, PhD (Adjunct Clinical Assistant Professor)  

Subtotal: 41

3. Secondary Appointments

Department of Internal Medicine  
Sharon Herring, M.D. (Associate Professor)  

Fox Chase Cancer Center, Behavioral Medicine  
Suzanne Miller, PhD (Professor)  

Subtotal: 2

4. Fox Chase Cancer Center Clinical Faculty

Stephen Rubin, M.D. (Adjunct Professor), Chief Gynecologic Oncology  
Christina Chu, M.D. (Adjunct Professor)  
Cynthia Bergman, M.D. (Adjunct Associate Professor)  
Stephanie King, M.D. (Adjunct Associate Professor)  
Gina Mantia-Smaldone, M.D. (Adjunct Associate Professor)  

Subtotal: 5

5. Adjunct Faculty

Capital Health (NJ)  
Crozer Keystone Health System  
Holy Redeemer Hospital  
Lancaster General Hospital  
Main Line Health Network
DIVERSITY AND FACULTY DEVELOPMENT

There are 26 full-time faculty members in the department of which 22 (85%) are women, 4 (15%) are Latinx and 3 (12%) are African American.

Four faculty members were promoted in 2021:

Dr. Arleen Ayala and Dr. Shaliz Dolan were promoted to Associate Professor.

Dr. Gail Herrine and Dr. Marisa Rose were promoted to Professor.

In FY21, we continued to improve our faculty development curriculum with the addition of new topics and events including:

- Diversity, Equity, and Inclusion Lecture Series and Workshops
  - Surgical care for the trans-gender patient
  - Mentoring Across Cultures
  - Holistic Approach to Residency Application Review
  - Implicit Racial Bias in Birthing and Reproductive Care Workshops – 3 sessions over FY21 – 22 by a local non-profit organization AccessMatters Training
  - Mentorship, Intersectionality & Promoting Allyship

- Perinatal Substance Disorder Training Sessions – an interdisciplinary training program with our MFM department and the Health Federation of Philadelphia

- Faculty Participation in Research Lecture Series – led by the Associate Dean for Research

- Healthy Workforce Initiative

- All faculty continue to be recognized as LGBTQ affirming providers after completing Safe-Zone Training and an annual GMLA Principles attestation

- Survey of Faculty on current and future content of faculty development

- Safety and Quality Lecture Series – now a quarterly lecture series by the Vice Chair for Quality and Safety
• Journal Club – quarterly presentation
• M+M – monthly presentations
• Wellness Series
  o Lectures and Workshops
  o New Faculty Wellness Committee in Department

These lectures and workshops were well attended and well received.

For FY22, we will continue our robust faculty development curriculum addressing diversity, inclusion, quality, safety, and teaching.

RESIDENT AND FACULTY WELLNESS

Resident and faculty wellness continue to be a top priority of our department. The residents continue to enjoy participating in the ACOG Wellness Week and the Annual Resident Team Building Retreat. During the retreat the faculty cover all in house and outpatient duties so that all residents can attend. We continue to carve out regularly assigned protected free time for residents and faculty to use for personal needs such as appointments and obligations that need to be done during work hours. All residents are given the opportunity and are encouraged to seek out preventive and acute care as needed, including during their working hours.

In addition to our departmental resident retreat, the residents also participated in the Spring the Trainees wellness time supported by the GME in place of the annual GME Wellness Retreat during this time of COVID. This was a huge success for both wellness and team building amongst the residents.

The faculty and residents were encouraged to explore and utilize the system wide resources such as Carebridge/EAP especially during these uncertain times of COVID. A special session was scheduled for the interns with Carebridge and Narrative medicine so they could share with one another the difficulties of adjusting to residency especially during COVID. A Carebridge counseling session was also offered to all residents in June.

This year per recommendations of the Institutional Practitioner Wellness committee, the Department of OB/GYN faculty wellness committee was formed where issues leading to faculty fatigue and burn out are addressed and shared with administration and leadership. This has been well received and new initiatives and action plans have been developed to address the wellness needs of the department.

For both the Faculty and Residents we continue to have regularly scheduled grand rounds sessions addressing well-being as well as encouraging faculty and residents to participate in the institutional sponsored wellness grand rounds.
Personal Wellness Time
Wed, February 3, 2021 7:30am – 10:30am

Departmental Wellness Grand Rounds - Strategies for Physician Wellness
March 31, 2021
Dr. Roschanak Mossabeb

Temple Tails – Therapy dogs to help combat pandemic blues
March 31, 2021

Mindfulness in the Modern World
October 26, 2020
Clif Smith, EAP

Winter Wellness Lecture– Navigating Overwhelming Times
December 16, 2020
Laura Van Dernott Lipsky, Trauma Stewardship

Spring Wellness Lecture - Overcoming Self-Judgment with Self Compassion
May 27, 2021
Dr. Alvarez, Stanford University

Mindfulness for the Healthcare Worker
April 6, 2021 – May 25, 2021
Dr. Heran, Providence Health

B. NEW FACULTY

Kylee Clyatt, MD

Dr. Clyatt joined our faculty in September 2021 after completing residency in obstetrics and gynecology at Lankenau Hospital outside of Philadelphia. She is a graduate of the Perelman School of Medicine of the University of Pennsylvania. She completed undergraduate studies (BA) at Harvard University.

Jessie Huff, DO

Dr. Huff joined our faculty in August 2021. She received a Bachelor of Arts (Biology) magna cum laude degree from Augustana College in Sioux Falls, SD. She graduated from the University of New England College of Osteopathic Medicine. She completed a residency in obstetrics and gynecology at Geisinger Medical Center in Danville, PA.
Emily Oliver, MD

Dr. Oliver joined our faculty in September 2021 after completing a Maternal-Fetal Medicine fellowship at the Sidney Kimmel Medical College at Thomas Jefferson University. She holds an MBBS degree from King’s College London School of Medicine. She has an MPH from Harvard School of Public Health. She completed residency in obstetrics and gynecology at The Ohio State Wexner Medical Center.

Avita Pahwa, MD

Dr. Pahwa is an expert in urogynecology. She joined the faculty in October 1, 2020 with a secondary appointment in the Department of Urology. She received her MD degree from UCLA where she also completed a residency in obstetrics and gynecology. She completed a 3-year fellowship in Female Pelvic Medicine and Reconstructive Surgery at the University of Pennsylvania.

Samantha So, MD

Dr. So joined our faculty in August 2021. She received a Bachelor of Science (Biology) from Villanova University. She completed her MD degree at Cooper Medical School of Rowan University. She completed a residency in obstetrics and gynecology at Cooper University Hospital.

Debra Somers, MD

Dr. Somers is a graduate of Jefferson Medical College. She completed a residency in Ob/Gyn at Western Pennsylvania Hospital. She had been on the medical staff of Jeanes Hospital and employed by Temple Physicians, Inc, since 1997. On July 1, 2021 she joined our full-time faculty.

Gail Sullivan, MD

Dr. Sullivan is a graduate of the Medical College of Pennsylvania where she also completed a residency in Ob/Gyn. She had been on the medical staff of Jeanes Hospital and employed by Temple Physicians, Inc, since 2013. On July 1, 2021 she joined our full-time faculty.

C. FACULTY DEPARTURES

Juan Diaz, MD

Accepted a position at the University of Miami as Vice-Chair of Obstetrics and Gynecology.
Claire Faggons, MD

Moved to a private clinical practice in Maine.

Leah Roberts, MD

Moved in January 2021 when she was accepted to a Reproductive Endocrinology and Infertility fellowship.

Kathryne Sanserino, MD

Moved with her husband (a general surgeon) to Stanford University School of Medicine.

D. HONORS/PRIZES

Cynthia Bergman, MD

Listed in Philadelphia Magazine “Top Doctors” 2021

Christina Chu, MD

Listed in Philadelphia Magazine “Top Doctors” 2021
Oral Examiner American Board of Obstetrics and Gynecology

Arthur Castelbaum, MD

Listed in Philadelphia Magazine “Top Doctors” 2021

Juan Diaz, MD

Listed in Philadelphia Magazine “Top Doctors” 2021
Al Dia (newspaper) Top Doctor 2021
Board of Trustees Society of Ibero-Latin American Medical Professionals
Oral Examiner American Board of Obstetrics and Gynecology

Isabel Salinas Eisner, MD

Association of Professors of Obstetrics and Gynecology Excellence in Teaching Award and Council of Resident Education in Obstetrics and Gynecology Award for Excellence in Resident Education

Carol Glowacki, MD
Listed in Philadelphia Magazine “Top Doctors” 2021

Martin Freedman, MD

Listed in Philadelphia Magazine “Top Doctors” 2021

Gail Herrine, MD

Listed in Philadelphia Magazine “Top Doctors” 2021
American College of Obstetricians and Gynecologists Representative to the United States Breastfeeding Committee
Board of Directors, Academy of Breast Feeding Medicine

Enrique Hernandez, MD

Board of Directors American Cancer Society, Philadelphia Area
Board of Directors Philadelphia County Medical Society and the Society’s Pfahler Foundation
Board of Regents American College of Surgeons
Listed in Philadelphia Magazine “Top Doctors” 2021

Karen Houck, MD

Listed in Philadelphia Magazine “Top Doctors” 2021

Stephanie A. King, MD

Listed in Philadelphia Magazine “Top Doctors” 2021

Stephen Rubin, M.D.

Listed in Philadelphia Magazine “Top Doctors” 2021
Board of Directors, American Board of Obstetrics and Gynecology

III. RESEARCH

A. Research Grants

1. Peer-Reviewed

Arleen Ayala-Crespo, MD
Principal Investigator at Temple: Social Media as a Mechanism for Social Support in Vulnerable Urban Communities of Childbearing Latinas: 2017 to present.

Principal Investigator with Temple Public Health: Prenatal *Mycoplasma genitalium* prevalence and impact on gestational age of delivery. Jan 2021-present
**Enrique Hernandez, MD**  
Principal Investigator at Temple 17-102: A Phase 2 Study of Single Agent ONC201 in Recurrent or Metastatic Endometrial Cancer: 2018 to present.

Principal Investigator at Temple for Gynecologic Oncology Group clinical trials (per capita funding): July 2000 to present.

**Gail Herrine, MD**  
Principal Investigator: Evaluation of a personalized platform to pain management by characterizing opiate use patterns and habit-forming behavior in patients undergoing Repeat Cesarean Section. Jan 2020 to present

Principal Investigator Decreasing opioid misuse and habit-forming behaviors following prescription in patients undergoing Cesarean Section  
Sponsor: NIH ON DRUG ABUSE, April 2021 to present

**Laura Hart, MD**  

**Wadia Mulla, MD**  
Principal Investigator for Perinatal Research Consortium (PRC) Grant: Optimization of Management of Type 2 Diabetes Complicating Pregnancy (MOMPOD): Feb 2018 to present.

Principal Investigator for Perinatal Research Consortium (PRC) Grant: “Cerclage Retention vs. removal in PPROM: A Randomized Controlled Trial (CORRECT). NIH R01 Submitted Jun 2021

Principal Investigator for Perinatal Research Consortium (PRC) Grant: A Dose Escalation Study of Low Dose Aspirin for the Prevention of Recurrent Preterm Birth.” NIH, Submitted Mar 2021

Principal Investigator for Perinatal Research Consortium (PRC) Grant: Randomized Trial of Chlorhexidine vs Povidone-Iodine for Post-Cesarean Infection. NIH, Submitted, Jun 2020

Principal Investigator for Perinatal Research Consortium (PRC) Grant: A Dose Escalation Study of Low Dose Aspirin for the Prevention of Recurrent Preterm Birth. NICHD submitted, Feb 2021

Principal Investigator for Perinatal Research Consortium (PRC) Grant: Modeling informatics data to track maternal risk and care quality. NIH, Submitted, Jun 2020


Sub-Investigator for PCORI Grant: COVID-19 Vaccine Hesitancy and Health Outcomes in Pregnant Women with Diverse Backgrounds. Submitted, May 2021

**Marisa Rose, MD**

Principal Investigator: ACE Scores in Pregnancy in an Inner-City Clinic: A Pilot Study. Oct 2020 to present.

2. *Commercial/Industrial/Governmental*

**Enrique Hernandez, MD**

Principal Investigator: YO39523: A Phase III, Multicenter, Randomized, Study of Atezolizumab Versus Placebo Administered in Combination with Paclitaxel, Carboplatin, And Bevacizumab to Patients with Newly-Diagnosed Stage III or Stage IV Ovarian, Fallopian Tube, or Primary Peritoneal Cancer. Oct 2017 to present.

Sub-Investigator: A Phase 3b Randomized Double-blind, Placebo Controlled, Multicenter Study to Evaluate the Efficacy and Safety of Gefapixant in Women with Chronic Cough and Stress Urinary Incontinence. Jan 2020-Mar 2021

**Gail Herrine, MD**


Principal Investigator: Prenatal Expression of Breastmilk to Help Increase Initiation and Exclusive Breastfeeding Rates. Jan 2020 to present

Principal Investigator: Focus Groups for Breastfeeding and Prenatal Hand Expression of Breastmilk. Jan 2020 to June 2021

**Laura Hart, MD**

Principal Investigator: ADVIA Centaur® Systems Preeclampsia Assays OUS Clinical Trial Specimen Collection Protocol. (SIEMENS). Nov 2020 to present

Principal Investigator: C3671008: A Phase 3, Randomized, Double-Blinded, Placebo-Controlled Trial to Evaluate the Efficacy and Safety of a Respiratory Syncytial Virus (RSV) Prefusion F Subunit Vaccine in Infants Born to Women Vaccinated During Pregnancy (Pfizer). Nov 2020 to present

**Wadia Mulla, MD**

**Resident/Student Research**

Analysis of treatment protocols for endometrial carcinosarcoma on clinical outcomes in high-risk populations. Feb 2018-present

Barriers to health in the Hispanic community of Philadelphia compared to African-Americans. Feb 2020-present


Maternal Barriers to Postpartum Glucose Testing Follow Up in patients with Gestational Diabetes during Pregnancy. May 2020-present

Immunohistochemical profile (p16, p53, PTEN) of low-grade endometrioid cancers of the endometrium. Nov 2018-present

Investigation of specific risk factors leading to peri-partum Venous Thromboembolism. July 2019-present

Knowledge, attitudes, and beliefs of Human Papilloma Virus Vaccine among women in a colposcopy (cervical dysplasia) clinic. Dec 2020-present

B. Total Research dollars expended: $159,153

C. DEPARTMENT MEMBERS SERVING AS GRANT/AWARDS REVIEWERS

None in FY21

D. Journal Reviewers/Editorial Board

- American Journal Obstetrics and Gynecology
- Annals of Oncology
- Obstetrics and Gynecology
- Gynecologic Oncology (Dr. Rubin is Deputy Editor; Dr. Chu is on the Editorial Board)
- International Journal of Gynaecology and Obstetrics
- European Journal of Obstetrics, Gynecology and Reproductive Biology
- Obstetrics and Gynecology International (Editorial Board, Dr. Hernandez)
- Topics in Obstetrics and Gynecology (Editorial Board, Dr. Hernandez)
- International Journal of Gynecologic Cancer
- Medical Journals, Gynecology and Obstetrics: Open Access (Editorial Board, Dr. Hernandez)
TEACHING PROGRAM

1. Medical Students

This program is directed by Dr. Marisa Rose with Dr. Shaliz Dolan as the Associate Clerkship Director. The site program directors contribute to program development, and other related matters. The final examination is given in the standardized format (shelf-exams). The students' performance in OB/GYN/Reproductive System in the USMLE is consistently at or above the national average, and residency placement is outstanding.

Clinical Affiliates Used for Teaching Medical Students

<table>
<thead>
<tr>
<th>Campus</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temple</td>
<td>Dr. Marisa Rose</td>
</tr>
<tr>
<td>Holy Redeemer</td>
<td>Dr. Lauren Maher</td>
</tr>
<tr>
<td>Lancaster</td>
<td>Dr. Kathryn Abello</td>
</tr>
<tr>
<td>Main Line</td>
<td>Dr. Catherine Bernardini</td>
</tr>
<tr>
<td>St. Luke’s</td>
<td>Dr. James Anasti</td>
</tr>
<tr>
<td>Crozer</td>
<td>Dr. Alison Rodriguez</td>
</tr>
</tbody>
</table>

a) Program Accomplishments:

1. In FY21, the unprecedented time dictated the need for innovation, flexibility and creativity during which the faculty, residents and students all succeeded in providing
a robust educational experience despite restrictions on normal patient care. In July, the students returned to clinical care under a newly modified 5-week clerkship. Despite the loss of one week of clinical time, the students still achieved great success in clinical and shelf exam performance.

2. In FY21, in conjunction with the St. Luke’s campus, the LKSOM preclinical reproductive sciences curriculum was restructured for optimization of online learning and augmented with live chat groups and workshops.

3. In FY21, continued improvements were made to the clinical skills session in the William Maul Measey Institute for Clinical Simulation and Patient Safety. This session provides the opportunity for students to work with standardized patients to hone their skills in taking a sensitive obstetrical and gynecologic history, performing the intimate breast and pelvic examinations, and giving a succinct and accurate oral presentation of a well-woman visit.

4. FY21 saw the continuation of a novel online discussion board for using bioethical principles with evidence based medicine to sort through controversial topics in Ob/Gyn.

5. In FY21, a new state-of-the-art web-based module was developed by one of our MS-4 students and posted to Canvas to train the MS-3 Clerkship students on interpreting and treating fetal heart tone patterns. Canvas links also continue to provide access to the outstanding educational and training modules on Domestic Violence for Medical Professionals, pelvic anatomy and vaginal deliveries. The web-based self-study modules and practice questions provided by the Association of Professors of Obstetrics and Gynecology are available to all our students.

6. In FY21, the department continued to offer exclusive LKSOM videos to introduce students to the steps of a vaginal delivery and the well woman exam.

7. In FY21, the Canvas site was again updated to provide a central clearinghouse for all students enrolled in the MS-3 Ob/Gyn Clerkship. Links to the course syllabus, clerkship objectives, orientation training, educational materials, lecture slides, discussion groups, and online learning modules ensure comparability in student education between sites.

8. A longitudinal faculty outpatient experience for the MS-3 clerkship was piloted in 2015 and rolled out in 2016 and continues to be a success in 2020-21. Faculty members from the Lewis Katz School of Medicine at Temple University participate at multiple office sites.

9. In FY21 all didactic sessions were given via teleconference which allowed for more student participation from distant clinical sites. Faculty members from LKSOM lead the core lecture series every Friday afternoon.

10. Eleven LKSOM students were accepted into an Obstetrics and Gynecology residency in 2021:

<table>
<thead>
<tr>
<th></th>
<th>Covington (Bell), Amber</th>
<th>St Lukes Hosp-Bethlehem-PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Chen, Sally</td>
<td>Kaiser Permanente-Santa Clara-CA</td>
</tr>
<tr>
<td>3</td>
<td>Fuhrman, Sara</td>
<td>Temple Univ Hosp-PA</td>
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<tr>
<td>4</td>
<td>Lee, Eunjae</td>
<td>Lankenau Med Ctr-PA</td>
</tr>
<tr>
<td>5</td>
<td>Lin, Annie</td>
<td>Rutgers-Newark Beth Israel Med Ctr- NJ</td>
</tr>
<tr>
<td>6</td>
<td>Lobitz, Gabriella</td>
<td>Rutgers-R W Johnson Medical School NJ</td>
</tr>
</tbody>
</table>
b) Program Course Offerings:
The following electives are available at Temple University Hospital and other LKSOM affiliates:

i) Temple University Hospital:
   Women’s Health
   Gynecologic Oncology
   Maternal Fetal Medicine
   Obstetrics and Gynecology Sub-internship
   Urogynecology

ii) Holy Redeemer Hospital:
    Reproductive Endocrinology & Infertility

iii) St. Luke’s Hospital:
    Maternal Fetal Medicine
    Gynecologic Oncology
    Urogynecology
    Obstetrics and Gynecology Sub-internship

iv) West Penn Medical Center:
    Gynecologic Oncology
    Maternal Fetal Medicine
    Reproductive Endocrinology
    Obstetrics and Gynecology Sub-internship

v) Fox Chase
    Gynecologic Oncology

2. **Department of OB/GYN/RS’s Involvement with Other Professional Programs**

a. Internal Medicine of Temple University Hospital residency program spends time in our clinics. Emergency Medicine residents spend time in the labor and delivery unit.

b. Training site for University of Pennsylvania Master of Genetic Counseling program.
c. Temple University Physician Assistant Program. Students are integrated into the medical clerkship through an innovative curriculum supporting inter-professional education and collaboration.

d. Clinical training site for nurse practitioner students from Temple University’s doctor in nursing program

3. **Fellowship training**

Fellowship Program in Gynecologic Oncology

Our fellowship program is entering its seventh year. Christina Chu, MD, the Program Director, receives assistance from Karen Houck, MD. The fellowship spans the campuses of Temple University Hospital and the Fox Chase Cancer Center, combining the resources of a busy inner city academic hospital with an NIH designated comprehensive cancer center to provide excellent and diverse educational experience for the fellows. We accept one fellow each year through the Match. The program is 3 years, with the first year being dedicated to research activities. The second and third years of the fellowship consist of monthly clinical rotations divided between the Fox Chase and Temple campuses. In addition to surgical cases and in/outpatient gynecologic oncologic care, fellows participate fully in the prescribing and ordering of chemotherapy, as well as consultation and planning for radiation therapy. Two off-service rotations on the Gastrointestinal Surgery Service at Fox Chase and the Surgical Intensive Care Unit at Temple University Hospital round out the fellows’ clinical training.

The Fellows have protected didactic lectures once a week on average. In addition, they are the primary presenters at weekly Tumor Boards at both Temple and Fox Chase. Our Divisions have monthly joint tumor board as well as quarterly joint journal clubs.

Due to the COVID-19 pandemic, training remained challenging for our fellows. However, surgical volumes began to return to more normal levels. Our 2021 graduate, Dr. Jocelyn Ray went on to take a faculty position at the University of Illinois, Chicago. Our rising senior fellow is Dr. Amaranta Craig. She completed her residency at UCSF, and spent her research year working with Denise Connolly, PhD. Her project examines the genesis of primary tumors arising in DR26, DG61 and DR12 mice, hypothesizing that they originate in oviductal epithelium, and that there are inherent differences between each transgenic line that may contribute to variation in tumor latency and ability to disseminate to the ovary and beyond. Dr. Erica Huelsmann, who completed her residency at Georgetown, is our second year fellow. She completed her year in the lab of Neil Johnson, PhD, working on a project analyzing DNA repair protein expression in BRCA1 and BRCA2 mutant breast and ovarian cancers. Our newest fellow is Dr. Arielle Weiss, who comes to us from the University of Washington. She, too, will be spending her research year in Dr. Johnson’s lab.
Temple residents and medical students spend time at Fox Chase. In addition, fourth year medical students can do a gynecologic oncology elective at Fox Chase. Though the students were on a hiatus during the worst of the COVID pandemic, they returned to clinical rotations in May 2020. Fox Chase Cancer Center provides our medical students with a worthwhile choice for their core and sub-internship rotations. For residents, the goal is to enhance their educational experience by providing more surgical cases and exposure to the care of complex inpatients, and also to build the fellows’ leadership and teaching abilities as they supervise the junior housestaff and students in the inpatient, as well as operative settings.

4. Residency Program

Leadership

Dr. Stacey Jeronis is going into her 10th year as the Program Director of the Obstetrics and Gynecology residency program. This brings a great deal of stability within the leadership of the program while allowing for constant change and growth within the residency program itself. Our program is fully accredited and consistently remains citation free with the annual RRC review.
Dr. Marisa Rose acts as the Associate Program Director and Vice Chair of Education. She remains responsible for the educational curriculum and organizing the educational conferences. She also serves as the student clerkship director and is a strong advocate of residents serving as teachers. There continues to be a noteworthy increase in the number of medical students entering the match for obstetrics and gynecology in the recent years which can be directly attributed to the cultural change and emphasis on well-being by both Dr. Rose and Dr. Jeronis.

Dr. Tanise Branche acts as the Associate Program Director with emphasis on clinical affairs and development. Dr. Branche is an enthusiastic clinical educator and is deeply appreciated and respected by the residents. She is involved in their weekly conference didactic series and has earned the CREOG national teaching award in the past for her efforts.

Dr. Arleen Ayala is the Director of our clinical simulation program with monthly educational sessions in the simulation center and is in charge of FLS training and certification with the assistance of Dr. Divya Chillapalli.

Dr. Karen Houck is the Associate Program Director of the Gynecologic Oncology fellowship and serves as the director at the Temple University Hospital site.

Our residency is a competitive fully approved 4-year program. We are approved to have six residents at each level plus a 7th non-categorical (preliminary) intern. In regards to recruitment, we continue to attract top tier applicants. We received 1072 applications for our six positions and interviewed 94 highly qualified applicants. We continue to match in the top quarter of our rank list. We successfully completed our last interview season via a virtual platform.

Clinical

At Temple University Hospital the OB/GYN residents rotate through Obstetrics, Maternal-Fetal Medicine, Gynecology, Urogynecology, Night Float and Gynecologic Oncology. At Fox Chase Cancer Center and Jeanes campus they gain additional experience in Gynecologic Surgery (with emphasis in minimally invasive gynecologic surgery). The residents also gain invaluable exposure to Reproductive Endocrinology and Infertility at RMA Philadelphia with Drs. Castlebaum and Freedman. Exposure to pregnancy terminations occurs at Temple University Hospital and at the Philadelphia Women’s Center. We also have a very busy Family Planning Clinic.

Program Quality and Assessment

We continue to monitor the quality of our program through both the resident and faculty surveys administered by the ACGME. We use these surveys to make continued yearly adjustments and improvements to the program. We appreciate and encourage the input and feedback from both residents and faculty to continually promote growth and change within the department for constant improvement.
Program Quality – ACGME Annual Resident Survey

Education and Research

Formal education presentations are held on Wednesday mornings from 7:30am to 10:30am to include Grand Rounds, Morbidity and Mortality Review, Journal Club, and Case Presentations. Third hour presentations typically involve review of ACOG practice bulletins and Chapter reviews from standard textbooks. The Gynecology Tumor Board meets every
Wednesday from 10:30am to 12:00pm. Chairman’s rounds are on Tuesdays at 7:00am.

On December 7, 2020, we held (virtual and in person) our 60th Annual Isador Forman Post Graduate Course which is funded by the Forman family. Our visiting lecturer was David Guzick, MD, PHD. Dr. Guzick is Professor of obstetrics and gynecology, and of Health Services Research at the University of Florida. He is former Senior Vice President for Health Affairs University of Florida and former President University of Florida Health System. He is the author of a book entitled, The U.S. Health Care Industry: Balancing Care, Cost and Access, published in 2020 by the Johns Hopkins University Press.

At this meeting our senior residents presented their research theses, which are listed below.

Miriam AIOUB, MD
Molecular Sequencing Patterns for Serous Endometrial Carcinoma Tumors with Early Recurrence versus those without Early Recurrence

Molli BASCOM, DO
Pregnancy Related Venous Thromboembolism in Black Women

Olga MUTTER, MD
A National Obstetrics and Gynecology Residency Education Curriculum: National Needs Assessment

Shira SAPERSTEIN, MD
Maternal Barriers to Postpartum Glucose Tolerance Testing follow up in patients with Gestational Diabetes

Molli SINGER, MD
Patient Controlled Epidural Analgesia for Post-Caesarean Pain Management in Women with Opioid Use Disorder: A Pilot Retrospective Analysis

Melissa YURKANIN, DO
Evaluation of Patients with Postoperative Issues After Outpatient Laparoscopic Sterilization Procedures

Dr. Shira Saperstein was the recipient of the Best Resident Research Award for 2021.

Quality and Performance Improvement Program
We have a robust Quality and Performance Improvement program. One-hundred percent of our residents participate in a team-approach quality improvement project each year and it is currently a requirement for the PGY 4 residents to successfully complete and present at our educational conference prior to graduation. We continue to incorporate aspiring medical students interested
in entering obstetrical and gynecology as a career along with a faculty mentor into the team. There is an expectation that these projects will be submitted for conference presentations many of which have been accepted for presentation at national conferences.

**Quality and Performance Improvement Projects FY 20/21:**

- Developing a Protocol for Extended PCEA Use in the Post-Cesarean Period for Women with Opioid Use Disorder – Team Singer
- Effect of anti-racist bias training on implicit bias among faculty and residents – Team Bascom
- Implementation of a Surgical Video Workshop to Increase Resident Involvement with Surgical Videos – Team Mutter/Yurkanin
- Improving physician compliance with postpartum 2h GTT ordering and therefore improving patient testing. A pilot study. – Team Saperstein
- Development and Implementation of a Robotic Surgery Training Curriculum – Team Aioub

**Academic profile**

We encourage faculty and residents to participate in scholarly activities and research within our department and hold monthly research meetings to help facilitate this process. There is significant scholarly activity among residents with several publications in peer-reviewed journals and multiple presentations at national meetings.

**PRESENTATIONS Academic year July 1 2020 to June 30, 2021**


**Liu A**, Chen S, **Herrine G**, Washio Y. Prenatal expression of breastmilk to help increase initiation and exclusive breastfeeding rates (poster) American College of Obstetricians and Gynecologists Annual Meeting (virtual) April 2021

**Publications July 1, 2020 to June 30, 2021**


**Residency Program at a Glance**

We continue with ACGME Full Accreditation for our now 24 categorical and 1 preliminary position. We were recently approved to increase our resident compliment allowing us to offer enhanced educational rotations. We continue to work hard to not only educate and train future obstetricians and gynecologists but we also strive to find the perfect life work balance.

**Future Plans**

Our top priorities in the department continue to be resident education in a caring and supportive environment. The sixth annual resident retreat is scheduled for September 2021. During this
retreat the residents will focus on team building, conflict resolution as well as mindfulness to enhance their overall educational experience both clinically and professionally. This will be done in a safe social distancing format. We continue to support and promote the ACOG annual wellness week with daily activities to promote intellectual and emotional health which has evolved into an annual curriculum.

Additional areas of improvement in the past academic year included:

**2021 Clinical Considerations lecture series**

The educational experience of our residents is strongly rooted in their clinical rotations and augmented by our Wednesday educational lecture series. Our residents continue to have a three-hour block of dedicated educational time for grand rounds and educational lecture series. This year we will continue with the series titled ‘Clinical Considerations’. Each session, residents practice verbalizing their clinical assessment, counseling and management plans in reference to patients in structured cases presented to them. This lecture style format fosters excellent attending and resident group discussion on current ACOG guidelines. The success of this program is demonstrated in our continued above average scores on our national in-service CREOG examination and board pass rate.

**Health Equity and Diversity**

Temple’s Obstetrics and Gynecology residency program recognizes the enlarging gap of health inequity in our underserved community and is committed to eliminating disparities in women’s health. One of the first steps to doing this centers around confronting implicit and explicit bias institutionally as well as individually. This means recognizing and examining our own prejudice and bias and addressing the way in which health care systems perpetuate inequality. This year we have partnered with Access Matters, a non-profit, public health organization located in Center City Philadelphia, who envisions a future where every person has the health care and information they need to thrive. In service to that vision, Access Matters’ mission is to protect, expand, and enhance equitable access to sexual and reproductive health care and information for all people.

We are participating in a three-part series: Implicit Racial Bias in Birthing and Reproductive Health Care – to help drive better pregnancy and birth outcomes in Philadelphia, and to decrease – and eventually eliminate - racial disparities in pregnancy- associated deaths.

**Resident and Faculty Wellness Initiatives**

The residents continue to participate in the ACOG Wellness Week in spring 2021. This year, Wellness Wednesdays have been implemented to dedicate one hour sessions to personal growth and burnout prevention. Additionally, the residents all participate in the hospital wide GME wellness day and continue to plan social events that are open to residents and their support persons to promote camaraderie.
- Resident Retreat 10/23/20
- GME Wellness Time 2/3/21
- GME Spring the Trainees 5/14/21
- Grand Rounds - Strategies for Physician Wellness - Dr. Mossabeb
- Narrative Medicine and Carebridge Session for Interns
# Graduating Residents and Fellow June 2021

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Affiliation</th>
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<tbody>
<tr>
<td>Miriam Aioub, MD</td>
<td>Clinical Instructor Rutgers Robert Wood Johnson Medical School</td>
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<tr>
<td>Molli Bascom, DO</td>
<td>OBGYN Generalist attending Pennsylvania Hospital</td>
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<tr>
<td>Olga Mutter, MD</td>
<td>MIGS Fellowship Vanderbilt University</td>
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<tr>
<td>Shira Saperstein, MD, MPH</td>
<td>OBGYN Generalist attending Oregon Health Science University</td>
</tr>
<tr>
<td>Molly Singer, MD</td>
<td>OB Hospitalist Fellowship Baylor College of Medicine</td>
</tr>
<tr>
<td>Melissa Yurkanin, DO</td>
<td>Private Practice Virtua Health OB/GYN</td>
</tr>
<tr>
<td>Jocelyn Ray, MD</td>
<td>Gyn Oncologist Attending University of Illinois at Chicago</td>
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# Incoming Interns June 2021

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Michelle Benassai, MD</td>
<td>University of Rochester</td>
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<tr>
<td>Sarina Dutta, MD</td>
<td>Tufts University</td>
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<tr>
<td>Claudia Flores, MD</td>
<td>Rutgers New Jersey</td>
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<tr>
<td>Sara Fuhrman, MD</td>
<td>Lewis Katz School of Medicine at Temple</td>
</tr>
<tr>
<td>Brian Goddard, MD</td>
<td>New York University</td>
</tr>
<tr>
<td>Melanie Levine, MD</td>
<td>University of Pittsburgh</td>
</tr>
<tr>
<td>Daphney Noel, MD</td>
<td>Rutgers New Brunswick</td>
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V. GRAND ROUNDS

GRAND ROUNDS PROGRAM
Marisa Rose, MD, Grand Rounds Director
Continuing Medical Education (CME) Program 2020-2021

Care and Treatment of Women Impacted by Opioid Use Disorder
When: Wed, July 1, 2020, 7:30am – 8:30am
Dr. Laura Hart

Introduction to GYN Clinic
When: Wed, July 1, 2020, 8:30am – 9:30am
Dr. Molli Bascom & Dr. Olga Mutter

Interdisciplinary M&M: Congenital Syphilis
When: Wed, July 8, 2020, 7:30am – 8:00am
Dr. Keri Fugarolas

Neonatal T Cell Function: Implications for Early Life Infection
When: Wed, July 8, 2020, 8:00am – 8:30am
Dr. Allison Carey

Introduction to OB Clinic
When: Wed, July 8, 2020, 8:30am – 9:30am
Dr. Sean Oldak & Dr. Richa Pursnani

New ASCCP Guidelines for Screening and Management of Cervical Neoplasia
When: Wed, July 15, 2020, 7:30am – 8:30am
Dr. Enrique Hernandez, MD

Anatomy (pelvic floor & abdominal wall)
When: Wed, July 15, 2020, 8:30am – 9:30am
Dr. Angela Liu & Dr. Melissa Yurkanin

Simulation Lab
When: Wed, July 22, 2020, 7:30am – 9:30am
Dr. Arleen Ayala

Journal Club
When: Wed, July 29, 2020, 7:30am – 8:30am
Dr. Melissa Danko & Dr. Sean Oldak
Steps to Common Procedures (CS, hysterectomies, consenting/counseling)
When: Wed, July 29, 2020, 8:30am – 9:30am
Drs. Miriam Aioub & Shira Saperstein (PGY4)

Social Media: 7 Reasons Why You Should Care as a Medical Professional
When Wed, August 5, 2020, 7:30am – 8:30am
Dr. Mirielle Truong

Pre-gestational Diabetes Mellitus/Gestational Diabetes Mellitus
When Wed, August 5, 2020, 8:30am – 9:30am
Dr. Tanise Branche

M&M – GYN (Heterotopic Pregnancy)
When Wed, August 12, 2020, 7:30am – 8:30am
Dr. Sravanthi Gutta (PGY3)

Macrosomia
When: Wed, August 12, 2020, 8:30am – 9:30am
Dr. Tanise Branche

Surgical Site Infection: Definitions, Pathophysiology and Prevention
When: Wed, August 19, 2020, 7:30am – 8:30am
Dr. Juan Diaz

Thyroid Disease in Pregnancy
When Wed, August 19, 2020, 8:30am – 9:30am
Dr. Tanise Branche

Simulation Lab
When Wed, August 26, 2020, 7:30am – 10:30am
Dr. Arleen Ayala

Surgical Care of the Transgender Patient
When Wed, September 2, 2020, 7:30am – 8:30am
Dr. Andrew Gassman

Gestational Hypertension and Preeclampsia
When Wed, September 2, 2020, 8:30am – 9:30am
Drs. Hart and Mulla

M&M: OB (Post-Partum Hemorrhage)
When Wed, September 9, 2020, 7:30am – 8:30am
Dr. Richa Pursnani (PGY3)
Thromboembolism in Pregnancy & Inherited Thrombophilias in Pregnancy
When Wed, September 9, 2020, 8:30am – 9:30am
Drs. Tanise Branche & Leah Roberts

SIM
When Wed, September 16, 2020, 7:30am – 10:30am
Dr. Arleen Ayala

Conducting Research with Pregnant Women (faculty only)
When Wed, September 16, 2020, 7:30am – 8:30am
Jacquie Wright, MA & David Comalli, PhD

Surgery Grand Rounds
When Wed, September 23, 2020, 7:30am – 10:30am

Neural Tube Defects
When Wed, September 30, 2020, 8:00am – 9:00am
Dr. Julee Choi

New Ultrasound Training
When Wed, September 30, 2020, 9:00am – 10:00am
Jessica Montanez, Ultrasound Manager

Holistic Review in Resident Education
When Wed, October 7, 2020 7:30am – 8:30am
Dr. Oneida Arosarena

Managing Menopausal Symptoms
When Wed, October 7, 2020, 8:30am – 9:30am
Dr. Tanise Branche

Hand Expression Education
When Wed, October 14, 2020, 7:30am – 8:30am
Stephanie Brown, IBCLC

Urinary Incontinence in Women & Fecal Incontinence
When Wed, October 14, 2020, 8:30am – 9:30am
Dr. Carol Glowacki

Ectopic Pregnancy
When Wed, October 21, 2020, 7:30am – 8:30am
Dr. Juan Diaz

Pelvic Organ Prolapse
When Wed, October 21, 2020, 8:30am – 9:30am
Dr. Avita Pahwa

SIM Lab
When Wed, October 28, 2020, 7:30am – 10:30am
Dr. Arleen Ayala

Genital Complaints in Young Girls: A Review of Pediatric Gynecology
When Wed, November 4, 2020, 7:30am – 8:30am
Dr. Nicole Karjane

Chronic Pelvic Pain
When Wed, November 4, 2020, 8:30am – 10:30am
Dr. Claire Faggons

M&M: OB-Uterine Rupture and Cesarean Hysterectomy
When Wed, November 11, 2020, 7:30am – 8:30am
Dr. Tiffany Gee, (PGY3)

CREOG Review: GYN
When Wed, November 11, 2010, 8:30am – 9:30am
Dr. Juan Diaz

Gestational Trophoblastic Disease
When Wed, November 18, 2020, 7:30am – 8:30am
Dr. Enrique Hernandez
**Interview Day**

Journal Club
When Wed, November 25, 2020, 7:30am – 8:30am
Drs. Arielle Caplin & Allison Swiecki-Sikora (PGY2)

CREOG Review: GYN ONCOLOGY
When Wed, November 25, 2020, 8:30am – 9:30am
Dr. Jocelyn Ray (PGY7-Gyn Onc Fellow)

Management of Opioid Withdrawal and Overdose
When Wed, December 2, 2020, 7:30am – 8:30am
Dr. Laura Hart
**Interview Day**

Exploring the Origins of Ovarian Cancer
When Wed, December 7, 2020, 7:30am – 8:30am
Dr. Amaranta Craig (PGY6 – Gyn Onc Fellow)
Isador Forman Lecture – “Why Do We Spend So Much On Prescription Drugs”
Guest Speaker: Dr. David Guzick
When Wed, December 7, 2020, 11:00am – 12:00am

M&M: Preeclampsia with Severe Features
When Wed, December 9, 2020, 7:30-8:30
Dr. Richa Pursnani (PGY3)

CREOG Review: Urogynecology
When Wed, December 9, 2020, 8:30-9:30
Dr. Carol Glowacki

Fertility Preservation
When Wed, December 16, 2020, 7:30am – 8:30am
Dr. Arthur Castelbaum
**Interview Day**

University Holiday – Cancelled
When Wed, December 23, 2020

University Holiday - Cancelled
When Wed, December 30, 2020

Bladder and Ureteral Injuries During Gynecologic Surgery
When Wed, January 6, 2021 7:30am – 8:30am
Dr. Juan Diaz
**Interview Day**

CREOG Review – Updates in REI
When Wed, January 13, 2021 7:30am – 10:30am
Dr. Arthur Castelbaum

SIM
When Wed, January 20, 2021 7:30am – 10:30am
Dr. Arleen Ayala

Electrosurgery
When Wed, January 27, 2021 7:30am – 8:30am
Dr. Magdy Milad

GME Wellness Time
When Wed, February 3, 2021 7:30am – 10:30am
Rank List
When Wed, February 10, 2021 7:30am – 9:30am
Dr. Stacey Jeronis

M&M: GYN-Vaginal Cuff Dehiscence
When Wed, February 17, 2021 7:30am – 8:30am
Dr. Alexandra LeBental (PGY3)

Cytomegalovirus, Parvovirus, Varicella Zoster, and Toxo in Pregnancy
When Wed, February 17, 2021 8:30am – 9:30am
Dr. John FitzSimmons

SIM
When Wed, February 24, 2021 7:30am – 10:30am
Dr. Arleen Ayala

Journal Club – Discrimination & Racism
When Wed, March 3, 2021 7:30am – 8:30am
Dr. Oneida Arosarena & Dr. Karl Whitley

Intrapartum Fetal Heart Rate Monitoring & Management of Intrapartum Fetal Tracings
When Wed, March 3, 2021 8:30am – 9:30am
Dr. Marisa Rose

M&M – Perinatal HSV
When Wed, March 10, 2021 7:30am – 8:30am
Dr. Angela Liu, Dr. Mossabeb & Dr. Heidi Taylor

Prediction and Prevention of Preterm Birth & Management of Preterm Labor
When Wed, March 10, 2021 8:30am – 9:30am
Dr. Juan Diaz

Implicit Racial Bias in Birthing and Reproductive Care Training
When Wed, March 17, 2021 7:30am – 8:30am
Dr. Zahada Gillette-Pierce

Pre-labor Rupture of Membranes & Induction of Labor
When Wed, March 17, 2021 8:30am – 10:30am
Dr. Nishanth Sidduri

SIM
When Wed, March 24, 2021 7:30am – 10:30am
Dr. Arleen Ayala
Strategies for Physician Wellness  
When Wed, March 31, 2021 7:30am – 8:30am  
Dr. Roschanak Mossabeb

External Cephalic Version & Operative Vaginal Birth  
When Wed, March 31, 2021 8:30am – 9:30am  
Dr. Tanise Branche

Endometriosis  
When Wed, April 7, 2021 7:30am – 8:30am  
Dr. Patricia Mattingly

Alternatives to Hysterectomy in the Management of Leiomyomas  
When Wed, April 7, 2021 8:30am – 9:30am  
Dr. Justin Gamez

M&M– OB  
When Wed, April 14, 2021 7:30am – 8:30am  
Dr. Tiffany Gee

Prevention of Infection After Gynecologic Procedures  
When Wed, April 14, 2021 8:30am – 9:30am  
Dr. Divya Chillapalli

Quality and Safety  
When Wed, April 21, 2021 7:30am – 8:30am  
Dr. Juan Diaz

Surgical Video Workshop  
When Wed, April 21, 2021 8:30am – 10:30am  
Dr. Patricia Mattingly & Dr. Isabel Eisner

SIM  
When Wed, April 28, 2021, 7:30am – 10:30am  
Dr. Arleen Ayala

Mentorship, Intersectionality & Promoting Allyship  
When Wed, May 5, 2021 7:30am – 8:30am  
Dr. Francesca Polite (UofP)

Cervical Cancer Screening and Prevention  
When Wed, May 5, 2021 8:30am – 9:30am  
Gyn Onc Fellow
M&M
When Wed, May 12, 2021 7:30am – 8:30am
Dr. Sravanthi Gutta

Management of Abnormal Cervical Cancer Screening & Cervical Cancer Precursors
When Wed, May 12, 2021 8:30am – 9:30am
Dr. Jocelyn Ray (PGY7 – proctor)

SIM
When Wed, May 19, 2021 7:30am – 10:30am
Dr. Arleen Ayala

Spring Resident Research Day
When Wed, May 26, 2021 7:30am – 9:30am

Journal Club
When Wed, June 2, 2021 7:30am – 8:30am
Dr. Kelly Harmon & Dr. Cory Johnson

Management of Endometriosis
When Wed, June 2, 2021 8:30am – 9:30am
Dr. Patricia Mattingly

Implicit Racial Bias in Birthing and Reproductive Care Training – Part 2
When Wed, June 9, 2021 7:30am – 8:30am
India Blunt and Shannon Crostini

Long Acting Reversible Contraception/Implants & IUDs/Emergency Contraception
When Wed, June 9, 2021 8:30am – 9:30am
Dr. Shaliz Dolan

Residency Program Review/Welcome Class of 2025 & Thank You Class 2021
When Wed, June 16, 2021 7:30am – 9:30am
Dr. Stacey Jeronis

Breast 101: Benign Breast Problems and Overview of Breast Imaging
When Wed, June 23, 2020 7:30am – 8:30am
Dr. Mary Pronovost & Dr. Renee Kendzierski

Introduction to Education/Download Google Calendar/Introduction to GYN Clinic
When Wed, June 23, 2021 8:30am – 9:30am
VI. CLINICAL PROGRAMS

A. DIVISIONS REPORT

1. Gynecologic Oncology

The Division of Gynecologic Oncology at Temple University Hospital Main Campus counts with two board-certified gynecologic oncologists: Karen L. Houck, MD, FACOG and Enrique Hernandez, MD, FACOG, FACS. The Division counts with two oncology nurses and two part-time medical assistants. In addition to the gynecologic oncologists, an Ob/Gyn colposcopist staffs the Division’s colposcopy clinic. The mission of the Division is to provide comprehensive care to women with malignant and premalignant gynecologic conditions within the Temple Health Care System in partnership with our colleagues at Temple’s Fox Chase Cancer Center. At the Cancer Center site there are five board-certified gynecologic oncologists (Drs. Stephen Rubin, Christina Chu, Cynthia Bergman, Stephanie King and Gina Mantia-Smaldone). The gynecologic oncologists perform surgery ranging from minimally invasive (including robotic-assisted) to radical surgery (including intestinal and urological). Difficult or high-risk surgery for benign gynecologic pathology is also performed, as well as laser surgery of the lower genital tract.

Clinical

At Temple University Hospital-Main the Division utilizes two days (Tuesdays and Thursdays) in the operating room for open surgery and 1-2 days (Mondays and Fridays) for robotic-assisted surgery. There are now 3 double console Da Vinci Xi robots at Temple University Hospital-Main Campus. There is a robotic surgery training center in the medical school with 2 Da Vinci Si robots. These are available to all trainees. In FY21 we performed 38 robotic-assisted surgical procedures at Temple University Hospital and 23 at Chestnut Hill Hospital. The Division of Gynecologic Oncology provides outpatient and inpatient chemotherapy for women with gynecologic cancers. Almost 300 chemotherapy treatment cycles were administered to women with gynecologic cancer at the Temple University Hospital-Main Campus in FY21. The
Division of Gynecologic Oncology cooperates with the radiation oncologists in providing radiation therapy to women with gynecologic malignancies. On any given week there are approximately one-half dozen women receiving radiation therapy for gynecologic malignancies. We perform the placement of the hardware for gynecologic high-dose rate brachytherapy in conjunction with the radiation oncologists. We perform difficult intrauterine implants under ultrasound guidance. Nine Smit sleeves as a conduit for high-dose rate brachytherapy were placed in FY21.

The Division has separate Colposcopy and Tumor Clinics. The Colposcopy Clinic meets on Monday afternoon on the 3rd floor of the hospital Zone C. Approximately 12-14 patients are seen at each clinic session. The clinic is staffed by the gynecologic oncologists and by an obstetrician/gynecologist experienced in colposcopy. A weekly multidisciplinary conference reviews colposcopy clinic cases. We also have every other Friday morning session where the senior resident on the oncology service discusses with the patients the Pap smear diagnosis, biopsy results, and treatment plans as established by the Division faculty. In FY19 the Forman family donated colposcopy equipment that allows us to project the field being inspected to large high-resolution monitor and to save the examination images to the patient record. This not only allows for better documentation of the examination, but also greatly facilitates the training of our medical students, residents and fellows. Cryocautery continues to be used in the clinic to treat cervical dysplasia when appropriate. However, the residents are exposed to all the modern diagnostic and treatment modalities to include laser, LEEP, and conization. The Tumor Clinic meets on Friday afternoon at the Temple University Hospital-Main Campus Cancer Center (4th floor Ambulatory Care Center). This provides the patients who are undergoing cancer therapy with on-site laboratory, pharmacy, social work support, genetic counselling, nutrition evaluation and counselling, and infusion capabilities.

The gynecologic oncologists also see patients in Zone B of Temple University Hospital-Main Campus, one-half day session a week. Even though the bulk of the clinical efforts of the Division are at Temple University Hospital-Main Campus, consultation services are also provided at Holy Redeemer Hospital and at Chestnut Hill Hospital. The Division is able to provide excellent care to over 50 patients each week at the above mentioned sites. There were 190 surgical procedures performed at Temple University Hospital-Main Campus by the gynecologic oncologists in FY21. Of these, 131 were major surgical procedures for gynecologic cancer or suspected gynecologic malignancy. Additional procedures were performed at Chestnut Hill Hospital (33 major surgical procedures, 23 were robotically assisted) and Holy Redeemer Hospital (20 major surgical procedures).

**Education**

As of the spring of 2017 third-year medical students can elect to spend two weeks on the Gynecologic Oncology Service at Temple University Hospital-Main Campus or at Temple’s Fox Chase Cancer Center. At Temple University Hospital-Main Campus teaching/work rounds by the attending staff with the residents and the students are
consistently done every day. The students are assigned patients to follow. They present and discuss their patients on rounds. The Division’s faculty gives at least two formal lectures to the third-year medical students during each block. The Division Faculty gives at least one grand rounds lecture per quarter. The Division continues to have a weekly multidisciplinary gynecologic tumor board. All active cases are presented and discussed including patients receiving chemotherapy and/or radiation therapy. This is a teaching/working conference with participation of residents and students. On the first Thursday of every month the Division holds a system-wide Tumor Board conference with our colleagues at the Temple’s Fox Chase Cancer Center campus.

A senior resident (PGY-4) and a PGY-2 are assigned to a 10-week rotation on the gynecologic oncology service at Temple University Hospital-Main Campus. Our residents participate not only in the surgical management of women with gynecologic malignancies, but also are involved in the administration of chemotherapy, the placement of hardware for brachytherapy and the surgical and medical management of complications due to the malignancy or its therapy. The residents, students and fellows are assigned two textbook chapters to read each week and a quiz and discussion is held every Friday. Third-year Ob/Gyn residents spent two 5-week blocks at the Fox Chase campus where they enhance their educational experience by exposure to more surgical cases and the care of hospitalized patients with complex medical situations. In FY21 there were 7209 chemotherapy infusions for the treatment of gynecologic malignancies at Temple’s Fox Chase Cancer Center. In FY21 624 operations were performed by the gynecologic oncologists at the Fox Chase Cancer Center. Of these 424 were major surgical procedures to include 87 abdominal hysterectomies, 166 laparoscopic assisted vaginal hysterectomies and 25 robotic-assisted total laparoscopic hysterectomies. There were seven brachytherapy applications.

In FY15 the American Board of Obstetrics and Gynecology approved our application to establish a 3-year gynecologic oncology fellowship at Temple. In FY17 we successfully transitioned our fellowship to accreditation by the American Council on Graduate Medical Education (ACGME). The fellowship program takes advantage of the resources and strengths of Temple University and Temple University Health System that includes Temple University Hospital-Main Campus and Temple’s Fox Chase Cancer Center. The fellows (one per year) spend one year doing research and two years on the clinical services. Dr. Christina Chu, who is based at the Fox Chase campus, is the director of the fellowship program. Dr. Karen Houck, who is based at the Temple University Health Sciences campus is the associate director. In addition to the seven board-certified gynecologic oncologists on our faculty, the fellowship program is fortunate to have faculty from the departments of pathology, radiation oncology, medical oncology, medical genetics, radiology, surgery, biostatistics and epidemiology. In addition, the fellows have access to research mentors who are members of the Fox Chase Cancer Center research enterprise or from Temple’s Fels Institute for Cancer Research and Molecular Biology. The fellows also have access to the vast academic and research resources of Temple University. If they so desire, during their fellowship, they can work toward a Master in Science degree.
Research

We continue to actively participate in NIH-funded (GOG/NRG) cooperative clinical trials, industry-sponsored and investigator initiated clinical trials

OVARIAN CANCER

19-1002/ VB-111-701 MIRASOL: Mirvetuximab Soravtansine vs. Chemotherapy in Gynecological Cancers

(Platinum-resistant disease - PD (per CT) within 90-180 days from completion of a minimum of 4 platinum therapy cycles (calculated from last dose to the day of PD).

18-1042/ 3000-03-005 TSR-042 and Niraparib for First Line Treatment of Advanced Ovarian Cancer

(All stage IV eligible- Stage III eligible if: had CC0 with aggregate 5 cm extra-pelvic disease during PDS that infiltrates bowel, diaphragm, liver capsule, spleen, pancreas or stomach; inoperable disease has macroscopic residual tumor after PDS; NACT is planned 3)

ENDOMETRIAL CANCER

19-1030/ 338-IIT-088/ 18-0567 Rucaparib vs. Placebo Maintenance Therapy in Metastatic and Recurrent Endometrial Cancer

(Primary stage III/IV or recurrent endometrial cancer, Min 1-Max 2 prior lines of cytotoxic therapy (including hormonal), CR or PR following most recent therapy, 2 cohorts: endometriod v.serous/other(carcinosarcoma)

19-1035/ 4010-03-001 Dostarlimab+Carboplatin-paclitaxel vs Placebo+Carboplatin-paclitaxel in Endometrial Cancer

(Advanced or first recurrent endometrial cancer with low potential for cure by radiation or surgery. Excludes recurrence within 6 months of prior NACT/adjuvant chemo, prior IO therapy, platinum hypersensitivity).
CERVICAL CANCER

18-1083/ GCT1015-05 Tisotumab Vedotin (HuMax-TF-ADC) +/- Other Agents for Recurrent or Stage IVB Cervical Cancer

(Squamous, adenosquamous, or adenocarcinoma of the cervix and progressed on or after standard of care treatments or are ineligible or intolerant to standard of care for recurrent or stage IVB cervical cancer)

OTHER

18-1048/ DCC-2036-01-003 Rebastinib +/- Paclitaxel for advanced or Metastatic Solid Tumors

The following articles were published in full or abstract form in FY21 by members of the gynecologic oncology faculty:


Future Plans

- Recruit top candidates for the fellowship program
- Maintain or increase the number of clinical trials that are available at both sites
- Increase the number of presentations at national and regional meetings, as well as the number of publications
2. Maternal-Fetal Medicine

*MFM Activities*

Temple Prenatal Diagnosis Center

Temple University Hospital has a long-standing Prenatal Diagnosis Center that provides comprehensive prenatal diagnosis, and treatment for high-risk pregnancies. The Prenatal Diagnosis Center operates 5 days a week and is staffed by attending perinatologists. It is supplemented by a full-time perinatal nurse and one-part time perinatal nurse, six ultrasonography technicians and support staff. The Prenatal Diagnosis Center provides comprehensive maternal fetal medicine and genetic consultations for high-risk pregnancies within the Temple University Health System and from a number of other referring clinics. We have five state of the art ultrasound machines including a newly purchased portable machine. These machines are fully capable of providing 3-D imaging as needed and performing advanced Doppler assessments. The Center achieved continued accreditation through the American Institute of Ultrasound in Medicine (AIUM). Temple University Fetal Center is also a clinical training site for Thomas Jefferson ultrasound training program.

During 2020-21, we performed a total of 16,718 ultrasound procedures in the Fetal Center at TUH, an 8 and 9 % increase over FY 19 and FY20, respectively (2090 anatomy ultrasound examinations, 839 first trimester nuchal translucency, 1586 transvaginal ultrasounds, 123 fetal echocardiograms, 17 invasive prenatal diagnosis procedures, and an additional 5537 otherwise classified as depicted on Chart 1).

The Prenatal Diagnosis Center also provides comprehensive antenatal testing and consultative services around timing of delivery in complicated pregnancies. A total of 4472 antenatal tests (biophysical profile/non-stress test) were provided over the last year. One thousand one hundred and twenty-two umbilical artery Doppler studies were performed to aid in the management of intrauterine growth restriction. Also 108 middle cerebral artery Doppler flow studies were performed to assist in the diagnosis of fetal anemia and twin-twin transfusion syndrome.

Perinatal Genetics

Perinatal genetics is an integral part of the Maternal Fetal Medicine division, and is imbedded in our prenatal diagnosis unit. Genetic services were provided by a board-certified genetic counselor, Ms. Janet Ober Berman, MS, LCGC and Ms. Caroline Bong MS LCGC. Mid-year Ms. Berman resigned and we hired Ms. Gabrielle Eisenberg MS LCGC, May 2021. The program provides and disseminates genetic information, coordinates screening for genetic disorders of the mother and fetus and provides genetic counseling to the obstetric and pre-conception patients as needed. The most frequent genetic problems encountered include advanced maternal age, abnormal maternal serum screening, history of genetic syndromes and abnormal ultrasound findings. Two thousand six hundred and fifty-one patients received genetic testing and genetic counseling through Temple University Hospital’s services in 2020-2021. Charts 2 and 3 illustrate our genetic services.
The perinatal genetics and fetal treatment program includes procedures such as amniocentesis, chorionic villus sampling, multifetal reduction and percutaneous umbilical blood sampling (PUBS). Less of these procedures are being performed nationwide due to the availability of non-invasive prenatal diagnosis. Seventy invasive prenatal tests including amniocentesis and chorionic villus sampling were performed in FY 21. PUBs and selective reduction and multifetal reduction remain available. In the fiscal year, 1849 patients received non-invasive prenatal diagnosis (NIPT). Few patients opted for sequential screen. Paternity testing is also available in collaboration with the DNA Diagnostic Laboratory.

Educational activities include training of medical students, OB/GYN residents and genetic counseling interns. Temple’s perinatal genetic program was a clinical training site for University of Pennsylvania’s Masters of Genetic Counseling program.

MFM Satellite Activities
The MFM division continues to work with the satellite ultrasound sites at the Episcopal and the Northeastern Campuses (Chart 4). In 2020-2021 1333 obstetrical ultrasounds have been performed at those sites (694 at Episcopal and 419 Northeastern Ambulatory Care Center) and read by members of the MFM Division. These sites are available for first trimester ultrasound, first trimester screening in low-risk patients under the age of 35, low-risk anatomy ultrasound examinations in patients with a BMI <35, and growth evaluations. High-risk ultrasounds and antenatal testing continue to be performed exclusively at Temple University Hospital on Broad Street.

In addition, we provide coverage services for the Maternal Fetal Medicine at Holy Redeemer Hospital. We plan to expand those services as the need arises at Holy Redeemer Hospital.

Obstetric Service

In the 2020-21 Fiscal Year:
- Total Deliveries 2251
- Our primary cesarean is appropriate at 19.1%
- Our overall cesarean rate has increased to 33.2%.

Chart 5 shows the annual number of deliveries at Temple University Hospital from FY2003 to present. Chart 6 shows the mode of delivery of infants delivered at Temple University Hospital in FY 21. Charts 7 through 9 depict the number and types of visits of obstetrical patients seen at our main sites (Residents Clinic at 3rd floor Zone C, and Temple Faculty Physicians at Temple University Hospital 7th floor Zone B, Roxborough, Episcopal and Northeastern). The total number of new obstetrical patients seen in FY21 at all our sites was 1960. Chart 10 compares the number of obstetrical visits in FY21 to FY20. Charts 11 and 12 demonstrate the origin of the obstetrical patients delivered at Temple University Hospital in 2020-21. Chart 12 also shows that the proportion of adolescent mothers delivered at TUH has dramatically decreased (it was 6.3% in FY 21.
compared to 6.6% in FY20, 7.6% in FY19, 6.5% in FY18, 7.6% in FY17, 10% in FY16 and 16.9 in FY06.

The Maternal Fetal Medicine division supervises the high-risk patients of the obstetrical service.

**Obstetrics and MFM Education**

Medical students- All third year medical students rotating through Temple University Hospital spend two weeks on the obstetrics service. They are exposed to the maternal fetal medicine service through rotations to the high-risk clinics and inpatient rounds. While on this rotation, they are expected to integrate themselves with the health care teams with assignments in the inpatient and out-patient care areas. The medical students are expected to follow patients, write comprehensive notes, and participate in procedures including deliveries. Their educational experience is through formal and informal didactics from MFM faculty and residents, morning rounds, chapter reviews, journal clubs, and grand rounds. Fourth year medical students can also choose to spend elective time in an MFM rotation. The fourth year MFM elective includes exposure to prenatal ultrasound examinations, high-risk patients with a variety of medical or obstetrical complications, procedures including deliveries, and didactics. The students upon the completion of their rotation are expected to be familiar with the most common high-risk conditions such as preterm labor, premature rupture of membranes, hypertensive disorders of pregnancy, basic prenatal diagnosis, and principles of management.

Resident education-The residents are required to rotate through the Maternal Fetal Medicine service. A PGY 3 and PGY1 resident are assigned to Maternal Fetal Medicine and are responsible for admitting, follow-up, and management of high-risk inpatients under the direction of the MFM specialist covering the service. The residents also see patients in the MFM clinics on Tuesday and Thursdays. Mondays and Fridays, the residents undergo ultrasound training at the Prenatal Diagnosis Center. The PGY 1 and PGY3 also observes and/or participates in prenatal diagnosis and treatment procedures. We continue to provide a formal training program for transvaginal ultrasound with an online course and image verification required for certification. By the end of the rotation the PGY3 is expected also to be able to perform a basic anatomic evaluation and an accurate transvaginal ultrasound. The PGY1 is expected to be able to measure fetal biometry, perform a biophysical profile and evaluate amniotic fluid. The Maternal Fetal Medicine faculty provides formal and informal lectures in the field of high-risk obstetrics and perinatology. Morbidity and mortality conferences are conducted bimonthly along with the neonatology services and subspecialist from St Christopher Hospital. Obstetric testing scores increased significantly this year for the Ob/Gyn residents.
Faculty and Research Activities

Each Maternal Fetal Medicine attending has a particular area of research interest. The medical students and residents are encouraged to participate in the many clinical and basic science research activities in the division. The diverse field of interest is illustrated below:

Dr. Laura Hart

Dr. Hart is the Medical director of Temple Center of Excellence for Opioid treatment. Dr. Hart is continuing to conduct research with opioid dependent pregnant women who will participate in a state-funded treatment program. She is currently Co PI evaluating a personalized platform for management by characterizing opiate use and habit forming behavior in patients undergoing repeat C-section. Dr. Hart is also Co PI sponsored by NIH in a study that aims at decreasing opioid misuse and habit-forming behaviors following opioid prescription in patients undergoing Cesarean Section.

She continues to be site Co-Principal Investigator for the Perinatal Research Consortium (PRC). Temple participates in multiple clinical trials through the PRC. Within this consortium, Dr. Hart was the site PI on a research project on morbidly adherent placentas, which was presented at the Society of Maternal Fetal Medicine Annual meeting in 2021.

Dr. Hart’s other research efforts can be found in the Research section of this report (Section III).

Dr. Wadia Mulla

Dr. Mulla is the Principal Investigator for the all the PRC studies. She is the Temple University site PI for the Medical Optimization of Management of Type 2 Diabetes Complicating Pregnancy (MOMPOD). She is also the PI for Prospective Collection of Whole Blood Specimens from Pregnant Women at Any Risk of Fetal Chromosomal Anomaly for the Development of a Noninvasive Prenatal Test. In addition to current research programs, she has been active in applying for grants including two PCORI grants.

Her research interests are in approaches to decreasing racial bias in obstetrical care, obesity, gestational diabetes and glucose metabolism. In addition, she has taken an active role in collaborative programs among the Philadelphia Birth Hospitals.

Resident Mentees:
Molli Bascom: VTE in diverse populations
Shira Saperstein and Alexandra Lebental: obesity and diabetes in pregnancy
Tiffany Gee: Gestational diabetes
Dr. Jack Fitzsimmons

Dr. Fitzsimmons joined the division of Maternal Fetal Medicine in FY21. He provides research support to the residents. His interest is in the use of 17-OH progesterone for the prevention of preterm birth.

Faculty Mentorship

The Maternal Fetal Medicine faculty works with the junior faculty in the department to aid in their academic development. The physicians meet with faculty members yearly to review their CV, focus their goals, prepare their case lists and aid them in making academic connections.

The future of Maternal Fetal Medicine at Temple

The goals of the Maternal Fetal Medicine Division for the next fiscal year are:

a. Continue participation in the Perinatal Research Consortium and develop a robust research program involving faculty and residents.
b. Continue to implement evidence-based obstetric and MFM practice protocols in the high- and low-risk obstetric clinics and on labor and delivery.
c. Continue to participate in systems analysis for patient safety goals for labor and delivery

d. Continue to increase the volume of obstetric ultrasounds at the Prenatal Diagnosis Center and increase patient satisfaction.
e. Continue our work as a Center of Excellence in the care of pregnant women with opioid use disorders
f. Establish MFM consulting services at Holy Redeemer Hospital
g. Continue to work with the Philadelphia Labor and Delivery Leaders to help to standardize best practices throughout the City of Philadelphia.
h. Continue participation in Pennsylvania Perinatal Quality Collaborative (PA PQC) to decrease maternal mortality and morbidity with focus on Postpartum Hemorrhage, Hypertensive disorders, Maternal Opioid use disorders and neonatal abstinence syndrome, and racial disparities in obstetrical care quality bundles.

3. Gynecology & General Obstetrics

The Division of Gynecology and General Obstetrics is committed to advancing women’s health care using the latest and most advanced technology available. Part of our mission is to include our patients as an integral component of the decision-making process.

Faculty

Dr. Juan J. Diaz is the director of the Division. The other full-time faculty physicians are: Drs. Arleen Ayala, Tanise Branche, Bruce Carnivale, Julee Choi, Divya Chillapalli,
Gloria Diaz, Shaliz Dolan, Michelle Duncan, Isabel Eisner, Justin Gamez, Gail Herrine, Stacey Jeronis, Bruce Mabine, Patricia Mattingly, and Marisa Rose.

The department has been lucky to recruit 3 new faculty members: Dr. Kylee Clyatt, a graduate from the Perelman School of Medicine, she completed her residency at the Lankenau Medical Center. Dr. Jessie Huff got her medical degree from the University of New England College of Osteopathic Medicine and completed her residency at the Geisinger Medical Center, and Dr. Samantha So, who completed medical school and residency at Cooper University and Cooper Hospital. We were able to incorporate into our practice Drs. Debra Somers and Gail Sullivan, who are well established and respected physicians in the Philadelphia area that were under the TPI group.

Adjunct Faculty: Drs. Deslyn Mancini, Faith Pullinger, Nishanth Sidduri, Henry Su, and Clinton Turner.

Another exciting announcement for our department is that we recently started the midwifery program. Midwives approach pregnancy as a normal process, they are trained to empower mothers through nurturing relationships. We welcomed Kathleen M. Nishida PhD, CNM, RN; Melissa Landon, CNM, NP; and Kristen Yoh, MSN, CNM, WHNP-BC who are joining Emma Dorsey, CNM, CRMP, IBCLC to fully launch the program. The midwives will assist in the Low-Risk Obstetrics Clinic, Faculty Practice, Family Planning Clinic, Labor & Delivery, and in the post-partum unit.

Dr. Claire Faggons has left our department to go into private practice. Deborah Appleyard, nurse midwife, retired.

Clinical

The members of this Division see patients at multiple sites, which include: Family Planning Clinic (8th Floor, TUH Out-Patient Building), 7th Floor TUH Zone B Faculty Practice, 3rd Floor TUH Zone C, Roxborough (Jamestown Medical Office Building), Temple Health at Fort Washington, Episcopal, Northeastern, Bustleton, and Jeanes Campus offices.

In addition, we see patients referred to Temple for inpatient management from clinics located throughout the city such as Greater Philadelphia Health Action, Esperanza Health Center, and Delaware Valley Community Health clinics.

The general gynecological inpatient service team is constituted by an attending physician (service attending), a PGY4, PGY3, PGY2, two interns, the rotating third year medical students, and a fourth year medical student. This team is responsible for managing gynecological emergency cases, performing elective surgery on patients from the family planning clinic, and caring for these patients post operatively. This team also serves as a consultant for gynecological cases to other departments within our institution.
Surgical Volume for the Benign Gynecology, Urogynecology, and Gynecologic Oncology Services

In FY21 the entire department performed 1,276 surgical procedures in Temple university Hospital, 117 more surgical cases than in FY20 (9% increase).

Patient Safety

Patient safety is one of the key issues prioritized by the Institute of Medicine as critical for effective health care delivery. Creating a more robust safety program is essential as we build a busier surgical program with more surgeons, with varying levels of experience.

Minimally Invasive Surgery (MIS): As a department we promote the use of minimally invasive technology. As we know, the patients undergoing minimally invasive surgery tend to have a faster recovery and less complications than patients having open surgery. The rate of minimally invasive surgery for major procedures went from 70% to 77% in 1
year, and from 54% to 77% in 6 years due to the hiring of physicians with expertise in MIS.

**Early Recovery After Surgery (ERAS) protocol:** We are participants of the Safety Program for Improving Surgical Care and Recovery (ISCR), a program implemented by the American College of Surgeons and the Johns Hopkins Medicine Armstrong Institute of Patient Safety and Quality. Through this program we collect process measures such as Foley removal, post op intake of liquids, local wound anesthesia, post op mobilization, multi modal pain management, and postop VTE prophylaxis which are intrinsic components of the ERAS protocol. After we started tracking and working on the aforementioned process measures of the ERAS protocol we were able to reach the ISCR of 80% compliance rate in all of them. The improvement in clinical care through the ERAS protocol and the increased number of minimally invasive procedures have caused a drop in the length of stay and clinical outcomes.

**Length of Stay:** The LOS dropped from 2.89 to 2.62 days (total improvement of 9.34%) for open procedures, and from 1.70 to 1.52 days (total improvement of 10.59%) for minimally invasive procedures excluding robotic procedures, and an improvement of 23.50% for robotic procedures from the FY 2020 to 2021.

Through March 31st, the decrease in the LOS and improvement in clinical variables were translated to savings of $837 for the outpatient hysterectomies and myomectomies, and
$523 for the inpatient procedures. These changes have accounted for thousands of dollars in savings to the health care system. We were able to accomplish these numbers working as a team doing physician education, working with the nursing staff, the staff from performance improvement, the Epic staff, Senior VP and CCO, business intelligence, pre-admission testing director, and the director of the operative services. The ERAS committee will continue to meet to monitor the clinical variables.

### GYN Clinical Variables

To keep track of our surgical outcomes we utilize the National Surgical Quality Improvement Program (NSQIP) database for hysterectomies and myomectomies. The information is risk adjusted data, and it is collected from our hospital and other major teaching institutions throughout the country (more than 700 participating institutions). It gives us the opportunity of comparing our outcomes against a large database. All the safety indicators were within the expected rate for the NSQIP data for the entire department. For benign gynecology, the morbidity rate was 2.80%, which is considered “exemplary” by NSQIP.

<table>
<thead>
<tr>
<th></th>
<th>Average Variable Cost</th>
<th>FY 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY 2020</td>
<td>(Through March 31)</td>
</tr>
<tr>
<td><strong>Outpatient</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hysterectomy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non - Robotic</td>
<td>$4,301</td>
<td>$3,587</td>
</tr>
<tr>
<td>Robotic</td>
<td>5,233</td>
<td>4,311</td>
</tr>
<tr>
<td><strong>Hysterectomy Total</strong></td>
<td>4,840</td>
<td>4,024</td>
</tr>
<tr>
<td><strong>Myomectomy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non - Robotic</td>
<td>7,276</td>
<td>2,979</td>
</tr>
<tr>
<td>Robotic</td>
<td>3,131</td>
<td>2,402</td>
</tr>
<tr>
<td><strong>Myomectomy Total</strong></td>
<td>3,960</td>
<td>2,546</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>$4,796</td>
<td>$3,959</td>
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<table>
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<tr>
<td></td>
<td>FY 2020</td>
<td>(Through March 31)</td>
</tr>
<tr>
<td><strong>Inpatient</strong></td>
<td></td>
<td></td>
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<tr>
<td>Robotic Surgery for Uterine and Adnexa</td>
<td>7,394</td>
<td>6,037</td>
</tr>
<tr>
<td>Uterine and Adnexa Proc (Not Open)</td>
<td>4,613</td>
<td>5,158</td>
</tr>
<tr>
<td>Uterine and Adnexa Proc (Open)</td>
<td>6,184</td>
<td>5,443</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>$5,921</td>
<td>$5,398</td>
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NSQIP patient Safety Quality Indicators. Targeted cases, year 07/01/2019-06/30/2020 for Benign Gynecology, Urogynecology, and Gynecologic Oncology Services

<table>
<thead>
<tr>
<th>187 cases</th>
<th>Observed events</th>
<th>Observed rate</th>
<th>Expected rate</th>
<th>Odds</th>
<th>95% C.I lower</th>
<th>95% C.I upper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morbidity</td>
<td>8</td>
<td>4.28%</td>
<td>6.54%</td>
<td>0.77</td>
<td>0.46</td>
<td>1.28</td>
</tr>
<tr>
<td>Ventilator &gt;48 h</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urinary infections</td>
<td>2</td>
<td>1.07%</td>
<td>2.26%</td>
<td>0.76</td>
<td>0.38</td>
<td>1.54</td>
</tr>
<tr>
<td>Surgical Site Infection</td>
<td>6</td>
<td>3.21%</td>
<td>3.69%</td>
<td>0.91</td>
<td>0.49</td>
<td>1.70</td>
</tr>
<tr>
<td>Return to the OR</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Readmission</td>
<td>4</td>
<td>2.14%</td>
<td>3.76%</td>
<td>0.88</td>
<td>0.58</td>
<td>1.32</td>
</tr>
</tbody>
</table>

**Preference Cards:** In collaboration with the perioperative services staff, we have also standardized all the surgical preference cards for benign GYN to improve efficiency and to promote cost savings. Now, the compliance rate is above 85% and 92% for open and laparoscopic hysterectomies, respectively.

**Education**

Medical students:

All third-year medical students assigned to Temple University Hospital spend two weeks in the general gynecological inpatient service. Teaching/work rounds are directed every day by an assigned attending physician. The students are assigned their own patients to follow. They present and discuss the patients during rounds.
Each third year medical student rotating through our department pairs up with an attending physician for one-half day a week providing the medical student with direct one to one instruction.

The core division’s faculty gives at least one formal lecture to the third-year medical students during each block. The medical students also participate during surgical procedures.

Residents:

We follow an educational curriculum for the residents which involves weekly faculty-led discussions of the most relevant topics in the field of General Gynecology.

During these discussions the residents learn the principles of preventive health, family planning, and the medical treatment of gynecologic conditions.

We also have a faculty-supervised pre-operative clinic, where the chief resident on the Gynecology Service evaluates and counsels patients before proceeding with surgical treatment. The residents act as a first- or second- assistant during gynecological procedure according to the complexity of the case. Every resident also participates in the daily teaching/work rounds.

Our residents this year scored above the national average in their In-Service exam in the area of Gynecology and Office. This year they scored 6 points above the national average in the GYN section of the exam.

Action Plan FY 2022

For this upcoming year a great part of our effort will be dedicated to continue the integration of the Jeanes Hospital OBGYN section to our department. The intention is to conduct a seamless transition and hopefully increase the surgical and outpatient volume at the Jeanes Campus. The newly hired physicians will spend time at the Jeanes Campus in the inpatient and outpatient setting. With these new additions we are confident that we will broaden the range of management options that are offered to our patients in this location. Increasing the total volume of surgeries would allow our department to bring our residents to rotate through Jeanes Hospital.

We will continue to build and organize the midwifery service.

The department will continue to track the ERAS protocol variables.

This year we will begin tracking obstetrical safety variables, the report will be generated from the Vizient Clinical Data Base. The variables are the following: adverse events due to anesthesia, post-partum hemorrhage, post-partum infection, readmissions, and obstetric trauma rate with vaginal delivery with instrument.
4. Female Pelvic Medicine and Reconstructive Surgery

Carol Glowacki, MD, FACOG is the Director of the Section of Female Pelvic Medicine and Reconstructive Surgery (FPMRS), also known as urogynecology. She joined the Temple faculty in September, 2012. The year 2020 saw the addition of Avita Pahwa, M.D. to the division. Both Dr. Pahwa and Dr. Glowacki specialize and maintain board certification in problems of the female pelvic floor and reconstructive pelvic surgery. These include bladder dysfunction (urinary frequency, urgency and incontinence), pelvic organ prolapse, fecal incontinence, pelvic pain, vulvar pain (vulvodynia or vulvar vestibulitis), painful bladder syndrome (interstitial cystitis), urinary tract infections, hematuria, genito-urinary fistulas, and sexual dysfunction. Following appropriate evaluation and testing, treatment options are discussed and implemented. Treatment options may include medications, physical therapy, pessaries (vaginal support devices) and surgery. Surgical options include outpatient, abdominal, vaginal, minimally invasive and robotic-assisted approaches, depending on the needs and preferences of the patient. The Section of Female Pelvic Medicine and Reconstructive Pelvic Surgery at Temple often emphasizes a minimally invasive, transvaginal surgical approach to female pelvic floor dysfunction, but also offers abdominal approaches. Dr. Pahwa is expert in robotic approaches to pelvic floor reconstruction, enhancing the offerings of the division to patients. Additionally, sacral neuromodulation, utilizing a technology similar to a pacemaker, is approved for treating patients with overactive bladder, urinary retention or fecal incontinence. Botox injections at different sites in the bladder are used and effective in treating bladder symptoms in patients with neurological disorders, as well as refractory overactive bladder.

Dr. Glowacki sees patients at Temple University Hospital, in both the Gynecology clinic and Urology clinics, Jeanes Hospital, and Center City Philadelphia. Dr. Pahwa sees patients at Temple University Hospital, sharing time between the Department of Gynecology and Obstetrics, and the Department of Urology. The clinical and surgical volume was decreased this year, largely impacted by the COVID Pandemic. Prior to the pandemic, the office at Temple University Hospital and Jeanes had increased patient slots to accommodate more patients and decrease prolonged wait times for both new and follow up appointments. The addition of Dr. Pahwa has decreased wait times for appointments to under 4 weeks, in general at Temple. Dr. Glowacki operates at Temple University Hospital and Jeanes Hospital. Dr. Pahwa operates at Temple with both the departments of Gynecology and Urology. The surgical volume for female pelvic reconstruction has generally rebounded to nearly pre-pandemic volumes, and is anticipated to consistently grow, largely in part due to the addition of Dr. Pahwa.

A second year (PGY 2) or fourth year (PGY4) gynecology resident is assigned to the Female Pelvic Medicine and Reconstructive Surgery (FPMRS) service and shares time with both Dr. Glowacki and Dr. Pahwa. The Obstetrics and Gynecology and Urology residents are exposed to the evaluation of the patients with pelvic floor disorders and this frequently includes cystoscopy, urodynamics and other procedures. The residents are exposed to the medical therapy of pelvic floor disorders and to complex pelvic floor
reconstruction procedures. The Obstetrics and Gynecology residents and the Urology residents are involved in the Female Pelvic Medicine and Reconstructive Surgery cases to broaden their exposure to the surgical aspect of the field. Additionally, fourth year students and third year medical students rotate on to the FPMRS service for sub-internships and FPMRS clinic, respectively. Several months of the year, a fourth year medical student on the Women’s Health Rotation also spends time in the FPMRS clinic. Both Dr. Glowacki and Dr. Pahwa actively participate in resident and medical student education.

Looking ahead to FY22, the schedules are being assessed at all clinic sites to maximize patient appointment and resident exposure. A licensed practical nurse has been added to perform urodynamic studies and posterior tibial nerve stimulation commencing August, 2020. Additionally, it will increase the availability of clinic slots for both follow up and new patients on these days. As noted, we are already seeing an increase in medical and surgical cases with the addition of Dr. Pahwa. We anticipate a continued positive trajectory in the clinical and surgical volume as Dr. Pahwa expands her patient volume. Additionally, we are looking to enhance our academic output, particularly as we have a few residents looking to pursue careers in Female Pelvic Medicine and Reconstructive Surgery.

5. Reproductive Endocrinology and Infertility

PGY-4 and PGY-2 residents spend three days each week in the outpatient offices and In Vitro Fertilization center of Drs. Castelbaum and Freedman, Co-Directors of The Division of Reproductive Endocrinology and Infertility. Residents gain proficiency in performing vaginal ultrasonography for the evaluation of ovarian follicles, endometrial thickness, and uterine anomalies. Residents also perform many first trimester pregnancy ultrasounds. They evaluate and treat pregnancies of unknown location and ectopic pregnancies.

PGY-4 and PGY-2 residents participate in the initial evaluation of infertile couples. The resident integrates history, physical findings, ultrasonographic images and laboratory data in formulating a differential diagnosis and establishing an evidenced-based treatment plan.

PGY-4 and PGY-2 residents are exposed to evidence based ovulation induction protocols including clomiphene citrate, aromatase inhibitors, gonadotropins, gonadotropin agonists, gonadotropin antagonists, and luteal phase estradiol priming. They become proficient in interpreting ultrasound and hormonal data in order to maximize pregnancy rates while minimizing the risks of high order multiple gestations and ovarian hyperstimulation syndrome.

Residents have a comprehensive exposure to In Vitro Fertilization (IVF). They are actively involved in the evaluation of patients undergoing IVF and embryo transfer. They gain experience in pre-IVF assessment including ovarian reserve testing, uterine
evaluation and semen analysis interpretation. Residents also are exposed to IVF ovulation induction regimens tailored to patient’s unique infertility issues. Residents attend oocyte retrievals and embryo transfers. They also observe IVF laboratory procedures including ICSI, embryo biopsy, laser assisted hatching, embryo/oocyte cryopreservation and embryo/oocyte thawing. Residents participate in outpatient diagnostic hysteroscopies and mock embryo transfers. They are exposed to thoughtful evidenced-based patient counseling to minimize the number of embryos transferred and lower the risk of multiple gestations. More than fifty-percent of IVF patients elect to have their embryos biopsied at the blastocyst stage Pre-Implantation Genetic Screening for Aneuploidy (PGT-A). Transfer of a single euploid embryo has resulted in implantation rates of 55 to 60% in women up to age 42. Trainees also gain experience in interpreting pre-implantation genetic results.

At the conclusion of their rotation, it is expected that PGY-4 and PGY-2 Resident will be capable of managing all aspects of the initial work-up of infertile patients. They should also be proficient in managing ovulation induction with oral medication, and gain experience in performing transvaginal ultrasonography.

Drs. Castelbaum and Freedman give a total of eight Grand Round lectures annually for the Department of Obstetrics, Gynecology and Reproductive Sciences. Drs. Castelbaum and Freedman also lecture third year medical students during their Obstetrics and Gynecology rotation. Fourth-year medical students can take advantage of a 4-week elective in Reproductive Endocrinology and Infertility (REI) with Drs. Castelbaum and Freedman. Four to seven senior medical students rotate annually. Their experience mirrors that of the 3rd and 4th year Residents. The students taking this elective are required to present one formal talk on a REI topic. Multiple first-year medical students also shadow Drs. Castelbaum and Freedman for an initial exposure to evidenced-based infertility treatment.

Dr. Castelbaum was part of a research team investigating the impact of embryo biopsy for Pre-implantation Genetic Testing for Aneuploidy (PGT-A). The work demonstrated for the first time that genetically abnormal embryos have almost no possibility of developing into normal children, strengthening the validation for this important IVF innovation.


6. Administration

Revenue/Expenses:

The faculty productivity through June 2021 was at 67.85 percentile of the MGMA benchmark, adjusted for clinical FTEs. The Department’s revenue and expense through June was very favorable, with a 25% positive variance to budget. However, we
certainly felt the impact of the pandemic and 5 vacant faculty(APP) positions, ending the year with negative variances to budget in charges (-8%), payments (-13%) and visits (-9%). RVUs were 4% favorable compared with FY20.

**Staffing:**

- 23 Clerical/secretarial staff
- 34 Clinical staff
- 9 Advanced Practice Providers
- 10 Administrative staff
- 1 Research staff
- 2 Genetic Counselors
- 1 Academic Education administrator

Total staff: 80

January 1, 2021 all staff transferred employment from Temple University to Temple University Health System. This required new onboarding of all of our staff. We have recently begun to recruit to fill our vacancies. Vacancies accounted for approximately 19% of our total staffing.

**Accomplishments:**

- Expanded our successful Center of Excellence for Opioid addicted pregnant women in collaboration with the Temple Health Trust Program, to include all Temple Health locations and patients who qualify. The Trust Program is a grant funded service providing medication-assisted treatment, peer-counseling along with case-management services.

- IT updates: Continued to improve and streamline the EPIC EMR for OB/GYN services, as well as supported TUH with the interface between GE Viewpoint software for the Prenatal Diagnosis Center and the EPIC EMR.

- Continued our association with the McKesson Group for outsourced appointment scheduling, working closely with all representatives to monitor activity daily to ensure patient needs are met.

- Planned for the transfer of three Temple Physician, Inc. GYN offices over to our department. This includes the expansion of OB, GYN and GYN surgeries at the Temple University Hospital Jeanes Campus. Recruited two new faculty members to join and support this service.

- Continued our social media campaign with marketing department support, targeting women in the communities surrounding the offices on the Episcopal and Northeastern campuses.
• Expanded our Gender Affirming services collaborating with a clinical multidisciplinary team.

• Expanded our Midwifery Service, successfully recruiting for three additional midwives for a total of four. This will allow for day coverage in Labor & Delivery, Maternity and additional outpatient practice opportunities.

VII. SERVICE

The Department of Obstetrics, Gynecology and Reproductive Sciences is involved in a variety of community service activities. A few of these activities are described below:

A. COMMUNITY OUTREACH EVENTS

1. Unfortunately, there were no health fairs due to the pandemic restrictions.

2. Largest hospital team to participate in the annual Delaware Valley NOCC (National Ovarian Cancer Coalition) virtual event. September 26, 2020

3. In the News:

   Dr. Arleen Ayala: Al Dia, August 27, 2020 – The importance of breastfeeding in the Latinx Community

   Dr. Juan Diaz: Al Dia, January 4, 2021 – Recognized by Al Dia as one of the publication’s Top Doctors.

   Dr. Isabel Eisner and Dr. Patricia Mattingly: May 31, 2021 – Moves in Medicine: Treatment Option for Uterine Fibroids.

   Dr. Gina Mantia-Smaldone: 6ABC-TV, November 23, 2020 – Post-menopausal bleeding.

   Dr. Suzanne Miller: Temple Health News Digest, October 2020 – Preventing cigarette smoking relapse in urban, underserved women after they have given birth.

   Dr. Wadia Mulla:

      a. Philly Voice, July 24, 2020: More women are choosing to delay having children until their 40’s – but the choice isn’t without risks.


Dr. Stephen Rubin: MD Alert, September 30, 2020 – Findings on the HPV vaccine substantially reducing a woman’s risk of developing cervical cancer.

B. FAMILY PLANNING

1. Family Planning Services Grant through Access Matters – In FY2021, Temple GYN/Family Planning Clinic had a total of 8,675 visits. Of this, 72% (6,234) were family planning visits. The majority of our family planning patients served were between 20-29 years of age (51%), and at or below 100% of the federal poverty line. These statistics support the need for our Title X program, to allow patients access to quality, comprehensive reproductive health care, regardless of economic status.

2. The Breast and Cervical Cancer Prevention and Treatment (BCCPT) is a breast and cervical cancer early detection program that provides free clinical breast examinations, mammograms, pelvic exams, Pap Smears, education, and follow-up diagnostic care for abnormal results for uninsured and underinsured women 21-64 years of age. The BCCPT program was introduced in 2002 as a funding source for women whose cancer screenings showed breast or cervical cancer or pre-cancerous conditions. The BCCPT program expedites a fast track Medical Assistance application approval, providing the patient full coverage for all treatment within five days of the application date. The BCCPT program also supports other departments in the Temple Health System, including Diagnostic Imaging, Surgery, and Colposcopy Clinic. Our department has been a recipient of this funding for over 20 years. In FY2021, Temple GYN/Family Planning Clinic met our enrollment goal by serving 58 patients under the BCCPT program.

3. Routine HIV Screening and Quick Start Method for Contraception. We provide opt-out annual HIV screenings to all GYN/family planning patients, per the requirements of the Title X program. Additionally, we continue to make available rapid HIV screenings to family planning patients via the 60-second INSTI® test, along with the following services: linkage to care and treatment for HIV positive clients, and for at-risk clients, counseling and
referrals for PrEP, condom distribution, and annual STI screening and treatment.

Since 2014, we implemented the “Quick Start Method” for contraception services. The term “quick start” means starting hormonal contraception at the time a woman requests contraception rather than waiting for her next menstrual cycle, as long as a provider is reasonably certain that the woman is not currently pregnant or at risk for pregnancy. Starting contraception immediately, rather than waiting for the next menses, may theoretically reduce the time a woman is at risk for pregnancy; prevent her forgetting information on correct use of the method; prevent waning enthusiasm for the method and use of a less reliable alternative method; and reduce client costs and barriers to returning for contraception (e.g. transportation, time, childcare). Therefore, the quick start method might be expected to reduce unintended pregnancy rates by improving initiation and continuation of contraceptives compared to conventional start methods. Several studies have addressed this hypothesis.

4. Satellites operating under the Family Planning umbrella. Student Health Services (operated by Student Health), provides family planning services, STI testing and treatment, PrEP, and gynecologic examinations to Temple University students. There were 2,850 family planning visits in FY21.

C. OTHER

Cord blood previously collected at TUH, and maintained by The New Jersey Cord Blood Bank, was used to treat two patients. One diagnosed with Acute Myelogenous Leukemia, and the other with Deficiency & Neutropenia.

D. FACULTY INTRA- AND EXTRA-INSTITUTIONAL SERVICE

The faculty participate on a number of intra- and extra-institutional committees. These include:

Dr. Ayala
   Director L&D laboratory
   Director Ob/Gyn Clinical Simulation
   Director, Family Planning Clinic
   Faculty advisor, medical students Ob/Gyn interest group
   Ob/Gyn Department Education Committee
Ob/Gyn Residency Clinical Competency Committee

Dr. Branche
Ob/Gyn Department Education Committee
OB/Gyn Residency Clinical Competency Committee
Graduate Medical Education Committee
Faculty Advisor for Medical Students Ob/Gyn Interest Group
Teaching Faculty Internal Medicine Residency Ambulatory Subspecialty Experience in Ob/Gyn

Dr. Chillapalli
Transfusion Committee
Admissions (2021-22)

Dr. Carnivale
TUH OR Committee

Dr. Juan Diaz
American Board of Obstetrics and Gynecology Examiner
Robotic Surgery Committee
Operations Committee, Temple Faculty Physicians
OR Executive Committee
eCare Ambulatory Steering Committee
Peer Review
Residency Clinical Competency Committee
Ob/Gyn Research Committee
Ob/Gyn Department Education Committee
President Society of Ibero-Latin American Medical Professionals
SASGOG Finance Committee
SASGOG Quality Improvement & Patient Safety Task Force
Medical School Admissions Committee (effective FY21)

Dr. Dolan
OB/Gyn Residency Clinical Competency Committee
Ob/Gyn Department Education Committee

Dr. Duncan
Ob/Gyn Department Education Committee
Director, Ob Triage

Dr. Faggons
Epic physician champion

Dr. Glowacki
OB/Gyn Residency Clinical Competency Committee
“GtN” Rounds
Ob/Gyn Department Education Committee
Philanthropy Committee
Advisor to Medical Students for Choice

Dr. Hart
Residency Clinical Competency Committee
LGBTQ Alliance Task Force
Centers of Excellence Obstetrics Education Committee (City-Wide)
Temple University Substance Abuse Task Force
Faculty Advisor for Medical Students Ob/Gyn interest group
Ob/Gyn Research Committee
OD Stat: Philadelphia Department of Public Health Opioid Overdose Fatality Review Committee
Philadelphia Fetal and Infant Mortality Review (FIMR) Committee
Pennsylvania Perinatal Collaborative

Dr. Herrine
TUH Perinatal Core Measures (Chair)
TUH Baby Friendly Steering Committee (Chair)
TUH Breastfeeding Task Force
TUH PI/Patient Safety
TUH OB Relationship Building
TUH OB PI Committee (co-chair)
TUH Baby Friendly Policy Committee (Chair)
School of Medicine LGBTQ Alliance Task Force
Ob/Gyn Research Committee
Ob/Gyn Department Education Committee
Philadelphia Multihospital Task Force
American College of Obstetricians and Gynecologists (ACOG)’s Breastfeeding Expert Workgroup
ACOG’s Representative to the United States Breastfeeding Committee
Board of Directors, Academy of Breast Feeding Medicine

Dr. Houck
OB/Gyn Residency Clinical Competency Committee
Robotic Surgery Committee
Associate Director Gyn Oncology Fellowship

Dr. Jeronis
Claims Committee
Peer Review Committee
Medical School Admissions Committee
Practitioner Wellness Committee (Chair)
Temple AOA Chapter Student Selection Committee
Department Appointments and Promotions (Chair)
Ob/Gyn Research Committee
Ob/Gyn Department Education Committee

Dr. Mulla
Vice Chair, Medical Staff Credentials Committee
PI/Patient Safety
Ob/Gyn Department Education Committee
Ob/GYN Research Committee
Philadelphia Maternal Mortality Review
Pennsylvania Perinatal Collaborative
Philadelphia Labor and Delivery Leaders Committee
Pennsylvania Resource Council

Dr. Rose
IRB
Student Learning Environment and Appeals Committee
Interviewer for Admissions Committee
Endocrine/Reproductive Organ Systems Review Committee
Clerkship Directors Committee
Temple Health Provider Reputation Committee
OB/Gyn Residency Clinical Competency Committee
Residency Wellness Committee
Departmental Appointments and Promotions Committee
Education and Curriculum Committee
Graduate Medical Education Committee
Physicians Assistants Program
Ob/Gyn Department Education Committee
Medical Faculty Senate, Buildings and Facilities Committee

Dr. Hernandez

Women and Infants Patient Experience Committee
Diversity Council
Curriculum Committee
Chair, Temple Faculty Physicians Practice Education Committee
Temple Faculty Physicians Council of Chairs
American College of Surgeons
  Regent
  Finance Committee
  Task Force on Racial Issues
  Research and Optimal Patient Care Committee
  Diversity, Equity and Inclusion Committee
  Member Services Pillar of Board of Governors
American Cancer Society, Philadelphia Area
  Board Member
  Mission Committee
Pennsylvania Medical Society
House of Delegates
Philadelphia County Medical Society
Board Member
Nominations Committee
Budget and Finance Committee
Bylaws Committee
College of Physicians of Philadelphia
Board of Directors member
Admission to Fellowship Committee
Society of Gynecologic Oncology
Membership Committee

VIII. PUBLICATIONS AND PRESENTATIONS (FY21)

A. PUBLICATIONS

Publications July 1, 2020 to June 30, 2021


Pahwa AK, Khanijow KD, Harvie HS, Arya LA, Andy UU. Comparison of patient impact and clinical characteristics between urgency and passive fecal incontinence phenotypes. Female Pelvic Med Reconstr Surg 2020 (Sep);26:570-574. (https://doi.org/10.1097/SPV.0000000000000603) PMID: 29979355


**Diaz Quinones JJ.** A 40-year-old woman with no spill from her left ureter on postoperative cystoscopy after total laparoscopic hysterectomy with bilateral alpingectomy, In: Surgical Gynecology, L Keder, A Famuyide, K Gecsi, D Chelmow ed., Cambridge Press, 233-234, 2021

Simoncini GM, Koren DE, D'Avanzo PA, **Diaz Quinones J;** Brajuha J, Bass SB, Experience with PrEP: Survey among IM and Ob/Gyn Faculty and Residents (abstr). *J Gen Intern Med* 2020 (Jul);35:S123


B. PRESENTATIONS (Extramural)

Presentations July 1 2020 to June 30, 2021


Herrine G. Baby Friendly hospital initiative, New vision for postpartum care: the fourth trimester and medications and mother's milk. 2-hour Grand Rounds, Geisinger Medical Center Department of OB/Gyn, Dansville, PA (virtual), April 4, 2021


Herrine G. Breastfeeding: what every OB should know. Grand Rounds, Department of Ob/Gyn, Christiana Medical Center, Wilmington, DE (virtual), October 28, 2020


# IX. CONTACT INFORMATION

Chairman’s Office  
(215) 707-3002

Practice Locations:

<table>
<thead>
<tr>
<th>Location</th>
<th>Contact Information</th>
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| **Faculty OB/GYN Practice**                  | Temple University Hospital  
7th Floor, Zone B  
3401 N Broad St  
Philadelphia, PA 19140  
Appointments: (215) 707-3008 |
| **Temple General OB/GYN Practice Satellite Locations:** | Episcopal Campus  
100 E. Lehigh Avenue, CHC 2  
Philadelphia, PA 19125  
Appointments: (215) 707-1840 |
| **Gynecologic Oncology**                     | Temple University Hospital  
7th Floor, Zone B  
3401 N Broad St  
Philadelphia, PA 19140  
Appointments: (215) 707-3015 |
| **GYN/Family Planning Clinic**               | Temple University Hospital  
8th Floor, Zone B  
3401 N Broad St  
Philadelphia, PA 19140  
Appointments: (215) 707-3323 |
| **Fort Washington**                          | 515 Pennsylvania Avenue  
Fort Washington, PA 19041  
Appointments: (215) 707-3008 |
| **Holy Redeemer Hospital**                   | Holy Redeemer Medical Office Bldg.  
1650 Huntingdon Pike, Suite 118  
Meadowbrook, PA 19046  
Appointments: (215) 707-3015 |
| **Maternal-Fetal Medicine Consultation**     | Temple University Hospital  
3rd Floor, Zone C  
3401 N Broad St  
Philadelphia, PA 19140  
Appointments: (215) 707-3008 |
| **Jeanes Campus**                            | Stapeley Building, Suite 201  
7602 Central Avenue, Suite 201  
Philadelphia, PA 19140  
Appointments: 215-745-8989 |
| **Temple Cancer Center**                     | 3401 N. Broad Street  
4th Floor, Zone D  
Philadelphia, PA 19140  
Appointments: (215) 707-3015 |
| **Prenatal Diagnosis Center**                | Northeast  
9331 Old Bustleton Ave. Suite 203  
Philadelphia, PA 19125  
Appointments: (215) 562-8900 |
| **Colposcopy Clinic**                        | Temple University Hospital  
3rd Floor, Zone C  
3401 N Broad St  
Philadelphia, PA 19140  
Appointments: (215) 707-3008 |
| **Reproductive Endocrinology and Infertility** | Reproductive Medicine Associates of Philadelphia (RMA of Philadelphia)  
Appointments: 215-938-1515 |
| **Urogynecology**                            | Temple University Hospital  
7th Floor, Zone B  
6th Floor, Zone E  
3401 N Broad St  
Philadelphia, PA 19140  
Appointments: (215) 707-3008 |
| **Northeastern Campus**                     | Northeast  
2301 E. Allegheny Ave. Ste. 180  
Philadelphia, PA 19134  
Appointments: (215) 926-3700 |
| **Reproductive Endocrinology and Infertility** | Reproductive Medicine Associates of Philadelphia (RMA of Philadelphia)  
Appointments: 215-938-1515 |
| **Temple Health – Jeanes Campus**           | 7602 Central Avenue  
Suite 201  
Philadelphia, PA 19111  
Appointments: (215) 707-3008 |
| **Roxborough**                               | Jamestown Medical Building  
Suite 107  
525 Jamestown Avenue  
Philadelphia, PA 19128  
Appointments: (215) 483-7700 |
| **Center City Office**                       | Medical Arts Tower  
255 S. 17th Street  
21st Floor, Suite 2101  
Philadelphia, PA 19103  
Appointments: (215) 707-3008 |
Chart 1. Procedures performed at Temple’s Prenatal Diagnosis Center in FY21

TOTAL = 16,718
Chart 2. Genetic screening and counseling visits at Temple University Hospital FY13-FY21 (includes non-invasive prenatal testing)
Chart 3. Indications for Genetic Screening and Counseling FY21 (AMA = Advanced Maternal Age)

FY21 other include (some patients had more than one indication):
- Abnormal carrier screen: 167
- Recurrent pregnancy losses: 16
- Other: 15
- Non-invasive prenatal testing: 1845
Chart 5. Obstetrical Deliveries at Temple University Hospital

Chart 6. Mode of Delivery at Temple University Hospital FY21
(CMI of C-section patients 1.07 in FY19 vs. 1.13 in FY21)

Total Deliveries: 2251
Chart 7. New Obstetrical patients (low-risk) seen at the Residents Clinic

Chart 8. Total obstetrical visits at the Residents Clinic
Chart 9. Outpatient obstetrics: High-Risk (HR), and low-risk obstetrical visits at Temple Faculty Physician Practices FY21
Chart 10. Obstetrical visits at all sites FY20 vs FY21
Chart 11. Deliveries at Temple University Hospital by referral source FY21
Chart 12. Site of prenatal care of patients delivered at Temple University Hospital and number of teenage mothers.

*Proportion of adolescents delivering at TUH was 6.3% in FY21 compared to 10% in FY16 and 16.9% in FY06.